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VOLUME 24, NUMBER 5 DECEMBER 31, 1984

Goddard Space Flight Center
Greenbelt, Maryland

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OFFICE OF PUBLIC AFFAIRS
GODDARD SPACE FLIGHT CENTER
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

VOLUME 24 NO. 5 DECEMBER 31, 1984

SATELLITE SITUATION REPORT

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THE REPORT IS COMPILED BY THE GSFC CONTROL CENTER SUPPORT SECTION, CODE 513.2, PROJECT OPERATIONS BRANCH A/O 2400Z ON DECEMBER 31, 1984

THE REPORT CONSISTS OF DATA COMPUTED BY THE GODDARD SPACE FLIGHT CENTER, NORAD, AND THE SMITHSONIAN ASTROPHYSICAL OBSERVATORY.

TRANSMITTING FREQUENCIES ARE SHOWN ONLY FOR SATELLITES BEING MONITORED BY THE NASA SPACEFLIGHT TRACKING AND DATA NETWORK.

SPACE OBJECTS BOX SCORE

	OBJECTS IN ORBIT			DECAYED OBJECTS		
	PAYLOAD	DEBRIS	TOTAL	PAYLOAD	DEBRIS	TOTAL
AUSTRALIA	1	0	1	1	0	1
CANADA	13	1	14	0	0	0
CZECH	6	0	6	1	0	1
ESA	15	13	28	0	0	0
ESRO	0	0	0	7	3	10
FRANCE	12	20	32	7	50	57
FRANCE/FRG	2	0	2	0	0	0
FRG	3	3	6	3	5	8
INDIA	15	7	22	2	3	5
INDONESIA	3	0	3	1	0	1
INTERNATIONAL TELECOM-MUNICATIONS SATELLITE ORGANIZATION (ITSO)	31	0	31	1	0	1
ITALY	1	0	1	4	0	4
JAPAN	26	34	60	4	22	26
NATO	6	0	6	0	0	0
NETHERLANDS	0	0	0	1	3	4
PRC	4	2	6	12	30	42
SPAIN	1	0	1	0	0	0
UK	9	1	10	6	4	10
US	498	2307	2805	531	1962	2493
USSR	833	1539	2372	1187	6229	7416
TOTAL			5403			10078

OBJECTS IN ORBIT

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1958 LAUNCHES										
BETA 1		16	US	17 MAR	138.0	34.3	4284	653		
BETA 2	VANGUARD 1	5	US	17 MAR	133.5	34.3	3895	656		
BETA 3		1576	US	17 MAR	129.0	34.2	3510	650		
1959 LAUNCHES										
ALPHA 1	VANGUARD 2	11	US	17 FEB	123.8	32.9	3142	559		
ALPHA 2		12	US	17 FEB	128.1	32.9	3519	560		
ETA 1	VANGUARD 3	20	US	18 SEP	127.7	33.3	3525	515		
IOTA 1	EXPLORER 7	22	US	13 OCT	99.7	50.3	949	538		
IOTA 2		23	US	13 OCT	96.1	50.3	663	480		
MU 1	LUNA 1	112	USSR	2 JAN	HELIOCENTRIC ORBIT					
NU 1	PIONEER 4	113	US	3 MAR	HELIOCENTRIC ORBIT					
1960 LAUNCHES										
ALPHA 1	PIONEER 5	27	US	11 MAR	HELIOCENTRIC ORBIT					
BETA 1		28	US	1 APR	97.0	48.4	629	604		
BETA 2	TIROS 1	29	US	1 APR	98.7	48.4	717	674		
BETA 4		115	US	1 APR	99.1	48.2	759	671		
ETA 1	TRANSIT 2A	45	US	22 JUN	101.1	66.7	1019	603		
ETA 2	GREB	46	US	22 JUN	100.7	66.7	989	596		
ETA 3		47	US	22 JUN	100.8	66.7	987	601		
ETA 4		840	US	22 JUN	99.7	66.7	907	579		
ETA 5		841	US	22 JUN	99.6	66.7	901	577		
IOTA 2		50	US	12 AUG	118.1	47.2	1685	1502		
IOTA 3		51	US	12 AUG	118.3	47.2	1688	1516		
IOTA 4		52	US	12 AUG	CURRENT ELEMENTS NOT MAINTAINED					
IOTA 5		53	US	12 AUG	118.4	47.3	1687	1531		
NU 1	COURIER 1B	58	US	4 OCT	107.1	28.3	1215	967		
NU 2		59	US	4 OCT	106.6	28.2	1211	925		
XI 1	EXPLORER 8	60	US	3 NOV	106.4	49.9	1711	407		
XI 2		62	US	3 NOV	93.1	49.9	523	333		
PI 1	TIROS 2	63	US	23 NOV	97.3	48.5	670	584		
PI 3		74	US	23 NOV	94.8	48.5	526	491		
PI 4		75	US	23 NOV	95.6	48.5	570	520		
PI 5		5922	US	23 NOV	105.3	47.0	1038	976		
1961 LAUNCHES										
GAMMA 1	VENERA 1	80	USSR	12 FEB	HELIOCENTRIC ORBIT					
DELTA 2		82	US	16 FEB	118.1	38.9	2550	636		
DELTA 3		85	US	16 FEB	112.1	38.9	2050	600		
DELTA 6		3927	US	16 FEB	113.2	38.9	2158	589		
DELTA 7		4026	US	16 FEB	113.5	38.9	2186	590		
NU 1	EXPLORER 11	107	US	27 APR	105.9	28.8	1585	485		
NU 2		3739	US	27 APR	97.3	28.8	820	436		

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1961 LAUNCHES (CONT.)										
OMICRON 1	TRANSIT 4A	116	US	29 JUN	103.6	66.8	983	877		
OMICRON 2	INJUN-SR-3	117	US	29 JUN	103.7	66.8	987	880		
OMICRON 3 -	268		US	29 JUN	SEE NOTE		1*			1*
OMICRON 23		138	US	29 JUN	103.7	67.2	960	903		
OMICRON 39		154	US	29 JUN	103.1	66.7	979	833		
RHO 1	TIROS 3	162	US	12 JUL	100.2	47.9	801	730		
RHO 2		165	US	12 JUL	99.2	47.9	750	695		
RHO 3		166	US	12 JUL	96.9	48.0	661	555		
RHO 4		167	US	12 JUL	101.7	47.9	914	764		
SIGMA 1	MIDAS 3	193	US	12 JUL	161.4	91.2	3539	3344		
SIGMA 3		188	US	12 JUL	161.1	91.2	3528	3327		
SIGMA 4		196	US	12 JUL	161.8	91.2	3579	3337		
A DELTA 1	MIDAS 4	192	US	21 OCT	165.9	95.9	3760	3485		
A DELTA 3		194	US	21 OCT	165.5	95.9	3829	3384		
A DELTA 4		195	US	21 OCT	166.3	95.9	3869	3409		
A DELTA 5		2009	US	21 OCT	165.7	95.9	3732	3494		
A DELTA 6		2371	US	21 OCT	165.3	95.9	4699	2494		
A ETA 1	TRANSIT 4B	202	US	15 NOV	105.8	32.4	1106	955		
A ETA 2	TRAAC	205	US	15 NOV	105.8	32.4	1109	957		
A ETA 3		204	US	15 NOV	105.7	32.4	1099	951		
A ETA 4		10796	US	15 NOV	105.8	32.4	1108	956		
1962 LAUNCHES										
ALPHA 1	RANGER 3	221	US	26 JAN	HELIOCENTRIC ORBIT					
ALPHA 2		222	US	26 JAN	HELIOCENTRIC ORBIT					
BETA 1	TIROS 4	226	US	8 FEB	100.1	48.3	825	700		
BETA 2		227	US	8 FEB	100.9	48.1	911	691		
BETA 3		228	US	8 FEB	98.6	48.4	716	668		
BETA 4		229	US	8 FEB	99.0	48.3	754	663		
KAPPA 1		271	US	9 APR	152.9	86.7	3404	2785		
KAPPA 3		273	US	9 APR	152.5	86.7	3367	2790		
KAPPA 4		274	US	9 APR	153.3	86.7	3424	2793		
MU 2		282	US	23 APR	HELIOCENTRIC ORBIT					
A ALPHA 1	TIROS 5	309	US	19 JUN	99.8	58.1	919	581		
A ALPHA 2		311	US	19 JUN	97.3	58.1	726	530		
A ALPHA 3		312	US	19 JUN	100.7	58.3	995	591		
A ALPHA 4		313	US	19 JUN	96.8	58.0	690	521		
A EPSILON 1	TELSTAR 1	340	US	10 JUL	157.8	44.8	5640	949		
A EPSILON 2		341	US	10 JUL	157.6	44.8	5625	948		
A OMICRON 1		369	US	23 AUG	98.7	98.6	794	595		
A OMICRON 3		378	US	23 AUG	98.4	98.3	788	571		
A OMICRON 4		388	US	23 AUG	97.7	98.5	728	570		
A RHO 1	MARINER 2	374	US	27 AUG	HELIOCENTRIC ORBIT					
A RHO 2		375	US	27 AUG	HELIOCENTRIC ORBIT					
A PSI 1	TIROS 6	397	US	18 SEP	98.1	58.3	679	655		
A PSI 3		399	US	18 SEP	98.4	58.4	714	645		
A PSI 4		400	US	18 SEP	94.6	58.2	510	485		
B ALPHA 1	ALOUETTE 1	424	CANADA	29 SEP	105.3	80.5	1025	990		
B ALPHA 2		426	US	29 SEP	105.3	80.5	1021	993		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1962 LAUNCHES (CONT.)										
B ALPHA 3		510	US	29 SEP	105.2	80.5	1016	991		
B ALPHA 4		511	US	29 SEP	105.3	80.4	1032	985		
B GAMMA 2		NNA	US	2 OCT	CURRENT ELEMENTS NOT MAINTAINED					
B ETA 1	RANGER 5	439	US	18 OCT	HELIOCENTRIC ORBIT					
B ETA 2		440	US	18 OCT	HELIOCENTRIC ORBIT					
B LAMBDA 1	EXPLORER 15	445	US	27 OCT	CURRENT ELEMENTS NOT MAINTAINED					
B LAMBDA 2		NNA	US	27 OCT	CURRENT ELEMENTS NOT MAINTAINED					
B MU 1	ANNA 1B	446	US	31 OCT	107.9	50.1	1182	1076		
B MU 2		447	US	31 OCT	107.6	50.1	1165	1066		
B NU 3		450	USSR	1 NOV	HELIOCENTRIC ORBIT					
B UPSILON 1	RELAY 1	503	US	13 DEC	185.1	47.5	7443	1316		
B UPSILON 2		515	US	13 DEC	184.8	47.5	7426	1315		
B CHI 1	EXPLORER 16	506	US	16 DEC	104.2	52.0	1168	746		
B PSI 1	TRANSIT 5A	509	US	19 DEC	93.3	90.6	442	430		
B PSI 3		519	US	19 DEC	95.9	90.7	568	554		
1963 LAUNCHES										
1963 004A	SYNCOM 1	553	US	14 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1963 006B	LUNA 4	566	USSR	2 APR	BARYCENTRIC ORBIT					
1963 013A	TELSTAR 2	573	US	7 MAY	225.3	42.7	10803	971		
1963 013B		575	US	7 MAY	225.0	42.7	10786	967		
1963 014A		574	US	9 MAY	166.4	87.4	3672	3611		
1963 014B	ERS 5	579	US	9 MAY	165.9	87.7	3905	3342		
1963 014C	ERS 6	606	US	9 MAY	166.4	87.4	3671	3612		
1963 014D - 014DF			US	9 MAY	SEE NOTE	2*				2*
1963 022A		594	US	16 JUN	97.1	89.9	628	611		
1963 022B		603	US	16 JUN	98.1	89.9	681	653		
1963 022C		610	US	16 JUN	98.9	90.1	751	653		
1963 024A	TIROS 7	604	US	19 JUN	95.9	58.2	572	550		
1963 024C		606	US	19 JUN	93.6	58.3	453	448		
1963 025B		614	US	27 JUN	120.7	82.1	3094	329		
1963 030A	ERS 10	622	US	18 JUL	167.8	88.4	3715	3682		
1963 030B	ERS 9	635	US	18 JUL	167.8	88.4	3715	3682		
1963 030C		630	US	18 JUL	167.4	88.4	3802	3566		
1963 030E		631	US	18 JUL	168.2	88.4	3767	3664		
1963 030F		3121	US	18 JUL	166.6	87.4	3689	3610		
1963 030G		3132	US	18 JUL	167.8	88.4	3720	3679		
1963 031A	SYNCOM 2	634	US	26 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1963 031B		625	US	26 JUL	122.0	32.6	3270	272		
1963 038A		669	US	28 SEP	107.0	89.8	1108	1065		
1963 038B		670	US	28 SEP	107.2	89.8	1127	1066		
1963 038C	SN 39	671	US	28 SEP	107.2	89.8	1126	1064		
1963 038D		672	US	28 SEP	106.6	89.8	1096	1044		
1963 038E		745	US	28 SEP	106.7	89.8	1092	1056		
1963 038F		2097	US	28 SEP	106.6	89.8	1101	1039		
1963 038G		3166	US	28 SEP	107.2	89.8	1128	1064		
1963 038K		12943	US	28 SEP	104.8	89.9	1087	883		
1963 039A		674	US	17 OCT	CURRENT ELEMENTS NOT MAINTAINED					
1963 039C		692	US	17 OCT	CURRENT ELEMENTS NOT MAINTAINED					

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1963 LAUNCHES (CONT.)										
1963 047A	CENTAUR 2	694	US	27 NOV	105.8	30.4	1590	474		
1963 047B - 047S			US	27 NOV	SEE NOTE		3*			3*
1963 049A		703	US	5 DEC	106.7	90.0	1086	1060		
1963 049B		704	US	5 DEC	107.0	90.0	1111	1061		
1963 049C		705	US	5 DEC	106.9	90.0	1109	1060		
1963 049D		706	US	5 DEC	106.7	90.0	1094	1050		
1963 049E		715	US	5 DEC	106.2	90.0	1077	1027		
1963 049F		753	US	5 DEC	106.8	90.0	1100	1052		
1963 049G		2432	US	5 DEC	106.9	90.0	1109	1060		
1963 049H		2620	US	5 DEC	106.4	90.0	1074	1047		
1963 053B		721	US	19 DEC	115.4	78.6	2345	598		
1963 053C		722	US	19 DEC	112.3	78.6	2023	638		
1963 053E		724	US	19 DEC	111.7	78.7	1981	628		
1963 053G		726	US	19 DEC	110.3	78.6	1854	626		
1963 053H		732	US	19 DEC	112.0	78.7	1999	640		
1963 053J		3750	US	19 DEC	111.2	78.7	1926	637		
1963 054A	TIROS 8	716	US	21 DEC	98.9	58.5	725	683		
1963 054B		717	US	21 DEC	96.8	58.5	623	591		
1963 054C		720	US	21 DEC	100.5	58.5	881	681		
1964 LAUNCHES										
1964 001A		727	US	11 JAN	103.3	69.9	923	906		
1964 001B	GRAVITY GRADIENT 1	728	US	11 JAN	103.3	69.9	921	903		
1964 001C	SECOR (EGRS) 1	729	US	11 JAN	103.3	69.9	925	904		
1964 001D	SOLRAD 7A	730	US	11 JAN	103.3	69.9	923	905		
1964 001E	GREB	731	US	11 JAN	103.3	69.9	924	904		
1964 002A		733	US	19 JAN	100.9	99.0	829	776		
1964 002B		734	US	19 JAN	101.0	99.0	818	794		
1964 002C		735	US	19 JAN	101.1	99.0	822	795		
1964 003A	RELAY 2	737	US	21 JAN	194.7	46.4	7497	2004		
1964 003B		738	US	21 JAN	194.8	46.4	7505	2002		
1964 004B		741	US	25 JAN	108.8	81.5	1302	1039		
1964 004C		742	US	25 JAN	108.7	81.5	1298	1033		
1964 004D		743	US	25 JAN	108.7	81.5	1298	1030		
1964 006A	ELEKTRON 1	746	USSR	30 JAN	165.0	60.8	6765	410		
1964 006B	ELEKTRON 2	748	USSR	30 JAN	1356.4	67.6	59883	8538		
1964 006C		750	USSR	30 JAN	149.4	60.9	5497	403		
1964 006D		751	USSR	30 JAN	1384.1	67.9	60926	8598		
1964 006E		14427	USSR	30 JAN	142.3	60.8	4983	319		
1964 006F		14428	USSR	30 JAN	143.3	60.8	4991	396		
1964 016D	ZOND 1	735	USSR	2 APR	HELIOCENTRIC ORBIT					
1964 026A		801	US	4 JUN	102.5	90.5	913	841		
1964 026B		805	US	4 JUN	102.8	90.1	923	859		
1964 026C		806	US	4 JUN	100.7	90.8	848	730		
1964 026D		809	US	4 JUN	102.7	90.5	931	844		
1964 026E		2986	US	4 JUN	102.8	90.5	934	845		
1964 026G		13360	US	4 JUN	99.3	90.5	751	698		
1964 031A		812	US	18 JUN	101.3	99.8	826	817		
1964 031B		813	US	18 JUN	101.4	99.8	827	819		

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1964 LAUNCHES (CONT.)										
1964 031C		815	US	18 JUN	101.2	99.8	826	807		
1964 038A	ELEKTRON 3	829	USSR	10 JUL	163.5	60.8	6645	404		
1964 038C		831	USSR	10 JUL	148.0	60.8	5379	404		
1964 040A		836	US	17 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1964 040B		837	US	17 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1964 041B		843	US	28 JUL	BARYCENTRIC ORBIT					
1964 047A	SYNCOM 3	858	US	19 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1964 047B		862	US	19 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1964 049D	COSMOS 41	869	USSR	22 AUG	714.5	71.2	38082	2111		
1964 049E		898	USSR	22 AUG	717.3	71.3	38259	2072		
1964 049F		13091	USSR	22 AUG	715.9	71.1	37971	2290		
1964 051A	EXPLORER 20	870	US	25 AUG	103.7	79.9	1007	858		
1964 051B		871	US	25 AUG	103.4	79.9	990	851		
1964 053A	COSMOS 44	876	USSR	28 AUG	99.0	65.1	812	606		
1964 053B		877	USSR	28 AUG	99.2	65.1	763	678		
1964 054A	OGO 1	879	US	5 SEP	CURRENT ELEMENTS NOT MAINTAINED					
1964 063A	NNSS 30010	893	US	6 OCT	106.2	89.9	1070	1030		
1964 063B		897	US	6 OCT	106.4	89.9	1073	1050		
1964 063C		900	US	6 OCT	105.9	89.9	1050	1019		
1964 063D		901	US	6 OCT	106.4	89.9	1071	1050		
1964 063E		902	US	6 OCT	106.5	89.9	1074	1052		
1964 063F		903	US	6 OCT	105.8	89.9	1044	1020		
1964 064A	EXPLORER 22	899	US	10 OCT	104.5	79.7	1063	876		
1964 064B		907	US	10 OCT	104.5	79.7	1065	878		
1964 064C		976	US	10 OCT	103.4	79.3	1023	817		
1964 064D		977	US	10 OCT	105.1	80.0	1099	894		
1964 073A	MARINER 3	923	US	5 NOV	HELIOCENTRIC ORBIT					
1964 076B	EXPLORER 25	932	US	21 NOV	115.2	81.4	2402	524		
1964 076C		933	US	21 NOV	114.7	81.3	2358	526		
1964 076K		960	US	21 NOV	101.1	81.3	1129	493		
1964 077A	MARINER 4	938	US	28 NOV	HELIOCENTRIC ORBIT					
1964 077B		942	US	28 NOV	HELIOCENTRIC ORBIT					
1964 078C	ZOND 2	945	USSR	30 NOV	HELIOCENTRIC ORBIT					
1964 083A	NNSS 30020	953	US	13 DEC	106.0	89.8	1064	1018		
1964 083B		956	US	13 DEC	105.9	89.8	1063	1007		
1964 083C		959	US	13 DEC	106.0	89.8	1071	1013		
1964 083D		965	US	13 DEC	106.2	89.8	1078	1020		
1964 083F		967	US	13 DEC	105.9	89.8	1063	1008		
1964 083G		1099	US	13 DEC	106.0	89.8	1070	1013		
1964 083J		1608	US	13 DEC	105.5	89.8	1045	992		
1964 086A	EXPLORER 26	963	US	21 DEC	CURRENT ELEMENTS NOT MAINTAINED					
1965 LAUNCHES										
1965 004A	TIROS 9	978	US	22 JAN	119.0	96.4	2569	701		
1965 004B		979	US	22 JAN	118.9	96.4	2562	701		
1965 004C		1312	US	22 JAN	117.7	96.3	2481	670		
1965 004D		1313	US	22 JAN	120.1	96.4	2645	728		
1965 007A	OSO 2	987	US	3 FEB	93.6	32.8	474	442		
1965 008A		1001	US	11 FEB	145.4	32.1	2798	2765		

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1965 LAUNCHES (CONT.)										
1965 008B		1000	US	11 FEB	145.7	32.1	2803	2783		
1965 008C		1002	US	11 FEB	145.8	32.1	2810	2782		
1965 009B		1088	US	16 FEB	91.3	31.7	351	322		
1965 010B		1087	US	17 FEB	BARYCENTRIC ORBIT					
1965 014A	COSMOS 58	1097	USSR	26 FEB	94.6	65.0	520	479		
1965 014B		1098	USSR	26 FEB	92.9	65.0	430	400		
1965 016A	GREB	1271	US	9 MAR	103.3	70.1	931	897		
1965 016B	GRAVITY GRADIENT 2	1244	US	9 MAR	103.3	70.1	932	899		
1965 016C	GRAVITY GRADIENT 3	1292	US	9 MAR	103.2	70.1	924	893		
1965 016D	SOLRAD 7B	1291	US	9 MAR	103.4	70.1	934	900		
1965 016E	SECOR (EGRS) 3	1208	US	9 MAR	103.3	70.1	931	900		
1965 016F	OSCAR 3	1293	US	9 MAR	103.0	70.1	915	888		
1965 016H	SORCAL	1272	US	9 MAR	103.4	70.1	934	900		
1965 016J		1245	US	9 MAR	103.3	70.1	930	895		
1965 016K		12099	US	9 MAR	103.2	70.1	926	894		
1965 020E		1335	USSR	15 MAR	107.8	56.1	1670	581		
1965 020Q		1345	USSR	15 MAR	96.3	55.9	782	384		
1965 020S		1347	USSR	15 MAR	105.8	56.1	1501	563		
1965 020AC		1370	USSR	15 MAR	105.6	56.1	1497	551		
1965 020AE		1372	USSR	15 MAR	100.3	56.0	1034	506		
1965 020AH		1392	USSR	15 MAR	106.9	55.9	1634	534		
1965 020BB		1477	USSR	15 MAR	112.4	55.5	1843	828		
1965 020BC		1478	USSR	15 MAR	110.9	56.1	1879	652		
1965 020BD		1479	USSR	15 MAR	115.1	56.1	2100	817		
1965 020BE		1480	USSR	15 MAR	115.0	56.1	2146	764		
1965 020BV		1495	USSR	15 MAR	106.4	55.6	1481	633		
1965 020CV		1549	USSR	15 MAR	114.7	56.2	2099	781		
1965 020DX		1597	USSR	15 MAR	98.2	56.0	845	502		
1965 020ED		1634	USSR	15 MAR	116.0	56.2	2185	811		
1965 020EH		2334	USSR	15 MAR	111.1	55.7	1771	785		
1965 020EM		2934	USSR	15 MAR	115.5	55.6	1762	1192		
1965 020EN		3038	USSR	15 MAR	110.1	56.3	1867	590		
1965 020ER		3708	USSR	15 MAR	106.5	56.4	1494	633		
1965 020ES		3743	USSR	15 MAR	118.2	56.7	1811	1384		
1965 020ET		3745	USSR	15 MAR	115.3	56.0	1592	1349		
1965 020EU		3749	USSR	15 MAR	108.9	56.1	1716	630		
1965 020EV		3931	USSR	15 MAR	116.6	56.1	1702	1355		
1965 020EW		3963	USSR	15 MAR	101.9	55.9	1178	513		
1965 020EY		3965	USSR	15 MAR	117.9	56.3	1799	1376		
1965 020FD		6252	USSR	15 MAR	117.1	56.0	1697	1405		
1965 020FF		13517	USSR	15 MAR	110.3	55.6	1748	728		
1965 021A		1273	US	18 MAR	94.5	99.0	542	446		
1965 023B		1298	US	21 MAR	HELIOCENTRIC ORBIT					
1965 027A		1314	US	3 APR	111.4	90.3	1315	1269		
1965 027B	SECOR (EGRS) 4	1315	US	3 APR	111.4	90.3	1313	1265		
1965 027C		1316	US	3 APR	110.7	90.3	1295	1223		
1965 027D		1389	US	3 APR	110.7	90.2	1284	1236		
1965 027E		1399	US	3 APR	100.4	90.4	325	725		
1965 027F		11631	US	3 APR	111.4	90.3	1312	1266		
1965 027G		12102	US	3 APR	111.4	90.3	1313	1265		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1965 LAUNCHES (CONT.)										
1965 027H		13131	US	3 APR	111.3	90.3	1307	1269		
1965 027J		14047	US	3 APR	111.4	90.3	1314	1266		
1965 027K		14048	US	3 APR	111.3	90.3	1309	1267		
1965 027L		14049	US	3 APR	111.4	90.3	1312	1270		
1965 027M		14515	US	3 APR	111.4	90.3	1313	1267		
1965 027N		14715	US	3 APR	111.4	90.3	1314	1271		
1965 027P		14716	US	3 APR	111.4	90.3	1315	1268		
1965 027Q		14717	US	3 APR	111.4	90.3	1315	1266		
1965 027R		15340	US	3 APR	111.4	90.3	1316	1267		
1965 028A	EARLY BIRD	1317	ITSO	6 APR	CURRENT ELEMENTS NOT MAINTAINED					
1965 028B		1318	US	6 APR	CURRENT ELEMENTS NOT MAINTAINED					
1965 032A	EXPLORER 27	1328	US	29 APR	107.8	41.2	1309	940	136.740	4*
1965 032B		1358	US	29 APR	107.8	41.2	1311	938		
1965 032C		1995	US	29 APR	100.9	41.1	1060	543		
1965 032D		2011	US	29 APR	108.5	41.2	1336	981		
1965 034A		1359	US	6 MAY	157.1	32.1	3745	2784		
1965 034B		1360	US	6 MAY	309.9	32.1	14802	2779		
1965 034C		1361	US	6 MAY	145.6	32.1	2803	2778		
1965 034D		2529	US	6 MAY	309.9	32.1	14799	2780		
1965 038A		1377	US	20 MAY	98.4	98.3	831	527		
1965 038B		1378	US	20 MAY	97.5	98.1	768	512		
1965 038E		1461	US	20 MAY	95.6	98.2	633	462		
1965 038G		1475	US	20 MAY	94.1	97.9	521	423		
1965 039B		1385	US	25 MAY	94.0	31.7	518	426		
1965 044A	LUNA 6	1393	USSR	8 JUN	HELIOCENTRIC ORBIT					
1965 048A	NNSS 30040	1420	US	24 JUN	106.7	90.0	1130	1018		
1965 048B		1428	US	24 JUN	106.5	90.0	1105	1021		
1965 048C		1425	US	24 JUN	106.8	90.0	1132	1022		
1965 048D		1435	US	24 JUN	106.2	90.0	1106	994		
1965 048E		2701	US	24 JUN	106.2	90.0	1090	1008		
1965 048F		3592	US	24 JUN	106.2	90.0	1092	1010		
1965 048G		11952	US	24 JUN	102.7	89.9	945	824		
1965 048H		11953	US	24 JUN	102.6	89.9	939	823		
1965 051A	TIROS 10	1430	US	2 JUL	100.3	98.5	818	728		
1965 051B		1433	US	2 JUL	100.0	98.3	801	719		
1965 051C		1440	US	2 JUL	97.3	98.6	699	560		
1965 051D		1529	US	2 JUL	101.6	99.0	866	805		
1965 056A	ZOND 3	1454	USSR	18 JUL	HELIOCENTRIC ORBIT					
1965 058A		1458	US	20 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1965 058B		1459	US	20 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1965 063A	SECOR (EGRS) 5	1506	US	10 AUG	122.2	69.2	2418	1136		
1965 063B		1502	US	10 AUG	122.2	69.2	2416	1138		
1965 064A	CENTAUR 6	1503	US	11 AUG	BARYCENTRIC ORBIT					
1965 065A	NNSS 30050	1504	US	13 AUG	107.8	90.0	1175	1074		
1965 065B		1508	US	13 AUG	107.6	89.9	1148	1086		
1965 065C		1510	US	13 AUG	106.6	90.0	1117	1017		
1965 065D		1511	US	13 AUG	108.0	90.0	1183	1082		
1965 065E		1512	US	13 AUG	108.0	90.0	1185	1082		
1965 065F		1514	US	13 AUG	108.0	90.0	1185	1079		
1965 065G		1515	US	13 AUG	107.5	90.0	1159	1060		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1965 LAUNCHES (CONT.)										
1965 065H		1520	US	13 AUG	107.9	90.0	1182	1079		
1965 065J		1521	US	13 AUG	108.0	90.0	1185	1082		
1965 065K		1577	US	13 AUG	107.9	90.0	1182	1079		
1965 065L		1522	US	13 AUG	108.0	90.0	1187	1081		
1965 065P		3810	US	13 AUG	107.5	90.0	1160	1061		
1965 065Q		5265	US	13 AUG	107.8	89.9	1154	1093		
1965 065T		11855	US	13 AUG	105.4	90.0	1061	964		
1965 070A	COSMOS 80	1570	USSR	3 SEP	115.0	56.1	1540	1366		
1965 070B	COSMOS 81	1571	USSR	3 SEP	115.3	56.1	1546	1393		
1965 070C	COSMOS 82	1572	USSR	3 SEP	115.7	56.1	1554	1416		
1965 070D	COSMOS 83	1573	USSR	3 SEP	116.0	56.1	1564	1441		
1965 070E	COSMOS 84	1574	USSR	3 SEP	116.4	56.1	1573	1465		
1965 070F		1575	USSR	3 SEP	114.6	56.1	1516	1356		
1965 070G		3045	USSR	3 SEP	115.9	55.5	1734	1260		
1965 072A		1580	US	10 SEP	101.4	98.9	1012	640		
1965 072D		1583	US	10 SEP	100.8	98.8	966	630		
1965 072E		1931	US	10 SEP	102.4	98.6	1108	634		
1965 072F		1932	US	10 SEP	99.2	98.6	825	611		
1965 073A	COSMOS 86	1584	USSR	18 SEP	115.0	56.1	1626	1288		
1965 073B	COSMOS 87	1585	USSR	18 SEP	115.5	56.1	1637	1314		
1965 073C	COSMOS 88	1586	USSR	18 SEP	115.8	56.1	1652	1334		
1965 073D	COSMOS 89	1587	USSR	18 SEP	116.2	56.1	1664	1358		
1965 073E	COSMOS 90	1588	USSR	18 SEP	116.7	56.1	1674	1386		
1965 073F		1589	USSR	18 SEP	116.8	56.0	1683	1389		
1965 073G		1590	USSR	18 SEP	116.1	56.1	1645	1365		
1965 073H		1591	USSR	18 SEP	116.4	56.1	1669	1366		
1965 073J		1617	USSR	18 SEP	117.2	56.1	1734	1373		
1965 073K		1618	USSR	18 SEP	117.5	56.2	1754	1377		
1965 073L		2647	USSR	18 SEP	116.0	56.1	1652	1350		
1965 078A		1613	US	5 OCT	120.6	144.2	3004	411		
1965 078B		1616	US	5 OCT	119.7	144.2	2922	409		
1965 081B		1625	US	14 OCT	93.8	87.3	575	344		
1965 082B - 082DL			US	15 OCT	SEE NOTE	5*				5*
1965 089A	EXPLORER 29	1726	US	6 NOV	120.3	59.4	2273	1114		
1965 089B		1729	US	6 NOV	120.3	59.4	2271	1114		
1965 089C		2700	US	6 NOV	119.2	59.6	2216	1068		
1965 089D		2888	US	6 NOV	121.3	59.2	2324	1153		
1965 091A	VENERA 2	1730	USSR	12 NOV	HELIOCENTRIC ORBIT					
1965 092D		1736	USSR	16 NOV	HELIOCENTRIC ORBIT					
1965 093A	EXPLORER 30	1738	US	19 NOV	100.4	59.7	877	681		
1965 093B		1739	US	19 NOV	100.2	59.7	839	696		
1965 093C		2013	US	19 NOV	99.1	59.7	774	653		
1965 093D		2038	US	19 NOV	100.6	59.7	873	699		
1965 096A	A-1	1778	FRANCE	26 NOV	108.0	34.3	1738	529		
1965 096B		1805	FRANCE	26 NOV	107.2	34.2	1667	527		
1965 096D		1996	FRANCE	26 NOV	104.4	34.2	1412	518		
1965 098A	ALOUETTE 2	1804	CANADA	29 NOV	119.4	79.8	2801	504		
1965 098B	EXPLORER 31	1806	US	29 NOV	120.5	79.8	2908	502		
1965 098C		1807	US	29 NOV	119.8	79.8	2838	504		
1965 098D		1808	US	29 NOV	112.2	79.8	2161	495		

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1965 LAUNCHES (CONT.)										
1965 098E		1944	US	29 NOV	111.6	79.8	2108	493		
1965 098F		1948	US	29 NOV	116.3	79.9	2532	498		
1965 098G		1951	US	29 NOV	116.3	79.7	2529	496		
1965 098H		2092	US	29 NOV	119.5	79.9	2811	505		
1965 098J		2153	US	29 NOV	119.3	79.8	2799	503		
1965 101A	FR-1	1814	FRANCE	6 DEC	99.3	75.9	729	717		
1965 101B		1815	US	6 DEC	99.2	75.9	726	713		
1965 105A	PIONEER 6	1841	US	16 DEC	HELIOCENTRIC ORBIT					
1965 106A	COSMOS 100	1843	USSR	17 DEC	96.5	65.0	657	520		
1965 106B		1844	USSR	17 DEC	96.2	65.0	591	566		
1965 109A	NNSS 30060	1864	US	22 DEC	104.7	89.1	1066	898		
1965 109B		1865	US	22 DEC	104.8	89.1	1069	900		
1965 109C		2086	US	22 DEC	102.0	89.1	881	825		
1965 109D		2226	US	22 DEC	106.9	89.0	1276	892		
1965 109E		2353	US	22 DEC	105.1	89.4	1115	881		
1965 112A	COSMOS 103	1868	USSR	28 DEC	94.4	56.1	501	479		
1965 112Q		1937	USSR	28 DEC	95.7	55.9	575	528		
1966 LAUNCHES										
1966 005A	NNSS 30070	1952	US	28 JAN	105.6	89.8	1195	852		
1966 005B		1953	US	28 JAN	105.7	89.8	1201	853		
1966 005C		2140	US	28 JAN	107.4	90.0	1359	852		
1966 005D		2141	US	28 JAN	103.7	89.8	1046	825		
1966 005E		2889	US	28 JAN	109.5	89.5	1332	1070		
1966 005F		2989	US	28 JAN	103.9	89.8	1034	847		
1966 005J		11991	US	28 JAN	105.5	89.8	1187	845		
1966 005K		14226	US	28 JAN	104.5	89.7	1134	807		
1966 005L		15341	US	28 JAN	105.2	89.8	1165	838		
1966 006D		2001	USSR	31 JAN	BARYCENTRIC ORBIT					
1966 008A	ESSA 1	1932	US	3 FEB	99.9	97.8	818	690		
1966 008B		1933	US	3 FEB	99.8	97.8	817	678		
1966 008C		2035	US	3 FEB	97.9	97.8	680	632		
1966 008D		2118	US	3 FEB	100.7	98.0	908	676		
1966 008E		2154	US	3 FEB	99.6	97.8	791	686		
1966 013A	D-1A	2016	FRANCE	17 FEB	116.9	34.1	2578	503		
1966 013B		2017	FRANCE	17 FEB	116.2	34.1	2516	505		
1966 013F		2023	FRANCE	17 FEB	105.9	34.0	1607	461		
1966 013G		2151	FRANCE	17 FEB	112.6	34.1	2176	511		
1966 013N		14844	FRANCE	17 FEB	99.1	34.0	984	442		
1966 013P		14845	FRANCE	17 FEB	101.1	34.0	1162	456		
1966 016A	ESSA 2	2091	US	28 FEB	113.4	101.1	1413	1352		
1966 016B		2096	US	28 FEB	113.4	101.0	1413	1351		
1966 016C		2223	US	28 FEB	111.8	101.3	1382	1238		
1966 016D		2224	US	28 FEB	115.0	101.0	1562	1347		
1966 016E		6214	US	28 FEB	114.3	101.3	1514	1332		
1966 024A	NNSS 30080	2119	US	25 MAR	105.0	89.9	1104	886		
1966 024B		2120	US	25 MAR	105.1	89.9	1110	888		
1966 024E		12855	US	25 MAR	100.5	89.9	815	748		
1966 025A	OV1-4	2121	US	30 MAR	104.0	144.5	1011	887		

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1966 LAUNCHES (CONT.)										
1966 025B	OV1-5	2122	US	30 MAR	105.6	144.6	1058	987		
1966 025C		2123	US	30 MAR	105.6	144.6	1058	988		
1966 025D		2124	US	30 MAR	104.0	144.5	1009	889		
1966 025E		3611	US	30 MAR	103.8	144.6	999	879		
1966 025G		5351	US	30 MAR	104.4	144.6	1000	930		
1966 025H		5599	US	30 MAR	103.8	144.6	998	880		
1966 026A		2125	US	31 MAR	99.6	98.6	885	612		
1966 026B		2129	US	31 MAR	98.8	98.5	809	589		
1966 026D		2177	US	31 MAR	101.0	99.0	1004	609		
1966 026F		2179	US	31 MAR	98.0	98.3	748	574		
1966 027A	LUNA 10	2126	USSR	31 MAR	SELENOCENTRIC ORBIT					
1966 027D		2130	USSR	31 MAR	HELIOCENTRIC ORBIT					
1966 027E		2131	USSR	31 MAR	BARYCENTRIC ORBIT					
1966 027F		2132	USSR	31 MAR	BARYCENTRIC ORBIT					
1966 031A	OAO 1	2142	US	8 APR	100.8	35.0	800	788		
1966 031B		2144	US	8 APR	100.5	35.0	789	775		
1966 034A	OV3-1	2150	US	22 APR	139.2	82.4	4687	346		
1966 034B		2157	US	22 APR	126.9	82.4	3639	337		
1966 034D		2209	US	22 APR	109.6	82.3	2114	305		
1966 038A	COSMOS 118	2158	USSR	11 MAY	93.4	65.0	449	431		
1966 038B		2159	USSR	11 MAY	94.0	65.0	494	446		
1966 040A	NIMBUS 2	2173	US	15 MAY	108.0	100.3	1175	1092		
1966 040B		2174	US	15 MAY	107.8	100.4	1167	1082		
1966 041A	NNSS 30090	2175	US	19 MAY	103.0	89.9	961	842		
1966 041B		2180	US	19 MAY	103.1	89.9	967	846		
1966 041C		2225	US	19 MAY	100.0	89.9	788	723		
1966 041D		2644	US	19 MAY	105.2	89.9	1170	836		
1966 041E		3591	US	19 MAY	103.0	89.9	961	843		
1966 041F		4555	US	19 MAY	102.4	89.9	925	822		
1966 044A	EXPLORER 32	2183	US	25 MAY	90.3	64.5	378	196		
1966 045B		2187	US	30 MAY	BARYCENTRIC ORBIT					
1966 049A	OGO 3	2195	US	7 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1966 052A		2201	US	10 JUN	143.0	40.8	4715	643		
1966 052B		2206	US	10 JUN	142.7	40.8	4692	646		
1966 052C		2498	US	10 JUN	139.4	40.6	4471	586		
1966 052D		2516	US	10 JUN	144.8	41.1	4816	696		
1966 053A		2207	US	16 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1966 053B		2215	US	16 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1966 053C		2216	US	16 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1966 053D		2217	US	16 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1966 053E		2218	US	16 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1966 053F		2219	US	16 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1966 053G		2220	US	16 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1966 053H		2221	US	16 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1966 053J		2222	US	16 JUN	1351.8	11.1	34544	33694		
1966 056A	PAGEOS 1	2253	US	24 JUN	178.3	85.0	4564	3667		
1966 056B		2255	US	24 JUN	181.1	86.9	4281	4171		
1966 056C		2256	US	24 JUN	181.3	86.9	4278	4188		
1966 056D		2511	US	24 JUN	181.5	87.0	4261	4216		
1966 056E		8064	US	24 JUN	194.2	83.3	6289	3168		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1966 LAUNCHES (CONT.)										
1966 056G		8056	US	24 JUN	178.5	84.6	6071	2172		
1966 056H		8074	US	24 JUN	178.4	84.6	6015	2220		
1966 056N		8079	US	24 JUN	172.6	84.7	4869	2914		
1966 056Z		9450	US	24 JUN	178.4	84.6	6015	2219		
1966 056AF		9456	US	24 JUN	178.3	85.0	4724	3502		
1966 056AH		9463	US	24 JUN	179.2	84.3	4875	3425		
1966 056CG		13795	US	24 JUN	162.1	83.9	6494	442		
1966 057A	COSMOS 122	2254	USSR	25 JUN	94.4	65.0	489	485		
1966 058A	EXPLORER 33	2256	US	1 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1966 058C		2260	US	1 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1966 063B		2327	US	14 JUL	104.5	144.2	980	962		
1966 063C		2328	US	14 JUL	105.3	144.2	1014	998		
1966 063D		2329	US	14 JUL	104.9	144.2	996	981		
1966 063E		2337	US	14 JUL	105.2	144.2	1010	1000		
1966 070A	OV3-3	2389	US	4 AUG	127.0	81.4	3627	352		
1966 070B		2404	US	4 AUG	112.6	81.4	2350	338		
1966 070D		2800	US	4 AUG	130.7	81.5	3887	414		
1966 073B		2395	US	10 AUG	BARYCENTRIC ORBIT					
1966 075A	PIONEER 7	2396	US	17 AUG	HELIOCENTRIC ORBIT					
1966 075C		2402	US	17 AUG	HELIOCENTRIC ORBIT					
1966 076A	NNSS 30100	2401	US	18 AUG	106.6	83.9	1091	1043		
1966 076B		2413	US	18 AUG	106.6	88.9	1093	1047		
1966 076C		2530	US	18 AUG	105.0	89.2	1068	919		
1966 076D		2702	US	18 AUG	108.1	88.6	1204	1071		
1966 077A		2403	US	19 AUG	167.4	89.8	3707	3659		
1966 077B	SECOR (EGRS) 7	2411	US	19 AUG	167.5	89.8	3697	3673		
1966 077C	ERS 15	2412	US	19 AUG	167.6	89.8	3699	3681		
1966 078A	LUNA 11	2406	USSR	24 AUG	SELENOCENTRIC ORBIT					
1966 082A		2418	US	16 SEP	100.4	98.7	872	680		
1966 082B		2422	US	16 SEP	100.3	98.7	868	680		
1966 084B		2426	US	20 SEP	BARYCENTRIC ORBIT					
1966 087A	ESSA 3	2435	US	2 OCT	114.5	101.0	1484	1384		
1966 087B		2436	US	2 OCT	114.5	101.0	1483	1381		
1966 087C		2518	US	2 OCT	115.9	100.8	1558	1430		
1966 087D		2775	US	2 OCT	113.2	101.3	1471	1278		
1966 087E		6213	US	2 OCT	113.7	102.0	1452	1341		
1966 087F		8791	US	2 OCT	CURRENT ELEMENTS NOT MAINTAINED					
1966 089A		2481	US	5 OCT	167.5	90.3	3712	3664		
1966 089B	SECOR (EGRS) 8	2520	US	5 OCT	167.6	90.3	3701	3681		
1966 094A	LUNA 12	2508	USSR	22 OCT	SELENOCENTRIC ORBIT					
1966 095B		2513	US	25 OCT	BARYCENTRIC ORBIT					
1966 096A	INTELSAT 2 F-1	2514	ITSO	26 OCT	718.2	18.3	37113	3263		
1966 096C		11792	US	26 OCT	525.8	18.0	30043	359		
1966 110A	AIS 1	2608	US	7 DEC	1435.7	11.6	35814	35746	136.460,137.350	4*
1966 111A	OV1-9	2610	US	11 DEC	140.7	99.1	4696	473		
1966 111B	OV1-10	2611	US	11 DEC	97.6	93.4	688	594		
1966 111C		2621	US	11 DEC	98.2	93.4	731	614		
1966 111D		2622	US	11 DEC	140.3	99.1	4656	473		
1967 LAUNCHES										

OBJECTS IN ORBIT

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1967 001A	INTELSAT 2 F-2	2639	ITSO	11 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1967 001D		2643	US	11 JAN	456.7	26.8	26235	298		
1967 001S		5987	US	11 JAN	521.7	26.5	29690	486		
1967 001T		5988	US	11 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1967 001V		5990	US	11 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1967 001W		5998	US	11 JAN	449.1	29.6	25842	255		
1967 001X		6779	US	11 JAN	656.9	27.6	36589	715		
1967 001AM		14756	US	11 JAN	410.3	26.8	23569	258		
1967 003A		2645	US	18 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1967 003B		2649	US	18 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1967 003C		2650	US	18 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1967 003D		2651	US	18 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1967 003E		2652	US	18 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1967 003F		2653	US	18 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1967 003G		2654	US	18 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1967 003H		2655	US	18 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1967 003J		2660	US	18 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1967 006A	ESSA 4	2657	US	26 JAN	113.4	102.0	1438	1323		
1967 006B		2661	US	26 JAN	113.6	102.1	1439	1339		
1967 006C		2706	US	26 JAN	114.2	102.2	1446	1391		
1967 006D		2707	US	26 JAN	112.6	101.8	1460	1228		
1967 006E		5971	US	26 JAN	113.1	101.9	1454	1280		
1967 010A		2659	US	3 FEB	101.2	98.9	855	777		
1967 010B		2741	US	3 FEB	101.2	98.9	858	773		
1967 011A	DIADEME 1	2674	FRANCE	8 FEB	102.6	40.0	1202	557		
1967 011B		2671	FRANCE	8 FEB	103.1	40.0	1249	561		
1967 011H		2689	FRANCE	8 FEB	99.3	40.0	937	509		
1967 011L		2692	FRANCE	8 FEB	97.0	40.0	739	490		
1967 014A	DIADEME 2	2680	FRANCE	15 FEB	109.2	39.4	1798	583		
1967 014B		2682	FRANCE	15 FEB	109.6	39.4	1828	585		
1967 014C		2684	FRANCE	15 FEB	108.2	40.0	1709	577		
1967 014F		2685	FRANCE	15 FEB	107.4	39.0	1644	567		
1967 014J		14505	FRANCE	15 FEB	110.4	38.9	1908	580		
1967 014K		14633	FRANCE	15 FEB	103.5	39.4	1300	546		
1967 018B		2696	USSR	28 FEB	93.9	81.2	505	425		
1967 025A	INTELSAT 2 F-3	2717	ITSO	23 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1967 027A	COSMOS 151	2720	USSR	24 MAR	95.2	56.0	545	510		
1967 027B		2721	USSR	24 MAR	93.3	56.0	446	422		
1967 034A	NNSS 30120	2754	US	14 APR	106.3	90.3	1071	1038		
1967 034B		2755	US	14 APR	106.4	90.3	1076	1043		
1967 034C		2777	US	14 APR	103.6	90.2	1039	821		
1967 034D		2778	US	14 APR	108.4	90.3	1247	1055		
1967 034E		4843	US	14 APR	106.7	90.4	1098	1048		
1967 035B		2764	US	17 APR	BARYCENTRIC ORBIT					
1967 036A	ESSA 5	2757	US	20 APR	113.5	101.8	1419	1353		
1967 036B		2758	US	20 APR	113.5	101.8	1417	1355		
1967 036C		2976	US	20 APR	112.3	102.2	1408	1257		
1967 036D		2977	US	20 APR	114.6	101.5	1482	1388		
1967 039A	COSMOS 156	2762	USSR	27 APR	94.2	81.2	490	471		
1967 039B		2763	USSR	27 APR	95.2	81.2	568	484		

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1967 LAUNCHES (CONT.)										
1967 040A		2765	US	28 APR	CURRENT ELEMENTS NOT MAINTAINED					
1967 040B		2766	US	28 APR	CURRENT ELEMENTS NOT MAINTAINED					
1967 040C	ERS 13	2767	US	28 APR	CURRENT ELEMENTS NOT MAINTAINED					
1967 040D	ERS 20	2768	US	28 APR	CURRENT ELEMENTS NOT MAINTAINED					
1967 040E	ERS 27	2769	US	28 APR	CURRENT ELEMENTS NOT MAINTAINED					
1967 040F		2770	US	28 APR	CURRENT ELEMENTS NOT MAINTAINED					
1967 043B		2780	US	9 MAY	96.4	84.9	662	507		
1967 045A	COSMOS 158	2801	USSR	15 MAY	100.3	74.0	814	731		
1967 045B		2802	USSR	15 MAY	100.3	74.0	825	716		
1967 045C		2823	USSR	15 MAY	98.5	74.0	719	659		
1967 045D		3737	USSR	15 MAY	97.4	74.0	660	607		
1967 048A	NNSS 30130	2807	US	18 MAY	106.8	89.7	1094	1061		
1967 048B		2811	US	18 MAY	106.8	89.7	1095	1063		
1967 053A		2826	US	31 MAY	102.4	70.0	880	863		
1967 053B		2825	US	31 MAY	103.2	70.0	917	906		
1967 053C	GRAVITY GRADIENT 4	2828	US	31 MAY	103.2	70.0	916	907		
1967 053D	GRAVITY GRADIENT 5	2834	US	31 MAY	103.3	70.0	917	908		
1967 053E		2847	US	31 MAY	103.1	70.0	909	902		
1967 053F		2872	US	31 MAY	103.2	70.0	913	905		
1967 053G		2873	US	31 MAY	103.2	70.0	916	906		
1967 053H		2874	US	31 MAY	103.3	70.0	917	908		
1967 053J		2909	US	31 MAY	102.2	70.0	870	856		
1967 060A	MARINER 5	2845	US	14 JUN	HELIOCENTRIC ORBIT					
1967 060B		2846	US	14 JUN	HELIOCENTRIC ORBIT					
1967 065A	SECOR (EGRS) 9	2851	US	29 JUN	172.1	89.9	3944	3794		
1967 065B	AURORA 1	2876	US	29 JUN	172.1	89.9	3943	3796		
1967 065C		2877	US	29 JUN	172.1	89.9	3937	3801		
1967 066A	TITAN 3 C-14	2862	US	1 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1967 066B		2863	US	1 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1967 066C		2864	US	1 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1967 066D		2865	US	1 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1967 066E		2866	US	1 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1967 066F	DODGE	2867	US	1 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1967 066G		2868	US	1 JUL	1319.1	5.8	33659	33270		
1967 068B		2833	US	14 JUL	BARYCENTRIC ORBIT					
1967 070A	EXPLORER 35	2884	US	19 JUL	SELENOCENTRIC ORBIT					
1967 075B		2908	US	1 AUG	BARYCENTRIC ORBIT					
1967 080A		2920	US	23 AUG	101.9	98.9	878	823		
1967 080B		2940	US	23 AUG	101.9	99.0	877	819		
1967 084B		2938	US	8 SEP	BARYCENTRIC ORBIT					
1967 092A	NNSS 30140	2965	US	25 SEP	106.6	89.2	1106	1030		
1967 092B		2967	US	25 SEP	106.6	89.2	1104	1033		
1967 092C		2994	US	25 SEP	104.0	89.5	1022	872		
1967 092D		3122	US	25 SEP	108.9	89.1	1321	1034		
1967 092E		12554	US	25 SEP	104.3	89.2	1003	920		
1967 092F		12555	US	25 SEP	104.4	89.2	998	930		
1967 094A	INTELSAT 2 F-4	2969	ITSU	28 SEP	CURRENT ELEMENTS NOT MAINTAINED					
1967 094C		2971	US	28 SEP	CURRENT ELEMENTS NOT MAINTAINED					
1967 096A		2980	US	11 OCT	99.5	99.2	823	650		
1967 096B		2985	US	11 OCT	99.4	99.1	815	649		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1967 LAUNCHES (CONT.)										
1967 102A	COSMOS 184	3010	USSR	24 OCT	93.8	81.2	471	451		
1967 102B		3011	USSR	24 OCT	95.4	81.2	589	484		
1967 104B		3019	USSR	27 OCT	97.1	64.1	740	496		
1967 111A	ATS 3	3029	US	5 NOV	1436.2	10.6	35834	35740		4*
1967 112B		3034	US	7 NOV	BARYCENTRIC ORBIT					
1967 114A	ESSA 6	3035	US	10 NOV	114.8	102.0	1483	1406		
1967 114B		3036	US	10 NOV	114.8	102.0	1483	1408		
1967 114C		3051	US	10 NOV	114.1	101.1	1482	1344		
1967 114D		3123	US	10 NOV	115.4	102.6	1494	1449		
1967 114E		5443	US	10 NOV	114.6	101.3	1484	1386		
1967 116A	COSMOS 192	3047	USSR	23 NOV	99.4	74.0	735	728		
1967 116B		3048	USSR	23 NOV	99.4	74.0	734	725		
1967 123A	PIONEER 8	3066	US	13 DEC	HELIOCENTRIC ORBIT					
1967 127A	COSMOS 198	3081	USSR	27 DEC	103.4	65.1	947	889		
1968 LAUNCHES										
1968 001B		3092	US	7 JAN	BARYCENTRIC ORBIT					
1968 002A	EXPLORER 36	3093	US	11 JAN	112.2	105.8	1573	1079		
1968 002B		3094	US	11 JAN	112.1	105.8	1565	1079		
1968 002C		3126	US	11 JAN	112.3	106.1	1580	1084		
1968 002D		3127	US	11 JAN	112.1	105.3	1571	1075		
1968 011A	COSMOS 203	3129	USSR	20 FEB	109.2	74.0	1200	1180		
1968 011B		3131	USSR	20 FEB	109.2	74.0	1202	1181		
1968 012A	NNSS 30180	3133	US	2 MAR	106.8	90.0	1131	1020		
1968 012B		3137	US	2 MAR	106.8	90.0	1134	1022		
1968 012C		3213	US	2 MAR	104.8	89.9	1094	879		
1968 012D		3214	US	2 MAR	108.7	90.1	1309	1021		
1968 013A	ZOND 4	3134	USSR	2 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1968 014A	OGO 5	3138	US	4 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1968 014B		3145	US	4 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1968 017A	EXPLORER 37	3141	US	5 MAR	95.6	59.4	642	453		
1968 017D		3328	US	5 MAR	98.0	59.6	746	583		
1968 019A	COSMOS 206	3150	USSR	14 MAR	93.7	81.2	465	450		
1968 019B		3151	USSR	14 MAR	95.5	81.2	596	491		
1968 023A	COSMOS 209	3158	USSR	22 MAR	103.1	65.3	939	867		
1968 026A	OV1-13	3173	US	6 APR	199.0	99.9	9242	582		
1968 026B	OV1-14	3174	US	6 APR	207.3	100.0	9890	561		
1968 026C		3177	US	6 APR	207.3	100.0	9887	561		
1968 026D		3212	US	6 APR	198.7	99.9	9224	574		
1968 027A	LUNA 14	3178	USSR	7 APR	SELENOCENTRIC ORBIT					
1968 040A	COSMOS 220	3229	USSR	7 MAY	98.5	74.0	724	653		
1968 040B		3230	USSR	7 MAY	98.4	74.0	719	647		
1968 040C		3231	USSR	7 MAY	96.6	74.1	617	573		
1968 042A		3266	US	23 MAY	101.9	99.0	888	809		
1968 042B		3271	US	23 MAY	101.9	99.0	886	809		
1968 049B		3283	USSR	12 JUN	94.9	81.2	562	462		
1968 050A		3284	US	13 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1968 050B		3285	US	13 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1968 050C		3286	US	13 JUN	CURRENT ELEMENTS NOT MAINTAINED					

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1968 LAUNCHES (CONT.)										
1968 050D		3237	US	13 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1968 050E		3238	US	13 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1968 050F		3289	US	13 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1968 050G		3290	US	13 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1968 050H		3291	US	13 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1968 050J		3292	US	13 JUN	1363.7	10.9	35034	33679		
1968 055A	EXPLORER 38	3307	US	4 JUL	224.2	120.8	5865	5830		
1968 055B		3315	US	4 JUL	155.9	120.7	5807	623		
1968 055C		3348	US	4 JUL	224.0	120.9	5860	5817		
1968 055D		4841	US	4 JUL	155.5	120.7	5829	575		
1968 063A		3334	US	6 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1968 066B	EXPLORER 40	3338	US	8 AUG	118.0	80.7	2506	678		
1968 066C		3341	US	8 AUG	118.0	80.7	2498	679		
1968 066D		3342	US	8 AUG	112.6	80.7	2022	667		
1968 066E		3343	US	8 AUG	111.0	80.6	1910	634		
1968 066F		3390	US	8 AUG	112.9	80.6	2047	675		
1968 066G		3391	US	8 AUG	112.4	80.7	2023	654		
1968 066H		3392	US	8 AUG	114.3	80.7	2157	693		
1968 066J		3393	US	8 AUG	113.3	80.6	2090	664		
1968 069A	ESSA 7	3345	US	16 AUG	114.9	101.6	1471	1429		
1968 069B		3346	US	16 AUG	114.8	101.6	1464	1426		
1968 069C		3416	US	16 AUG	113.6	101.6	1485	1300		
1968 069D		3417	US	16 AUG	116.1	102.4	1557	1455		
1968 069E		3974	US	16 AUG	114.9	101.8	1477	1422		
1968 069F		3975	US	16 AUG	114.9	101.9	1482	1414		
1968 069G		4499	US	16 AUG	115.1	101.7	1481	1435		
1968 070A	COSMOS 236	3347	USSR	27 AUG	94.5	56.1	507	485		
1968 081A	OV2-5	3428	US	26 SEP	CURRENT ELEMENTS NOT MAINTAINED					
1968 081C	ERS 21	3430	US	26 SEP	CURRENT ELEMENTS NOT MAINTAINED					
1968 081D	LES 6	3431	US	26 SEP	1435.9	8.2	35867	35697		
1968 081E		3432	US	26 SEP	1418.0	8.1	35784	35077		
1968 091A	COSMOS 249	3504	USSR	20 OCT	111.7	62.4	2102	507		
1968 091B - 091CV			USSR	20 OCT	SEE NOTE 7*					7*
1968 092A		3510	US	23 OCT	101.2	98.3	836	791		
1968 092B		3522	US	23 OCT	101.1	98.4	833	789		
1968 097A	COSMOS 252	3530	USSR	1 NOV	112.2	62.3	2105	548		
1968 097B - 097EC			USSR	1 NOV	SEE NOTE 8*					8*
1968 100A	PIONEER 9	3533	US	8 NOV	HELIOCENTRIC ORBIT					
1968 106A	COSMOS 256	3576	USSR	30 NOV	109.3	74.0	1222	1169		
1968 106B		3577	USSR	30 NOV	109.2	74.0	1216	1163		
1968 110A	OAO-A2	3597	US	7 DEC	100.1	35.0	768	759		
1968 110B		3598	US	7 DEC	99.9	35.0	795	710		
1968 112B		3605	US	12 DEC	114.3	80.4	1468	1379		
1968 112C		3617	US	12 DEC	114.0	80.2	1444	1374		
1968 112D		3618	US	12 DEC	114.7	80.5	1507	1374		
1968 112E		3840	US	12 DEC	114.4	80.6	1455	1402		
1968 114A	ESSA 8	3615	US	15 DEC	114.6	101.3	1462	1411		
1968 114B		3616	US	15 DEC	115.0	101.4	1468	1446		
1968 114C		3811	US	15 DEC	112.8	101.9	1463	1248		
1968 114D		3812	US	15 DEC	116.3	102.2	1571	1458		

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1968 LAUNCHES (CONT.)										
1968 116A	INTELSAT 3 F-2	3623	ITSO	19 DEC	CURRENT ELEMENTS NOT MAINTAINED					
1968 118B		3627	US	21 DEC	HELIOCENTRIC ORBIT					
1969 LAUNCHES										
1969 009A	ISIS 1	3669	CANADA	30 JAN	127.9	88.4	3490	574		
1969 009B		3670	US	30 JAN	127.3	88.4	3433	573		
1969 010B		3673	US	5 FEB	114.0	80.4	1430	1393		
1969 010C		3341	US	5 FEB	113.7	80.2	1421	1370		
1969 011A	INTELSAT 3 F-3	3674	ITSO	6 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1969 011B		5977	US	6 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1969 013A		3691	US	9 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1969 013B		3692	US	9 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1969 014A	MARINER 5	3759	US	25 FEB	HELIOCENTRIC ORBIT					
1969 014B		3760	US	25 FEB	HELIOCENTRIC ORBIT					
1969 016A	ESSA 9	3764	US	26 FEB	115.2	101.8	1503	1423		
1969 016B		3767	US	26 FEB	115.1	101.8	1497	1419		
1969 018B		3770	US	3 MAR	HELIOCENTRIC ORBIT					
1969 024A	COSMOS 272	3818	USSR	17 MAR	109.2	74.0	1206	1177		
1969 024B		3819	USSR	17 MAR	109.1	74.0	1194	1178		
1969 024C		6289	USSR	17 MAR	109.0	74.0	1187	1169		
1969 025C	OV1-19	3825	US	18 MAR	152.2	104.7	5654	473		
1969 025E		3827	US	18 MAR	151.3	104.7	5577	481		
1969 029A	METEOR	3835	USSR	26 MAR	96.9	81.2	631	592		
1969 029B		3836	USSR	26 MAR	94.2	81.2	562	395		
1969 029E		3851	USSR	26 MAR	92.8	81.2	455	370		
1969 029Z		3879	USSR	26 MAR	92.7	81.3	452	363		
1969 030A	MARINER 7	3837	US	27 MAR	HELIOCENTRIC ORBIT					
1969 030B		3845	US	27 MAR	HELIOCENTRIC ORBIT					
1969 036A		3889	US	13 APR	CURRENT ELEMENTS NOT MAINTAINED					
1969 037A	NIMBUS 3	3890	US	14 APR	107.3	99.8	1129	1070		
1969 037B	SECOR (EGRS) 13	3891	US	14 APR	107.2	99.7	1126	1068		
1969 037C		3892	US	14 APR	107.3	99.8	1132	1074		
1969 043B		3943	US	18 MAY	HELIOCENTRIC ORBIT					
1969 043C	LM/DESCENT	3948	US	18 MAY	SELENOCENTRIC ORBIT					
1969 043D	LM/ASCENT	3949	US	18 MAY	HELIOCENTRIC ORBIT					
1969 045A	INTELSAT 3 F-4	3947	ITSO	22 MAY	CURRENT ELEMENTS NOT MAINTAINED					
1969 046A	OV5-5/ERS-29	3950	US	23 MAY	CURRENT ELEMENTS NOT MAINTAINED					
1969 046B	OV5-6	3951	US	23 MAY	CURRENT ELEMENTS NOT MAINTAINED					
1969 046C	OV5-9	3952	US	23 MAY	CURRENT ELEMENTS NOT MAINTAINED					
1969 046D		3954	US	23 MAY	6700.9	61.6	145637	77081		
1969 046E		3955	US	23 MAY	6700.7	61.0	150633	72080		
1969 046F		3956	US	23 MAY	CURRENT ELEMENTS NOT MAINTAINED					
1969 053B		3993	US	21 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1969 059B		4040	US	16 JUL	HELIOCENTRIC ORBIT					
1969 059C	LUNAR MODULE	4041	US	16 JUL	SELENOCENTRIC ORBIT					9*
1969 062A		4047	US	23 JUL	101.1	98.7	842	774		
1969 062B		4048	US	23 JUL	101.0	98.8	838	773		
1969 064A	INTELSAT 3 F-5	4051	ITSO	26 JUL	104.3	30.2	1663	258		
1969 064C		4053	US	26 JUL	132.0	30.3	4154	267		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1969 LAUNCHES (CONT.)										
1969 069A	ATS 5	4068	US	12 AUG	1465.8	9.4	36941	35790		4*
1969 069B		4069	US	12 AUG	703.3	17.2	37285	2352		
1969 069C		5991	US	12 AUG	680.0	16.9	37104	1372		
1969 070A	COSMOS 292	4070	USSR	13 AUG	99.6	74.1	747	729		
1969 070B		4071	USSR	13 AUG	99.3	74.1	738	715		
1969 070C		4084	USSR	13 AUG	99.8	74.1	767	732		
1969 082B		4256	US	30 SEP	103.2	70.0	925	899		
1969 082C		4257	US	30 SEP	103.3	70.0	929	901		
1969 082D		4259	US	30 SEP	103.3	70.0	930	902		
1969 082E		4237	US	30 SEP	103.3	70.0	929	902		
1969 082F		4247	US	30 SEP	103.3	70.0	929	902		
1969 082G		4295	US	30 SEP	103.3	70.0	929	902		
1969 082H		4168	US	30 SEP	103.3	70.0	928	902		
1969 082J		4166	US	30 SEP	102.2	70.0	876	853		
1969 082K		4132	US	30 SEP	102.7	70.0	901	875		
1969 082L - 082KL			US	30 SEP	SEE NOTE	10*				10*
1969 084A	METEOR	4119	USSR	6 OCT	96.6	81.2	614	573		
1969 084B		4120	USSR	6 OCT	96.4	81.2	659	510		
1969 091A	COSMOS 304	4138	USSR	21 OCT	99.7	74.0	753	733		
1969 091B		4139	USSR	21 OCT	99.3	74.0	728	718		
1969 097A	GRS-A/AZUR	4221	FRG	8 NOV	115.4	102.7	2567	380		
1969 097B		4222	US	8 NOV	110.6	102.9	2135	372		
1969 099B		4226	US	14 NOV	CURRENT ELEMENTS NOT MAINTAINED					
1969 101A	SKYNET A	4250	UK	22 NOV	CURRENT ELEMENTS NOT MAINTAINED					
1969 101B		4251	US	22 NOV	CURRENT ELEMENTS NOT MAINTAINED					
1969 103A	COSMOS 312	4254	USSR	24 NOV	108.5	74.0	1174	1139		
1969 103B		4255	USSR	24 NOV	108.3	74.0	1157	1140		
1970 LAUNCHES -										
1970 003A	INTELSAT 3 F-6	4297	ITSO	15 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1970 003B		4298	US	15 JAN	559.6	28.1	31891	342		
1970 008A	ITOS 1	4320	US	23 JAN	115.0	101.7	1477	1432		
1970 008B	OSCAR 5	4321	AUSTRL	23 JAN	115.0	101.7	1476	1431		
1970 008C		4322	US	23 JAN	115.0	101.6	1476	1433		
1970 009A	SERT 2	4327	US	4 FEB	106.0	99.3	1046	1039		
1970 011A	OHSUMI	4330	JAPAN	11 FEB	127.1	31.1	3655	333		
1970 012A		4331	US	11 FEB	101.0	98.9	851	757		
1970 012B		4332	US	11 FEB	101.0	99.0	854	760		
1970 021A	NATO 1	4353	NATO	20 MAR	1502.8	7.3	37957	36208		
1970 021B		4354	US	20 MAR	576.1	26.1	32631	483		
1970 021C		5975	US	20 MAR	583.8	25.2	33261	257		
1970 025A	NIMBUS 4	4362	US	8 APR	107.1	99.6	1097	1086		
1970 025B	TOPO 1	4363	US	8 APR	106.9	99.5	1085	1082		
1970 025C - 025NX			US	8 APR	SEE NOTE	11*				11*
1970 027A		4366	US	8 APR	6691.0	61.2	121226	101260		
1970 027B		4368	US	8 APR	6698.3	57.3	119193	103464		
1970 028A	COSMOS 332	4369	USSR	11 APR	99.7	74.0	747	737		
1970 028B		4370	USSR	11 APR	99.4	74.0	745	718		
1970 028C		14814	USSR	11 APR	99.8	74.0	756	737		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1970 LAUNCHES (CONT.)										
1970 032A	INTELSAT 3 F-7	4376	ITSO	23 APR	CURRENT ELEMENTS NOT MAINTAINED					
1970 032B		4377	US	23 APR	CURRENT ELEMENTS NOT MAINTAINED					
1970 034A	MAO 1	4382	PRC	24 APR	112.6	68.4	2261	434		
1970 034B		4392	PRC	24 APR	107.0	68.4	1756	422		
1970 036A	COSMOS 336	4383	USSR	25 APR	115.4	74.0	1484	1462		
1970 036B	COSMOS 337	4384	USSR	25 APR	116.2	74.0	1551	1465		
1970 036C	COSMOS 338	4385	USSR	25 APR	115.8	74.0	1517	1465		
1970 036D	COSMOS 339	4386	USSR	25 APR	115.0	74.0	1467	1443		
1970 036E	COSMOS 340	4387	USSR	25 APR	114.6	74.0	1468	1405		
1970 036F	COSMOS 341	4388	USSR	25 APR	113.9	74.0	1467	1341		
1970 036G	COSMOS 342	4389	USSR	25 APR	113.5	74.0	1466	1309		
1970 036H	COSMOS 343	4390	USSR	25 APR	114.2	74.0	1467	1372		
1970 036J		4391	USSR	25 APR	116.6	74.0	1586	1466		
1970 037A	METEOR	4393	USSR	28 APR	97.1	81.2	648	587		
1970 037B		4394	USSR	28 APR	97.4	81.2	721	547		
1970 046A		4418	US	19 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1970 046B		4511	US	19 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1970 047A	METEOR	4419	USSR	23 JUN	101.9	81.2	878	818		
1970 047B		4420	USSR	23 JUN	102.1	81.2	921	795		
1970 055A	INTELSAT 3 F-8	4478	ITSO	23 JUL	1404.7	11.5	37745	32593		
1970 055B		4486	US	23 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1970 062A	SKYNET B	4493	UK	19 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1970 064A	COSMOS 358	4497	USSR	20 AUG	93.3	74.0	436	431		
1970 067A		4507	US	27 AUG	106.8	90.2	1210	946		
1970 067B		4515	US	27 AUG	106.8	90.1	1212	946		
1970 067C		5036	US	27 AUG	103.5	90.2	946	903		
1970 067D		5447	US	27 AUG	109.4	90.1	1447	946		
1970 069A		4510	US	1 SEP	CURRENT ELEMENTS NOT MAINTAINED					
1970 070A		4512	US	3 SEP	100.9	99.0	853	747		
1970 070B		4513	US	3 SEP	100.9	98.9	857	748		
1970 079A	COSMOS 367	4564	USSR	3 OCT	104.5	65.3	1009	930		
1970 083A	COSMOS 371	4578	USSR	12 OCT	99.6	74.0	738	735		
1970 083B		4579	USSR	12 OCT	99.4	74.0	738	718		
1970 085A	METEOR	4583	USSR	15 OCT	96.1	81.2	577	565		
1970 085B		4584	USSR	15 OCT	96.4	81.2	651	516		
1970 085C		6330	USSR	15 OCT	95.1	81.2	579	472		
1970 086A	COSMOS 372	4588	USSR	16 OCT	100.5	74.1	794	773		
1970 086B		4589	USSR	16 OCT	100.4	74.1	792	759		
1970 086C		5357	USSR	16 OCT	99.7	74.0	749	736		
1970 086D		5358	USSR	16 OCT	100.1	74.0	769	761		
1970 089A	COSMOS 374	4594	USSR	23 OCT	108.9	63.0	1835	512		
1970 089B - 089CZ			USSR	23 OCT	SEE NOTE 12*					12*
1970 091A	COSMOS 375	4598	USSR	30 OCT	111.5	62.8	2014	578		
1970 091B - 091AT			USSR	30 OCT	SEE NOTE 13*					13*
1970 093A		4630	US	6 NOV	1198.1	13.3	36074	25902		
1970 093B		4632	US	6 NOV	1192.4	10.2	36027	25715		
1970 102A	COSMOS 381	4783	USSR	2 DEC	104.8	74.0	1006	962		
1970 102B		4784	USSR	2 DEC	104.7	74.0	996	961		
1970 102C		4840	USSR	2 DEC	102.5	74.0	889	863		
1970 102D		5225	USSR	2 DEC	104.3	74.0	974	946		

