

Spacecraft

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REVISION HISTORY

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Contents

1	Spacecraft	1
1.1	Index of Spacecraft	1
1.2	Able 1	7
1.3	Able 4	7
1.4	Able 5A	7
1.5	Able 5B	8
1.6	Apollo 7	8
1.7	Apollo 8	8
1.8	Apollo 9	8
1.9	Apollo 10	8
1.10	Apollo 11	8
1.11	Apollo 12	9
1.12	Apollo 13	9
1.13	Apollo 14	9
1.14	Apollo 15	9
1.15	Apollo 16	9
1.16	Apollo 17	9
1.17	Cassini	9
1.18	Clementine	10
1.19	Explorer 33	10
1.20	Explorer 35	10
1.21	Explorer 49	10
1.22	Galileo (spacecraft)	10
1.23	Giotto	10
1.24	Helios 1	10
1.25	Helios 2	11
1.26	Hiten	11
1.27	ICE (International Cometary Explorer)	11
1.28	Kosmos 21	11
1.29	Kosmos 27	11

1.30 Kosmos 60	11
1.31 Kosmos 96	11
1.32 Kosmos 111	12
1.33 Kosmos 146	12
1.34 Kosmos 154	12
1.35 Kosmos 167	12
1.36 Kosmos 300	12
1.37 Kosmos 305	12
1.38 Kosmos 382	12
1.39 Kosmos 419	13
1.40 Kosmos 482	13
1.41 Luna 1	13
1.42 Luna 2	13
1.43 Luna 3	13
1.44 Luna 4	13
1.45 Luna 5	13
1.46 Luna 6	14
1.47 Luna 7	14
1.48 Luna 8	14
1.49 Luna 9	14
1.50 Luna 10	14
1.51 Luna 11	14
1.52 Luna 12	14
1.53 Luna 13	15
1.54 Luna 14	15
1.55 Luna 15	15
1.56 Luna 16	15
1.57 Luna 17	15
1.58 Luna 18	15
1.59 Luna 19	15
1.60 Luna 20	16
1.61 Luna 21	16
1.62 Luna 22	16
1.63 Luna 23	16
1.64 Luna 24	16
1.65 Lunar Orbiter 1	16
1.66 Lunar Orbiter 2	16
1.67 Lunar Orbiter 3	17
1.68 Lunar Orbiter 4	17

1.69 Lunar Orbiter 5	17
1.70 Magellan	17
1.71 Mariner 1	17
1.72 Mariner 2	17
1.73 Mariner 3	17
1.74 Mariner 4	18
1.75 Mariner 5	18
1.76 Mariner 6	18
1.77 Mariner 7	18
1.78 Mariner 8	18
1.79 Mariner 9	18
1.80 Mariner 10	18
1.81 Mars 1	19
1.82 Mars 2	19
1.83 Mars 3	19
1.84 Mars 4	19
1.85 Mars 5	19
1.86 Mars 6	19
1.87 Mars 7	19
1.88 Mars 96	20
1.89 Mars 98	20
1.90 Mars 1969A & Mars 1969B	20
1.91 Mars Observer	20
1.92 Mars Pathfinder	20
1.93 Mars Surveyor	20
1.94 Phobos 1	20
1.95 Phobos 2	21
1.96 Pioneer 1	21
1.97 Pioneer 2	21
1.98 Pioneer 3	21
1.99 Pioneer 4	21
1.100Pioneer 6	21
1.101Pioneer 7	21
1.102Pioneer 8	22
1.103Pioneer 9	22
1.104Pioneer 10	22
1.105Pioneer 11	22
1.106Pioneer 12 (Pioneer Venus)	22
1.107Pioneer E	22

1.108Pluto Fast Flyby	22
1.109Ranger 3	23
1.110Ranger 4	23
1.111Ranger 5	23
1.112Ranger 6	23
1.113Ranger 7	23
1.114Ranger 8	23
1.115Ranger 9	23
1.116Sakigake	24
1.117Sputnik7	24
1.118Suisei	24
1.119Surveyor 1	24
1.120Surveyor 2	24
1.121Surveyor 3	24
1.122Surveyor 4	24
1.123Surveyor 5	25
1.124Surveyor 6	25
1.125Surveyor 7	25
1.126Ulysses	25
1.127Unannounced spacecraft	25
1.128Vega 1 & 2	25
1.129Venera 1	25
1.130Venera 2	26
1.131Venera 3	26
1.132Venera 4	26
1.133Venera 5	26
1.134Venera 6	26
1.135Venera 7	26
1.136Venera 8	26
1.137Venera 9	27
1.138Venera 10	27
1.139Venera 11	27
1.140Venera 12	27
1.141Venera 13	27
1.142Venera 14	27
1.143Venera 15	27
1.144Venera 16	28
1.145Viking 1	28
1.146Viking 2	28