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1970 LAUNCHES (CONT.)										
1970 102E		8764	USSR	2 DEC	104.4	74.0	982	945		
1970 102F		9794	USSR	2 DEC	102.9	74.0	910	883		
1970 103A	COSMOS 382	4786	USSR	2 DEC	171.0	55.9	5204	2449		
1970 103B		4789	USSR	2 DEC	158.8	51.6	5085	1587		
1970 103C		4790	USSR	2 DEC	159.1	51.6	5087	1610		
1970 103D		5316	USSR	2 DEC	154.2	55.0	4230	2060		
1970 103G		12854	USSR	2 DEC	151.4	50.4	5001	1060		
1970 106A	NOAA 1	4793	US	11 DEC	114.8	101.7	1472	1421		
1970 106B		4794	US	11 DEC	114.8	101.6	1473	1419		
1970 106C		8828	US	11 DEC	116.4	102.0	1544	1496		
1970 108A	COSMOS 385	4799	USSR	12 DEC	104.6	74.0	979	974		
1970 108B		4800	USSR	12 DEC	104.5	74.0	978	964		
1970 109B		4802	FRANCE	12 DEC	97.8	15.0	695	608		
1970 113A	COSMOS 389	4813	USSR	18 DEC	97.0	81.2	635	598		
1970 113B		4814	USSR	18 DEC	97.3	81.2	681	573		
1971 LAUNCHES										
1971 000A		4924	US	UNKN	95.6	18.0	906	192		14*
1971 000E		5310	US	UNKN	CURRENT ELEMENTS NOT MAINTAINED					14*
1971 003A	METEOR	4849	USSR	20 JAN	96.6	81.2	606	585		
1971 003B		4850	USSR	20 JAN	96.7	81.2	665	533		
1971 006A	INTELSAT 4 F-2	4881	ITSO	26 JAN	1455.5	5.9	41421	30911		
1971 006B		4882	US	26 JAN	653.8	27.9	36539	610		
1971 009A	NATO 2	4902	NATO	3 FEB	1436.3	7.7	35802	35777		
1971 009B		4903	US	3 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1971 009D		5986	US	3 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1971 010A	COSMOS 394	4922	USSR	9 FEB	96.0	65.8	588	541		
1971 011A	TANSEI 1	4952	JAPAN	16 FEB	106.1	29.7	1107	988		
1971 011B		5126	JAPAN	16 FEB	104.8	29.7	995	977		
1971 012A		4953	US	17 FEB	100.5	98.4	814	753		
1971 012B		4954	US	17 FEB	100.6	98.5	815	757		
1971 012C		4957	US	17 FEB	97.9	98.3	673	640		
1971 012D		4958	US	17 FEB	97.6	98.4	661	629		
1971 012E		4963	US	17 FEB	98.3	98.3	694	661		
1971 015A	COSMOS 397	4964	USSR	25 FEB	113.3	65.7	2190	565		
1971 015B - 015CU			USSR	25 FEB	SEE NOTE 15*					15*
1971 016A	COSMOS 398	4966	USSR	26 FEB	153.8	51.6	6057	202		
1971 020A	COSMOS 400	5050	USSR	18 MAR	104.9	65.8	1001	981		
1971 020B		5051	USSR	18 MAR	104.8	65.8	1026	940		
1971 020C		5052	USSR	18 MAR	104.9	65.8	999	982		
1971 021A		5053	US	21 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1971 021B		5054	US	21 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1971 024A	ISIS 2	5104	CANADA	1 APR	113.5	88.2	1422	1355		
1971 024B		5106	US	1 APR	113.5	88.2	1420	1351		
1971 024C		5360	US	1 APR	113.5	88.3	1421	1356		
1971 025A	COSMOS 402	5105	USSR	1 APR	104.9	65.0	1009	968		
1971 028A	COSMOS 405	5117	USSR	7 APR	97.5	81.2	644	635		
1971 028B		5118	USSR	7 APR	97.7	81.3	705	588		
1971 028D		5724	USSR	7 APR	97.3	81.2	633	626		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1971 LAUNCHES (CONT.)										
1971 031A	METEOR	5142	USSR	17 APR	95.2	81.2	543	515		
1971 031B		5143	USSR	17 APR	96.2	81.2	633	516		
1971 035A	COSMOS 407	5174	USSR	23 APR	100.7	74.0	808	778		
1971 035B		5175	USSR	23 APR	100.6	74.0	810	761		
1971 035C		5300	USSR	23 APR	100.4	74.0	789	768		
1971 035D		5301	USSR	23 APR	100.6	74.0	801	774		
1971 038A	COSMOS 409	5180	USSR	28 APR	109.3	74.0	1209	1175		
1971 038B		5181	USSR	28 APR	109.0	74.0	1223	1140		
1971 039A		5204	US	5 MAY	ELEMENTS NOT AVAILABLE					
1971 039B		5205	US	5 MAY	ELEMENTS NOT AVAILABLE					
1971 041A	COSMOS 411	5210	USSR	7 MAY	113.8	74.0	1488	1314		
1971 041B	COSMOS 412	5211	USSR	7 MAY	116.1	74.0	1534	1477		
1971 041C	COSMOS 413	5212	USSR	7 MAY	115.7	74.0	1505	1472		
1971 041D	COSMOS 414	5213	USSR	7 MAY	115.1	74.0	1492	1424		
1971 041E	COSMOS 415	5214	USSR	7 MAY	115.4	74.0	1499	1448		
1971 041F	COSMOS 416	5215	USSR	7 MAY	114.4	74.0	1489	1369		
1971 041G	COSMOS 417	5216	USSR	7 MAY	114.1	74.0	1490	1341		
1971 041H	COSMOS 418	5217	USSR	7 MAY	114.8	74.0	1491	1397		
1971 041J		5218	USSR	7 MAY	116.8	74.0	1591	1485		
1971 045A	MARS 2	5234	USSR	19 MAY	AREOCENTRIC ORBIT					
1971 046A	COSMOS 422	5238	USSR	22 MAY	105.0	74.0	1003	983		
1971 046B		5239	USSR	22 MAY	104.9	74.0	996	979		
1971 049A	MARS 3	5252	USSR	28 MAY	AREOCENTRIC ORBIT					
1971 051A	MARINER 9	5261	US	30 MAY	AREOCENTRIC ORBIT					
1971 051B		5267	US	30 MAY	HELIOCENTRIC ORBIT					
1971 052A	COSMOS 426	5281	USSR	4 JUN	104.4	74.0	1565	370		
1971 052B		5282	USSR	4 JUN	104.9	74.0	1606	372		
1971 059A	METEOR	5327	USSR	16 JUL	95.6	81.2	556	540		
1971 059B		5328	USSR	16 JUL	96.4	81.2	647	521		
1971 063D	APOLLO 15 SUBSATELLITE	5377	US	26 JUL	SELENOCENTRIC ORBIT					
1971 067B	OV1-21	5397	US	7 AUG	101.8	87.6	905	779		
1971 067E		5398	US	7 AUG	101.4	87.6	885	769		
1971 067J		5405	US	7 AUG	100.1	87.6	811	714		
1971 067K		5395	US	7 AUG	101.4	87.6	881	769		
1971 067L		5399	US	7 AUG	100.3	87.6	815	725		
1971 067M		5400	US	7 AUG	100.2	87.6	811	723		
1971 067N		5384	US	7 AUG	101.6	87.6	897	767		
1971 069C		5426	USSR	12 AUG	100.4	49.6	872	680		
1971 071A	EOLE 1	5435	FRANCE	16 AUG	100.2	50.2	870	664		
1971 071B		5438	US	16 AUG	100.1	50.2	868	661		
1971 071C		5440	US	16 AUG	98.8	50.7	789	615		
1971 073B		5449	USSR	2 SEP	SELENOCENTRIC ORBIT					
1971 080A	SHINSEI	5485	JAPAN	28 SEP	113.1	32.1	1869	872		
1971 080B		5498	JAPAN	28 SEP	111.9	32.0	1758	870		
1971 082A	LUNA 19	5488	USSR	28 SEP	SELENOCENTRIC ORBIT					
1971 082C		5490	USSR	28 SEP	SELENOCENTRIC ORBIT					
1971 086A	COSMOS 444	5547	USSR	13 OCT	114.1	74.0	1506	1319		
1971 086B	COSMOS 445	5548	USSR	13 OCT	114.4	74.0	1509	1348		
1971 086C	COSMOS 446	5549	USSR	13 OCT	114.8	74.0	1509	1379		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1971 LAUNCHES (CONT.)										
1971 086D	COSMOS 447	5550	USSR	13 OCT	115.1	74.0	1512	1409		
1971 086E	COSMOS 448	5551	USSR	13 OCT	115.5	74.0	1515	1438		
1971 086F	COSMOS 449	5552	USSR	13 OCT	116.2	74.0	1540	1481		
1971 086G	COSMOS 450	5553	USSR	13 OCT	115.9	74.0	1528	1459		
1971 086H	COSMOS 451	5554	USSR	13 OCT	116.6	74.0	1571	1487		
1971 086J		5555	USSR	13 OCT	117.3	74.0	1622	1501		
1971 087A		5557	US	14 OCT	101.3	99.0	862	781		
1971 087B		5556	US	14 OCT	101.5	99.0	876	780		
1971 089A		5560	US	17 OCT	100.1	92.7	781	748		
1971 093A	PROSPERO	5580	UK	28 OCT	105.4	82.1	1486	535		
1971 093B		5581	UK	28 OCT	105.5	82.1	1496	535		
1971 095A		5587	US	3 NOV	1436.1	7.5	35809	35762		
1971 095B		5588	US	3 NOV	1436.5	7.3	35804	35782		
1971 095C		5589	US	3 NOV	1481.7	7.8	37326	36021		
1971 096A	EXPLORER 45	5598	US	15 NOV	322.8	3.2	18149	272		
1971 096B		5973	US	15 NOV	CURRENT ELEMENTS NOT MAINTAINED					
1971 099A	COSMOS 457	5614	USSR	20 NOV	109.4	74.0	1216	1181		
1971 099B		5615	USSR	20 NOV	109.3	74.0	1209	1175		
1971 110A		5678	US	14 DEC	ELEMENTS NOT AVAILABLE					
1971 110B		5679	US	14 DEC	ELEMENTS NOT AVAILABLE					
1971 110C		5680	US	14 DEC	ELEMENTS NOT AVAILABLE					
1971 110D		5681	US	14 DEC	ELEMENTS NOT AVAILABLE					
1971 110E		5682	US	14 DEC	ELEMENTS NOT AVAILABLE					
1971 111A	COSMOS 465	5683	USSR	15 DEC	104.8	74.0	1005	966		
1971 111B		5685	USSR	15 DEC	104.7	74.0	996	961		
1971 114A	COSMOS 468	5705	USSR	17 DEC	100.6	74.0	797	774		
1971 114B		5707	USSR	17 DEC	100.5	74.0	801	762		
1971 114C		5778	USSR	17 DEC	100.5	74.0	795	770		
1971 114D		5858	USSR	17 DEC	100.4	74.0	789	769		
1971 116A	INTELSAT 4 F-3	5709	ITSO	20 DEC	1444.9	3.5	38205	33711		
1971 117A	COSMOS 469	5721	USSR	25 DEC	104.7	64.5	1003	953		
1971 119A	OREDL 1	5729	USSR	27 DEC	111.4	74.0	2192	392		
1971 119B		5730	USSR	27 DEC	111.1	74.0	2157	393		
1971 120A	METEOR	5731	USSR	29 DEC	102.5	81.3	919	837		
1971 120B		5732	USSR	29 DEC	102.1	81.3	877	839		
1971 120C		8826	USSR	29 DEC	101.7	81.2	855	825		
1971 120D		8827	USSR	29 DEC	102.1	81.3	867	846		
1971 120F		15344	USSR	29 DEC	101.7	81.3	856	817		
1972 LAUNCHES										
1972 003A	INTELSAT 4 F-4	5775	ITSO	23 JAN	1442.4	2.5	35915	35904		
1972 003B		5816	US	23 JAN	653.6	27.8	36438	700		
1972 007B		5836	USSR	14 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1972 009A	COSMOS 475	5846	USSR	25 FEB	104.7	74.0	996	962		
1972 009B		5847	USSR	25 FEB	104.5	74.1	992	946		
1972 010A		5851	US	1 MAR	ELEMENTS NOT AVAILABLE					
1972 010B		5854	US	1 MAR	ELEMENTS NOT AVAILABLE					
1972 011A	COSMOS 476	5852	USSR	1 MAR	95.6	81.2	551	543		
1972 011B		5853	USSR	1 MAR	96.0	81.2	609	522		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1972 LAUNCHES (CONT.)										
1972 012A	PIONEER 10	5860	US	3 MAR	SOLAR SYSTEM ESCAPE TRAJECTORY					
1972 012B		5861	US	3 MAR	HELIOCENTRIC ORBIT					
1972 018A		5903	US	24 MAR	101.5	99.2	868	788		
1972 018B		5904	US	24 MAR	101.4	99.1	861	789		
1972 019A	COSMOS 480	5905	USSR	25 MAR	109.1	83.0	1197	1170		
1972 019B		5907	USSR	25 MAR	108.9	83.0	1191	1161		
1972 022A	METEOR	5917	USSR	30 MAR	102.4	81.2	883	857		
1972 022B		5918	USSR	30 MAR	102.5	81.2	921	834		
1972 023E		6073	USSR	31 MAR	174.3	52.1	7691	220		
1972 029A	PROGNOZ	5941	USSR	14 APR	CURRENT ELEMENTS NOT MAINTAINED					9*
1972 031C	LUNAR MODULE	6005	US	16 APR	SELENOCENTRIC ORBIT					
1972 035A	COSMOS 489	6019	USSR	6 MAY	104.7	74.0	998	961		
1972 035B		6020	USSR	6 MAY	104.5	74.0	987	956		
1972 041A	INTELSAT 4 F-5	6052	ITSO	13 JUN	1438.6	3.6	35855	35816		
1972 041B		6058	US	13 JUN	651.8	26.7	36505	544		
1972 043A	COSMOS 494	6059	USSR	23 JUN	100.6	74.1	792	779		
1972 043B		6061	USSR	23 JUN	100.4	74.1	794	760		
1972 043C		6063	USSR	23 JUN	100.3	74.1	781	764		
1972 043D		6065	USSR	23 JUN	100.5	74.1	798	767		
1972 046A	PROGNOZ 2	6068	USSR	29 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1972 049A	METEOR	6079	USSR	30 JUN	102.7	81.2	896	880		
1972 049B		6080	USSR	30 JUN	102.9	81.2	931	857		
1972 057A	COSMOS 504	6117	USSR	20 JUL	113.9	74.0	1494	1319		
1972 057B	COSMOS 505	6118	USSR	20 JUL	114.3	74.0	1494	1350		
1972 057C	COSMOS 506	6119	USSR	20 JUL	114.6	74.0	1494	1381		
1972 057D	COSMOS 507	6120	USSR	20 JUL	114.9	74.0	1493	1410		
1972 057E	COSMOS 508	6121	USSR	20 JUL	115.3	74.0	1494	1441		
1972 057F	COSMOS 509	6122	USSR	20 JUL	115.6	74.0	1497	1471		
1972 057G	COSMOS 510	6123	USSR	20 JUL	116.0	74.0	1507	1494		
1972 057H	COSMOS 511	6124	USSR	20 JUL	116.4	74.0	1543	1493		
1972 057J		6125	USSR	20 JUL	117.0	74.0	1600	1490		
1972 058A	LANDSAT 1	6126	US	23 JUL	103.1	98.9	910	898		16*
1972 058B	058JJ		US	23 JUL	SEE NOTE 16*					
1972 062A	COSMOS 514	6148	USSR	16 AUG	104.3	83.0	968	951		
1972 062B		6149	USSR	16 AUG	104.2	83.0	963	949		
1972 062C		6277	USSR	16 AUG	104.1	82.9	957	946		
1972 062D		7560	USSR	16 AUG	103.0	83.0	954	842		
1972 065A	COPERNICUS	6153	US	21 AUG	99.4	35.0	737	725		
1972 065B		6155	US	21 AUG	99.2	35.0	758	683		
1972 066A	COSMOS 516	6154	USSR	21 AUG	104.5	64.8	1021	924		
1972 069A	TRIAD OI-1X	6173	US	2 SEP	100.2	90.0	815	723		
1972 069B		6180	US	2 SEP	100.0	90.0	802	715		
1972 069C		6250	US	2 SEP	99.2	89.8	769	667		
1972 072A	COSMOS 520	6192	USSR	19 SEP	715.3	67.5	34355	5876		
1972 072E		6302	USSR	19 SEP	706.7	67.5	33911	5895		
1972 073A	EXPLORER 47	6197	US	23 SEP	CURRENT ELEMENTS NOT MAINTAINED					
1972 074A	COSMOS 521	6206	USSR	29 SEP	104.9	65.8	1006	974		
1972 074B		6207	USSR	29 SEP	104.8	65.8	003	962		
1972 074C		6210	USSR	29 SEP	104.9	65.8	006	974		
1972 076A		6212	US	2 OCT	98.6	98.6	701	684		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1972 LAUNCHES (CONT.)										
1972 076B		6217	US	2 OCT	99.1	98.7	728	706		
1972 076C		6218	US	2 OCT	99.3	98.7	735	714		
1972 076D		6221	US	2 OCT	98.5	98.6	695	678		
1972 079C		6822	US	10 OCT	114.7	95.6	1463	1417		
1972 079D		6823	US	10 OCT	114.8	95.8	1485	1403		
1972 079E		6824	US	10 OCT	114.6	95.5	1444	1431		
1972 082A	NOAA 2	6235	US	15 OCT	114.9	101.5	1453	1447		
1972 082B	AMSAT-OSCAR 6	6236	US	15 OCT	114.9	101.5	1453	1447		
1972 082C		6237	US	15 OCT	109.2	102.8	1466	914		
1972 085A	METEOR	6256	USSR	26 OCT	102.4	81.2	884	856		
1972 085B		6257	USSR	26 OCT	102.5	81.2	917	834		
1972 087A	COSMOS 528	6262	USSR	1 NOV	114.1	74.0	1466	1364		
1972 087B	COSMOS 529	6264	USSR	1 NOV	114.5	74.0	1466	1400		
1972 087C	COSMOS 530	6265	USSR	1 NOV	113.8	74.0	1466	1331		
1972 087D	COSMOS 531	6266	USSR	1 NOV	114.7	74.0	1468	1418		
1972 087E	COSMOS 532	6267	USSR	1 NOV	113.4	74.0	1465	1298		
1972 087F	COSMOS 533	6268	USSR	1 NOV	113.6	74.0	1466	1315		
1972 087G	COSMOS 534	6269	USSR	1 NOV	113.9	74.0	1465	1347		
1972 087H	COSMOS 535	6270	USSR	1 NOV	114.3	74.0	1467	1381		
1972 087J		6271	USSR	1 NOV	116.6	74.0	1592	1464		
1972 089A		6275	US	9 NOV	101.4	98.9	852	795		
1972 089B		6276	US	9 NOV	101.5	98.9	859	804		
1972 090A	ANIK A1	6278	CANADA	10 NOV	1455.1	6.0	49252	23065		
1972 097A	NIMBUS 5	6305	US	11 DEC	107.1	99.5	1099	1087		
1972 097B		6306	US	11 DEC	111.7	99.8	1515	1098		
1972 101A		6317	US	20 DEC	CURRENT ELEMENTS NOT MAINTAINED					
1972 101B		6318	US	20 DEC	CURRENT ELEMENTS NOT MAINTAINED					
1972 102A	COSMOS 539	6319	USSR	21 DEC	112.9	74.0	1378	1340		
1972 102B		6320	USSR	21 DEC	112.7	74.0	1371	1334		
1972 104A	COSMOS 540	6323	USSR	25 DEC	100.5	74.1	798	769		
1972 104B		6324	USSR	25 DEC	100.2	74.1	777	762		
1972 104C		6391	USSR	25 DEC	99.9	74.1	764	744		
1972 104D		6396	USSR	25 DEC	99.9	74.1	765	741		
1972 106B		6329	USSR	28 DEC	92.9	81.2	440	388		
1973 LAUNCHES										
1973 005A	COSMOS 546	6350	USSR	26 JAN	96.2	50.7	590	558		
1973 005B		6351	USSR	26 JAN	93.0	50.7	430	408		
1973 009A	PROGNOZ 3	6364	USSR	15 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1973 013A		6380	US	6 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1973 015A	METEOR	6392	USSR	20 MAR	102.4	81.3	884	863		
1973 015B		6393	USSR	20 MAR	102.6	81.3	925	835		
1973 019A	PIONEER 11	6421	US	6 APR	SOLAR SYSTEM ESCAPE TRAJECTORY					
1973 019B		6425	US	6 APR	HELIOCENTRIC ORBIT					
1973 023A	ANIK A2	6437	CANADA	20 APR	1442.9	2.4	35990	35849		
1973 034A	METEOR	6659	USSR	29 MAY	102.3	81.2	886	844		
1973 034B		6660	USSR	29 MAY	102.5	81.2	911	844		
1973 037A	COSMOS 564	6675	USSR	8 JUN	114.6	74.0	1479	1392		
1973 037B	COSMOS 565	6676	USSR	8 JUN	115.3	74.0	1488	1447		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1973 LAUNCHES (CONT.)										
1973 037C	COSMOS 566	6677	USSR	3 JUN	115.0	74.0	1481	1431		
1973 037D	COSMOS 567	6678	USSR	8 JUN	114.8	74.0	1482	1410		
1973 037E	COSMOS 568	6679	USSR	8 JUN	114.4	74.0	1479	1372		
1973 037F	COSMOS 569	6680	USSR	8 JUN	114.2	74.0	1478	1355		
1973 037G	COSMOS 570	6681	USSR	3 JUN	113.9	74.0	1479	1335		
1973 037H	COSMOS 571	6682	USSR	8 JUN	113.7	74.0	1477	1317		
1973 037J		6683	USSR	8 JUN	116.8	74.0	1594	1482		
1973 039A	EXPLORER 49	6686	US	10 JUN	SELENOCENTRIC ORBIT					
1973 039D		6689	US	10 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1973 039F		6725	US	10 JUN	SELENOCENTRIC ORBIT					
1973 039G		6726	US	10 JUN	SELENOCENTRIC ORBIT					
1973 040A		6691	US	12 JUN	ELEMENTS NOT AVAILABLE					
1973 040B		11940	US	12 JUN	ELEMENTS NOT AVAILABLE					
1973 042A	COSMOS 574	6707	USSR	20 JUN	105.0	82.9	1009	977		
1973 042B		6708	USSR	20 JUN	104.9	82.9	997	978		
1973 047A	MARS 4	6742	USSR	21 JUL	HELIOCENTRIC ORBIT					
1973 049A	MARS 5	6754	USSR	25 JUL	AREOCENTRIC ORBIT					
1973 052A	MARS 6	6768	USSR	5 AUG	AREOCENTRIC ORBIT					
1973 053A	MARS 7	6776	USSR	9 AUG	HELIOCENTRIC ORBIT					
1973 053D	CAPSULE	7224	USSR	9 AUG	HELIOCENTRIC ORBIT					
1973 054A		6787	US	17 AUG	101.2	98.5	836	792		
1973 054B		6788	US	17 AUG	101.3	98.5	839	796		
1973 056A		6791	US	21 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1973 056B		6792	US	21 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1973 058A	INTELSAT 4 F-7	6796	ITSO	23 AUG	1459.9	3.4	37636	34867		
1973 058B		6797	US	23 AUG	653.5	27.1	36674	457		
1973 064A	COSMOS 585	6825	USSR	3 SEP	113.5	74.0	1402	1373		
1973 064B		6826	USSR	3 SEP	113.4	74.0	1404	1357		
1973 065A	COSMOS 586	6828	USSR	14 SEP	104.7	82.9	1002	961		
1973 065B		6829	USSR	14 SEP	104.6	82.9	993	959		
1973 069A	COSMOS 588	6845	USSR	2 OCT	115.3	74.0	1491	1446		
1973 069B	COSMOS 589	6846	USSR	2 OCT	114.9	74.0	1485	1413		
1973 069C	COSMOS 590	6847	USSR	2 OCT	115.1	74.0	1485	1431		
1973 069D	COSMOS 591	6848	USSR	2 OCT	114.1	74.0	1484	1344		
1973 069E	COSMOS 592	6849	USSR	2 OCT	113.9	74.0	1482	1328		
1973 069F	COSMOS 593	6850	USSR	2 OCT	114.3	74.0	1483	1362		
1973 069G	COSMOS 594	6851	USSR	2 OCT	114.5	74.0	1484	1379		
1973 069H	COSMOS 595	6852	USSR	2 OCT	114.7	74.0	1483	1397		
1973 069J		6853	USSR	2 OCT	117.1	74.0	1621	1482		
1973 078A	EXPLORER 50	6893	US	26 OCT	ELEMENTS NOT AVAILABLE					
1973 078C		6895	US	26 OCT	105.4	28.9	1677	353		
1973 078D		6896	US	26 OCT	CURRENT ELEMENTS NOT MAINTAINED					
1973 080A	COSMOS 604	6907	USSR	29 OCT	95.7	81.2	560	542		
1973 080B		6908	USSR	29 OCT	95.8	81.2	594	521		
1973 081A	NNSS 30201	6909	US	30 OCT	105.3	90.0	1133	887		
1973 081B		6910	US	30 OCT	105.4	90.0	1134	888		
1973 084A	COSMOS 606	6916	USSR	2 NOV	717.0	67.6	35550	4765		
1973 084D		693[illegible]	USSR	2 NOV	706.5	67.4	35209	4589		
1973 085A	MARINER 10	6919	US	3 NOV	HELIOCENTRIC ORBIT					
1973 086A	NOAA 3	6920	US	6 NOV	116.1	101.8	1508	1499		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1973 LAUNCHES (CONT.)										
1973 086B - 086GR			US	6 NOV	SEE NOTE		17*			17*
1973 088D		6938	US	10 NOV	114.5	96.9	1454	1413		
1973 088E		7559	US	10 NOV	114.6	96.8	1476	1402		
1973 097A	MOLNIYA 1-26	6958	USSR	30 NOV	647.9	63.4	36742	107		
1973 097D		7178	USSR	30 NOV	733.2	63.9	40902	209		
1973 098A	COSMOS 614	6965	USSR	4 DEC	100.4	74.1	795	758		
1973 098B		6966	USSR	4 DEC	100.3	74.1	790	754		
1973 098C		6967	USSR	4 DEC	99.7	74.1	761	729		
1973 098D		9569	USSR	4 DEC	100.4	74.1	791	759		
1973 100A		6973	US	13 DEC	1329.6	3.0	36335	31014		
1973 100B		6974	US	13 DEC	1436.1	6.3	35791	35781		
1973 100D		6976	US	13 DEC	1515.0	6.9	38424	36210		
1973 104A	COSMOS 617	6985	USSR	19 DEC	113.9	74.0	1482	1332		
1973 104B	COSMOS 618	6986	USSR	19 DEC	115.2	74.0	1485	1441		
1973 104C	COSMOS 619	6987	USSR	19 DEC	115.0	74.0	1486	1422		
1973 104D	COSMOS 620	6988	USSR	19 DEC	115.4	74.0	1492	1456		
1973 104E	COSMOS 621	6989	USSR	19 DEC	114.7	74.0	1483	1404		
1973 104F	COSMOS 622	6990	USSR	19 DEC	114.3	74.0	1482	1368		
1973 104G	COSMOS 623	6991	USSR	19 DEC	114.5	74.0	1483	1385		
1973 104H	COSMOS 624	6992	USSR	19 DEC	114.1	74.0	1483	1349		
1973 104J		6993	USSR	19 DEC	117.0	74.0	1620	1473		
1973 106D		7372	USSR	25 DEC	723.4	63.8	40493	140		
1973 107A	OREOL 2	7003	USSR	26 DEC	106.1	74.0	1701	393		
1973 107B		7004	USSR	26 DEC	105.7	74.0	1668	387		
1973 108A	COSMOS 626	7005	USSR	27 DEC	104.0	65.4	992	899		
1973 109A	COSMOS 627	7008	USSR	29 DEC	104.9	82.9	1014	966		
1973 109B		7009	USSR	29 DEC	104.6	82.9	990	963		
1974 LAUNCHES										
1974 001A	COSMOS 628	7094	USSR	17 JAN	104.7	83.0	1009	952		
1974 001B		7095	USSR	17 JAN	104.5	83.0	999	946		
1974 011A	METEOR	7209	USSR	5 MAR	102.0	81.2	882	825		
1974 011B		7210	USSR	5 MAR	102.0	81.2	915	795		
1974 013A	UK-X4	7213	UK	9 MAR	100.7	97.8	892	687		
1974 013B		7226	US	9 MAR	100.7	97.8	887	697		
1974 015A		7216	US	16 MAR	101.2	99.1	860	767		
1974 015B		7219	US	16 MAR	101.3	99.1	872	772		
1974 017A	COSMOS 637	7229	USSR	26 MAR	1428.8	7.4	35818	35468		
1974 017F		11567	USSR	26 MAR	1425.8	7.4	35790	35380		
1974 020B		7244	US	10 APR	ELEMENTS NOT AVAILABLE					
1974 022A	WESTAR 1	7250	US	13 APR	1440.9	1.7	39435	32326		
1974 024A	COSMOS 641	7265	USSR	23 APR	114.5	74.0	1480	1385		
1974 024B	COSMOS 642	7266	USSR	23 APR	113.7	74.0	1478	1316		
1974 024C	COSMOS 643	7267	USSR	23 APR	114.1	74.0	1480	1350		
1974 024D	COSMOS 644	7268	USSR	23 APR	113.9	74.0	1480	1332		
1974 024E	COSMOS 645	7269	USSR	23 APR	114.3	74.0	1480	1366		
1974 024F	COSMOS 646	7270	USSR	23 APR	114.7	74.0	1482	1402		
1974 024G	COSMOS 647	7271	USSR	23 APR	114.9	74.0	1481	1421		
1974 024H	COSMOS 646	7272	USSR	23 APR	115.1	74.0	1487	1436		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1974 LAUNCHES (CONT.)										
1974 024J		7273	USSR	25 APR	117.0	74.0	1605	1485		
1974 025A	METEOR	7274	USSR	24 APR	102.4	81.2	838	853		
1974 025B		7275	USSR	24 APR	102.5	81.2	918	833		
1974 026A	MOLNIYA 2-9	7276	USSR	25 APR	717.6	63.3	38617	1728		
1974 026E		7373	USSR	26 APR	732.6	63.6	39315	1768		
1974 028A	COSMOS 650	7281	USSR	29 APR	113.4	74.0	1398	1365		
1974 028B		7284	USSR	29 APR	113.2	74.0	1388	1361		
1974 029A	COSMOS 651	7291	USSR	16 MAY	103.4	65.0	946	892		
1974 032A	COSMOS 654	7297	USSR	17 MAY	104.4	64.9	1002	931		
1974 033A	SMS 1	7298	US	17 MAY	1452.2	7.1	36405	36185		
1974 037A	LUNA 22	7315	USSR	29 MAY	SELENOCENTRIC ORBIT					
1974 039A	ATS 6	7319	US	30 MAY	1412.1	6.4	35457	35174		
1974 039C		7324	US	30 MAY	1430.6	6.4	35807	35551		
1974 044A	COSMOS 660	7337	USSR	13 JUN	106.6	83.0	1746	387		
1974 044B		7338	USSR	13 JUN	105.1	83.0	1605	393		
1974 048A	COSMOS 663	7349	USSR	27 JUN	104.7	83.0	1001	961		
1974 048B		7350	USSR	27 JUN	104.6	82.9	988	960		
1974 050A	COSMOS 665	7352	USSR	29 JUN	716.9	66.9	38170	2139		
1974 050C		7354	USSR	29 JUN	707.4	66.8	38053	1788		
1974 052A	METEOR	7363	USSR	9 JUL	103.0	81.2	912	884		
1974 052B		7364	USSR	9 JUL	102.5	81.2	909	847		
1974 054A		7369	US	14 JUL	468.7	125.1	13761	13458		
1974 054C		8599	US	14 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1974 056A	MOLNIYA 2-10	7376	USSR	23 JUL	717.7	63.9	38709	1643		
1974 056D		7382	USSR	23 JUL	733.9	64.3	38826	2321		
1974 060A	MOLNIYA 1-5	7392	USSR	29 JUL	1665.8	4.8	44412	35930		
1974 063A		7411	US	9 AUG	101.4	98.6	858	791		
1974 063B		7412	US	9 AUG	101.5	98.6	862	792		
1974 066A	COSMOS 673	7417	USSR	16 AUG	95.4	81.2	547	532		
1974 066B		7413	USSR	16 AUG	96.1	81.2	606	535		
1974 066C		8424	USSR	16 AUG	94.8	81.2	515	506		
1974 069A	COSMOS 675	7424	USSR	29 AUG	113.6	74.1	1421	1362		
1974 069B		7426	USSR	29 AUG	113.5	74.1	1420	1352		
1974 071A	COSMOS 676	7433	USSR	11 SEP	100.8	74.1	806	784		
1974 071B		7434	USSR	11 SEP	100.6	74.1	805	773		
1974 071C		8755	USSR	11 SEP	100.4	74.1	785	773		
1974 071D		8829	USSR	11 SEP	100.9	74.1	816	783		
1974 072A	COSMOS 677	7435	USSR	19 SEP	114.4	74.0	1464	1395		
1974 072B	COSMOS 678	7436	USSR	19 SEP	115.9	74.0	1530	1465		
1974 072C	COSMOS 679	7437	USSR	19 SEP	115.7	74.0	1508	1465		
1974 072D	COSMOS 680	7438	USSR	19 SEP	115.5	74.0	1489	1465		
1974 072E	COSMOS 681	7439	USSR	19 SEP	115.3	74.0	1471	1463		
1974 072F	COSMOS 682	7440	USSR	19 SEP	115.1	74.0	1465	1450		
1974 072G	COSMOS 683	7441	USSR	19 SEP	114.9	74.0	1465	1432		
1974 072H	COSMOS 684	7442	USSR	19 SEP	114.7	74.0	1465	1413		
1974 072J		7443	USSR	19 SEP	117.7	74.0	1683	1472		
1974 075A	WESTAR 2	7466	US	10 OCT	1436.1	1.7	35788	35785		
1974 075C		7468	US	10 OCT	412.8	24.5	23742	229		
1974 079A	COSMOS 689	7476	USSR	18 OCT	105.0	82.9	1015	969		
1974 079B		7477	USSR	18 OCT	104.8	82.9	1011	961		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1974 LAUNCHES (CONT.)										
1974 081A	MOLNIYA 1-26	7430	USSR	24 OCT	717.6	64.2	40017	330		
1974 081B		7435	USSR	24 OCT	732.1	64.6	40531	525		
1974 083A	METEOR	7490	USSR	23 OCT	102.3	81.2	898	833		
1974 083B		7493	USSR	23 OCT	102.4	81.2	904	838		
1974 089A	NOAA 4	7529	US	15 NOV	114.9	101.5	1456	1444		
1974 089B	AMSAT-OSCAR 7	7530	US	15 NOV	114.8	101.4	1456	1438		
1974 089C	INTASAT	7531	SPAIN	15 NOV	114.8	101.5	1457	1440		
1974 089D - 089EU			US	15 NOV	SEE NOTE	18*				18*
1974 092A	MOLNIYA 3-1	7540	USSR	21 NOV	717.6	64.3	40008	338		
1974 092B		7545	USSR	21 NOV	733.7	64.5	40679	457		
1974 093A	INTELSAT 4 F-3	7544	ITSO	21 NOV	1436.2	0.8	35790	35787		
1974 093B		7543	US	21 NOV	653.2	26.1	36499	621		
1974 094A	SKYNET 2B	7547	UK	23 NOV	1436.0	5.2	35798	35769		
1974 094B		7550	US	23 NOV	105.4	28.3	1731	298		
1974 097A	HELIOS 1	7567	FRG	10 DEC	HELIOCENTRIC ORBIT					
1974 097B		7568	US	10 DEC	CURRENT ELEMENTS NOT MAINTAINED					
1974 097C		7569	US	10 DEC	HELIOCENTRIC ORBIT					
1974 097D		7570	FRG	10 DEC	HELIOCENTRIC ORBIT					
1974 099A	METEOR	7574	USSR	17 DEC	102.2	81.2	882	840		
1974 099B		7575	USSR	17 DEC	102.2	81.3	907	815		
1974 101A	SYMPHONIE-A	7573	FR/FRG	19 DEC	1435.4	2.8	37410	34135		
1974 101B		9330	US	19 DEC	666.0	13.3	37408	360		
1974 102A	MOLNIYA 2-11	7533	USSR	21 DEC	717.7	63.1	39923	426		
1974 102B		7536	USSR	21 DEC	733.9	63.6	40760	386		
1974 105A	COSMOS 700	7593	USSR	26 DEC	104.6	82.9	994	959		
1974 105B		7594	USSR	26 DEC	104.5	82.9	983	959		
1975 LAUNCHES										
1975 004A	LANDSAT 2	7615	US	22 JAN	103.1	99.0	914	900	137.860, 2229.500, 2265.500, 2287.500	4*
1975 004B - 004HG			US	22 JAN	SEE NOTE	19*				19*
1975 007A	COSMOS 706	7625	USSR	30 JAN	717.5	68.1	35522	4820		
1975 007B		7629	USSR	30 JAN	716.5	68.1	35602	4686		
1975 009A	MOLNIYA 2-12	7641	USSR	6 FEB	714.7	64.1	40003	196		
1975 009B		7653	USSR	6 FEB	733.3	64.6	40770	346		
1975 010A	STARLETTE	7646	FRANCE	6 FEB	104.2	49.8	1108	805		
1975 010B		7647	FRANCE	6 FEB	104.4	49.8	1131	802		
1975 010C		7654	FRANCE	6 FEB	103.8	49.8	1079	800		
1975 010D		7655	FRANCE	6 FEB	103.9	49.8	1036	799		
1975 010E		7659	FRANCE	6 FEB	104.1	49.8	1102	799		
1975 011A	SMS 2	7648	US	6 FEB	1448.9	3.6	37334	34739		
1975 012A	COSMOS 708	7663	USSR	12 FEB	113.5	69.2	1407	1367		
1975 012B		7665	USSR	12 FEB	113.4	69.2	1396	1364		
1975 016A	COSMOS 711	7678	USSR	28 FEB	115.4	74.0	1491	1459		
1975 016B	COSMOS 712	7679	USSR	28 FEB	114.9	74.0	1487	1409		
1975 016C	COSMOS 713	7680	USSR	28 FEB	114.7	74.0	1485	1394		
1975 016D	COSMOS 714	7681	USSR	28 FEB	115.2	74.0	1489	1442		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1975 LAUNCHES (CONT.)										
1975 016E	COSMOS 715	7682	USSR	28 FEB	115.7	74.0	1503	1467		
1975 016F	COSMOS 716	7683	USSR	28 FEB	115.9	74.0	1512	1478		
1975 016G	COSMOS 717	7684	USSR	28 FEB	116.1	74.0	1533	1478		
1975 016H	COSMOS 718	7685	USSR	28 FEB	115.0	74.0	1487	1427		
1975 016J		7686	USSR	28 FEB	117.9	74.0	1718	1457		
1975 017A		7687	US	10 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1975 017B		7688	US	10 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1975 023A	METEOR	7714	USSR	1 APR	102.4	81.2	887	856		
1975 023B		7715	USSR	1 APR	102.5	81.2	912	837		
1975 024A	COSMOS 723	7718	USSR	2 APR	103.7	64.7	974	888		
1975 025A	COSMOS 724	7727	USSR	7 APR	103.0	65.6	949	849		
1975 027A	GEOS 3	7734	US	9 APR	101.7	115.0	858	816		
1975 027B		7735	US	9 APR	101.4	115.0	866	783		
1975 027C		10728	US	9 APR	101.6	115.2	861	809		
1975 027E		10730	US	9 APR	103.7	115.0	1002	860		
1975 028A	COSMOS 725	7736	USSR	11 APR	104.5	83.0	991	951		
1975 028B		7737	USSR	11 APR	104.4	83.0	982	951		
1975 029A	MOLNIYA 3-2	7738	USSR	14 APR	717.8	63.4	39826	529		
1975 029D		7741	USSR	14 APR	733.0	64.0	40465	638		
1975 033A	ARIABAT	7752	INDIA	19 APR	95.2	50.7	539	514		
1975 033B		7753	USSR	19 APR	93.4	50.7	452	425		
1975 034A	COSMOS 729	7768	USSR	22 APR	104.9	83.0	1005	971		
1975 034B		7769	USSR	22 APR	104.8	83.0	998	970		
1975 036A	MOLNIYA 1-29	7780	USSR	29 APR	717.8	63.8	38184	2169		
1975 036D		7800	USSR	29 APR	732.8	64.2	38877	2217		
1975 038A	ANIK A3	7790	CANADA	7 MAY	1439.8	0.9	35873	35846		
1975 038D		7794	US	7 MAY	487.9	24.5	28053	252		
1975 042A	INTELSAT 4 F-1	7815	ITSO	22 MAY	1436.2	0.8	35791	35786		
1975 042B		7832	US	22 MAY	654.2	25.8	36615	553		
1975 043A		7816	US	24 MAY	ELEMENTS NOT AVAILABLE					
1975 043B		7817	US	24 MAY	ELEMENTS NOT AVAILABLE					
1975 045A	COSMOS 732	7820	USSR	28 MAY	114.6	74.0	1469	1401		
1975 045B	COSMOS 733	7822	USSR	28 MAY	116.2	74.0	1552	1468		
1975 045C	COSMOS 734	7823	USSR	28 MAY	115.0	74.0	1470	1441		
1975 045D	COSMOS 735	7824	USSR	28 MAY	115.2	74.0	1472	1459		
1975 045E	COSMOS 736	7825	USSR	28 MAY	115.5	74.0	1483	1468		
1975 045F	COSMOS 737	7826	USSR	28 MAY	115.9	74.0	1527	1468		
1975 045G	COSMOS 738	7827	USSR	28 MAY	115.7	74.0	1507	1467		
1975 045H	COSMOS 739	7828	USSR	28 MAY	114.8	74.0	1470	1420		
1975 045J		7831	USSR	28 MAY	117.9	74.0	1692	1484		
1975 049A	MOLNIYA 1-30	7903	USSR	5 JUN	717.7	64.0	39464	887		
1975 049B	SRET 2	7910	FRANCE	5 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1975 049F		8548	USSR	5 JUN	730.5	64.4	39683	1294		
1975 050A	VENERA 9	7915	USSR	8 JUN	HELIOCENTRIC ORBIT					
1975 051C	SSU 1	7937	US	8 JUN	113.5	95.1	1394	1383		
1975 051D		7938	US	8 JUN	113.2	95.0	1402	1344		
1975 051E		7939	US	8 JUN	113.9	95.2	1424	1384		
1975 052A	NIMBUS 6	7924	US	12 JUN	107.4	99.7	1112	1099		
1975 052B		7946	US	12 JUN	107.2	99.9	1101	1090		
1975 054A	VENERA 10	7947	USSR	14 JUN	HELIOCENTRIC ORBIT					

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1975 LAUNCHES (CONT.)										
1975 055A		7963	US	18 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1975 055B		7964	US	18 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1975 056A	COSMOS 744	7968	USSR	20 JUN	95.6	81.2	561	535		
1975 056B		7969	USSR	20 JUN	96.2	81.3	605	543		
1975 057A	OSO 8	7970	US	21 JUN	91.9	32.9	368	365		
1975 063A	MOLNIYA 2-13	8015	USSR	8 JUL	717.2	64.1	38110	2217		
1975 063D		8018	USSR	8 JUL	732.9	64.2	38810	2289		
1975 064A	METEOR 2	8026	USSR	11 JUL	102.3	81.3	880	850		
1975 064B		8027	USSR	11 JUL	102.4	81.3	912	833		
1975 064C		8039	USSR	11 JUL	102.3	81.3	884	849		
1975 064D		8110	USSR	11 JUL	102.2	81.3	891	829		
1975 072A	COS-B	8062	ESA	9 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1975 072B		8063	US	9 AUG	129.4	89.2	3873	324		
1975 074A	COSMOS 755	8072	USSR	14 AUG	104.8	82.9	1008	965		
1975 074B		8073	USSR	14 AUG	104.7	82.9	997	964		
1975 075A	VIKING ORBITER 1	8108	US	20 AUG	AREOCENTRIC ORBIT					
1975 075B		8111	US	20 AUG	HELIOCENTRIC ORBIT					
1975 076A	COSMOS 756	8127	USSR	22 AUG	95.9	81.2	568	557		
1975 076B		8128	USSR	22 AUG	96.4	81.2	620	548		
1975 077A	SYMPHONIE-B	8132	FR/FRG	27 AUG	1436.1	5.3	35828	35747		
1975 077B		8133	US	27 AUG	106.3	25.3	1702	407		
1975 077C		8134	US	27 AUG	655.8	13.9	36884	369		
1975 079A	MOLNIYA 1-31	8187	USSR	2 SEP	714.4	64.1	40000	185		
1975 079E		8274	USSR	2 SEP	736.0	64.7	40706	543		
1975 081A	MOLNIYA 2-14	8195	USSR	9 SEP	717.8	63.9	38185	2172		
1975 081D		8418	USSR	9 SEP	733.8	64.2	38897	2243		
1975 082A	KIKU	8197	JAPAN	9 SEP	106.0	47.0	1104	976		
1975 082B		8352	JAPAN	9 SEP	105.9	47.0	1102	975		
1975 083A	VIKING ORBITER 2	8199	US	9 SEP	AREOCENTRIC ORBIT					
1975 083B		8272	US	9 SEP	HELIOCENTRIC ORBIT					
1975 086A	COSMOS 761	8285	USSR	17 SEP	114.6	74.0	1479	1398		
1975 086B	COSMOS 762	8286	USSR	17 SEP	115.1	74.0	1482	1437		
1975 086C	COSMOS 763	8287	USSR	17 SEP	115.8	74.0	1508	1471		
1975 086D	COSMOS 764	8288	USSR	17 SEP	116.0	74.0	1524	1476		
1975 086E	COSMOS 765	8289	USSR	17 SEP	116.3	74.0	1548	1476		
1975 086F	COSMOS 766	8290	USSR	17 SEP	114.9	74.0	1482	1417		
1975 086G	COSMOS 767	8291	USSR	17 SEP	115.3	74.0	1485	1453		
1975 086H	COSMOS 768	8292	USSR	17 SEP	115.5	74.0	1490	1469		
1975 086J		8295	USSR	17 SEP	117.8	74.0	1682	1480		
1975 087A	METEOR	8293	USSR	18 SEP	102.1	81.3	920	799		
1975 087B		8294	USSR	18 SEP	102.3	81.3	915	820		
1975 089A	COSMOS 770	8325	USSR	24 SEP	109.1	83.0	1206	1162		
1975 089B		8326	USSR	24 SEP	109.0	83.0	1196	1161		
1975 091A	INTELSAT 4A F-1	8330	ITSO	26 SEP	1436.1	0.8	35789	35783		
1975 091B		8331	US	26 SEP	654.2	21.8	36622	548		
1975 094A	COSMOS 773	8343	USSR	30 SEP	100.6	74.1	797	778		
1975 094B		8344	USSR	30 SEP	100.5	74.1	799	763		
1975 094C		8346	USSR	30 SEP	99.7	74.1	757	728		
1975 094D		14865	USSR	30 SEP	100.7	74.0	794	786		
1975 097A	COSMOS 775	8357	USSR	8 OCT	1436.5	6.9	35821	35765		

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1975 LAUNCHES (CONT.)										
1975 097E		8415	USSR	6 OCT	CURRENT ELEMENTS NOT MAINTAINED					
1975 097F		11676	USSR	8 OCT	1438.5	6.9	35922	35744		
1975 099A	TIP 2	8361	US	12 OCT	96.9	90.4	684	532		
1975 100A	GOES 1	8366	US	16 OCT	1436.0	4.9	35801	35771	136.380	4*
1975 100C		8368	US	16 OCT	212.7	23.4	10597	251		
1975 103A	COSMOS 778	8419	USSR	4 NOV	104.8	83.0	1001	967		
1975 103B		8421	USSR	4 NOV	104.7	83.0	995	960		
1975 105A	MOLNIYA 3-3	8425	USSR	14 NOV	717.8	64.0	38070	2284		
1975 105B		8462	USSR	14 NOV	733.8	64.3	38808	2335		
1975 112A	COSMOS 783	8458	USSR	23 NOV	100.8	74.1	803	786		
1975 112B		8459	USSR	23 NOV	100.6	74.1	799	774		
1975 112C		8757	USSR	23 NOV	100.3	74.0	775	768		
1975 112D		14801	USSR	23 NOV	100.9	74.1	809	795		
1975 116A	COSMOS 785	8473	USSR	12 DEC	104.2	65.1	1009	904		
1975 117A	RCA SATCOM I	8476	US	13 DEC	1445.9	0.9	36082	35875		
1975 116A		8482	US	14 DEC	ELEMENTS NOT AVAILABLE					
1975 116C		8516	US	14 DEC	ELEMENTS NOT AVAILABLE					
1975 116D		8517	US	14 DEC	CURRENT ELEMENTS NOT MAINTAINED					
1975 121A	MOLNIYA 2-15	8492	USSR	17 DEC	718.4	63.9	39684	702		
1975 121D		8529	USSR	17 DEC	731.2	64.2	40210	801		
1975 122A	PROGNOZ 4	8510	USSR	22 DEC	CURRENT ELEMENTS NOT MAINTAINED					
1975 123A	RADUGA 1	8513	USSR	22 DEC	1436.3	1.4	35847	35733		
1975 123D		8546	USSR	22 DEC	394.0	46.3	22587	263		
1975 123E		8547	USSR	22 DEC	503.3	46.6	28853	310		
1975 123F		11568	USSR	22 DEC	1434.7	0.4	39748	31770		
1975 124A	METEOR	8519	USSR	25 DEC	102.2	81.2	886	839		
1975 124B		8520	USSR	25 DEC	102.3	81.3	904	831		
1975 125A	MOLNIYA 3-4	8521	USSR	27 DEC	718.4	63.9	39747	635		
1975 125F		8600	USSR	27 DEC	729.7	64.3	40159	779		
1976 LAUNCHES										
1976 003A	HELIOS 2	8582	FRG	15 JAN	HELIOCENTRIC ORBIT					
1976 003B		8583	US	15 JAN	HELIOCENTRIC ORBIT					
1976 003C		8584	US	15 JAN	HELIOCENTRIC ORBIT					
1976 004A	CTS	8585	CANADA	17 JAN	1436.8	5.6	35872	35729		
1976 005A	COSMOS 789	8591	USSR	20 JAN	104.9	83.0	1011	968		
1976 005B		8597	USSR	20 JAN	104.8	83.0	1002	965		
1976 006A	MOLNIYA 1-32	8601	USSR	22 JAN	720.6	63.9	38750	1741		
1976 006D		8701	USSR	22 JAN	695.4	64.1	37310	1934		
1976 008A	COSMOS 791	8607	USSR	28 JAN	114.7	74.1	1485	1399		
1976 008B	COSMOS 792	8608	USSR	28 JAN	115.1	74.1	1489	1433		
1976 008C	COSMOS 793	8609	USSR	28 JAN	114.9	74.1	1489	1415		
1976 008D	COSMOS 794	8610	USSR	28 JAN	115.3	74.1	1492	1449		
1976 008E	COSMOS 795	8611	USSR	28 JAN	115.6	74.1	1496	1465		
1976 008F	COSMOS 796	8612	USSR	28 JAN	115.8	74.1	1513	1470		
1976 008G	COSMOS 797	8613	USSR	28 JAN	116.0	74.0	1527	1477		
1976 008H	COSMOS 798	8614	USSR	28 JAN	116.3	74.1	1552	1476		
1976 008J		8615	USSR	28 JAN	117.9	74.1	1694	1481		
1976 010A	INTELSAT 4A F-2	8620	ITSO	29 JAN	1436.1	0.9	35816	35756		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1976 LAUNCHES (CONT.)										
1976 010B		8621	US	29 JAN	654.5	21.5	36599	563		
1976 011A	COSMOS 800	8645	USSR	3 FEB	105.0	83.0	1008	978		
1976 011B		8646	USSR	3 FEB	104.9	83.0	992	982		
1976 014A	COSMOS 803	8648	USSR	12 FEB	95.8	65.8	593	525		
1976 017A	MARISAT 1	8697	US	19 FEB	1436.1	4.8	35792	35782		
1976 017C		8702	US	19 FEB	216.8	24.4	10890	261		
1976 019A	UME	8709	JAPAN	29 FEB	105.1	69.7	1007	989		
1976 019B		8710	JAPAN	29 FEB	105.1	69.7	1010	991		
1976 021A	MOLNIYA 1-33	8741	USSR	11 MAR	717.5	63.7	39757	585		
1976 021D		9411	USSR	11 MAR	731.1	64.0	40359	650		
1976 022A	COSMOS 807	8744	USSR	12 MAR	106.8	83.0	1765	390		
1976 022B		8745	USSR	12 MAR	105.3	82.9	1632	380		
1976 023A	LES 8	8746	US	15 MAR	1436.0	23.4	35789	35778		
1976 023B	LES 9	8747	US	15 MAR	1436.1	23.3	35809	35764		
1976 023C	SOLRAD 11A	8748	US	15 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1976 023D	SOLRAD 11B	8749	US	15 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1976 023F		8751	US	15 MAR	1455.6	23.6	36961	35762		
1976 023G		8752	US	15 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1976 023H		8753	US	15 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1976 023J		8832	US	15 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1976 023K		13753	US	15 MAR	1420.9	3.8	35500	35478		
1976 024A	COSMOS 808	8754	USSR	16 MAR	95.8	81.2	570	546		
1976 024B		8755	USSR	16 MAR	96.0	81.3	606	525		
1976 026A	MOLNIYA 1-34	8762	USSR	19 MAR	680.0	63.7	38354	121		
1976 029A	RCA SATCOM II	8774	US	26 MAR	1436.1	0.4	35791	35782		
1976 032A	METEOR	8799	USSR	7 APR	102.1	81.3	887	830		
1976 032B		8800	USSR	7 APR	102.2	81.3	923	806		
1976 035A	NATO III-A	8808	NATO	22 APR	1436.0	3.7	35796	35771		
1976 038A		8818	US	30 APR	ELEMENTS NOT AVAILABLE					
1976 038B		8819	US	30 APR	ELEMENTS NOT AVAILABLE					
1976 038C	SSU-1	8835	US	30 APR	ELEMENTS NOT AVAILABLE					
1976 038D	SSU-2	8836	US	30 APR	ELEMENTS NOT AVAILABLE					
1976 038E		8839	US	30 APR	ELEMENTS NOT AVAILABLE					
1976 038F		8842	US	30 APR	ELEMENTS NOT AVAILABLE					
1976 038G		8843	US	30 APR	ELEMENTS NOT AVAILABLE					
1976 038H		8859	US	30 APR	ELEMENTS NOT AVAILABLE					
1976 038J	SSU-3	8884	US	30 APR	ELEMENTS NOT AVAILABLE					
1976 038K		9795	US	30 APR	ELEMENTS NOT AVAILABLE					
1976 038L		9996	US	30 APR	ELEMENTS NOT AVAILABLE					
1976 039A	LAGEOS	8820	US	4 MAY	225.4	109.9	5946	5837		
1976 039B		8821	US	4 MAY	123.9	109.6	3413	295		
1976 039C		8822	US	4 MAY	225.4	109.9	5943	5835		
1976 039D		14514	US	4 MAY	128.3	110.0	3803	295		
1976 041A	MOLNIYA 3-5	8833	USSR	12 MAY	715.3	64.4	39664	566		
1976 041D		8844	USSR	12 MAY	733.4	64.7	40466	657		
1976 042A	COMSTAR 1	8838	US	13 MAY	1442.5	0.7	35921	35901		
1976 042B		8840	US	13 MAY	648.8	21.9	36258	635		
1976 043A	METEOR	8845	USSR	15 MAY	102.1	81.3	887	829		
1976 043B		8846	USSR	15 MAY	102.3	81.2	907	828		
1976 047A	P 76-5	8860	US	22 MAY	105.5	99.6	1050	985		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1976 LAUNCHES (CONT.)										
1976 047B		8861	US	22 MAY	105.5	99.6	1051	987		
1976 047C		8867	US	22 MAY	106.4	99.4	1116	1002		
1976 047D		8863	US	22 MAY	104.7	100.0	1020	941		
1976 050A		8871	US	2 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1976 050B		8872	US	2 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1976 051A	COSMOS 823	8873	USSR	2 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1976 051B		8874	USSR	2 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1976 053A	MARISAT 2	8882	US	10 JUN	1436.2	2.8	35793	35783		
1976 053F		8910	US	10 JUN	534.9	25.3	30607	289		
1976 054A	COSMOS 825	8889	USSR	15 JUN	114.6	74.0	1484	1394		
1976 054B	COSMOS 826	8890	USSR	15 JUN	116.2	74.0	1543	1479		
1976 054C	COSMOS 827	8891	USSR	15 JUN	114.9	74.0	1487	1411		
1976 054D	COSMOS 828	8892	USSR	15 JUN	115.1	74.0	1486	1431		
1976 054E	COSMOS 829	8893	USSR	15 JUN	115.3	74.0	1489	1448		
1976 054F	COSMOS 830	8894	USSR	15 JUN	115.5	74.0	1491	1466		
1976 054G	COSMOS 831	8895	USSR	15 JUN	115.8	74.0	1506	1472		
1976 054H	COSMOS 832	8896	USSR	15 JUN	116.0	74.0	1518	1480		
1976 054J		8897	USSR	15 JUN	117.9	74.0	1688	1483		
1976 059A		8916	US	26 JUN	ELEMENTS NOT AVAILABLE					
1976 059C		8918	US	26 JUN	ELEMENTS NOT AVAILABLE					
1976 059D		8919	US	26 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1976 061A	COSMOS 836	8923	USSR	29 JUN	100.7	74.1	808	779		
1976 061B		8924	USSR	29 JUN	100.6	74.1	797	777		
1976 061C		9572	USSR	29 JUN	100.2	74.1	771	761		
1976 061D		14815	USSR	29 JUN	100.3	74.1	735	759		
1976 065B		9007	US	8 JUL	ELEMENTS NOT AVAILABLE					
1976 065C		9008	US	8 JUL	ELEMENTS NOT AVAILABLE					
1976 066A	PALAPA 1	9009	INDNSA	8 JUL	1436.1	0.0	35813	35759		
1976 066C		9017	US	8 JUL	444.9	24.5	25612	233		
1976 067A	COSMOS 839	9011	USSR	8 JUL	115.7	65.9	2060	909		
1976 067B - 067BG			USSR	8 JUL	SEE NOTE	20*				20*
1976 069A	COSMOS 841	9022	USSR	15 JUL	100.6	74.0	796	776		
1976 069B		9023	USSR	15 JUL	100.5	74.0	794	766		
1976 069C		9704	USSR	15 JUL	100.3	74.1	778	767		
1976 069D		13499	USSR	15 JUL	101.0	74.1	822	789		
1976 070A	COSMOS 842	9025	USSR	21 JUL	104.8	83.0	1007	964		
1976 070B		9044	USSR	21 JUL	104.7	83.0	989	969		
1976 073A	COMSTAR 2	9047	US	22 JUL	1436.1	0.6	35789	35783		
1976 073B		9329	US	22 JUL	647.0	21.7	36206	594		
1976 074A	MOLNIYA 1-35	9049	USSR	23 JUL	717.6	63.9	39216	1127		
1976 074E		9259	USSR	23 JUL	697.9	64.2	38200	1171		
1976 077A	NOAA 5	9057	US	29 JUL	116.2	101.7	1519	1503		
1976 077B - 077ET			US	29 JUL	SEE NOTE	21*				21*
1976 078A	COSMOS 846	9061	USSR	29 JUL	104.7	82.9	1010	946		
1976 078B		9062	USSR	29 JUL	104.5	82.9	993	949		
1976 080A		9270	US	6 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1976 080B		9271	US	6 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1976 085A	COSMOS 851	9339	USSR	27 AUG	94.2	81.2	498	460		
1976 085B		9390	USSR	27 AUG	95.4	81.2	580	491		
1976 091A	DMSP-F1	9415	US	11 SEP	ELEMENTS NOT AVAILABLE					

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1976 LAUNCHES (CONT.)										
1976 091B		9419	US	11 SEP	ELEMENTS NOT AVAILABLE					
1976 091C		9420	US	11 SEP	ELEMENTS NOT AVAILABLE					
1976 091F		9484	US	11 SEP	ELEMENTS NOT AVAILABLE					
1976 091G		9518	US	11 SEP	ELEMENTS NOT AVAILABLE					
1976 092A	RADUGA 2	9416	USSR	11 SEP	1436.1	4.7	35980	35594		
1976 098A	COSMOS 858	9443	USSR	29 SEP	100.7	74.0	802	780		
1976 098B		9444	USSR	29 SEP	100.6	74.1	796	774		
1976 098C		14816	USSR	29 SEP	101.0	74.0	820	787		
1976 098D		14817	USSR	29 SEP	100.3	74.1	787	756		
1976 101A	MARISAT 3	9478	US	14 OCT	1436.2	4.2	35794	35783		
1976 102A	METEOR	9431	USSR	15 OCT	102.3	81.3	884	847		
1976 102B		9432	USSR	15 OCT	102.4	81.3	916	827		
1976 103A	COSMOS 860	9486	USSR	17 OCT	104.3	64.7	1018	902		
1976 104A	COSMOS 861	9494	USSR	21 OCT	104.3	64.9	987	930		
1976 105A	COSMOS 862	9495	USSR	22 OCT	717.6	67.2	36711	3633		
1976 105B - 105P			USSR	22 OCT	SEE NOTE	22*				22*
1976 107A	EKRAN	9503	USSR	26 OCT	1435.9	5.9	36032	35534		
1976 107F		11569	USSR	26 OCT	1419.3	5.9	35509	35404		
1976 108A	COSMOS 864	9509	USSR	29 OCT	104.7	82.9	1003	960		
1976 108B		9510	USSR	29 OCT	104.6	82.9	994	957		
1976 112A	PROGNOZ 5	9557	USSR	25 NOV	CURRENT ELEMENTS NOT MAINTAINED					
1976 116A	MOLNIYA 2-16	9574	USSR	2 DEC	717.6	64.5	39421	922		
1976 116D		9579	USSR	2 DEC	731.9	64.7	39879	1169		
1976 118A	COSMOS 871	9588	USSR	7 DEC	114.6	74.0	1462	1415		
1976 118B	COSMOS 872	9589	USSR	7 DEC	114.4	74.0	1463	1396		
1976 118C	COSMOS 873	9590	USSR	7 DEC	115.5	74.0	1494	1461		
1976 118D	COSMOS 874	9591	USSR	7 DEC	115.7	74.0	1515	1461		
1976 118E	COSMOS 875	9592	USSR	7 DEC	114.9	74.0	1461	1435		
1976 118F	COSMOS 876	9593	USSR	7 DEC	116.0	74.0	1537	1461		
1976 118G	COSMOS 877	9594	USSR	7 DEC	115.1	74.0	1462	1452		
1976 118H	COSMOS 878	9595	USSR	7 DEC	115.3	74.0	1473	1461		
1976 118J		9598	USSR	7 DEC	117.6	74.0	1684	1463		
1976 120B - 120BC			USSR	9 DEC	SEE NOTE	23*				23*
1976 122A	COSMOS 883	9610	USSR	15 DEC	104.7	83.0	1007	953		
1976 122B		9613	USSR	15 DEC	104.6	83.0	998	952		
1976 126A	COSMOS 886	9634	USSR	27 DEC	111.4	65.8	2092	489		
1976 126B - 126BS			USSR	27 DEC	SEE NOTE	24*				24*
1976 126BR		14799	USSR	27 DEC	123.4	65.8	2559	1106		
1976 126BS		14800	USSR	27 DEC	126.2	65.8	2480	1430		
1976 127A	MOLNIYA 3-6	9635	USSR	28 DEC	700.2	64.8	38331	1100		
1976 127E		9647	USSR	28 DEC	732.3	65.0	39671	1397		
1976 128A	COSMOS 887	9637	USSR	28 DEC	104.7	82.9	1014	943		
1976 128B		9638	USSR	28 DEC	104.5	82.9	997	948		
1977 LAUNCHES										
1977 002A	METEOR 2-2	9661	USSR	6 JAN	102.8	81.3	896	862		
1977 002B		9662	USSR	6 JAN	102.9	81.3	933	854		
1977 002C		9663	USSR	6 JAN	102.7	81.3	892	882		
1977 002D		9664	USSR	6 JAN	102.8	81.3	895	884		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1977 LAUNCHES (CONT.)										
1977 004A	COSMOS 890	9737	USSR	20 JAN	105.0	83.0	1014	976		
1977 004B		9738	USSR	20 JAN	104.9	83.0	999	976		
1977 005A	NATO III-D	9785	NATO	28 JAN	1436.1	3.1	35792	35782		
1977 005B		9786	US	28 JAN	104.0	28.0	1278	620		
1977 005D		9809	US	28 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1977 005E		9810	US	28 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1977 005F		9811	US	28 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1977 007A		9853	US	6 FEB	ELEMENTS NOT AVAILABLE					
1977 007C		9855	US	6 FEB	ELEMENTS NOT AVAILABLE					
1977 007D		9856	US	6 FEB	ELEMENTS NOT AVAILABLE					
1977 010A	MOLNIYA 2-17	9829	USSR	11 FEB	717.6	64.1	38934	1413		
1977 010B		9830	USSR	11 FEB	731.0	64.5	39561	1444		
1977 012A	TANSEI 3	9841	JAPAN	19 FEB	134.1	65.8	3810	792		
1977 012C		9843	JAPAN	19 FEB	134.1	65.7	3808	793		
1977 012E		9931	JAPAN	19 FEB	133.6	65.2	3756	797		
1977 012F		9932	JAPAN	19 FEB	133.7	65.9	3736	778		
1977 012G		9933	JAPAN	19 FEB	134.3	65.6	3807	807		
1977 012H		12857	JAPAN	19 FEB	134.2	66.3	3794	815		
1977 012J		13133	JAPAN	19 FEB	133.4	65.8	3748	794		
1977 013A	COSMOS 894	9846	USSR	21 FEB	104.8	82.9	1008	965		
1977 013B		9848	USSR	21 FEB	104.7	82.9	993	970		
1977 014A	KIKU 2	9852	JAPAN	23 FEB	1436.1	4.1	35793	35781		
1977 014B		9859	JAPAN	23 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1977 015A	COSMOS 895	9853	USSR	26 FEB	95.8	81.2	564	549		
1977 015B		9854	USSR	26 FEB	96.1	81.2	620	523		
1977 018A	PALAPA 2	9862	INDNSA	10 MAR	1437.9	2.1	44607	27037		
1977 021A	MOLNIYA 1-36	9880	USSR	24 MAR	717.7	64.0	38969	1380		
1977 021D		9927	USSR	24 MAR	732.8	64.4	39697	1397		
1977 024A	METEOR	9903	USSR	5 APR	102.3	81.3	889	848		
1977 024B		9904	USSR	5 APR	102.4	81.3	914	834		
1977 024C		9907	USSR	5 APR	103.7	82.9	954	909		
1977 027A	COSMOS 903	9911	USSR	11 APR	718.0	67.3	36145	4220		
1977 027D		9921	USSR	11 APR	724.0	67.6	36518	4143		
1977 027E		10946	USSR	11 APR	CURRENT ELEMENTS NOT MAINTAINED					
1977 029A	ESA-GEOS	9931	ESA	20 APR	734.1	27.6	38408	2750		
1977 029C		9933	US	20 APR	144,0	26.0	5214	233		
1977 032A	MOLNIYA 3-7	9941	USSR	23 APR	717.6	64.2	38932	1414		
1977 034A		10000	US	12 MAY	1489.6	4.2	36903	36751		
1977 034B		10001	US	12 MAY	1436.2	4.0	35792	35782		
1977 034C		10002	US	12 MAY	1507.0	4.4	38421	35903		
1977 036A	COSMOS 909	10010	USSR	19 MAY	117.0	65.9	2107	986		
1977 036B		10011	USSR	19 MAY	116.9	65.9	2095	985		
1977 036C		10013	USSR	19 MAY	117.0	65.9	2106	986		
1977 038A		10016	US	23 MAY	ELEMENTS NOT AVAILABLE					
1977 038B		10017	US	23 MAY	ELEMENTS NOT AVAILABLE					
1977 038C		15422	US	23 MAY	ELEMENTS NOT AVAILABLE					
1977 039A	COSMOS 911	10019	USSR	25 MAY	104.7	82.9	999	963		
1977 039B		10020	USSR	25 MAY	104.6	82.9	996	950		
1977 041A	INTELSAT 4A F-4	10024	ITSO	26 MAY	1436.1	0.1	35792	35780		
1977 041B		10025	US	26 MAY	648.8	21.1	36334	559		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1977 LAUNCHES (CONT.)										
1977 044A	DMSP-F2	10033	US	5 JUN	ELEMENTS NOT AVAILABLE					
1977 044B		10034	US	5 JUN	ELEMENTS NOT AVAILABLE					
1977 044C		10037	US	5 JUN	ELEMENTS NOT AVAILABLE					
1977 044D		10035	US	5 JUN	ELEMENTS NOT AVAILABLE					
1977 047A	COSMOS 917	10059	USSR	16 JUN	716.7	67.7	36384	3914		
1977 047D		10089	USSR	16 JUN	722.5	67.9	36753	3834		
1977 048A	GOES 2	10061	US	16 JUN	1436.0	3.0	35824	35747	136.380	4*
1977 048B		10062	US	16 JUN	108.7	28.4	1756	575		
1977 048F		10439	US	16 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1977 053A		10091	US	23 JUN	717.9	64.6	20261	20099		
1977 053B		10960	US	23 JUN	314.4	64.1	17120	754		
1977 054A	MOLNIYA 1-37	10092	USSR	24 JUN	717.7	64.0	39577	775		
1977 054D		10155	USSR	24 JUN	695.4	64.2	38336	906		
1977 055A	COSMOS 921	10095	USSR	24 JUN	97.5	75.8	675	602		
1977 055B		10096	USSR	24 JUN	97.5	75.8	677	601		
1977 057A	METEOR	10113	USSR	29 JUN	96.0	97.6	586	544		
1977 057B		10114	USSR	29 JUN	97.0	97.6	627	601		
1977 059A	COSMOS 923	10120	USSR	1 JUL	100.8	74.0	807	786		
1977 059B		10121	USSR	1 JUL	100.7	74.0	806	774		
1977 059C		14802	USSR	1 JUL	100.7	74.1	805	781		
1977 059D		14818	USSR	1 JUL	100.5	74.1	791	770		
1977 061A	COSMOS 925	10134	USSR	7 JUL	95.9	81.2	570	550		
1977 061B		10135	USSR	7 JUL	96.2	81.2	613	536		
1977 062A	COSMOS 926	10137	USSR	8 JUL	105.0	82.9	1016	969		
1977 062B		10138	USSR	8 JUL	104.9	82.9	1002	973		
1977 064A	COSMOS 928	10141	USSR	13 JUL	104.6	83.0	1004	949		
1977 064B		10142	USSR	13 JUL	104.5	83.0	1002	941		
1977 065A	HIMAWARI	10143	JAPAN	14 JUL	1436.1	3.1	35798	35777		
1977 065B -	065FS		US	14 JUL	SEE NOTE	25*				25*
1977 068A	COSMOS 931	10150	USSR	20 JUL	718.7	66.9	36758	3642		
1977 068D		10157	USSR	20 JUL	720.7	67.0	36740	3760		
1977 068E		12906	USSR	20 JUL	715.7	67.1	36566	3686		
1977 068F		12996	USSR	20 JUL	704.6	61.1	37814	1885		
1977 068G		14000	USSR	20 JUL	718.6	65.7	36856	3540		
1977 071A	RADUGA 3	10159	USSR	23 JUL	1436.7	5.4	35836	35758		
1977 071F		11570	USSR	23 JUL	1474.5	5.5	38171	34897		
1977 076A	VOYAGER 2	10271	US	20 AUG	SOLAR SYSTEM ESCAPE TRAJECTORY					
1977 076B		10272	US	20 AUG	HELIOCENTRIC ORBIT					
1977 076C		10273	US	20 AUG	HELIOCENTRIC ORBIT					
1977 079A	COSMOS 939	10282	USSR	24 AUG	114.8	74.0	1460	1430		
1977 079B	COSMOS 940	10286	USSR	24 AUG	114.4	74.0	1460	1392		
1977 079C	COSMOS 941	10287	USSR	24 AUG	114.6	74.0	1460	1411		
1977 079D	COSMOS 942	10288	USSR	24 AUG	115.9	74.0	1531	1460		
1977 079E	COSMOS 943	10289	USSR	24 AUG	115.0	74.0	1460	1448		
1977 079F	COSMOS 944	10290	USSR	24 AUG	115.2	74.0	1469	1459		
1977 079G	COSMOS 945	10291	USSR	24 AUG	115.4	74.0	1490	1459		
1977 079H	COSMOS 946	10292	USSR	24 AUG	115.6	74.0	1509	1459		
1977 079J		10293	USSR	24 AUG	117.5	74.0	1676	1461		
1977 080A	SIRIO	10294	ITALY	25 AUG	1436.3	1.5	35810	35769		
1977 080B		10295	US	25 AUG	115.5	27.1	2084	874		

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1977 LAUNCHES (CONT.)										
1977 082A	MOLNIYA 1-38	10315	USSR	30 AUG	717.3	64.0	38725	1604		
1977 082E		10359	USSR	30 AUG	729.5	64.3	39314	1616		
1977 084A	VOYAGER 1	10321	US	5 SEP	ELEMENTS NOT AVAILABLE					
1977 084B		10322	US	5 SEP	HELIOCENTRIC ORBIT					
1977 084C		10323	US	5 SEP	HELIOCENTRIC ORBIT					
1977 087A	COSMOS 951	10352	USSR	13 SEP	104.8	83.0	1012	959		
1977 087B		10355	USSR	13 SEP	104.7	83.0	1007	954		
1977 088A	COSMOS 952	10353	USSR	16 SEP	104.1	64.9	984	918		
1977 091A	COSMOS 955	10362	USSR	20 SEP	96.5	81.2	594	587		
1977 091B		10363	USSR	20 SEP	96.5	81.2	628	552		
1977 092A	EKRAN	10365	USSR	20 SEP	1448.4	2.3	38150	33905		
1977 092G		11571	USSR	20 SEP	1421.8	5.2	35545	35468		
1977 093A	PROGNOZ 6	10370	USSR	22 SEP	ELEMENTS NOT AVAILABLE					
1977 102A	ISEE 1	10422	US	22 OCT	3440.4	31.5	132148	6078	2215.790, 2265.140	4*
1977 102B	ISEE 2	10423	ESA	22 OCT	3440.4	31.5	132147	6080	2260.790	4*
1977 102D		10425	US	22 OCT	CURRENT ELEMENTS NOT MAINTAINED					
1977 105A	MOLNIYA 3-8	10455	USSR	28 OCT	717.9	64.1	39298	1060		
1977 105E		10465	USSR	28 OCT	731.6	64.1	39837	1195		
1977 106A	TRANSAT	10457	US	28 OCT	106.9	89.8	1101	1060		
1977 106B		10452	US	28 OCT	106.9	89.8	1102	1061		
1977 106C		12358	US	28 OCT	106.9	89.5	1100	1068		
1977 107A	COSMOS 962	10459	USSR	28 OCT	104.8	83.0	1004	963		
1977 107B		10461	USSR	28 OCT	104.6	83.0	1004	951		
1977 108A	METEOSAT 1	10489	ESA	23 NOV	1436.0	3.9	35841	35726		
1977 108B		10490	US	23 NOV	116.0	28.3	2514	491		
1977 108C		10950	US	23 NOV	230.3	27.1	15411	210		
1977 109A	COSMOS 963	10491	USSR	24 NOV	109.2	82.9	1204	1176		
1977 109B		10492	USSR	24 NOV	109.1	82.9	1200	1170		
1977 112A		10502	US	8 DEC	ELEMENTS NOT AVAILABLE					
1977 112B		10504	US	8 DEC	ELEMENTS NOT AVAILABLE					
1977 112C		10523	US	8 DEC	ELEMENTS NOT AVAILABLE					
1977 112D		10529	US	8 DEC	ELEMENTS NOT AVAILABLE					
1977 112E		10544	US	8 DEC	ELEMENTS NOT AVAILABLE					
1977 112F		10594	US	8 DEC	ELEMENTS NOT AVAILABLE					
1977 112G		10595	US	8 DEC	ELEMENTS NOT AVAILABLE					
1977 112H		12859	US	8 DEC	ELEMENTS NOT AVAILABLE					
1977 114A		10508	US	11 DEC	CURRENT ELEMENTS NOT MAINTAINED					
1977 114B		10509	US	11 DEC	CURRENT ELEMENTS NOT MAINTAINED					
1977 116A	COSMOS 967	10512	USSR	13 DEC	104.7	65.8	992	970		
1977 116B		10513	USSR	13 DEC	104.5	65.8	990	954		
1977 116C		10513	USSR	13 DEC	104.7	65.8	989	968		
1977 116D		10526	USSR	13 DEC	104.9	65.8	1017	960		
1977 117A	METEOR 2-3	10514	USSR	14 DEC	102.3	81.2	881	849		
1977 117B		10515	USSR	14 DEC	102.3	81.2	902	834		
1977 117C		14950	USSR	14 DEC	102.3	81.2	902	834		
1977 118A	SAKURA	10516	JAPAN	15 DEC	1435.9	2.3	35791	35777		
1977 118B		10517	US	15 DEC	110.3	28.7	1995	485		
1977 118C		10519	US	15 DEC	110.4	29.1	1947	544		
1977 119A	COSMOS 968	10520	USSR	16 DEC	100.6	74.0	798	771		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1977 LAUNCHES (CONT.)										
1977 119B		10521	USSR	16 DEC	100.4	74.0	790	763		
1977 119C		10524	USSR	16 DEC	100.6	74.0	803	774		
1977 119D		10525	USSR	16 DEC	100.7	74.0	806	776		
1977 121A	COSMOS 970	10531	USSR	21 DEC	105.6	65.9	1128	917		
1977 121B - 121BL			USSR	21 DEC	SEE NOTE	26*				26*
1977 122A	COSMOS 971	10536	USSR	23 DEC	104.9	82.9	1005	972		
1977 122B		10537	USSR	23 DEC	104.7	82.9	997	967		
1977 123A	COSMOS 972	10539	USSR	27 DEC	103.8	75.8	1162	710		
1977 123B		10541	USSR	27 DEC	103.7	75.8	1158	711		
1978 LAUNCHES										
6	ICE	11004	US	12 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1978 002A	INTELSAT 4A F-3	10557	ITSO	7 JAN	1436.1	0.0	35789	35784		
1978 002B		10722	US	17 JAN	650.6	21.0	36386	601		
1978 004A	COSMOS 975	10561	USSR	10 JAN	96.6	81.2	602	591		
1978 004B		10582	USSR	10 JAN	96.8	81.2	644	564		
1978 005A	COSMOS 976	10581	USSR	10 JAN	115.1	74.0	1462	1452		
1978 005B	COSMOS 977	10584	USSR	10 JAN	114.4	74.0	1462	1397		
1978 005C	COSMOS 978	10585	USSR	10 JAN	114.7	74.0	1462	1416		
1978 005D	COSMOS 979	10586	USSR	10 JAN	114.9	74.0	1462	1434		
1978 005E	COSMOS 980	10587	USSR	10 JAN	115.3	74.0	1473	1461		
1978 005F	COSMOS 981	10588	USSR	10 JAN	115.5	74.0	1493	1462		
1978 005G	COSMOS 982	10589	USSR	10 JAN	115.7	74.0	1514	1461		
1978 005H	COSMOS 983	10590	USSR	10 JAN	116.0	74.0	1535	1462		
1978 005J		10591	USSR	10 JAN	117.7	74.0	1692	1460		
1978 007A	COSMOS 985	10599	USSR	17 JAN	104.6	82.9	1016	937		
1978 007B		10600	USSR	17 JAN	104.5	82.9	1009	935		
1978 009A	MOLNIYA 3-9	10605	USSR	24 JAN	717.8	64.8	38256	2099		
1978 009B		10802	USSR	24 JAN	732.6	65.0	38859	2222		
1978 012A	IUE	10637	US	26 JAN	1435.7	29.3	44361	27197	136.860,2249.800	4*
1978 012C		10723	US	26 JAN	698.3	29.2	38996	393		
1978 014A	KYOKKO	10664	JAPAN	4 FEB	134.1	65.4	3953	648		
1978 014C		12329	JAPAN	4 FEB	134.0	65.3	3943	648		
1978 014D		12330	JAPAN	4 FEB	134.2	65.4	3964	644		
1978 014E		12331	JAPAN	4 FEB	133.2	64.8	3895	630		
1978 014F		12406	JAPAN	4 FEB	133.7	65.9	3924	641		
1978 016A	FLTSATCOM 1	10669	US	9 FEB	1436.1	3.3	35798	35772		
1978 016C		12908	US	9 FEB	277.9	26.4	15248	208		
1978 016D		13998	US	9 FEB	244.7	26.4	12850	314		
1978 018A	UME 2	10674	JAPAN	16 FEB	107.2	69.4	1216	974		
1978 018B		10675	JAPAN	16 FEB	107.1	69.4	1214	974		
1978 018C		13132	JAPAN	16 FEB	107.9	69.2	1286	973		
1978 019A	COSMOS 990	10676	USSR	17 FEB	100.6	74.0	798	771		
1978 019B		10677	USSR	17 FEB	100.4	74.0	793	762		
1978 019C		14803	USSR	17 FEB	100.2	74.0	775	761		
1978 019D		13500	USSR	17 FEB	100.7	74.1	803	779		
1978 020A		10684	US	22 FEB	718.0	63.2	20338	20025		
1978 020B		10801	US	22 FEB	268.5	63.6	14347	472		
1978 021A		10688	US	25 FEB	CURRENT ELEMENTS NOT MAINTAINED					

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1978 LAUNCHES (CONT.)										
1978 021B		10689	US	25 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1978 022A	COSMOS 991	10692	USSR	28 FEB	104.7	83.0	1004	952		
1978 022B		10693	USSR	28 FEB	104.6	83.0	992	958		
1978 024A	MOLNIYA 1-39	10696	USSR	2 MAR	717.9	64.7	38587	1771		
1978 024D		10803	USSR	2 MAR	729.5	64.9	38887	2043		
1978 026A	LANDSAT 3	10702	US	5 MAR	103.1	99.0	918	896		
1978 026B	AMSAT-OSCAR-8	10703	US	5 MAR	103.0	98.8	907	898		
1978 026C - 026GQ			US	5 MAR	SEE NOTE	27*				27*
1978 028A	COSMOS 994	10731	USSR	15 MAR	104.9	82.9	1005	973		
1978 028B		10732	USSR	15 MAR	104.8	82.9	994	971		
1978 029B		10734	US	15 MAR	ELEMENTS NOT AVAILABLE					
1978 031A	COSMOS 996	10744	USSR	23 MAR	104.6	82.9	1004	951		
1978 031B		10745	USSR	23 MAR	104.5	82.9	992	952		
1978 034A	COSMOS 1000	10776	USSR	31 MAR	104.7	82.9	1007	957		
1978 034B		10777	USSR	31 MAR	104.6	82.9	994	958		
1978 035A	INTELSAT 4A F-5	10778	ITSO	31 MAR	1436.1	0.0	35792	35782		
1978 035B		10779	US	31 MAR	648.6	21.1	36325	557		
1978 038A		10787	US	7 APR	CURRENT ELEMENTS NOT MAINTAINED					
1978 038B		10788	US	7 APR	CURRENT ELEMENTS NOT MAINTAINED					
1978 039A	YURI	10792	JAPAN	7 APR	1434.1	4.5	37866	33627		
1978 039B		10793	US	7 APR	111.2	28.2	1992	573		
1978 039C		10794	US	7 APR	233.0	27.0	15580	223		
1978 042A		10820	US	1 MAY	101.0	98.6	814	800		
1978 042B		10853	US	1 MAY	99.7	98.5	748	738		
1978 042C		10854	US	1 MAY	99.7	98.5	751	742		
1978 042D		10913	US	1 MAY	95.0	98.6	522	518		
1978 042E		10914	US	1 MAY	98.2	98.6	678	670		
1978 044A	OTS-2	10855	ESA	11 MAY	1436.1	1.2	35796	35779		
1978 044B		10856	US	11 MAY	139.9	28.0	3527	1571		
1978 044C		10857	US	11 MAY	CURRENT ELEMENTS NOT MAINTAINED					
1978 045A	COSMOS 1005	10860	USSR	12 MAY	96.5	81.2	600	579		
1978 045B		10861	USSR	12 MAY	96.9	81.2	645	573		
1978 047A		10893	US	13 MAY	718.0	64.4	20457	19906		
1978 047B		10894	US	13 MAY	287.0	63.7	15566	503		
1978 051A	PIONEER VENUS ORBITER	10911	US	20 MAY	ELEMENTS NOT AVAILABLE					
1978 051B		10912	US	20 MAY	HELIOCENTRIC ORBIT					
1978 053A	COSMOS 1011	10917	USSR	23 MAY	104.7	82.9	1010	953		
1978 053B		10918	USSR	23 MAY	104.6	82.9	1000	953		
1978 055A	MOLNIYA 1-40	10925	USSR	2 JUN	717.5	63.9	39108	1234		
1978 055E		10949	USSR	2 JUN	732.5	64.0	39628	1447		
1978 056A	COSMOS 1013	10930	USSR	7 JUN	116.3	74.0	1552	1476		
1978 056B	COSMOS 1014	10931	USSR	7 JUN	116.1	74.0	1529	1477		
1978 056C	COSMOS 1015	10932	USSR	7 JUN	115.8	74.0	1514	1471		
1978 056D	COSMOS 1016	10933	USSR	7 JUN	115.6	74.0	1497	1468		
1978 056E	COSMOS 1017	10934	USSR	7 JUN	115.4	74.0	1491	1455		
1978 056F	COSMOS 1018	10935	USSR	7 JUN	115.2	74.0	1486	1440		
1978 056G	COSMOS 1019	10936	USSR	7 JUN	115.0	74.0	1486	1422		
1978 056H	COSMOS 1020	10937	USSR	7 JUN	114.8	74.0	1482	1406		
1978 056J		10938	USSR	7 JUN	117.9	74.0	1690	1478		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1978 LAUNCHES (CONT.)										
1978 058A		10941	US	10 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1978 058B		10942	US	10 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1978 062A	GOES 3	10953	US	16 JUN	1437.8	1.8	35860	35784	135.560,136.380, 137.190	4*
1978 062B		10954	US	16 JUN	107.8	28.4	1694	557		
1978 063A	COSMOS 1023	10961	USSR	21 JUN	100.5	74.1	793	773		
1978 063B		10962	USSR	21 JUN	100.4	74.1	790	760		
1978 063C		14304	USSR	21 JUN	99.8	74.0	760	735		
1978 063D		13497	USSR	21 JUN	100.9	74.1	817	787		
1978 064A	SEASAT 1	10967	US	27 JUN	100.4	108.0	779	776		
1978 064B		14244	US	27 JUN	98.2	108.0	685	662		
1978 066A	COSMOS 1024	10970	USSR	28 JUN	718.0	67.0	36710	3655		
1978 066D		10998	USSR	28 JUN	720.2	67.1	36905	3566		
1978 067A	COSMOS 1025	10973	USSR	28 JUN	97.0	82.5	629	601		
1978 067B		10974	USSR	28 JUN	97.4	82.5	649	622		
1978 068A	COMSTAR 3	10975	US	29 JUN	1436.2	0.1	35792	35784		
1978 068B		10976	US	29 JUN	649.3	21.9	36277	643		
1978 071A	ESA GEOS 2	10981	ESA	14 JUL	1449.0	4.2	36063	36018		
1978 071C		10983	US	14 JUL	516.4	25.9	29626	258		
1978 072A	MOLNIYA 1-41	10984	USSR	14 JUL	717.7	64.8	38417	1933		
1978 072D		11073	USSR	14 JUL	732.7	65.0	38947	2138		
1978 073A	RADUGA 4	10987	USSR	18 JUL	1436.9	4.5	35856	35749		
1978 073D		11074	USSR	18 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1978 073E		11941	USSR	18 JUL	1476.0	4.9	36620	36505		
1978 074A	COSMOS 1027	10991	USSR	27 JUL	104.7	82.9	997	959		
1978 074B		10992	USSR	27 JUL	104.6	82.9	986	962		
1978 075A		10993	US	5 AUG	ELEMENTS NOT AVAILABLE					
1978 075B		10994	US	5 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1978 078C		11003	US	8 AUG	HELIOCENTRIC ORBIT				2270.390	
1978 079C		11006	US	12 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1978 079D		13413	US	12 AUG	ELEMENTS NOT AVAILABLE					
1978 080A	MOLNIYA 1-42	11007	USSR	22 AUG	717.6	64.2	39354	992		
1978 080D		11075	USSR	22 AUG	731.7	64.4	40040	996		
1978 083A	COSMOS 1030	11015	USSR	6 SEP	717.7	65.3	36868	3484		
1978 083D		11076	USSR	6 SEP	723.2	65.3	37077	3543		
1978 083E		12907	USSR	6 SEP	711.4	64.0	36813	3227		
1978 083F		12919	USSR	6 SEP	719.9	64.4	37018	3440		
1978 083G		13959	USSR	6 SEP	721.7	63.7	37601	2948		
1978 084A	VENERA 11	11020	USSR	9 SEP	HELIOCENTRIC ORBIT					
1978 086A	VENERA 12	11025	USSR	14 SEP	HELIOCENTRIC ORBIT					
1978 087A	JIKI'KEN	11027	JAPAN	16 SEP	424.8	31.3	24419	259		
1978 087B		11028	JAPAN	16 SEP	421.8	31.4	24244	258		
1978 091A	COSMOS 1034	11042	USSR	4 OCT	114.9	74.0	1480	1419		
1978 091B	COSMOS 1035	11044	USSR	4 OCT	114.7	74.0	1478	1400		
1978 091C	COSMOS 1036	11045	USSR	4 OCT	115.1	74.0	1479	1439		
1978 091D	COSMOS 1037	11046	USSR	4 OCT	115.3	74.0	1480	1459		
1978 091E	COSMOS 1038	11047	USSR	4 OCT	115.5	74.0	1485	1475		
1978 091F	COSMOS 1039	11048	USSR	4 OCT	116.3	74.0	1550	1476		
1978 091G	COSMOS 1040	11049	USSR	4 OCT	116.0	74.0	1526	1477		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1978 LAUNCHES (CONT.)										
1978 091H	COSMOS 1041	11050	USSR	4 OCT	115.8	74.0	1507	1475		
1978 091J		11051	USSR	4 OCT	118.0	74.0	1697	1480		
1978 093A		11054	US	7 OCT	718.0	64.0	20264	20099		
1978 093B		11078	US	7 OCT	254.4	63.2	13534	311		
1978 094A	COSMOS 1043	11055	USSR	10 OCT	96.3	81.2	584	574		
1978 094B		11056	USSR	10 OCT	96.4	81.2	628	544		
1978 095A	MOLNIYA 3-10	11057	USSR	13 OCT	717.7	63.9	38829	1520		
1978 095E		11079	USSR	13 OCT	734.2	64.0	39508	1654		
1978 096A	TIROS-N	11060	US	13 OCT	101.8	99.1	853	835		
1978 096B		11061	US	13 OCT	101.2	99.0	815	811		
1978 096C		11062	US	13 OCT	101.1	99.0	815	809		
1978 098A	NIMBUS 7	11080	US	24 OCT	104.1	99.3	957	943	2273.500, 2211.000	4*
1978 098B	CAMEO	11081	US	24 OCT	104.0	99.3	971	926		
1978 100A	COSMOS 1045	11084	USSR	26 OCT	120.3	82.5	1703	1682		
1978 100B	RADIO 1	11085	USSR	26 OCT	120.3	82.5	1705	1682		
1978 100C	RADIO 2	11086	USSR	26 OCT	120.3	82.6	1703	1684		
1978 100D		11087	USSR	26 OCT	120.2	82.5	1700	1682		
1978 100E		11177	USSR	26 OCT	114.8	74.0	1470	1420		
1978 105A	COSMOS 1048	11111	USSR	16 NOV	100.7	74.0	804	776		
1978 105B		11112	USSR	16 NOV	100.6	74.0	808	764		
1978 105C		11113	USSR	16 NOV	100.6	74.0	797	778		
1978 105D		11114	USSR	16 NOV	100.5	74.0	789	771		
1978 106A	NATO III-C	11115	NATO	19 NOV	1436.2	0.6	35790	35785		
1978 109A	COSMOS 1051	11128	USSR	5 DEC	114.6	74.0	1484	1392		
1978 109B	COSMOS 1052	11129	USSR	5 DEC	114.8	74.0	1485	1409		
1978 109C	COSMOS 1053	11130	USSR	5 DEC	115.0	74.0	1485	1428		
1978 109D	COSMOS 1054	11131	USSR	5 DEC	115.2	74.0	1487	1445		
1978 109E	COSMOS 1055	11132	USSR	5 DEC	115.5	74.0	1489	1463		
1978 109F	COSMOS 1056	11133	USSR	5 DEC	115.7	74.0	1502	1470		
1978 109G	COSMOS 1057	11134	USSR	5 DEC	115.9	74.0	1514	1478		
1978 109H	COSMOS 1058	11135	USSR	5 DEC	116.1	74.0	1536	1478		
1978 109J		11136	USSR	5 DEC	118.1	74.0	1706	1483		
1978 112A		11141	US	11 DEC	717.9	63.2	20284	20078		
1978 112B		11142	US	11 DEC	270.7	63.4	14584	384		
1978 113A		11144	US	14 DEC	1436.0	2.8	35788	35779		
1978 113B		11145	US	14 DEC	1436.2	3.0	35793	35782		
1978 113D		11147	US	14 DEC	1339.1	1.7	35388	32345		
1978 116A	ANIK B1	11153	CANADA	16 DEC	1436.1	0.0	35795	35779		
1978 117A	COSMOS 1063	11155	USSR	19 DEC	96.5	81.2	593	592		
1978 117B		11156	USSR	19 DEC	96.5	81.2	636	550		
1978 118A	HORIZONT 1	11158	USSR	19 DEC	1436.2	11.9	50912	20665		
1978 118C		11926	USSR	19 DEC	1417.4	11.8	50213	20627		
1978 119A	COSMOS 1064	11161	USSR	20 DEC	95.2	82.9	671	384		
1978 119B		11162	USSR	20 DEC	94.1	82.9	582	363		
1978 121A	COSMOS 1066	11165	USSR	23 DEC	102.1	81.2	897	820		
1978 121B		11166	USSR	23 DEC	102.0	81.2	902	802		
1978 122A	COSMOS 1067	11168	USSR	26 DEC	109.1	83.0	1210	1155		
1978 122B		11170	USSR	26 DEC	108.9	83.0	1196	1156		
1979 LAUNCHES										

OBJECTS IN ORBIT

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1979 003A	COSMOS 1072	11238	USSR	16 JAN	104.8	82.9	1014	958		
1979 003B		11239	USSR	16 JAN	104.7	82.9	1012	950		
1979 004A	MOLNIYA 3-11	11240	USSR	18 JAN	717.8	64.1	39382	972		
1979 004D		11553	USSR	18 JAN	733.0	64.2	40048	1053		
1979 005A	METEOR 1-29	11251	USSR	25 JAN	97.0	97.7	646	581		
1979 005B		11252	USSR	25 JAN	96.4	97.7	594	573		
1979 007A	SCATHA	11256	US	30 JAN	1415.0	4.3	42894	27852		
1979 009A	AYAME 1	11261	JAPAN	6 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1979 011A	COSMOS 1076	11266	USSR	12 FEB	96.9	82.5	622	594		
1979 011B		11267	USSR	12 FEB	97.4	82.5	648	618		
1979 012A	COSMOS 1077	11268	USSR	13 FEB	96.4	81.2	589	583		
1979 012B		11269	USSR	13 FEB	96.4	81.2	631	545		
1979 013A	SAGE	11270	US	18 FEB	94.6	54.9	532	470		
1979 014A	CORSA B	11272	JAPAN	21 FEB	90.9	29.9	323	313		
1979 015A	EKRAN 3	11273	USSR	21 FEB	1435.6	4.1	36402	35152		
1979 015D		13900	USSR	21 FEB	1421.0	4.2	35545	35436		
1979 017A	SOLWIND	11278	US	24 FEB	95.2	97.6	541	515		
1979 020A	INTERCOSMOS 19	11285	USSR	27 FEB	98.4	74.0	879	483		
1979 020B		11286	USSR	27 FEB	98.5	74.0	895	478		
1979 021A	METEOR 2-4	11288	USSR	1 MAR	102.1	81.2	885	832		
1979 021B		11289	USSR	1 MAR	102.1	81.3	915	802		
1979 021C		11290	USSR	1 MAR	102.2	81.2	888	832		
1979 021D		14632	USSR	1 MAR	102.9	81.3	934	854		
1979 024A	COSMOS 1081	11296	USSR	15 MAR	114.5	74.0	1463	1402		
1979 024B	COSMOS 1082	11297	USSR	15 MAR	114.7	74.0	1464	1421		
1979 024C	COSMOS 1083	11298	USSR	15 MAR	114.9	74.0	1464	1440		
1979 024D	COSMOS 1084	11299	USSR	15 MAR	115.2	74.0	1464	1460		
1979 024E	COSMOS 1085	11300	USSR	15 MAR	115.6	74.0	1502	1464		
1979 024F	COSMOS 1086	11301	USSR	15 MAR	115.4	74.0	1480	1464		
1979 024G	COSMOS 1087	11302	USSR	15 MAR	115.8	74.0	1521	1464		
1979 024H	COSMOS 1088	11303	USSR	15 MAR	116.1	74.0	1545	1464		
1979 024J		11304	USSR	15 MAR	117.6	74.0	1688	1458		
1979 025B		11306	US	16 MAR	ELEMENTS NOT AVAILABLE					
1979 026A	COSMOS 1089	11305	USSR	21 MAR	104.7	83.0	998	966		
1979 026B		11309	USSR	21 MAR	104.6	83.0	992	962		
1979 028A	COSMOS 1091	11320	USSR	7 APR	104.8	82.9	1006	962		
1979 028B		11321	USSR	7 APR	104.7	82.9	991	966		
1979 030A	COSMOS 1092	11326	USSR	11 APR	104.7	82.9	1002	961		
1979 030B		11327	USSR	11 APR	104.7	83.0	998	957		
1979 031A	MOLNIYA 1-43	11328	USSR	12 APR	717.8	64.9	38543	1810		
1979 031D		11551	USSR	12 APR	732.2	65.1	39202	1860		
1979 032A	COSMOS 1093	11331	USSR	14 APR	96.3	81.2	587	575		
1979 032B		11332	USSR	14 APR	96.7	81.3	648	556		
1979 035A	RADUGA 5	11343	USSR	25 APR	1445.5	4.0	36762	35176		
1979 038A	FLTSATCOM 2	11353	US	4 MAY	1436.2	2.3	36320	35255		
1979 046A	COSMOS 1104	11378	USSR	31 MAY	104.7	82.9	1006	954		
1979 046B		11379	USSR	31 MAY	104.6	82.9	990	960		
1979 047A	UK 6	11382	UK	2 JUN	95.7	55.0	567	535		
1979 047B		11383	US	2 JUN	93.7	55.0	469	443		
1979 048A	MOLNIYA 3-12	11384	USSR	5 JUN	717.6	64.1	39058	1288		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1979 LAUNCHES (CONT.)										
1979 048D		11554	USSR	5 JUN	712.5	64.4	38977	1115		
1979 050A		11339	US	6 JUN	ELEMENTS NOT AVAILABLE					
1979 050B		11403	US	6 JUN	ELEMENTS NOT AVAILABLE					
1979 050C		11408	US	6 JUN	ELEMENTS NOT AVAILABLE					
1979 050D		11410	US	6 JUN	ELEMENTS NOT AVAILABLE					
1979 050G		11534	US	6 JUN	ELEMENTS NOT AVAILABLE					
1979 051A	BHASKARA	11392	INDIA	7 JUN	93.1	50.7	428	420		
1979 053A		11397	US	10 JUN	ELEMENTS NOT AVAILABLE					
1979 053C		11436	US	10 JUN	ELEMENTS NOT AVAILABLE					
1979 057A	NOAA 6	11416	US	27 JUN	101.0	98.5	814	798	136.770, 1698.000, 1702.500	4*
1979 057B		11419	US	27 JUN	100.5	98.5	787	781		
1979 057C		11634	US	27 JUN	100.4	98.5	781	776		
1979 058A	COSMOS 1109	11417	USSR	27 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1979 058D		11555	USSR	27 JUN	721.6	67.4	37649	2891		
1979 058E		12833	USSR	27 JUN	715.2	67.2	37352	2873		
1979 058F		12834	USSR	27 JUN	718.9	65.1	37405	3004		
1979 058G		12909	USSR	27 JUN	719.6	68.2	39114	1329		
1979 058H		12995	USSR	27 JUN	698.9	66.3	38251	1169		
1979 058J		13960	USSR	27 JUN	720.5	67.2	37950	2536		
1979 060A	COSMOS 1110	11425	USSR	28 JUN	100.7	74.0	804	782		
1979 060B		11427	USSR	28 JUN	100.6	74.0	802	769		
1979 060C		14866	USSR	28 JUN	100.3	74.1	778	771		
1979 062A	HORIZONT 2	11440	USSR	5 JUL	1436.7	3.2	35828	35766		
1979 062D		14005	USSR	5 JUL	1474.4	3.8	36554	36512		
1979 067A	COSMOS 1116	11457	USSR	20 JUL	95.9	81.2	583	544		
1979 067B		11458	USSR	20 JUL	96.3	81.2	620	543		
1979 070A	MOLNIYA 1-44	11474	USSR	31 JUL	717.6	63.8	39202	1144		
1979 070D		11556	USSR	31 JUL	733.1	63.8	39810	1296		
1979 072A	WESTAR 3	11434	US	10 AUG	1436.1	0.0	35789	35784		
1979 077A	COSMOS 1124	11509	USSR	28 AUG	717.0	65.5	37130	3186		
1979 077D		11550	USSR	28 AUG	723.8	65.5	37409	3240		
1979 077E		12814	USSR	28 AUG	681.9	64.2	36025	2543		
1979 077F		12815	USSR	28 AUG	708.7	64.3	36960	2947		
1979 077G		12816	USSR	28 AUG	686.5	63.6	36895	1904		
1979 077H		12817	USSR	28 AUG	720.6	63.3	37929	2564		
1979 078A	COSMOS 1125	11510	USSR	28 AUG	100.7	74.0	802	785		
1979 078B		11511	USSR	28 AUG	100.6	74.0	799	776		
1979 078C		14805	USSR	28 AUG	100.3	74.1	779	770		
1979 078D		14806	USSR	28 AUG	101.1	74.0	812	804		
1979 084A	COSMOS 1130	11538	USSR	25 SEP	114.6	74.0	1477	1396		
1979 084B	COSMOS 1131	11539	USSR	25 SEP	114.8	74.0	1480	1409		
1979 084C	COSMOS 1132	11540	USSR	25 SEP	114.9	74.0	1480	1424		
1979 084D	COSMOS 1133	11541	USSR	25 SEP	115.1	74.0	1481	1437		
1979 084E	COSMOS 1134	11542	USSR	25 SEP	115.3	74.0	1482	1452		
1979 084F	COSMOS 1135	11543	USSR	25 SEP	115.4	74.0	1491	1459		
1979 084G	COSMOS 1136	11544	USSR	25 SEP	115.6	74.0	1495	1470		
1979 084H	COSMOS 1137	11545	USSR	25 SEP	115.8	74.0	1513	1470		
1979 084J		11546	USSR	25 SEP	117.8	74.0	1682	1480		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1979 LAUNCHES (CONT.)										
1979 086A		11558	US	1 OCT	ELEMENTS NOT AVAILABLE					
1979 086C		11560	US	1 OCT	ELEMENTS NOT AVAILABLE					
1979 087A	EKRAN 4	11561	USSR	3 OCT	1436.5	1.0	36810	34778		
1979 089A	COSMOS 1140	11573	USSR	11 OCT	100.5	74.1	794	772		
1979 089B		11574	USSR	11 OCT	100.4	74.1	788	765		
1979 089C		14807	USSR	11 OCT	100.3	74.1	781	766		
1979 089D		14345	USSR	11 OCT	100.7	74.0	804	776		
1979 090A	COSMOS 1141	11585	USSR	16 OCT	104.6	82.9	1000	952		
1979 090B		11586	USSR	16 OCT	104.5	82.9	991	948		
1979 090C		11587	USSR	16 OCT	103.6	82.9	948	908		
1979 091A	MOLNIYA 1-45	11589	USSR	20 OCT	717.7	64.7	38032	2320		
1979 091D		11602	USSR	20 OCT	732.4	64.9	38646	2425		
1979 093A	COSMOS 1143	11600	USSR	26 OCT	96.8	81.2	614	592		
1979 093B		11601	USSR	26 OCT	96.8	81.2	641	569		
1979 095A	METEOR 2-5	11605	USSR	31 OCT	102.4	81.2	882	864		
1979 095B		11608	USSR	31 OCT	102.5	81.2	917	836		
1979 098A		11621	US	21 NOV	1436.1	2.0	35792	35780		
1979 098B		11622	US	21 NOV	1436.2	2.0	35793	35782		
1979 098C		11623	US	21 NOV	1510.8	2.3	38655	35817		
1979 099A	COSMOS 1145	11629	USSR	27 NOV	96.5	81.2	597	586		
1979 099B		11630	USSR	27 NOV	96.7	81.2	643	555		
1979 101A	RCA SATCOM III	11635	US	7 DEC	CURRENT ELEMENTS NOT MAINTAINED					
1979 104A	ARIANE V1	11645	ESA	24 DEC	424.9	17.8	24527	157		
1979 105A	HORIZONT 3	11648	USSR	28 DEC	1436.1	3.4	35792	35781		
1979 105E		11684	USSR	28 DEC	1459.3	3.5	36337	36140		
1980 LAUNCHES										
1980 002A	MOLNIYA 1-46	11662	USSR	11 JAN	717.5	64.1	39785	556		
1980 002F		11670	USSR	11 JAN	732.7	64.4	40521	564		
1980 003A	COSMOS 1150	11667	USSR	14 JAN	104.9	82.9	1012	964		
1980 003B		11668	USSR	14 JAN	104.7	83.0	997	965		
1980 004A	FLTSATCOM 3	11669	US	18 JAN	1436.1	2.0	35791	35781		
1980 004B		11719	US	18 JAN	293.3	26.0	16283	206		
1980 005A	COSMOS 1151	11671	USSR	23 JAN	97.3	82.5	641	613		
1980 005B		11672	USSR	23 JAN	97.4	82.5	650	622		
1980 007A	COSMOS 1153	11680	USSR	25 JAN	104.9	82.9	1015	959		
1980 007B		11681	USSR	25 JAN	104.8	82.9	1010	954		
1980 008A	COSMOS 1154	11682	USSR	30 JAN	96.9	81.2	613	603		
1980 008B		11683	USSR	30 JAN	96.9	81.2	654	567		
1980 011A		11690	US	9 FEB	ELEMENTS NOT AVAILABLE					
1980 011B		11705	US	9 FEB	290.6	63.4	15892	416		
1980 012A	COSMOS 1156	11691	USSR	11 FEB	114.5	74.0	1473	1396		
1980 012B	COSMOS 1157	11692	USSR	11 FEB	114.8	74.0	1475	1413		
1980 012C	COSMOS 1158	11693	USSR	11 FEB	115.0	74.0	1475	1431		
1980 012D	COSMOS 1159	11694	USSR	11 FEB	115.2	74.0	1476	1449		
1980 012E	COSMOS 1160	11695	USSR	11 FEB	115.4	74.0	1480	1464		
1980 012F	COSMOS 1161	11696	USSR	11 FEB	115.6	74.0	1500	1466		
1980 012G	COSMOS 1162	11697	USSR	11 FEB	115.8	74.0	1517	1470		
1980 012H	COSMOS 1163	11698	USSR	11 FEB	116.1	74.0	1541	1469		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1980 LAUNCHES (CONT.)										
1980 012J		11699	USSR	11 FEB	117.8	74.0	1693	1467		
1980 014A	SMM	11703	US	14 FEB	94.5	28.5	497	496	2287.500	4*
1980 014B		11704	US	14 FEB	94.1	28.5	477	473		
1980 015B		11707	JAPAN	17 FEB	90.1	38.7	288	271		
1980 016A	RADUGA 6	11708	USSR	20 FEB	1435.3	3.6	35792	35748		
1980 016D		11728	USSR	20 FEB	1475.1	3.7	36611	36480		
1980 018A	AYAME 2	11715	JAPAN	22 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1980 019A		11720	US	3 MAR	ELEMENTS NOT AVAILABLE					
1980 019B		11721	US	3 MAR	ELEMENTS NOT AVAILABLE					
1980 019C		11731	US	3 MAR	ELEMENTS NOT AVAILABLE					
1980 019D		11732	US	3 MAR	ELEMENTS NOT AVAILABLE					
1980 019E		11733	US	3 MAR	ELEMENTS NOT AVAILABLE					
1980 019F		11734	US	3 MAR	ELEMENTS NOT AVAILABLE					
1980 019G		11745	US	3 MAR	ELEMENTS NOT AVAILABLE					
1980 019H		11746	US	3 MAR	ELEMENTS NOT AVAILABLE					
1980 022A	COSMOS 1166	11735	USSR	17 MAR	104.8	82.9	1011	956		
1980 022B		11736	USSR	17 MAR	104.7	82.9	1006	950		
1980 022C		12404	USSR	17 MAR	104.1	82.9	975	929		
1980 026A	COSMOS 1171	11750	USSR	3 APR	104.8	65.8	1006	965		
1980 026B		11751	USSR	3 APR	104.7	65.8	992	967		
1980 026C		11752	USSR	3 APR	104.8	65.8	1004	965		
1980 028A	COSMOS 1172	11753	USSR	12 APR	718.6	66.0	37986	2409		
1980 028E		11762	USSR	12 APR	722.2	66.6	38061	2509		
1980 030A	COSMOS 1174	11765	USSR	18 APR	104.5	66.1	1560	384		
1980 030B - 030AV			USSR	18 APR	SEE NOTE 28*					28*
1980 032A		11783	US	26 APR	718.0	63.8	20451	19912		
1980 032B		11791	US	26 APR	256.9	63.3	13729	285		
1980 034A	COSMOS 1176	11788	USSR	29 APR	103.4	64.8	949	889		
1980 034D		11971	USSR	29 APR	103.1	64.8	919	889		
1980 037A	COSMOS 1179	11796	USSR	14 MAY	97.6	82.9	1003	281		
1980 039A	COSMOS 1181	11803	USSR	20 MAY	104.8	82.9	1002	970		
1980 039B		11804	USSR	20 MAY	104.7	82.9	995	965		
1980 044A	COSMOS 1184	11821	USSR	4 JUN	96.8	81.2	616	592		
1980 044B		11822	USSR	4 JUN	97.1	81.3	655	581		
1980 049A	HORIZONT 4	11841	USSR	14 JUN	1436.2	3.0	35810	35765		
1980 049F		11852	USSR	14 JUN	1470.4	3.1	36581	36327		
1980 050A	COSMOS 1188	11844	USSR	14 JUN	717.2	67.3	37972	2353		
1980 050B		11847	USSR	14 JUN	722.9	67.3	38267	2337		
1980 051A	METEOR 1-30	11849	USSR	18 JUN	96.1	97.8	602	544		
1980 051B		11849	USSR	18 JUN	97.0	97.8	638	587		
1980 052C		11852	US	18 JUN	ELEMENTS NOT AVAILABLE					
1980 053A	MOLNIYA 1-47	11856	USSR	21 JUN	717.8	64.8	38916	1439		
1980 053D		11861	USSR	21 JUN	733.1	65.0	39683	1422		
1980 055A	COSMOS 1190	11869	USSR	1 JUL	100.7	74.0	799	783		
1980 055B		11870	USSR	1 JUL	100.6	74.1	798	775		
1980 056C		14808	USSR	1 JUL	101.3	74.0	834	804		
1980 056D		14809	USSR	1 JUL	101.1	74.0	822	801		
1980 057A	COSMOS 1191	11871	USSR	2 JUL	716.9	65.3	37358	2953		
1980 057D		11888	USSR	2 JUL	722.0	65.4	37654	2909		
1980 057E		13999	USSR	2 JUL	715.3	65.1	37715	2515		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1980 LAUNCHES (CONT.)										
1980 058A	COSMOS 1192	11875	USSR	9 JUL	114.5	74.0	1471	1395		
1980 058B	COSMOS 1193	11876	USSR	9 JUL	114.7	74.0	1473	1411		
1980 058C	COSMOS 1194	11877	USSR	9 JUL	114.9	74.0	1472	1430		
1980 058D	COSMOS 1195	11878	USSR	9 JUL	115.1	74.0	1474	1447		
1980 058E	COSMOS 1196	11879	USSR	9 JUL	115.3	74.0	1474	1465		
1980 058F	COSMOS 1197	11880	USSR	9 JUL	115.5	74.0	1490	1469		
1980 058G	COSMOS 1198	11881	USSR	9 JUL	115.7	74.0	1506	1472		
1980 058H	COSMOS 1199	11882	USSR	9 JUL	116.0	74.0	1528	1471		
1980 058J		11883	USSR	9 JUL	117.6	74.0	1681	1467		
1980 060A	EKRAN 5	11890	USSR	14 JUL	1438.4	9.6	69711	1953		
1980 060F		14193	USSR	14 JUL	1417.3	3.3	35534	35302		
1980 063A	MOLNIYA 3-13	11896	USSR	18 JUL	717.8	63.7	38265	2090		
1980 063D		11909	USSR	18 JUL	732.5	63.9	38899	2179		
1980 069A	COSMOS 1206	11932	USSR	15 AUG	96.8	81.2	606	604		
1980 069B		11933	USSR	15 AUG	97.0	81.2	658	570		
1980 073A	METEOR 2-6	11962	USSR	9 SEP	102.2	81.2	889	837		
1980 073B		11963	USSR	9 SEP	102.3	81.3	905	826		
1980 074A	GOES 4	11964	US	9 SEP	1435.9	1.3	35796	35771	2209.000, 2214.000	4*
1980 074C		11970	US	9 SEP	2254.5	2.0	67235	33916		
1980 081A	RADUGA 7	12003	USSR	5 OCT	1436.2	3.2	35795	35781		
1980 081F		12447	USSR	5 OCT	1440.4	3.2	35894	35847		
1980 085A	COSMOS 1217	12032	USSR	24 OCT	717.3	66.9	38198	2131		
1980 085D		12035	USSR	24 OCT	721.9	67.2	38445	2113		
1980 087A	FLTSATCOM 4	12046	US	31 OCT	1436.2	1.2	35797	35777		
1980 087B		12059	US	31 OCT	347.2	26.3	19769	204		
1980 089A	COSMOS 1220	12054	USSR	4 NOV	99.2	65.0	864	571		
1980 089B - 089BV			USSR	4 NOV	SEE NOTE		29*			29*
1980 091A	SBS 1	12065	US	15 NOV	1436.1	0.0	35790	35782		
1980 092A	MOLNIYA 1-46	12066	USSR	16 NOV	717.8	64.5	38256	2096		
1980 092D		12070	USSR	16 NOV	733.6	64.7	39036	2094		
1980 093A	COSMOS 1222	12071	USSR	21 NOV	96.9	81.2	609	606		
1980 093B		12072	USSR	21 NOV	96.9	81.2	659	565		
1980 095A	COSMOS 1223	12078	USSR	27 NOV	718.1	63.4	37924	2445		
1980 095E		12086	USSR	27 NOV	723.4	63.8	38110	2520		
1980 097A	COSMOS 1225	12087	USSR	5 DEC	104.8	82.9	1026	943		
1980 097B		12088	USSR	5 DEC	104.6	82.9	1018	936		
1980 098A	INTELSAT 5 F-2	12089	ITSO	6 DEC	1436.2	0.0	35801	35774		
1980 098B		12445	US	6 DEC	248.8	23.7	13189	260		
1980 099A	COSMOS 1226	12091	USSR	10 DEC	104.8	82.9	1009	959		
1980 099B		12092	USSR	10 DEC	104.6	82.9	996	958		
1980 100A		12093	US	13 DEC	ELEMENTS NOT AVAILABLE					
1980 100B		12094	US	13 DEC	ELEMENTS NOT AVAILABLE					
1980 102A	COSMOS 1228	12107	USSR	23 DEC	114.4	74.0	1462	1392		
1980 102B	COSMOS 1229	12108	USSR	23 DEC	114.6	74.0	1462	1413		
1980 102C	COSMOS 1230	12109	USSR	23 DEC	114.5	74.0	1461	1399		
1980 102D	COSMOS 1231	12110	USSR	23 DEC	114.5	74.0	1462	1405		
1980 102E	COSMOS 1232	12111	USSR	23 DEC	114.6	74.0	1462	1411		
1980 102F	COSMOS 1233	12112	USSR	23 DEC	114.7	74.0	1462	1417		
1980 102G	COSMOS 1234	12113	USSR	23 DEC	114.6	74.0	1462	1408		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1980 LAUNCHES (CONT.)										
1980 102H	COSMOS 1235	12114	USSR	23 DEC	114.6	74.0	1462	1412		
1980 102J		12115	USSR	23 DEC	114.9	74.0	1466	1436		
1980 103A	PROGNOZ 8	12116	USSR	25 DEC	5687.8	65.8	197364	978		
1980 104A	EKRAN 6	12120	USSR	26 DEC	1436.9	3.0	35822	35780		
1980 104E		12471	USSR	26 DEC	1421.0	3.0	35615	35365		
1981 LAUNCHES										
1981 002A	MOLNIYA 3-14	12133	USSR	9 JAN	717.7	63.4	39325	1024		
1981 002B		12134	USSR	9 JAN	732.2	63.4	39924	1139		
1981 003A	COSMOS 1238	12138	USSR	16 JAN	108.1	83.0	1872	401		
1981 003B		12139	USSR	16 JAN	107.5	83.0	1821	399		
1981 006A	COSMOS 1241	12149	USSR	21 JAN	104.9	65.8	1006	976		
1981 006B		12150	USSR	21 JAN	104.7	65.8	1024	933		
1981 006C		12151	USSR	21 JAN	104.9	65.8	1005	973		
1981 008A	COSMOS 1242	12154	USSR	27 JAN	97.2	81.2	634	611		
1981 008B		12155	USSR	27 JAN	97.2	81.2	676	570		
1981 009A	MOLNIYA 1-49	12156	USSR	30 JAN	717.2	63.3	38465	1862		
1981 009D		12159	USSR	30 JAN	731.7	63.3	39077	1959		
1981 012A	KIKU 3	12295	JAPAN	11 FEB	546.7	28.4	31272	265		
1981 012C		12787	JAPAN	11 FEB	592.8	28.2	33753	239		
1981 013A	COSMOS 1244	12297	USSR	12 FEB	104.8	83.0	1005	960		
1981 013B		12298	USSR	12 FEB	104.7	83.0	998	957		
1981 016A	COSMOS 1247	12303	USSR	19 FEB	711.1	64.7	37378	2647		
1981 016E		12311	USSR	19 FEB	703.6	64.7	37059	2591		
1981 016F		12984	USSR	19 FEB	710.5	64.6	37350	2645		
1981 016G		12985	USSR	19 FEB	708.8	64.0	37458	2451		
1981 016H		12992	USSR	19 FEB	711.0	64.6	37379	2641		
1981 017A	ASTRO 1	12307	JAPAN	21 FEB	96.0	31.3	594	543		
1981 017B		12308	JAPAN	21 FEB	96.0	31.3	594	543		
1981 018A	COMSTAR 4	12309	US	21 FEB	1436.2	0.1	35785	35793		
1981 018B		12363	US	21 FEB	650.3	20.1	36297	674		
1981 021A	COSMOS 1249	12319	USSR	5 MAR	103.9	65.0	976	907		
1981 021C		12551	USSR	5 MAR	103.6	65.0	949	903		
1981 022A	COSMOS 1250	12320	USSR	6 MAR	114.4	74.0	1469	1388		
1981 022B	COSMOS 1251	12321	USSR	6 MAR	114.6	74.0	1471	1401		
1981 022C	COSMOS 1252	12322	USSR	6 MAR	114.7	74.0	1470	1416		
1981 022D	COSMOS 1253	12323	USSR	6 MAR	115.6	74.0	1494	1466		
1981 022E	COSMOS 1254	12324	USSR	6 MAR	114.9	74.0	1471	1429		
1981 022F	COSMOS 1255	12325	USSR	6 MAR	115.0	74.0	1470	1443		
1981 022G	COSMOS 1256	12326	USSR	6 MAR	115.2	74.0	1475	1454		
1981 022H	COSMOS 1257	12327	USSR	6 MAR	115.4	74.0	1478	1466		
1981 022J		12328	USSR	6 MAR	117.6	74.0	1693	1455		
1981 025A		12339	US	16 MAR	ELEMENTS NOT AVAILABLE					
1981 025C		12371	US	16 MAR	ELEMENTS NOT AVAILABLE					
1981 027A	RADUGA 8	12351	USSR	13 MAR	1646.4	0.8	48604	31012		
1981 027F		14194	USSR	13 MAR	1474.5	3.0	36614	36455		
1981 028B - 028BJ			USSR	20 MAR	SEE NOTE		30*			30*
1981 030A	MOLNIYA 3-15	12368	USSR	24 MAR	717.7	64.8	39616	735		
1981 030D		12333	USSR	24 MAR	732.7	64.9	40365	722		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1981 LAUNCHES (CONT.)										
1981 031A	COSMOS 1261	12376	USSR	31 MAR	717.3	64.0	37663	2669		
1981 031D		12384	USSR	31 MAR	707.4	63.9	37228	2614		
1981 031E		12892	USSR	31 MAR	719.1	63.6	37669	2752		
1981 031F		12893	USSR	31 MAR	715.4	63.3	38073	2164		
1981 031G		12894	USSR	31 MAR	717.5	63.5	37807	2535		
1981 033A	COSMOS 1263	12388	USSR	9 APR	108.0	83.0	1879	392		
1981 033B		12389	USSR	9 APR	107.3	83.0	1821	381		
1981 036E		12427	USSR	16 APR	103.3	98.8	1051	779		
1981 037A	COSMOS 1266	12409	USSR	21 APR	103.6	64.8	965	891		
1981 037D		12435	USSR	21 APR	103.4	64.8	943	890		
1981 038A		12416	US	24 APR	ELEMENTS NOT AVAILABLE					
1981 038B		12446	US	24 APR	ELEMENTS NOT AVAILABLE					
1981 041A	COSMOS 1269	12442	USSR	7 MAY	100.8	74.1	803	788		
1981 041B		12443	USSR	7 MAY	100.7	74.1	803	781		
1981 041C		13498	USSR	7 MAY	100.8	74.0	809	787		
1981 041D		14346	USSR	7 MAY	100.5	74.1	793	771		
1981 043A	METEOR 2-7	12456	USSR	14 MAY	102.3	81.3	887	847		
1981 043B		12457	USSR	14 MAY	102.4	81.3	919	826		
1981 044A		12458	US	15 MAY	ELEMENTS NOT AVAILABLE					
1981 046A	COSMOS 1271	12464	USSR	19 MAY	97.1	81.2	632	611		
1981 046B		12465	USSR	19 MAY	97.3	81.2	673	589		
1981 049A	GOES 5	12472	US	22 MAY	1435.9	0.1	35788	35780	2209.086, 2214.000	4*
1981 050A	INTELSAT 5 F-1	12474	ITSO	23 MAY	1436.2	0.0	35800	35778		
1981 050B		12497	US	23 MAY	237.9	24.0	12436	240		
1981 053A	COSMOS 1275	12504	USSR	4 JUN	104.8	83.0	1006	959		
1981 053B - 053KB			USSR	4 JUN	SEE NOTE		31*			31*
1981 054A	MOLNIYA 3-16	12512	USSR	9 JUN	717.7	63.4	39621	730		
1981 054E		12519	USSR	9 JUN	733.6	63.4	40311	820		
1981 057A	METEOSAT 2	12544	ESA	19 JUN	1436.1	0.1	35794	35781		
1981 057B	APPLE	12545	INDIA	19 JUN	1447.7	0.8	36478	35548		
1981 057C		12546	ESA	19 JUN	592.8	10.7	33755	238		
1981 057D		12562	ESA	19 JUN	456.2	10.5	26249	252		
1981 057E		14125	ESA	19 JUN	509.4	10.8	29277	223		
1981 058A	COSMOS 1278	12547	USSR	19 JUN	718.8	66.1	38527	1876		
1981 058D		12561	USSR	19 JUN	724.1	66.9	38756	1907		
1981 059A	NOAA 7	12553	US	23 JUN	101.8	99.1	854	837	136.770,137.770, 1702.500	4*
1981 059B		12559	US	23 JUN	101.6	99.0	839	831		
1981 059C		12560	US	23 JUN	101.6	99.0	838	831		
1981 060A	MOLNIYA I-50	12556	USSR	24 JUN	717.6	64.8	39376	969		
1981 060D		12563	USSR	24 JUN	732.0	65.0	40102	950		
1981 061A	EKRAN 7	12564	USSR	25 JUN	1436.6	2.6	35810	35780		
1981 061E		12851	USSR	25 JUN	1425.6	2.6	35602	35559		
1981 065A	METEOR 1-31	12585	USSR	10 JUL	97.4	97.8	658	609		
1981 065B		12586	USSR	10 JUL	97.5	97.8	654	621		
1981 069A	RADUGA 9	12618	USSR	30 JUL	1435.8	2.5	36095	35464		
1981 069F		12850	USSR	30 JUL	1474.0	2.6	36611	36436		
1981 070A	DE 1	12624	US	3 AUG	410.5	89.7	23330	506	2214.000	4*
1981 070C		12626	US	3 AUG	94.8	89.9	661	351		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1981 LAUNCHES (CONT.)										
1981 070E		12679	US	3 AUG	412.3	89.7	23440	504		
1981 070J		14620	US	3 AUG	406.8	89.8	23097	518		
1981 070K		14621	US	3 AUG	409.9	90.0	23289	510		
1981 071A	COSMOS 1285	12627	USSR	4 AUG	726.9	63.9	38192	2612		
1981 071D		12680	USSR	4 AUG	722.8	63.8	38015	2587		
1981 071E		12993	USSR	4 AUG	727.7	63.8	38245	2598		
1981 071F		13951	USSR	4 AUG	726.9	64.0	38215	2586		
1981 073A	FLTSATCOM 5	12635	US	6 AUG	1436.3	4.5	35860	35721		
1981 074A	COSMOS 1287	12636	USSR	6 AUG	115.7	74.0	1511	1462		
1981 074B	COSMOS 1288	12637	USSR	6 AUG	115.5	74.0	1491	1462		
1981 074C	COSMOS 1289	12638	USSR	6 AUG	114.7	74.0	1462	1424		
1981 074D	COSMOS 1290	12639	USSR	6 AUG	114.9	74.0	1462	1440		
1981 074E	COSMOS 1291	12640	USSR	6 AUG	115.1	74.0	1462	1456		
1981 074F	COSMOS 1292	12641	USSR	6 AUG	115.3	74.0	1475	1461		
1981 074G	COSMOS 1293	12642	USSR	6 AUG	114.6	74.0	1462	1408		
1981 074H	COSMOS 1294	12643	USSR	6 AUG	114.4	74.0	1462	1391		
1981 074J		12644	USSR	6 AUG	117.4	74.0	1670	1461		
1981 075A	INTERCOSMOS BULGARIA 1300	12645	USSR	7 AUG	101.7	81.2	889	792		
1981 075B		12646	USSR	7 AUG	101.8	81.2	895	795		
1981 076A	GMS 2	12677	JAPAN	10 AUG	1436.3	1.0	35791	35788		
1981 076C		12810	JAPAN	10 AUG	437.7	28.7	25226	208		
1981 077A	COSMOS 1295	12681	USSR	12 AUG	104.7	82.9	1011	944		
1981 077B		12682	USSR	12 AUG	104.5	82.9	1002	942		
1981 081A	COSMOS 1299	12783	USSR	24 AUG	104.0	65.1	971	919		
1981 081D		12808	USSR	24 AUG	103.7	65.1	948	918		
1981 082A	COSMOS 1300	12785	USSR	24 AUG	97.5	82.5	651	625		
1981 082B		12786	USSR	24 AUG	97.6	82.5	654	628		
1981 084A	COSMOS 1302	12791	USSR	28 AUG	100.7	74.0	804	777		
1981 084B		12792	USSR	28 AUG	100.6	74.0	798	772		
1981 084C		12793	USSR	28 AUG	100.8	74.0	797	791		
1981 084D		14810	USSR	28 AUG	101.2	74.0	831	798		
1981 087A	COSMOS 1304	12803	USSR	4 SEP	103.9	82.9	975	905		
1981 087B		12804	USSR	4 SEP	103.7	82.9	971	899		
1981 088A	COSMOS 1305	12818	USSR	11 SEP	263.7	63.0	13670	815		
1981 088F		12827	USSR	11 SEP	262.4	63.0	13601	794		
1981 088G		14131	USSR	11 SEP	251.4	62.9	13018	614		
1981 089F		13404	USSR	14 SEP	97.7	65.0	760	540		
1981 089J		14837	USSR	14 SEP	97.9	65.0	770	548		
1981 091A	COSMOS 1308	12835	USSR	18 SEP	104.7	82.9	1001	962		
1981 091B		12836	USSR	18 SEP	104.7	82.9	993	963		
1981 094A	JREOL 3	12848	USSR	21 SEP	108.5	82.5	1912	401		
1981 094B		12849	USSR	21 SEP	109.0	82.5	1958	402		
1981 095A	COSMOS 1310	12852	USSR	23 SEP	93.2	65.8	449	413		
1981 096A	SBS 2	12855	US	24 SEP	1436.2	0.0	35791	35785		
1981 098A	COSMOS 1312	12879	USSR	30 SEP	115.9	82.6	1501	1488		
1981 098B		12880	USSR	30 SEP	115.8	82.6	1498	1485		
1981 100A	SME	12887	US	6 OCT	94.8	97.6	510	506	2287.494	4*
1981 100B	UOSAT	12888	UK	6 OCT	94.3	97.6	484	479		
1981 100C		12889	US	6 OCT	119.1	99.9	2732	551		

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1981 LAUNCHES (CONT.)										
1981 102A	RADUGA 10	12897	USSR	9 OCT	1436.1	2.4	35795	35779		
1981 102F		14195	USSR	9 OCT	1436.6	2.4	36059	35531		
1981 103A	COSMOS 1315	12903	USSR	13 OCT	97.4	81.2	650	614		
1981 103B		12904	USSR	13 OCT	97.5	81.2	673	602		
1981 105A	MOLNIYA 3-17	12915	USSR	17 OCT	717.8	64.4	38753	1600		
1981 105E		12920	USSR	17 OCT	733.2	64.6	39521	1591		
1981 106A	VENERA 13	12927	USSR	30 OCT	HELIOCENTRIC ORBIT					
1981 107A		12930	US	31 OCT	ELEMENTS NOT AVAILABLE					
1981 107C		12932	US	31 OCT	ELEMENTS NOT AVAILABLE					
1981 108A	COSMOS 1317	12933	USSR	31 OCT	719.3	62.9	38581	1849		
1981 108D		12940	USSR	31 OCT	723.2	63.6	38711	1909		
1981 108E		14734	USSR	31 OCT	719.4	62.9	38656	1776		
1981 108F		14735	USSR	31 OCT	718.4	63.1	38716	1666		
1981 108G		14736	USSR	31 OCT	719.4	62.9	38860	1576		
1981 110A	VENERA 14	12938	USSR	4 NOV	HELIOCENTRIC ORBIT					
1981 113A	MOLNIYA 1-51	12959	USSR	17 NOV	717.7	63.4	39892	459		
1981 113D		12986	USSR	17 NOV	698.9	63.4	38939	480		
1981 114A	RCA SATCOM IIIR	12967	US	20 NOV	1436.1	0.1	35794	35779		
1981 114B		13098	US	20 NOV	214.0	27.4	10751	193		
1981 115A	BHASKARA 2	12968	INDIA	20 NOV	94.8	50.6	521	499		
1981 115B		12969	USSR	20 NOV	94.3	50.7	506	460		
1981 116A	COSMOS 1320	12975	USSR	28 NOV	117.2	74.0	1632	1479		
1981 116B	COSMOS 1321	12976	USSR	28 NOV	117.2	74.0	1629	1480		
1981 116C	COSMOS 1322	12977	USSR	28 NOV	117.2	74.0	1627	1479		
1981 116D	COSMOS 1323	12978	USSR	28 NOV	117.1	74.0	1622	1480		
1981 116E	COSMOS 1324	12979	USSR	28 NOV	117.1	74.0	1617	1480		
1981 116F	COSMOS 1325	12980	USSR	28 NOV	117.0	74.0	1614	1480		
1981 116G	COSMOS 1326	12981	USSR	28 NOV	117.0	74.0	1609	1479		
1981 116H	COSMOS 1327	12982	USSR	28 NOV	116.9	74.0	1601	1480		
1981 116J		12983	USSR	28 NOV	117.5	74.0	1656	1485		
1981 117A	COSMOS 1328	12987	USSR	3 DEC	97.5	82.5	653	626		
1981 117B		12988	USSR	3 DEC	97.6	82.5	656	628		
1981 119A	INTELSAT 5 F-3	12994	ITSO	15 DEC	1436.1	0.0	35801	35772		
1981 119B		13007	US	15 DEC	343.5	23.7	19522	213		
1981 120A	RADIO 3	12997	USSR	17 DEC	118.4	83.0	1655	1563		
1981 120B	RADIO 8	12998	USSR	17 DEC	119.6	83.0	1681	1648		
1981 120C	RADIO 5	12999	USSR	17 DEC	119.4	83.0	1664	1646		
1981 120D	RADIO 4	13000	USSR	17 DEC	119.3	83.0	1663	1633		
1981 120E	RADIO 7	13001	USSR	17 DEC	119.1	83.0	1657	1621		
1981 120F	RADIO 6	13002	USSR	17 DEC	118.6	83.0	1657	1578		
1981 120G		13003	USSR	17 DEC	120.8	83.0	1777	1656		
1981 122A	MARECS A	13010	ESA	20 DEC	1436.1	0.9	35805	35771		
1981 122B	CAT 4	13011	ESA	20 DEC	606.0	10.3	34404	280		
1981 122C		13025	ESA	20 DEC	417.3	10.6	24068	170		
1981 123A	MOLNIYA 1-52	13012	USSR	23 DEC	717.8	63.2	38430	1923		
1981 123D		13016	USSR	23 DEC	695.3	63.2	37458	1779		
1982 LAUNCHES										
1982 001A	COSMOS 1331	13027	USSR	7 JAN	100.6	74.0	806	768		

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1982 LAUNCHES (CONT.)										
1982 001B		13028	USSR	7 JAN	100.5	74.0	801	764		
1982 001C		13029	USSR	7 JAN	100.7	74.0	805	782		
1982 001D		13030	USSR	7 JAN	100.4	74.0	798	755		
1982 003A	COSMOS 1333	13033	USSR	14 JAN	104.9	82.9	1013	965		
1982 003B		13034	USSR	14 JAN	104.8	82.9	1006	959		
1982 004A	RCA SATCOM IV	13035	US	16 JAN	1436.2	0.0	35795	35781		
1982 004B		13088	US	16 JAN	415.8	27.1	23954	198		
1982 006C		13103	US	21 JAN	ELEMENTS NOT AVAILABLE					
1982 006D		13104	US	21 JAN	ELEMENTS NOT AVAILABLE					
1982 006E		13105	US	21 JAN	ELEMENTS NOT AVAILABLE					
1982 006F		13152	US	21 JAN	ELEMENTS NOT AVAILABLE					
1982 007A	COSMOS 1335	13042	USSR	29 JAN	92.4	74.0	402	385		
1982 007B		13043	USSR	29 JAN	91.7	74.0	363	350		
1982 009A	EKRAN 8	13056	USSR	5 FEB	1440.9	1.9	36783	34976		
1982 009D		13059	USSR	5 FEB	538.2	48.3	29461	1614		
1982 009F		14117	USSR	5 FEB	1426.0	2.0	35743	35433		
1982 012A	COSMOS 1339	13065	USSR	17 FEB	104.7	82.9	1012	950		
1982 012B		13066	USSR	17 FEB	104.6	82.9	1004	948		
1982 013A	COSMOS 1340	13067	USSR	19 FEB	97.3	81.2	640	620		
1982 013B		13068	USSR	19 FEB	97.4	81.2	660	603		
1982 014A	WESTAR 4	13069	US	26 FEB	1436.1	0.0	35794	35779		
1982 014B		13136	US	26 FEB	392.1	27.0	22542	194		
1982 015A	MOLNIYA 1-53	13070	USSR	26 FEB	717.7	63.8	38985	1364		
1982 015D		13075	USSR	26 FEB	730.9	63.8	39656	1342		
1982 016A	COSMOS 1341	13080	USSR	3 MAR	718.0	64.6	38277	2085		
1982 016D		13090	USSR	3 MAR	708.9	64.8	37844	2071		
1982 017A	INTELSAT 5 F-4	13083	ITSO	5 MAR	1436.1	0.0	35800	35774		
1982 019A		13086	US	6 MAR	ELEMENTS NOT AVAILABLE					
1982 019B		13089	US	6 MAR	ELEMENTS NOT AVAILABLE					
1982 020A	HORIZONT 5	13092	USSR	15 MAR	1436.3	1.9	35790	35788		
1982 020F		13899	USSR	15 MAR	1460.0	1.9	36373	36132		
1982 023A	MOLNIYA 3-18	13107	USSR	24 MAR	717.7	64.7	39734	614		
1982 023D		13112	USSR	24 MAR	732.2	64.8	40482	583		
1982 024A	COSMOS 1344	13110	USSR	24 MAR	104.8	82.9	1008	965		
1982 024B		13111	USSR	24 MAR	104.8	82.9	1012	954		
1982 025A	METEOR 2	13113	USSR	25 MAR	104.0	82.5	958	936		
1982 025B		13114	USSR	25 MAR	104.0	82.5	957	935		
1982 026A	COSMOS 1345	13118	USSR	31 MAR	94.3	74.0	501	468		
1982 026B		13119	USSR	31 MAR	94.3	74.0	501	467		
1982 027A	COSMOS 1346	13120	USSR	31 MAR	97.4	81.2	652	613		
1982 027B		13121	USSR	31 MAR	97.4	81.2	671	601		
1982 029A	COSMOS 1348	13124	USSR	7 APR	718.9	62.8	39082	1325		
1982 029D		13169	USSR	7 APR	705.4	63.4	38374	1366		
1982 030A	COSMOS 1349	13127	USSR	8 APR	104.8	82.9	1011	962		
1982 030B		13128	USSR	8 APR	104.7	82.9	999	963		
1982 031A	INSAT-1A	13129	INDIA	10 APR	1434.2	0.1	35936	35562		
1982 033A	SALYUT 7	13138	USSR	19 APR	91.9	51.6	369	365		
1982 033B - 033EK			USSR	19 APR	SEE NOTE		34*			34*
1982 037A	COSMOS 1354	13148	USSR	28 APR	100.8	74.0	804	789		
1982 037B		13149	USSR	28 APR	100.7	74.0	804	781		

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1982 LAUNCHES (CONT.)										
1982 037C		14611	USSR	28 APR	101.3	74.0	839	801		
1982 039A	COSMOS 1356	13153	USSR	5 MAY	97.6	81.2	660	626		
1982 039B		13154	USSR	5 MAY	97.7	81.2	694	604		
1982 040A	COSMOS 1357	13160	USSR	6 MAY	114.6	74.0	1476	1399		
1982 040B	COSMOS 1358	13161	USSR	6 MAY	114.8	74.0	1479	1414		
1982 040C	COSMOS 1359	13162	USSR	6 MAY	115.0	74.0	1478	1431		
1982 040D	COSMOS 1360	13163	USSR	6 MAY	115.2	74.0	1480	1444		
1982 040E	COSMOS 1361	13164	USSR	6 MAY	115.3	74.0	1482	1459		
1982 040F	COSMOS 1362	13165	USSR	6 MAY	115.5	74.0	1494	1464		
1982 040G	COSMOS 1363	13166	USSR	6 MAY	115.7	74.0	1503	1471		
1982 040H	COSMOS 1364	13167	USSR	6 MAY	115.9	74.0	1522	1471		
1982 040J		13168	USSR	6 MAY	117.7	74.0	1679	1477		
1982 041C		13172	US	11 MAY	ELEMENTS NOT AVAILABLE					
1982 043A	COSMOS 1365	13175	USSR	14 MAY	103.7	65.1	984	878		
1982 043D		13594	USSR	14 MAY	103.4	65.1	966	868		
1982 044A	COSMOS 1366	13177	USSR	17 MAY	1436.1	1.6	35818	35754		
1982 044F		14114	USSR	17 MAY	1436.3	1.6	35855	35725		
1982 045A	COSMOS 1367	13205	USSR	20 MAY	718.8	63.4	39210	1195		
1982 045D		13215	USSR	20 MAY	704.1	64.1	38444	1231		
1982 050A	MOLNIYA 1-54	13237	USSR	28 MAY	717.7	64.3	39872	476		
1982 050E		13253	USSR	28 MAY	732.1	64.4	40606	454		
1982 051A	COSMOS 1371	13241	USSR	1 JUN	100.8	74.0	808	787		
1982 051B		13242	USSR	1 JUN	100.7	74.0	807	772		
1982 051C		14398	USSR	1 JUN	101.0	74.1	809	803		
1982 052A	COSMOS 1372	13243	USSR	1 JUN	103.9	64.9	976	909		
1982 052D		13416	USSR	1 JUN	103.6	64.9	954	902		
1982 055A	COSMOS 1375	13259	USSR	6 JUN	105.0	65.8	1009	979		
1982 055B		13260	USSR	6 JUN	104.9	65.8	995	980		
1982 055C		13261	USSR	6 JUN	105.0	65.8	1007	979		
1982 058A	WESTAR 5	13269	US	9 JUN	1436.3	0.0	35796	35783		
1982 058B		13294	US	9 JUN	462.5	27.4	26652	214		
1982 059A	COSMOS 1378	13271	USSR	10 JUN	97.5	82.5	656	625		
1982 059B		13272	USSR	10 JUN	97.6	82.5	658	626		
1982 064A	COSMOS 1382	13295	USSR	25 JUN	718.7	62.8	38307	2091		
1982 064D		13298	USSR	25 JUN	708.4	63.2	37820	2072		
1982 066A	COSMOS 1383	13301	USSR	29 JUN	105.2	82.9	1024	986		
1982 066B		13302	USSR	29 JUN	105.1	82.9	1020	981		
1982 069A	COSMOS 1386	13353	USSR	7 JUL	104.7	83.0	1006	949		
1982 069B		13354	USSR	7 JUL	104.5	83.0	997	947		
1982 072A	LANDSAT 4	13367	US	16 JUL	98.8	98.2	700	699	2287.500, 2265.500	
1982 073A	COSMOS 1388	13375	USSR	21 JUL	114.5	74.0	1473	1390		
1982 073B	COSMOS 1389	13376	USSR	21 JUL	114.7	74.0	1474	1407		
1982 073C	COSMOS 1390	13377	USSR	21 JUL	114.9	74.0	1473	1424		
1982 073D	COSMOS 1391	13378	USSR	21 JUL	115.0	74.0	1474	1440		
1982 073E	COSMOS 1392	13379	USSR	21 JUL	115.2	74.0	1473	1458		
1982 073F	COSMOS 1393	13380	USSR	21 JUL	115.4	74.0	1481	1468		
1982 073G	COSMOS 1394	13381	USSR	21 JUL	115.6	74.0	1493	1473		
1982 073H	COSMOS 1395	13382	USSR	21 JUL	115.8	74.0	1513	1472		
1982 073J		13386	USSR	21 JUL	117.9	74.0	1707	1465		