1.147Voyager 1	28
1.148Voyager 2	28
1.149Zond 1	28
1.150Zond 2	28
1.151Zond 3	29
1.152Zond 4	29
1.153Zond 5	29
1.154Zond 6	29
1.155Zond 7	29

Chapter 1

Spacecraft

1.1 Index of Spacecraft

More detailed information is available for the following spacecraft:

Probe -----	Date launched -----	Object(s) studied -----
Able 1	Aug. 17/58	Moon
Able 4	Nov. 26/59	Moon
Able 5A	Sep. 25/60	Moon
Able 5B	Dec. 15/60	Moon
Alouette 1		Earth satellite
Alouette 1 Rocket/Body		Earth satellite
Alouette 2 Rocket/Body		Earth satellite
AMPTE Rocket/Body		Earth satellite
Apollo 7	Oct. 11/68	Earth orbit
Apollo 8	Dec. 21/68	Moon
Apollo 9	Mar. 3/69	Earth orbit
Apollo 10	May 18/69	Moon
Apollo 11	Jul. 16/69	Moon
Apollo 12	Nov. 14/69	Moon
Apollo 13	Apr. 11/69	Moon
Apollo 14	Jan. 31/71	Moon
Apollo 15	Jul. 26/71	Moon
Apollo 16	Apr. 16/72	Moon
Apollo 17	Dec. 7/72	Moon
Astro 3		Earth satellite
Atmosphere 1		Earth satellite
Atmosphere 2		Earth satellite
Cassini	Oct. 6/97	Saturn
Centaur 2		Earth satellite
Clementine	Jan. 25/94	Moon
COBE		Earth satellite
Comstar 1 Rocket/Body		Earth satellite
Copernicus (OAO 3)		Earth satellite
Copernicus (OAO 3) Rocket/Body		Earth satellite
Cosmos 382		Earth satellite
Cosmos 398		Earth satellite
Cosmos 825-832 Rocket/Body		Earth satellite
Cosmos 871-878 Rocket/Body		Earth satellite
Cosmos 939-946 Rocket/Body		Earth satellite

Cosmos 1051-1058	Rocket/Body	Earth satellite
Cosmos 1076		Earth satellite
Cosmos 1130-1137	Rocket/Body	Earth satellite
Cosmos 1151		Earth satellite
Cosmos 1171	Rocket/Body	Earth satellite
Cosmos 1320-1327	Rocket/Body	Earth satellite
Cosmos 1473-1480	Rocket/Body	Earth satellite
Cosmos 1500		Earth satellite
Cosmos 1522-1529	Rocket/Body	Earth satellite
Cosmos 1602		Earth satellite
Cosmos 1603		Earth satellite
Cosmos 1635-1642	Rocket/Body	Earth satellite
Cosmos 1697		Earth satellite
Cosmos 1697	Rocket/Body	Earth satellite
Cosmos 1745	Rocket/Body	Earth satellite
Cosmos 1794-1801	Rocket/Body	Earth satellite
Cosmos 1833		Earth satellite
Cosmos 1833	Rocket/Body	Earth satellite
Cosmos 1844		Earth satellite
Cosmos 1844	Rocket/Body	Earth satellite
Cosmos 1852-1859	Rocket/Body	Earth satellite
Cosmos 1861		Earth satellite
Cosmos 1900		Earth satellite
Cosmos 1924-1931	Rocket/Body	Earth satellite
Cosmos 1934	Rocket/Body	Earth satellite
Cosmos 1943		Earth satellite
Cosmos 1943	Rocket/Body	Earth satellite
Cosmos 1954	Rocket/Body	Earth satellite
Cosmos 1980		Earth satellite
Cosmos 1980	Rocket/Body	Earth satellite
Cosmos 2004		Earth satellite
Cosmos 2004	Rocket/Body	Earth satellite
Cosmos 2008-2015	Rocket/Body	Earth satellite
Cosmos 2016		Earth satellite
Cosmos 2016	Rocket/Body	Earth satellite
Cosmos 2026		Earth satellite
Cosmos 2026	Rocket/Body	Earth satellite
Cosmos 2027		Earth satellite
Cosmos 2034		Earth satellite
Cosmos 2034	Rocket/Body	Earth satellite
Cosmos 2037	Rocket/Body	Earth satellite
Cosmos 2046		Earth satellite
Cosmos 2056		Earth satellite
Cosmos 2056	Rocket/Body	Earth satellite
Cosmos 2058		Earth satellite
Cosmos 2060		Earth satellite
Cosmos 2061		Earth satellite
Cosmos 2061	Rocket/Body	Earth satellite
Cosmos 2064-2071	Rocket/Body	Earth satellite
Cosmos 2074		Earth satellite
Cosmos 2075	Rocket/Body	Earth satellite
Cosmos 2082		Earth satellite
Cosmos 2082	Rocket/Body	Earth satellite
Cosmos 2084		Earth satellite
Cosmos 2084	Rocket/Body	Earth satellite
Cosmos 2098	Rocket/Body	Earth satellite
Courier 1-B	Rocket/Body	Earth satellite