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1982 LAUNCHES (CONT.)										
1982 074A	MOLNIYA 1-55	13383	USSR	21 JUL	717.7	64.7	39723	624		
1982 074D		13390	USSR	21 JUL	698.6	64.6	38774	629		
1982 079A	COSMOS 1400	13402	USSR	5 AUG	97.4	81.2	643	621		
1982 079B		13403	USSR	5 AUG	97.5	81.2	680	598		
1982 082A	ANIK D-1	13431	CANADA	26 AUG	1436.1	0.0	35791	35783		
1982 082C		13447	US	26 AUG	336.9	24.6	19158	159		
1982 083A	MOLNIYA 3-19	13432	USSR	27 AUG	717.8	63.1	38870	1486		
1982 083E		13446	USSR	27 AUG	733.1	63.1	39562	1545		
1982 087A	ETS 3	13492	JAPAN	3 SEP	107.2	44.6	1229	967		
1982 087B		13493	JAPAN	3 SEP	104.8	44.6	1008	961		
1982 087C		13510	JAPAN	3 SEP	107.4	44.6	1246	962		
1982 087D		14569	JAPAN	3 SEP	106.3	44.8	1148	964		
1982 092A	COSMOS 1408	13552	USSR	16 SEP	97.6	82.6	661	624		
1982 092B		13553	USSR	16 SEP	97.6	82.6	661	625		
1982 093A	EKRAN 9	13554	USSR	16 SEP	1436.0	1.5	36695	34873		
1982 093F		14115	USSR	16 SEP	1422.3	1.6	35542	35487		
1982 095A	COSMOS 1409	13585	USSR	22 SEP	717.8	64.4	39158	1199		
1982 095D		13591	USSR	22 SEP	707.2	64.8	38623	1206		
1982 096A	COSMOS 1410	13589	USSR	24 SEP	115.9	82.6	1498	1491		
1982 096B		13590	USSR	24 SEP	115.8	82.6	1497	1487		
1982 097A	INTELSAT 5F 5	13595	ITSO	28 SEP	1436.1	0.0	35801	35773		
1982 097B		13599	US	28 SEP	223.9	24.4	11451	217		
1982 099A	COSMOS 1412	13600	USSR	2 OCT	103.9	64.8	985	901		
1982 099E		13653	USSR	2 OCT	103.6	64.8	954	901		
1982 100A	COSMOS 1413	13603	USSR	12 OCT	673.3	64.7	19072	19065		
1982 100D	COSMOS 1414	13606	USSR	12 OCT	675.7	64.6	19153	19105		
1982 100F	COSMOS 1415	13607	USSR	12 OCT	673.5	64.7	19076	19069		
1982 100F		13608	USSR	12 OCT	337.0	52.0	18959	364		
1982 100G		13609	USSR	12 OCT	333.5	52.1	18787	317		
1982 100H		13610	USSR	12 OCT	672.9	64.7	19069	19045		
1982 102A	COSMOS 1417	13617	USSR	19 OCT	104.7	83.0	1006	957		
1982 102B		13618	USSR	19 OCT	104.6	83.0	1001	952		
1982 103A	HORIZONT 6	13624	USSR	20 OCT	1436.1	1.1	35795	35778		
1982 103E		13630	USSR	20 OCT	1435.2	1.1	35824	35714		
1982 105A	RCA SATCOM-V	13631	US	28 OCT	1436.2	0.0	35792	35783		
1982 105B		13632	US	28 OCT	118.9	26.6	3024	237		
1982 106A		13636	US	30 OCT	1436.1	0.6	35789	35783		
1982 106B		13637	US	30 OCT	1436.1	0.0	35797	35775		
1982 106D		13643	US	30 OCT	1449.3	0.7	38561	33527		
1982 109A	COSMOS 1420	13648	USSR	11 NOV	100.7	74.0	807	775		
1982 109B		13649	USSR	11 NOV	100.6	74.0	801	771		
1982 109C		14227	USSR	11 NOV	100.2	74.0	784	751		
1982 110B	SBS 3	13651	US	11 NOV	1436.1	0.0	35790	35782		35*
1982 110C	ANIK C-3	13652	CANADA	12 NOV	1436.1	0.0	35793	35780		35*
1982 110D		13658	US	11 NOV	657.4	23.0	37053	278		
1982 110E		13666	US	11 NOV	656.7	22.7	37014	284		
1982 111A		13659	US	17 NOV	ELEMENTS NOT AVAILABLE					
1982 113A	RADUGA 11	13669	USSR	26 NOV	1436.4	0.6	35794	35789		
1982 113F		13954	USSR	26 NOV	1475.9	0.6	36647	36476		
1982 115A	COSMOS 1423	13685	USSR	8 DEC	92.2	62.8	429	330		

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1982 LAUNCHES (CONT.)										
1982 115B - 115AG			USSR	8 DEC	SEE NOTE	32*				32*
1982 116A	METEOR 2-9	13718	USSR	14 DEC	101.9	81.2	886	806		
1982 116B		13719	USSR	14 DEC	101.9	81.3	899	799		
1982 116C		13720	USSR	14 DEC	101.8	81.2	888	803		
1982 118A		13736	US	21 DEC	101.2	98.7	822	810		
1982 118B		13737	US	21 DEC	101.0	98.7	806	805		
1982 118C		13738	US	21 DEC	101.1	98.7	814	804		
1982 118D		13773	US	21 DEC	101.0	98.7	806	805		
1982 118E		13774	US	21 DEC	101.0	98.7	814	797		
1982 121A	COSMOS 1427	13750	USSR	29 DEC	93.6	65.8	476	422		
1982 121B		13751	USSR	29 DEC	92.9	65.8	444	391		
1983 LAUNCHES										
									2035.960, 1702.000	
1983 001A	COSMOS 1428	13757	USSR	12 JAN	104.6	82.9	1003	949		
1983 001B		13758	USSR	12 JAN	104.5	82.9	994	948		
1983 001C		14568	USSR	12 JAN	104.3	82.9	987	940		
1983 002A	COSMOS 1429	13761	USSR	19 JAN	115.8	74.0	1517	1464		
1983 002B	COSMOS 1430	13762	USSR	19 JAN	115.6	74.0	1497	1464		
1983 002C	COSMOS 1431	13763	USSR	19 JAN	115.4	74.0	1482	1463		
1983 002D	COSMOS 1432	13764	USSR	19 JAN	115.2	74.0	1466	1461		
1983 002E	COSMOS 1433	13765	USSR	19 JAN	115.0	74.0	1465	1444		
1983 002F	COSMOS 1434	13766	USSR	19 JAN	114.8	74.0	1465	1429		
1983 002G	COSMOS 1435	13767	USSR	19 JAN	114.7	74.0	1465	1413		
1983 002H	COSMOS 1436	13768	USSR	19 JAN	114.5	74.0	1464	1397		
1983 002J		13769	USSR	19 JAN	117.8	74.0	1694	1473		
1983 003A	COSMOS 1437	13770	USSR	20 JAN	97.5	81.2	650	622		
1983 003B		13771	USSR	20 JAN	97.5	81.2	677	598		
1983 004A	IRAS	13777	US	26 JAN	103.0	99.1	910	889	2253.000	4*
1983 004B		13778	US	26 JAN	102.4	100.0	887	855		
1983 004C		13783	US	26 JAN	103.0	99.1	906	890		
1983 006A	CS-2A	13782	JAPAN	4 FEB	1436.2	0.1	35792	35785		
1983 006B		13786	JAPAN	4 FEB	467.1	28.8	26951	177		
1983 008A		13791	US	9 FEB	ELEMENTS NOT AVAILABLE					
1983 008B		13792	US	9 FEB	ELEMENTS NOT AVAILABLE					
1983 008C		13834	US	9 FEB	ELEMENTS NOT AVAILABLE					
1983 008D		13835	US	9 FEB	ELEMENTS NOT AVAILABLE					
1983 008E		13844	US	9 FEB	ELEMENTS NOT AVAILABLE					
1983 008F		13845	US	9 FEB	ELEMENTS NOT AVAILABLE					
1983 008G		13849	US	9 FEB	ELEMENTS NOT AVAILABLE					
1983 008H		13874	US	9 FEB	ELEMENTS NOT AVAILABLE					
1983 010A	COSMOS 1441	13818	USSR	16 FEB	97.3	81.1	635	623		
1983 010B		13819	USSR	16 FEB	97.3	81.1	676	587		
1983 011A	ASTRO-B	13829	JAPAN	20 FEB	94.0	31.5	473	462		
1983 011B		13830	JAPAN	20 FEB	94.1	31.5	476	468		
1983 011D		14566	JAPAN	20 FEB	93.9	31.3	486	440		
1983 011E		14567	JAPAN	20 FEB	90.5	31.7	300	296		
1983 015A	MOLNIYA 3-20	13875	USSR	11 MAR	717.8	63.2	39114	1241		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1983 LAUNCHES (CONT.)										
1983 015E		13882	USSR	11 MAR	731.9	63.2	39804	1244		
1983 016A	EKRAN 10	13878	USSR	12 MAR	1436.2	0.6	35800	35775		
1983 016D		13884	USSR	12 MAR	628.3	46.9	35315	529		
1983 016E		13885	USSR	12 MAR	623.4	46.9	35114	476		
1983 016F		14086	USSR	12 MAR	1424.3	1.7	35602	35509		
1983 019A	MOLNIYA 1-56	13890	USSR	16 MAR	717.7	63.4	39485	864		
1983 019D		13897	USSR	16 MAR	732.6	63.5	40244	840		
1983 020A	ASTRON	13901	USSR	23 MAR	5921.4	78.4	181927	22156		
1983 020B		13902	USSR	23 MAR	96.8	51.5	996	215		
1983 020C		13903	USSR	23 MAR	96.7	51.5	984	214		
1983 021A	COSMOS 1447	13916	USSR	24 MAR	104.8	82.9	1010	956		
1983 021B		13917	USSR	24 MAR	104.7	82.9	1001	955		
1983 022A	NOAA 8	13923	US	28 MAR	101.2	98.7	825	802	136.770,137.770, 1698.000,	4*
1983 022B		13924	US	28 MAR	101.0	98.7	813	798		
1983 022C		14477	US	28 MAR	101.0	98.7	814	799		
1983 023A	COSMOS 1448	13949	USSR	30 MAR	104.7	83.0	1001	958		
1983 023B		13950	USSR	30 MAR	104.6	83.0	992	957		
1983 025A	MOLNIYA 1-57	13964	USSR	2 APR	717.7	63.1	39249	1102		
1983 025D		13967	USSR	2 APR	699.3	63.0	38363	1074		
1983 026B	TDRS 1	13969	US	4 APR	1436.0	0.8	35788	35782	2211.000, 2232.500	35*
1983 026C		13970	US	4 APR	1089.7	1.1	35252	22146		
1983 026D		13971	US	4 APR	609.6	26.2	34619	252		
1983 027A	COSMOS 1450	13972	USSR	6 APR	94.2	65.8	500	455		
1983 027B		13973	USSR	6 APR	93.8	65.9	485	435		
1983 028A	RADUGA 12	13974	USSR	8 APR	1436.5	0.3	35902	35685		
1983 028E		13980	USSR	8 APR	529.0	48.0	30543	35		
1983 028F		13983	USSR	8 APR	1439.3	0.2	35964	35734		
1983 030A	RCA SATCOM VI	13984	US	11 APR	1436.1	0.0	35794	35779		
1983 030B		13985	US	11 APR	128.9	25.4	3844	304		
1983 030C		13990	US	11 APR	511.7	23.7	29403	226		
1983 031A	COSMOS 1452	13991	USSR	12 APR	100.7	74.1	806	780		
1983 031B		13992	USSR	12 APR	100.6	74.1	802	775		
1983 031D		14812	USSR	12 APR	101.3	74.1	837	804		
1983 033A	ROHINI 3	14002	INDIA	17 APR	96.6	46.6	808	385		
1983 033B		14003	INDIA	17 APR	96.2	46.6	769	383		
1983 033C		14004	INDIA	17 APR	94.7	46.6	641	367		
1983 033D		14224	INDIA	17 APR	95.4	46.8	707	367		
1983 033E		14225	INDIA	17 APR	96.1	46.4	755	386		
1983 034A	COSMOS 1453	14006	USSR	19 APR	94.0	74.0	488	449		
1983 034B		14007	USSR	19 APR	93.9	74.0	485	441		
1983 034Y		15376	USSR	19 APR	93.8	74.0	479	437		
1983 034Z		15377	USSR	19 APR	93.4	74.0	454	427		
1983 037A	COSMOS 1455	14032	USSR	23 APR	97.6	82.5	661	629		
1983 037B		14033	USSR	23 APR	97.6	82.5	660	628		
1983 038A	COSMOS 1456	14034	USSR	25 APR	717.1	65.5	39179	1141		
1983 038E		14041	USSR	25 APR	707.3	65.3	38695	1141		
1983 038H		14297	USSR	25 APR	718.7	65.5	39247	1152		
1983 038J		14301	USSR	25 APR	717.6	63.9	40007	339		

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1983 LAUNCHES (CONT.)										
1983 038K		14306	USSR	25 APR	720.6	64.3	39697	795		
1983 041A	GOES 6	14050	US	28 APR	1436.2	0.1	35850	35728	2214.000, 2209.086	4*
1983 041B		14051	US	28 APR	118.4	25.4	2809	407		
1983 041C		14069	US	28 APR	1703.3	1.1	54273	27461		
1983 041D		14196	US	28 APR	864.5	22.8	47317	50		
1983 042A	COSMOS 1459	14057	USSR	6 MAY	104.6	83.0	1016	940		
1983 042B		14059	USSR	6 MAY	104.5	83.0	1008	936		
1983 044A	COSMOS 1461	14064	USSR	7 MAY	99.3	65.0	886	566		
1983 046A	COSMOS 1463	14075	USSR	19 MAY	102.5	82.9	1461	297		
1983 046B		14076	USSR	19 MAY	101.3	82.9	1351	292		
1983 047A	INTELSAT 5 F-5	14077	ITSO	19 MAY	1436.1	0.0	35802	35773		
1983 047B		14081	US	19 MAY	431.1	23.1	24878	170		
1983 048A	COSMOS 1464	14084	USSR	24 MAY	ELEMENTS NOT AVAILABLE					
1983 048B		14085	USSR	24 MAY	ELEMENTS NOT AVAILABLE					
1983 049A	COSMOS 1465	14087	USSR	26 MAY	89.8	50.6	283	249		
1983 049B		14088	USSR	26 MAY	89.3	50.7	253	227		
1983 049J		14214	USSR	26 MAY	92.1	50.7	439	314		
1983 051A	EXOSAT	14095	ESA	26 MAY	5438.9	71.3	187645	4498		
1983 051B		14096	US	26 MAY	119.1	72.3	2527	753		
1983 051C		14525	ESA	26 MAY	97.1	72.5	931	306		
1983 051D		14526	ESA	26 MAY	101.4	72.5	1326	319		
1983 051E		14927	ESA	26 MAY	101.4	72.5	1330	322		
1983 053A	VENERA 15	14104	USSR	2 JUN	HELIOCENTRIC ORBIT					
1983 054A	VENERA 16	14107	USSR	7 JUN	HELIOCENTRIC ORBIT					
1983 056A		14112	US	9 JUN	ELEMENTS NOT AVAILABLE					
1983 056B		14113	US	9 JUN	ELEMENTS NOT AVAILABLE					
1983 056C		14143	US	9 JUN	ELEMENTS NOT AVAILABLE					
1983 056D		14144	US	9 JUN	ELEMENTS NOT AVAILABLE					
1983 056E		14145	US	9 JUN	ELEMENTS NOT AVAILABLE					
1983 056F		14146	US	9 JUN	ELEMENTS NOT AVAILABLE					
1983 056G		14180	US	9 JUN	ELEMENTS NOT AVAILABLE					
1983 056H		14181	US	9 JUN	ELEMENTS NOT AVAILABLE					
1983 058A	ECS 1	14128	ESA	16 JUN	1436.1	0.0	35799	35777		
1983 058B	OSCAR 10	14129	FRG	16 JUN	699.6	25.9	35431	4023		
1983 058C		14130	ESA	16 JUN	581.2	9.1	33175	209		
1983 058D		14151	ESA	16 JUN	477.4	8.6	27441	270		
1983 059B	ANIK C2	14133	CANADA	18 JUN	1436.1	0.0	35796	35779		35*
1983 059C	PALAPA B1	14134	INDNSA	18 JUN	1436.1	0.0	35794	35780		35*
1983 059D		14135	US	18 JUN	636.0	23.5	35924	316		
1983 059E		14136	US	18 JUN	662.1	25.6	37246	324		
1983 060A		14137	US	20 JUN	88.4	96.4	220	165		
1983 060C		14139	US	20 JUN	ELEMENTS NOT AVAILABLE					
1983 061A	COSMOS 1470	14147	USSR	22 JUN	97.7	82.5	663	629		
1983 061B		14148	USSR	22 JUN	97.6	82.5	663	627		
1983 063A		14154	US	27 JUN	100.9	82.0	835	765		
1983 063B		14155	US	27 JUN	100.9	82.0	835	764		
1983 063C		14222	US	27 JUN	100.3	82.4	794	752		
1983 063D		14223	US	27 JUN	101.3	81.7	870	766		
1983 065A	GALAXY 1	14158	US	28 JUN	1436.2	0.0	35793	35787		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1983 LAUNCHES (CONT.)										
1983 065C		14168	US	28 JUN	585.3	23.1	33382	215		
1983 066A	HORIZONT 7	14160	USSR	30 JUN	1436.2	0.1	35827	35748		
1983 066D		14166	USSR	30 JUN	473.1	45.9	27372	98		
1983 066E		14167	USSR	30 JUN	450.7	46.8	25951	239		
1983 066F		15141	USSR	30 JUN	1475.2	0.1	36584	36513		
1983 067A	PROGNOZ 9	14163	USSR	1 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1983 069A	COSMOS 1473	14171	USSR	6 JUL	114.4	74.0	1461	1392		
1983 069B	COSMOS 1474	14172	USSR	6 JUL	114.6	74.0	1461	1410		
1983 069C	COSMOS 1475	14173	USSR	6 JUL	114.8	74.0	1460	1427		
1983 069D	COSMOS 1476	14174	USSR	6 JUL	114.9	74.0	1461	1444		
1983 069E	COSMOS 1477	14175	USSR	6 JUL	115.1	74.0	1463	1459		
1983 069F	COSMOS 1478	14176	USSR	6 JUL	115.3	74.0	1480	1461		
1983 069G	COSMOS 1479	14177	USSR	6 JUL	115.5	74.0	1498	1460		
1983 069H	COSMOS 1480	14178	USSR	6 JUL	115.8	74.0	1518	1460		
1983 069J		14179	USSR	6 JUL	117.4	74.0	1672	1459		
1983 070A	COSMOS 1481	14182	USSR	8 JUL	707.3	63.9	38465	1370		
1983 070D		14191	USSR	8 JUL	707.9	63.9	38382	1485		
1983 070E		14192	USSR	8 JUL	708.9	63.9	38549	1364		
1983 072A		14189	US	14 JUL	718.0	62.8	20461	19903		
1983 072B		14190	US	14 JUL	371.8	63.4	20753	745		
1983 073A	MOLNIYA 1-59	14199	USSR	19 JUL	717.7	63.1	39933	414		
1983 073D		14206	USSR	19 JUL	696.1	63.1	38874	403		
1983 075A	COSMOS 1484	14207	USSR	24 JUL	97.1	97.9	656	587		
1983 075B		14208	USSR	24 JUL	97.4	98.0	664	603		
1983 075C		14209	USSR	24 JUL	97.1	98.0	658	584		
1983 075D		14229	USSR	24 JUL	97.7	97.9	679	615		
1983 075E		14631	USSR	24 JUL	97.1	97.9	643	597		
1983 075F		14928	USSR	24 JUL	97.4	98.0	663	604		
1983 077A	TELSTAR 3A	14234	US	28 JUL	1436.2	0.0	35794	35782		
1983 077C		14236	US	28 JUL	591.1	22.9	33702	200		
1983 078A		14237	US	31 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1983 078B		14238	US	31 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1983 079A	COSMOS 1486	14240	USSR	3 AUG	100.7	74.1	801	781		
1983 079B		14241	USSR	3 AUG	100.6	74.1	799	775		
1983 079C		14344	USSR	3 AUG	101.2	74.1	834	797		
1983 079D		14313	USSR	3 AUG	101.3	74.0	837	804		
1983 081A	CS-2B	14248	JAPAN	5 AUG	1436.1	0.0	35789	35785		
1983 081C		14287	JAPAN	5 AUG	559.5	28.5	32035	193		
1983 084A	COSMOS 1490	14258	USSR	10 AUG	675.7	64.8	19172	19086		
1983 084B	COSMOS 1491	14259	USSR	10 AUG	679.5	64.8	19509	18938		
1983 084C	COSMOS 1492	14260	USSR	10 AUG	676.8	64.8	19161	19152		
1983 084F		14264	USSR	10 AUG	676.3	64.8	19155	19131		
1983 084G		14277	USSR	10 AUG	339.5	52.0	19186	299		
1983 084H		14278	USSR	10 AUG	338.4	52.2	19139	279		
1983 087G		14325	USSR	23 AUG	91.8	72.9	380	340		
1983 088A	RADUGA 13	14307	USSR	25 AUG	1436.1	0.2	35789	35783		
1983 088D		14310	USSR	25 AUG	594.2	46.6	33948	122		
1983 088E		14311	USSR	25 AUG	615.9	47.2	35057	142		
1983 088F		14333	USSR	25 AUG	1475.2	0.1	36609	36488		
1983 089B	INSAT 1B	14318	INDIA	31 AUG	1436.2	0.2	35939	35636		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1983 LAUNCHES (CONT.)										
1983 089C		14524	INDIA	31 AUG	648.0	24.3	36569	286		
1983 090A	MOLNIYA 3-21	14313	USSR	30 AUG	717.8	63.0	39209	1144		
1983 090D		14319	USSR	30 AUG	731.3	63.0	39851	1167		
1983 091A	COSMOS 1494	14316	USSR	31 AUG	91.8	50.7	413	309		
1983 091B		14317	USSR	31 AUG	91.2	50.7	378	291		
1983 091C	091AC		USSR	31 AUG	SEE NOTE		33*			33*
1983 094A	RCA SATCOM VII	14328	US	8 SEP	1436.2	0.0	35797	35779		
1983 094B		14329	US	8 SEP	128.6	25.5	3832	294		
1983 096E		14375	USSR	14 SEP	89.5	82.3	258	237		
1983 098A	GALAXY 2	14365	US	22 SEP	1436.2	0.0	35792	35789		
1983 098C		14369	US	22 SEP	381.9	23.7	21937	181		
1983 099A	COSMOS 1500	14372	USSR	28 SEP	97.6	82.5	661	629		
1983 099B		14373	USSR	28 SEP	97.6	82.6	660	629		
1983 100A	EKRAN 11	14377	USSR	30 SEP	1436.1	0.2	35795	35778		
1983 100D		14389	USSR	30 SEP	495.8	46.7	28622	120		
1983 100E		14390	USSR	30 SEP	269.1	45.7	14052	803		
1983 100F		14394	USSR	30 SEP	1425.0	0.7	35640	35498		
1983 101A	COSMOS 1501	14380	USSR	30 SEP	94.1	82.9	494	450		
1983 101B		14381	USSR	30 SEP	93.9	82.9	488	446		
1983 101G		15108	USSR	30 SEP	92.5	83.0	406	389		
1983 101H		15110	USSR	30 SEP	92.1	82.9	383	374		
1983 101J		15203	USSR	30 SEP	93.8	82.9	480	436		
1983 101K		15204	USSR	30 SEP	93.8	82.9	480	440		
1983 101L		15277	USSR	30 SEP	93.9	82.9	482	443		
1983 101M		15278	USSR	30 SEP	93.8	82.9	480	443		
1983 101N		15374	USSR	30 SEP	93.7	82.9	470	440		
1983 101P		15375	USSR	30 SEP	93.6	82.9	468	431		
1983 101Q		15425	USSR	30 SEP	94.0	82.9	491	451		
1983 101R		15426	USSR	30 SEP	94.0	82.9	491	448		
1983 102A	COSMOS 1502	14395	USSR	5 OCT	90.9	65.8	327	314		
1983 103A	COSMOS 1503	14401	USSR	12 OCT	100.8	74.0	806	786		
1983 103B		14402	USSR	12 OCT	100.7	74.1	808	773		
1983 105A	INTELSAT 5 F-7	14421	ITSO	19 OCT	1436.2	0.0	35800	35778		
1983 105B		14423	ESA	19 OCT	338.7	8.4	19225	207		
1983 107G		14674	USSR	21 OCT	89.1	72.8	252	209		
1983 108A	COSMOS 1506	14450	USSR	26 OCT	104.7	82.9	1011	947		
1983 108B		14451	USSR	26 OCT	104.6	82.9	1002	946		
1983 109A	METEOR 2-10	14452	USSR	28 OCT	101.2	81.2	886	747		
1983 109B		14453	USSR	28 OCT	101.3	81.2	898	738		
1983 109C		14454	USSR	28 OCT	101.2	81.2	886	742		
1983 110A	COSMOS 1507	14455	USSR	29 OCT	93.3	65.1	452	415		
1983 111A	COSMOS 1508	14483	USSR	11 NOV	108.8	82.9	1950	394		
1983 111B		14484	USSR	11 NOV	108.6	82.9	1939	379		
1983 113A		14506	US	18 NOV	101.3	98.7	828	810		
1983 113B		14553	US	18 NOV	101.2	98.7	819	810		
1983 113C		14554	US	18 NOV	101.2	98.7	820	811		
1983 113D		14609	US	18 NOV	101.2	98.7	824	807		
1983 113E		14610	US	18 NOV	101.2	98.7	825	808		
1983 114A	MOLNIYA 1-59	14516	USSR	23 NOV	717.8	62.9	39324	1031		
1983 114D		14520	USSR	23 NOV	699.3	62.9	38434	1001		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1983 LAUNCHES (CONT.)										
1983 115A	COSMOS 1510	14521	USSR	24 NOV	116.0	73.6	1521	1479		
1983 115B		14522	USSR	24 NOV	115.9	73.6	1518	1478		
1983 118A	HORIZONT 8	14532	USSR	30 NOV	1436.1	0.5	35793	35780		
1983 118D		14537	USSR	30 NOV	585.5	46.3	33484	127		
1983 118E		14538	USSR	30 NOV	593.1	46.6	33880	131		
1983 118F		14540	USSR	30 NOV	1436.0	0.6	35950	35617		
1983 119G		14575	USSR	7 DEC	90.6	72.8	315	290		
1983 120A	COSMOS 1513	14546	USSR	8 DEC	104.8	82.9	1013	958		
1983 120B		14547	USSR	8 DEC	104.6	82.9	1011	942		
1983 122A	COSMOS 1515	14551	USSR	15 DEC	97.6	82.5	661	630		
1983 122B		14552	USSR	15 DEC	97.6	82.5	660	630		
1983 123A	MOLNIYA 3-22	14570	USSR	21 DEC	717.7	63.5	39884	464		
1983 123D		14582	USSR	21 DEC	732.6	63.5	40624	457		
1983 126A	COSMOS 1518	14587	USSR	28 DEC	714.1	64.4	39268	907		
1983 126D		14596	USSR	28 DEC	705.4	64.5	38834	907		
1983 127A	COSMOS 1519	14590	USSR	29 DEC	675.7	64.9	19156	19102		
1983 127B	COSMOS 1520	14591	USSR	29 DEC	675.7	64.9	19177	19081		
1983 127C	COSMOS 1521	14592	USSR	29 DEC	673.4	64.9	19141	19000		
1983 127F		14595	USSR	29 DEC	673.1	64.9	19135	18990		
1983 127G		14607	USSR	29 DEC	338.8	52.1	19027	411		
1983 127H		14608	USSR	29 DEC	339.2	52.0	19030	435		
1984 LAUNCHES										
1984 001A	COSMOS 1522	14611	USSR	5 JAN	115.4	74.0	1490	1460		
1984 001B	COSMOS 1522	14612	USSR	5 JAN	114.4	74.0	1460	1393		
1984 001C	COSMOS 1524	14613	USSR	5 JAN	114.6	74.0	1461	1409		
1984 001D	COSMOS 1525	14614	USSR	5 JAN	114.7	74.0	1460	1425		
1984 001E	COSMOS 1526	14615	USSR	5 JAN	114.9	74.0	1461	1440		
1984 001F	COSMOS 1527	14616	USSR	5 JAN	115.1	74.0	1461	1456		
1984 001G	COSMOS 1528	14617	USSR	5 JAN	115.3	74.0	1474	1460		
1984 001H	COSMOS 1529	14618	USSR	5 JAN	115.6	74.0	1508	1461		
1984 001J		14619	USSR	5 JAN	117.5	74.0	1679	1461		
1984 002G		14929	USSR	11 JAN	90.9	72.8	331	301		
1984 003A	COSMOS 1531	14624	USSR	11 JAN	105.0	82.9	1007	978		
1984 003B		14625	USSR	11 JAN	104.8	82.9	1002	970		
1984 005A	BS-2A	14659	JAPAN	23 JAN	1436.3	0.0	35801	35777		
1984 005C		14665	JAPAN	23 JAN	590.7	28.1	33605	279		
1984 006D		14713	USSR	26 JAN	90.8	70.4	329	297		
1984 007A	COSMOS 1534	14668	USSR	26 JAN	94.3	65.8	506	465		
1984 007B		14669	USSR	26 JAN	94.1	65.8	502	450		
1984 008A	PRC 14	14670	PRC	29 JAN	163.4	36.2	6586	460		
1984 009A		14675	US	31 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1984 009C		14677	US	31 JAN	ELEMENTS NOT AVAILABLE					
1984 010A	COSMOS 1535	14679	USSR	2 FEB	104.8	83.0	1015	951		
1984 010B		14680	USSR	2 FEB	104.7	83.0	1006	951		
1984 011E		14693	INDNSA	6 FEB	99.3	28.2	1166	279		
1984 011F		14694	US	3 FEB	100.0	27.7	1206	307		
1984 011U		14824	INDNSA	6 FEB	98.9	27.4	1107	304		
1984 011V		14970	US	3 FEB	95.0	27.9	732	301		

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1984 LAUNCHES (CONT.)										
1984 012A		14690	US	5 FEB	ELEMENTS NOT AVAILABLE					
1984 012B		14691	US	5 FEB	ELEMENTS NOT AVAILABLE					
1984 012C		14728	US	5 FEB	ELEMENTS NOT AVAILABLE					
1984 012D		14729	US	5 FEB	ELEMENTS NOT AVAILABLE					
1984 012F		14795	US	5 FEB	ELEMENTS NOT AVAILABLE					
1984 012J		15347	US	5 FEB	ELEMENTS NOT AVAILABLE					
1984 012K		15348	US	5 FEB	ELEMENTS NOT AVAILABLE					
1984 012L		15349	US	5 FEB	ELEMENTS NOT AVAILABLE					
1984 013A	COSMOS 1536	14699	USSR	8 FEB	97.6	82.5	661	630		
1984 013B		14700	USSR	8 FEB	97.6	82.5	661	628		
1984 015A	OHZORA	14722	JAPAN	14 FEB	95.9	74.6	776	346		
1984 015B		14723	JAPAN	14 FEB	96.4	74.6	822	350		
1984 015C		14724	JAPAN	14 FEB	96.3	74.6	808	349		
1984 016A	RADUGA 14	14725	USSR	15 FEB	1436.0	0.5	35786	35784		
1984 016D		14742	USSR	15 FEB	614.3	46.7	34967	151		
1984 016E		14743	USSR	15 FEB	635.6	46.8	36046	172		
1984 019A	COSMOS 1538	14759	USSR	21 FEB	100.7	74.0	807	775		
1984 019B		14760	USSR	21 FEB	100.6	74.0	810	767		
1984 021A	LANDSAT 5	14780	US	1 MAR	98.8	98.2	700	699	2287.500, 2265.500	
1984 021B	UOSAT 2	14781	UK	1 MAR	98.4	98.2	694	673		
1984 021C		14782	US	1 MAR	96.3	100.1	683	483		
1984 022A	COSMOS 1540	14783	USSR	2 MAR	1435.9	1.1	35816	35750		
1984 022D		14788	USSR	2 MAR	619.6	47.2	35253	141		
1984 022E		14789	USSR	2 MAR	635.7	47.4	35994	232		
1984 022F		14948	USSR	2 MAR	1441.9	1.1	36122	35678		
1984 023A	INTELSAT 5 F-8	14786	ITSO	5 MAR	1436.1	0.0	35796	35777		
1984 023B		14787	ESA	5 MAR	554.3	11.0	31648	298		
1984 024A	COSMOS 1541	14790	USSR	6 MAR	717.8	63.4	39570	784		
1984 024D		14796	USSR	6 MAR	709.7	63.3	39127	826		
1984 025D		14848	USSR	7 MAR	91.2	70.3	350	315		
1984 027A	COSMOS 1544	14819	USSR	15 MAR	97.6	82.5	662	628		
1984 027B		14820	USSR	15 MAR	97.6	82.5	661	627		
1984 028A	EKRAN 12	14821	USSR	16 MAR	1436.6	0.7	35818	35776		
1984 028D		14828	USSR	16 MAR	628.0	46.9	35483	345		
1984 028E		14829	USSR	16 MAR	625.0	46.9	35381	289		
1984 028F		15139	USSR	16 MAR	1419.8	0.8	35550	35382		
1984 029A	MOLNIYA 1-60	14825	USSR	16 MAR	717.6	63.4	39855	491		
1984 029D		14830	USSR	16 MAR	731.0	63.4	40528	476		
1984 031A	COSMOS 1546	14867	USSR	29 MAR	1436.2	0.6	35793	35783		
1984 031D		14887	USSR	29 MAR	566.9	45.3	32280	345		
1984 031E		14888	USSR	29 MAR	618.1	45.3	35141	173		
1984 031F		14951	USSR	29 MAR	1448.3	0.6	36092	35957		
1984 032C		15345	USSR	3 APR	91.8	51.6	367	360		
1984 033A	COSMOS 1547	14884	USSR	4 APR	717.9	63.0	39323	1034		
1984 033D		14894	USSR	4 APR	706.6	63.2	38787	1012		
1984 034B	LDEF	14898	US	6 APR	94.2	28.5	480	477		35*
1984 034L		14936	USSR	19 APR	90.7	73.9	316	305		
1984 034M		14937	USSR	19 APR	91.7	74.1	370	349		
1984 035A	PRC 15	14899	PRC	8 APR	1436.2	1.1	35793	35784		

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1984 LAUNCHES (CONT.)										
1984 035B		14900	PRC	8 APR	630.1	30.7	35450	487		
1984 037A		14930	US	14 APR	ELEMENTS NOT AVAILABLE					
1984 037B		14931	US	14 APR	ELEMENTS NOT AVAILABLE					
1984 040D		14953	USSR	22 APR	91.7	72.9	376	338		
1984 041A	HORIZONT 9	14940	USSR	22 APR	1436.3	0.8	35910	35668		
1984 041D		14943	USSR	22 APR	1460.1	0.8	36329	36180		
1984 041E		14944	USSR	22 APR	561.4	46.6	32209	117		
1984 041F		14945	USSR	22 APR	606.1	46.8	34546	145		
1984 043A	COSMOS 1550	14965	USSR	11 MAY	104.9	83.0	1010	971		
1984 043B		14966	USSR	11 MAY	104.8	83.0	997	974		
1984 046A	COSMOS 1553	14973	USSR	17 MAY	104.7	82.9	1007	958		
1984 046B		14974	USSR	17 MAY	104.6	82.9	998	955		
1984 047A	COSMOS 1554	14977	USSR	19 MAY	675.7	64.9	19173	19085		
1984 047B	COSMOS 1555	14978	USSR	19 MAY	675.7	64.9	19149	19109		
1984 047C	COSMOS 1556	14979	USSR	19 MAY	676.3	64.9	19157	19131		
1984 047F		14984	USSR	19 MAY	675.5	64.9	19178	19070		
1984 047G		15053	USSR	19 MAY	340.3	52.1	19134	398		
1984 047H		15054	USSR	19 MAY	340.6	52.0	19136	420		
1984 049A	SPACENET 1	14985	US	23 MAY	1436.1	0.0	35790	35784		
1984 049B		14989	ESA	23 MAY	418.1	7.0	24082	203		
1984 052A	COSMOS 1559	14998	USSR	28 MAY	115.7	74.0	1509	1467		
1984 052B	COSMOS 1560	14999	USSR	28 MAY	115.5	74.0	1491	1468		
1984 052C	COSMOS 1561	15000	USSR	28 MAY	115.4	74.0	1484	1459		
1984 052D	COSMOS 1562	15001	USSR	28 MAY	115.2	74.0	1475	1451		
1984 052E	COSMOS 1563	15002	USSR	23 MAY	115.0	74.0	1475	1435		
1984 052F	COSMOS 1564	15003	USSR	28 MAY	114.8	74.0	1473	1422		
1984 052G	COSMOS 1565	15004	USSR	28 MAY	114.7	74.0	1475	1406		
1984 052H	COSMOS 1566	15005	USSR	28 MAY	114.5	74.0	1472	1392		
1984 052J		15006	USSR	28 MAY	117.7	74.0	1678	1472		
1984 053A	COSMOS 1567	15009	USSR	30 MAY	93.3	65.0	441	426		
1984 054G		15043	USSR	1 JUN	91.8	72.8	387	341		
1984 055A	COSMOS 1569	15027	USSR	6 JUN	717.7	63.7	39589	759		
1984 055D		15030	USSR	6 JUN	706.9	63.8	39063	753		
1984 056A	COSMOS 1570	15031	USSR	8 JUN	100.8	74.1	807	787		
1984 056B		15032	USSR	8 JUN	100.7	74.1	807	776		
1984 056C		15033	USSR	8 JUN	101.3	74.1	833	806		
1984 058F		15067	USSR	11 JUN	91.7	70.0	386	330		
1984 059A		15039	US	13 JUN	718.0	62.6	20333	20029		
1984 059B		15040	US	13 JUN	367.6	62.5	20599	641		
1984 062A	COSMOS 1574	15055	USSR	21 JUN	104.8	83.0	1006	964		
1984 062B		15056	USSR	21 JUN	104.7	83.0	998	961		
1984 063A	RADUGA 15	15057	USSR	22 JUN	1436.2	0.8	35803	35772		
1984 063B		15058	USSR	22 JUN	ELEMENTS NOT AVAILABLE					
1984 063D		15075	USSR	22 JUN	572.0	46.7	32760	133		
1984 063E		15076	USSR	22 JUN	612.3	46.6	34836	178		
1984 065C		15071	US	25 JUN	ELEMENTS NOT AVAILABLE					
1984 067A	COSMOS 1577	15077	USSR	27 JUN	104.7	83.0	1009	954		
1984 067B		15078	USSR	27 JUN	104.6	83.0	998	954		
1984 068A	COSMOS 1578	15080	USSR	28 JUN	104.3	50.7	1622	296		
1984 068B		15081	USSR	28 JUN	104.0	50.7	1598	293		

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1984 LAUNCHES (CONT.)										
1984 069A	COSMOS 1579	15085	USSR	29 JUN	103.9	65.1	981	905		
1984 069D		15330	USSR	29 JUN	103.6	65.1	952	904		
1984 071A	COSMOS 1581	15095	USSR	3 JUL	718.0	62.9	39419	947		
1984 071D		15098	USSR	3 JUL	705.7	63.1	38820	934		
1984 072A	METEOR 2-11	15099	USSR	5 JUL	104.0	82.5	958	938		
1984 072B		15100	USSR	5 JUL	104.0	82.5	956	938		
1984 073C		15136	USSR	17 JUL	91.2	51.6	341	321		
1984 075E		15169	USSR	24 JUL	92.0	72.9	414	333		
1984 075G		15173	USSR	24 JUL	92.0	72.9	397	344		
1984 078A	HORIZONT 10	15144	USSR	1 AUG	1436.1	1.1	35812	35760		
1984 078D		15160	USSR	1 AUG	633.1	46.8	35881	209		
1984 078E		15161	USSR	1 AUG	620.4	46.8	35284	152		
1984 078F		15181	USSR	1 AUG	1437.8	1.1	35893	35745		
1984 079A	COSMOS 1586	15147	USSR	2 AUG	718.0	63.4	39659	704		
1984 079D		15156	USSR	2 AUG	705.7	63.4	39060	697		
1984 080A	GMS 3	15152	JAPAN	2 AUG	1436.3	1.5	35796	35783		
1984 080C		15157	JAPAN	2 AUG	628.6	28.9	35677	182		
1984 081A	ECS 2	15158	ESA	4 AUG	1436.2	0.2	36826	34749		
1984 081B	TELECOM 1A	15159	FRANCE	4 AUG	1436.1	0.0	35792	35782		
1984 081C		15165	ESA	4 AUG	594.1	6.7	33824	241		
1984 081D		15166	ESA	4 AUG	600.4	6.9	33731	660		
1984 082F		15241	USSR	6 AUG	90.3	72.9	302	278		
1984 082G		15242	USSR	6 AUG	92.0	72.9	399	345		
1984 082H		15243	USSR	6 AUG	92.7	72.9	459	354		
1984 083A	COSMOS 1588	15167	USSR	7 AUG	93.3	65.0	441	427		
1984 084A	COSMOS 1589	15171	USSR	8 AUG	115.9	82.6	1499	1491		
1984 084B		15172	USSR	8 AUG	115.8	82.6	1498	1487		
1984 085A	MOLNIYA 1-61	15182	USSR	10 AUG	717.7	62.9	39700	651		
1984 085D		15188	USSR	10 AUG	731.0	62.8	40345	659		
1984 088A	CCE	15199	US	16 AUG	939.5	5.1	49663	1130	2271.000, 2091.200	4*
1984 088B	IRM	15200	FRG	16 AUG	2655.7	28.7	113741	553		
1984 088C	UKS	15201	UK	16 AUG	2655.7	28.7	113741	553		
1984 088D		15202	US	16 AUG	134.3	28.9	4070	549		
1984 088E		15205	US	16 AUG	133.7	28.7	4014	554		
1984 088F		15206	US	16 AUG	926.1	28.3	49609	578		
1984 089A	MOLNIYA 1-62	15214	USSR	24 AUG	717.7	63.0	39927	421		
1984 089D		15223	USSR	24 AUG	739.0	63.0	40974	422		
1984 090A	EKRAN 13	15219	USSR	24 AUG	1436.0	0.7	35804	35767		
1984 090D		15224	USSR	24 AUG	625.1	47.0	35499	176		
1984 090E		15225	USSR	24 AUG	626.9	47.0	35559	211		
1984 091A		15226	US	28 AUG	ELEMENTS NOT AVAILABLE					
1984 091B		15227	US	28 AUG	ELEMENTS NOT AVAILABLE					
1984 093B	SBS 4	15235	US	31 AUG	1436.1	0.3	35796	35777		35*
1984 093C	SYNCOM IV-2	15236	US	31 AUG	1436.1	3.2	35798	35776		35*
1984 093D	TELSTAR 3C	15237	US	1 SEP	1436.1	0.0	35790	35785		35*
1984 093E		15244	US	31 AUG	278.6	27.2	15195	305		
1984 093F		15245	US	31 AUG	629.8	22.8	35570	349		
1984 093G		15246	US	1 SEP	669.4	24.9	37570	372		
1984 095A	COSMOS 1593	15259	USSR	4 SEP	675.7	64.8	19165	19093		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1984 LAUNCHES (CONT.)										
1984 095B		15260	USSR	4 SEP	677.2	64.7	19193	19139		
1984 095C		15261	USSR	4 SEP	675.7	64.7	19172	19086		
1984 095F		15264	USSR	4 SEP	675.9	64.7	19184	19083		
1984 095G		15265	USSR	4 SEP	340.2	52.1	19183	344		
1984 095H		15266	USSR	4 SEP	340.5	51.9	19184	366		
1984 096A	COSMOS 1596	15267	USSR	7 SEP	717.6	62.9	39557	789		
1984 096D		15270	USSR	7 SEP	703.1	63.0	38844	786		
1984 097A		15271	US	8 SEP	718.0	63.3	20410	19954		
1984 097B		15272	US	8 SEP	369.2	63.3	20773	565		
1984 100A	COSMOS 1598	15292	USSR	13 SEP	104.9	82.9	1014	965		
1984 100B		15293	USSR	13 SEP	104.8	82.9	1001	967		
1984 101A	GALAXY 3	15308	US	21 SEP	1436.2	0.0	35795	35783		
1984 101C		15310	US	21 SEP	647.1	23.2	36605	201		
1984 103C		15356	USSR	27 SEP	92.0	70.0	400	343		
1984 103D		15357	USSR	27 SEP	91.2	70.0	359	311		
1984 103E		15358	USSR	27 SEP	93.3	70.0	511	364		
1984 103G		15364	USSR	27 SEP	90.0	70.0	286	265		
1984 104A	COSMOS 1601	15326	USSR	27 SEP	94.4	65.8	518	465		
1984 104B		15329	USSR	27 SEP	94.4	65.8	519	456		
1984 105A	COSMOS 1602	15331	USSR	28 SEP	97.7	82.5	664	629		
1984 105B		15332	USSR	28 SEP	97.6	82.5	664	627		
1984 106A	COSMOS 1603	15333	USSR	28 SEP	101.9	71.0	853	848		
1984 106B		15334	USSR	28 SEP	101.9	71.0	852	848		
1984 106C		15335	USSR	28 SEP	101.6	66.6	848	816		
1984 106F		15338	USSR	28 SEP	101.8	66.6	848	837		
1984 107A	COSMOS 1604	15350	USSR	4 OCT	718.0	62.9	39677	689		
1984 107D		15355	USSR	4 OCT	708.1	62.9	39198	679		
1984 108B	ERBS	15354	US	5 OCT	96.8	57.0	608	598	2287.500, 2106.400	4*
1984 109A	COSMOS 1605	15359	USSR	11 OCT	104.7	82.9	1018	946		
1984 109B		15360	USSR	11 OCT	104.7	82.9	1007	949		
1984 110A		15362	US	12 OCT	108.9	90.1	1198	1152		
1984 110B		15363	US	12 OCT	98.3	89.8	1033	319		
1984 110C		15371	US	12 OCT	97.9	90.2	1001	318		
1984 110D		15372	US	12 OCT	98.0	89.4	1003	318		
1984 111A	COSMOS 1606	15369	USSR	18 OCT	97.6	82.5	663	626		
1984 111B		15370	USSR	18 OCT	97.6	82.5	662	625		
1984 112A	COSMOS 1607	15378	USSR	31 OCT	89.6	65.0	261	249		
1984 113B	ANIK D2	15383	CANADA	9 NOV	1436.0	1.8	35800	35772		35*
1984 113C	SYNCOM IV-1	15384	US	10 NOV	1436.2	3.4	35847	35727		35*
1984 113D		15387	CANADA	9 NOV	637.6	25.9	35983	336		
1984 113E		15390	US	10 NOV	278.9	27.1	15209	315		
1984 114A	SPACENET 2	15385	US	10 NOV	1436.1	0.0	35789	35784		
1984 114B	MARECS B2	15386	ESA	10 NOV	1436.2	3.0	35802	35779		
1984 114C		15388	ESA	10 NOV	637.5	6.9	35999	318		
1984 114D		15389	ESA	10 NOV	625.1	6.9	35449	228		
1984 115A		15391	NATO	14 NOV	1426.2	5.9	35612	35571		
1984 115B		15392	US	14 NOV	116.0	21.5	2321	675		
1984 115C		15402	US	14 NOV	649.4	22.8	36506	418		
1984 117D		15408	USSR	14 NOV	93.9	72.8	552	379		

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1984 LAUNCHES (CONT.)										
1984 117E		15409	USSR	14 NOV	92.2	72.8	407	352		
1984 117F		15410	USSR	14 NOV	91.8	72.8	392	334		
1984 117H		15412	USSR	14 NOV	91.9	72.9	389	342		
1984 117J		15413	USSR	14 NOV	93.8	72.9	546	376		
1984 117K		15418	USSR	14 NOV	90.0	72.6	289	256		
1984 117L		15419	USSR	14 NOV	93.0	72.0	467	379		
1984 118A	COSMOS 1610	15398	USSR	15 NOV	104.9	82.9	1011	963		
1984 118B		15399	USSR	15 NOV	104.7	82.9	1004	958		
1984 119A	COSMOS 1611	15403	USSR	21 NOV	89.2	64.7	299	173		
1984 120A	COSMOS 1612	15406	USSR	27 NOV	94.0	82.6	808	132		
1984 121E		15456	USSR	29 NOV	92.2	72.8	411	353		
1984 121F		15457	USSR	29 NOV	92.2	72.8	410	351		
1984 121G		15458	USSR	29 NOV	92.0	72.8	407	341		
1984 121H		15459	USSR	29 NOV	94.2	72.8	574	386		
1984 121J		15460	USSR	29 NOV	94.4	72.8	588	389		
1984 121K		15461	USSR	29 NOV	92.7	72.8	466	351		
1984 121L		15462	USSR	29 NOV	91.5	73.1	397	293		
1984 121M		15463	USSR	29 NOV	92.0	72.6	396	352		
1984 122A		15423	US	4 DEC	ELEMENTS NOT AVAILABLE					
1984 123A	NOAA 9	15427	US	12 DEC	102.0	98.9	862	841	136.770,137.770, 1702.500	4*
1984 123B		15440	US	12 DEC	101.9	98.9	854	844		
1984 123C		15441	US	12 DEC	102.0	98.9	856	846		
1984 124A	MOLNIYA 1-63	15429	USSR	14 DEC	717.7	62.8	39888	461		
1984 124B		15430	USSR	14 DEC	89.6	62.8	312	200		
1984 124C		15431	USSR	14 DEC	90.3	62.8	374	201		
1984 124D		15435	USSR	14 DEC	90.5	62.8	387	215		
1984 124E		15436	USSR	14 DEC	90.2	62.8	359	204		
1984 124F		15437	USSR	14 DEC	90.0	62.8	344	201		
1984 124H		15439	USSR	14 DEC	733.4	62.9	40662	459		
1984 125A	VEGA 1	15432	USSR	15 DEC	HELIOCENTRIC ORBIT					
1984 125D		15447	USSR	14 DEC	HELIOCENTRIC ORBIT					
1984 127A	COSMOS 1615	15446	USSR	20 DEC	94.0	65.8	498	438		
1984 127B		15448	USSR	20 DEC	93.9	65.8	498	431		
1984 128A	VEGA 2	15449	USSR	21 DEC	HELIOCENTRIC ORBIT					
1984 128B		15450	USSR	21 DEC	HELIOCENTRIC ORBIT					
1984 129A		15453	US	22 DEC	ELEMENTS NOT AVAILABLE					
1984 129B		15454	US	22 DEC	ELEMENTS NOT AVAILABLE					
1984 129C		15455	US	22 DEC	ELEMENTS NOT AVAILABLE					

FOOTNOTES

1* 268 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1961 OMICRON 1 AND 1961 OMICRON 2. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

2* 102 BJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1963 014A, 1963 014B, AND 1963 014C. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

3* 17 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1963 047A. THE OBJECT OF THIS SERIES THAT HAS DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

4* TRANSMITTING ON COMMAND ONLY.

5* 469 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 082A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

6* DEBRIS DISCOVERED IN ORBIT WHICH HAS NOT BEEN IDENTIFIED WITH ANY LAUNCH OR COUNTRY OF ORIGIN.

7* 92 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1968 091A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

8* 123 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1968 097A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

9* A MANNED SPACECRAFT WHICH SUCCESSFULLY LANDED ON THE MOON AND RETURNED TO SELENOCENTRIC ORBIT.

10* 251 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1969 082A, 1969 082B, 1969 082C, 1969 082D, 1969 082E, 1969 082F, 1969 082G, 1969 082H, 1969 082J, AND 1969 082K. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

11* 334 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1970 025A AND 1970 025B. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

12* 96 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1970 089A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

13* 42 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1970 091A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

14* DEBRIS DISCOVERED IN ORBIT WHICH HAS NOT BEEN IDENTIFIED WITH ANY LAUNCH.

15* 91 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1971 015A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

FOOTNOTES (CONT)

16* 225 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1972 058A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

17* 184 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 086A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

18* 140 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1974 089A, 1974 089B, AND 1974 089C. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

19* 199 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975 004A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

20* 55 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 067A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

21* 138 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 077A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

22* 14 OBJECT HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 105A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

23* 51 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 120A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

24* 65 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 126A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

25* 161 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977 065A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

26* 59 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977 121A. THE OBJECT OF THIS SERIES THAT HAS DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

27* 183 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1978 026A AND 1978 026B. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

28* 44 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1980 030A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

FOOTNOTES (CONT)

29* 68 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1980 089A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMATY SATELLITE SITUATION REPORT.

30* 67 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1981 028A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

31* 242 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1981 053A OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

32* 31 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982 115A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

33* 27 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1983 091A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

34* 129 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982 033A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

35* DEPLOYED FROM SPACE TRANSPORTATION VEHICLE.

NNN NO NATIONAL NAME.

INITIAL ELEMENTS OF OBJECTS WHICH WERE LAUNCHED/CATALOGED AND DECAYED WITHIN THE REPORTING PERIOD

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLIN-NATION	APOGEE KM.	PERIGEE KM.	NOTES
1982 033EE		15365	USSR	19 APR	92.6	51.7	450	357	
1984 032D		15346	USSR	3 APR	92.0	51.6	372	367	
1984 103E		15361	USSR	27 SEP	94.7	70.0	632	375	
1984 107B		15351	USSR	4 OCT	92.4	62.9	565	213	
1984 115A	COSMOS 1608	15393	USSR	14 NOV	88.9	70.0	248	195	
1984 117C		15400	USSR	14 NOV	INITIAL ELEMENTS NOT AVAILABLE				
1984 117G		15411	USSR	14 NOV	INITIAL ELEMENTS NOT AVAILABLE				
1984 117M		15421	USSR	14 NOV	91.6	72.8	447	257	
1984 117N		15428	USSR	14 NOV	90.9	72.7	330	305	
1984 120B		15407	USSR	27 NOV	97.2	82.6	1135	115	
1984 121A	COSMOS 1613	15414	USSR	29 NOV	89.9	72.8	345	193	
1984 121B		15415	USSR	29 NOV	89.4	72.8	301	185	
1984 121C		15416	USSR	29 NOV	88.7	72.8	254	163	
1984 121D		15417	USSR	29 NOV	INITIAL ELEMENTS NOT AVAILABLE				
1984 124G		15438	USSR	14 DEC	90.3	62.8	376	198	
1984 125B		15433	USSR	15 DEC	INITIAL ELEMENTS NOT AVAILABLE				
1984 125C		15434	USSR	15 DEC	INITIAL ELEMENTS NOT AVAILABLE				
1984 126A	COSMOS 1614	15442	USSR	19 DEC	INITIAL ELEMENTS NOT AVAILABLE				
1984 126B		15443	USSR	19 DEC	INITIAL ELEMENTS NOT AVAILABLE				
1984 126C		15444	USSR	19 DEC	INITIAL ELEMENTS NOT AVAILABLE				
1984 126D		15445	USSR	19 DEC	INITIAL ELEMENTS NOT AVAILABLE				
1984 128C		15451	USSR	21 DEC	INITIAL ELEMENTS NOT AVAILABLE				
1984 128D		15452	USSR	21 DEC	INITIAL ELEMENTS NOT AVAILABLE				

OBJECTS DECAYED WITHIN THE REPORTING PERIOD

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
OMICRON 14		421	US	29 JUN	2 OCT 84	
1970 025MA		5695	US	8 APR	13 DEC 84	
1973 106A	MOLNIYA 2-8	7000	USSR	25 DEC	24 NOV 84	
1976 120B		9604	USSR	9 DEC	21 DEC 84	
1977 011A	COSMOS 893	9833	USSR	15 FEB	6 OCT 84	
1979 105D		11661	USSR	28 DEC	3 DEC 84	
1980 089BF		14348	USSR	4 NOV	24 OCT 84	
1981 028V		13197	USSR	20 MAR	11 DEC 84	
1981 028BH		13691	USSR	20 MAR	4 OCT 84	
1981 085A		12799	US	3 SEP	23 NOV 84	
1982 009E		13060	USSR	5 FEB	26 NOV 84	
1982 033BJ		15127	USSR	19 APR	13 OCT 84	
1982 033BW		15129	USSR	19 APR	9 OCT 84	
1982 033CB		15137	USSR	19 APR	8 OCT 84	
1982 033CF		15176	USSR	19 APR	6 DEC 84	
1982 033CH		15189	USSR	19 APR	13 OCT 84	
1982 033CJ		15190	USSR	19 APR	18 OCT 84	
1982 033CL		15195	USSR	19 APR	12 NOV 84	
1982 033CM		15196	USSR	19 APR	4 OCT 84	
1982 033CN		15207	USSR	19 APR	3 OCT 84	
1982 033CP		15208	USSR	19 APR	5 DEC 84	
1982 033CQ		15209	USSR	19 APR	25 OCT 84	
1982 033CS		15211	USSR	19 APR	6 OCT 84	
1982 033CU		15213	USSR	19 APR	8 OCT 84	
1982 033CY		15248	USSR	19 APR	12 DEC 84	
1982 033CZ		15249	USSR	19 APR	26 DEC 84	
1982 033DA		15250	USSR	19 APR	12 DEC 84	
1982 033DB		15251	USSR	19 APR	16 OCT 84	
1982 033DC		15252	USSR	19 APR	8 DEC 84	
1982 033DE		15254	USSR	19 APR	10 NOV 84	
1982 033DF		15255	USSR	19 APR	1 NOV 84	
1982 033DG		15256	USSR	19 APR	8 DEC 84	
1982 033DH		15273	USSR	19 APR	3 OCT 84	
1982 033DJ		15274	USSR	19 APR	24 DEC 84	
1982 033DK		15275	USSR	19 APR	11 DEC 84	
1982 033DL		15276	USSR	19 APR	29 NOV 84	
1982 033DQ		15284	USSR	19 APR	4 DEC 84	
1982 033DR		15297	USSR	19 APR	4 OCT 84	
1982 033DS		15303	USSR	19 APR	20 OCT 84	
1982 033DV		15306	USSR	19 APR	20 DEC 84	
1982 033DX		15311	USSR	19 APR	13 OCT 84	
1982 033EB		15315	USSR	19 APR	25 NOV 84	
1982 033ED		15317	USSR	19 APR	8 DEC 84	
1982 033EE		15365	USSR	19 APR	5 DEC 84	
1982 115V		13712	USSR	8 DEC	6 DEC 84	
1983 034F		14598	USSR	19 APR	1 DEC 84	
1983 034N		15007	USSR	19 APR	2 NOV 84	
1983 034P		15008	USSR	19 APR	22 NOV 84	
1983 034Q		15013	USSR	19 APR	12 DEC 84	
1983 034R		15014	USSR	19 APR	3 DEC 84	
1983 034S		15015	USSR	19 APR	22 DEC 84	

OBJECTS DECAYED WITHIN THE REPORTING PERIOD

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983 034T		15016	USSR	19 APR	14 NOV 84	
1983 034U		15017	USSR	19 APR	6 NOV 84	
1983 034V		15018	USSR	19 APR	24 OCT 84	
1983 034W		15019	USSR	19 APR	19 OCT 84	
1983 034X		15020	USSR	19 APR	14 OCT 84	
1983 087F		14324	USSR	23 AUG	10 OCT 84	
1983 095D		14368	USSR	9 SEP	8 OCT 84	
1983 097F		14384	USSR	17 SEP	4 NOV 84	
1983 107C		14481	USSR	21 OCT	9 DEC 84	
1984 005B		14660	JAPAN	23 JAN	21 NOV 84	
1984 011B	WESTAR 6	14688	US	3 FEB	16 NOV 84	
1984 011D	PALAPA B2	14692	INDNSA	6 FEB	16 NOV 84	
1984 012E		14761	US	5 FEB	18 OCT 84	
1984 012G		14964	US	5 FEB	18 OCT 84	
1984 012H		14969	US	5 FEB	18 OCT 84	
1984 032A	SOYUZ T-11	14872	USSR	3 APR	2 OCT 84	
1984 032D		15346	USSR	3 APR	5 DEC 84	
1984 040G		14956	USSR	22 APR	13 OCT 84	
1984 045A	COSMOS 1552	14971	USSR	14 MAY	3 NOV 84	
1984 045C		15379	USSR	14 MAY	4 NOV 84	
1984 045D		15380	USSR	14 MAY	5 NOV 84	
1984 045E		15381	USSR	14 MAY	5 NOV 84	
1984 054F		15042	USSR	1 JUN	1 NOV 84	
1984 054K		15048	USSR	1 JUN	4 DEC 84	
1984 057A	INTELSAT V F9	15034	ITSO	9 JUN	24 OCT 84	
1984 058D		15065	USSR	11 JUN	20 OCT 84	
1984 058E		15066	USSR	11 JUN	25 NOV 84	
1984 065A		15063	US	25 JUN	18 OCT 84	
1984 069C		15328	USSR	29 JUN	5 NOV 84	
1984 075F		15170	USSR	24 JUL	19 DEC 84	
1984 075H		15178	USSR	24 JUL	26 OCT 84	
1984 075J		15179	USSR	24 JUL	25 OCT 84	
1984 080B		15153	JAPAN	2 AUG	11 OCT 84	
1984 082C		15238	USSR	6 AUG	18 NOV 84	
1984 082E		15240	USSR	6 AUG	27 DEC 84	
1984 087F		15231	USSR	16 AUG	2 OCT 84	
1984 092D		15290	USSR	30 AUG	14 OCT 84	
1984 094D		15299	USSR	4 SEP	24 OCT 84	
1984 094E		15300	USSR	4 SEP	2 OCT 84	
1984 096B		15268	USSR	7 SEP	25 OCT 84	
1984 096C		15269	USSR	7 SEP	9 OCT 84	
1984 099C		15320	USSR	13 SEP	4 OCT 84	
1984 101B		15309	US	21 SEP	19 NOV 84	
1984 102A	COSMOS 1599	15318	USSR	25 SEP	20 NOV 84	
1984 103A	COSMOS 1600	15324	USSR	27 SEP	11 OCT 84	
1984 103B		15325	USSR	27 SEP	14 OCT 84	
1984 103F		15361	USSR	27 SEP	17 DEC 84	
1984 103H		15373	USSR	27 SEP	26 OCT 84	
1984 106D		15336	USSR	28 SEP	1 OCT 84	
1984 107B		15351	USSR	4 OCT	2 DEC 84	
1984 107C		15352	USSR	4 OCT	7 NOV 84	

OBJECTS DECAYED WITHIN THE REPORTING PERIOD

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984 108A	STS 41G	15353	US	5 OCT	13 OCT 84	
1984 113A	STS 51A	15382	US	8 NOV	16 NOV 84	
1984 116A	COSMOS 1608	15393	USSR	14 NOV	17 DEC 84	
1984 116B		15394	USSR	14 NOV	17 NOV 84	
1984 116C		15397	USSR	14 NOV	16 NOV 84	
1984 117A	COSMOS 1609	15395	USSR	14 NOV	28 NOV 84	
1984 117B		15396	USSR	14 NOV	25 NOV 84	
1984 117C		15400	USSR	14 NOV	17 NOV 84	
1984 117G		15411	USSR	14 NOV	1 DEC 84	
1984 117M		15421	USSR	14 NOV	11 DEC 84	
1984 117N		15428	USSR	14 NOV	24 DEC 84	
1984 119B		15404	USSR	21 NOV	25 NOV 84	
1984 119C		15405	USSR	21 NOV	22 NOV 84	
1984 120B		15407	USSR	27 NOV	2 DEC 84	
1984 121A	COSMOS 1613	15414	USSR	29 NOV	24 DEC 84	
1984 121B		15415	USSR	29 NOV	12 DEC 84	
1984 121C		15416	USSR	29 NOV	6 DEC 84	
1984 121D		15417	USSR	29 NOV	1 DEC 84	
1984 122B		15424	US	4 DEC	23 DEC 84	
1984 124G		15438	USSR	14 DEC	20 DEC 84	
1984 125B		15433	USSR	15 DEC	16 DEC 84	
1984 125C		15434	USSR	15 DEC	16 DEC 84	
1984 126A	COSMOS 1614	15442	USSR	19 DEC	19 DEC 84	
1984 126B		15443	USSR	19 DEC	21 DEC 84	
1984 126C		15444	USSR	19 DEC	20 DEC 84	
1984 126D		15445	USSR	19 DEC	20 DEC 84	
1984 128C		15451	USSR	21 DEC	23 DEC 84	
1984 128D		15452	USSR	21 DEC	23 DEC 84	

DECAYED OBJECTS

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1957 LAUNCHES						
ALPHA 1		1	USSR	4 OCT	1 DEC 57	
ALPHA 2	SPUTNIK 1	2	USSR	4 OCT	EARLY JAN 58	
BETA 1	SPUTNIK 2	3	USSR	3 NOV	14 APR 58	
1958 LAUNCHES						
ALPHA 1	EXPLORER 1	4	US	1 FEB	31 MAR 70	
GAMMA 1	EXPLORER 3	6	US	26 MAR	28 JUN 58	
DELTA 1		7	USSR	15 MAY	3 DEC 58	
DELTA 2	SPUTNIK 3	8	USSR	15 MAY	6 APR 60	
EPSILON 1	EXPLORER 4	9	US	26 JUL	23 OCT 59	
ZETA 1	SCORE	10	US	18 DEC	21 JAN 59	
ETA 1	PIONEER 1	110	US	11 OCT	12 OCT 58	
THETA 1	PIONEER 3	111	US	6 DEC	7 DEC 58	
1959 LAUNCHES						
ALPHA 3		5807	US	17 FEB	22 NOV 82	
BETA 1	DISCOVERER 1	13	US	28 FEB	EARLY MAR 59	
GAMMA 1	DISCOVERER 2	14	US	13 APR	26 APR 59	
DELTA 1	EXPLORER 6	15	US	7 AUG	PRIOR JUL 61	
DELTA 2		17	US	7 AUG	PRIOR JUL 61	
EPSILON 1	DISCOVERER 5	18	US	13 AUG	28 SEP 59	
EPSILON 2	CAPSULE	26	US	13 AUG	11 FEB 61	
ZETA 1	DISCOVERER 6	19	US	19 AUG	20 OCT 59	
THETA 1	LUNA 3	21	USSR	4 OCT	29 APR 60	
KAPPA 1	DISCOVERER 7	24	US	7 NOV	26 NOV 59	
LAMBDA 1	DISCOVERER 8	25	US	20 NOV	8 MAR 60	
XI 1	LUNA 2	114	USSR	12 SEP	15 SEP 59	A*
1960 LAUNCHES						
BETA 3		101	US	1 APR	17 APR 83	
GAMMA 1		30	US	13 APR	18 AUG 60	
GAMMA 2	TRANSIT 1B	31	US	13 APR	5 OCT 67	
GAMMA 3		33	US	13 APR	JUL 60	
GAMMA 4		99	US	13 APR	17 JUL 79	
DELTA 1	DISCOVERER 11	32	US	15 APR	26 APR 60	
EPSILON 1	SPUTNIK 4	34	USSR	15 MAY	5 SEP 62	
EPSILON 2		35	USSR	15 MAY	17 JUL 60	
EPSILON 3		36	USSR	15 MAY	15 OCT 65	
EPSILON 4		37	USSR	15 MAY	PRIOR JUL 61	
EPSILON 5		38	USSR	15 MAY	SEP - OCT 60	
EPSILON 6		39	USSR	15 MAY	24 SEP 60	
EPSILON 7		40	USSR	15 MAY	24 SEP 60	
EPSILON 8		41	USSR	15 MAY	SEP - OCT 60	
EPSILON 9		42	USSR	15 MAY	SEP - OCT 60	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1960 LAUNCHES (CONT.)						
ZETA 1	MIDAS 2	43	US	24 MAY	7 FEB 74	
ZETA 2		44	US	24 MAY	5 DEC 60	
THETA 1	DISCOVERER 13	48	US	10 AUG	14 NOV 60	
THETA 1	CAPSULE	NNA	US	10 AUG	11 AUG 60	B*
IOTA 1	ECHO 1	49	US	12 AUG	24 MAY 68	
KAPPA 1	DISCOVERER 14	54	US	18 AUG	16 SEP 60	
KAPPA 1	CAPSULE	NNA	US	18 AUG	19 AUG 60	B*
LAMBDA 1	SPUTNIK 5	55	USSR	19 AUG	20 AUG 60	C*
LAMBDA 2		56	USSR	19 AUG	23 SEP 60	
MU 1	DISCOVERER 15	57	US	13 SEP	18 OCT 60	
MU 1	CAPSULE	NNA	US	13 SEP	15 SEP 60	D*
TAU 1	DISCOVERER 19	68	US	20 DEC	23 JAN 61	
XI 3		69	US	3 NOV	16 FEB 70	
XI 4		105	US	3 NOV	3 MAR 72	
OMICRON 1	DISCOVERER 17	61	US	12 NOV	29 DEC 60	
OMICRON 1	CAPSULE	NNA	US	12 NOV	14 NOV 60	
PI 2		64	US	23 NOV	23 SEP 81	
RHO 1	SPUTNIK 6	65	USSR	1 DEC	2 DEC 60	
RHO 2		66	USSR	1 DEC	2 DEC 60	
SIGMA 1	DISCOVERER 18	67	US	7 DEC	2 APR 61	
SIGMA 1	CAPSULE	NNA	US	7 DEC	10 DEC 60	B*
1961 LAUNCHES						
ALPHA 1	SAMOS 2	70	US	31 JAN	21 OCT 73	
ALPHA 2		79	US	31 JAN	9 OCT 70	
BETA 1	SPUTNIK 7	71	USSR	4 FEB	26 FEB 61	
BETA 2		72	USSR	4 FEB	12-13 FEB 61	
BETA 3		73	USSR	4 FEB	17 MAR 61	
GAMMA 2		76	USSR	12 FEB	18 FEB 61	
GAMMA 3	SPUTNIK 8	77	USSR	12 FEB	25 FEB 61	
GAMMA 4		78	USSR	12 FEB	13-18 FEB 61	
DELTA 1	EXPLORER 9	81	US	16 FEB	9 APR 64	
DELTA 4		86	US	16 FEB	PRIOR JUL 61	
DELTA 5		3738	US	16 FEB	29 MAR 82	
DELTA 8		5237	US	16 FEB	20 JUL 74	
EPSILON 1	DISCOVERER 20	83	US	17 FEB	28 JUL 62	
EPSILON 2		88	US	17 FEB30	MAR-2 APR 61	
EPSILON 3		89	US	17 FEB	20 APR 61	
EPSILON 4		90	US	17 FEB	31 OCT 61	
ZETA 1	DISCOVERER 21	84	US	18 FEB	20 APR 62	
ETA 1	TRANSIT 3B & LOFT 1	87	US	22 FEB	30 MAR 61	
THETA 1	SPUTNIK 9	91	USSR	9 MAR	9 MAR 61	C*
THETA 2		92	USSR	9 MAR	10 MAR 61	
THETA 3		93	USSR	9 MAR	10 MAR 61	
THETA 4		94	USSR	9 MAR	10 MAR 61	
IOTA 1	SPUTNIK 10	95	USSR	25 MAR	25 MAR 61	
IOTA 2		96	USSR	25 MAR	26 MAR 61	
IOTA 3		97	USSR	25 MAR	26 MAR 61	
KAPPA 1	EXPLORER 10	98	US	25 MAR	?? JUN 68	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1961 LAUNCHES (CONT.)						
LAMBDA 1	DISCOVERER 23	100	US	8 APR	16 APR 62	
LAMBDA 2	CAPSULE	102	US	8 APR	23 MAY 62	
LAMBDA 3		106	US	8 APR	10 SEP 61	
MU 1	VOSTOK 1	103	USSR	12 APR	12 APR 61	E*
MU 2		104	USSR	12 APR	16 APR 61	
XI 1	DISCOVERER 25	108	US	16 JUN	12 JUL 61	
XI 1	CAPSULE	NNA	US	16 JUN	18 JUN 61	B*
XI 2		109	US	16 JUN	19 JUN 61	
OMICRON 14		129	US	29 JUN	31 AUG 81	
OMICRON 22		137	US	29 JUN	15 DEC 80	
OMICRON 24		139	US	29 JUN	8 JUL 78	
OMICRON 25		140	US	29 JUN	30 SEP 62	
OMICRON 27		142	US	29 JUN	25 DEC 67	
OMICRON 28		143	US	29 JUN	16 JUN 62	
OMICRON 31		146	US	29 JUN	7 JUL 69	
OMICRON 34		149	US	29 JUN	3 MAR 79	
OMICRON 36		151	US	29 JUN	2 DEC 67	
OMICRON 38		153	US	29 JUN	22 APR 81	
OMICRON 42		157	US	29 JUN	8 JAN 81	
OMICRON 45		161	US	29 JUN	29 AUG 81	
OMICRON 46		171	US	29 JUN	29 JAN 62	
OMICRON 49		176	US	29 JUN	12 FEB 82	
OMICRON 57		220	US	29 JUN	21 FEB 66	
OMICRON 62		231	US	29 JUN	13 FEB 65	
OMICRON 67		236	US	29 JUN	13 MAY 69	
OMICRON 68		237	US	29 JUN	12 APR 69	
OMICRON 69		238	US	29 JUN	7 DEC 69	
OMICRON 70		239	US	29 JUN	17 JUN 67	
OMICRON 75		250	US	29 JUN	13 SEP 81	
OMICRON 84		265	US	29 JUN	12 OCT 78	
OMICRON 88		300	US	29 JUN	15 DEC 79	
OMICRON 89		301	US	29 JUN	8 APR 81	
OMICRON 90		317	US	29 JUN	11 JAN 81	
OMICRON 92		319	US	29 JUN	23 JUL 81	
OMICRON 94		321	US	29 JUN	26 FEB 69	
OMICRON 95		322	US	29 JUN	6 JUN 69	
OMICRON 99		326	US	29 JUN	7 OCT 79	
OMICRON 101		328	US	29 JUN	3 MAY 70	
OMICRON 105		332	US	29 JUN	20 SEP 70	
OMICRON 113		352	US	29 JUN	10 DEC 66	
OMICRON 117		356	US	29 JUN	2 FEB 81	
OMICRON 119		358	US	29 JUN	31 AUG 66	
OMICRON 120		359	US	29 JUN	31 AUG 65	
OMICRON 131		411	US	29 JUN	20 JUN 78	
OMICRON 132		412	US	29 JUN	30 JUN 80	
OMICRON 149		468	US	29 JUN	3 DEC 81	
OMICRON 154		473	US	29 JUN	2 MAR 72	
OMICRON 155		477	US	29 JUN	18 JAN 82	
OMICRON 164		531	US	29 JUN	15 APR 71	
OMICRON 182		557	US	29 JUN	14 FEB 67	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1961 LAUNCHES (CONT.)						
OMICRON 190		646	US	29 JUN	7 JUN 72	
OMICRON 194		650	US	29 JUN	27 MAY 82	
OMICRON 198		654	US	29 JUN	3 JUL 68	
OMICRON 208		1501	US	29 JUN	23 JAN 79	
OMICRON 211		2010	US	29 JUN	6 MAY 80	
OMICRON 212		2087	US	29 JUN	13 MAR 79	
OMICRON 213		3037	US	29 JUN	1 FEB 68	
OMICRON 218		3740	US	29 JUN	25 DEC 74	
OMICRON 224		3953	US	29 JUN	3 JUN 69	
OMICRON 225		3969	US	29 JUN	27 JUN 69	
OMICRON 230		4027	US	29 JUN	19 DEC 70	
OMICRON 234		5715	US	29 JUN	9 APR 82	
OMICRON 237		5747	US	29 JUN	3 JAN 77	
OMICRON 242		5787	US	29 JUN	28 AUG 74	
OMICRON 247		5877	US	29 JUN	1 MAY 79	
OMICRON 248		5972	US	29 JUN	30 OCT 76	
OMICRON 249		5985	US	29 JUN	7 DEC 76	
OMICRON 250		6179	US	29 JUN	20 NOV 76	
OMICRON 251		6746	US	29 JUN	21 DEC 74	
OMICRON 256		9969	US	29 JUN	5 APR 78	
PI 1	DISCOVERER 26	160	US	7 JUL	5 DEC 61	
PI 1	CAPSULE	NNA	US	7 JUL	9 JUL 61	B*
SIGMA 2		164	US	12 JUL	24 JUL 61	
SIGMA 5		6215	US	12 JUL	30 OCT 76	
TAU 1	VOSTOK 2	163	USSR	6 AUG	7 AUG 61	E*
TAU 2		169	USSR	6 AUG	9 AUG 61	
UPSILON 1	EXPLORER 12	170	US	16 AUG	?? SEP 63	
PHI 1	RANGER 1	173	US	23 AUG	30 AUG 61	
PHI 2		174	US	23 AUG	3 SEP 61	
CHI 1	EXPLORER 13	180	US	25 AUG	28 AUG 61	
PSI 1	DISCOVERER 29	181	US	30 AUG	10 SEP 61	
PSI 1	CAPSULE	NNA	US	30 AUG	4 SEP 61	
OMEGA 1	DISCOVERER 30	182	US	12 SEP	11 DEC 61	
OMEGA 1	CAPSULE	NNA	US	12 SEP	15 SEP 61	B*
OMEGA 2		185	US	12 SEP	18 SEP 61	
OMEGA 3		187	US	12 SEP	28 SEP 61	
A-ALPHA 1	MA 4	183	US	13 SEP	13 SEP 61	B*
A-ALPHA 2		184	US	13 SEP	13 SEP 61	
A-BETA 1	DISCOVERER 31	186	US	17 SEP	26 OCT 61	
A-GAMMA 1	DISCOVERER 32	189	US	13 OCT	13 NOV 61	
A-GAMMA 1	CAPSULE	NNA	US	13 OCT	14 OCT 61	B*
A-GAMMA 2		190	US	13 OCT	25 OCT 61	B*
A-GAMMA 3		191	US	13 OCT	16 OCT 61	
A-DELTA 2		193	US	21 OCT	5 DEC 61	
A-EPSILON 1	DISCOVERER 34	197	US	5 NOV	7 DEC 62	
A-EPSILON 2		198	US	5 NOV	30 NOV 61	
A-EPSILON 3		199	US	5 NOV	9 DEC 61	
A-EPSILON 4		200	US	5 NOV	10 DEC 61	
A-EPSILON 5		203	US	5 NOV	12 DEC 61	
A-ZETA 1	DISCOVERER 35	201	US	15 NOV	3 DEC 61	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1961 LAUNCHES (CONT.)						
A-ZETA 1	CAPSULE	NNA	US	15 NOV	16 NOV 61	B*
A-ZETA 2		207	US	15 NOV	23 NOV 61	
A-THETA 1	RANGER 2	206	US	18 NOV	20 NOV 61	
A-IOTA 1	MA 5	208	US	29 NOV	29 NOV 61	B*
A-IOTA 2		209	US	29 NOV	30 NOV 61	
A-KAPPA 1	DISCOVERER 36	213	US	12 DEC	8 MAR 62	
A-KAPPA 1	CAPSULE	NNA	US	12 DEC	16 DEC 61	B*
A-KAPPA 2	OSCAR 1	214	US	12 DEC	31 JAN 62	
A-KAPPA 3		215	US	12 DEC	19 DEC 61	
A-LAMBDA 1		217	US	22 DEC	14 AUG 62	
A-LAMBDA 2		218	US	22 DEC	31 DEC 61	
A-LAMBDA 3		219	US	22 DEC	9 JAN 62	
1962 LAUNCHES						
GAMMA 1	FRIENDSHIP 7	240	US	20 FEB	20 FEB 62	F*
GAMMA 2		241	US	20 FEB	21 FEB 62	
DELTA 1		242	US	21 FEB	4 MAR 62	
EPSILON 1	DISCOVERER 38	247	US	27 FEB	21 MAR 62	
EPSILON 1	CAPSULE	NNA	US	27 FEB	3 MAR 62	B*
EPSILON 2		248	US	27 FEB	3 MAR 62	
EPSILON 3		249	US	27 FEB	3 MAR 62	
EPSILON 4		251	US	27 FEB	7 MAR 62	
ZETA 1	OSO 1	255	US	7 MAR	8 OCT 81	
ZETA 2		257	US	7 MAR	3 MAY 70	
ETA 1		256	US	7 MAR	7 JUN 63	
ETA 2		258	US	7 MAR	31 MAR 62	
ETA 3		259	US	7 MAR	3 NOV 62	
THETA 1	COSMOS 1	266	USSR	16 MAR	25 MAY 62	
THETA 2		267	USSR	16 MAR	18 JUN 62	
IOTA 1	COSMOS 2	269	USSR	6 APR	19-20 AUG 63	
IOTA 2		270	USSR	6 APR	6 OCT 62	
KAPPA 2		272	US	9 APR	4 MAY 62	
KAPPA 5		4494	US	9 APR	22 MAY 77	
KAPPA 6		5703	US	9 APR	7 NOV 76	
LAMBDA 1		276	US	18 APR	28 MAY 62	
LAMBDA 2		277	US	18 APR	20 APR 62	
LAMBDA 3		278	US	18 APR	21 APR 62	
LAMBDA 4		279	US	18 APR	21 APR 62	
MU 1	RANGER 4	280	US	23 APR	26 APR 62	G*
NU 1	COSMOS 3	281	USSR	24 APR	17 OCT 62	
NU 2		283	USSR	24 APR	5 AUG 62	
XI 1	COSMOS 4	287	USSR	26 APR	29 APR 62	
XI 2		284	USSR	26 APR	17 JUN 62	
XI 3		289	USSR	26 APR	3 MAY 62	
OMICRON 1	ARIEL 1	285	UK	26 APR	24 MAY 76	
OMICRON 2		288	US	26 APR	28 APR 71	
PI 1		286	US	26 APR	28 APR 62	
RHO 1		290	US	29 APR	26 MAY 62	
RHO 2		291	US	29 APR	1 MAY 62	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1962 LAUNCHES (CONT.)						
SIGMA 1		292	US	15 MAY	26 NOV 63	
SIGMA 2		293	US	15 MAY	3 JUL 62	
SIGMA 3		294	US	15 MAY	13 JUL 62	
TAU 1	AURORA 7	295	US	24 MAY	24 MAY 62	F*
TAU 2		296	US	24 MAY	25 MAY 62	
UPSILON 1	COSMOS 5	297	USSR	28 MAY	2 MAY 63	
UPSILON 2		298	USSR	28 MAY	15 DEC 62	
PHI 1		302	US	30 MAY	11 JUN 62	
PHI 2		303	US	30 MAY	2 JUN 62	
CHI 1		304	US	2 JUN	28 JUN 62	
CHI 2	OSCAR 2	305	US	2 JUN	21 JUN 62	
CHI 3		306	US	2 JUN	6 JUN 62	
PSI 1		307	US	17 JUN	18 JUN 62	
OMEGA 1		308	US	18 JUN	30 OCT 63	
OMEGA 2		310	US	18 JUN	12 JUL 62	
OMEGA 3		314	US	18 JUN	14 JUL 62	
A ALPHA 5		6251	US	19 JUN	30 OCT 76	
A-BETA 1		315	US	23 JUN	7 JUL 62	
A-GAMMA 1		316	US	28 JUN	14 SEP 62	
A-DELTA 1	COSMOS 6	336	USSR	30 JUN	8 AUG 62	
A-DELTA 2		339	USSR	30 JUN	8 SEP 62	
A-ZETA 1		342	US	18 JUL	25 JUL 62	
A-ZETA 2		343	US	18 JUL	27 JUL 62	
A-ETA 1		344	US	21 JUL	14 AUG 62	
A-THETA 1		345	US	28 JUL	24 AUG 62	
A-IOTA 1	COSMOS 7	346	USSR	28 JUL	1 AUG 62	
A-IOTA 2		347	USSR	28 JUL	21 AUG 62	
A-IOTA 3		348	USSR	28 JUL	31 JUL 62	
A-IOTA 4		349	USSR	28 JUL	30 JUL 62	
A-KAPPA 1		360	US	2 AUG	26 AUG 62	
A-KAPPA 2		362	US	2 AUG	8 AUG 62	
A-LAMBDA 1		361	US	5 AUG	6 AUG 62	
A-MU 1	VOSTOK 3	363	USSR	11 AUG	15 AUG 62	E*
A-MU 2		364	USSR	11 AUG	14 AUG 62	
A-NU 1	VOSTOK 4	365	USSR	12 AUG	15 AUG 62	E*
A-NU 2		366	USSR	12 AUG	14 AUG 62	
A-XI 1	COSMOS 8	367	USSR	18 AUG	17 AUG 63	
A-XI 2		368	USSR	18 AUG	19 AUG 62	
A OMICRON 2		370	US	23 AUG	2 MAR 80	
A-PI 1		371	USSR	25 AUG	28 AUG 62	
A-PI 2		372	USSR	25 AUG	2 SEP 62	
A-PI 3		373	USSR	25 AUG	31 AUG 62	
A-PI 4		379	USSR	25 AUG	5 SEP 62	
A-PI 5		380	USSR	25 AUG	30 AUG 62	
A-PI 6		376	USSR	25 AUG	6 SEP 62	
A-PI 7		386	USSR	25 AUG	6 SEP 62	
A-PI 8		387	USSR	25 AUG	5 SEP 62	
A-SIGMA 1		377	US	29 AUG	10 SEP 62	
A-TAU 1		381	USSR	1 SEP	6 SEP 62	
A-TAU 2		382	USSR	1 SEP	3 SEP 62	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1962 LAUNCHES (CONT.)						
A-TAU 3		383	USSR	1 SEP 3 SEP-1	OCT 62	
A-TAU 4		384	USSR	1 SEP	21 SEP 62	
A-UPSILON 1		385	US	1 SEP	26 OCT 64	
A-PHI 1		389	USSR	12 SEP	14 SEP 62	
A-PHI 2		390	USSR	12 SEP	12 SEP 62	
A-PHI 3		391	USSR	12 SEP	17 SEP 62	
A-PHI 4		392	USSR	12 SEP	13 SEP 62	
A-PHI 5		393	USSR	12 SEP	13 SEP 62	
A-PHI 6		394	USSR	12 SEP	16 SEP 62	
A-PHI 7		395	USSR	12 SEP	15 SEP 62	
A-CHI 1	ERS 2	396	US	17 SEP	16 NOV 62	
A PSI 2		398	US	18 SEP	10 JAN 83	
A-OMEGA 1		422	USSR	27 SEP	1 OCT 62	
A-OMEGA 2		423	USSR	27 SEP	22 DEC 62	
A-OMEGA 3		425	USSR	27 SEP	6 OCT 62	
A-OMEGA 4		428	USSR	27 SEP	8 OCT 62	
A-OMEGA 5		429	USSR	27 SEP	4 OCT 62	
A-OMEGA 6		430	USSR	27 SEP	8 OCT 62	
A-OMEGA 7		431	USSR	27 SEP	3 OCT 62	
A-OMEGA 8		435	USSR	27 SEP	6 OCT 62	
B-BETA 1		427	US	29 SEP	14 OCT 62	
B GAMMA 1	EXPLORER 14	432	US	2 OCT	1 JUL 66	
B-DELTA 1	SIGMA 7	433	US	3 OCT	3 OCT 62	F*
B-DELTA 2		434	US	3 OCT	4 OCT 62	
B-EPSILON 1		436	US	9 OCT	16 NOV 62	
B-ZETA 1		437	USSR	17 OCT	21 OCT 62	
B-ZETA 2		438	USSR	17 OCT	5 NOV 62	
B-THETA 1		441	USSR	20 OCT	18 MAY 64	
B-THETA 2		442	USSR	20 OCT	5 JUN 63	
B-IOTA 1	SPUTNIK 29	443	USSR	24 OCT	29 OCT 62	
B-IOTA 2		456	USSR	24 OCT	2 DEC 62	H*
B-IOTA 3		457	USSR	24 OCT	26 FEB 63	
B-IOTA 4		458	USSR	24 OCT	29 NOV 62	
B-IOTA 5		459	USSR	24 OCT	24 DEC 62	
B-IOTA 6		460	USSR	24 OCT	8 DEC 62	
B-IOTA 7		462	USSR	24 OCT	10 DEC 62	
B-IOTA 8		463	USSR	24 OCT	2 JAN 63	
B-IOTA 10		465	USSR	24 OCT	10 DEC 62	
B-IOTA 11		486	USSR	24 OCT	30 NOV 62	
B-IOTA 12		487	USSR	24 OCT	1 DEC 62	
B-IOTA 13		491	USSR	24 OCT	25 DEC 62	
B-IOTA 14		492	USSR	24 OCT	15 DEC 62	
B-IOTA 15		493	USSR	24 OCT	21 DEC 62	
B-IOTA 16		494	USSR	24 OCT	17 DEC 62	
B-IOTA 17		495	USSR	24 OCT	26 DEC 62	
B-IOTA 18		496	USSR	24 OCT	23 DEC 62	
B-IOTA 19		497	USSR	24 OCT	26 DEC 62	
B-IOTA 20		498	USSR	24 OCT	10 DEC 62	
B-IOTA 21		499	USSR	24 OCT	9 DEC 62	
B-IOTA 22		500	USSR	24 OCT	28 DEC 62	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1962 LAUNCHES (CONT.)						
B-IOTA 23		501	USSR	24 OCT	26 DEC 62	
B-IOTA 24		512	USSR	24 OCT	31 DEC 62	
B-IOTA 9		484	USSR	24 OCT	4 DEC 62	
B-KAPPA 1		444	US	26 OCT	5 OCT 67	
B-NU 1		448	USSR	1 NOV	2-3 NOV 62	
B-NU 2		449	USSR	1 NOV	3 NOV 62	
B-XI 1		451	USSR	4 NOV	5 NOV 62	
B-XI 2		452	USSR	4 NOV	8 NOV 62	
B-XI 3		454	USSR	4 NOV	19 JAN 63	
B-XI 4		488	USSR	4 NOV	25 DEC 62	
B-XI 5		489	USSR	4 NOV	27 DEC 62	
B-OMICRON 1		453	US	5 NOV	3 DEC 62	
B-PI 1		455	US	11 NOV	12 NOV 62	
B-RHO 1		481	US	24 NOV	13 DEC 62	
B-SIGMA 1		490	US	4 DEC	8 DEC 62	
B-TAU 1		502	US	13 DEC	9 FEB 67	
B-TAU 2	INJUN 3	504	US	13 DEC	25 AUG 68	
B-TAU 3		507	US	13 DEC	1 JUL 63	
B-TAU 4		508	US	13 DEC	18 JAN 66	
B-TAU 5		513	US	13 DEC	5 FEB 67	
B-TAU 6		520	US	13 DEC	24 MAR 68	
B-PHI 1		505	US	14 DEC	8 JAN 63	
B-PSI 2		514	US	19 DEC	22 APR 69	
B PSI 4		523	US	19 DEC	30 NOV 80	
B PSI 5		7258	US	19 DEC	19 JUL 77	
B-OMEGA 1		517	USSR	22 DEC	30 DEC 62	
B-OMEGA 2		518	USSR	22 DEC	22 JAN 63	
1963 LAUNCHES						
1963 001A		521	USSR	4 JAN	5 JAN 63	
1963 001B		522	USSR	4 JAN	11 JAN 63	
1963 001C		524	USSR	4 JAN	11 JAN 63	
1963 002A		525	US	7 JAN	24 JAN 63	
1963 002B		526	US	7 JAN	16 JAN 63	
1963 003A		527	US	16 JAN	9 JAN 69	
1963 003B		528	US	16 JAN	8 NOV 63	
1963 003C		529	US	16 JAN	31 DEC 63	
1963 004B		532	US	14 FEB	2 NOV 81	
1963 005A		533	US	19 FEB	26 DEC 79	
1963 005B		534	US	19 FEB	29 MAY 84	
1963 005C		535	US	19 FEB	29 JUN 69	
1963 005D		536	US	19 FEB	18 JUL 78	
1963 006A		554	USSR	21 MAR	29 MAR 63	
1963 006B		555	USSR	21 MAR	9 APR 63	
1963 007A		562	US	1 APR	26 APR 63	
1963 008A		563	USSR	2 APR	3 APR 63	
1963 009A	EXPLORER 17	564	US	3 APR	24 NOV 66	
1963 009B		565	US	3 APR	24 NOV 63	
1963 010A		567	USSR	13 APR	29 AUG 63	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1963 LAUNCHES (CONT.)						
1963 010B		568	USSR	13 APR	6 JUL 63	
1963 011A		569	USSR	22 APR	27 APR 63	
1963 011B		570	USSR	22 APR	1 MAY 63	
1963 012A		571	USSR	28 APR	8 MAY 63	
1963 012B		572	USSR	28 APR	20 MAY 63	
1963 014AE		2497	US	9 MAY	30 MAR 81	
1963 014AF		2499	US	9 MAY	12 APR 77	
1963 014AG		2500	US	9 MAY	19 NOV 74	
1963 014AH		2522	US	9 MAY	18 JAN 78	
1963 014AM		2533	US	9 MAY	3 JAN 77	
1963 014AN		2638	US	9 MAY	15 DEC 81	
1963 014AP		2793	US	9 MAY	25 FEB 71	
1963 014AW		3105	US	9 MAY	7 JUN 73	
1963 014AX		3159	US	9 MAY	18 FEB 68	
1963 014AY		3175	US	9 MAY	21 MAY 68	
1963 014BA		3236	US	9 MAY	10 MAY 79	
1963 014BF		3241	US	9 MAY	28 MAY 70	
1963 014BK		3245	US	9 MAY	30 OCT 76	
1963 014BM		3247	US	9 MAY	4 APR 77	
1963 014BP		3249	US	9 MAY	28 SEP 80	
1963 014BS		3252	US	9 MAY	30 MAY 73	
1963 014BU		3254	US	9 MAY	2 NOV 69	
1963 014BV		3255	US	9 MAY	30 OCT 76	
1963 014BW		3256	US	9 MAY	12 APR 77	
1963 014BY		3258	US	9 MAY	8 AUG 69	
1963 014BZ		3259	US	9 MAY	30 OCT 76	
1963 014CA		3260	US	9 MAY	17 JUN 69	
1963 014CC		3262	US	9 MAY	4 JUL 69	
1963 014CG		3268	US	9 MAY	1 AUG 69	
1963 014CK		3330	US	9 MAY	3 FEB 70	
1963 014CP		5500	US	9 MAY	23 JAN 77	
1963 014CQ		5503	US	9 MAY	3 JAN 77	
1963 014CR		5511	US	9 MAY	23 JAN 75	
1963 014CS		5512	US	9 MAY	5 DEC 76	
1963 014CT		5513	US	9 MAY	19 FEB 75	
1963 014CV		5916	US	9 MAY	26 APR 72	
1963 014CX		5954	US	9 MAY	22 NOV 82	
1963 014CZ		5993	US	9 MAY	20 AUG 74	
1963 014DC		5996	US	9 MAY	30 OCT 76	
1963 014DD		5997	US	9 MAY	21 NOV 73	
1963 014DE		9694	US	9 MAY	22 NOV 82	
1963 015A	FAITH 7	576	US	15 MAY	16 MAY 63	F*
1963 015B		577	US	15 MAY	16 MAY 63	
1963 016A		578	US	18 MAY	27 MAY 63	
1963 017A		580	USSR	22 MAY	2 JUN 65	
1963 017B		581	USSR	22 MAY	26 AUG 63	
1963 017C		582	USSR	22 MAY	12 MAY 65	
1963 017D		583	USSR	22 MAY	30 AUG 63	
1963 017E		584	USSR	22 MAY	25 JUL 63	
1963 017F		585	USSR	22 MAY	30 SEP 63	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1963 LAUNCHES (CONT.)						
1963 017G		588	USSR	22 MAY	2 APR 64	
1963 018A		586	USSR	24 MAY	2 JUN 63	
1963 018B		587	USSR	24 MAY	8 JUN 63	
1963 019A		590	US	12 JUN	11 JUL 63	
1963 020A	VOSTOK 5	591	USSR	14 JUN	19 JUN 63	E*
1963 020B		592	USSR	14 JUN	16 JUN 63	
1963 021A		593	US	15 JUN	7 AUG 63	
1963 021B	LOFTI 2A	601	US	15 JUN	18 JUL 63	
1963 021C	SOLRAD 6	599	US	15 JUN	1 AUG 63	
1963 021D	RADOSE	600	US	15 JUN	30 JUL 63	
1963 021E		598	US	15 JUN	27 JUL 63	
1963 021F		597	US	15 JUN	5 JUL 63	
1963 021G		617	US	15 JUN	3 JUL 63	
1963 022D		611	US	16 JUN	1 MAR 71	
1963 023A	VOSTOK 6	595	USSR	16 JUN	19 JUN 63	E*
1963 023B		596	USSR	16 JUN	18 JUN 63	
1963 024B		605	US	19 JUN	23 DEC 78	
1963 024D		607	US	19 JUN	1 FEB 80	
1963 025A		609	US	27 JUN	26 JUL 63	
1963 026A	RESEARCH SATELLITE	612	US	28 JUN	14 DEC 83	
1963 026A	FOR GEOPHYSICS	62000				
1963 027A		613	US	29 JUN	26 OCT 69	
1963 027B		615	US	29 JUN	14-15 NOV 64	
1963 027C		616	US	29 JUN	10 JUL 63	
1963 028A		618	US	12 JUL	18 JUL 63	
1963 028B		619	US	12 JUL	13 JUL 63	
1963 028C		620	US	12 JUL	16 JUL 63	
1963 029A		621	US	18 JUL	13 AUG 63	
1963 029B		623	US	18 JUL	29 JUL 63	
1963 030D		624	US	18 JUL	12 APR 71	
1963 032A		626	US	31 JUL	11 AUG 63	
1963 032B		627	US	31 JUL	10 AUG 63	
1963 033A		632	USSR	6 AUG	30 MAR 64	
1963 033B		633	USSR	6 AUG	8-9 DEC 63	
1963 034A		636	US	24 AUG	12 SEP 63	
1963 034B		642	US	24 AUG	8 SEP 63	
1963 035A		637	US	29 AUG	7 NOV 63	
1963 035B		638	US	29 AUG	28-29 SEP 63	
1963 035C		639	US	29 AUG	2 SEP 63	
1963 035D		640	US	29 AUG	1 SEP 63	
1963 036A		641	US	6 SEP	13 SEP 63	
1963 036B		663	US	6 SEP	13-14 SEP 63	
1963 036C		664	US	6 SEP	10 SEP 63	
1963 036D		665	US	6 SEP	8 SEP 63	
1963 036E		666	US	6 SEP	10-11 SEP 63	
1963 036F		667	US	6 SEP	10 SEP 63	
1963 037A		668	US	24 SEP	12 OCT 63	
1963 038H		7259	US	28 SEP	6 NOV 82	
1963 039B	ERS 12	675	US	17 OCT	1 JUL 65	
1963 040A		673	USSR	18 OCT	28-29 OCT 63	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1963 LAUNCHES (CONT.)						
1963 040B		676	USSR	18 OCT	30-31 OCT 63	
1963 041A		677	US	25 OCT	29 OCT 63	
1963 041B		678	US	25 OCT	28-29 OCT 63	
1963 041C		679	US	25 OCT	28-29 OCT 63	
1963 041D		680	US	25 OCT	28-29 OCT 63	
1963 042A		681	US	29 OCT	21 JAN 64	
1963 042B		682	US	29 OCT	23 MAY 65	
1963 042C		691	US	29 OCT	27 NOV 63	
1963 043A	POLYOT 1	683	USSR	1 NOV	16 OCT 82	
1963 043B		684	USSR	1 NOV	23 NOV 66	
1963 043C		685	USSR	1 NOV	29 OCT 65	
1963 043D		686	USSR	1 NOV	18 DEC 66	
1963 044A	COSMOS 21	687	USSR	11 NOV	14 NOV 63	
1963 044B		688	USSR	11 NOV	12 NOV 63	
1963 045A	COSMOS 22	689	USSR	16 NOV	22 NOV 63	
1963 045B		690	USSR	16 NOV	3 DEC 63	
1963 046A	EXPLORER 18	693	US	27 NOV	30 DEC 65	
1963 047N		6004	US	27 NOV	17 FEB 80	
1963 047P		6158	US	27 NOV	22 NOV 73	
1963 048A		695	US	27 NOV	15 DEC 63	
1963 049J		2930	US	5 DEC	14 OCT 79	
1963 049K		4586	US	5 DEC	1 JUN 79	
1963 049L		6132	US	5 DEC	9 AUG 80	
1963 049M		6283	US	5 DEC	20 JUN 79	
1963 050A	COSMOS 23	707	USSR	13 DEC	27 MAR 64	
1963 050B		708	USSR	13 DEC	6 MAR 64	
1963 050C		709	USSR	13 DEC	3 JAN 64	
1963 050D		710	USSR	13 DEC	1 JAN 64	
1963 051A		711	US	18 DEC	20 DEC 63	
1963 052A	COSMOS 24	712	USSR	19 DEC	28 DEC 63	
1963 052B		713	USSR	19 DEC	25 JAN 64	
1963 053A	EXPLORER 19	714	US	19 DEC	10 MAY 81	
1963 053D		723	US	19 DEC	12 NOV 82	
1963 053F		725	US	19 DEC	23 DEC 74	
1963 054D		736	US	21 DEC	25 NOV 81	
1963 055A		716	US	21 DEC	8 JAN 64	
1963 055B		719	US	21 DEC	7 NOV 64	
1964 LAUNCHES						
1964 004A	ECHO 2	740	US	25 JAN	7 JUN 69	
1964 004E		749	US	25 JAN	23 FEB 66	
1964 005A	SATURN 5	744	US	29 JAN	30 APR 66	
1964 007A	RANGER 6	747	US	30 JAN	2 FEB 64	G*
1964 008A		752	US	15 FEB	9 MAR 64	
1964 008B		755	US	15 FEB	21 FEB 64	
1964 009A		754	US	25 FEB	1 MAR 64	
1964 009B		756	US	25 FEB	26 FEB 64	
1964 010A	COSMOS 25	757	USSR	27 FEB	21 NOV 64	
1964 010B		758	USSR	27 FEB	18 JUN 64	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964 LAUNCHES (CONT.)						
1964 010C		762	USSR	27 FEB	4 MAR 64	
1964 010D		763	USSR	27 FEB	23 APR 64	
1964 011A		759	US	28 FEB	19 FEB 69	
1964 011B		760	US	28 FEB	17 AUG 65	
1964 011C		761	US	28 FEB	21 SEP 65	
1964 011D		2653	US	28 FEB	1 MAR 67	
1964 012A		764	US	11 MAR	16 MAR 64	
1964 012B		765	US	11 MAR	12 MAY 64	
1964 013A	COSMOS 26	766	USSR	18 MAR	28 SEP 64	
1964 013B		767	USSR	18 MAR	17 MAY 64	
1964 013C		768	USSR	18 MAR	20-22 APR 64	
1964 013D		769	USSR	18 MAR	24-25 MAR 64	
1964 014A	COSMOS 27	770	USSR	27 MAR	28 MAR 64	
1964 014B		772	USSR	27 MAR	29 MAR 64	
1964 014C		773	USSR	27 MAR	30-31 MAR 64	
1964 014D		774	USSR	27 MAR	3-4 APR 64	
1964 015A	ARIEL 2	771	UK	27 MAR	18 NOV 67	
1964 015B		775	US	27 MAR	13 APR 64	
1964 015C		847	US	27 MAR	6 MAY 68	
1964 016A		776	USSR	2 APR	3 APR 64	
1964 016B		777	USSR	2 APR	2 APR 64	
1964 016C		778	USSR	2 APR	5 APR 64	
1964 017A	COSMOS 28	779	USSR	4 APR	12 APR 64	
1964 017B		780	USSR	4 APR	3 MAY 64	
1964 017C		781	USSR	4 APR	6-7 APR 64	
1964 018A	GEMINI 1	782	US	8 APR	12 APR 64	
1964 019A		783	USSR	12 APR	30 APR-1 MAY 64	
1964 019B	POLYOT 2	784	USSR	12 APR	8 JUN 66	
1964 020A		786	US	23 APR	28-29 APR 64	
1964 020B		787	US	23 APR	26 APR 64	
1964 020C		788	US	23 APR	25 APR 64	
1964 020D		789	US	23 APR	25 APR 64	
1964 020E		790	US	23 APR	25 APR 64	
1964 021A	COSMOS 29	791	USSR	25 APR	2 MAY 64	
1964 021B		792	USSR	25 APR	11 MAY 64	
1964 021C		793	USSR	25 APR	26-27 APR 64	
1964 021D		794	USSR	25 APR	27-28 APR 64	
1964 021E		795	USSR	25 APR	27 APR 64	
1964 022A		796	US	27 APR	26 MAY 64	
1964 023A	COSMOS 30	797	USSR	18 MAY	26 MAY 64	
1964 023B		798	USSR	18 MAY	7 JUN 64	
1964 024A		799	US	19 MAY	22 MAY 64	
1964 025A	SATURN 6	800	US	28 MAY	1 JUN 64	
1964 026F		12142	US	4 JUN	25 OCT 81	
1964 027A		802	US	4 JUN	18 JUN 64	
1964 028A	COSMOS 31	803	USSR	6 JUN	20 OCT 64	
1964 028B		804	USSR	6 JUN	16 AUG 64	
1964 029A	COSMOS 32	807	USSR	10 JUN	18 JUN 64	
1964 029B		808	USSR	10 JUN	14 JUL 64	
1964 029C		810	USSR	10 JUN	12 JUN 64	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964 LAUNCHES (CONT.)						
1964 030A		811	US	13 JUN	2 JUN 65	
1964 030B		820	US	13 JUN	7 AUG 64	
1964 032A		814	US	19 JUN	16 JUL 64	
1964 032B		821	US	19 JUN	2 JUL 64	
1964 033A	COSMOS 33	816	USSR	23 JUN	1 JUL 64	
1964 033B		817	USSR	23 JUN	10 JUL 64	
1964 033C		818	USSR	23 JUN	24 JUN 64	
1964 033D		819	USSR	23 JUN	24 JUN 64	
1964 034A	COSMOS 34	822	USSR	1 JUL	9 JUL 64	
1964 034B		823	USSR	1 JUL	15 JUL 64	
1964 035A		824	US	2 JUL	7 AUG 69	
1964 036A		825	US	6 JUL	8 JUL 64	
1964 036B		826	US	6 JUL	3 JAN 65	
1964 036C		827	US	6 JUL	19 JUL 64	
1964 037A		828	US	10 JUL	6 AUG 64	
1964 038B	ELEKTRON 4	830	USSR	10 JUL	12 OCT 83	
1964 038D		832	USSR	10 JUL	24 AUG 83	
1964 038E		5892	USSR	10 JUL	20 FEB 74	
1964 038F		5893	USSR	10 JUL	20 NOV 74	
1964 039A	COSMOS 35	833	USSR	15 JUL	23 JUL 64	
1964 039B		834	USSR	15 JUL	1 AUG 64	
1964 039C		835	USSR	15 JUL	31 JUL 64	
1964 039D		839	USSR	15 JUL	25 JUL 64	
1964 040C	ERS 13	838	US	17 JUL	1 JUL 66	
1964 041A	RANGER 7	842	US	28 JUL	31 JUL 64	G*
1964 042A	COSMOS 36	844	USSR	30 JUL	28 FEB 65	
1964 042B		845	USSR	30 JUL	29 NOV 64	
1964 043A		846	US	5 AUG	31 AUG-1 SEP 64	
1964 044A	COSMOS 37	848	USSR	14 AUG	23 AUG 64	
1964 044B		849	USSR	14 AUG	3 SEP 64	
1964 045A		850	US	14 AUG	23 AUG 64	
1964 045B		851	US	14 AUG	8 MAR 79	
1964 045C		852	US	14 AUG	16 AUG 64	
1964 046A	COSMOS 38	853	USSR	18 AUG	8 NOV 64	
1964 046B	COSMOS 39	854	USSR	18 AUG	17 NOV 64	
1964 046C	COSMOS 40	855	USSR	18 AUG	18 NOV 64	
1964 046D		856	USSR	18 AUG	19 FEB 65	
1964 046E		857	USSR	18 AUG	10 SEP 64	
1964 046F		859	USSR	18 AUG	6 SEP 64	
1964 046G		860	USSR	18 AUG	6 SEP 64	
1964 048A		861	US	21 AUG	31 MAR 65	
1964 049A		863	USSR	22 AUG	15 SEP 64	
1964 049B		865	USSR	22 AUG	28 SEP 64	
1964 049C		868	USSR	22 AUG	30 AUG 64	
1964 050A	COSMOS 42	864	USSR	22 AUG	19 DEC 65	
1964 050B		866	USSR	22 AUG	2 AUG 65	
1964 050C	COSMOS 43	867	USSR	22 AUG	27 DEC 65	
1964 051C		873	US	25 AUG	18 APR 68	
1964 051D		874	US	25 AUG	17 JUN 68	
1964 051E		875	US	25 AUG	16 SEP 68	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964 LAUNCHES (CONT.)						
1964 052A	NIMBUS 1	872	US	28 AUG	16 MAY 74	
1964 052B		878	US	28 AUG	13 AUG 74	
1964 055A		880	USSR	13 SEP	18 SEP 64	
1964 055B		881	USSR	13 SEP	27 SEP 64	
1964 056A		882	US	14 SEP	6 OCT 64	
1964 056B		888	US	14 SEP	22 SEP 64	
1964 057A	SATURN 7	883	US	18 SEP	22 SEP 64	
1964 058A		884	US	23 SEP	28 SEP 64	
1964 058B		887	US	23 SEP	26 SEP 64	
1964 059A	COSMOS 46	885	USSR	24 SEP	2 OCT 64	
1964 059B		886	USSR	24 SEP	7 OCT 64	
1964 060A	EXPLORER 21	889	US	4 OCT	30 JAN 66	
1964 061A		890	US	5 OCT	26 OCT 64	
1964 062A	COSMOS 47	891	USSR	6 OCT	7 OCT 64	
1964 062B		892	USSR	6 OCT	13-14 OCT 64	
1964 062C		894	USSR	6 OCT	9 OCT 64	
1964 062D		895	USSR	6 OCT	12 OCT 64	
1964 062E		896	USSR	6 OCT	9 OCT 64	
1964 065A	VOSKHOD 1	904	USSR	12 OCT	13 OCT 64	
1964 065B		905	USSR	12 OCT	20 OCT 64	
1964 065C		906	USSR	12 OCT	13 OCT 64	
1964 065A	COSMOS 48	908	USSR	14 OCT	20 OCT 64	
1964 066B		909	USSR	14 OCT	28 OCT 64	
1964 066C		910	USSR	14 OCT	16 OCT 64	
1964 067A		911	US	17 OCT	4 NOV 64	
1964 068A		912	US	23 OCT	28 OCT 64	
1964 068B		914	US	23 OCT	23 FEB 65	
1964 068C		916	US	23 OCT	3-4 NOV 64	
1964 068D		918	US	23 OCT	29 OCT 64	
1964 069A	COSMOS 49	913	USSR	24 OCT	21 AUG 65	
1964 069B		917	USSR	24 OCT	17 NOV 64	
1964 069C		915	USSR	24 OCT	10 FEB 65	
1964 070A	COSMOS 50	919	USSR	28 OCT	5 NOV 64	
1964 070B		920	USSR	28 OCT	2 NOV 64	J*
1964 070C		928	USSR	28 OCT	13 NOV 64	
1964 070D		929	USSR	28 OCT	15 NOV 64	
1964 070E		989	USSR	28 OCT	13 NOV 64	
1964 070F		990	USSR	28 OCT	11 NOV 64	
1964 070G		991	USSR	28 OCT	8 NOV 64	
1964 070H		992	USSR	28 OCT	13 NOV 64	
1964 070J		993	USSR	28 OCT	12 NOV 64	
1964 070K		994	USSR	28 OCT	13 NOV 64	
1964 070L		995	USSR	28 OCT	11 NOV 64	
1964 070M		996	USSR	28 OCT	12 NOV 64	
1964 070N		997	USSR	28 OCT	14 NOV 64	
1964 070P		998	USSR	28 OCT	10 NOV 64	
1964 070Q		999	USSR	28 OCT	12 NOV 64	
1964 070R		1003	USSR	28 OCT	11 NOV 64	
1964 070S		1004	USSR	28 OCT	14 NOV 64	
1964 070T		1005	USSR	28 OCT	12 NOV 64	

DECAYED OBJECTS

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964 LAUNCHES (CONT.)						
1964 070U		1006	USSR	28 OCT	12 NOV 64	
1964 070V		1007	USSR	28 OCT	12 NOV 64	
1964 070W		1008	USSR	28 OCT	12 NOV 64	
1964 070X		1009	USSR	28 OCT	13 NOV 64	
1964 070Y		1010	USSR	28 OCT	13 NOV 64	
1964 070Z		1011	USSR	28 OCT	9 NOV 64	
1964 070AA		1012	USSR	28 OCT	10 NOV 64	
1964 070AB		1013	USSR	28 OCT	9 NOV 64	
1964 070AC		1014	USSR	28 OCT	17 NOV 64	
1964 070AD		1015	USSR	28 OCT	12 NOV 64	
1964 070AE		1016	USSR	28 OCT	13 NOV 64	
1964 070AF		1017	USSR	28 OCT	11 NOV 64	
1964 070AG		1018	USSR	28 OCT	13 NOV 64	
1964 070AH		1019	USSR	28 OCT	11 NOV 64	
1964 070AJ		1020	USSR	28 OCT	14 NOV 64	
1964 070AK		1021	USSR	28 OCT	13 NOV 64	
1964 070AL		1022	USSR	28 OCT	12 NOV 64	
1964 070AM		1023	USSR	28 OCT	12 NOV 64	
1964 070AN		1024	USSR	28 OCT	14 NOV 64	
1964 070AP		1025	USSR	28 OCT	13 NOV 64	
1964 070AQ		1026	USSR	28 OCT	12 NOV 64	
1964 070AR		1027	USSR	28 OCT	12 NOV 64	
1964 070AS		1028	USSR	28 OCT	13 NOV 64	
1964 070AT		1029	USSR	28 OCT	12 NOV 64	
1964 070AU		1030	USSR	28 OCT	13 NOV 64	
1964 070AV		1031	USSR	28 OCT	13 NOV 64	
1964 070AW		1032	USSR	28 OCT	16 NOV 64	
1964 070AX		1033	USSR	28 OCT	10 NOV 64	
1964 070AY		1034	USSR	28 OCT	9 NOV 64	
1964 070AZ		1035	USSR	28 OCT	13 NOV 64	
1964 070BA		1036	USSR	28 OCT	12 NOV 64	
1964 070BB		1037	USSR	28 OCT	12 NOV 64	
1964 070BC		1038	USSR	28 OCT	15 NOV 64	
1964 070BD		1039	USSR	28 OCT	13 NOV 64	
1964 070BE		1040	USSR	28 OCT	13 NOV 64	
1964 070BF		1041	USSR	28 OCT	12 NOV 64	
1964 070BG		1042	USSR	28 OCT	13 NOV 64	
1964 070BH		1043	USSR	28 OCT	12 NOV 64	
1964 070BJ		1044	USSR	28 OCT	17 NOV 64	
1964 070BK		1045	USSR	28 OCT	17 NOV 64	
1964 070BL		1046	USSR	28 OCT	12 NOV 64	
1964 070BM		1047	USSR	28 OCT	11 NOV 64	
1964 070BN		1048	USSR	28 OCT	14 NOV 64	
1964 070BP		1049	USSR	28 OCT	15 NOV 64	
1964 070BQ		1050	USSR	28 OCT	14 NOV 64	
1964 070BR		1051	USSR	28 OCT	12 NOV 64	
1964 070BS		1052	USSR	28 OCT	13 NOV 64	
1964 070BT		1053	USSR	28 OCT	13 NOV 64	
1964 070BU		1054	USSR	28 OCT	13 NOV 64	
1964 070BV		1055	USSR	28 OCT	11 NOV 64	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964 LAUNCHES (CONT.)						
1964 070BW		1056	USSR	28 OCT	13 NOV 64	
1964 070BX		1057	USSR	28 OCT	12 NOV 64	
1964 070BY		1058	USSR	28 OCT	13 NOV 64	
1964 070BZ		1059	USSR	28 OCT	11 NOV 64	
1964 070CA		1060	USSR	28 OCT	10 NOV 64	
1964 070CB		1061	USSR	28 OCT	9 NOV 64	
1964 070CC		1062	USSR	28 OCT	16 NOV 64	
1964 070CD		1063	USSR	28 OCT	11 NOV 64	
1964 070CE		1064	USSR	28 OCT	15 NOV 64	
1964 070CF		1065	USSR	28 OCT	17 NOV 64	
1964 070CG		1066	USSR	28 OCT	11 NOV 64	
1964 070CH		1067	USSR	28 OCT	17 NOV 64	
1964 070CJ		1068	USSR	28 OCT	14 NOV 64	
1964 070CK		1069	USSR	28 OCT	16 NOV 64	
1964 070CL		1070	USSR	28 OCT	13 NOV 64	
1964 070CM		1071	USSR	28 OCT	12 NOV 64	
1964 070CN		1072	USSR	28 OCT	10 NOV 64	
1964 070CP		1073	USSR	28 OCT	12 NOV 64	
1964 070CQ		1074	USSR	28 OCT	13 NOV 64	
1964 070CR		1075	USSR	28 OCT	13 NOV 64	
1964 070CS		1076	USSR	28 OCT	13 NOV 64	
1964 070CT		1077	USSR	28 OCT	14 NOV 64	
1964 070CU		1078	USSR	28 OCT	12 NOV 64	
1964 070CV		1079	USSR	28 OCT	12 NOV 64	
1964 070CW		1080	USSR	28 OCT	17 NOV 64	
1964 070CX		1081	USSR	28 OCT	11 NOV 64	
1964 070CY		1082	USSR	28 OCT	11 NOV 64	
1964 070CZ		1083	USSR	28 OCT	11 NOV 64	
1964 070DA		1084	USSR	28 OCT	11 NOV 64	
1964 071A		921	US	2 NOV	28 NOV 64	
1964 072A		922	US	4 NOV	5 NOV 69	
1964 072B		925	US	4 NOV	2 OCT 67	
1964 072C		926	US	4 NOV	30 JUN 66	
1964 072D		927	US	4 NOV	30 JUN 66	
1964 074A	EXPLORER 23	924	US	6 NOV	29 JUN 83	
1964 074B		3747	US	6 NOV	13 JUN 73	
1964 074C		4019	US	6 NOV	15 JUL 69	
1964 074D		6731	US	6 NOV	2 JAN 74	
1964 074E		6732	US	6 NOV	29 MAY 74	
1964 075A		930	US	18 NOV	6 DEC 64	
1964 076A	EXPLORER 24	931	US	21 NOV	18 OCT 68	
1964 076D		934	US	21 NOV	2 OCT 82	
1964 076E		935	US	21 NOV	28 MAY 84	
1964 076F		936	US	21 NOV	3 APR 68	
1964 076G		937	US	21 NOV	19 APR 81	
1964 076H		939	US	21 NOV	30 APR 68	
1964 076J		941	US	21 NOV	22 FEB 79	
1964 076L		1411	US	21 NOV	5 MAR 68	
1964 076M		4079	US	21 NOV	21 OCT 71	
1964 076N		940	US	21 NOV	13 MAR 81	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964 LAUNCHES (CONT.)						
1964 078A		943	USSR	30 NOV	1 DEC 64	
1964 078B		944	USSR	30 NOV	2 DEC 64	
1964 079A		946	US	4 DEC	5 DEC 64	
1964 080A	COSMOS 51	947	USSR	9 DEC	14 NOV 65	
1964 080B		948	USSR	9 DEC	11 MAY 65	
1964 080C		950	USSR	9 DEC	29 DEC 64	
1964 080D		952	USSR	9 DEC	1 JAN 65	
1964 080E		954	USSR	9 DEC	1 JAN 65	
1964 080F		955	USSR	9 DEC	2 JAN 65	
1964 081A		949	US	10 DEC	13 DEC 64	
1964 082A	CENTAUR 4	951	US	11 DEC	12 DEC 64	
1964 083E		966	US	13 DEC	10 JUN 82	
1964 083H		1528	US	13 DEC	7 JAN 80	
1964 083K		2798	US	13 DEC	24 SEP 80	
1964 083L		5444	US	13 DEC	18 JAN 79	
1964 083M		5540	US	13 DEC	20 FEB 79	
1964 084A	SAN MARCO 1	957	ITALY	15 DEC	13 SEP 65	
1964 084B		958	US	15 DEC	6-7 FEB 65	
1964 084C		962	US	15 DEC	21 JAN 65	
1964 085A		961	US	19 DEC	14 JAN 65	
1964 086B		4925	US	21 DEC	21 DEC 83	
1964 086B		5820	US	21 DEC	1 FEB 72	
1964 086C		4926	US	21 DEC	7 MAY 82	
1964 087A		964	US	21 DEC	11 JAN 65	
1965 LAUNCHES						
1965 001A	COSMOS 52	968	USSR	11 JAN	19 JAN 65	
1965 001B		969	USSR	11 JAN	29 JAN 65	
1965 001C		970	USSR	11 JAN	13-14 JAN 65	
1965 001D		971	USSR	11 JAN	13-14 JAN 65	
1965 002A		972	US	15 JAN	9 FEB 65	
1965 002B		982	US	15 JAN	30 JAN 65	
1965 003A		973	US	19 JAN	13 JUL 79	
1965 003B		974	US	19 JAN	17 JUN 65	
1965 003C		975	US	19 JAN	9 JUL 65	
1965 005A		980	US	23 JAN	28-29 JAN 65	
1965 005B		981	US	23 JAN	25 JAN 65	
1965 006A	COSMOS 53	983	USSR	30 JAN	12 AUG 66	
1965 006B		984	USSR	30 JAN	11 JAN 66	
1965 006C		985	USSR	30 JAN	4-5 MAR 65	
1965 006D		986	USSR	30 JAN	4 MAR 65	
1965 007B		988	US	3 FEB	11 SEP 77	
1965 009A	PEGASUS 1	1085	US	16 FEB	17 SEP 78	
1965 010A	RANGER 8	1086	US	17 FEB	20 FEB 65	G*
1965 011A	COSMOS 54	1089	USSR	21 FEB	15 SEP 68	
1965 011B	COSMOS 55	1090	USSR	21 FEB	2 FEB 68	
1965 011C	COSMOS 56	1091	USSR	21 FEB	2 NOV 67	
1965 011D		1092	USSR	21 FEB	23 DEC 69	
1965 011E		1094	USSR	21 FEB	8 APR 66	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 012A	COSMOS 57	1093	USSR	22 FEB	22 FEB 65	
1965 012B		1095	USSR	22 FEB	5 MAR 65	K*
1965 012C		1100	USSR	22 FEB	9 MAR 65	
1965 012D		1101	USSR	22 FEB	25 FEB 65	
1965 012E		1102	USSR	22 FEB	26 FEB 65	
1965 012F		1103	USSR	22 FEB	2 MAR 65	
1965 012G		1104	USSR	22 FEB	10 MAR 65	
1965 012H		1105	USSR	22 FEB	25 FEB 65	
1965 012J		1106	USSR	22 FEB	2 MAR 65	
1965 012K		1107	USSR	22 FEB	25 MAR 65	
1965 012L		1108	USSR	22 FEB	1 MAR 65	
1965 012M		1109	USSR	22 FEB	26 FEB 65	
1965 012N		1110	USSR	22 FEB	27 FEB 65	
1965 012P		1111	USSR	22 FEB	2 MAR 65	
1965 012Q		1112	USSR	22 FEB	1 MAR 65	
1965 012R		1113	USSR	22 FEB	25 FEB 65	
1965 012S		1114	USSR	22 FEB	3 MAR 65	
1965 012T		1115	USSR	22 FEB	27 FEB 65	
1965 012U		1116	USSR	22 FEB	4 MAR 65	
1965 012V		1117	USSR	22 FEB	2 MAR 65	
1965 012W		1118	USSR	22 FEB	1 MAR 65	
1965 012X		1119	USSR	22 FEB	1 MAR 65	
1965 012Y		1120	USSR	22 FEB	2 MAR 65	
1965 012Z		1121	USSR	22 FEB	1 MAR 65	
1965 012AA		1122	USSR	22 FEB	1 MAR 65	
1965 012AB		1123	USSR	22 FEB	27 FEB 65	
1965 012AC		1124	USSR	22 FEB	2 MAR 65	
1965 012AD		1125	USSR	22 FEB	2 MAR 65	
1965 012AE		1126	USSR	22 FEB	1 MAR 65	
1965 012AF		1127	USSR	22 FEB	28 FEB 65	
1965 012AG		1128	USSR	22 FEB	5 MAR 65	
1965 012AH		1129	USSR	22 FEB	5 MAR 65	
1965 012AJ		1130	USSR	22 FEB	11 MAR 65	
1965 012AK		1131	USSR	22 FEB	7 MAR 65	
1965 012AL		1132	USSR	22 FEB	7 MAR 65	
1965 012AM		1133	USSR	22 FEB	21 MAR 65	
1965 012AN		1134	USSR	22 FEB	19 MAR 65	
1965 012AP		1135	USSR	22 FEB	13 MAR 65	
1965 012AQ		1136	USSR	22 FEB	17 MAR 65	
1965 012AR		1137	USSR	22 FEB	9 MAR 65	
1965 012AS		1138	USSR	22 FEB	8 MAR 65	
1965 012AT		1139	USSR	22 FEB	10 MAR 65	
1965 012AU		1140	USSR	22 FEB	25 MAR 65	
1965 012AV		1141	USSR	22 FEB	10 MAR 65	
1965 012AW		1142	USSR	22 FEB	14 MAR 65	
1965 012AX		1143	USSR	22 FEB	20 MAR 65	
1965 012AY		1144	USSR	22 FEB	21 MAR 65	
1965 012AZ		1145	USSR	22 FEB	21 MAR 65	
1965 012BA		1146	USSR	22 FEB	17 MAR 65	
1965 012BB		1147	USSR	22 FEB	16 MAR 65	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 012BC		1148	USSR	22 FEB	11 MAR 65	
1965 012BD		1149	USSR	22 FEB	19 MAR 65	
1965 012BE		1150	USSR	22 FEB	17 MAR 65	
1965 012BF		1151	USSR	22 FEB	10 MAR 65	
1965 012BG		1152	USSR	22 FEB	16 MAR 65	
1965 012BH		1153	USSR	22 FEB	7 MAR 65	
1965 012BJ		1154	USSR	22 FEB	7 MAR 65	
1965 012BK		1155	USSR	22 FEB	7 MAR 65	
1965 012BL		1156	USSR	22 FEB	18 MAR 65	
1965 012BM		1157	USSR	22 FEB	13 MAR 65	
1965 012BN		1158	USSR	22 FEB	4 MAR 65	
1965 012BP		1159	USSR	22 FEB	18 MAR 65	
1965 012BQ		1160	USSR	22 FEB	4 MAR 65	
1965 012BR		1161	USSR	22 FEB	5 MAR 65	
1965 012BS		1162	USSR	22 FEB	25 MAR 65	
1965 012BT		1163	USSR	22 FEB	5 MAR 65	
1965 012BU		1164	USSR	22 FEB	13 MAR 65	
1965 012BV		1165	USSR	22 FEB	9 MAR 65	
1965 012BW		1166	USSR	22 FEB	7 MAR 65	
1965 012BX		1167	USSR	22 FEB	20 MAR 65	
1965 012BY		1168	USSR	22 FEB	6 MAR 65	
1965 012BZ		1169	USSR	22 FEB	5 MAR 65	
1965 012CA		1170	USSR	22 FEB	4 MAR 65	
1965 012CB		1171	USSR	22 FEB	5 MAR 65	
1965 012CC		1172	USSR	22 FEB	5 MAR 65	
1965 012CD		1173	USSR	22 FEB	4 MAR 65	
1965 012CE		1174	USSR	22 FEB	22 MAR 65	
1965 012CF		1175	USSR	22 FEB	5 MAR 65	
1965 012CG		1176	USSR	22 FEB	5 MAR 65	
1965 012CH		1177	USSR	22 FEB	27 MAR 65	
1965 012CJ		1178	USSR	22 FEB	5 MAR 65	
1965 012CK		1179	USSR	22 FEB	16 MAR 65	
1965 012CL		1180	USSR	22 FEB	4 MAR 65	
1965 012CM		1181	USSR	22 FEB	6 MAR 65	
1965 012CN		1182	USSR	22 FEB	7 MAR 65	
1965 012CP		1183	USSR	22 FEB	8 MAR 65	
1965 012CQ		1184	USSR	22 FEB	7 MAR 65	
1965 012CR		1185	USSR	22 FEB	11 MAR 65	
1965 012CS		1186	USSR	22 FEB	1 MAR 65	
1965 012CT		1187	USSR	22 FEB	1 MAR 65	
1965 012CU		1188	USSR	22 FEB	1 MAR 65	
1965 012CV		1189	USSR	22 FEB	1 MAR 65	
1965 012CW		1190	USSR	22 FEB	1 MAR 65	
1965 012CX		1194	USSR	22 FEB	16 MAR 65	
1965 012CY		1195	USSR	22 FEB	9 MAR 65	
1965 012CZ		1196	USSR	22 FEB	9 MAR 65	
1965 012DA		1197	USSR	22 FEB	21 MAR 65	
1965 012DB		1198	USSR	22 FEB	4 MAR 65	
1965 012DC		1199	USSR	22 FEB	17 MAR 65	
1965 012DD		1200	USSR	22 FEB	11 MAR 65	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 012DE		1201	USSR	22 FEB	4 MAR 65	
1965 012DF		1202	USSR	22 FEB	9 MAR 65	
1965 012DG		1203	USSR	22 FEB	14 MAR 65	
1965 012DH		1204	USSR	22 FEB	15 MAR 65	
1965 012DJ		1205	USSR	22 FEB	16 MAR 65	
1965 012DK		1206	USSR	22 FEB	9 MAR 65	
1965 012DL		1209	USSR	22 FEB	11 MAR 65	
1965 012DM		1210	USSR	22 FEB	4 MAR 65	
1965 012DN		1211	USSR	22 FEB	16 MAR 65	
1965 012DP		1212	USSR	22 FEB	12 MAR 65	
1965 012DQ		1213	USSR	22 FEB	14 MAR 65	
1965 012DR		1214	USSR	22 FEB	20 MAR 65	
1965 012DS		1215	USSR	22 FEB	16 MAR 65	
1965 012DT		1216	USSR	22 FEB	17 MAR 65	
1965 012DU		1217	USSR	22 FEB	28 MAR 65	
1965 012DV		1218	USSR	22 FEB	20 MAR 65	
1965 012DW		1219	USSR	22 FEB	14 MAR 65	
1965 012DX		1220	USSR	22 FEB	12 MAR 65	
1965 012DY		1221	USSR	22 FEB	18 MAR 65	
1965 012DZ		1222	USSR	22 FEB	12 MAR 65	
1965 012EA		1223	USSR	22 FEB	31 MAR 65	
1965 012EB		1224	USSR	22 FEB	16 MAR 65	
1965 012EC		1225	USSR	22 FEB	14 MAR 65	
1965 012ED		1226	USSR	22 FEB	18 MAR 65	
1965 012EE		1227	USSR	22 FEB	11 MAR 65	
1965 012EF		1229	USSR	22 FEB	29 MAR 65	
1965 012EG		1230	USSR	23 FEB	13 MAR 65	
1965 012EH		1231	USSR	23 FEB	17 MAR 65	
1965 012EJ		1232	USSR	23 FEB	24 MAR 65	
1965 012EK		1233	USSR	23 FEB	20 MAR 65	
1965 012EL		1234	USSR	23 FEB	20 MAR 65	
1965 012EM		1235	USSR	23 FEB	17 MAR 65	
1965 012EN		1236	USSR	23 FEB	17 MAR 65	
1965 012EP		1237	USSR	23 FEB	20 MAR 65	
1965 012EQ		1238	USSR	23 FEB	17 MAR 65	
1965 012ER		1239	USSR	23 FEB	29 MAR 65	
1965 012ES		1240	USSR	23 FEB	17 MAR 65	
1965 012ET		1241	USSR	23 FEB	17 MAR 65	
1965 012EU		1242	USSR	23 FEB	24 MAR 65	
1965 012EV		1243	USSR	23 FEB	17 MAR 65	
1965 012EW		1254	USSR	23 FEB	12 MAR 65	
1965 012EX		1255	USSR	23 FEB	20 MAR 65	
1965 012EY		1256	USSR	23 FEB	21 MAR 65	
1965 012EZ		1257	USSR	23 FEB	21 MAR 65	
1965 012FA		1258	USSR	23 FEB	17 MAR 65	
1965 012FB		1261	USSR	23 FEB	6 APR 65	
1965 012FC		1262	USSR	23 FEB	15 MAR 65	
1965 012FD		1263	USSR	23 FEB	21 MAR 65	
1965 012FE		1264	USSR	23 FEB	26 MAR 65	
1965 012FF		1265	USSR	23 FEB	15 MAR 65	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 012FG		1266	USSR	23 FEB	6 MAR 65	
1965 012FH		1275	USSR	23 FEB	21 MAR 65	
1965 012FJ		1276	USSR	23 FEB	20 MAR 65	
1965 012FK		1277	USSR	23 FEB	20 MAR 65	
1965 012FL		1278	USSR	23 FEB	22 MAR 65	
1965 012FM		1279	USSR	23 FEB	31 MAR 65	
1965 012FN		1280	USSR	23 FEB	24 MAR 65	
1965 012FP		1281	USSR	23 FEB	19 MAR 65	
1965 012FQ		1282	USSR	23 FEB	21 MAR 65	
1965 012FR		1283	USSR	23 FEB	23 MAR 65	
1965 012FS		1284	USSR	23 FEB	19 MAR 65	
1965 012FT		1295	USSR	23 FEB	20 MAR 65	
1965 012FU		1296	USSR	23 FEB	15 MAR 65	
1965 012FV		1297	USSR	23 FEB	22 MAR 65	
1965 012FW		1299	USSR	23 FEB	20 MAR 65	
1965 012FX		1300	USSR	23 FEB	23 MAR 65	
1965 012FY		1304	USSR	23 FEB	28 MAR 65	
1965 012FZ		1309	USSR	23 FEB	28 MAR 65	
1965 013A		1096	US	25 FEB	18 MAR 65	
1965 013B		1193	US	25 FEB	10-11 MAR 65	
1965 015A	COSMOS 59	1191	USSR	7 MAR	15 MAR 65	
1965 015B		1192	USSR	7 MAR	19 MAR 65	
1965 015C		1207	USSR	7 MAR	10-11 MAR 65	
1965 016G	SURCAL	1310	US	9 MAR	27 MAR 81	
1965 017A	NNSS 30030	1303	US	11 MAR	14 JUN 65	
1965 017B	SECOR (EGRS) 2	1250	US	11 MAR	26 FEB 68	
1965 017C		1228	US	11 MAR	4 SEP 67	
1965 017D		1248	US	11 MAR	29 JUL 67	
1965 017E		1251	US	11 MAR	1 AUG 65	
1965 017F		1249	US	11 MAR	10 SEP 65	
1965 017G		1319	US	11 MAR	28 JUN 65	
1965 017H		1323	US	11 MAR	23 DEC 65	
1965 018A	COSMOS 60	1246	USSR	12 MAR	17 MAR 65	
1965 018B		1252	USSR	12 MAR	16-17 MAR 65	
1965 018C		1253	USSR	12 MAR	15 MAR 65	
1965 019A		1247	US	12 MAR	17 MAR 65	
1965 019B		1259	US	12 MAR	16 MAR 65	
1965 019C		1260	US	12 MAR	21 MAR 65	
1965 020A	COSMOS 61	1267	USSR	15 MAR	15 JAN 68	
1965 020B	COSMOS 62	1268	USSR	15 MAR	24 SEP 68	
1965 020C	COSMOS 63	1269	USSR	15 MAR	4 NOV 67	
1965 020D		1270	USSR	15 MAR	5 AUG 66	L*
1965 020F		1336	USSR	15 MAR	24 JUL 68	
1965 020G		1337	USSR	15 MAR	29 SEP 66	
1965 020H		1338	USSR	15 MAR	30 APR 67	
1965 020J		1339	USSR	15 MAR	14 OCT 69	
1965 020K		1340	USSR	15 MAR	30 MAY 68	
1965 020L		1341	USSR	15 MAR	13 FEB 69	
1965 020M		1342	USSR	15 MAR	9 SEP 69	
1965 020N		1343	USSR	15 MAR	20 DEC 66	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 020P		1344	USSR	15 MAR	14 NOV 69	
1965 020R		1346	USSR	15 MAR	18 MAY 75	
1965 020T		1348	USSR	15 MAR	15 NOV 81	
1965 020U		1349	USSR	15 MAR	9 APR 79	
1965 020V		1350	USSR	15 MAR	19 DEC 65	
1965 020W		1351	USSR	15 MAR	6 AUG 72	
1965 020X		1352	USSR	15 MAR	3 JUL 67	
1965 020Y		1353	USSR	15 MAR	30 JAN 66	
1965 020Z		1354	USSR	15 MAR	15 MAY 68	
1965 020AA		1355	USSR	15 MAR	9 OCT 66	
1965 020AB		1356	USSR	15 MAR	14 AUG 65	
1965 020AD		1371	USSR	15 MAR	26 SEP 80	
1965 020AF		1373	USSR	15 MAR	4 FEB 79	
1965 020AG		1375	USSR	15 MAR	14 OCT 65	
1965 020AJ		1397	USSR	15 MAR	6 APR 68	
1965 020AK		1398	USSR	15 MAR	25 JUN 70	
1965 020AL		1400	USSR	15 MAR	5 OCT 65	
1965 020AM		1401	USSR	15 MAR	20 MAR 66	
1965 020AN		1402	USSR	15 MAR	5 MAY 67	
1965 020AP		1403	USSR	15 MAR	3 DEC 65	
1965 020AQ		1409	USSR	15 MAR	19 MAY 66	
1965 020AR		1410	USSR	15 MAR	17 FEB 67	
1965 020AS		1416	USSR	15 MAR	5 MAY 67	
1965 020AT		1417	USSR	15 MAR	9 SEP 65	
1965 020AU		1418	USSR	15 MAR	10 AUG 65	
1965 020AV		1419	USSR	15 MAR	1 SEP 66	
1965 020AW		1436	USSR	15 MAR	20 MAY 65	
1965 020AX		1437	USSR	15 MAR	28 OCT 65	
1965 020AY		1438	USSR	15 MAR	3 NOV 80	
1965 020AZ		1439	USSR	15 MAR	16 JAN 79	
1965 020BA		1476	USSR	15 MAR	21 SEP 67	
1965 020BF		1481	USSR	15 MAR	23 MAY 79	
1965 020BG		1482	USSR	15 MAR	9 JAN 66	
1965 020BH		1483	USSR	15 MAR	27 FEB 68	
1965 020BJ		1484	USSR	15 MAR	24 OCT 68	
1965 020BK		1485	USSR	15 MAR	15 APR 68	
1965 020BL		1486	USSR	15 MAR	10 JUN 67	
1965 020BM		1487	USSR	15 MAR	18 APR 67	
1965 020BN		1488	USSR	15 MAR	14 NOV 67	
1965 020BP		1489	USSR	15 MAR	26 OCT 66	
1965 020BQ		1490	USSR	15 MAR	3 JAN 66	
1965 020BR		1491	USSR	15 MAR	10 SEP 68	
1965 020BS		1492	USSR	15 MAR	23 NOV 65	
1965 020BT		1493	USSR	15 MAR	4 NOV 66	
1965 020BU		1494	USSR	15 MAR	4 SEP 65	
1965 020BW		1496	USSR	15 MAR	15 SEP 66	
1965 020BX		1497	USSR	15 MAR	28 MAY 67	
1965 020BY		1498	USSR	15 MAR	6 MAY 66	
1965 020BZ		1499	USSR	15 MAR	7 SEP 66	
1965 020CA		1530	USSR	15 MAR	4 JUL 69	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 020CB		1531	USSR	15 MAR	5 MAR 67	
1965 020CC		1532	USSR	15 MAR	11 JAN 66	
1965 020CD		1533	USSR	15 MAR	27 DEC 65	
1965 020CE		1534	USSR	15 MAR	5 MAY 71	
1965 020CF		1535	USSR	15 MAR	14 DEC 65	
1965 020CG		1536	USSR	15 MAR	26 APR 66	
1965 020CH		1537	USSR	15 MAR	17 AUG 66	
1965 020CJ		1538	USSR	15 MAR	3 DEC 74	
1965 020CK		1539	USSR	15 MAR	26 SEP 66	
1965 020CL		1540	USSR	15 MAR	27 FEB 68	
1965 020CM		1541	USSR	15 MAR	20 MAR 66	
1965 020CN		1542	USSR	15 MAR	31 JUL 66	
1965 020CP		1543	USSR	15 MAR	19 SEP 68	
1965 020CQ		1544	USSR	15 MAR	22 FEB 67	
1965 020CR		1545	USSR	15 MAR	24 JAN 66	
1965 020CS		1546	USSR	15 MAR	16 AUG 66	
1965 020CT		1547	USSR	15 MAR	24 JUL 66	
1965 020CU		1548	USSR	15 MAR	27 MAY 78	
1965 020CW		1550	USSR	15 MAR	8 JUL 70	
1965 020CX		1551	USSR	15 MAR	19 DEC 69	
1965 020CY		1552	USSR	15 MAR	20 MAR 67	
1965 020CZ		1553	USSR	15 MAR	23 JUL 66	
1965 020DA		1554	USSR	15 MAR	6 JAN 67	
1965 020DB		1555	USSR	15 MAR	12 FEB 68	
1965 020DC		1556	USSR	15 MAR	2 MAY 67	
1965 020DD		1557	USSR	15 MAR	12 FEB 67	
1965 020DE		1558	USSR	15 MAR	12 JUN 68	
1965 020DF		1559	USSR	15 MAR	18 APR 67	
1965 020DG		1560	USSR	15 MAR	13 OCT 65	
1965 020DH		1561	USSR	15 MAR	12 APR 67	
1965 020DJ		1562	USSR	15 MAR	22 FEB 66	
1965 020DK		1563	USSR	15 MAR	28 OCT 69	
1965 020DL		1564	USSR	15 MAR	10 SEP 81	
1965 020DM		1565	USSR	15 MAR	2 FEB 67	
1965 020DN		1566	USSR	15 MAR	8 DEC 79	
1965 020DP		1567	USSR	15 MAR	12 SEP 74	
1965 020DQ		1568	USSR	15 MAR	1 MAY 66	
1965 020DR		1569	USSR	15 MAR	18 JUL 66	
1965 020DS		1592	USSR	15 MAR	27 OCT 70	
1965 020DT		1593	USSR	15 MAR	28 SEP 70	
1965 020DU		1594	USSR	15 MAR	19 DEC 66	
1965 020DV		1595	USSR	15 MAR	6 APR 72	
1965 020DW		1596	USSR	15 MAR	29 OCT 67	
1965 020DY		1598	USSR	15 MAR	12 APR 76	
1965 020DZ		1599	USSR	15 MAR	16 JAN 71	
1965 020EA		1600	USSR	15 MAR	10 MAR 78	
1965 020EB		1601	USSR	15 MAR	17 JAN 67	
1965 020EC		1633	USSR	15 MAR	31 JAN 81	
1965 020EE		1635	USSR	15 MAR	20 OCT 67	
1965 020EF		2203	USSR	15 MAR	20 APR 67	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 020EG		2204	USSR	15 MAR	17 OCT 66	
1965 020EJ		2339	USSR	15 MAR	12 NOV 66	
1965 020EK		2387	USSR	15 MAR	19 OCT 66	
1965 020EL		2537	USSR	15 MAR	19 FEB 67	
1965 020EP		3163	USSR	15 MAR	16 JUL 68	
1965 020EQ		3707	USSR	15 MAR	13 OCT 79	
1965 020EX		3964	USSR	15 MAR	29 OCT 80	
1965 020EZ		4016	USSR	15 MAR	13 APR 81	
1965 020FA		5733	USSR	15 MAR	11 MAR 72	
1965 020FB		5813	USSR	15 MAR	13 FEB 81	
1965 020FC		5983	USSR	15 MAR	9 AUG 72	
1965 020FE		6736	USSR	15 MAR	12 JUL 80	
1965 021B		1268	US	18 MAR	5 OCT 65	
1965 021C		1269	US	18 MAR	6 SEP 79	
1965 021D		1290	US	18 MAR	1 OCT 65	
1965 021E		1376	US	18 MAR	1 JAN 70	
1965 021F		1463	US	18 MAR	18 MAY 79	
1965 022A	VOSKHOD 2	1274	USSR	18 MAR	19 MAR 65	
1965 022B		1285	USSR	18 MAR	27 MAR 65	
1965 022C		1286	USSR	18 MAR	25 MAR 65	
1965 022D		1287	USSR	18 MAR	19 MAR 65	
1965 023A	RANGER 9	1294	US	21 MAR	24 MAR 65	G*
1965 024A	GEMINI 3	1301	US	23 MAR	23 MAR 65	F*
1965 024B		1302	US	23 MAR	24 MAR 65	
1965 025A	COSMOS 64	1305	USSR	25 MAR	2 APR 65	
1965 025B		1306	USSR	25 MAR	4 APR 65	
1965 025C		1308	USSR	25 MAR	26 APR 65	
1965 026A		1307	US	25 MAR	4-5 APR 65	
1965 026B		1311	US	25 MAR	1 APR 65	
1965 029A	COSMOS 65	1320	USSR	17 APR	25 APR 65	
1965 029B		1321	USSR	17 APR	6 MAY 65	
1965 029C		1322	USSR	17 APR	20 APR 65	
1965 030A	MOLNIYA 1-1	1324	USSR	23 APR	16 AUG 79	
1965 030B		1325	USSR	23 APR	20 JUL 65	
1965 030C		1326	USSR	23 APR	2 JUL 65	
1965 030D		1967	USSR	23 APR	4 JUN 79	
1965 031A		1327	US	28 APR	3 MAY 65	
1965 031B		1329	US	28 APR	31 OCT 69	
1965 031C		1331	US	28 APR	30 APR 65	
1965 031D		1332	US	28 APR	30 APR 65	
1965 031E		1333	US	28 APR	3-4 APR 65	
1965 031F		1334	US	28 APR	8 MAY 65	
1965 031G		1357	US	28 APR	18 MAR 66	
1965 033A		1330	US	29 APR	26 MAY 65	
1965 033B		1367	US	29 APR	8 JUN 65	
1965 035A	COSMOS 66	1362	USSR	7 MAY	15 MAY 65	
1965 035B		1363	USSR	7 MAY	24 MAY 65	
1965 035C		1364	USSR	7 MAY	9 MAY 65	
1965 035D		1365	USSR	7 MAY	9 MAY 65	
1965 036A	LUNA 5	1366	USSR	9 MAY	12 MAY 65	A*