CRRES		Earth satellite
Delta Star		Earth satellite
DMSP 2-3		Earth satellite
DMSP 2-4		Earth satellite
DMSP 2-5		Earth satellite
Echo 2 Rocket/Body		Earth satellite
EGP/AJISAI		Earth satellite
EGP Rocket/Body		Earth satellite
ERBS		Earth satellite
Exosat Rocket/Body		Earth satellite
Explorer 33	Jul. 1/66	Moon
Explorer 35	Jul. 19/67	Moon
Explorer 49	Jun. 10/73	Sun
Feng Yun 1-A		Earth satellite
Feng Yun 1-B		Earth satellite
Feng Yun 1-B Rocket/Body		Earth satellite
Fltsatcom 4 Rocket/Body		Earth satellite
Galileo	Oct. 18/89	Venus, Earth, Moon, Gaspra, Ida, Jupiter, Io, Ganymede, Callisto, Europa
Gamma		Earth satellite
Geosat		Earth satellite
Giotto	Jul. 2/85	Comet Halley, Comet Grigg-Skjellerup
Goes 3 Rocket/Body		Earth satellite
Goes 6 Rocket/Body		Earth satellite
GPS 2-4 Rocket/Body		Earth satellite
GPS 2-5 Rocket/Body		Earth satellite
GPS 2-6 Rocket/Body		Earth satellite
GPS 2-10 Rocket/Body		Earth satellite
Helios 1	Dec. 10/74	Sun
Helios 2	Jan. 15/76	Sun
Hiten	Jan, 1990	Moon
Hubble Space Telescope		Earth satellite
ICE	Aug. 12/78	Sun, Earth, Comet Giacobini-Zinner
Inmarsat 2-1 Rocket/Body		Earth satellite
Intelsat 4-1 Rocket/Body		Earth satellite
Intelsat 4A-1 Rocket/Body		Earth satellite
Intelsat 5-1 Rocket/Body		Earth satellite
Intelsat 5-3 Rocket/Body		Earth satellite
Intelsat 6-3		Earth satellite
Intercosmos 19 Rocket/Body		Earth satellite
Intercosmos 24		Earth satellite
Intercosmos 24 Rocket/Body		Earth satellite
IRAS		Earth satellite
IRAS Rocket/Body		Earth satellite
JCSAT 2 Rocket/Body		Earth satellite
Kosmos 21	Nov. 11/63	Venus
Kosmos 27	Mar. 26/64	Venus
Kosmos 60	Mar. 12/65	Moon
Kosmos 96	Nov. 23/65	Venus
Kosmos 111	Mar. 1/66	Moon
Kosmos 146	Mar. 10/67	Moon
Kosmos 154	Apr. 8/67	Moon
Kosmos 167	Jun. 17/67	Venus
Kosmos 300	Sep. 23/69	Moon