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 036B		1368	USSR	9 MAY	10 MAY 65	
1965 036C		1369	USSR	9 MAY	10 MAY 65	
1965 037A		1374	US	18 MAY	15-16 JUN 65	
1965 037B		1415	US	18 MAY	2 JUN 65	
1965 038C		1379	US	20 MAY	7 APR 83	
1965 038D		1380	US	20 MAY	2 MAY 66	
1965 038F		1462	US	20 MAY	23 APR 80	
1965 039A	PEGASUS 2	1381	US	25 MAY	3 NOV 79	
1965 040A	COSMOS 67	1382	USSR	25 MAY	2 JUN 65	
1965 040B		1383	USSR	25 MAY	4 JUN 65	
1965 040C		1384	USSR	25 MAY	30-31 MAY 65	
1965 040D		1387	USSR	25 MAY	30-31 MAY 65	
1965 041A		1386	US	27 MAY	1 JUN 65	
1965 042A	EXPLORER 28	1388	US	29 MAY	4 JUL 68	
1965 043A	GEMINI 4	1390	US	3 JUN	7 JUN 65	F*
1965 043B		1391	US	3 JUN	5 JUN 65	
1965 044B		1394	USSR	8 JUN	12 JUN 65	
1965 044C		1395	USSR	8 JUN	10 JUN 65	
1965 045A		1396	US	9 JUN	22 JUN 65	
1965 045B		1414	US	9 JUN	20 JUN 65	
1965 046A	COSMOS 68	1404	USSR	15 JUN	23 JUN 65	
1965 046B		1405	USSR	15 JUN	7 JUL 65	
1965 046C		1406	USSR	15 JUN	20 JUN 65	
1965 046D		1407	USSR	15 JUN	19 JUN 65	
1965 046E		1408	USSR	15 JUN	19 JUN 65	
1965 047A		1412	US	18 JUN	29 JUN 65	
1965 047B		1413	US	18 JUN	21 JUN 65	
1965 048J		12516	US	24 JUN	4 DEC 81	
1965 048K		12582	US	24 JUN	9 MAR 82	
1965 049A	COSMOS 69	1421	USSR	25 JUN	3 JUL 65	
1965 049B		1423	USSR	25 JUN	6 JUL 65	
1965 049C		1429	USSR	25 JUN	30 JUN 65	
1965 050A		1422	US	25 JUN	22 AUG 68	
1965 050B		1424	US	25 JUN	30 JUN 65	
1965 050C		1426	US	25 JUN	27 JUN 65	
1965 050D		1427	US	25 JUN	26 NOV 65	
1965 052A	COSMOS 70	1431	USSR	2 JUL	18 DEC 66	
1965 052B		1432	USSR	2 JUL	6 JUN 66	
1965 052C		1434	USSR	2 JUL	13 AUG 65	
1965 053A	COSMOS 71	1441	USSR	16 JUL	11 AUG 70	
1965 053B	COSMOS 72	1442	USSR	16 JUL	24 AUG 79	
1965 053C	COSMOS 73	1443	USSR	16 JUL	20 MAR 74	
1965 053D	COSMOS 74	1444	USSR	16 JUL	13 DEC 79	
1965 053E	COSMOS 75	1445	USSR	16 JUL	28 SEP 79	
1965 053F		1448	USSR	16 JUL	21 NOV 81	
1965 053G		1449	USSR	16 JUL	3 MAY 67	
1965 053H		1473	USSR	16 JUL	13 MAR 69	
1965 053J		2338	USSR	16 JUL	12 NOV 67	
1965 054A	PROTON 1	1466	USSR	16 JUL	11 OCT 65	
1965 054B		1451	USSR	16 JUL	18 SEP 65	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 054C		1450	USSR	16 JUL	24 JUL 65	
1965 054D		1446	USSR	16 JUL	31 JUL 65	
1965 055A		1447	US	17 JUL	18 DEC 68	
1965 055B		1452	US	17 JUL	5 JUL 66	
1965 055C		1455	US	17 JUL	24 JUL 66	
1965 055D		1744	US	17 JUL	16 APR 66	
1965 055E		1745	US	17 JUL	23 MAR 66	
1965 056B		1453	USSR	18 JUL	20 JUL 65	
1965 056C		1456	USSR	18 JUL	21 JUL 65	
1965 057A		1457	US	19 JUL	18 AUG 65	
1965 058C	ERS 17	1460	US	20 JUL	1 JUL 68	
1965 059A	COSMOS 76	1464	USSR	23 JUL	16 MAR 66	
1965 059B		1465	USSR	23 JUL	4 DEC 65	
1965 060A	PEGASUS 3	1467	US	30 JUL	4 AUG 69	
1965 060B		1468	US	30 JUL	22 NOV 75	
1965 060C		6841	US	30 JUL	2 OCT 73	
1965 061A	COSMOS 77	1469	USSR	3 AUG	11 AUG 65	
1965 061B		1470	USSR	3 AUG	8 AUG 65	
1965 062A		1471	US	3 AUG	7 AUG 65	
1965 062B		1472	US	3 AUG	17 JUN 68	
1965 062C		1474	US	3 AUG	6 AUG 65	
1965 065M		2335	US	13 AUG	13 APR 81	
1965 065N		3809	US	13 AUG	12 NOV 82	
1965 065R		5363	US	13 AUG	9 NOV 80	
1965 065S		6290	US	13 AUG	2 JUN 81	
1965 066A	COSMOS 78	1505	USSR	14 AUG	22 AUG 65	
1965 066B		1507	USSR	14 AUG	3 SEP 65	
1965 066C		1509	USSR	14 AUG	17 AUG 65	
1965 067A		1513	US	17 AUG	11 OCT 65	
1965 068A	GEMINI 5	1516	US	21 AUG	29 AUG 65	F*
1965 068B		1517	US	21 AUG	24 AUG 65	
1965 068C		1518	US	21 AUG	27 AUG 65	
1965 068D		1519	US	21 AUG	26 AUG 65	
1965 069A	COSMOS 79	1523	USSR	25 AUG	2 SEP 65	
1965 069B		1524	USSR	25 AUG	7 SEP 65	
1965 069C		1525	USSR	25 AUG	26 AUG 65	
1965 069D		1526	USSR	25 AUG	31 AUG 65	
1965 069E		1527	USSR	25 AUG	31 AUG 65	
1965 071A	COSMOS 85	1578	USSR	9 SEP	17 SEP 65	
1965 071B		1579	USSR	9 SEP	18 SEP 65	
1965 072B		1581	US	10 SEP	25 FEB 67	
1965 072C		1582	US	10 SEP	6 APR 67	
1965 074A		1602	US	22 SEP	11 OCT 65	
1965 075A	COSMOS 91	1603	USSR	23 SEP	1 OCT 65	
1965 075B		1604	USSR	23 SEP	4 OCT 65	
1965 075C		1605	USSR	23 SEP	29 SEP 65	
1965 075D		1606	USSR	23 SEP	29 SEP 65	
1965 075E		1607	USSR	23 SEP	29 SEP 65	
1965 076A		1609	US	30 SEP	5 OCT 65	
1965 076B		1614	US	30 SEP	3 OCT 65	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 077A	LUNA 7	1610	USSR	4 OCT	7 OCT 65	A*
1965 077B		1611	USSR	4 OCT	4 OCT 65	
1965 077C		1612	USSR	4 OCT	5 OCT 65	
1965 079A		1615	US	5 OCT	29 OCT 65	
1965 080A	MOLNIYA 1-2	1621	USSR	13 OCT	17 MAR 67	
1965 080B		1619	USSR	13 OCT	8 NOV 65	
1965 080C		1622	USSR	13 OCT	22 OCT 65	
1965 080D		1623	USSR	13 OCT	16 NOV 65	
1965 080E		2735	USSR	13 OCT	18 JAN 67	
1965 081A	OGO 2	1620	US	14 OCT	17 SEP 81	
1965 082A	TITAN 3 C-4	1624	US	15 OCT	27 JUL 72	
1965 082B		1640	US	15 OCT	25 AUG 82	
1965 082F		1644	US	15 OCT	14 AUG 80	
1965 082G		1645	US	15 OCT	4 MAY 79	
1965 082K		1648	US	15 OCT	2 MAR 68	
1965 082L		1649	US	15 OCT	16 OCT 79	
1965 082M		1650	US	15 OCT	18 OCT 79	
1965 082P		1652	US	15 OCT	15 MAR 79	
1965 082R		1654	US	15 OCT	16 OCT 79	
1965 082S		1655	US	15 OCT	19 APR 71	
1965 082T		1656	US	15 OCT	25 NOV 81	
1965 082U		1657	US	15 OCT	17 JUN 70	
1965 082V		1658	US	15 OCT	8 MAY 70	
1965 082W		1659	US	15 OCT	20 NOV 69	
1965 082X		1660	US	15 OCT	23 SEP 69	
1965 082Y		1661	US	15 OCT	15 MAY 71	
1965 082AC		1665	US	15 OCT	28 JAN 81	
1965 082AD		1666	US	15 OCT	16 JUN 79	
1965 082AE		1667	US	15 OCT	2 APR 82	
1965 082AG		1669	US	15 OCT	15 AUG 71	
1965 082AM		1674	US	15 OCT	18 MAR 69	
1965 082AN		1675	US	15 OCT	8 APR 79	
1965 082AR		1678	US	15 OCT	30 MAY 80	
1965 082AS		1679	US	15 OCT	24 MAY 80	
1965 082AW		1683	US	15 OCT	11 JUL 66	
1965 082BB		1688	US	15 OCT	1 MAY 81	
1965 082BC		1689	US	15 OCT	29 DEC 78	
1965 082BD		1690	US	15 OCT	11 JUN 81	
1965 082BE		1691	US	15 OCT	12 MAR 71	
1965 082BF		1692	US	15 OCT	22 SEP 70	
1965 082BH		1694	US	15 OCT	26 OCT 70	
1965 082BK		1696	US	15 OCT	18 JAN 68	
1965 082BL		1697	US	15 OCT	8 JAN 78	
1965 082BM		1698	US	15 OCT	9 MAY 72	
1965 082BN		1699	US	15 OCT	21 NOV 66	
1965 082BP		1700	US	15 OCT	3 APR 70	
1965 082BQ		1709	US	15 OCT	7 APR 82	
1965 082BR		1710	US	15 OCT	1 MAR 73	
1965 082BS		1711	US	15 OCT	20 MAR 71	
1965 082BT		1712	US	15 OCT	16 SEP 81	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 082BU		1713	US	15 OCT	2 JAN 69	
1965 082BV		1714	US	15 OCT	9 AUG 70	
1965 082BY		1717	US	15 OCT	2 FEB 69	
1965 082BZ		1718	US	15 OCT	7 JUN 81	
1965 082CA		1719	US	15 OCT	3 MAR 81	
1965 082CB		1720	US	15 OCT	4 MAR 67	
1965 082CE		1723	US	15 OCT	6 NOV 78	
1965 082CF		1724	US	15 OCT	26 APR 68	
1965 082CH		1746	US	15 OCT	3 MAY 78	
1965 082CJ		1747	US	15 OCT	19 AUG 80	
1965 082CL		1749	US	15 OCT	9 DEC 79	
1965 082CM		1750	US	15 OCT	8 FEB 70	
1965 082CN		1751	US	15 OCT	21 OCT 79	
1965 082CP		1752	US	15 OCT	8 DEC 80	
1965 082CR		1754	US	15 OCT	4 AUG 68	
1965 082CS		1755	US	15 OCT	30 APR 81	
1965 082CU		1757	US	15 OCT	5 MAY 81	
1965 082CV		1758	US	15 OCT	13 JAN 73	
1965 082CW		1759	US	15 OCT	21 OCT 80	
1965 082CX		1760	US	15 OCT	31 MAR 71	
1965 082CZ		1762	US	15 OCT	22 JAN 68	
1965 082DA		1763	US	15 OCT	8 OCT 72	
1965 082DB		1764	US	15 OCT	28 SEP 77	
1965 082DC		1765	US	15 OCT	9 JUN 73	
1965 082DD		1766	US	15 OCT	3 APR 71	
1965 082DE		1767	US	15 OCT	19 FEB 71	
1965 082DF		1768	US	15 OCT	27 NOV 70	
1965 082DG		1769	US	15 OCT	7 NOV 81	
1965 082DH		1770	US	15 OCT	10 SEP 79	
1965 082DJ		1819	US	15 OCT	20 JUN 79	
1965 082DK		1820	US	15 OCT	30 MAR 81	
1965 082DL		1821	US	15 OCT	5 MAY 67	
1965 082DN		1823	US	15 OCT	21 APR 74	
1965 082DP		1824	US	15 OCT	11 JUL 67	
1965 082DR		1826	US	15 OCT	22 MAR 66	
1965 082DS		1827	US	15 OCT	30 DEC 80	
1965 082DT		1828	US	15 OCT	2 JAN 79	
1965 082DW		1831	US	15 OCT	20 NOV 67	
1965 082DZ		1834	US	15 OCT	10 JUL 67	
1965 082EC		1837	US	15 OCT	1 MAY 68	
1965 082EE		1862	US	15 OCT	11 SEP 68	
1965 082EF		1848	US	15 OCT	17 SEP 69	
1965 082EG		1849	US	15 OCT	19 JUL 67	
1965 082EH		1852	US	15 OCT	17 JAN 68	
1965 082EJ		1851	US	15 OCT	29 SEP 66	
1965 082EK		1850	US	15 OCT	22 APR 70	
1965 082EL		1853	US	15 OCT	29 NOV 66	
1965 082EM		1854	US	15 OCT	27 APR 66	
1965 082EN		1855	US	15 OCT	12 SEP 74	
1965 082EP		1856	US	15 OCT	6 FEB 67	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 082ER		1858	US	15 OCT	3 JAN 67	
1965 082ET		1860	US	15 OCT	19 APR 69	
1965 082EU		1879	US	15 OCT	22 MAR 66	
1965 082EV		1880	US	15 OCT	11 SEP 66	
1965 082EX		1882	US	15 OCT	14 JUL 70	
1965 082EA		1885	US	15 OCT	30 JAN 70	
1965 082FB		1886	US	15 OCT	1 MAR 68	
1965 082FC		1887	US	15 OCT	23 MAY 79	
1965 082FD		1888	US	15 OCT	9 MAY 67	
1965 082FE		1889	US	15 OCT	9 JAN 68	
1965 082FF		1890	US	15 OCT	28 MAR 67	
1965 082FG		1891	US	15 OCT	11 MAR 68	
1965 082FH		1892	US	15 OCT	16 APR 67	
1965 082FJ		1893	US	15 OCT	2 NOV 67	
1965 082FK		1894	US	15 OCT	14 SEP 69	
1965 082FL		1895	US	15 OCT	8 SEP 66	
1965 082FM		1896	US	15 OCT	23 SEP 66	
1965 082FN		1897	US	15 OCT	7 FEB 67	
1965 082FQ		1899	US	15 OCT	11 JUL 67	
1965 082FR		1900	US	15 OCT	14 NOV 66	
1965 082FS		1908	US	15 OCT	23 MAR 66	
1965 082FT		1909	US	15 OCT	19 JUL 66	
1965 082FU		1910	US	15 OCT	9 MAY 66	
1965 082FV		1911	US	15 OCT	21 JUN 66	
1965 082FW		1912	US	15 OCT	14 AUG 66	
1965 082FX		1913	US	15 OCT	26 SEP 79	
1965 082FY		1914	US	15 OCT	9 DEC 79	
1965 082GA		1916	US	15 OCT	1 FEB 81	
1965 082GB		1917	US	15 OCT	7 APR 82	
1965 082GC		1918	US	15 OCT	10 NOV 78	
1965 082GD		1919	US	15 OCT	2 DEC 78	
1965 082GE		1920	US	15 OCT	8 FEB 80	
1965 082GF		1921	US	15 OCT	24 FEB 67	
1965 082GG		1922	US	15 OCT	5 MAR 79	
1965 082GH		1923	US	15 OCT	15 JUN 68	
1965 082GJ		1924	US	15 OCT	21 JUN 66	
1965 082GK		1925	US	15 OCT	15 OCT 67	
1965 082GL		1926	US	15 OCT	17 MAY 70	
1965 082GM		1927	US	15 OCT	3 AUG 73	
1965 082GN		1928	US	15 OCT	28 FEB 68	
1965 082GP		1929	US	15 OCT	11 APR 82	
1965 082GQ		1930	US	15 OCT	12 SEP 66	
1965 082GR		1956	US	15 OCT	12 AUG 68	
1965 082GS		1957	US	15 OCT	2 FEB 79	
1965 082GT		1958	US	15 OCT	23 MAY 79	
1965 082GV		1960	US	15 OCT	23 MAR 82	
1965 082HA		1965	US	15 OCT	6 MAR 70	
1965 082HB		1969	US	15 OCT	8 SEP 69	
1965 082HC		1970	US	15 OCT	11 OCT 69	
1965 082HD		1971	US	15 OCT	22 SEP 70	

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INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 082HE		1972	US	15 OCT	2 FEB 67	
1965 082HF		1973	US	15 OCT	5 MAY 81	
1965 082HG		1974	US	15 OCT	5 MAR 81	
1965 082HH		1975	US	15 OCT	23 MAY 81	
1965 082HJ		1976	US	15 OCT	14 APR 82	
1965 082HK		1977	US	15 OCT	14 JUL 82	
1965 082HL		1978	US	15 OCT	9 MAR 80	
1965 082HM		1979	US	15 OCT	7 OCT 67	
1965 082HN		1980	US	15 OCT	25 MAY 69	
1965 082HQ		1984.	US	15 OCT	29 MAR 74	
1965 082HR		1985	US	15 OCT	18 AUG 68	
1965 082HS		1986	US	15 OCT	8 JAN 80	
1965 082HT		1987	US	15 PCT	4 SEP 69	
1965 082HU		1988	US	15 OCT	14 NOV 70	
1965 082HV		1989	US	15 OCT	13 FEB 70	
1965 082HW		1990	US	15 OCT	9 JAN 69	
1965 082HX		1991	US	15 OCT	6 FEB 68	
1965 082HY		1992	US	15 OCT	12 NOV 80	
1965 082HZ		1993	US	15 OCT	30 MAR 80	
1965 082JA		1999	US	15 OCT	20 APR 67	
1965 082JB		2041	US	15 OCT	16 MAR 73	
1965 082JC		2042	US	15 OCT	21 NOV 79	
1965 082JD		2043	US	15 OCT	1 SEP 68	
1965 082JE		2044	US	15 OCT	20 NOV 80	
1965 082JF		2045	US	15 OCT	20 OCT 67	
1965 082JG		2046	US	15 OCT	15 NOV 67	
1965 082JH		2047	US	15 OCT	16 NOV 67	
1965 082JJ		2048	US	15 OCT	27 JAN 67	
1965 082JK		2049	US	15 OCT	14 JAN 70	
1965 082JM		2051	US	15 OCT	16 SEP 81	
1965 082JN		2052	US	15 OCT	26 JUN 72	
1965 082JP		2053	US	15 OCT	27 FEB 73	
1965 082JQ		2054	US	15 OCT	23 JAN 67	
1965 082JR		2055	US	15 OCT	28 JUN 66	
1965 082JT		2080	US	15 OCT	23 SEP 66	
1965 082JU		2081	US	15 OCT	8 NOV 66	
1965 082JV		2082	US	15 OCT	16 JUN 79	
1965 082JX		2084	US	15 OCT	29 AUG 81	
1965 082JY		2100	US	15 OCT	13 DEC 68	
1965 082JZ		2101	US	15 OCT	19 DEC 80	
1965 082KA		2102	US	15 OCT	15 APR 69	
1965 082KB		2103	US	15 OCT	27 NOV 67	
1965 082KC		2158	US	15 OCT	27 OCT 66	
1965 082KD		2333	US	15 OCT	29 SEP 67	
1965 082KE		2340	US	15 OCT	11 JUL 73	
1965 082KF		2384	US	15 OCT	29 SEP 73	
1965 082KH		2390	US	15 OCT	27 OCT 66	
1965 082KJ		2493	US	15 OCT	16 FEB 73	
1965 082KK		2573	US	15 OCT	15 MAR 71	
1965 082KL		2574	US	15 OCT	3 DEC 68	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 082KN		2786	US	15 OCT	12 FEB 79	
1965 082KP		2787	US	15 OCT	19 SEP 80	
1965 082KS		2790	US	15 OCT	13 AUG 82	
1965 082KT		2791	US	15 OCT	29 APR 81	
1965 082KU		2792	US	15 OCT	26 DEC 71	
1965 082KV		2794	US	15 OCT	3 FEB 81	
1965 082KW		2795	US	15 OCT	14 SEP 78	
1965 082KY		2887	US	15 OCT	21 MAR 80	
1965 082KZ		2898	US	15 OCT	27 JUN 71	
1965 082LA		2899	US	15 OCT	6 MAY 79	
1965 082LB		2929	US	15 OCT	23 APR 79	
1965 082LE		2991	US	15 OCT	20 FEB 79	
1965 082LF		2992	US	15 OCT	29 MAR 69	
1965 082LG		3039	US	15 OCT	5 FEB 79	
1965 082LH		3040	US	15 OCT	29 MAR 71	
1965 082LK		3049	US	15 OCT	6 JAN 68	
1965 082LL		3050	US	15 OCT	3 JUL 79	
1965 082LM		3064	US	15 OCT	25 DEC 79	
1965 082LP		3149	US	15 OCT	3 DEC 70	
1965 082LQ		3325	US	15 OCT	17 MAR 69	
1965 082LR		3331	US	15 OCT	1 DEC 79	
1965 082LT		3356	US	15 OCT	7 MAR 79	
1965 082LV		3358	US	15 OCT	27 MAR 82	
1965 082LX		3360	US	15 OCT	11 JUN 72	
1965 082LZ		3362	US	15 OCT	3 DEC 81	
1965 082MA		3363	US	15 OCT	12 APR 82	
1965 082MB		3364	US	15 OCT	30 NOV 80	
1965 082MC		3365	US	15 OCT	9 MAR 80	
1965 082MD		3366	US	15 OCT	13 APR 81	
1965 082ME		3367	US	15 OCT	21 JAN 80	
1965 082MF		3368	US	15 OCT	1 MAR 70	
1965 082MH		3370	US	15 OCT	30 MAR 80	
1965 082MJ		3371	US	15 OCT	10 AUG 82	
1965 082MK		3372	US	15 OCT	1 NOV 78	
1965 082MM		3374	US	15 OCT	10 APR 79	
1965 082MN		3376	US	15 OCT	30 MAY 80	
1965 082MP		3377	US	15 OCT	16 OCT 80	
1965 082MQ		3378	US	15 OCT	17 JAN 79	
1965 082MR		3379	US	15 OCT	30 JUL 79	
1965 082MU		3382	US	15 OCT	6 SEP 78	
1965 082MW		3384	US	15 OCT	18 JUN 81	
1965 082MX		3385	US	15 OCT	12 APR 69	
1965 082NA		3400	US	15 OCT	10 MAR 79	
1965 082NB		3401	US	15 OCT	1 MAR 72	
1965 082NC		3402	US	15 OCT	5 JUL 78	
1965 082ND		3403	US	15 OCT	6 NOV 80	
1965 082NE		3404	US	15 OCT	3 MAR 70	
1965 082NF		3405	US	15 OCT	21 MAY 69	
1965 082NG		3406	US	15 OCT	8 MAY 69	
1965 082NH		3407	US	15 OCT	17 APR 78	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 082NJ		3410	US	15 OCT	5 OCT 73	
1965 082NK		3411	US	15 OCT	6 OCT 80	
1965 082NL		3412	US	15 OCT	14 MAY 70	
1965 082NM		3413	US	15 OCT	8 MAR 69	
1965 082NN		3420	US	15 OCT	13 APR 81	
1965 082NP		3421	US	15 OCT	13 JAN 69	
1965 082NQ		3422	US	15 OCT	24 SEP 69	
1965 082NR		3423	US	15 OCT	13 JUL 80	
1965 082NS		3424	US	15 OCT	22 APR 79	
1965 082NT		3425	US	13 AUG	17 OCT 81	
1965 082NU		3426	US	15 OCT	18 FEB 81	
1965 082NV		3427	US	15 OCT	28 MAY 80	
1965 082NW		3433	US	15 OCT	19 OCT 78	
1965 082NX		3434	US	15 OCT	13 APR 82	
1965 082NY		3435	US	15 OCT	20 DEC 79	
1965 082NZ		3436	US	15 OCT	8 MAR 69	
1965 082PA		3437	US	15 OCT	28 NOV 81	
1965 082PB		3438	US	15 OCT	13 OCT 71	
1965 082PC		3439	US	15 OCT	31 JAN 80	
1965 082PD		3440	US	15 OCT	13 APR 81	
1965 082PF		3442	US	15 OCT	12 JUN 69	
1965 082PG		3443	US	15 OCT	15 APR 80	
1965 082PH		3444	US	15 OCT	1 MAY 81	
1965 082PJ		3445	US	15 OCT	25 JUL 80	
1965 082PK		3446	US	15 OCT	13 FEB 81	
1965 082PL		3447	US	15 OCT	1 JUL 79	
1965 082PM		3448	US	15 OCT	1 JAN 83	
1965 082PN		3453	US	15 OCT	29 APR 69	
1965 082PQ		3455	US	15 OCT	24 DEC 80	
1965 082PR		3456	US	15 OCT	18 FEB 82	
1965 082PU		3463	US	15 OCT	21 MAY 82	
1965 082PV		3464	US	15 OCT	21 OCT 81	
1965 082PW		3465	US	15 OCT	19 SEP 72	
1965 082PZ		3468	US	15 OCT	17 OCT 80	
1965 082QA		3475	US	15 OCT	3 MAY 73	
1965 082QB		3476	US	15 OCT	19 APR 72	
1965 082QC		3477	US	15 OCT	7 APR 71	
1965 082QD		3478	US	15 OCT	4 MAR 80	
1965 082QE		3480	US	15 OCT	14 MAR 69	
1965 082QF		3481	US	15 OCT	10 FEB 80	
1965 082QG		3482	US	15 OCT	5 MAR 75	
1965 082QH		3483	US	15 OCT	29 MAY 78	
1965 082QK		3489	US	15 OCT	3 JUN 70	
1965 082QL		3490	US	15 OCT	13 JAN 78	
1965 082QM		3491	US	15 OCT	8 JUN 80	
1965 082QP		3493	US	15 OCT	21 JAN 69	
1965 082QR		3495	US	15 OCT	21 SEP 69	
1965 082QS		3496	US	15 OCT	5 APR 79	
1965 082QT		3497	US	15 OCT	19 MAR 80	
1965 082QV		3499	US	15 OCT	22 MAY 80	

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INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 082QW		3500	US	15 OCT	14 JUL 70	
1965 082QX		3501	US	15 OCT	23 SEP 71	
1965 082QY		3502	US	15 OCT	27 MAR 79	
1965 082RA		3719	US	15 OCT	26 MAR 71	
1965 082RB		3720	US	15 OCT	7 NOV 79	
1965 082RC		3721	US	15 OCT	27 JUL 72	
1965 082RD		3722	US	15 OCT	15 MAY 70	
1965 082RE		3723	US	15 OCT	14 JUL 79	
1965 082RF		3724	US	15 OCT	6 DEC 69	
1965 082RG		3725	US	15 OCT	11 NOV 69	
1965 082RH		3726	US	15 OCT	6 APR 69	
1965 082RJ		3727	US	15 OCT	22 JUN 69	
1965 082RK		3728	US	15 OCT	1 FEB 70	
1965 082RL		3729	US	15 OCT	26 JUN 69	
1965 082RM		3730	US	15 OCT	21 DEC 77	
1965 082RN		3731	US	15 OCT	16 AUG 71	
1965 082RP		3732	US	15 OCT	7 JUN 78	
1965 082RQ		3733	US	15 OCT	5 SEP 79	
1965 082RR		3734	US	15 OCT	2 DEC 69	
1965 082RS		3735	US	15 OCT	23 SEP 69	
1965 082RT		3736	US	15 OCT	5 APR 78	
1965 082RU		3746	US	15 OCT	29 NOV 80	
1965 082RW		3838	US	15 OCT	30 NOV 80	
1965 082RX		3839	US	15 OCT	23 FEB 77	
1965 082RY		3925	US	15 OCT	30 SEP 80	
1965 082RZ		3926	US	15 OCT	26 FEB 79	
1965 082SB		3929	US	15 OCT	27 DEC 70	
1965 082SC		3930	US	15 OCT	19 NOV 82	
1965 082SD		3936	US	15 OCT	22 APR 70	
1965 082SF		3980	US	15 OCT	24 APR 70	
1965 082SG		3981	US	15 OCT	19 FEB 70	
1965 082SH		3982	US	15 OCT	25 OCT 69	
1965 082SJ		3996	US	15 OCT	26 DEC 69	
1965 082SK		3998	US	15 OCT	6 FEB 71	
1965 082SL		4003	US	15 OCT	18 FEB 81	
1965 082SM		4004	US	15 OCT	5 JAN 70	
1965 082SN		4017	US	15 OCT	13 AUG 79	
1965 082SP		4020	US	15 OCT	16 JUN 79	
1965 082SQ		4023	US	15 OCT	2 FEB 70	
1965 082SR		4025	US	15 OCT	16 OCT 69	
1965 082SS		4032	US	15 OCT	30 DEC 69	
1965 082ST		4033	US	15 OCT	3 SEP 70	
1965 082SU		4021	US	15 OCT	6 FEB 81	
1965 082SW		5056	US	15 OCT	3 MAY 71	
1965 082SX		5057	US	15 OCT	26 MAY 78	
1965 082SY		5058	US	15 OCT	7 MAR 81	
1965 082SZ		5085	US	15 OCT	12 SEP 80	
1965 082TA		5312	US	15 OCT	2 APR 72	
1965 082TB		5344	US	15 OCT	25 MAR 73	
1965 082TC		5345	US	15 OCT	25 JUN 80	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 082TD		5372	US	15 OCT	22 NOV 82	
1965 082TE		5375	US	15 OCT	19 APR 78	
1965 082TG		5471	US	15 OCT	31 AUG 79	
1965 082TH		5567	US	15 OCT	21 NOV 72	
1965 082TJ		5568	US	15 OCT	24 JAN 81	
1965 082TK		5569	US	15 OCT	22 JAN 80	
1965 082TL		5571	US	15 OCT	6 APR 81	
1965 082TM		5572	US	15 OCT	24 AUG 75	
1965 082TN		5711	US	15 OCT	21 JUN 80	
1965 082TP		5719	US	15 OCT	30 JUL 75	
1965 082TQ		5734	US	15 OCT	3 JUL 80	
1965 082TR		5744	US	15 OCT	21 NOV 78	
1965 082TS		5768	US	15 OCT	1 MAR 72	
1965 082TT		5811	US	15 OCT	18 JUL 79	
1965 082TU		5844	US	15 OCT	13 MAY 74	
1965 082TV		5845	US	15 OCT	17 SEP 82	
1965 082TW		5856	US	15 OCT	23 OCT 72	
1965 082TX		5857	US	15 OCT	3 AUG 79	
1965 082TY		5955	US	15 OCT	22 FEB 78	
1965 082TZ		5968	US	15 OCT	11 MAY 77	
1965 082UA		5970	US	15 OCT	26 JUL 73	
1965 082UB		5982	US	15 OCT	31 JAN 73	
1965 082UC		6041	US	15 OCT	4 JUL 72	
1965 082UD		6042	US	15 OCT	28 AUG 73	
1965 082UE		6141	US	15 OCT	23 FEB 73	
1965 082UF		6183	US	15 OCT	15 SEP 74	
1965 082UH		6783	US	15 OCT	27 JUL 80	
1965 082UJ		9840	US	15 OCT	21 MAY 78	
1965 083A	COSMOS 92	1626	USSR	16 OCT	24 OCT 65	
1965 083B		1627	USSR	16 OCT	29 OCT 65	
1965 083C		1628	USSR	16 OCT	25 OCT 65	
1965 084A	COSMOS 93	1629	USSR	19 OCT	3 JAN 66	
1965 084B		1630	USSR	19 OCT	17 NOV 65	
1965 084C		1631	USSR	19 OCT	25 OCT 65	
1965 084D		1632	USSR	19 OCT	26 OCT 65	
1965 084E		2098	USSR	19 OCT	6 JUL 68	
1965 085A	COSMOS 94	1636	USSR	28 OCT	5 NOV 65	
1965 085B		1638	USSR	28 OCT	3 NOV 65	
1965 086A		1637	US	28 OCT	17 NOV 65	
1965 086B		1639	US	28 OCT	1 NOV 65	
1965 087A	PROTON 2	1701	USSR	2 NOV	6 FEB 66	
1965 087B		1702	USSR	2 NOV	4 JAN 66	
1965 087C		1703	USSR	2 NOV	16 NOV 65	
1965 087D		1704	USSR	2 NOV	8 NOV 65	
1965 087E		1705	USSR	2 NOV	8 NOV 65	
1965 088A	COSMOS 95	1706	USSR	4 NOV	18 JAN 66	
1965 088B		1707	USSR	4 NOV	28 NOV 65	M*
1965 088C		1708	USSR	4 NOV	11 NOV 65	
1965 088D		1740	USSR	4 NOV	6 JAN 66	
1965 088E		1741	USSR	4 NOV	13 DEC 65	

1965 088L		1789	USSR	4 NOV	28 NOV 65	
1965 088M		1790	USSR	4 NOV	12 NOV 65	
1965 088N		1791	USSR	4 NOV	7 NOV 65	
1965 088P		1792	USSR	4 NOV	16 NOV 65	
1965 088Q		1793	USSR	4 NOV	7 NOV 65	
1965 088R		1794	USSR	4 NOV	28 NOV 65	
1965 088S		1795	USSR	4 NOV	8 NOV 65	
1965 088T		1796	USSR	4 NOV	15 NOV 65	
1965 088U		1797	USSR	4 NOV	11 NOV 65	
1965 088V		1798	USSR	4 NOV	28 NOV 65	
1965 088W		1799	USSR	4 NOV	28 NOV 65	
1965 088X		1800	USSR	4 NOV	28 NOV 65	
1965 088Y		1801	USSR	4 NOV	26 NOV 65	
1965 088Z		1802	USSR	4 NOV	28 NOV 65	
1965 090A		1727	US	8 NOV	11 NOV 65	
1965 090B		1728	US	8 NOV	9 NOV 65	
1965 091B		1731	USSR	12 NOV	17 NOV 65	
1965 091C		1732	USSR	12 NOV	25 NOV 65	
1965 092A	VENERA 3	1733	USSR	16 NOV	1 MAR 66	N*
1965 092B		1734	USSR	16 NOV	26 NOV 65	
1965 092C		1735	USSR	16 NOV	3 DEC 65	
1965 092E		1737	USSR	16 NOV	16 NOV 65	
1965 094A	COSMOS 96	1742	USSR	23 NOV	9 DEC 65	
1965 094B		1743	USSR	23 NOV	4 DEC 65	
1965 094C		1771	USSR	23 NOV	28 NOV 65	
1965 094D		1772	USSR	23 NOV	28 NOV 65	
1965 094E		1773	USSR	23 NOV	29 NOV 65	
1965 094F		1774	USSR	23 NOV	28 NOV 65	
1965 094G		1775	USSR	23 NOV	8 DEC 65	
1965 094H		1776	USSR	23 NOV	8 DEC 65	
1965 095A	COSMOS 97	1777	USSR	26 NOV	2 APR 67	
1965 095B		1779	USSR	26 NOV	21 FEB 67	
1965 095C		1782	USSR	26 NOV	21 JAN 66	
1965 095D		1783	USSR	26 NOV	21 JAN 66	
1965 096C		1938	FRANCE	26 NOV	25 MAR 67	
1965 097A	COSMOS 98	1780	USSR	27 NOV	5 DEC 65	
1965 097B		1781	USSR	27 NOV	23 JAN 66	
1965 097C		1805	USSR	27 NOV	8 DEC 65	
1965 099A	LUNA 8	1810	USSR	3 DEC	6 DEC 65	A*
1965 099B		1809	USSR	3 DEC	5 DEC 65	
1965 099C		1811	USSR	3 DEC	6 DEC 65	
1965 100A	GEMINI 7	1812	US	4 DEC	18 DEC 65	F*
1965 100B		1813	US	4 DEC	7 DEC 65	
1965 100C		1845	US	4 DEC	27 JAN 66	
1965 101C		1934	FRANCE	6 DEC	10 DEC 81	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 101D		1935	FRANCE	6 DEC	10 NOV 80	
1965 102A		1816	US	9 DEC	26 DEC 65	
1965 102B		1838	US	9 DEC	15 DEC 65	
1965 103A	COSMOS 99	1817	USSR	10 DEC	18 DEC 65	
1965 103B		1818	USSR	10 DEC	28 DEC 65	
1965 104A	GEMINI 6	1839	US	15 DEC	16 DEC 65	F*
1965 104B		1840	US	15 DEC	16 DEC 65	
1965 105B		1842	US	16 DEC	6 SEP 68	
1965 107A	COSMOS 101	1846	USSR	21 DEC	12 JUL 66	
1965 107B		1847	USSR	21 DEC	16 APR 66	
1965 108A	TITAN 3 C-8	1853	US	21 DEC	17 AUG 75	
1965 108B	LES 4	1870	US	21 DEC	1 AUG 77	
1965 108C	OSCAR 4	1902	US	21 DEC	12 APR 76	
1965 108D	LES 3	1941	US	21 DEC	6 APR 68	
1965 108E		3999	US	21 DEC	21 AUG 69	
1965 108F		4429	US	21 DEC	3 NOV 75	
1965 108G		4476	US	21 DEC	1 AUG 77	
1965 108H		5472	US	21 DEC	25 NOV 72	
1965 108J		5474	US	21 DEC	3 FEB 73	
1965 108K		5980	US	21 DEC	12 APR 76	
1965 110A		1866	US	24 DEC	20 JAN 66	
1965 110B		1901	US	24 DEC	6 JAN 66	
1965 111A	COSMOS 102	1867	USSR	27 DEC	13 JAN 66	
1965 112B		1869	USSR	28 DEC	15 JUN 82	P*
1965 112C		1871	USSR	28 DEC	25 APR 67	
1965 112D		1872	USSR	28 DEC	27 DEC 67	
1965 112E		1873	USSR	28 DEC	21 APR 67	
1965 112F		1874	USSR	28 DEC	1 MAY 68	
1965 112G		1875	USSR	28 DEC	17 FEB 68	
1965 112H		1876	USSR	28 DEC	12 MAR 68	
1965 112J		1877	USSR	28 DEC	22 MAR 68	
1965 112K		1878	USSR	28 DEC	2 JUL 70	
1965 112L		1906	USSR	28 DEC	19 OCT 68	
1965 112M		1907	USSR	28 DEC	16 OCT 68	
1965 112N		1933	USSR	28 DEC	5 JUL 67	
1965 112P		1936	USSR	28 DEC	7 APR 69	
1966 LAUNCHES						
1966 000A		2428	US	UNKN	18 SEP 77	Q*
1966 000B		2429	US	UNKN	1 JAN 79	Q*
1966 000C		2430	US	UNKN	1 JAN 79	Q*
1966 000D		2633	US	UNKN	30 DEC 66	Q*
1966 001A	COSMOS 104	1903	USSR	7 JAN	15 JAN 66	
1966 001B		1904	USSR	7 JAN	24 JAN 66	
1966 001C		1905	USSR	7 JAN	12 JAN 66	
1966 002A		1939	US	19 JAN	25 JAN 66	
1966 002B		1940	US	19 JAN	23 JAN 66	
1966 003A	COSMOS 105	1945	USSR	22 JAN	30 JAN 66	
1966 003B		1946	USSR	22 JAN	10 FEB 66	

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INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 003C		1947	USSR	22 JAN	24 JAN 66	
1966 004A	COSMOS 106	1949	USSR	25 JAN	14 NOV 66	
1966 004B		1950	USSR	25 JAN	16 JUL 66	
1966 005G		4587	US	28 JAN	4 OCT 81	
1966 005H		11990	US	28 JAN	11 JAN 83	
1966 006A	LUNA 9	1954	USSR	31 JAN	3 FEB 66	R*
1966 006B		1955	USSR	31 JAN	2 FEB 66	
1966 006C		1966	USSR	31 JAN	31 JAN 66	
1966 007A		1966	US	2 FEB	27 FEB 66	
1966 009A		1997	US	9 FEB	26 SEP 69	
1966 009B		2003	US	9 FEB	18 NOV 66	
1966 009C		2004	US	9 FEB	18 NOV 66	
1966 010A	COSMOS 107	1998	USSR	10 FEB	18 FEB 66	
1966 010B		2000	USSR	10 FEB	28 FEB 66	
1966 010C		2005	USSR	10 FEB	12 FEB 66	
1966 010D		2006	USSR	10 FEB	12 FEB 66	
1966 011A	COSMOS 108	2002	USSR	11 FEB	21 NOV 66	
1966 011B		2007	USSR	11 FEB	1 JUN 66	
1966 011C		2008	USSR	11 FEB	27 MAR 66	
1966 012A		2012	US	15 FEB	22 FEB 66	
1966 012B		2014	US	15 FEB	16 FEB 66	
1966 012C		2015	US	15 FEB	22 FEB 66	
1966 012D		2025	US	15 FEB	18 FEB 66	S*
1966 012E		2026	US	15 FEB	17 FEB 66	
1966 012F		2027	US	15 FEB	17 FEB 66	
1966 012G		2028	US	15 FEB	18 FEB 66	
1966 012H		2029	US	15 FEB	19 FEB 66	
1966 012J		2030	US	15 FEB	19 FEB 66	
1966 012K		2031	US	15 FEB	20 FEB 66	
1966 012L		2032	US	15 FEB	17 FEB 66	
1966 012M		2033	US	15 FEB	18 FEB 66	
1966 012N		2034	US	15 FEB	19 FEB 66	
1966 012P		2035	US	15 FEB	17 FEB 66	
1966 012Q		2036	US	15 FEB	18 FEB 66	
1966 012R		2037	US	15 FEB	20 FEB 66	
1966 012S		2038	US	15 FEB	19 FEB 66	
1966 012T		2039	US	15 FEB	16 FEB 66	
1966 012U		2040	US	15 FEB	18 FEB 66	
1966 012V		2056	US	15 FEB	20 FEB 66	
1966 012W		2057	US	15 FEB	21 FEB 66	
1966 012X		2058	US	15 FEB	18 FEB 66	
1966 012Y		2059	US	15 FEB	18 FEB 66	
1966 012Z		2060	US	15 FEB	18 FEB 66	
1966 012AA		2061	US	15 FEB	19 FEB 66	
1966 012AB		2062	US	15 FEB	22 FEB 66	
1966 012AC		2063	US	15 FEB	17 FEB 66	
1966 012AD		2064	US	15 FEB	22 FEB 66	
1966 012AE		2065	US	15 FEB	19 FEB 66	
1966 012AF		2066	US	15 FEB	19 FEB 66	
1966 012AG		2067	US	15 FEB	17 FEB 66	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 012AH		2068	US	15 FEB	17 FEB 66	
1966 012AJ		2069	US	15 FEB	20 FEB 66	
1966 012AK		2072	US	15 FEB	18 FEB 66	
1966 012AL		2073	US	15 FEB	17 FEB 66	
1966 012AM		2074	US	15 FEB	18 FEB 66	
1966 012AN		2075	US	15 FEB	17 FEB 66	
1966 012AP		2076	US	15 FEB	19 FEB 66	
1966 012AQ		2077	US	15 FEB	18 FEB 66	
1966 012AR		2078	US	15 FEB	19 FEB 66	
1966 013C		2018	FRANCE	17 FEB	5 DEC 67	
1966 013D		2020	FRANCE	17 FEB	11 SEP 67	
1966 013E		2021	FRANCE	17 FEB	25 AUG 67	
1966 013H		2993	FRANCE	17 FEB	1 MAR 68	
1966 013J		3970	FRANCE	17 FEB	28 MAY 81	
1966 013K		5420	FRANCE	17 FEB	22 NOV 82	
1966 013L		5959	FRANCE	17 FEB	21 NOV 78	
1966 013M		6784	FRANCE	17 FEB	15 MAR 74	
1966 014A	COSMOS 109	2019	USSR	19 FEB	27 FEB 66	
1966 014B		2022	USSR	19 FEB	27 FEB 66	
1966 014C		2024	USSR	19 FEB	21 FEB 66	
1966 015A	COSMOS 110	2070	USSR	22 FEB	16 MAR 66	C*
1966 015B		2071	USSR	22 FEB	29 APR 66	
1966 015C		2089	USSR	22 FEB	5 MAR 66	
1966 015D		2090	USSR	22 FEB	5 MAR 66	
1966 017A	COSMOS 111	2093	USSR	1 MAR	3 MAR 66	
1966 017B		2094	USSR	1 MAR	1 MAR 66	
1966 017C		2095	USSR	1 MAR	2 MAR 66	
1966 018A		2099	US	9 MAR	29 MAR 66	
1966 018B		2113	US	9 MAR	22 MAR 66	
1966 019A	AGENA TARGET VEHICLE	2104	US	16 MAR	15 SEP 67	
1966 020A	GEMINI 8	2105	US	16 MAR	17 MAR 66	F*
1966 020B		2106	US	16 MAR	17 MAR 66	
1966 020C		2115	US	16 MAR	18 APR 66	
1966 021A	COSMOS 112	2107	USSR	17 MAR	25 MAR 66	
1966 021B		2108	USSR	17 MAR	17 MAY 66	
1966 021C		2110	USSR	17 MAR	25 MAR 66	
1966 021D		2111	USSR	17 MAR	25 MAR 66	
1966 022A		2109	US	18 MAR	24 MAR 66	
1966 022B		2112	US	18 MAR	23 MAR 66	
1966 023A	COSMOS 113	2114	USSR	21 MAR	29 MAR 66	
1966 023B		2116	USSR	21 MAR	30 MAR 66	
1966 023C		2117	USSR	21 MAR	22 MAR 66	
1966 024C		2386	US	26 MAR	14 FEB 83	
1966 024D		3590	US	26 MAR	18 APR 78	
1966 025F		4007	US	30 MAR	12 APR 77	
1966 026C		2162	US	31 MAR	11 FEB 67	
1966 026E		2178	US	31 MAR	6 JAN 83	
1966 027B		2127	USSR	31 MAR	4 APR 66	
1966 027C		2128	USSR	31 MAR	2 APR 66	
1966 028A	COSMOS 114	2133	USSR	6 APR	14 APR 66	

DECAYED OBJECTS

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 028B		2134	USSR	6 APR	18 APR 66	
1966 028C		2135	USSR	6 APR	10 APR 66	
1966 028D		2137	USSR	6 APR	10 APR 66	
1966 028E		2138	USSR	6 APR	9 APR 66	
1966 029A		2136	US	7 APR	26 APR 66	
1966 030A	SURVEYOR MODULE	2139	US	8 APR	5 MAY 66	
1966 030B		2143	US	8 APR	17 APR 66	
1966 031C		2145	US	8 APR	31 OCT 81	
1966 032A		2146	US	19 APR	26 APR 66	
1966 032B		2148	US	19 APR	22 APR 66	
1966 033A	COSMOS 115	2147	USSR	20 APR	28 APR 66	
1966 033B		2149	USSR	20 APR	30 APR 66	
1966 034C		2208	US	22 APR	5 DEC 76	
1966 034E		9998	US	22 APR	1 DEC 82	
1966 035A	MOLNIYA 1-3	2151	USSR	25 APR	11 JUN 73	
1966 035B		2155	USSR	25 APR	9 MAY 66	
1966 035C		2156	USSR	25 APR	8 MAY 66	
1966 035D		2157	USSR	25 APR	29 APR 66	
1966 035E		2160	USSR	25 APR	29 APR 66	
1966 035F		3222	USSR	25 APR	18 JUN 73	
1966 036A	COSMOS 116	2152	USSR	26 APR	3 DEC 66	
1966 036B		2159	USSR	26 APR	15 AUG 66	
1966 037A	COSMOS 117	2163	USSR	6 MAY	14 MAY 66	
1966 037B		2164	USSR	6 MAY	21 MAY 66	
1966 037C		2165	USSR	6 MAY	7 MAY 66	
1966 037D		2166	USSR	6 MAY	8 MAY 66	
1966 037E		2170	USSR	6 MAY	16 MAY 66	
1966 039A		2171	US	14 MAY	21 MAY 66	
1966 039B		2172	US	14 MAY	27 OCT 70	
1966 039C		2175	US	14 MAY	17 MAY 66	
1966 042A		2181	US	24 MAY	9 JUN 66	
1966 043A	COSMOS 119	2182	USSR	24 MAY	30 NOV 66	
1966 044B		2184	US	25 MAY	19 JUN 69	
1966 044C		2336	US	25 MAY	31 AUG 69	
1966 045A	SURVEYOR 1	2185	US	30 MAY	2 JUN 66	T*
1966 046A	ATDA	2186	US	1 JUN	11 JUN 66	
1966 046B		2188	US	1 JUN	22 JUN 66	U*
1966 046C		2189	US	1 JUN	5 JUN 66	
1966 046D		2190	US	1 JUN	5 JUN 66	
1966 046E		2228	US	1 JUN	30 JUN 66	
1966 046F		2229	US	1 JUN	30 JUN 66	
1966 046G		2230	US	1 JUN	30 JUN 66	
1966 046H		2231	US	1 JUN	30 JUN 66	
1966 046J		2232	US	1 JUN	30 JUN 66	
1966 046K		2233	US	1 JUN	21 JUN 66	
1966 046L		2234	US	1 JUN	23 JUN 66	
1966 046M		2235	US	1 JUN	23 JUN 66	
1966 046N		2236	US	1 JUN	22 JUN 66	
1966 046P		2237	US	1 JUN	23 JUN 66	
1966 046Q		2238	US	1 JUN	22 JUN 66	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 046R		2239	US	1 JUN	22 JUN 66	
1966 046S		2240	US	1 JUN	23 JUN 66	
1966 046T		2241	US	1 JUN	22 JUN 66	
1966 046U		2242	US	1 JUN	27 JUN 66	
1966 046V		2243	US	1 JUN	21 JUN 66	
1966 046W		2244	US	1 JUN	23 JUN 66	
1966 046X		2245	US	1 JUN	22 JUN 66	
1966 046Y		2246	US	1 JUN	21 JUN 66	
1966 046Z		2247	US	1 JUN	21 JUN 66	
1966 046AA		2248	US	1 JUN	23 JUN 66	
1966 046AB		2249	US	1 JUN	4 JUL 66	
1966 046AC		2250	US	1 JUN	29 JUN 66	
1966 046AD		2251	US	1 JUN	25 JUN 66	
1966 046AE		2252	US	1 JUN	23 JUN 66	
1966 046AF		2264	US	1 JUN	4 JUL 66	
1966 046AG		2265	US	1 JUN	4 JUL 66	
1966 046AH		2266	US	1 JUN	4 JUL 66	
1966 046AJ		2267	US	1 JUN	4 JUL 66	
1966 046AK		2268	US	1 JUN	4 JUL 66	
1966 046AL		2269	US	1 JUN	4 JUL 66	
1966 046AM		2270	US	1 JUN	4 JUL 66	
1966 046AN		2271	US	1 JUN	4 JUL 66	
1966 046AP		2272	US	1 JUN	4 JUL 66	
1966 046AQ		2273	US	1 JUN	4 JUL 66	
1966 046AR		2274	US	1 JUN	4 JUL 66	
1966 046AS		2275	US	1 JUN	4 JUL 66	
1966 046AT		2276	US	1 JUN	4 JUL 66	
1966 046AU		2277	US	1 JUN	4 JUL 66	
1966 046AV		2278	US	1 JUN	4 JUL 66	
1966 046AW		2279	US	1 JUN	4 JUL 66	
1966 046AX		2280	US	1 JUN	4 JUL 66	
1966 046AY		2281	US	1 JUN	4 JUL 66	
1966 046AZ		2282	US	1 JUN	4 JUL 66	
1966 046BA		2283	US	1 JUN	4 JUL 66	
1966 046BB		2284	US	1 JUN	4 JUL 66	
1966 046BC		2285	US	1 JUN	4 JUL 66	
1966 046BD		2286	US	1 JUN	4 JUL 66	
1966 046BE		2287	US	1 JUN	4 JUL 66	
1966 046BF		2288	US	1 JUN	4 JUL 66	
1966 047A	GEMINI 9	2191	US	3 JUN	6 JUN 66	F*
1966 047B		2193	US	3 JUN	4 JUN 66	
1966 048A		2192	US	3 JUN	9 JUN 66	
1966 048B		2194	US	3 JUN	9 JUN 66	
1966 050A	COSMOS 120	2196	USSR	8 JUN	16 JUN 66	
1966 050B		2197	USSR	8 JUN	12 JUN 66	
1966 050C		2198	USSR	8 JUN	11 JUN 66	
1966 050D		2199	USSR	8 JUN	9 JUN 66	
1966 051A		2200	US	9 JUN	3 DEC 66	
1966 051B	SECOR (EGRS) 5	2205	US	9 JUN	6 JUL 67	
1966 051C	ERS 16	2202	US	9 JUN	12 MAR 67	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 054A	COSMOS 121	2210	USSR	17 JUN	25 JUN 66	
1966 054B		2211	USSR	17 JUN	26 JUN 66	
1966 054C		2212	USSR	17 JUN	19 JUN 66	
1966 054D		2213	USSR	17 JUN	20 JUN 66	
1966 054E		2214	USSR	17 JUN	20 JUN 66	
1966 055A		2227	US	21 JUN	14 JUL 66	
1966 055B		2261	US	21 JUN	4 JUL 66	
1966 056F		8065	US	24 JUN	18 APR 78	V*
1966 056J		8075	US	24 JUN	19 FEB 77	
1966 056K		8076	US	24 JUN	4 SEP 84	
1966 056L		8077	US	24 JUN	1 APR 77	
1966 056M		8078	US	24 JUN	19 FEB 77	
1966 056P		8080	US	24 JUN	21 JAN 77	
1966 056Q		8081	US	24 JUN	22 MAY 77	
1966 056R		9452	US	24 JUN	8 MAR 77	
1966 056S		9453	US	24 JUN	13 APR 81	
1966 056T		9454	US	24 JUN	8 FEB 77	
1966 056U		9455	US	24 JUN	3 MAR 77	
1966 056V		9456	US	24 JUN	14 FEB 77	
1966 056W		9457	US	24 JUN	20 AUG 77	
1966 056X		9458	US	24 JUN	29 JUN 77	
1966 056Y		9459	US	24 JUN	2 JUL 77	
1966 056AA		9461	US	24 JUN	16 DEC 77	
1966 056AB		9462	US	24 JUN	9 FEB 77	
1966 056AC		9463	US	24 JUN	13 APR 81	
1966 056AD		9464	US	24 JUN	22 AUG 80	
1966 056AE		9465	US	24 JUN	13 APR 81	
1966 056AG		9467	US	24 JUN	18 APR 77	
1966 056AJ		9469	US	24 JUN	25 NOV 82	
1966 056AK		9739	US	24 JUN	20 JAN 77	
1966 056AL		9740	US	24 JUN	20 JAN 77	
1966 056AM		9741	US	24 JUN	20 JAN 77	
1966 056AN		9742	US	24 JUN	20 JAN 77	
1966 056AP		9743	US	24 JUN	20 JAN 77	
1966 056AQ		9744	US	24 JUN	20 JAN 77	
1966 056AR		9745	US	24 JUN	20 JAN 77	
1966 056AS		9746	US	24 JUN	20 JAN 77	
1966 056AT		9747	US	24 JUN	20 JAN 77	
1966 056AU		9748	US	24 JUN	20 JAN 77	
1966 056AV		9749	US	24 JUN	20 JAN 77	
1966 056AW		9750	US	24 JUN	20 JAN 77	
1966 056AX		9751	US	24 JUN	20 JAN 77	
1966 056AY		9752	US	24 JUN	20 JAN 77	
1966 056AZ		9753	US	24 JUN	20 JAN 77	
1966 056BA		9754	US	24 JUN	20 JAN 77	
1966 056BB		9755	US	24 JUN	20 JAN 77	
1966 056BC		9756	US	24 JUN	20 JAN 77	
1966 056BD		9757	US	24 JUN	20 JAN 77	
1966 056BE		9758	US	24 JUN	20 JAN 77	
1966 056BF		9759	US	24 JUN	20 JAN 77	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 056BG		9760	US	24 JUN	20 JAN 77	
1966 056BH		9761	US	24 JUN	20 JAN 77	
1966 056BJ		9762	US	24 JUN	20 JAN 77	
1966 056BK		9763	US	24 JUN	20 JAN 77	
1966 056BL		9764	US	24 JUN	20 JAN 77	
1966 056BM		9765	US	24 JUN	20 JAN 77	
1966 056BN		9766	US	24 JUN	20 JAN 77	
1966 056BP		9767	US	24 JUN	20 JAN 77	
1966 056BQ		9768	US	24 JUN	20 JAN 77	
1966 056BR		9769	US	24 JUN	20 JAN 77	
1966 056BS		9770	US	24 JUN	20 JAN 77	
1966 056BT		9771	US	24 JUN	20 JAN 77	
1966 056BU		9772	US	24 JUN	20 JAN 77	
1966 056BV		9773	US	24 JUN	20 JAN 77	
1966 056BW		9774	US	24 JUN	20 JAN 77	
1966 056BX		9775	US	24 JUN	20 JAN 77	
1966 056BY		9776	US	24 JUN	20 JAN 77	
1966 056BZ		9777	US	24 JUN	20 JAN 77	
1966 056CA		9778	US	24 JUN	20 JAN 77	
1966 056CB		9779	US	24 JUN	20 JAN 77	
1966 056CC		9780	US	24 JUN	20 JAN 77	
1966 056CD		9781	US	24 JUN	20 JAN 77	
1966 056CE		9782	US	24 JUN	20 JAN 77	
1966 056CF		9783	US	24 JUN	20 JAN 77	
1966 057B		2257	USSR	25 JUN	20 JAN 84	
1966 058B		2259	US	1 JUL	17 NOV 66	
1966 058D		2262	US	1 JUL	7 SEP 66	
1966 058E		2263	US	1 JUL	29 AUG 66	
1966 059A	AS 203	2289	US	5 JUL	5 JUL 66	
1966 059B		2291	US	5 JUL	18 JUL 66	W*
1966 059C		2297	US	5 JUL	12 JUL 66	
1966 059D		2298	US	5 JUL	12 JUL 66	
1966 059E		2299	US	5 JUL	11 JUL 66	
1966 059F		2300	US	5 JUL	12 JUL 66	
1966 059G		2301	US	5 JUL	11 JUL 66	
1966 059H		2302	US	5 JUL	10 JUL 66	
1966 059J		2303	US	5 JUL	12 JUL 66	
1966 059K		2304	US	5 JUL	11 JUL 66	
1966 059L		2305	US	5 JUL	11 JUL 66	
1966 059M		2306	US	5 JUL	11 JUL 66	
1966 059N		2307	US	5 JUL	19 JUL 66	
1966 059P		2308	US	5 JUL	14 JUL 66	
1966 059Q		2309	US	5 JUL	15 JUL 66	
1966 059R		2310	US	5 JUL	19 JUL 66	
1966 059S		2311	US	5 JUL	16 JUL 66	
1966 059T		2312	US	5 JUL	15 JUL 66	
1966 059U		2313	US	5 JUL	15 JUL 66	
1966 059V		2314	US	5 JUL	16 JUL 66	
1966 059W		2315	US	5 JUL	16 JUL 66	
1966 059X		2316	US	5 JUL	16 JUL 66	

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INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 059Y		2317	US	5 JUL	17 JUL 66	
1966 059Z		2318	US	5 JUL	18 JUL 66	
1966 059AA		2319	US	5 JUL	20 JUL 66	
1966 059AB		2320	US	5 JUL	19 JUL 66	
1966 059AC		2321	US	5 JUL	18 JUL 66	
1966 059AD		2341	US	5 JUL	15 JUL 66	
1966 059AE		2342	US	5 JUL	20 JUL 66	
1966 059AF		2343	US	5 JUL	20 JUL 66	
1966 059AG		2344	US	5 JUL	20 JUL 66	
1966 059AH		2345	US	5 JUL	18 JUL 66	
1966 059AJ		2346	US	5 JUL	19 JUL 66	
1966 059AK		2347	US	5 JUL	19 JUL 66	
1966 059AL		2352	US	5 JUL	22 JUL 66	
1966 060A	PROTON 3	2290	USSR	6 JUL	16 SEP 66	
1966 060B		2293	USSR	6 JUL	21 AUG 66	
1966 060C		2294	USSR	6 JUL	19 JUL 66	
1966 060D		2292	USSR	6 JUL	11 JUL 66	
1966 061A	COSMOS 123	2295	USSR	8 JUL	10 DEC 66	
1966 061B		2296	USSR	8 JUL	2 OCT 66	
1966 062A		2322	US	12 JUL	20 JUL 66	
1966 062B		2323	US	12 JUL	14 JUL 66	
1966 063A	OV1-8	2324	US	14 JUL	4 JAN 78	
1966 064A	COSMOS 124	2325	USSR	14 JUL	22 JUL 66	
1966 064B		2326	USSR	14 JUL	19 JUL 66	
1966 064C		2330	USSR	14 JUL	17 JUL 66	
1966 064D		2331	USSR	14 JUL	16 JUL 66	
1966 064E		2332	USSR	14 JUL	19 JUL 66	
1966 065A	AGENA TARGET VEHICLE	2348	US	18 JUL	29 DEC 66	
1966 066A	GEMINI 10	2349	US	18 JUL	21 JUL 66	F*
1966 066B		2350	US	18 JUL	19 JUL 66	
1966 066C		2354	US	18 JUL	14 AUG 66	
1966 066D		2355	US	18 JUL	18 SEP 66	
1966 066E		2356	US	18 JUL	18 APR 67	
1966 066F		2357	US	18 JUL	15 OCT 66	
1966 066G		2358	US	18 JUL	12 AUG 66	
1966 066H		2382	US	18 JUL	20 OCT 66	
1966 066J		2385	US	18 JUL	17 JAN 67	
1966 066K		2388	US	18 JUL	26 FEB 67	
1966 067A	COSMOS 125	2351	USSR	20 JUL	2 AUG 66	
1966 068A	COSMOS 126	2368	USSR	28 JUL	6 AUG 66	
1966 068B		2369	USSR	28 JUL	10 AUG 66	
1966 068C		2370	USSR	28 JUL	30 JUL 66	
1966 069A		2376	US	28 JUL	6 AUG 66	
1966 070C		2521	US	4 AUG	30 JUN 74	
1966 071A	COSMOS 127	2391	USSR	8 AUG	16 AUG 66	
1966 071B		2392	USSR	8 AUG	12 AUG 66	
1966 072A		2393	US	9 AUG	11 SEP 66	
1966 073A	LUNAR ORBITER 1	2394	US	10 AUG	29 OCT 66	G*
1966 074A		2396	US	16 AUG	24 AUG 66	
1966 074B		2397	US	16 AUG	5 MAR 70	

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INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 074C		2400	US	16 AUG	18 AUG 66	
1966 075B		2399	US	17 AUG	7 AUG 67	
1966 075D		2405	US	17 AUG	26 FEB 67	
1966 075E		2572	US	17 AUG	9 MAR 67	
1966 076E		7558	US	18 AUG	2 SEP 81	
1966 076F		8000	US	18 AUG	11 SEP 81	
1966 076G		9401	US	18 AUG	25 MAR 82	
1966 078B		2407	USSR	24 AUG	25 AUG 66	
1966 078C		2408	USSR	24 AUG	26 AUG 66	
1966 079A	COSMOS 128	2409	USSR	27 AUG	4 SEP 66	
1966 079B		2410	USSR	27 AUG	7 SEP 66	
1966 080A	AGENA TARGET VEHICLE	2414	US	12 SEP	30 DEC 66	
1966 081A	GEMINI 11	2415	US	12 SEP	15 SEP 66	F*
1966 081B		2416	US	12 SEP	13 SEP 66	
1966 081C		2417	US	12 SEP	8 OCT 66	
1966 081D		2421	US	12 SEP	20 SEP 66	
1966 083A		2419	US	16 SEP	23 SEP 66	
1966 083B		2420	US	16 SEP	9 MAY 68	
1966 083C		2423	US	16 SEP	18 SEP 66	
1966 083D		2424	US	16 SEP	30 OCT 66	
1966 084A	SURVEYOR 2	2425	US	20 SEP	23 SEP 66	G*
1966 085A		2427	US	20 SEP	12 OCT 66	
1966 085B		2434	US	20 SEP	8 OCT 66	
1966 086A		2433	US	28 SEP	7 OCT 66	
1966 088A		2437	USSR	17 SEP	11 NOV 66	
1966 088B		2438	USSR	17 SEP	4 MAR 67	X*
1966 088C		2439	USSR	17 SEP	10 OCT 66	
1966 088D		2440	USSR	17 SEP	18 OCT 66	
1966 088E		2441	USSR	17 SEP	23 JUN 67	
1966 088F		2442	USSR	17 SEP	25 SEP 66	
1966 088G		2443	USSR	17 SEP	20 SEP 66	
1966 088H		2444	USSR	17 SEP	25 SEP 66	
1966 088J		2445	USSR	17 SEP	24 SEP 66	
1966 088K		2446	USSR	17 SEP	3 OCT 66	
1966 088L		2447	USSR	17 SEP	3 OCT 66	
1966 088M		2448	USSR	17 SEP	1 OCT 66	
1966 088N		2449	USSR	17 SEP	30 SEP 66	
1966 088P		2450	USSR	17 SEP	26 SEP 66	
1966 088Q		2451	USSR	17 SEP	2 OCT 66	
1966 088R		2452	USSR	17 SEP	17 SEP 66	
1966 088S		2453	USSR	17 SEP	4 OCT 66	
1966 088T		2454	USSR	17 SEP	2 OCT 66	
1966 088U		2455	USSR	17 SEP	4 OCT 66	
1966 088V		2456	USSR	17 SEP	28 SEP 66	
1966 088W		2457	USSR	17 SEP	26 SEP 66	
1966 088X		2458	USSR	17 SEP	30 SEP 66	
1966 088Y		2459	USSR	17 SEP	3 OCT 66	
1966 088Z		2460	USSR	17 SEP	22 SEP 66	
1966 088AA		2461	USSR	17 SEP	24 SEP 66	
1966 088AB		2462	USSR	17 SEP	27 SEP 66	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 088AC		2463	USSR	17 SEP	26 SEP 66	
1966 088AD		2464	USSR	17 SEP	27 SEP 66	
1966 088AE		2465	USSR	17 SEP	25 SEP 66	
1966 088AF		2466	USSR	17 SEP	28 SEP 66	
1966 088AG		2467	USSR	17 SEP	26 SEP 66	
1966 088AH		2468	USSR	17 SEP	22 SEP 66	
1966 088AJ		2469	USSR	17 SEP	24 SEP 66	
1966 088AK		2470	USSR	17 SEP	24 SEP 66	
1966 088AL		2471	USSR	17 SEP	25 SEP 66	
1966 088AM		2472	USSR	17 SEP	25 SEP 66	
1966 088AN		2473	USSR	17 SEP	27 SEP 66	
1966 088AP		2474	USSR	17 SEP	23 SEP 66	
1966 088AQ		2475	USSR	17 SEP	23 SEP 66	
1966 088AR		2476	USSR	17 SEP	27 SEP 66	
1966 088AS		2477	USSR	17 SEP	30 SEP 66	
1966 088AT		2478	USSR	17 SEP	27 SEP 66	
1966 088AU		2479	USSR	17 SEP	3 OCT 66	
1966 088AV		2480	USSR	17 SEP	25 SEP 66	
1966 088AW		2482	USSR	17 SEP	18 OCT 66	
1966 088AX		2483	USSR	17 SEP	8 OCT 66	
1966 088AY		2484	USSR	17 SEP	9 FEB 67	
1966 088AZ		2485	USSR	17 SEP	12 NOV 66	
1966 088BA		2486	USSR	17 SEP	21 OCT 66	
1966 088BB		2487	USSR	17 SEP	18 OCT 66	
1966 088BC		2488	USSR	17 SEP	10 OCT 66	
1966 088BD		2506	USSR	17 SEP	21 OCT 66	
1966 088BE		2507	USSR	17 SEP	21 OCT 66	
1966 090A		2489	US	12 OCT	20 OCT 66	
1966 090B		2490	US	12 OCT	21 OCT 66	
1966 090C		2494	US	12 OCT	16 OCT 66	
1966 090D		2495	US	12 OCT	16 OCT 66	
1966 091A	COSMOS 129	2491	USSR	14 OCT	21 OCT 66	
1966 091B		2492	USSR	14 OCT	23 OCT 66	
1966 092A	MOLNIYA 1-4	2501	USSR	20 OCT	11 SEP 68	
1966 092B		2503	USSR	20 OCT	10 NOV 66	
1966 092C		2505	USSR	20 OCT	2 NOV 66	
1966 092D		3223	USSR	20 OCT	5 JUN 69	
1966 093A	COSMOS 130	2502	USSR	20 OCT	28 OCT 66	
1966 093B		2504	USSR	20 OCT	29 OCT 66	
1966 094B		2509	USSR	22 OCT	24 OCT 66	
1966 094C		2510	USSR	22 OCT	23 OCT 66	
1966 095A	AC 9	2512	US	26 OCT	6 NOV 66	
1966 096B		2515	US	26 OCT	9 FEB 67	
1966 097A	OV3-2	2517	US	28 OCT	29 SEP 71	
1966 097B		2519	US	28 OCT	28 JAN 70	
1966 097C		2613	US	28 OCT	20 SEP 67	
1966 097D		2614	US	28 OCT	20 AUG 76	
1966 098A		2523	US	2 NOV	10 NOV 66	
1966 098B		2525	US	2 NOV	16 NOV 66	
1966 099A		2524	US	2 NOV	9 JAN 67	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 099B		2526	US	2 NOV	5 JAN 67	
1966 099C		2527	US	2 NOV	31 DEC 66	
1966 099D		2528	US	2 NOV	11 JAN 67	
1966 100A	LUNAR ORBITER 2	2534	US	6 NOV	11 OCT 67	G*
1966 100B		2535	US	6 NOV	15 NOV 66	
1966 101A		2536	USSR	2 NOV	29 NOV 66	
1966 101B		2538	USSR	2 NOV	22 NOV 66	Y*
1966 101C		2539	USSR	2 NOV	15 NOV 66	
1966 101D		2540	USSR	2 NOV	13 NOV 66	
1966 101E		2541	USSR	2 NOV	29 NOV 66	
1966 101F		2542	USSR	2 NOV	21 NOV 66	
1966 101G		2543	USSR	2 NOV	6 MAY 67	
1966 101H		2544	USSR	2 NOV	29 NOV 66	
1966 101J		2545	USSR	2 NOV	17 NOV 66	
1966 101K		2546	USSR	2 NOV	8 NOV 66	
1966 101L		2547	USSR	2 NOV	12 NOV 66	
1966 101M		2548	USSR	2 NOV	29 NOV 66	
1966 101N		2549	USSR	2 NOV	8 NOV 66	
1966 101P		2550	USSR	2 NOV	24 NOV 66	
1966 101Q		2551	USSR	2 NOV	8 NOV 66	
1966 101R		2552	USSR	2 NOV	6 NOV 66	
1966 101S		2553	USSR	2 NOV	8 NOV 66	
1966 101T		2554	USSR	2 NOV	7 NOV 66	
1966 101U		2555	USSR	2 NOV	20 NOV 66	
1966 101V		2556	USSR	2 NOV	8 NOV 66	
1966 101W		2557	USSR	2 NOV	8 NOV 66	
1966 101X		2558	USSR	2 NOV	7 NOV 66	
1966 101Y		2559	USSR	2 NOV	9 NOV 66	
1966 101Z		2560	USSR	2 NOV	7 NOV 66	
1966 101AA		2561	USSR	2 NOV	7 NOV 66	
1966 101AB		2562	USSR	2 NOV	8 NOV 66	
1966 101AC		2563	USSR	2 NOV	8 NOV 66	
1966 101AD		2564	USSR	2 NOV	9 NOV 66	
1966 101AE		2570	USSR	2 NOV	22 NOV 66	
1966 101AF		2571	USSR	2 NOV	29 NOV 66	
1966 101AG		2575	USSR	2 NOV	11 NOV 66	
1966 101AH		2576	USSR	2 NOV	13 NOV 66	
1966 101AJ		2581	USSR	2 NOV	23 NOV 66	
1966 101AK		2582	USSR	2 NOV	14 NOV 66	
1966 101AL		2533	USSR	2 NOV	14 NOV 66	
1966 101AM		2584	USSR	2 NOV	12 NOV 66	
1966 101AN		2585	USSR	2 NOV	14 NOV 66	
1966 101AP		2586	USSR	2 NOV	12 NOV 66	
1966 101AQ		2587	USSR	2 NOV	16 NOV 66	
1966 101AR		2598	USSR	2 NOV	17 NOV 66	
1966 101AS		2931	USSR	2 NOV	26 APR 76	
1966 102A		2537	US	8 NOV	29 NOV 66	
1966 103A	AGENA TARGET VEHICLE	2565	US	11 NOV	23 DEC 66	
1966 104A	GEMINI 12	2566	US	11 NOV	15 NOV 66	F*
1966 104B		2567	US	11 NOV	12 NOV 66	Z*