Kosmos 305	Oct. 22/69	Moon
Kosmos 382	Dec. 2/70	Moon
Kosmos 419	May 10/71	Mars
Kosmos 482	Mar. 31/72	Venus
LACE		Earth satellite
Lacrosse 1		Earth satellite
Lageos		Earth satellite
Landsat 1		Earth satellite
Landsat 2		Earth satellite
Landsat 3		Earth satellite
Landsat 4		Earth satellite
Landsat 5		Earth satellite
Leasat 1 Rocket/Body		Earth satellite
Leasat 2 Rocket/Body		Earth satellite
Leasat 3 Rocket/Body		Earth satellite
Leasat 4 Rocket/Body		Earth satellite
Leasat 5 Rocket/Body		Earth satellite
Luna 1	Jan. 2/59	Moon
Luna 2	Sep. 12/59	Moon
Luna 3	Oct. 4/59	Moon
Luna 4	Apr. 2/63	Moon
Luna 5	May 9/65	Moon
Luna 6	Jun. 8/65	Moon
Luna 7	Oct. 4/65	Moon
Luna 8	Dec. 3/65	Moon
Luna 9	Jan. 31/66	Moon
Luna 10	Mar. 31/66	Moon
Luna 11	Aug. 24/66	Moon
Luna 12	Oct. 22/66	Moon
Luna 13	Dec. 21/66	Moon
Luna 14	Apr. 7/68	Moon
Luna 15	Jul. 13/69	Moon
Luna 16	Sep. 12/70	Moon
Luna 17	Nov. 10/70	Moon
Luna 18	Sep. 2/71	Moon
Luna 19	Sep. 28/71	Moon
Luna 20	Feb. 14/72	Moon
Luna 21	Jan. 8/73	Moon
Luna 22	May 29/74	Moon
Luna 23	Oct. 28/74	Moon
Luna 24	Aug. 9/76	Moon
Lunar Orbiter 1	Aug. 10/66	Moon
Lunar Orbiter 2	Nov. 6/66	Moon
Lunar Orbiter 3	Feb. 5/67	Moon
Lunar Orbiter 4	May 4/67	Moon
Lunar Orbiter 5	Aug. 1/67	Moon
Magellan	May 4/89	Venus
MAO 1 Rocket/Body		Earth satellite
Mariner 1	Jul. 22/62	Venus
Mariner 2	Aug. 27/62	Venus
Mariner 3	Nov. 5/64	Mars
Mariner 4	Nov. 28/64	Mars
Mariner 5	Jun. 14/67	Venus
Mariner 6	Feb. 24/69	Mars
Mariner 7	Mar. 27/69	Mars
Mariner 8	May 8/71	Mars
Mariner 9	May 30/71	Mars

Mariner 10	Nov. 3/73	Moon, Mercury, Venus
Mars 1	Nov. 1/62	Mars
Mars 2	May 19/71	Mars
Mars 3	May 28/71	Mars
Mars 4	Jul. 21/73	Mars
Mars 5	Jul. 25/73	Mars
Mars 6	Aug. 5/73	Mars
Mars 7	Aug. 9/73	Mars
Mars 96	1996	Mars
Mars 98	1998	Mars
Mars 1969A	Mar. 27/69	Mars
Mars 1969B	Apr. 14/69	Mars
Mars Observer	Sep. 25/92	Mars
Mars Pathfinder	Dec. 1996	Mars
Mars Surveyor	Nov. 1996	Mars
Meteor 2-12		Earth satellite
Meteor 2-13		Earth satellite
Meteor 2-16		Earth satellite
Meteor 2-16 Rocket/Body		Earth satellite
Meteor 2-17		Earth satellite
Meteor 2-17 Rocket/Body		Earth satellite
Meteor 2-18		Earth satellite
Meteor 2-19		Earth satellite
Meteor 3-1		Earth satellite
Meteor 3-2		Earth satellite
Meteor 3-3		Earth satellite
Mir Complex		Earth satellite
Miranda Rocket/Body		Earth satellite
MOS 1-A		Earth satellite
MOS 1-B		Earth satellite
MOS 1-B Rocket/Body		Earth satellite
Nadezhda 1		Earth satellite
Nadezhda 2		Earth satellite
Nadezhda 2 Rocket/Body		Earth satellite
Nimbus 2 Rocket/Body		Earth satellite
Nimbus 6 Rocket/Body		Earth satellite
Nimbus 7		Earth satellite
NOAA 1 Rocket/Body		Earth satellite
NOAA 7		Earth satellite
NOAA 8		Earth satellite
NOAA 9		Earth satellite
NOAA 10		Earth satellite
NOAA 11		Earth satellite
OA0 1		Earth satellite
OA0 1 Rocket/Body		Earth satellite
OA0 2		Earth satellite
OA0 2 Rocket/Body		Earth satellite
Okean 1		Earth satellite
Okean 2		Earth satellite
Orizuru (Debut)		Earth satellite
Pageos DA		Earth satellite
Pageos H		Earth satellite
Pageos Rocket/Body		Earth satellite
Palapa 4 Rocket/Body		Earth satellite
Palapa 6 Rocket/Body		Earth satellite
Pegsat		Earth satellite
Phobos 1	Jul. 7/88	Mars