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INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 104C		2577	US	11 NOV	15 NOV 66	
1966 104D		2578	US	11 NOV	15 NOV 66	
1966 104E		2579	US	11 NOV	16 NOV 66	
1966 104F		2588	US	11 NOV	4 DEC 66	
1966 104G		2589	US	11 NOV	1 DEC 66	
1966 104H		2590	US	11 NOV	18 NOV 66	
1966 104J		2591	US	11 NOV	18 NOV 66	
1966 104K		2592	US	11 NOV	18 NOV 66	
1966 104L		2593	US	11 NOV	18 NOV 66	
1966 104M		2594	US	11 NOV	18 NOV 66	
1966 104N		2595	US	11 NOV	18 NOV 66	
1966 104P		2596	US	11 NOV	18 NOV 66	
1966 104Q		2597	US	11 NOV	18 NOV 66	
1966 105A	COSMOS 131	2568	USSR	12 NOV	20 NOV 66	
1966 105B		2569	USSR	12 NOV	22 NOV 66	
1966 106A	COSMOS 132	2599	USSR	19 NOV	27 NOV 66	
1966 106B		2600	USSR	19 NOV	27 NOV 66	
1966 107A	COSMOS 133	2601	USSR	28 NOV	30 NOV 66	
1966 107B		2602	USSR	28 NOV	29 NOV 66	
1966 108A	COSMOS 134	2603	USSR	3 DEC	11 DEC 66	
1966 108B		2604	USSR	3 DEC	10 DEC 66	
1966 108C		2605	USSR	3 DEC	4 DEC 66	
1966 109A		2606	US	5 DEC	14 DEC 66	
1966 109B		2607	US	5 DEC	8 DEC 66	
1966 110B		2609	US	7 DEC	15 OCT 74	
1966 112A	COSMOS 135	2612	USSR	12 DEC	12 APR 67	
1966 112B		2615	USSR	12 DEC	15 MAR 67	
1966 112C		2616	USSR	12 DEC	28 DEC 66	
1966 112D		2617	USSR	12 DEC	28 DEC 66	
1966 112E		2708	USSR	12 DEC	28 MAY 67	
1966 113A		2618	US	14 DEC	24 DEC 66	
1966 114A	BIOSATELLITE 1	2632	US	14 DEC	15 FEB 67	
1966 114B		2623	US	14 DEC	23 JAN 67	
1966 114C		2619	US	14 DEC	10 JAN 67	
1966 114D		2631	US	14 DEC	10 JAN 67	
1966 115A	COSMOS 136	2624	USSR	19 DEC	27 DEC 66	
1966 115B		2625	USSR	19 DEC	28 DEC 66	
1966 116A	LUNA 13	2626	USSR	21 DEC	24 DEC 66	R*
1966 116B		2628	USSR	21 DEC	23 DEC 66	
1966 116C		2629	USSR	21 DEC	22 DEC 66	
1966 117A	COSMOS 137	2627	USSR	21 DEC	23 NOV 67	
1966 117B		2630	USSR	21 DEC	25 SEP 67	
1966 118A		2634	US	29 DEC	5 APR 69	
1966 118B		2635	US	29 DEC	23 MAR 67	
1966 118C		2636	US	29 DEC	23 MAR 67	
1967 LAUNCHES						
1967 001B		2640	US	11 JAN	13 APR 67	AA*
1967 001C		2641	US	11 JAN	24 FEB 67	

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INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967 LAUNCHES (CONT.)						
1967 001E		4901	US	11 JAN	9 FEB 71	
1967 001F		5122	US	11 JAN	30 APR 72	
1967 001G		5123	US	11 JAN	6 OCT 71	
1967 001H		5245	US	11 JAN	17 JUN 71	
1967 001J		5269	US	11 JAN	29 OCT 78	
1967 001K		5333	US	11 JAN	14 OCT 71	
1967 001L		5735	US	11 JAN	9 MAR 73	
1967 001M		5766	US	11 JAN	20 JAN 72	
1967 001N		5951	US	11 JAN	26 JUN 73	
1967 001P		5960	US	11 JAN	26 JUN 73	
1967 001Q		5961	US	11 JAN	26 JUN 73	
1967 001R		5969	US	11 JAN	14 SEP 75	
1967 001U		5989	US	11 JAN	7 NOV 76	
1967 002A		2642	US	14 JAN	2 FEB 67	
1967 002B		2662	US	14 JAN	28 JAN 67	
1967 004A	COSMOS 138	2646	USSR	19 JAN	27 JAN 67	
1967 004B		2648	USSR	19 JAN	28 JAN 67	
1967 005A	COSMOS 139	2656	USSR	25 JAN	25 JAN 67	
1967 005B		2658	USSR	25 JAN	25 JAN 67	
1967 005C		2659	USSR	25 JAN	25 JAN 67	
1967 007A		2664	US	2 FEB	12 FEB 67	
1967 007B		2665	US	2 FEB	4 FEB 67	
1967 008A	LUNAR ORBITER 3	2666	US	5 FEB	9 OCT 67	
1967 009A	COSMOS 140	2667	USSR	7 FEB	9 FEB 67	
1967 009B		2668	USSR	7 FEB	8 FEB 67	
1967 011C		2673	FRANCE	8 FEB	13 DEC 67	AB*
1967 011D		2675	FRANCE	8 FEB	3 JAN 68	
1967 011E		2676	FRANCE	8 FEB	5 DEC 67	
1967 011F		2677	FRANCE	8 FEB	12 FEB 68	
1967 011G		2688	FRANCE	8 FEB	22 JUN 80	
1967 011J		2690	FRANCE	8 FEB	8 MAY 68	
1967 011K		2691	FRANCE	8 FEB	29 OCT 67	
1967 011M		2900	FRANCE	8 FEB	23 MAY 80	
1967 011N		2990	FRANCE	8 FEB	7 FEB 80	
1967 011P		3742	FRANCE	8 FEB	27 AUG 80	
1967 011Q		4009	FRANCE	8 FEB	12 NOV 82	
1967 012A	COSMOS 141	2670	USSR	8 FEB	16 FEB 67	
1967 012B		2672	USSR	8 FEB	16 FEB 67	
1967 013A	COSMOS 142	2678	USSR	14 FEB	6 JUL 67	
1967 013B		2679	USSR	14 FEB	15 JUN 67	
1967 014D		2681	FRANCE	15 FEB	16 SEP 68	
1967 014E		2683	FRANCE	15 FEB	12 NOV 82	
1967 014G		3589	FRANCE	15 FEB	20 NOV 79	
1967 014H		3935	FRANCE	15 FEB	2 AUG 81	
1967 015A		2686	US	22 FEB	11 MAR 67	
1967 016A		2687	US	24 FEB	6 MAR 67	
1967 017A	COSMOS 143	2693	USSR	27 FEB	7 MAR 67	
1967 017B		2694	USSR	27 FEB	9 MAR 67	
1967 018A	COSMOS 144	2695	USSR	28 FEB	14 SEP 82	
1967 018C		3095	USSR	28 FEB	8 APR 71	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967 LAUNCHES (CONT.)						
1967 019A	COSMOS 145	2697	USSR	3 MAR	8 MAR 68	
1967 019B		2698	USSR	3 MAR	1 DEC 67	
1967 020A	OSO 3	2703	US	8 MAR	4 APR 82	
1967 020B		2704	US	8 MAR	19 APR 70	
1967 020C		2987	US	8 MAR	30 JAN 70	
1967 021A	COSMOS 146	2705	USSR	10 MAR	18 MAR 67	
1967 021B		2709	USSR	10 MAR	19 MAR 67	
1967 021C		2815	USSR	10 MAR	11 MAR 67	
1967 022A	COSMOS 147	2710	USSR	13 MAR	21 MAR 67	
1967 022B		2711	USSR	13 MAR	22 MAR 67	
1967 023A	COSMOS 148	2712	USSR	16 MAR	7 MAY 67	
1967 023B		2713	USSR	16 MAR	14 APR 67	
1967 024A	COSMOS 149	2714	USSR	21 MAR	7 APR 67	
1967 024B		2716	USSR	21 MAR	24 MAR 67	AC*
1967 024C		2724	USSR	21 MAR	26 MAR 67	
1967 024D		2725	USSR	21 MAR	26 MAR 67	
1967 024E		2726	USSR	21 MAR	27 MAR 67	
1967 024F		2727	USSR	21 MAR	27 MAR 67	
1967 024G		2728	USSR	21 MAR	27 MAR 67	
1967 024H		2729	USSR	21 MAR	12 APR 67	
1967 024J		2730	USSR	21 MAR	3 APR 67	
1967 024K		2731	USSR	21 MAR	3 APR 67	
1967 024L		2732	USSR	21 MAR	9 APR 67	
1967 024M		2733	USSR	21 MAR	28 MAR 67	
1967 024N		2734	USSR	21 MAR	28 MAR 67	
1967 024P		2737	USSR	21 MAR	27 MAR 67	
1967 024Q		2738	USSR	21 MAR	27 MAR 67	
1967 024R		2739	USSR	21 MAR	27 MAR 67	
1967 024S		2748	USSR	21 MAR	31 MAR 67	
1967 024T		2749	USSR	21 MAR	4 APR 67	
1967 025A	COSMOS 150	2715	USSR	22 MAR	30 MAR 67	
1967 025B		2718	USSR	22 MAR	30 MAR 67	
1967 026B		2719	US	23 MAR	7 JUL 67	
1967 026C		11984	US	23 MAR	20 JUN 81	
1967 027C		2776	USSR	24 MAR	28 NOV 67	
1967 027D		2797	USSR	24 MAR	12 OCT 70	
1967 028A	COSMOS 152	2722	USSR	25 MAR	5 AUG 67	
1967 028B		2723	USSR	25 MAR	22 MAY 67	
1967 029A		2736	US	30 MAR	17 APR 67	
1967 030A	COSMOS 153	2740	USSR	4 APR	12 APR 67	
1967 030B		2742	USSR	4 APR	11 APR 67	
1967 031A	ATS 2	2743	US	6 APR	2 SEP 69	
1967 031B		2744	US	6 APR	29 JUN 68	
1967 032A	COSMOS 154	2745	USSR	8 APR	10 APR 67	
1967 032B		2747	USSR	8 APR	9 APR 67	
1967 032C		2746	USSR	8 APR	19 APR 67	
1967 033A	COSMOS 155	2750	USSR	12 APR	20 APR 67	
1967 033B		2751	USSR	12 APR	16 APR 67	
1967 033C		2752	USSR	12 APR	13 APR 67	
1967 033D		2753	USSR	12 APR	16 APR 67	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967 LAUNCHES (CONT.)						
1967 034F		6718	US	14 APR	6 MAR 80	
1967 034G		7670	US	14 APR	2 MAY 81	
1967 035A	SURVEYOR 3	2756	US	17 APR	20 APR 67	T*
1967 037A	SOYUZ 1	2759	USSR	23 APR	24 APR 67	AD*
1967 037B		2760	USSR	23 APR	24 APR 67	
1967 038A	SAN MARCO 2	2761	ITALY	26 APR	14 OCT 67	
1967 038B		2771	US	26 APR	29 MAY 67	
1967 041A	LUNAR ORBITER 4	2772	US	4 MAY	6 OCT 67	G*
1967 042A	ARIEL 3	2773	UK	5 MAY	14 DEC 70	
1967 042B		2774	US	5 MAY	5 DEC 70	
1967 042C		2859	US	5 MAY	5 MAY 68	
1967 042D		2860	US	5 MAY	9 MAR 68	
1967 043A		2779	US	9 MAY	13 JUL 67	
1967 043C		2824	US	9 MAY	6 JUN 67	
1967 044A	COSMOS 157	2781	USSR	12 MAY	20 MAY 67	
1967 044B		2782	USSR	12 MAY	24 MAY 67	
1967 044C		2783	USSR	12 MAY	13 MAY 67	
1967 044D		2784	USSR	12 MAY	12 MAY 67	
1967 044E		2785	USSR	12 MAY	14 MAY 67	
1967 046A	COSMOS 159	2805	USSR	17 MAY	11 NOV 77	
1967 046B		2804	USSR	17 MAY	29 MAY 67	
1967 046C		2803	USSR	17 MAY	2 JUN 67	
1967 046D		2808	USSR	17 MAY	22 MAY 67	
1967 046E		2809	USSR	17 MAY	22 MAY 67	
1967 046F		2924	USSR	17 MAY	14 APR 78	
1967 047A	COSMOS 160	2806	USSR	17 MAY	18 MAY 67	
1967 047B		2810	USSR	17 MAY	18 MAY 67	
1967 049A	COSMOS 161	2812	USSR	22 MAY	30 MAY 67	
1967 049B		2814	USSR	22 MAY	28 MAY 67	
1967 050A		2813	US	22 MAY	30 MAY 67	
1967 050B		2816	US	22 MAY	27 MAY 67	
1967 051A	EXPLORER 34	2817	US	24 MAY	3 MAY 69	
1967 052A	MOLNIYA 1-5	2822	USSR	24 MAY	26 NOV 71	
1967 052B		2818	USSR	24 MAY	5 JUN 67	
1967 052C		2819	USSR	24 MAY	15 JUN 67	
1967 052D		2820	USSR	24 MAY	28 MAY 67	
1967 052E		2821	USSR	24 MAY	28 MAY 67	
1967 052F		3224	USSR	24 MAY	16 DEC 71	
1967 052G		5439	USSR	24 MAY	1 SEP 71	
1967 054A	COSMOS 162	2827	USSR	1 JUN	9 JUN 67	
1967 054B		2829	USSR	1 JUN	4 JUN 67	
1967 054C		2830	USSR	1 JUN	2 JUN 67	
1967 055A		2831	US	4 JUN	12 JUN 67	
1967 055B		2835	US	4 JUN	6 JUN 67	
1967 056A	COSMOS 163	2832	USSR	5 JUN	11 OCT 67	
1967 056B		2833	USSR	5 JUN	12 SEP 67	
1967 057A		2836	USSR	8 JUN	14 JUN 67	
1967 057B		2837	USSR	8 JUN	17 JUN 67	
1967 057C		2838	USSR	8 JUN	9 JUN 67	
1967 058A	VENERA 4	2840	USSR	12 JUN	18 OCT 67	N*

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967 LAUNCHES (CONT.)						
1967 058B		2841	USSR	12 JUN	13 JUN 67	
1967 058C		2839	USSR	12 JUN	13 JUN 67	
1967 058D		2844	USSR	12 JUN	13 JUN 67	
1967 059A	COSMOS 165	2842	USSR	12 JUN	15 JAN 68	
1967 059B		2843	USSR	12 JUN	1 NOV 67	
1967 061A		2848	USSR	16 JUN	25 OCT 67	
1967 061B		2849	USSR	16 JUN	11 OCT 67	
1967 062A		2850	US	16 JUN	20 JUL 67	
1967 062B		2851	US	16 JUN	22 OCT 68	
1967 063A	COSMOS 167	2852	USSR	17 JUN	25 JUN 67	
1967 063B		2853	USSR	17 JUN	21 JUN 67	
1967 063C		2856	USSR	17 JUN	26 JUN 67	
1967 063D		2854	USSR	17 JUN	18 JUN 67	
1967 063E		2855	USSR	17 JUN	19 JUN 67	
1967 063F		2857	USSR	17 JUN	28 JUN 67	
1967 064A		2858	US	20 JUN	30 JUN 67	
1967 067A	COSMOS 168	2869	USSR	4 JUL	12 JUL 67	
1967 067B		2870	USSR	4 JUL	8 JUL 67	
1967 067C		2871	USSR	4 JUL	8 JUL 67	
1967 068A	SURVEYOR 4	2875	US	14 JUL	17 JUL 67	G*
1967 069A	COSMOS 169	2878	USSR	17 JUL	17 JUL 67	
1967 069B		2879	USSR	17 JUL	18 JUL 67	
1967 069C		2880	USSR	17 JUL	18 JUL 67	
1967 069D		2881	USSR	17 JUL	18 JUL 67	
1967 069E		2882	USSR	17 JUL	18 JUL 67	
1967 070B		2835	US	19 JUL	31 AUG 67	
1967 071A		2890	US	25 JUL	5 JUN 69	
1967 071B		2891	US	25 JUL	21 AUG 67	
1967 071C		2892	US	25 JUL	16 OCT 67	
1967 071D		2978	US	25 JUL	17 OCT 67	
1967 072A	OV1-86	2893	US	27 JUL	22 FEB 72	
1967 072B		2894	US	27 JUL	15 NOV 70	
1967 072C		2897	US	27 JUL	2 MAY 77	
1967 072D	OV1-12	2901	US	27 JUL	22 JUL 80	
1967 072E		2918	US	27 JUL	2 NOV 67	
1967 073A	OGO 4	2895	US	28 JUL	16 AUG 72	
1967 073B		2896	US	28 JUL	15 MAY 74	
1967 074A	COSMOS 170	2902	USSR	31 JUL	31 JUL 67	
1967 074B		2903	USSR	31 JUL	1 AUG 67	
1967 074C		2904	USSR	31 JUL	1 AUG 67	
1967 074D		2905	USSR	31 JUL	2 AUG 67	
1967 074E		2906	USSR	31 JUL	1 AUG 67	
1967 075A	LUNAR ORBITER 5	2907	US	1 AUG	31 JAN 68	G*
1967 076A		2910	US	7 AUG	1 SEP 67	
1967 076B		2923	US	7 AUG	25 AUG 67	
1967 077A	COSMOS 171	2911	USSR	8 AUG	8 AUG 67	
1967 077B		2912	USSR	8 AUG	9 AUG 67	
1967 077C		2913	USSR	8 AUG	9 AUG 67	
1967 077D		2915	USSR	8 AUG	8 AUG 67	
1967 077E		2916	USSR	8 AUG	9 AUG 67	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967 LAUNCHES (CONT.)						
1967 078A	COSMOS 172	2914	USSR	9 AUG	17 AUG 67	
1967 078B		2917	USSR	9 AUG	13 AUG 67	
1967 079A		2919	US	16 AUG	29 AUG 67	
1967 081A	COSMOS 173	2921	USSR	24 AUG	17 DEC 67	
1967 081B		2922	USSR	24 AUG	30 OCT 67	
1967 082A	COSMOS 174	2925	USSR	31 AUG	30 DEC 68	
1967 082B		2926	USSR	31 AUG	19 SEP 67	
1967 082C		2927	USSR	31 AUG	15 SEP 67	
1967 082D		2923	USSR	31 AUG	5 SEP 67	
1967 083A	BIOSATELLITE 2	2935	US	7 SEP	4 OCT 67	
1967 083A	CAPSULE	NNA	US	7 SEP	9 SEP 67	
1967 083B		2936	US	7 SEP	19 JAN 68	
1967 084A	SURVEYOR 5	2937	US	8 SEP	11 SEP 67	T*
1967 085A	COSMOS 175	2939	USSR	11 SEP	19 SEP 67	
1967 085B		2941	USSR	11 SEP	23 SEP 67	
1967 085C		2943	USSR	11 SEP	13 SEP 67	
1967 086A	COSMOS 176	2942	USSR	12 SEP	3 MAR 68	
1967 086B		2945	USSR	12 SEP	12 DEC 67	
1967 086C		2944	USSR	12 SEP	4 OCT 67	
1967 086D		2956	USSR	12 SEP	21 SEP 67	
1967 086E		2957	USSR	12 SEP	6 APR 68	
1967 086F		2958	USSR	12 SEP	12 MAR 75	
1967 086G		2959	USSR	12 SEP	2 APR 68	
1967 086H		2960	USSR	12 SEP	3 OCT 67	
1967 086J		2961	USSR	12 SEP	6 OCT 67	
1967 086K		2979	USSR	12 SEP	13 JAN 68	
1967 086L		2983	USSR	12 SEP	4 NOV 67	
1967 086M		2984	USSR	12 SEP	31 OCT 67	
1967 087A		2946	US	15 SEP	4 OCT 67	
1967 088A	COSMOS 177	2947	USSR	16 SEP	24 SEP 67	
1967 088B		2948	USSR	16 SEP	19 SEP 67	
1967 089A	COSMOS 178	2951	USSR	19 SEP	19 SEP 67	
1967 089B		2953	USSR	19 SEP	20 SEP 67	
1967 089C		2954	USSR	19 SEP	19 SEP 67	
1967 089D		2955	USSR	19 SEP	19 SEP 67	
1967 090A		2952	US	19 SEP	30 SEP 67	
1967 091A	COSMOS 179	2962	USSR	22 SEP	22 SEP 67	
1967 091B		2963	USSR	22 SEP	23 SEP 67	
1967 091C		2964	USSR	22 SEP	22 SEP 67	
1967 093A	COSMOS 180	2966	USSR	26 SEP	4 OCT 67	
1967 093B		2968	USSR	25 SEP	5 OCT 67	
1967 094B		2970	US	28 SEP	26 DEC 67	
1967 094D		2972	US	28 SEP	27 OCT 67	
1967 095A	MOLNIYA 1-6	2973	USSR	3 OCT	4 MAR 69	
1967 095B		2974	USSR	3 OCT	17 OCT 67	
1967 095C		2975	USSR	3 OCT	21 OCT 67	
1967 095D		3225	USSR	3 OCT	10 FEB 69	
1967 097A	COSMOS 181	2981	USSR	11 OCT	18 OCT 67	
1967 097B		2982	USSR	11 OCT	19 OCT 67	
1967 098A	COSMOS 182	2995	USSR	16 OCT	24 OCT 67	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967 LAUNCHES (CONT.)						
1967 098B		2996	USSR	16 OCT	24 OCT 67	
1967 098C		2999	USSR	16 OCT	24 OCT 67	
1967 099A	COSMOS 183	3001	USSR	18 OCT	18 OCT 67	
1967 099B		3002	USSR	18 OCT	19 OCT 67	
1967 099C		3003	USSR	18 OCT	18 OCT 67	
1967 100A	OSO 4	3000	US	18 OCT	15 JUN 82	
1967 100B		3004	US	18 OCT	2 MAY 80	
1967 101A	MOLNIYA 1-7	3008	USSR	22 OCT	31 DEC 69	
1967 101B		3005	USSR	22 OCT	7 NOV 67	
1967 101C		3006	USSR	22 OCT	3 NOV 67	
1967 101D		3007	USSR	22 OCT	28 OCT 67	
1967 101E		3009	USSR	22 OCT	27 OCT 67	
1967 101F		3226	USSR	22 OCT	16 JAN 70	
1967 103A		3012	US	25 OCT	5 NOV 67	
1967 104A	COSMOS 185	3013	USSR	27 OCT	14 JAN 69	
1967 105A	COSMOS 186	3014	USSR	27 OCT	31 OCT 67	
1967 105B		3015	USSR	27 OCT	29 OCT 67	
1967 106A	COSMOS 187	3016	USSR	28 OCT	28 OCT 67	
1967 106B		3017	USSR	28 OCT	28 OCT 67	
1967 106C		3018	USSR	28 OCT	28 OCT 67	
1967 107A	COSMOS 188	3020	USSR	30 OCT	2 NOV 67	
1967 107B		3022	USSR	30 OCT	2 NOV 67	
1967 108A	COSMOS 189	3021	USSR	30 OCT	8 JUN 78	
1967 108B		3023	USSR	30 OCT	7 MAR 80	
1967 108C		3028	USSR	30 OCT	18 JUN 68	
1967 108D		3041	USSR	30 OCT	23 DEC 67	
1967 108E		3042	USSR	30 OCT	24 JUN 68	
1967 108F		6362	USSR	30 OCT	27 FEB 74	
1967 108G		6696	USSR	30 OCT	27 FEB 74	
1967 108H		6697	USSR	30 OCT	29 MAR 77	
1967 108J		6698	USSR	30 OCT	13 MAY 74	
1967 108K		6699	USSR	30 OCT	29 MAR 74	
1967 108L		6701	USSR	30 OCT	10 FEB 74	
1967 109A		3024	US	2 NOV	2 DEC 67	
1967 109B		3025	US	2 NOV	28 MAR 69	
1967 110A	COSMOS 190	3026	USSR	3 NOV	11 NOV 67	
1967 110B		3027	USSR	3 NOV	9 NOV 67	
1967 111B		3030	US	5 NOV	8 AUG 68	
1967 112A	SURVEYOR 6	3031	US	7 NOV	10 NOV 67	T*
1967 113A	APOLLO 4	3032	US	9 NOV	9 NOV 67	8*
1967 113B		3033	US	9 NOV	9 NOV 67	
1967 115A	COSMOS 191	3043	USSR	21 NOV	2 MAR 68	
1967 115B		3044	USSR	21 NOV	14 JAN 68	
1967 117A	COSMOS 193	3052	USSR	25 NOV	3 DEC 67	
1967 117B		3053	USSR	25 NOV	1 DEC 68	
1967 118A	WRESAT	3054	AUSTRL	29 NOV	10 JAN 68	
1967 119A	COSMOS 194	3055	USSR	3 DEC	11 DEC 67	
1967 119B		3056	USSR	3 DEC	9 DEC 67	
1967 120A	OV3-6	3057	US	5 DEC	9 MAR 69	
1967 120B		3059	US	5 DEC	8 APR 68	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967 LAUNCHES (CONT.)						
1967 120C		3060	US	5 DEC	18 JUN 68	
1967 120D		3061	US	5 DEC	25 DEC 67	
1967 120E		3062	US	5 DEC	27 MAR 68	
1967 121A		3058	US	5 DEC	16 DEC 67	
1967 122A		3063	US	9 DEC	25 DEC 67	
1967 123B	IATS 1	3067	US	13 DEC	28 APR 68	
1967 123C		3068	US	13 DEC	1 APR 68	
1967 123D		3069	US	13 DEC	12 FEB 68	
1967 123E		3070	US	13 DEC	12 FEB 68	
1967 124A	COSMOS 195	3071	USSR	16 DEC	23 DEC 67	
1967 124B		3072	USSR	16 DEC	23 DEC 67	
1967 124C		3073	USSR	16 DEC	18 DEC 67	
1967 125A	COSMOS 196	3074	USSR	19 DEC	7 JUL 68	
1967 125B		3075	USSR	19 DEC	20 FEB 68	
1967 125C		3076	USSR	19 DEC	7 JAN 68	
1967 125D		3077	USSR	19 DEC	7 JAN 68	
1967 125E		3078	USSR	19 DEC	7 JAN 68	
1967 126A	COSMOS 197	3079	USSR	26 DEC	30 JAN 68	
1967 126B		3080	USSR	26 DEC	8 JAN 68	
1967 126C		3083	USSR	26 DEC	10 JAN 68	
1967 126D		3084	USSR	26 DEC	5 JAN 68	
1967 126E		3085	USSR	26 DEC	18 JAN 68	
1967 126F		3086	USSR	26 DEC	26 JAN 68	
1967 126G		3087	USSR	26 DEC	3 JAN 68	
1967 126H		3089	USSR	26 DEC	30 DEC 67	
1967 126J		3090	USSR	26 DEC	30 DEC 67	
1967 127B		3082	USSR	27 DEC	21 JAN 68	
1967 127C		3088	USSR	27 DEC	31 DEC 67	
1968 LAUNCHES						
1968 001A	SURVEYOR 7	3091	US	7 JAN	10 JAN 68	T*
1968 003A	COSMOS 199	3099	USSR	16 JAN	1 FEB 68	
1968 003B		3096	USSR	16 JAN	25 JAN 68	
1968 003C		3115	USSR	16 JAN	30 JAN 68	
1968 003D		3117	USSR	16 JAN	3 FEB 68	
1968 004A		3097	US	17 JAN	7 JUL 70	
1968 004B		3101	US	17 JAN	29 MAR 68	
1968 004C		3116	US	17 JAN	22 MAR 68	
1968 005A		3098	US	18 JAN	4 FEB 68	
1968 006A	COSMOS 200	3100	USSR	19 JAN	24 FEB 73	
1968 006B		3102	USSR	19 JAN	4 FEB 72	
1968 006C		3103	USSR	19 JAN	30 SEP 80	
1968 006D		3104	USSR	19 JAN	6 APR 68	
1968 006E		3109	USSR	19 JAN	11 APR 68	
1968 006F		3110	USSR	19 JAN	16 JUN 68	
1968 006G		3111	USSR	19 JAN	15 APR 68	
1968 006H		3112	USSR	19 JAN	16 JUN 68	
1968 007A	LM-1/ASCENT	3106	US	22 JAN	24 JAN 68	
1968 007B	LM-1/DESCENT	3107	US	22 JAN	12 FEB 68	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CONT.)						
1968 007C		3108	US	22 JAN	23 JAN 68	
1968 008A		3113	US	24 JAN	27 FEB 68	
1968 008B		3114	US	24 JAN	4 MAR 70	
1968 008C		3120	US	24 JAN	12 FEB 68	
1968 009A	COSMOS 201	3118	USSR	6 FEB	14 FEB 68	
1968 009B		3119	USSR	6 FEB	13 FEB 68	
1968 010A	COSMOS 202	3128	USSR	20 FEB	24 MAR 68	
1968 010B		3130	USSR	20 FEB	4 MAR 68	
1968 011C		3147	USSR	20 FEB	27 MAY 82	
1968 013B		3135	USSR	2 MAR	7 MAR 68	
1968 013C		3136	USSR	2 MAR	7 MAR 68	
1968 013D		3144	USSR	2 MAR	5 MAR 68	
1968 015A	COSMOS 204	3139	USSR	5 MAR	2 MAR 69	
1968 015B		3143	USSR	5 MAR	13 OCT 68	
1968 016A	COSMOS 205	3140	USSR	5 MAR	13 MAR 68	
1968 016B		3142	USSR	5 MAR	9 MAR 68	
1968 017B		3146	US	5 MAR	25 DEC 80	
1968 017C		3215	US	5 MAR	11 APR 69	
1968 017E		5743	US	5 MAR	25 OCT 77	
1968 018A		3148	US	13 MAR	24 MAR 68	
1968 020A		3152	US	14 MAR	10 APR 68	
1968 020B		3153	US	14 MAR	3 JAN 70	
1968 021A	COSMOS 207	3154	USSR	16 MAR	24 MAR 68	
1968 021B		3155	USSR	16 MAR	22 MAR 68	
1968 022A	COSMOS 208	3156	USSR	21 MAR	2 APR 68	
1968 022B		3157	USSR	21 MAR	25 MAR 68	
1968 022C		3167	USSR	21 MAR	6 APR 68	
1968 023B		3160	USSR	22 MAR	29 MAR 68	
1968 023C		3161	USSR	22 MAR	25 MAR 68	
1968 023D		3162	USSR	22 MAR	10 APR 68	
1968 023E		3165	USSR	22 MAR	4 MAY 68	
1968 024A	COSMOS 210	3168	USSR	3 APR	11 APR 68	
1968 024B		3169	USSR	3 APR	12 APR 68	
1968 024C		3172	USSR	3 APR	5 APR 68	
1968 025A	APOLLO 6	3170	US	4 APR	4 APR 68	
1968 025B		3171	US	4 APR	25 APR 68	AE*
1968 025C		3185	US	4 APR	28 APR 68	
1968 025D		3186	US	4 APR	5 MAY 68	
1968 025E		3187	US	4 APR	3 SEP 68	
1968 025F		3188	US	4 APR	29 APR 68	
1968 025G		3189	US	4 APR	20 APR 68	
1968 025H		3190	US	4 APR	17 APR 68	
1968 025J		3191	US	4 APR	17 APR 68	
1968 025K		3192	US	4 APR	17 APR 68	
1968 025L		3195	US	4 APR	1 MAY 68	
1968 025M		3196	US	4 APR	22 APR 68	
1968 025N		3197	US	4 APR	16 APR 68	
1968 025P		3198	US	4 APR	17 APR 68	
1968 025Q		3200	US	4 APR	17 APR 68	
1968 025R		3201	US	4 APR	16 APR 68	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CONT.)						
1968 025S		3202	US	4 APR	17 APR 68	
1968 027B		3179	USSR	7 APR	9 APR 68	
1968 027C		3180	USSR	7 APR	9 APR 68	
1968 028A	COSMOS 211	3181	USSR	9 APR	10 NOV 68	
1968 028B		3182	USSR	9 APR	17 AUG 68	
1968 029A	COSMOS 212	3183	USSR	14 APR	19 APR 68	
1968 029B		3184	USSR	14 APR	16 APR 68	
1968 030A	COSMOS 213	3193	USSR	15 APR	20 APR 68	
1968 030B		3194	USSR	15 APR	19 APR 68	
1968 031A		3199	US	17 APR	29 APR 68	
1968 032A	COSMOS 214	3203	USSR	18 APR	26 APR 68	
1968 032B		3204	USSR	18 APR	29 APR 68	
1968 033A	COSMOS 215	3205	USSR	18 APR	30 JUN 68	
1968 033B		3206	USSR	18 APR	19 MAY 68	
1968 034A	COSMOS 216	3207	USSR	20 APR	28 APR 68	
1968 034B		3208	USSR	20 APR	23 APR 68	
1968 035A	MOLNIYA 1-8	3209	USSR	21 APR	29 JAN 74	
1968 035B		3211	USSR	21 APR	11 MAY 68	
1968 035C		3210	USSR	21 APR	29 MAY 68	
1968 035D		3514	USSR	21 APR	9 JUL 74	
1968 036A	COSMOS 217	3216	USSR	24 APR	26 APR 68	
1968 037A	COSMOS 218	3217	USSR	25 APR	25 APR 68	
1968 037B		3219	USSR	25 APR	25 APR 68	
1968 037C		3218	USSR	25 APR	25 APR 68	
1968 038A	COSMOS 219	3220	USSR	26 APR	2 MAR 69	
1968 038B		3221	USSR	26 APR	24 FEB 69	
1968 038C		3227	USSR	26 APR	3 JUN 68	
1968 039A		3228	US	1 MAY	15 MAY 68	
1968 039B		3232	US	1 MAY	20 MAY 68	
1968 041A	IRIS	3233	ESRO	17 MAY	8 MAY 71	
1968 041B		3234	US	17 MAY	31 MAR 70	
1968 041C		3265	US	17 MAY	4 NOV 68	
1968 043A	COSMOS 221	3269	USSR	24 MAY	31 AUG 69	
1968 043B		3270	USSR	24 MAY	13 APR 69	
1968 044A	COSMOS 222	3272	USSR	30 MAY	11 OCT 68	
1968 044B		3273	USSR	30 MAY	13 AUG 68	
1968 045A	COSMOS 223	3274	USSR	1 JUN	9 JUN 68	
1968 045B		3275	USSR	1 JUN	9 JUN 68	
1968 046A	COSMOS 224	3276	USSR	4 JUN	12 JUN 68	
1968 046B		3277	USSR	4 JUN	7 JUN 68	
1968 047A		3278	US	5 JUN	17 JUN 68	
1968 048A	COSMOS 225	3279	USSR	11 JUN	2 NOV 68	
1968 048B		3280	USSR	11 JUN	15 AUG 68	
1968 048C		3281	USSR	11 JUN	19 JUN 68	
1968 048D		3293	USSR	11 JUN	21 JUN 68	
1968 049A	COSMOS 226	3282	USSR	12 JUN	18 OCT 83	
1968 051A	COSMOS 227	3294	USSR	18 JUN	26 JUN 68	
1968 051B		3295	USSR	18 JUN	21 JUN 68	
1968 052A		3296	US	20 JUN	16 JUL 68	
1968 052B		3297	US	20 JUN	11 JAN 70	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CONT.)						
1968 053A	COSMOS 228	3298	USSR	21 JUN	3 JUL 68	
1968 053B		3300	USSR	21 JUN	24 JUN 68	
1968 053C		3299	USSR	21 JUN	23 JUN 68	
1968 053D		3301	USSR	21 JUN	23 JUN 68	
1968 053E		3302	USSR	21 JUN	23 JUN 68	
1968 053F		3303	USSR	21 JUN	23 JUN 68	
1968 053G		3306	USSR	21 JUN	7 JUL 68	
1968 054A	COSMOS 229	3304	USSR	26 JUN	4 JUL 68	
1968 054B		3305	USSR	26 JUN	4 JUL 68	
1968 056A	COSMOS 230	3308	USSR	5 JUL	2 NOV 68	
1968 056B		3309	USSR	5 JUL	16 OCT 68	
1968 057A	MOLNIYA 1-9	3310	USSR	6 JUL	15 MAY 71	
1968 057B		3311	USSR	6 JUL	9 AUG 68	
1968 057C		3312	USSR	6 JUL	22 AUG 68	
1968 057D		3313	USSR	6 JUL	8 JUL 68	
1968 057E		3314	USSR	6 JUL	18 JUL 68	
1968 057F		3515	USSR	6 JUL	2 SEP 70	
1968 058A	COSMOS 231	3316	USSR	10 JUL	18 JUL 68	
1968 058B		3317	USSR	10 JUL	20 JUL 68	
1968 059A	OV1-15	3318	US	11 JUL	6 NOV 68	
1968 059B	OV1-16	3319	US	11 JUL	19 AUG 68	
1968 059C		3320	US	11 JUL	16 AUG 68	
1968 059D		3321	US	11 JUL	16 JUL 68	
1968 060A	COSMOS 232	3322	USSR	16 JUL	24 JUL 68	
1968 060B		3323	USSR	16 JUL	26 JUL 68	
1968 061A	COSMOS 233	3326	USSR	18 JUL	7 FEB 69	
1968 061B		3327	USSR	18 JUL	1 JAN 69	
1968 062A	COSMOS 234	3332	USSR	30 JUL	5 AUG 68	
1968 062B		3333	USSR	30 JUL	7 AUG 68	
1968 064A		3335	US	6 AUG	16 AUG 68	
1968 065A		3336	US	7 AUG	27 AUG 68	
1968 066A	EXPLORER 39	3337	US	8 AUG	22 JUN 81	
1968 067A	COSMOS 235	3339	USSR	9 AUG	17 AUG 68	
1968 067B		3340	USSR	9 AUG	14 AUG 68	
1968 068A	ATS 4	3344	US	10 AUG	17 OCT 68	
1968 070B		3349	USSR	27 AUG	8 OCT 82	
1968 071A	COSMOS 237	3348	USSR	27 AUG	4 SEP 68	
1968 071B		3350	USSR	27 AUG	4 SEP 68	
1968 072A	COSMOS 238	3351	USSR	28 AUG	1 SEP 68	
1968 072B		3352	USSR	28 AUG	30 AUG 68	
1968 073A	COSMOS 239	3353	USSR	5 SEP	13 SEP 68	
1968 073B		3354	USSR	5 SEP	9 SEP 68	
1968 074A		3375	US	10 SEP	25 SEP 68	
1968 075A	COSMOS 240	3388	USSR	14 SEP	21 SEP 68	
1968 075B		3389	USSR	14 SEP	17 SEP 68	
1968 076A	ZOND 5	3394	USSR	14 SEP	21 SEP 68	C*
1968 076B		3395	USSR	14 SEP	16 SEP 68	
1968 076C		3396	USSR	14 SEP	18 SEP 68	
1968 076D		3397	USSR	14 SEP	16 SEP 68	
1968 077A	COSMOS 241	3398	USSR	16 SEP	24 SEP 68	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CONT.)						
1968 077B		3399	USSR	16 SEP	22 SEP 68	
1968 078A		3408	US	18 SEP	8 OCT 68	
1968 078B		3409	US	18 SEP	28 SEP 69	
1968 079A	COSMOS 242	3414	USSR	20 SEP	13 NOV 68	
1968 079B		3415	USSR	20 SEP	22 OCT 68	
1968 080A	COSMOS 243	3418	USSR	23 SEP	4 OCT 68	
1968 080B		3419	USSR	23 SEP	29 SEP 68	
1968 080C		3452	USSR	23 SEP	12 OCT 68	
1968 081B	ERS 28	3429	US	26 SEP	15 FEB 71	
1968 081F		5999	US	26 SEP	14 MAR 75	
1968 082A	COSMOS 244	3449	USSR	2 OCT	2 OCT 68	
1968 082B		3451	USSR	2 OCT	3 OCT 68	
1968 082C		3450	USSR	2 OCT	2 OCT 68	
1968 083A	COSMOS 245	3457	USSR	3 OCT	15 JAN 69	
1968 083B		3458	USSR	3 OCT	16 NOV 68	
1968 084A	ESRO 1	3459	ESRO	3 OCT	26 JUN 70	
1968 084B		3460	US	3 OCT	13 AUG 69	
1968 084C		3479	US	3 OCT	12 APR 69	
1968 084D		3916	US	3 OCT	9 MAY 69	
1968 085A	MOLNIYA 1-10	3469	USSR	5 OCT	16 JUL 76	
1968 085B		3470	USSR	5 OCT	30 OCT 68	
1968 085C		3471	USSR	5 OCT	4 NOV 68	
1968 085D		3513	USSR	5 OCT	7 MAY 75	
1968 086A		3472	US	5 OCT	26 MAR 71	
1968 087A	COSMOS 246	3473	USSR	7 OCT	12 OCT 68	
1968 087B		3474	USSR	7 OCT	8 OCT 68	
1968 088A	COSMOS 247	3484	USSR	11 OCT	19 OCT 68	
1968 088B		3485	USSR	11 OCT	18 OCT 68	
1968 089A	APOLLO 7	3486	US	11 OCT	22 OCT 68	F*
1968 089B		3487	US	11 OCT	18 OCT 68	
1968 090A	COSMOS 248	3503	USSR	19 OCT	26 FEB 80	
1968 090B		3571	USSR	19 OCT	28 DEC 68	
1968 090C		3572	USSR	19 OCT	20 FEB 69	
1968 090D		3573	USSR	19 OCT	6 FEB 69	
1968 090E		3580	USSR	19 OCT	13 DEC 68	
1968 091B		3505	USSR	20 OCT	21 OCT 68	
1968 091G		3518	USSR	20 OCT	13 NOV 79	
1968 091H		3519	USSR	20 OCT	6 MAR 82	
1968 091J		3520	USSR	20 OCT	29 MAY 81	
1968 091K		3521	USSR	20 OCT	6 APR 74	
1968 091N		3525	USSR	20 OCT	19 OCT 81	
1968 091P		3581	USSR	20 OCT	7 SEP 82	
1968 091Q		3582	USSR	20 OCT	28 MAR 80	
1968 091U		3586	USSR	20 OCT	31 MAR 70	
1968 091W		3588	USSR	20 OCT	5 MAY 69	
1968 091AC		3677	USSR	20 OCT	29 MAY 80	
1968 091AD		3678	USSR	20 OCT	7 JUN 81	
1968 091AF		3680	USSR	20 OCT	9 JUN 81	
1968 091AH		3682	USSR	20 OCT	14 DEC 77	
1968 091AK		3693	USSR	20 OCT	5 DEC 76	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CONT.)						
1968 091AM		3697	USSR	20 OCT	3 JAN 78	
1968 091AP		3702	USSR	20 OCT	5 DEC 76	
1968 091AQ		3706	USSR	20 OCT	5 JUL 70	
1968 091AS		3754	USSR	20 OCT	21 MAY 75	
1968 091AW		3789	USSR	20 OCT	2 JUL 75	
1968 091AZ		3792	USSR	20 OCT	13 APR 81	
1968 091BC		3795	USSR	20 OCT	21 MAY 80	
1968 091BD		3796	USSR	20 OCT	23 JAN 77	
1968 091BF		3872	USSR	20 OCT	15 FEB 70	
1968 091BJ		3875	USSR	20 OCT	27 MAY 81	
1968 091BK		3876	USSR	20 OCT	15 JUN 75	
1968 091BM		3909	USSR	20 OCT	16 MAR 75	
1968 091BN		3910	USSR	20 OCT	18 MAY 82	
1968 091BS		3934	USSR	20 OCT	24 AUG 77	
1968 091BT		3959	USSR	20 OCT	29 OCT 79	
1968 091BU		3960	USSR	20 OCT	26 NOV 78	
1968 091BV		3961	USSR	20 OCT	12 NOV 82	
1968 091BX		4002	USSR	20 OCT	3 AUG 70	
1968 091BZ		4500	USSR	20 OCT	12 DEC 70	
1968 091CC		5717	USSR	20 OCT	14 MAY 82	
1968 091CE		6045	USSR	20 OCT	6 MAR 81	
1968 091CK		6764	USSR	20 OCT	27 OCT 79	
1968 093A	SOYUZ 2	3511	USSR	25 OCT	28 OCT 68	
1968 093B		3512	USSR	25 OCT	27 OCT 68	
1968 094A	SOYUZ 3	3516	USSR	26 OCT	30 OCT 68	
1968 094B		3517	USSR	26 OCT	28 OCT 68	
1968 095A	COSMOS 250	3526	USSR	30 OCT	15 FEB 78	
1968 095B		3527	USSR	30 OCT	8 NOV 78	
1968 095C		3659	USSR	30 OCT	8 APR 69	
1968 095D		3660	USSR	30 OCT	5 MAY 69	
1968 095E		3661	USSR	30 OCT	17 APR 69	
1968 095F		3662	USSR	30 OCT	26 MAR 69	
1968 095G		8780	USSR	30 OCT	17 OCT 76	
1968 096A	COSMOS 251	3528	USSR	31 OCT	18 NOV 68	
1968 096B		3529	USSR	31 OCT	2 NOV 68	
1968 096C		3540	USSR	31 OCT	16 NOV 68	
1968 096D		3541	USSR	31 OCT	13 NOV 68	
1968 097J		3556	USSR	1 NOV	20 NOV 82	
1968 097T		3567	USSR	1 NOV	2 MAR 82	
1968 097U		3568	USSR	1 NOV	19 APR 79	
1968 097W		3570	USSR	1 NOV	10 APR 82	
1968 097X		3593	USSR	1 NOV	9 OCT 81	
1968 097Y		3600	USSR	1 NOV	3 NOV 81	
1968 097Z		3601	USSR	1 NOV	30 JUN 80	
1968 097AB		3684	USSR	1 NOV	28 MAR 82	
1968 097AF		3688	USSR	1 NOV	15 SEP 78	
1968 097AG		3689	USSR	1 NOV	13 JUL 74	
1968 097AJ		3694	USSR	1 NOV	28 OCT 80	
1968 097AK		3696	USSR	1 NOV	10 MAR 70	
1968 097AM		3704	USSR	1 NOV	9 SEP 74	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CONT.)						
1968 097AN		3711	USSR	1 NOV	22 APR 69	
1968 097AP		3712	USSR	1 NOV	26 FEB 73	
1968 097AR		3714	USSR	1 NOV	20 DEC 80	
1968 097AS		3715	USSR	1 NOV	14 DEC 76	
1968 097AT		3716	USSR	1 NOV	12 SEP 81	
1968 097AY		3786	USSR	1 NOV	21 DEC 79	
1968 097AZ		3787	USSR	1 NOV	12 NOV 82	
1968 097BB		3813	USSR	1 NOV	3 NOV 81	
1968 097BD		3815	USSR	1 NOV	4 OCT 69	
1968 097BE		3816	USSR	1 NOV	25 JUN 82	
1968 097BF		3817	USSR	1 NOV	7 DEC 82	
1968 097BH		3896	USSR	1 NOV	12 NOV 82	
1968 097BJ		3897	USSR	1 NOV	2 JAN 82	
1968 097BP		3902	USSR	1 NOV	2 DEC 81	
1968 097BQ		3903	USSR	1 NOV	12 NOV 82	
1968 097BR		3904	USSR	1 NOV	24 OCT 79	
1968 097BT		3946	USSR	1 NOV	27 MAY 69	
1968 097BU		3953	USSR	1 NOV	13 APR 81	
1968 097BV		3979	USSR	1 NOV	2 JUL 71	
1968 097BW		3997	USSR	1 NOV	22 NOV 82	
1968 097BX		4010	USSR	1 NOV	10 SEP 69	
1968 097BY		4011	USSR	1 NOV	12 NOV 82	
1968 097BZ		4012	USSR	1 NOV	9 MAR 79	
1968 097CA		4013	USSR	1 NOV	16 OCT 80	
1968 097CD		4030	USSR	1 NOV	2 FEB 82	
1968 097CE		4031	USSR	1 NOV	30 JUL 82	
1968 097CG		5030	USSR	1 NOV	26 FEB 78	
1968 097CK		5334	USSR	1 NOV	23 FEB 72	
1968 097CM		5418	USSR	1 NOV	19 NOV 82	
1968 097CP		5514	USSR	1 NOV	5 JAN 81	
1968 097CQ		5515	USSR	1 NOV	6 FEB 78	
1968 097CR		5516	USSR	1 NOV	10 OCT 79	
1968 097CS		5517	USSR	1 NOV	8 OCT 82	
1968 097CT		5518	USSR	1 NOV	20 NOV 76	
1968 097CU		5592	USSR	1 NOV	22 JUL 79	
1968 097CV		5594	USSR	1 NOV	25 NOV 78	
1968 097CX		5631	USSR	1 NOV	15 OCT 81	
1968 097CY		5632	USSR	1 NOV	9 MAR 73	
1968 097CZ		5749	USSR	1 NOV	12 OCT 76	
1968 097DA		5788	USSR	1 NOV	5 SEP 81	
1968 097DC		5790	USSR	1 NOV	18 AUG 81	
1968 097DE		5827	USSR	1 NOV	19 NOV 82	
1968 097DF		5828	USSR	1 NOV	19 NOV 82	
1968 097DG		5829	USSR	1 NOV	31 MAR 78	
1968 097DH		5830	USSR	1 NOV	21 FEB 79	
1968 097DJ		5870	USSR	1 NOV	20 JUN 81	
1968 097DM		5873	USSR	1 NOV	16 JUN 79	
1968 097DN		5874	USSR	1 NOV	25 OCT 79	
1968 097DP		5875	USSR	1 NOV	9 MAY 81	
1968 097DQ		5889	USSR	1 NOV	19 NOV 82	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CONT.)						
1968 097DR		5890	USSR	1 NOV	1 MAR 77	
1968 097DS		5891	USSR	1 NOV	31 JAN 77	
1968 097DT		5966	USSR	1 NOV	3 JAN 77	
1968 097DU		6175	USSR	1 NOV	27 SEP 75	
1968 098A		3531	US	3 NOV	23 NOV 68	
1968 099A		3532	US	6 NOV	20 NOV 68	
1968 100B	TETR 2	3534	US	8 NOV	19 SEP 79	
1968 100C		3546	US	8 NOV	6 OCT 71	
1968 100D		3547	US	8 NOV	13 APR 78	
1968 100E		3548	US	8 NOV	6 JAN 72	
1968 101A	ZOND 6	3535	USSR	10 NOV	17 NOV 68	C*
1968 101B		3536	USSR	10 NOV	12 NOV 68	
1968 101C		3537	USSR	10 NOV	13 NOV 68	
1968 101D		3538	USSR	10 NOV	13 NOV 68	
1968 101E		3539	USSR	10 NOV	13 NOV 68	
1968 102A	COSMOS 253	3542	USSR	13 NOV	18 NOV 68	
1968 102B		3543	USSR	13 NOV	20 NOV 68	
1968 103A	PROTON 4	3544	USSR	16 NOV	24 JUL 69	
1968 103B		3545	USSR	16 NOV	25 JAN 69	
1968 104A	COSMOS 254	3562	USSR	21 NOV	29 NOV 68	
1968 104B		3563	USSR	21 NOV	27 NOV 68	
1968 105A	COSMOS 255	3574	USSR	29 NOV	7 DEC 68	
1968 105B		3575	USSR	29 NOV	5 DEC 68	
1968 107A	COSMOS 257	3578	USSR	3 DEC	5 MAR 69	
1968 107B		3579	USSR	3 DEC	16 JAN 69	
1968 108A		3594	US	4 DEC	12 DEC 68	
1968 109A	HEOS-A1	3595	ESRO	5 DEC	28 OCT 75	
1968 109B		3596	US	5 DEC	27 DEC 68	
1968 111A	COSMOS 258	3602	USSR	10 DEC	18 DEC 68	
1968 111B		3603	USSR	10 DEC	17 DEC 68	
1968 112A		3604	US	12 DEC	28 DEC 68	
1968 113A	COSMOS 259	3612	USSR	14 DEC	5 MAY 69	
1968 113B		3613	USSR	14 DEC	10 MAY 69	
1968 113C		3614	USSR	14 DEC	13 MAY 69	
1968 115A	COSMOS 260	3619	USSR	16 DEC	9 JUL 73	
1968 115B		3620	USSR	16 DEC	6 FEB 69	
1968 115C		3621	USSR	16 DEC	18 JAN 69	
1968 115D		3622	USSR	16 DEC	21 SEP 73	
1968 116B		5978	US	19 DEC	26 JUN 73	
1968 117A	COSMOS 261	3624	USSR	19 DEC	12 FEB 69	
1968 117B		3625	USSR	19 DEC	7 JAN 69	AF*
1968 117C		3628	USSR	19 DEC	6 JAN 69	
1968 117D		3631	USSR	19 DEC	1 FEB 69	
1968 117E		3632	USSR	19 DEC	22 JAN 69	
1968 117F		3633	USSR	19 DEC	17 FEB 69	
1968 117G		3634	USSR	19 DEC	18 AUG 69	
1968 117H		3635	USSR	19 DEC	15 MAR 69	
1968 117J		3636	USSR	19 DEC	1 FEB 69	
1968 117K		3637	USSR	19 DEC	22 JAN 69	
1968 117L		3638	USSR	19 DEC	13 FEB 69	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CONT.)						
1968 117M		3639	USSR	19 DEC	2 MAY 69	
1968 117N		3640	USSR	19 DEC	10 FEB 69	
1968 117P		3641	USSR	19 DEC	7 MAY 69	
1968 117Q		3644	USSR	19 DEC	6 MAR 69	
1968 117R		3645	USSR	19 DEC	8 MAR 69	
1968 117S		3647	USSR	19 DEC	19 MAR 69	
1968 117T		3698	USSR	19 DEC	20 MAR 69	
1968 117U		3700	USSR	19 DEC	14 MAR 69	
1968 117V		3703	USSR	19 DEC	17 FEB 69	
1968 117W		3705	USSR	19 DEC	15 FEB 69	
1968 117X		3709	USSR	19 DEC	21 FEB 69	
1968 117Y		3710	USSR	19 DEC	4 MAR 69	
1968 117Z		3768	USSR	19 DEC	4 MAR 69	
1968 118A	APOLLO 8	3626	US	21 DEC	27 DEC 68	AG*
1968 119A	COSMOS 262	3629	USSR	26 DEC	18 JUL 69	
1968 119B		3630	USSR	26 DEC	30 APR 69	
1969 LAUNCHES						
1969 001A	VENERA 5	3642	USSR	5 JAN	16 MAY 69	N*
1969 001B		3643	USSR	5 JAN	6 JAN 69	
1969 001C		3646	USSR	5 JAN	7 JAN 69	
1969 002A	VENERA 6	3648	USSR	10 JAN	17 MAY 69	N*
1969 002B		3649	USSR	10 JAN	11 JAN 69	
1969 002C		3650	USSR	10 JAN	13 JAN 69	
1969 003A	COSMOS 263	3651	USSR	12 JAN	20 JAN 69	
1969 003B		3652	USSR	12 JAN	18 JAN 69	
1969 003C		3653	USSR	12 JAN	19 JAN 69	
1969 004A	SOYUZ 4	3654	USSR	14 JAN	17 JAN 69	E*
1969 004B		3655	USSR	14 JAN	15 JAN 69	
1969 005A	SOYUZ 5	3656	USSR	15 JAN	18 JAN 69	E*
1969 005B		3657	USSR	15 JAN	17 JAN 69	
1969 005C		3658	USSR	15 JAN	18 JAN 69	
1969 006A	OSO 5	3663	US	22 JAN	2 APR 84	
1969 006B		3664	US	22 JAN	8 DEC 79	
1969 007A		3665	US	22 JAN	3 FEB 69	
1969 007B		3666	US	22 JAN	26 JAN 69	
1969 008A	COSMOS 264	3667	USSR	23 JAN	5 FEB 69	
1969 008B		3668	USSR	23 JAN	30 JAN 69	
1969 008C		3671	USSR	23 JAN	13 FEB 69	
1969 010A		3672	US	5 FEB	24 FEB 69	
1969 012A	COSMOS 265	3675	USSR	7 FEB	1 MAY 69	
1969 012B		3676	USSR	7 FEB	17 MAR 69	
1969 015A	COSMOS 266	3761	USSR	25 FEB	5 MAR 69	
1969 015B		3762	USSR	25 FEB	4 MAR 69	
1969 015C		3763	USSR	25 FEB	26 FEB 69	
1969 017A	COSMOS 267	3765	USSR	26 FEB	6 MAR 69	
1969 017B		3766	USSR	26 FEB	5 MAR 69	
1969 018A	APOLLO 9	3769	US	3 MAR	13 MAR 69	F*
1969 018C	LM/ASCENT	3771	US	3 MAR	23 OCT 81	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 018D	LM/DESCENT	3780	US	3 MAR	22 MAR 69	
1969 019A		3772	US	4 MAR	18 MAR 69	
1969 020A	COSMOS 268	3773	USSR	5 MAR	9 MAY 70	
1969 020B		3774	USSR	5 MAR	11 FEB 70	
1969 021A	COSMOS 269	3775	USSR	5 MAR	21 OCT 78	
1969 021B		3776	USSR	5 MAR	20 JUL 78	AH*
1969 021C		3779	USSR	5 MAR	24 APR 69	
1969 021D		3781	USSR	5 MAR	7 MAY 69	
1969 021E		3782	USSR	5 MAR	2 APR 70	
1969 021F		3798	USSR	5 MAR	2 MAY 70	
1969 021G		3799	USSR	5 MAR	26 NOV 69	
1969 021H		3800	USSR	5 MAR	8 SEP 69	
1969 021J		3801	USSR	5 MAR	4 APR 70	
1969 021K		3802	USSR	5 MAR	2 MAY 70	
1969 021L		3803	USSR	5 MAR	11 JUN 69	
1969 021M		3804	USSR	5 MAR	19 MAR 69	
1969 021N		3805	USSR	5 MAR	4 SEP 69	
1969 021P		3806	USSR	5 MAR	29 JUN 69	
1969 021Q		3820	USSR	5 MAR	7 APR 69	
1969 021R		3821	USSR	5 MAR	17 MAY 69	
1969 021S		3822	USSR	5 MAR	9 APR 69	
1969 021T		3844	USSR	5 MAR	19 JUL 83	
1969 021U		3924	USSR	5 MAR	30 DEC 69	
1969 021V		3937	USSR	5 MAR	13 AUG 69	
1969 021W		3976	USSR	5 MAR	16 MAY 70	
1969 021X		3977	USSR	5 MAR	18 AUG 69	
1969 021Y		5425	USSR	5 MAR	20 DEC 72	
1969 022A	COSMOS 270	3777	USSR	6 MAR	14 MAR 69	
1969 022B		3778	USSR	6 MAR	12 MAR 69	
1969 023A	COSMOS 271	3807	USSR	15 MAR	23 MAR 69	
1969 023B		3808	USSR	15 MAR	22 MAR 69	
1969 025A	OV1-17	3823	US	18 MAR	5 MAR 70	
1969 025B	OV1-18	3824	US	18 MAR	27 AUG 72	
1969 025D	OV1-17A	3826	US	18 MAR	24 MAR 69	
1969 025F		3828	US	18 MAR	16 MAR 79	
1969 025G		4121	US	18 MAR	6 NOV 69	
1969 026A		3829	US	19 MAR	24 MAR 69	
1969 026B		3830	US	19 MAR	6 DEC 71	
1969 027A	COSMOS 273	3831	USSR	22 MAR	30 MAR 69	
1969 027B		3832	USSR	22 MAR	28 MAR 69	
1969 028A	COSMOS 274	3833	USSR	24 MAR	1 APR 69	
1969 028B		3834	USSR	24 MAR	29 MAR 69	
1969 029C		3849	USSR	26 MAR	5 NOV 80	AK*
1969 029D		3850	USSR	26 MAR	8 SEP 69	
1969 029F		3852	USSR	26 MAR	13 JUL 70	
1969 029G		3853	USSR	26 MAR	7 OCT 70	
1969 029H		3858	USSR	26 MAR	18 MAY 70	
1969 029J		3859	USSR	26 MAR	28 NOV 79	
1969 029K		3860	USSR	26 MAR	26 DEC 71	
1969 029L		3861	USSR	26 MAR	4 JUN 74	

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INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 029M		3862	USSR	26 MAR	13 DEC 70	
1969 029N		3863	USSR	26 MAR	18 JUN 72	
1969 029P		3864	USSR	26 MAR	23 FEB 70	
1969 029Q		3865	USSR	26 MAR	25 APR 73	
1969 029R		3866	USSR	26 MAR	1 JUN 69	
1969 029S		3867	USSR	26 MAR	13 FEB 71	
1969 029T		3868	USSR	26 MAR	4 FEB 70	
1969 029U		3869	USSR	26 MAR	1 JUN 71	
1969 029V		3870	USSR	26 MAR	26 AUG 70	
1969 029W		3871	USSR	26 MAR	3 JUN 82	
1969 029X		3877	USSR	26 MAR	23 NOV 79	
1969 029Y		3878	USSR	26 MAR	23 JUN 69	
1969 029AA		3880	USSR	26 MAR	21 AUG 69	
1969 029AB		3881	USSR	26 MAR	6 JAN 72	
1969 029AC		3882	USSR	26 MAR	19 NOV 77	
1969 029AD		3905	USSR	26 MAR	12 SEP 69	
1969 029AE		3913	USSR	29 MAR	7 MAR 70	
1969 029AF		3917	USSR	26 MAR	1 JUL 69	
1969 029AG		3918	USSR	26 MAR	10 MAY 69	
1969 029AH		3921	USSR	26 MAR	19 JUL 71	
1969 029AJ		3933	USSR	26 MAR	6 AUG 70	
1969 029AK		3966	USSR	26 MAR	10 SEP 69	
1969 029AL		3967	USSR	26 MAR	26 JUN 69	
1969 029AM		4289	USSR	26 MAR	26 DEC 70	
1969 029AN		9279	USSR	26 MAR	16 JUN 79	
1969 029AP		9692	USSR	26 MAR	18 JUL 78	
1969 031A	COSMOS 275	3846	USSR	28 MAR	7 FEB 70	
1969 031B		3847	USSR	28 MAR	16 SEP 69	
1969 032A	COSMOS 276	3854	USSR	4 APR	11 APR 69	
1969 032B		3856	USSR	4 APR	14 APR 69	
1969 033A	COSMOS 277	3855	USSR	4 APR	6 JUL 69	
1969 033B		3857	USSR	4 APR	18 MAY 69	
1969 034A	COSMOS 278	3883	USSR	9 APR	17 APR 69	
1969 034B		3884	USSR	9 APR	16 APR 69	
1969 035A	MOLNIYA 1-11	3885	USSR	11 APR	17 APR 74	
1969 035B		3887	USSR	11 APR	1 MAY 69	
1969 035C		3886	USSR	11 APR	1 JUL 74	
1969 035D		3888	USSR	11 APR	5 MAY 69	
1969 038A	COSMOS 279	3893	USSR	15 APR	23 APR 69	
1969 038B		3894	USSR	15 APR	18 APR 69	
1969 039A		3895	US	15 APR	30 APR 69	
1969 040A	COSMOS 280	3906	USSR	23 APR	6 MAY 69	
1969 040B		3907	USSR	23 APR	26 APR 69	
1969 040C		3919	USSR	23 APR	8 MAY 69	
1969 040D		3920	USSR	23 APR	8 MAY 69	
1969 041A		3914	US	2 MAY	23 MAY 69	
1969 041B		3915	US	2 MAY	16 FEB 70	
1969 041C		3942	US	2 MAY	19 MAY 69	
1969 042A	COSMOS 281	3939	USSR	13 MAY	21 MAY 69	
1969 042B		3940	USSR	13 MAY	17 MAY 69	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 043A	APOLLO 10	3941	US	18 MAY	26 MAY 69	AG*
1969 044A	COSMOS 282	3944	USSR	20 MAY	28 MAY 69	
1969 044B		3945	USSR	20 MAY	28 MAY 69	
1969 045B		5976	US	22 MAY	7 MAR 77	
1969 047A	COSMOS 283	3957	USSR	27 MAY	10 DEC 69	
1969 047B		3958	USSR	27 MAY	1 OCT 69	
1969 048A	COSMOS 284	3971	USSR	29 MAY	6 JUN 69	
1969 048B		3972	USSR	29 MAY	4 JUN 69	
1969 048C		3973	USSR	29 MAY	30 MAY 69	
1969 049A	COSMOS 285	3983	USSR	3 JUN	7 OCT 69	
1969 049B		3985	USSR	3 JUN	5 AUG 69	
1969 050A		3984	US	3 JUN	14 JUN 69	
1969 051A	OGO 6	3986	US	5 JUN	12 OCT 79	
1969 051B		3987	US	5 JUN	12 JUN 80	
1969 052A	COSMOS 286	3988	USSR	15 JUN	23 JUN 69	
1969 052B		3989	USSR	15 JUN	23 JUN 69	
1969 053A	EXPLORER 41	3990	US	21 JUN	23 DEC 72	
1969 054A	COSMOS 287	3991	USSR	24 JUN	2 JUL 69	
1969 054B		3992	USSR	24 JUN	27 JUN 69	
1969 055A	COSMOS 288	3994	USSR	27 JUN	5 JUL 69	
1969 055B		3995	USSR	27 JUN	2 JUL 69	
1969 056A	BIOSATELLITE 3	4000	US	29 JUN	20 JAN 70	B*
1969 056A	CAPSULE	NNA	US	29 JUN	7 JUL 69	
1969 056B		4001	US	29 JUN	1 DEC 69	
1969 056C		4022	US	29 JUN	13 JUL 69	
1969 057A	COSMOS 289	4034	USSR	10 JUL	15 JUL 69	
1969 057B		4035	USSR	10 JUL	16 JUL 69	
1969 058A	LUNA 15	4036	USSR	13 JUL	21 JUL 69	A*
1969 058B		4037	USSR	13 JUL	16 JUL 69	
1969 058C		4038	USSR	13 JUL	16 JUL 69	
1969 059A	APOLLO 11	4039	US	16 JUL	24 JUL 69	AJ*
1969 060A	COSMOS 290	4042	USSR	22 JUL	30 JUL 69	
1969 060B		4044	USSR	22 JUL	29 JUL 69	
1969 061A	MOLNIYA 1-12	4043	USSR	22 JUL	18 JUN 71	
1969 061B		4045	USSR	22 JUL	28 AUG 69	
1969 061C		4046	USSR	22 JUL	23 AUG 69	
1969 061D		4049	USSR	22 JUL	10 JUN 71	
1969 061E		5134	USSR	22 JUL	4 MAY 71	
1969 061F		5286	USSR	22 JUL	15 JUN 71	
1969 061G		5302	USSR	22 JUL	18 JUN 71	
1969 063A		4050	US	24 JUL	23 AUG 69	
1969 064B		4052	US	26 JUL	17 JUL 70	AL*
1969 064D		4055	US	26 JUL	16 FEB 70	
1969 064E		4056	US	26 JUL	4 JUL 70	
1969 064F		4057	US	26 JUL	22 OCT 69	
1969 064G		4059	US	26 JUL	30 DEC 69	
1969 064H		4060	US	26 JUL	19 DEC 69	
1969 064J		4085	US	26 JUL	18 SEP 69	
1969 064K		4086	US	26 JUL	18 FEB 70	
1969 064L		4087	US	26 JUL	9 JAN 70	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 064M		4088	US	26 JUL	21 NOV 69	
1969 064N		4089	US	26 JUL	27 NOV 69	
1969 064P		4090	US	26 JUL	9 OCT 69	
1969 064Q		4091	US	26 JUL	8 NOV 69	
1969 064R		4099	US	26 JUL	2 JAN 70	
1969 064S		4100	US	26 JUL	19 FEB 70	
1969 064T		4101	US	26 JUL	23 SEP 69	
1969 064U		4108	US	26 JUL	30 JAN 70	
1969 064V		4109	US	26 JUL	4 SEP 70	
1969 064W		4110	US	26 JUL	24 OCT 69	
1969 064X		5473	US	26 JUL	5 JAN 75	
1969 065A		4054	US	31 JUL	4 JAN 73	
1969 066A	COSMOS 291	4058	USSR	6 AUG	8 SEP 69	
1969 066B		4061	USSR	6 AUG	11 AUG 69	
1969 067A	ZOND 7	4062	USSR	7 AUG	14 AUG 69	
1969 067B		4063	USSR	7 AUG	10 AUG 69	
1969 067C		4064	USSR	7 AUG	12 AUG 69	
1969 067D		4067	USSR	7 AUG	13 AUG 69	
1969 068A	OSO 6	4065	US	9 AUG	7 MAR 81	
1969 068B	PAC 1	4066	US	9 AUG	28 APR 77	
1969 071A	COSMOS 293	4072	USSR	16 AUG	28 AUG 69	
1969 071B		4073	USSR	16 AUG	20 AUG 69	
1969 072A	COSMOS 294	4074	USSR	19 AUG	27 AUG 69	
1969 072B		4075	USSR	19 AUG	27 AUG 69	
1969 073A	COSMOS 295	4076	USSR	22 AUG	1 DEC 69	
1969 073B		4077	USSR	22 AUG	11 OCT 69	
1969 074A		4078	US	23 AUG	7 SEP 69	
1969 075A	COSMOS 296	4080	USSR	29 AUG	6 SEP 69	
1969 075B		4081	USSR	29 AUG	5 SEP 69	
1969 076A	COSMOS 297	4082	USSR	2 SEP	10 SEP 69	
1969 076B		4083	USSR	2 SEP	11 SEP 69	
1969 077A	COSMOS 298	4092	USSR	15 SEP	15 SEP 69	
1969 077B		4093	USSR	15 SEP	16 SEP 69	
1969 077C		4094	USSR	15 SEP	16 SEP 69	
1969 077D		4095	USSR	15 SEP	16 SEP 69	
1969 077E		4096	USSR	15 SEP	16 SEP 69	
1969 078A	COSMOS 299	4097	USSR	18 SEP	22 SEP 69	
1969 078B		4098	USSR	18 SEP	24 SEP 69	
1969 079A		4102	US	22 SEP	12 OCT 69	
1969 079B		4103	US	22 SEP	16 MAY 71	
1969 080A	COSMOS 300	4104	USSR	23 SEP	27 SEP 69	
1969 080B		4105	USSR	23 SEP	27 SEP 69	
1969 081A	COSMOS 301	4106	USSR	24 SEP	2 OCT 69	
1969 081B		4107	USSR	24 SEP	29 SEP 69	
1969 082A		4111	US	30 SEP	30 OCT 70	
1969 082L		4142	US	30 SEP	3 NOV 80	
1969 082R		4147	US	30 SEP	16 OCT 81	
1969 082S		4148	US	30 SEP	25 JAN 82	
1969 082V		4153	US	30 SEP	14 APR 71	
1969 082AE		4162	US	30 SEP	14 APR 79	