Phobos 2	Jul. 12/88	Mars
Pioneer 1	Oct. 11/58	Moon
Pioneer 2	Nov. 8/58	Moon
Pioneer 3	Dec. 6/58	Moon
Pioneer 4	Mar. 3/59	Moon
Pioneer 6	Dec. 16/65	Sun
Pioneer 7	Aug. 17/66	Sun
Pioneer 8	Dec. 13/67	Sun
Pioneer 9	Nov. 8/68	Sun
Pioneer 10	Mar. 3/72	Jupiter
Pioneer 11	Apr. 6/73	Jupiter, Saturn
Pioneer 12	May 20/78	Venus
Pioneer E	Aug. 27/69	Sun
Pluto Fast Flyby	1999	Pluto
Polar Bear		Earth satellite
Ranger 3	Jan. 26/62	Moon
Ranger 4	Apr. 23/62	Moon
Ranger 5	Oct. 18/62	Moon
Ranger 6	Jan. 30/64	Moon
Ranger 7	Jul. 28/64	Moon
Ranger 8	Feb. 17/65	Moon
Ranger 9	Mar. 21/65	Moon
RME		Earth satellite
Rosat		Earth satellite
Rosat Rocket/Body		Earth satellite
Sakigake	Jan. 7/85	Comet Halley
Sakura Rocket/Body		Earth satellite
Satcom 6 Rocket/Body		Earth satellite
Seasat		Earth satellite
SERT 2		Earth satellite
Sirio Rocket/Body		Earth satellite
SME		Earth satellite
SME Rocket/Body		Earth satellite
Solrad 7A/Secor 1 Rocket/Body		Earth satellite
Solrad 7B/Secor 3 Rocket/Body		Earth satellite
Spot 2		Earth satellite
Spot 2 Rocket/Body		Earth satellite
Sputnik 7	Feb. 4/61	Venus
Starlette		Earth satellite
Suisei	Aug. 18/85	Comet Halley
Surveyor 1	Apr. 30/66	Moon
Surveyor 2	Sep. 20/66	Moon
Surveyor 3	Apr. 17/67	Moon
Surveyor 4	Jul. 14/67	Moon
Surveyor 5	Sep. 8/67	Moon
Surveyor 6	Nov. 7/67	Moon
Surveyor 7	Jan. 7/68	Moon
Timation 1 Rocket/Body		Earth satellite
Timation 2 Rocket/Body		Earth satellite
Transit 2-A Rocket/Body		Earth satellite
Ulysses	Oct. 6/90	Sun, Jupiter
Ulysses Rocket/Body		Earth satellite
Unannounced	Various	Various
UME 1		Earth satellite
UME 1 Rocket/Body		Earth satellite
UME 2		Earth satellite
UME 2 Rocket/Body		Earth satellite

Vanguard 1		Earth satellite
Vanguard 1 Rocket/Body		Earth satellite
Vanguard 3		Earth satellite
Vega 1	Dec. 15/84	Venus, Comet Halley
Vega 2	Dec. 21/84	Venus, Comet Halley
Venera 1	Feb. 21/61	Venus
Venera 2	Nov. 12/65	Venus
Venera 3	Nov. 16/65	Venus
Venera 4	Jun. 12/67	Venus
Venera 5	Jan. 5/69	Venus
Venera 6	Jan. 10/69	Venus
Venera 7	Aug. 17/70	Venus
Venera 8	Mar. 27/72	Venus
Venera 9	Jun. 8/75	Venus
Venera 10	Jun. 14/75	Venus
Venera 11	Sep. 9/78	Venus
Venera 12	Sep. 14/78	Venus
Venera 13	Oct. 30/81	Venus
Venera 14	Nov. 4/81	Venus
Venera 15	Jun. 2/83	Venus
Venera 16	Jun. 7/83	Venus
Viking 1	Aug. 20/75	Mars
Viking 2	Sep. 9/75	Mars
Voyager 1	Sep. 5/77	Jupiter, Saturn, and moons of these 2 planets.
Voyager 2	Aug. 20/77	Jupiter, Saturn, Uranus, Neptune, and their moons.
Westar 6 Rocket/Body		Earth satellite
Yuri Rocket/Body		Earth satellite
Zond 1	Apr. 2/64	Venus
Zond 2	Nov. 30/64	Venus
Zond 3	Jul. 18/65	Moon
Zond 4	Jul. 18/65	Moon
Zond 5	Sep. 14/68	Moon
Zond 6	Nov. 10/68	Moon
Zond 7	Aug. 8/69	Moon

1.2 Able 1

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1.3 Able 4

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1.4 Able 5A

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1.5 Able 5B

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1.6 Apollo 7

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1.7 Apollo 8

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1.8 Apollo 9

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1.9 Apollo 10

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1.10 Apollo 11

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1.11 Apollo 12

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1.12 Apollo 13

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1.13 Apollo 14

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1.14 Apollo 15

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1.15 Apollo 16

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1.16 Apollo 17

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1.17 Cassini

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1.18 Clementine

This information is not provided with the demonstration version of "The Digital Universe". Please consult Ordering The Digital Universe for more information on how to obtain a registered version.

1.19 Explorer 33

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1.20 Explorer 35

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1.21 Explorer 49

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1.22 Galileo (spacecraft)

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1.23 Giotto

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1.24 Helios 1

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1.25 Helios 2

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1.26 Hiten

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1.27 ICE (International Cometary Explorer)

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1.28 Kosmos 21

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1.29 Kosmos 27

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1.30 Kosmos 60

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1.31 Kosmos 96

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1.32 Kosmos 111

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1.33 Kosmos 146

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1.34 Kosmos 154

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1.35 Kosmos 167

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1.36 Kosmos 300

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1.37 Kosmos 305

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1.38 Kosmos 382

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1.39 Kosmos 419

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1.40 Kosmos 482

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1.41 Luna 1

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1.42 Luna 2

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1.43 Luna 3

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1.44 Luna 4

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1.45 Luna 5

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1.46 Luna 6

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1.47 Luna 7

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1.48 Luna 8

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1.49 Luna 9

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1.50 Luna 10

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1.51 Luna 11

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1.52 Luna 12

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1.53 Luna 13

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1.54 Luna 14

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1.62 Luna 22

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1.63 Luna 23

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1.64 Luna 24

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1.65 Lunar Orbiter 1

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1.66 Lunar Orbiter 2

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1.67 Lunar Orbiter 3

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1.68 Lunar Orbiter 4

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1.69 Lunar Orbiter 5

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1.70 Magellan

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1.71 Mariner 1

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1.72 Mariner 2

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1.74 Mariner 4

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1.80 Mariner 10

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1.81 Mars 1

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1.87 Mars 7

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1.88 Mars 96

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1.89 Mars 98

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1.90 Mars 1969A & Mars 1969B

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1.91 Mars Observer

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1.92 Mars Pathfinder

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1.93 Mars Surveyor

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1.94 Phobos 1

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1.95 Phobos 2

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1.96 Pioneer 1

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1.97 Pioneer 2

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1.98 Pioneer 3

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1.105 Pioneer 11

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1.106 Pioneer 12 (Pioneer Venus)

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1.107 Pioneer E

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1.108 Pluto Fast Flyby

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1.109 Ranger 3

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1.110 Ranger 4

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1.112 Ranger 6

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1.113 Ranger 7

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1.115 Ranger 9

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1.116 Sakigake

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1.117 Sputnik7

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1.118 Suisei

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1.119 Surveyor 1

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1.120 Surveyor 2

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1.124 Surveyor 6

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1.125 Surveyor 7

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1.126 Ulysses

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1.127 Unannounced spacecraft

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1.128 Vega 1 & 2

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1.129 Venera 1

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1.130 Venera 2

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1.142 Venera 14

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1.143 Venera 15

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1.144 Venera 16

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1.145 Viking 1

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1.146 Viking 2

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1.147 Voyager 1

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1.148 Voyager 2

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1.149 Zond 1

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