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INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 082AF		4163	US	30 SEP	9 JAN 81	
1969 082AU		4176	US	30 SEP	11 MAY 80	
1969 082AX		4179	US	30 SEP	13 OCT 82	
1969 082BB		4188	US	30 SEP	24 DEC 80	
1969 082BC		4189	US	30 SEP	15 DEC 80	
1969 082BF		4192	US	30 SEP	15 OCT 81	
1969 082BH		4194	US	30 SEP	12 OCT 82	
1969 082BK		4196	US	30 SEP	7 MAY 73	
1969 082BL		4197	US	30 SEP	2 APR 80	
1969 082BM		4198	US	30 SEP	8 APR 81	
1969 082BN		4199	US	30 SEP	31 AUG 81	
1969 082BR		4202	US	30 SEP	8 JUN 80	
1969 082BS		4203	US	30 SEP	8 JAN 82	
1969 082BT		4204	US	30 SEP	8 SEP 79	
1969 082CC		4213	US	30 SEP	13 APR 81	
1969 082CK		4228	US	30 SEP	25 MAR 81	
1969 082CL		4229	US	30 SEP	10 DEC 79	
1969 082CM		4230	US	30 SEP	7 OCT 81	
1969 082CQ		4238	US	30 SEP	30 DEC 78	
1969 082CR		4239	US	30 SEP	19 NOV 79	
1969 082CS		4240	US	30 SEP	24 MAY 80	
1969 082CT		4241	US	30 SEP	9 OCT 80	
1969 082CU		4244	US	30 SEP	11 JUN 79	
1969 082CX		4248	US	30 SEP	21 NOV 78	
1969 082DA		4113	US	30 SEP	21 OCT 69	
1969 082DC		4115	US	30 SEP	21 OCT 69	
1969 082DF		4269	US	30 SEP	29 MAR 79	
1969 082DG		4270	US	30 SEP	16 JUN 80	
1969 082DH		4271	US	30 SEP	23 FEB 80	
1969 082DJ		4272	US	30 SEP	9 SEP 70	
1969 082DN		4288	US	30 SEP	12 SEP 70	
1969 082DQ		4310	US	30 SEP	7 APR 82	
1969 082DT		4317	US	30 SEP	12 NOV 82	
1969 082DV		4319	US	30 SEP	6 NOV 81	
1969 082DW		4323	US	30 SEP	3 FEB 71	
1969 082DX		4324	US	30 SEP	10 MAY 70	
1969 082EA		4335	US	30 SEP	7 MAY 73	
1969 082EC		4359	US	30 SEP	1 OCT 80	
1969 082EE		4433	US	30 SEP	19 APR 79	
1969 082EF		4434	US	30 SEP	5 JAN 80	
1969 082EJ		4437	US	30 SEP	22 JUN 81	
1969 082EL		4439	US	30 SEP	9 MAY 72	
1969 082EQ		4443	US	30 SEP	28 JUL 70	
1969 082ET		4448	US	30 SEP	16 SEP 80	
1969 082EV		4450	US	30 SEP	18 DEC 81	
1969 082EZ		4454	US	30 SEP	25 OCT 81	
1969 082FA		4457	US	30 SEP	19 OCT 70	
1969 082FC		4459	US	30 SEP	19 FEB 80	
1969 082FE		4461	US	30 SEP	13 JUN 74	
1969 082FF		4462	US	30 SEP	25 MAR 82	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 082FG		4463	US	30 SEP	8 JUL 78	
1969 082FH		4464	US	30 SEP	2 APR 81	
1969 082FN		4469	US	30 SEP	30 NOV 80	
1969 082FP		4470	US	30 SEP	15 SEP 81	
1969 082FR		4472	US	30 SEP	21 JUL 80	
1969 082FS		4473	US	30 SEP	18 FEB 81	
1969 082FT		4474	US	30 SEP	14 NOV 79	
1969 082FX		4520	US	30 SEP	20 DEC 77	
1969 082FY		4521	US	30 SEP	18 OCT 80	
1969 082FZ		4522	US	30 SEP	8 MAY 78	
1969 082GD		4532	US	30 SEP	4 MAR 79	
1969 082GE		4533	US	30 SEP	1 MAY 81	
1969 082GG		4535	US	30 SEP	13 JUN 78	
1969 082GH		4540	US	30 SEP	3 FEB 72	
1969 082GJ		4541	US	30 SEP	20 DEC 79	
1969 082GK		4542	US	30 SEP	28 DEC 70	
1969 082GM		4544	US	30 SEP	22 JUL 80	
1969 082GP		4548	US	30 SEP	14 FEB 82	
1969 082GQ		4549	US	30 SEP	12 DEC 79	
1969 082GR		4550	US	30 SEP	5 JAN 78	
1969 082GS		4551	US	30 SEP	26 OCT 81	
1969 082GU		4876	US	30 SEP	13 APR 81	
1969 082GW		4887	US	30 SEP	16 JUL 78	
1969 082GY		4889	US	30 SEP	1 AUG 78	
1969 082HA		4891	US	30 SEP	1 JAN 72	
1969 082HB		4892	US	30 SEP	24 AUG 72	
1969 082HC		4893	US	30 SEP	7 MAY 73	
1969 082HF		4897	US	30 SEP	11 MAR 81	
1969 082HG		4906	US	30 SEP	17 SEP 81	
1969 082HK		4939	US	30 SEP	27 OCT 80	
1969 082HM		5158	US	30 SEP	7 AUG 79	
1969 082HN		5159	US	30 SEP	30 DEC 72	
1969 082HP		5195	US	30 SEP	15 JUN 81	
1969 082HQ		5270	US	30 SEP	20 JAN 74	
1969 082HR		5271	US	30 SEP	7 APR 73	
1969 082HT		5339	US	30 SEP	10 JUN 82	
1969 082HU		5362	US	30 SEP	30 SEP 80	
1969 082HV		5429	US	30 SEP	16 JUN 79	
1969 082HX		5459	US	30 SEP	24 SEP 80	
1969 082JA		5521	US	30 SEP	27 JUL 79	
1969 082JB		5522	US	30 SEP	6 DEC 71	
1969 082JC		5593	US	30 SEP	2 MAY 73	
1969 082JE		5634	US	30 SEP	13 APR 81	
1969 082JG		5636	US	30 SEP	13 MAY 78	
1969 082JJ		5750	US	30 SEP	23 JAN 77	
1969 082JK		5751	US	30 SEP	2 JAN 80	
1969 082JL		5752	US	30 SEP	12 OCT 76	
1969 082JM		5753	US	30 SEP	6 OCT 79	
1969 082JQ		5756	US	30 SEP	26 OCT 74	
1969 082JT		5791	US	30 SEP	3 JAN 77	

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INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 082JU		5792	US	30 SEP	5 APR 72	
1969 082JV		5793	US	30 SEP	8 APR 72	
1969 082JX		5823	US	30 SEP	9 APR 72	
1969 082JY		5859	US	30 SEP	10 MAY 82	
1969 082JZ		5868	US	30 SEP	23 OCT 79	
1969 082KA		5869	US	30 SEP	22 FEB 82	
1969 082KC		5900	US	30 SEP	19 MAR 73	
1969 082KD		5964	US	30 SEP	13 AUG 81	
1969 082KF		6044	US	30 SEP	3 DEC 81	
1969 082KG		6178	US	30 SEP	16 DEC 79	
1969 082KJ		7285	US	30 SEP	19 JUL 74	
1969 082KK		8608	US	30 SEP	28 JUN 78	
1969 082KL		9980	US	30 SEP	13 APR 81	
1969 083A	ESRO-1B	4114	ESRO	1 OCT	23 NOV 69	
1969 083B		4117	US	1 OCT	3 NOV 69	
1969 083C		4116	US	1 OCT	21 OCT 69	
1969 083D		4118	US	1 OCT	25 OCT 69	
1969 085A	SOYUZ 6	4122	USSR	11 OCT	16 OCT 69	
1969 085B		4123	USSR	11 OCT	12 OCT 69	
1969 086A	SOYUZ 7	4124	USSR	12 OCT	17 OCT 69	
1969 086B		4125	USSR	12 OCT	14 OCT 69	
1969 087A	SOYUZ 8	4126	USSR	13 OCT	18 OCT 69	
1969 087B		4127	USSR	13 OCT	15 OCT 69	
1969 088A	INTERCOSMOS 1	4128	USSR	14 OCT	2 JAN 70	
1969 088B		4129	USSR	14 OCT	16 DEC 69	
1969 089A	COSMOS 302	4130	USSR	17 OCT	25 OCT 69	
1969 089B		4131	USSR	17 OCT	24 OCT 69	
1969 090A	COSMOS 303	4136	USSR	18 OCT	23 JAN 70	
1969 090B		4137	USSR	18 OCT	7 DEC 69	
1969 092A	COSMOS 305	4150	USSR	22 OCT	24 OCT 69	
1969 092B		4151	USSR	22 OCT	24 OCT 69	
1969 093A	COSMOS 306	4182	USSR	24 OCT	5 NOV 69	
1969 093B		4183	USSR	24 OCT	29 OCT 69	
1969 094A	COSMOS 307	4184	USSR	24 OCT	30 DEC 70	
1969 094B		4185	USSR	24 OCT	20 JUL 70	
1969 095A		4186	US	24 OCT	8 NOV 69	
1969 096A	COSMOS 308	4219	USSR	4 NOV	5 JAN 70	
1969 096B		4220	USSR	4 NOV	6 DEC 69	
1969 097C		4242	FRG	8 NOV	7 OCT 81	
1969 097D		4243	FRG	8 NOV	24 AUG 81	
1969 097E		4261	FRG	8 NOV	11 JUL 80	
1969 097F		4265	FRG	8 NOV	13 APR 81	
1969 098A	COSMOS 309	4223	USSR	12 NOV	20 NOV 69	
1969 098B		4224	USSR	12 NOV	22 NOV 69	
1969 098C		4234	USSR	12 NOV	26 NOV 69	
1969 098D		4235	USSR	12 NOV	25 NOV 69	
1969 098E		4236	USSR	12 NOV	30 NOV 69	
1969 099A	APOLLO 12	4225	US	14 NOV	24 NOV 69	AJ*
1969 099C	LUNAR MODULE	4246	US	14 NOV	20 NOV 69	AM*
1969 100A	COSMOS 310	4232	USSR	15 NOV	23 NOV 69	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 100B		4233	USSR	15 NOV	23 NOV 69	
1969 102A	COSMOS 311	4252	USSR	24 NOV	10 MAR 70	
1969 102B		4253	USSR	24 NOV	19 JAN 70	
1969 104A	COSMOS 313	4262	USSR	3 DEC	15 DEC 69	
1969 104B		4263	USSR	3 DEC	6 DEC 69	
1969 105A		4264	US	4 DEC	10 JAN 70	
1969 106A	COSMOS 314	4266	USSR	11 DEC	22 MAR 70	
1969 106B		4267	USSR	11 DEC	27 JAN 70	
1969 107A	COSMOS 315	4273	USSR	20 DEC	25 MAR 79	
1969 107B		4274	USSR	20 DEC	2 APR 79	
1969 107C		4275	USSR	20 DEC	29 APR 70	
1969 107D		4279	USSR	20 DEC	10 OCT 71	
1969 107E		4287	USSR	20 DEC	13 JUN 70	
1969 107F		4294	USSR	20 DEC	14 MAY 70	
1969 108A	COSMOS 316	4282	USSR	23 DEC	28 AUG 70	
1969 108B		4283	USSR	23 DEC	1 JAN 70	
1969 108C		4284	USSR	23 DEC	28 JAN 70	
1969 109A	COSMOS 317	4280	USSR	23 DEC	5 JAN 70	
1969 109B		4281	USSR	23 DEC	28 DEC 69	
1969 109C		4290	USSR	23 DEC	8 JAN 70	
1969 109D		4291	USSR	23 DEC	9 JAN 70	
1969 110A	INTERCOSMOS 2	4285	USSR	25 DEC	7 JUN 70	
1969 110B		4286	USSR	25 DEC	21 MAR 70	
1970 LAUNCHES						
1970 001A	COSMOS 318	4292	USSR	9 JAN	21 JAN 70	
1970 001B		4293	USSR	9 JAN	15 JAN 70	
1970 002A		4296	US	14 JAN	1 FEB 70	
1970 004A	COSMOS 319	4299	USSR	15 JAN	1 JUL 70	
1970 004B		4300	USSR	15 JAN	1 MAY 70	
1970 005A	COSMOS 320	4301	USSR	16 JAN	10 FEB 70	
1970 005B		4302	USSR	16 JAN	28 JAN 70	
1970 005C		4303	USSR	16 JAN	24 JAN 70	
1970 005D		4304	USSR	16 JAN	11 FEB 70	
1970 005E		4305	USSR	16 JAN	3 MAR 70	
1970 005F		4306	USSR	16 JAN	24 JAN 70	
1970 005G		4307	USSR	16 JAN	29 JAN 70	
1970 006A	COSMOS 321	4308	USSR	20 JAN	23 MAR 70	
1970 006B		4309	USSR	20 JAN	7 MAR 70	
1970 006C		4313	USSR	20 JAN	25 JAN 70	
1970 006D		4314	USSR	20 JAN	29 JAN 70	
1970 007A	COSMOS 322	4315	USSR	21 JAN	29 JAN 70	
1970 007B		4316	USSR	21 JAN	25 JAN 70	
1970 010A	COSMOS 323	4328	USSR	10 FEB	18 FEB 70	
1970 010B		4329	USSR	10 FEB	15 FEB 70	
1970 013A	MOLNIYA 1-13	4336	USSR	19 FEB	29 SEP 75	
1970 013B		4333	USSR	19 FEB	9 MAR 70	
1970 013C		4334	USSR	19 FEB	11 MAR 70	
1970 013D		4337	USSR	19 FEB	9 JAN 76	

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INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)						
1970 014A	COSMOS 324	4338	USSR	27 FEB	23 MAY 70	
1970 014B		4339	USSR	27 FEB	11 APR 70	
1970 015A	COSMOS 325	4340	USSR	4 MAR	12 MAR 70	
1970 015B		4341	USSR	4 MAR	10 MAR 70	
1970 016A		4342	US	4 MAR	26 MAR 70	
1970 016B		4343	US	4 MAR	10 NOV 71	
1970 017A	DIAL-WIKA	4344	FRG	10 MAR	5 OCT 78	
1970 017B		4345	FRANCE	10 MAR	9 SEP 74	
1970 018A	COSMOS 326	4346	USSR	13 MAR	21 MAR 70	
1970 018B		4347	USSR	13 MAR	23 MAR 70	
1970 019A	METEOR	4349	USSR	17 MAR	18 NOV 83	
1970 019B		4350	USSR	17 MAR	26 NOV 82	
1970 019C		5573	USSR	17 MAR	3 NOV 74	
1970 020A	COSMOS 327	4351	USSR	18 MAR	19 JAN 71	
1970 020B		4352	USSR	18 MAR	27 SEP 70	
1970 022A	COSMOS 328	4355	USSR	27 MAR	9 APR 70	
1970 022B		4356	USSR	27 MAR	1 APR 70	
1970 023A	COSMOS 329	4357	USSR	3 APR	15 APR 70	
1970 023B		4358	USSR	3 APR	5 APR 70	
1970 024A	COSMOS 330	4360	USSR	7 APR	12 JUN 79	
1970 024B		4361	USSR	7 APR	10 NOV 79	
1970 025E		4602	US	8 APR	14 OCT 82	
1970 025J		4606	US	8 APR	14 AUG 79	
1970 025AX		4674	US	8 APR	13 AUG 82	
1970 025BB		4678	US	8 APR	20 FEB 80	
1970 025BP		4701	US	8 APR	22 JUL 72	
1970 025BQ		4702	US	8 APR	7 JUL 72	
1970 025BR		4703	US	8 APR	1 DEC 78	
1970 025CF		4732	US	8 APR	6 FEB 72	
1970 025CP		4740	US	8 APR	10 AUG 72	
1970 025DG		4758	US	8 APR	18 MAR 82	
1970 025DV		4775	US	8 APR	31 JUL 81	
1970 025EN		4858	US	8 APR	23 MAY 79	
1970 025EV		4865	US	8 APR	26 OCT 81	
1970 025FA		4870	US	8 APR	9 NOV 79	
1970 025FD		4898	US	8 APR	10 JUN 82	
1970 025FM		4915	US	8 APR	8 AUG 71	
1970 025FX		4931	US	8 APR	4 AUG 78	
1970 025FZ		4933	US	8 APR	8 JUN 79	
1970 025GC		4936	US	8 APR	22 JUL 80	
1970 025GH		4947	US	8 APR	18 JUL 81	
1970 025GK		4949	US	8 APR	5 MAR 72	
1970 025GS		4972	US	8 APR	29 MAY 71	
1970 025GU		4974	US	8 APR	2 JUL 71	
1970 025GV		4975	US	8 APR	2 JUN 78	
1970 025GY		4978	US	8 APR	13 APR 81	
1970 025HE		4984	US	8 APR	11 APR 72	
1970 025HV		4999	US	8 APR	28 OCT 79	
1970 025HX		5023	US	8 APR	29 SEP 79	
1970 025JC		5037	US	8 APR	18 JUL 80	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)						
1970 025JD		5038	US	8 APR	18 JUL 71	
1970 025KD		5190	US	8 APR	10 NOV 79	
1970 025KK		5346	US	8 APR	14 OCT 71	
1970 025KW		5391	US	8 APR	16 FEB 82	
1970 025KZ		5421	US	8 APR	29 AUG 79	
1970 025LB		5423	US	8 APR	5 DEC 71	
1970 025LC		5424	US	8 APR	19 MAR 82	
1970 025LF		5501	US	8 APR	26 DEC 78	
1970 025LN		5509	US	8 APR	11 APR 72	
1970 025LQ		5535	US	8 APR	24 MAR 72	
1970 025LT		5621	US	8 APR	21 MAR 72	
1970 025MF		5700	US	8 APR	16 JUN 79	
1970 025MK		5825	US	8 APR	3 DEC 72	
1970 025MS		6015	US	8 APR	19 FEB 73	
1970 025MT		6051	US	8 APR	17 MAR 76	
1970 025MU		6084	US	8 APR	12 MAY 74	
1970 025MW		6140	US	8 APR	20 MAR 79	
1970 025ND		6185	US	8 APR	8 JUN 81	
1970 025NP		9997	US	8 APR	4 JAN 78	
1970 026A	COSMOS 331	4364	USSR	8 APR	16 APR 70	
1970 026B		4365	USSR	8 APR	16 APR 70	
1970 029A	APOLLO 13	4371	US	11 APR	17 APR 70	AN*
1970 029B		4372	US	11 APR	15 APR 70	G*
1970 030A	COSMOS 333	4373	USSR	15 APR	28 APR 70	
1970 030B		4374	USSR	15 APR	18 APR 70	
1970 030C		4395	USSR	15 APR	2 MAY 70	
1970 030D		4396	USSR	15 APR	9 MAY 70	
1970 031A		4375	US	15 APR	6 MAY 70	
1970 033A	COSMOS 334	4378	USSR	23 APR	9 AUG 70	
1970 033B		4379	USSR	23 APR	16 MAY 70	
1970 033C		4397	USSR	23 APR	8 JUL 70	
1970 033D		4398	USSR	23 APR	25 MAY 70	
1970 033E		4399	USSR	23 APR	16 MAY 70	
1970 034C		4400	PRC	24 APR	23 MAR 83	
1970 035A	COSMOS 335	4380	USSR	24 APR	22 JUN 70	
1970 035B		4381	USSR	24 APR	17 MAY 70	
1970 037C		5055	USSR	28 APR	26 FEB 79	
1970 038A	COSMOS 344	4401	USSR	12 MAY	20 MAY 70	
1970 038B		4402	USSR	12 MAY	20 MAY 70	
1970 039A	COSMOS 345	4403	USSR	20 MAY	28 MAY 70	
1970 039B		4404	USSR	20 MAY	23 MAY 70	
1970 040A		4405	US	20 MAY	17 JUN 70	
1970 040B		4406	US	20 MAY	8 MAR 74	
1970 041A	SOYUZ 9	4407	USSR	1 JUN	19 JUN 70	
1970 041B		4408	USSR	1 JUN	3 JUN 70	
1970 042A	COSMOS 346	4409	USSR	10 JUN	17 JUN 70	
1970 042B		4410	USSR	10 JUN	13 JUN 70	
1970 043A	COSMOS 347	4411	USSR	12 JUN	7 NOV 71	
1970 043B		4412	USSR	12 JUN	14 FEB 71	
1970 044A	COSMOS 348	4413	USSR	13 JUN	25 JUL 70	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)						
1970 044B		4414	USSR	13 JUN	9 JUL 70	
1970 044C		4415	USSR	13 JUN	17 JUN 70	
1970 045A	COSMOS 349	4416	USSR	17 JUN	25 JUN 70	
1970 045B		4417	USSR	17 JUN	22 JUN 70	
1970 048A		4422	US	25 JUN	6 JUL 70	
1970 049A	MOLNIYA 1-14	4430	USSR	26 JUN	16 FEB 76	
1970 049B		4424	USSR	26 JUN	25 JUL 70	
1970 049C		4423	USSR	26 JUN	17 JUL 70	
1970 049D		4431	USSR	26 JUN	2 MAR 76	
1970 050A	COSMOS 350	4425	USSR	26 JUN	8 JUL 70	
1970 050B		4426	USSR	26 JUN	29 JUN 70	
1970 051A	COSMOS 351	4427	USSR	27 JUN	13 OCT 70	
1970 051B		4428	USSR	27 JUN	18 AUG 70	
1970 052A	COSMOS 352	4446	USSR	7 JUL	15 JUL 70	
1970 052B		4447	USSR	7 JUL	12 JUL 70	
1970 053A	COSMOS 353	4455	USSR	9 JUL	21 JUL 70	
1970 053B		4456	USSR	9 JUL	16 JUL 70	
1970 054A		4477	US	23 JUL	19 AUG 70	
1970 056A	COSMOS 354	4481	USSR	28 JUL	28 JUL 70	
1970 056B		4480	USSR	28 JUL	29 JUL 70	
1970 056C		4479	USSR	28 JUL	29 JUL 70	
1970 057A	INTERCOSMOS 3	4482	USSR	7 AUG	6 DEC 70	
1970 057B		4483	USSR	7 AUG	17 NOV 70	
1970 058A	COSMOS 355	4484	USSR	7 AUG	15 AUG 70	
1970 058B		4485	USSR	7 AUG	14 AUG 70	
1970 059A	COSMOS 356	4487	USSR	10 AUG	2 OCT 70	
1970 059B		4488	USSR	10 AUG	1 OCT 70	
1970 060A	VENERA 7	4489	USSR	17 AUG	15 DEC 70	N*
1970 060B		4490	USSR	17 AUG	18 AUG 70	
1970 060C		4491	USSR	17 AUG	18 AUG 70	
1970 061A		4492	US	18 AUG	3 SEP 70	
1970 063A	COSMOS 357	4495	USSR	19 AUG	24 NOV 70	
1970 063B		4496	USSR	19 AUG	15 OCT 70	
1970 064B		4498	USSR	20 AUG	7 JUL 79	
1970 064C		4514	USSR	20 AUG	29 OCT 70	
1970 065A	COSMOS 359	4501	USSR	22 AUG	6 NOV 70	
1970 065B		4502	USSR	22 AUG	29 AUG 70	
1970 065C		4504	USSR	22 AUG	11 SEP 70	
1970 065D		4505	USSR	22 AUG	6 OCT 71	
1970 065E		4506	USSR	22 AUG	9 SEP 70	
1970 066A	NNSS 30190	4503	US	26 AUG	26 MAR 75	
1970 067E		6372	US	27 AUG	13 APR 81	
1970 068A	COSMOS 360	4508	USSR	29 AUG	8 SEP 70	
1970 068B		4509	USSR	29 AUG	2 SEP 70	
1970 068C		4516	USSR	29 AUG	9 SEP 70	
1970 068D		4517	USSR	29 AUG	11 SEP 70	
1970 068E		4526	USSR	29 AUG	11 SEP 70	
1970 071A	COSMOS 361	4524	USSR	8 SEP	21 SEP 70	
1970 071B		4525	USSR	8 SEP	14 SEP 70	
1970 071C		4545	USSR	8 SEP	5 OCT 70	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)						
1970 071D		4546	USSR	8 SEP	26 SEP 70	
1970 072A	LUNA 16	4527	USSR	12 SEP	24 SEP 70	AP*
1970 072B		4528	USSR	12 SEP	15 SEP 70	
1970 072C		4529	USSR	12 SEP	15 SEP 70	
1970 073A	COSMOS 362	4536	USSR	16 SEP	13 OCT 71	
1970 073B		4537	USSR	16 SEP	28 MAR 71	
1970 074A	COSMOS 363	4538	USSR	17 SEP	29 SEP 70	
1970 074B		4539	USSR	17 SEP	22 SEP 70	
1970 075A	COSMOS 364	4553	USSR	22 SEP	2 OCT 70	
1970 075B		4554	USSR	22 SEP	28 SEP 70	
1970 075C		4563	USSR	22 SEP	9 OCT 70	
1970 076A	COSMOS 365	4556	USSR	25 SEP	25 SEP 70	
1970 076B		4557	USSR	25 SEP	26 SEP 70	
1970 076C		4558	USSR	25 SEP	25 SEP 70	
1970 077A	MOLNIYA 1-15	4569	USSR	29 SEP	20 MAR 76	
1970 077B		4559	USSR	29 SEP	23 OCT 70	
1970 077C		4560	USSR	29 SEP	16 OCT 70	
1970 077D		4570	USSR	29 SEP	31 MAY 72	
1970 077E		5950	USSR	29 SEP	30 APR 72	
1970 078A	COSMOS 366	4561	USSR	1 OCT	13 OCT 70	
1970 078B		4562	USSR	1 OCT	6 OCT 70	
1970 079B		4565	USSR	3 OCT	6 OCT 70	
1970 079C		4566	USSR	3 OCT	31 OCT 70	
1970 079D		4567	USSR	3 OCT	8 OCT 70	
1970 079E		4568	USSR	3 OCT	12 OCT 70	
1970 080A	COSMOS 368	4571	USSR	8 OCT	14 OCT 70	
1970 080B		4572	USSR	8 OCT	20 OCT 70	
1970 080C		4575	USSR	8 OCT	7 JAN 71	
1970 080D		4582	USSR	8 OCT	19 OCT 70	
1970 080E		4585	USSR	8 OCT	4 NOV 70	
1970 081A	COSMOS 369	4573	USSR	8 OCT	22 JAN 71	
1970 081B		4574	USSR	8 OCT	30 NOV 70	
1970 082A	COSMOS 370	4576	USSR	9 OCT	22 OCT 70	
1970 082B		4577	USSR	9 OCT	13 OCT 70	
1970 082C		4593	USSR	9 OCT	27 OCT 70	
1970 084A	INTERCOSMOS 4	4580	USSR	14 OCT	17 JAN 71	
1970 084B		4581	USSR	14 OCT	17 DEC 70	
1970 087A	COSMOS 373	4590	USSR	20 OCT	8 MAR 80	
1970 087B		4595	USSR	20 OCT	18 JAN 71	
1970 088A	ZOND 8	4591	USSR	20 OCT	27 OCT 70	
1970 088B		4592	USSR	20 OCT	26 OCT 70	
1970 089M		4669	USSR	23 OCT	8 AUG 80	
1970 089N		4670	USSR	23 OCT	3 APR 78	
1970 089P		4671	USSR	23 OCT	27 JAN 79	
1970 089U		4824	USSR	23 OCT	21 OCT 79	
1970 089Y		5022	USSR	23 OCT	24 JUN 72	
1970 089AA		5029	USSR	23 OCT	3 JUN 81	
1970 089AF		5068	USSR	23 OCT	5 DEC 76	
1970 089AG		5069	USSR	23 OCT	22 FEB 72	
1970 089AJ		5071	USSR	23 OCT	2 OCT 78	

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INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)						
1970 089AK		5072	USSR	23 OCT	13 APR 81	
1970 089AL		5073	USSR	23 OCT	26 JUL 71	
1970 089AM		5074	USSR	23 OCT	13 APR 81	
1970 089AR		5078	USSR	23 OCT	22 APR 72	
1970 089AS		5079	USSR	23 OCT	26 MAR 79	
1970 089AT		5080	USSR	23 OCT	29 JUN 81	
1970 089AU		5081	USSR	23 OCT	29 OCT 81	
1970 089AV		5096	USSR	23 OCT	1 MAY 79	
1970 089AW		5132	USSR	23 OCT	10 NOV 82	
1970 089AX		5136	USSR	23 OCT	9 NOV 81	
1970 089AY		5138	USSR	23 OCT	24 MAR 72	
1970 089BA		5189	USSR	23 OCT	10 NOV 82	
1970 089BC		5199	USSR	23 OCT	5 DEC 76	
1970 089BD		5202	USSR	23 OCT	23 AUG 77	
1970 089BE		5224	USSR	23 OCT	22 DEC 78	
1970 089BH		5276	USSR	23 OCT	16 JUN 79	
1970 089BK		5279	USSR	23 OCT	22 NOV 82	
1970 089BL		5293	USSR	23 OCT	5 DEC 76	
1970 089BM		5294	USSR	23 OCT	16 FEB 72	
1970 089BQ		5321	USSR	23 OCT	5 DEC 76	
1970 089BR		5335	USSR	23 OCT	20 NOV 76	
1970 089BU		5411	USSR	23 OCT	2 JUN 82	
1970 089BV		5412	USSR	23 OCT	30 APR 80	
1970 089BW		5413	USSR	23 OCT	24 JUL 80	
1970 089BX		5431	USSR	23 OCT	26 JAN 72	
1970 089BZ		5433	USSR	23 OCT	1 JAN 82	
1970 089CA		5454	USSR	23 OCT	21 APR 80	
1970 089CB		5455	USSR	23 OCT	3 SEP 75	
1970 089CC		5456	USSR	23 OCT	3 SEP 77	
1970 089CE		5458	USSR	23 OCT	12 APR 76	
1970 089CF		5523	USSR	23 OCT	24 FEB 81	
1970 089CG		5524	USSR	23 OCT	7 APR 79	
1970 089CM		5796	USSR	23 OCT	6 AUG 72	
1970 089CN		5797	USSR	23 OCT	5 MAY 74	
1970 089CP		5896	USSR	23 OCT	2 APR 73	
1970 089CQ		5897	USSR	23 OCT	22 JUL 81	
1970 089CR		5898	USSR	23 OCT	5 NOV 81	
1970 089CS		5963	USSR	23 OCT	23 JUL 79	
1970 089CU		6177	USSR	23 OCT	4 JAN 82	
1970 090A		4596	US	23 OCT	11 NOV 70	
1970 091F		4626	USSR	30 OCT	20 FEB 80	
1970 091P		4662	USSR	30 OCT	7 APR 82	
1970 091AA		4729	USSR	30 OCT	22 OCT 80	
1970 091AB		4730	USSR	30 OCT	26 NOV 78	
1970 091AC		4731	USSR	30 OCT	24 FEB 81	
1970 091AD		4826	USSR	30 OCT	5 AUG 81	
1970 091AF		4828	USSR	30 OCT	9 NOV 80	
1970 091AG		4896	USSR	30 OCT	16 SEP 77	
1970 091AN		5084	USSR	30 OCT	22 NOV 82	
1970 091AP		5089	USSR	30 OCT	5 DEC 76	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)						
1970 092A	COSMOS 376	4599	USSR	30 OCT	12 NOV 70	
1970 092B		4600	USSR	30 OCT	5 NOV 70	
1970 092C		4700	USSR	30 OCT	20 NOV 70	
1970 093C		4631	US	6 NOV	7 NOV 70	
1970 094A	OFO 1	4690	US	9 NOV	9 MAY 71	
1970 094B	RMS	4692	US	9 NOV	7 FEB 71	
1970 094C		4693	US	9 NOV	18 DEC 70	
1970 094D		4747	US	9 NOV	25 JAN 71	
1970 094E		4844	US	9 NOV	21 JAN 71	
1970 095A	LUNA 17	4691	USSR	10 NOV	17 NOV 70	R*
1970 095B		4694	USSR	10 NOV	13 NOV 70	
1970 095C		4697	USSR	10 NOV	13 NOV 70	
1970 096A	COSMOS 377	4695	USSR	11 NOV	23 NOV 70	
1970 096B		4696	USSR	11 NOV	16 NOV 70	
1970 097A	COSMOS 378	4713	USSR	17 NOV	17 AUG 72	
1970 097B		4714	USSR	17 NOV	30 SEP 72	
1970 098A		4721	US	18 NOV	11 DEC 70	
1970 098B		4722	US	18 NOV	14 SEP 77	
1970 099A	COSMOS 379	4760	USSR	24 NOV	21 SEP 83	
1970 099B		4761	USSR	24 NOV	26 NOV 70	
1970 099C		4780	USSR	24 NOV	13 FEB 71	
1970 099D		4817	USSR	24 NOV	2 JAN 71	
1970 100A	COSMOS 380	4762	USSR	24 NOV	17 JUN 71	
1970 100B		4763	USSR	24 NOV	9 APR 71	
1970 101A	MOLNIYA 1-15	4779	USSR	27 NOV	25 NOV 75	
1970 101B		4781	USSR	27 NOV	11 DEC 70	
1970 101C		4782	USSR	27 NOV	17 DEC 70	
1970 101D		4785	USSR	27 NOV	2 JAN 76	
1970 103E		5326	USSR	2 DEC	3 JAN 77	
1970 103F		6072	USSR	2 DEC	3 JAN 77	
1970 104A	COSMOS 383	4787	USSR	3 DEC	16 DEC 70	
1970 104B		4788	USSR	3 DEC	9 DEC 70	
1970 105A	COSMOS 384	4791	USSR	10 DEC	22 DEC 70	
1970 105B		4792	USSR	10 DEC	15 DEC 70	
1970 105C		4795	USSR	10 DEC	18 DEC 70	
1970 105D		4796	USSR	10 DEC	18 DEC 70	
1970 105E		4810	USSR	10 DEC	27 DEC 70	
1970 107A	EXPLORER 42	4797	US	12 DEC	5 APR 79	
1970 107B		4798	US	12 DEC	15 DEC 78	
1970 109A	PEOLE	4801	FRANCE	12 DEC	16 JUN 80	
1970 109C		4803	FRANCE	12 DEC	14 MAY 80	
1970 109D		4839	FRANCE	12 DEC	20 APR 79	
1970 109E		5264	FRANCE	12 DEC	6 JAN 80	
1970 109F		5952	FRANCE	12 DEC	30 OCT 76	
1970 110A	COSMOS 386	4804	USSR	15 DEC	28 DEC 70	
1970 110B		4805	USSR	15 DEC	19 DEC 70	
1970 110C		4808	USSR	15 DEC	17 DEC 70	
1970 110D		4835	USSR	15 DEC	12 JAN 71	
1970 110E		4836	USSR	15 DEC	3 JAN 71	
1970 110F		4838	USSR	15 DEC	2 JAN 71	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)						
1970 111A	COSMOS 387	4806	USSR	16 DEC	19 JAN 80	
1970 111B		4807	USSR	16 DEC	25 MAR 80	
1970 111C		4809	USSR	16 DEC	12 DEC 71	
1970 111D		4815	USSR	16 DEC	3 SEP 71	
1970 111E		4816	USSR	16 DEC	24 AUG 71	
1970 112A	COSMOS 388	4811	USSR	18 DEC	10 MAY 71	
1970 112B		4812	USSR	18 DEC	17 FEB 71	
1970 113C		4834	USSR	18 DEC	19 SEP 72	
1970 114A	MOLNIYA 1-17	4829	USSR	25 DEC	22 DEC 75	
1970 114B		4830	USSR	25 DEC	23 JAN 71	
1970 114C		4831	USSR	25 DEC	10 FEB 71	
1970 114D		4832	USSR	25 DEC	2 JAN 71	
1970 114E		4833	USSR	25 DEC	2 JAN 71	
1970 114F		4837	USSR	25 DEC	3 MAR 73	
1970 114G		6313	USSR	25 DEC	7 FEB 73	
1971 LAUNCHES						
1971 000D		5309	US	UNKN	26 JUN 73	AQ*
1971 001A	COSMOS 390	4845	USSR	12 JAN	25 JAN 71	
1971 001B		4846	USSR	12 JAN	17 JAN 71	
1971 001C		4878	USSR	12 JAN	1 FEB 71	
1971 001D		4879	USSR	12 JAN	27 JAN 71	
1971 001E		4883	USSR	12 JAN	27 JAN 71	
1971 001F		4886	USSR	12 JAN	27 JAN 71	
1971 002A	COSMOS 391	4847	USSR	14 JAN	21 FEB 72	
1971 002B		4848	USSR	14 JAN	21 AUG 71	
1971 004A	COSMOS 392	4872	USSR	21 JAN	2 FEB 71	
1971 004B		4873	USSR	21 JAN	26 JAN 71	
1971 005A		4874	US	21 JAN	9 FEB 71	
1971 005B		4875	US	21 JAN	22 JAN 71	
1971 005C		4909	US	21 JAN	9 FEB 71	
1971 007A	COSMOS 393	4884	USSR	26 JAN	16 JUN 71	
1971 007B		4885	USSR	26 JAN	31 MAR 71	
1971 008A	APOLLO 14	4900	US	31 JAN	9 FEB 71	AJ*
1971 008B		4904	US	31 JAN	4 FEB 71	G*
1971 008C	LUNAR MODULE	4905	US	31 JAN	7 FEB 71	AM*
1971 009C		5974	US	3 FEB	10 AUG 75	
1971 010B		4923	USSR	9 FEB	21 MAR 84	
1971 010C		4927	USSR	9 FEB	18 APR 81	
1971 011C		5419	JAPAN	16 FEB	26 JUL 80	
1971 013A	COSMOS 395	4955	USSR	17 FEB	6 APR 80	
1971 013B		4956	USSR	17 FEB	19 JUL 80	
1971 013C		5001	USSR	17 FEB	15 FEB 72	
1971 013D		5002	USSR	17 FEB	17 JAN 72	
1971 013E		5227	USSR	17 FEB	6 SEP 71	
1971 014A	COSMOS 396	4959	USSR	18 FEB	3 MAR 71	
1971 014B		4960	USSR	18 FEB	25 FEB 71	
1971 014C		4961	USSR	18 FEB	20 FEB 71	
1971 014D		4962	USSR	18 FEB	21 FEB 71	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)						
1971 014E		5005	USSR	18 FEB	8 MAR 71	
1971 014F		5006	USSR	18 FEB	4 MAR 71	
1971 015B		4965	USSR	25 FEB	4 MAR 71	
1971 015Z		5100	USSR	25 FEB	10 FEB 82	
1971 015AD		5130	USSR	25 FEB	29 OCT 80	
1971 015AQ		5193	USSR	25 FEB	8 MAR 80	
1971 015AR		5194	USSR	25 FEB	25 MAY 80	
1971 015AV		5201	USSR	25 FEB	9 AUG 77	
1971 015BA		5262	USSR	25 FEB	4 OCT 74	
1971 015BD		5274	USSR	25 FEB	19 AUG 80	
1971 015BG		5323	USSR	25 FEB	13 APR 81	
1971 015BH		5324	USSR	25 FEB	19 NOV 80	
1971 015BM		5415	USSR	25 FEB	9 JUL 78	
1971 015BS		5528	USSR	25 FEB	21 FEB 78	
1971 015BW		5532	USSR	25 FEB	16 OCT 81	
1971 015CE		5762	USSR	25 FEB	5 OCT 81	
1971 015CG		6043	USSR	25 FEB	31 JUL 79	
1971 015CJ		6749	USSR	25 FEB	11 JUN 74	
1971 016B		4967	USSR	26 FEB	1 MAR 71	
1971 016C		5008	USSR	26 FEB	12 MAY 71	
1971 016D		5039	USSR	26 FEB	28 MAR 71	
1971 016E		5040	USSR	26 FEB	23 MAR 71	
1971 017A	COSMOS 399	5003	USSR	3 MAR	17 MAR 71	
1971 017B		5004	USSR	3 MAR	8 MAR 71	
1971 017C		5047	USSR	3 MAR	25 MAR 71	
1971 017D		5048	USSR	3 MAR	31 MAR 71	
1971 017E		5049	USSR	3 MAR	23 MAR 71	
1971 018A	MAO 2	5007	PRC	3 MAR	17 JUN 79	
1971 018B		5041	PRC	3 MAR	16 FEB 76	
1971 019A	EXPLORER 43	5043	US	13 MAR	2 OCT 74	
1971 019B		5044	US	13 MAR	22 MAY 71	
1971 019C		5045	US	13 MAR	15 MAR 75	
1971 019D		5046	US	13 MAR	19 APR 71	
1971 019E		5112	US	13 MAR	19 APR 71	
1971 022A		5059	US	24 MAR	12 APR 71	
1971 023A	COSMOS 401	5086	USSR	27 MAR	9 APR 71	
1971 023B		5087	USSR	27 MAR	2 APR 71	
1971 023C		5119	USSR	27 MAR	16 APR 71	
1971 023D		5120	USSR	27 MAR	12 APR 71	
1971 023E		5121	USSR	27 MAR	12 APR 71	
1971 025B		5107	USSR	1 APR	6 MAY 71	
1971 025C		5109	USSR	1 APR	6 APR 71	
1971 025D		5110	USSR	1 APR	5 APR 71	
1971 026A	COSMOS 403	5108	USSR	2 APR	14 APR 71	
1971 026B		5111	USSR	2 APR	5 APR 71	
1971 027A	COSMOS 404	5113	USSR	4 APR	4 APR 71	
1971 027B		5114	USSR	4 APR	12 APR 71	
1971 027C		5115	USSR	4 APR	6 APR 71	
1971 027D		5116	USSR	4 APR	7 APR 71	
1971 028C		5311	USSR	7 APR	12 MAY 74	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)						
1971 029A	COSMOS 406	5124	USSR	14 APR	24 APR 71	
1971 029B		5125	USSR	14 APR	17 APR 71	
1971 029C		5127	USSR	14 APR	14 APR 71	
1971 029D		5169	USSR	14 APR	24 APR 71	
1971 029E		5170	USSR	14 APR	28 APR 71	
1971 029F		5179	USSR	14 APR	26 APR 71	
1971 030A	TOURNESOL	5128	FRANCE	15 APR	28 JAN 80	
1971 030B		5135	FRANCE	15 APR	10 JUL 79	
1971 030C		5139	FRANCE	15 APR	15 JUL 72	
1971 030D		5140	FRANCE	15 APR	15 JUL 77	
1971 030E		5141	FRANCE	15 APR	15 APR 76	
1971 030F		5164	FRANCE	15 APR	3 FEB 77	
1971 030G		5209	FRANCE	15 APR	13 JUL 72	
1971 030H		5268	FRANCE	15 APR	22 MAR 75	
1971 032A	SALYUT 1	5160	USSR	19 APR	11 OCT 71	
1971 032B		5161	USSR	19 APR	20 APR 71	
1971 032C		5162	USSR	19 APR	20 APR 71	
1971 032D		5163	USSR	19 APR	21 APR 71	
1971 032E		5166	USSR	19 APR	24 APR 71	
1971 032F		5167	USSR	19 APR	21 APR 71	
1971 032G		5168	USSR	19 APR	21 APR 71	
1971 033A		5171	US	22 APR	13 MAY 71	
1971 034A	SOYUZ 10	5172	USSR	22 APR	24 APR 71	E*
1971 034B		5173	USSR	22 APR	25 APR 71	
1971 036A	SAN MARCO 3	5176	ITALY	24 APR	29 NOV 71	
1971 037A	COSMOS 408	5177	USSR	24 APR	29 DEC 71	
1971 037B		5178	USSR	24 APR	29 SEP 71	
1971 039C		5206	US	5 MAY	5 MAY 71	
1971 040A	COSMOS 410	5207	USSR	6 MAY	18 MAY 71	
1971 040B		5208	USSR	6 MAY	11 MAY 71	
1971 040C		5228	USSR	6 MAY	25 MAY 71	
1971 040D		5229	USSR	6 MAY	19 MAY 71	
1971 042A	COSMOS 419	5221	USSR	10 MAY	12 MAY 71	
1971 043A	COSMOS 420	5230	USSR	18 MAY	29 MAY 71	
1971 043B		5231	USSR	18 MAY	21 MAY 71	
1971 043C		5250	USSR	18 MAY	3 JUN 71	
1971 043D		5251	USSR	18 MAY	30 MAY 71	
1971 043E		5260	USSR	18 MAY	31 MAY 71	
1971 044A	COSMOS 421	5232	USSR	19 MAY	8 NOV 71	
1971 044B		5233	USSR	19 MAY	23 AUG 71	
1971 045B		5235	USSR	19 MAY	21 MAY 71	
1971 045C		5236	USSR	19 MAY	21 MAY 71	
1971 045D	CAPSULE	5739	USSR	19 MAY	27 NOV 71	AR*
1971 047A	COSMOS 423	5246	USSR	27 MAY	26 NOV 71	
1971 047B		5247	USSR	27 MAY	29 AUG 71	
1971 048A	COSMOS 424	5248	USSR	28 MAY	10 JUN 71	
1971 048B		5249	USSR	28 MAY	3 JUN 71	
1971 048C		5286	USSR	28 MAY	15 JUN 71	
1971 048D		5287	USSR	28 MAY	11 JUN 71	
1971 048E		5292	USSR	28 MAY	11 JUN 71	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)						
1971 049B		5255	USSR	28 MAY	31 MAY 71	
1971 049C		5256	USSR	28 MAY	31 MAY 71	
1971 049D		5263	USSR	28 MAY	1 JUN 71	
1971 049E	CAPSULE	5667	USSR	28 MAY	2 DEC 71	AR*
1971 050A	COSMOS 425	5253	USSR	29 MAY	15 JAN 80	
1971 050B		5254	USSR	29 MAY	28 NOV 79	
1971 050C		5257	USSR	29 MAY	22 MAR 72	
1971 050D		5258	USSR	29 MAY	6 APR 72	
1971 050E		5259	USSR	29 MAY	9 JUN 72	
1971 050F		5299	USSR	29 MAY	14 MAY 72	
1971 052C		5722	USSR	4 JUN	24 MAR 73	
1971 052D		5723	USSR	4 JUN	21 SEP 74	
1971 052E		5782	USSR	4 JUN	22 JUN 73	
1971 052F		5956	USSR	4 JUN	8 DEC 77	
1971 053A	SOYUZ 11	5283	USSR	6 JUN	29 JUN 71	AD*
1971 053B		5284	USSR	6 JUN	7 JUN 71	
1971 054A		5285	US	8 JUN	31 JAN 82	
1971 055A	COSMOS 427	5289	USSR	11 JUN	23 JUN 71	
1971 055B		5290	USSR	11 JUN	20 JUN 71	
1971 055C		5291	USSR	11 JUN	15 JUN 71	
1971 055D		5303	USSR	11 JUN	25 JUN 71	
1971 055E		5304	USSR	11 JUN	28 JUN 71	
1971 056A		5297	US	15 JUN	6 AUG 71	
1971 056B		5298	US	15 JUN	20 JUN 71	
1971 057A	COSMOS 428	5305	USSR	24 JUN	6 JUL 71	
1971 057B		5306	USSR	24 JUN	28 JUN 71	
1971 057C		5307	USSR	24 JUN	27 JUN 71	
1971 057D		5308	USSR	24 JUN	27 JUN 71	
1971 057E		5313	USSR	24 JUN	7 JUL 71	
1971 057F		5314	USSR	24 JUN	5 JUL 71	
1971 057G		5315	USSR	24 JUN	13 JUL 71	
1971 058A	EXPLORER 44	5317	US	8 JUL	15 DEC 79	
1971 058B		5318	US	8 JUL	28 JAN 76	
1971 058C		5319	US	8 JUL	22 SEP 72	
1971 058D		5320	US	8 JUL	7 NOV 75	
1971 059C		5330	USSR	16 JUL	25 AUG 74	
1971 060A		5329	US	16 JUL	31 AUG 78	
1971 061A	COSMOS 429	5331	USSR	20 JUL	2 AUG 71	
1971 061B		5332	USSR	20 JUL	23 JUL 71	
1971 061C		5370	USSR	20 JUL	3 AUG 71	
1971 061D		5371	USSR	20 JUL	4 AUG 71	
1971 061E		5373	USSR	20 JUL	4 AUG 71	
1971 062A	COSMOS 430	5340	USSR	23 JUL	5 AUG 71	
1971 062B		5341	USSR	23 JUL	29 JUL 71	
1971 062C		5342	USSR	23 JUL	26 JUL 71	
1971 062D		5343	USSR	23 JUL	25 JUL 71	
1971 062E		5374	USSR	23 JUL	6 AUG 71	
1971 062F		5378	USSR	23 JUL	9 AUG 71	
1971 062G		5385	USSR	23 JUL	7 AUG 71	
1971 063A	APOLLO 15	5351	US	26 JUL	7 AUG 71	AJ*

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)						
1971 063B		5352	US	26 JUL	30 JUL 71	G*
1971 063C	LUNAR MODULE	5366	US	26 JUL	3 AUG 71	AM*
1971 064A	MOLNIYA 1-18	5367	USSR	28 JUL	19 JUL 77	
1971 064B		5353	USSR	28 JUL	29 AUG 71	
1971 064C		5354	USSR	28 JUL	24 AUG 71	
1971 064D		5368	USSR	28 JUL	14 AUG 77	
1971 064E		5355	USSR	28 JUL	4 AUG 71	
1971 064F		5356	USSR	28 JUL	2 AUG 71	
1971 065A	COSMOS 431	5364	USSR	30 JUL	11 AUG 71	
1971 065B		5365	USSR	30 JUL	4 AUG 71	
1971 065C		5369	USSR	30 JUL	5 AUG 71	
1971 066A	COSMOS 432	5379	USSR	5 AUG	18 AUG 71	
1971 066B		5380	USSR	5 AUG	9 AUG 71	
1971 066C		5381	USSR	5 AUG	8 AUG 71	
1971 066D		5436	USSR	5 AUG	21 AUG 71	
1971 066E		5437	USSR	5 AUG	18 AUG 71	
1971 067A	OV1-20	5394	US	7 AUG	28 AUG 71	
1971 067C	OAR-901	5382	US	7 AUG	31 JAN 72	
1971 067D	OAR-907	5383	US	7 AUG	19 SEP 71	
1971 067F		5396	US	7 AUG	11 JUN 72	
1971 067G		5401	US	7 AUG	14 APR 79	
1971 067H		5406	US	7 AUG	2 NOV 79	
1971 067P		5410	US	7 AUG	1 SEP 81	
1971 068A	COSMOS 433	5402	USSR	8 AUG	9 AUG 71	
1971 068B		5403	USSR	8 AUG	10 AUG 71	
1971 068C		5404	USSR	8 AUG	10 AUG 71	
1971 069A	COSMOS 434	5407	USSR	12 AUG	12 AUG 81	
1971 069B		5408	USSR	12 AUG	18 AUG 71	
1971 069D		5427	USSR	12 AUG	19 SEP 71	
1971 069E		5428	USSR	12 AUG	28 OCT 71	
1971 070A		5409	US	12 AUG	3 SEP 71	
1971 070B		5452	US	12 AUG	4 SEP 71	
1971 072A	COSMOS 435	5441	USSR	27 AUG	28 JAN 72	
1971 072B		5442	USSR	27 AUG	20 NOV 71	
1971 073A	LUNA 18	5448	USSR	2 SEP	11 SEP 71	A*
1971 073C		5450	USSR	2 SEP	7 SEP 71	
1971 073D		5451	USSR	2 SEP	7 SEP 71	
1971 073E		5453	USSR	2 SEP	8 SEP 71	
1971 074A	COSMOS 436	5461	USSR	7 SEP	4 JAN 80	
1971 074B		5462	USSR	7 SEP	13 MAR 80	AS*
1971 074C		5463	USSR	7 SEP	12 MAY 72	
1971 074D		5464	USSR	7 SEP	22 JAN 72	
1971 074E		5465	USSR	7 SEP	9 MAY 72	
1971 074F		5470	USSR	7 SEP	11 MAY 72	
1971 074G		5583	USSR	7 SEP	30 JUL 72	
1971 074H		5584	USSR	7 SEP	19 APR 72	
1971 074J		5718	USSR	7 SEP	7 JUN 72	
1971 074K		5776	USSR	7 SEP	6 MAY 72	
1971 074L		5777	USSR	7 SEP	11 JUN 72	
1971 074M		5779	USSR	7 SEP	11 APR 72	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)						
1971 074N		5780	USSR	7 SEP	5 JUL 72	
1971 074P		5781	USSR	7 SEP	27 MAY 72	
1971 074Q		5783	USSR	7 SEP	12 JUL 72	
1971 075A	COSMOS 437	5466	USSR	10 SEP	29 MAR 80	
1971 075B		5467	USSR	10 SEP	6 JAN 80	
1971 075C		8779	USSR	10 SEP	23 FEB 77	
1971 076A		5468	US	10 SEP	5 OCT 71	
1971 076B		5469	US	10 SEP	3 FEB 76	
1971 076C		6181	US	10 SEP	29 MAR 73	
1971 077A	COSMOS 438	5475	USSR	14 SEP	27 SEP 71	
1971 077B		5476	USSR	14 SEP	22 SEP 71	
1971 077C		5477	USSR	14 SEP	16 SEP 71	
1971 077D		5482	USSR	14 SEP	28 SEP 71	
1971 077E		5483	USSR	14 SEP	27 SEP 71	
1971 077F		5484	USSR	14 SEP	30 SEP 71	
1971 078A	COSMOS 439	5478	USSR	21 SEP	2 OCT 71	
1971 078B		5479	USSR	21 SEP	27 SEP 71	
1971 079A	COSMOS 440	5480	USSR	24 SEP	29 OCT 72	
1971 079B		5481	USSR	24 SEP	10 MAY 72	
1971 081A	COSMOS 441	5486	USSR	28 SEP	10 OCT 71	
1971 081B		5487	USSR	28 SEP	3 OCT 71	
1971 081C		5495	USSR	28 SEP	6 OCT 71	
1971 081D		5496	USSR	28 SEP	28 SEP 71	
1971 081E		5541	USSR	28 SEP	13 OCT 71	
1971 081F		5542	USSR	28 SEP	11 OCT 71	
1971 081G		5543	USSR	28 SEP	12 OCT 71	
1971 082B		5489	USSR	28 SEP	1 OCT 71	
1971 082D		5494	USSR	28 SEP	1 OCT 71	
1971 083A	OSO 7	5491	US	29 SEP	9 JUL 74	
1971 083B	TETR 4	5492	US	29 SEP	21 SEP 78	
1971 083C		5499	US	29 SEP	24 JAN 74	
1971 083D		5610	US	29 SEP	20 DEC 71	
1971 084A	COSMOS 442	5493	USSR	29 SEP	12 OCT 71	
1971 084B		5497	USSR	29 SEP	6 OCT 71	
1971 084C		5544	USSR	29 SEP	14 OCT 71	
1971 084D		5545	USSR	29 SEP	17 OCT 71	
1971 084E		5546	USSR	29 SEP	19 OCT 71	
1971 085A	COSMOS 443	5536	USSR	7 OCT	19 OCT 71	
1971 085B		5537	USSR	7 OCT	13 OCT 71	
1971 085C		5538	USSR	7 OCT	14 OCT 71	
1971 085D		5539	USSR	7 OCT	10 OCT 71	
1971 085E		5561	USSR	7 OCT	21 OCT 71	
1971 085F		5562	USSR	7 OCT	30 OCT 71	
1971 088A	COSMOS 452	5558	USSR	14 OCT	27 OCT 71	
1971 088B		5559	USSR	14 OCT	18 OCT 71	
1971 088C		5577	USSR	14 OCT	28 OCT 71	
1971 088D		5578	USSR	14 OCT	31 OCT 71	
1971 088E		5579	USSR	14 OCT	30 OCT 71	
1971 088F		5590	USSR	14 OCT	16 NOV 71	
1971 090A	COSMOS 453	5563	USSR	19 OCT	19 MAR 72	

DECAYED OBJECTS

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)						
1971 090B		5564	USSR	19 OCT	1 JAN 72	
1971 090C		5596	USSR	19 OCT	24 DEC 71	
1971 091A		5565	US	21 OCT	21 JUL 72	
1971 091B		5566	US	21 OCT	18 NOV 71	
1971 091C		5570	US	21 OCT	9 FEB 72	
1971 091D		5576	US	21 OCT	23 JUL 83	
1971 091E		5602	US	21 OCT	1 JUL 74	
1971 092A		5575	US	23 OCT	17 NOV 71	
1971 092B		5606	US	23 OCT	17 NOV 71	
1971 093C		5582	UK	28 OCT	16 DEC 79	
1971 094A	COSMOS 454	5585	USSR	2 NOV	16 NOV 71	
1971 094B		5586	USSR	2 NOV	6 NOV 71	
1971 094C		5603	USSR	2 NOV	22 NOV 71	
1971 094D		5604	USSR	2 NOV	25 NOV 71	
1971 094E		5605	USSR	2 NOV	22 NOV 71	
1971 094F		5607	USSR	2 NOV	21 NOV 71	
1971 097A	COSMOS 455	5608	USSR	17 NOV	9 APR 72	
1971 097B		5609	USSR	17 NOV	8 FEB 72	
1971 098A	COSMOS 456	5611	USSR	19 NOV	2 DEC 71	
1971 098B		5612	USSR	19 NOV	25 NOV 71	
1971 098C		5613	USSR	19 NOV	20 NOV 71	
1971 098D		5616	USSR	19 NOV	20 NOV 71	
1971 098E		5639	USSR	19 NOV	10 DEC 71	
1971 098F		5640	USSR	19 NOV	6 DEC 71	
1971 098G		5653	USSR	19 NOV	5 DEC 71	
1971 098H		5657	USSR	19 NOV	6 DEC 71	
1971 100A	MOLNIYA 2-1	5620	USSR	24 NOV	10 MAY 76	
1971 100B		5617	USSR	24 NOV	19 DEC 71	
1971 100C		5618	USSR	24 NOV	30 DEC 71	
1971 100D		5619	USSR	24 NOV	29 NOV 71	
1971 100E		5689	USSR	24 NOV	5 JAN 74	
1971 101A	COSMOS 458	5623	USSR	29 NOV	20 APR 72	
1971 101B		5624	USSR	29 NOV	14 FEB 72	
1971 102A	COSMOS 459	5625	USSR	29 NOV	27 DEC 71	
1971 102B		5626	USSR	29 NOV	11 DEC 71	
1971 102C		5627	USSR	29 NOV	4 DEC 71	
1971 103A	COSMOS 460	5628	USSR	30 NOV	5 MAR 80	
1971 103B		5629	USSR	30 NOV	4 MAY 80	
1971 103C		5630	USSR	30 NOV	21 NOV 72	
1971 104A	INTERCOSMOS 5	5641	USSR	2 DEC	7 APR 72	
1971 104B		5642	USSR	2 DEC	2 MAR 72	
1971 104C		5645	USSR	2 DEC	13 DEC 71	
1971 105A	COSMOS 461	5643	USSR	2 DEC	21 FEB 79	
1971 105B		5644	USSR	2 DEC	29 APR 79	
1971 105C		5647	USSR	2 DEC	3 APR 72	
1971 105D		5648	USSR	2 DEC	3 APR 72	
1971 106A	COSMOS 462	5646	USSR	3 DEC	4 APR 75	
1971 106B		5649	USSR	3 DEC	2 FEB 72	AT*
1971 106C		5650	USSR	3 DEC	5 JAN 72	
1971 106D		5651	USSR	3 DEC	9 FEB 72	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)						
1971 106E		5652	USSR	3 DEC	24 DEC 71	
1971 106F		5654	USSR	3 DEC	10 FEB 72	
1971 106G		5655	USSR	3 DEC	31 MAR 72	
1971 106H		5656	USSR	3 DEC	24 DEC 71	
1971 106J		5658	USSR	3 DEC	19 DEC 71	
1971 106K		5659	USSR	3 DEC	18 FEB 72	
1971 106L		5660	USSR	3 DEC	20 MAR 72	
1971 106M		5664	USSR	3 DEC	11 DEC 71	
1971 106N		5665	USSR	3 DEC	11 DEC 71	
1971 106P		5666	USSR	3 DEC	9 MAR 72	
1971 106Q		5668	USSR	3 DEC	26 JAN 72	
1971 106R		5672	USSR	3 DEC	13 DEC 71	
1971 106S		5673	USSR	3 DEC	18 MAR 72	
1971 106T		5798	USSR	3 DEC	2 MAR 72	
1971 106U		5799	USSR	3 DEC	18 MAR 72	
1971 106V		5800	USSR	3 DEC	8 MAR 72	
1971 106W		5801	USSR	3 DEC	6 FEB 73	
1971 106X		5802	USSR	3 DEC	29 OCT 72	
1971 106Y		5803	USSR	3 DEC	26 FEB 72	
1971 106Z		5831	USSR	3 DEC	16 MAR 72	
1971 106AA		5832	USSR	3 DEC	15 MAR 72	
1971 106AB		5833	USSR	3 DEC	25 FEB 72	
1971 106AC		5834	USSR	3 DEC	19 MAR 72	
1971 106AD		5866	USSR	3 DEC	11 JUL 72	
1971 106AE		5867	USSR	3 DEC	22 MAR 72	
1971 107A	COSMOS 463	5661	USSR	6 DEC	11 DEC 71	
1971 107B		5662	USSR	6 DEC	11 DEC 71	
1971 107C		5663	USSR	6 DEC	9 DEC 71	
1971 107D		5669	USSR	6 DEC	15 DEC 71	
1971 108A	COSMOS 464	5670	USSR	10 DEC	16 DEC 71	
1971 108B		5671	USSR	10 DEC	24 DEC 71	
1971 108C		5674	USSR	10 DEC	27 DEC 71	
1971 108D		5684	USSR	10 DEC	17 DEC 71	
1971 108E		5686	USSR	10 DEC	19 DEC 71	
1971 109A	ARIEL 4	5675	UK	11 DEC	12 DEC 78	
1971 109B		5676	US	11 DEC	9 AUG 78	
1971 109C		5677	US	11 DEC	18 JAN 73	
1971 109D		5979	US	11 DEC	20 OCT 72	
1971 112A	COSMOS 466	5687	USSR	16 DEC	27 DEC 71	
1971 112B		5688	USSR	16 DEC	21 DEC 71	
1971 112C		5725	USSR	16 DEC	3 JAN 72	
1971 112D		5726	USSR	16 DEC	31 DEC 71	
1971 113A	COSMOS 467	5704	USSR	17 DEC	18 APR 72	
1971 113B		5706	USSR	17 DEC	17 FEB 72	
1971 115A	MOLNIYA 1-19	5712	USSR	19 DEC	13 APR 77	
1971 115B		5713	USSR	19 DEC	22 SEP 77	
1971 115C		5708	USSR	19 DEC	26 JAN 72	
1971 115D		5710	USSR	19 DEC	27 JAN 72	
1971 117B		5737	USSR	25 DEC	9 FEB 72	
1971 117C		5738	USSR	25 DEC	7 JAN 72	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)						
1971 118A	COSMOS 470	5727	USSR	27 DEC	6 JAN 72	
1971 118B		5728	USSR	27 DEC	30 DEC 71	
1971 118C		5740	USSR	27 DEC	6 JAN 72	
1971 118D		5741	USSR	27 DEC	6 JAN 72	
1971 118E		5742	USSR	27 DEC	7 JAN 72	
1971 119C		5962	USSR	27 DEC	19 FEB 78	
1971 119D		6163	USSR	27 DEC	2 OCT 73	
1971 119E		6190	USSR	27 DEC	25 OCT 77	
1971 120E		9800	USSR	29 DEC	24 APR 84	
1972 LAUNCHES						
1972 001A	COSMOS 471	5764	USSR	12 JAN	25 JAN 72	
1972 001B		5765	USSR	12 JAN	20 JAN 72	
1972 001C		5767	USSR	12 JAN	15 JAN 72	
1972 001D		5773	USSR	12 JAN	24 JAN 72	
1972 001E		5774	USSR	12 JAN	24 JAN 72	
1972 001F		5806	USSR	12 JAN	26 JAN 72	
1972 001G		5812	USSR	12 JAN	26 JAN 72	
1972 002A		5769	US	20 JAN	29 FEB 72	
1972 002B		5770	US	20 JAN	23 JAN 72	
1972 002C		5771	US	20 JAN	23 JAN 72	
1972 002D		5772	US	20 JAN	17 APR 79	
1972 004A	COSMOS 472	5804	USSR	25 JAN	18 AUG 72	
1972 004B		5805	USSR	25 JAN	6 MAY 72	
1972 005A	HEOS-A2	5814	ESRO	31 JAN	2 AUG 74	
1972 005B		5815	US	31 JAN	27 SEP 78	
1972 005C		5817	US	31 JAN	1 SEP 74	
1972 005D		5818	US	31 JAN	8 JUN 75	
1972 005E		5819	US	31 JAN	2 SEP 75	
1972 006A	COSMOS 473	5821	USSR	3 FEB	15 FEB 72	
1972 006B		5822	USSR	3 FEB	11 FEB 72	
1972 007A	LUNA 20	5835	USSR	14 FEB	25 FEB 72	AP*
1972 007C		5837	USSR	14 FEB	17 FEB 72	
1972 007D		5838	USSR	14 FEB	17 FEB 72	
1972 007E		5841	USSR	14 FEB	21 FEB 72	R*
1972 008A	COSMOS 474	5839	USSR	16 FEB	29 FEB 72	
1972 008B		5840	USSR	16 FEB	23 FEB 72	
1972 008C		5848	USSR	16 FEB	29 FEB 72	
1972 008D		5849	USSR	16 FEB	28 FEB 72	
1972 008E		5850	USSR	16 FEB	1 MAR 72	
1972 010C		5855	US	1 MAR	3 MAR 72	
1972 012C		5878	US	3 MAR	18 AUG 72	
1972 013A	COSMOS 477	5862	USSR	4 MAR	16 MAR 72	
1972 013B		5863	USSR	4 MAR	10 MAR 72	
1972 013C		5864	USSR	4 MAR	5 MAR 72	
1972 013D		5865	USSR	4 MAR	5 MAR 72	
1972 013E		5882	USSR	4 MAR	23 MAR 72	
1972 013F		5883	USSR	4 MAR	17 MAR 72	
1972 014A	TD-1A	5879	ESRO	12 MAR	9 JAN 80	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)						
1972 014B		5880	US	12 MAR	9 OCT 80	
1972 014C		5881	ESRO	12 MAR	22 MAY 72	
1972 014D		5884	ESRO	12 MAR	15 NOV 75	
1972 014E		5932	ESRO	12 MAR	27 OCT 75	
1972 015A	COSMOS 478	5885	USSR	15 MAR	28 MAR 72	
1972 015B		5886	USSR	15 MAR	21 MAR 72	
1972 015C		5887	USSR	15 MAR	17 MAR 72	
1972 015D		5909	USSR	15 MAR	28 MAR 72	
1972 015E		5910	USSR	15 MAR	30 MAR 72	
1972 015F		5915	USSR	15 MAR	30 MAR 72	
1972 016A		5888	US	17 MAR	11 APR 72	
1972 017A	COSMOS 479	5894	USSR	22 MAR	13 APR 80	
1972 017B		5895	USSR	22 MAR	12 MAY 80	
1972 017C		5901	USSR	22 MAR	26 NOV 72	
1972 017D		5902	USSR	22 MAR	1 NOV 72	
1972 017E		5911	USSR	22 MAR	5 NOV 72	
1972 020A	COSMOS 481	5906	USSR	25 MAR	2 SEP 72	
1972 020B		5908	USSR	25 MAR	11 JUN 72	
1972 021A	VENERA 8	5912	USSR	27 MAR	22 JUL 72	N*
1972 021B		5913	USSR	27 MAR	29 MAR 72	
1972 021C		5914	USSR	27 MAR	29 MAR 72	
1972 023A	COSMOS 482	5919	USSR	31 MAR	5 MAY 81	
1972 023B		5920	USSR	31 MAR	1 APR 72	
1972 023C		5921	USSR	27 MAR	2 APR 72	
1972 023D		5923	USSR	31 MAR	20 FEB 83	
1972 024A	COSMOS 483	5924	USSR	3 APR	15 APR 72	
1972 024B		5925	USSR	3 APR	11 APR 72	
1972 024C		5926	USSR	3 APR	12 APR 72	
1972 024D		5943	USSR	3 APR	19 APR 72	
1972 024E		5944	USSR	3 APR	18 APR 72	
1972 025A	MOLNIYA 1-20	5927	USSR	4 APR	30 JAN 74	
1972 025B	SRET 1	5928	FRANCE	4 APR	26 FEB 74	
1972 025C		5929	USSR	4 APR	28 APR 72	
1972 025D		5930	USSR	4 APR	8 MAY 72	
1972 025E		5931	USSR	4 APR	10 APR 72	
1972 025F		5935	USSR	4 APR	10 APR 72	
1972 025G		5940	USSR	4 APR	8 MAR 74	
1972 026A	COSMOS 484	5933	USSR	6 APR	18 APR 72	
1972 026B		5934	USSR	6 APR	8 APR 72	
1972 026C		6002	USSR	6 APR	18 APR 72	
1972 027A	INTERCOSMOS 5	5936	USSR	7 APR	11 APR 72	
1972 027B		5937	USSR	7 APR	10 APR 72	
1972 028A	COSMOS 485	5938	USSR	11 APR	30 AUG 72	
1972 028B		5939	USSR	11 APR	16 JUN 72	
1972 029B		5942	USSR	14 APR	11 MAY 72	
1972 029C		5946	USSR	14 APR	17 MAY 72	
1972 029D		5949	USSR	14 APR	19 APR 72	
1972 029E		6008	USSR	14 APR	1 JUN 72	
1972 030A	COSMOS 486	5945	USSR	14 APR	27 APR 72	
1972 030B		5947	USSR	14 APR	17 APR 72	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)						
1972 030C		5948	USSR	14 APR	22 APR 72	
1972 030D		6010	USSR	14 APR	27 APR 72	
1972 030E		6011	USSR	14 APR	26 APR 72	
1972 030F		6012	USSR	14 APR	28 APR 72	
1972 031A	APOLLO 16	6000	US	16 APR	27 APR 72	AJ*
1972 031B		6001	US	16 APR	19 APR 72	G*
1972 031D	APOLLO 16	6009	US	16 APR	29 MAY 72	G*
1972 031D	SUBSATELLITE	62022				
1972 032A		6003	US	19 APR	12 MAY 72	
1972 033A	COSMOS 487	6006	USSR	21 APR	24 SEP 72	
1972 033B		6007	USSR	21 APR	3 JUL 72	
1972 033C		6013	USSR	21 APR	29 APR 72	
1972 034A	COSMOS 488	6016	USSR	5 MAY	18 MAY 72	
1972 034B		6017	USSR	5 MAY	11 MAY 72	
1972 034C		6018	USSR	5 MAY	7 MAY 72	
1972 034D		6023	USSR	5 MAY	20 MAY 72	
1972 034E		6024	USSR	5 MAY	23 MAY 72	
1972 034F		6025	USSR	5 MAY	20 MAY 72	
1972 034G		6026	USSR	5 MAY	20 MAY 72	
1972 034H		6027	USSR	5 MAY	19 MAY 72	
1972 036A	COSMOS 490	6021	USSR	17 MAY	29 MAY 72	
1972 036B		6022	USSR	17 MAY	23 MAY 72	
1972 036C		6039	USSR	17 MAY	30 MAY 72	
1972 036D		6040	USSR	17 MAY	6 JUN 72	
1972 037A	MOLNIYA 2-2	6031	USSR	19 MAY	22 MAR 77	
1972 037B		6028	USSR	19 MAY	8 JUN 72	
1972 037C		6029	USSR	19 MAY	9 JUN 72	
1972 037D		6030	USSR	19 MAY	6 JUN 72	
1972 037E		6032	USSR	19 MAY	26 MAY 72	
1972 037F		6033	USSR	19 MAY	1 JUN 72	
1972 037G		6034	USSR	19 MAY	1 JUN 77	
1972 038A	COSMOS 491	6035	USSR	25 MAY	8 JUN 72	
1972 038B		6036	USSR	25 MAY	30 MAY 72	
1972 038C		6038	USSR	25 MAY	29 MAY 72	
1972 038D		6046	USSR	25 MAY	9 JUN 72	
1972 038E		6047	USSR	25 MAY	11 JUN 72	
1972 038F		6048	USSR	25 MAY	10 JUN 72	
1972 039A		6037	US	25 MAY	4 JUN 72	
1972 040A	COSMOS 492	6049	USSR	9 JUN	22 JUN 72	
1972 040B		6050	USSR	9 JUN	18 JUN 72	
1972 040C		6055	USSR	9 JUN	24 JUN 72	
1972 040D		6057	USSR	9 JUN	27 JUN 72	
1972 040E		6064	USSR	9 JUN	27 JUN 72	
1972 042A	COSMOS 493	6053	USSR	21 JUN	3 JUL 72	
1972 042B		6054	USSR	21 JUN	25 JUN 72	
1972 042C		6056	USSR	21 JUN	23 JUN 72	
1972 043E		6162	USSR	23 JUN	23 MAR 82	
1972 044A	COSMOS 495	6060	USSR	23 JUN	6 JUL 72	
1972 044B		6062	USSR	23 JUN	29 JUN 72	
1972 044C		6088	USSR	23 JUN	6 JUL 72	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)						
1972 044D		6089	USSR	23 JUN	8 JUL 72	
1972 044E		6093	USSR	23 JUN	7 JUL 72	
1972 045A	COSMOS 496	6066	USSR	26 JUN	2 JUL 72	
1972 045B		6067	USSR	26 JUN	2 JUL 72	
1972 045C		6083	USSR	26 JUN	4 JUL 72	
1972 046B		6069	USSR	29 JUN	1 AUG 72	
1972 046C		6070	USSR	29 JUN	13 AUG 72	
1972 046D		6071	USSR	29 JUN	19 JUL 72	
1972 046E		6074	USSR	29 JUN	4 JUL 72	
1972 047A	INTERCOSMOS 7	6075	USSR	30 JUN	5 OCT 72	
1972 047B		6078	USSR	30 JUN	29 SEP 72	
1972 047C		6081	USSR	30 JUN	1 SEP 72	
1972 048A	COSMOS 497	6076	USSR	30 JUN	7 NOV 73	
1972 048B		6077	USSR	30 JUN	17 MAR 73	
1972 048C		6082	USSR	30 JUN	1 JAN 76	
1972 050A	COSMOS 498	6086	USSR	5 JUL	25 NOV 72	
1972 050B		6087	USSR	5 JUL	27 SEP 72	
1972 051A	COSMOS 499	6090	USSR	6 JUL	17 JUL 72	
1972 051B		6091	USSR	6 JUL	10 JUL 72	
1972 051C		6092	USSR	6 JUL	10 JUL 72	
1972 051D		6112	USSR	6 JUL	19 JUL 72	
1972 051E		6113	USSR	6 JUL	20 JUL 72	
1972 052A		6094	US	7 JUL	13 SEP 72	
1972 052B		6095	US	7 JUL	9 JUL 72	
1972 052C		6096	US	7 JUL	6 MAY 78	
1972 053A	COSMOS 500	6097	USSR	10 JUL	29 MAR 80	
1972 053B		6098	USSR	10 JUL	27 APR 80	
1972 053C		6101	USSR	10 JUL	25 MAR 73	
1972 053D		6102	USSR	10 JUL	15 APR 73	
1972 053E		6164	USSR	10 JUN	29 MAR 73	
1972 053F		6174	USSR	10 JUL	14 APR 73	
1972 054A	COSMOS 501	6099	USSR	12 JUL	9 MAY 74	
1972 054B		6100	USSR	12 JUL	10 JUN 73	
1972 054C		6103	USSR	12 JUL	5 SEP 72	
1972 054D		6104	USSR	12 JUL	3 AUG 72	
1972 054E		6107	USSR	12 JUL	7 AUG 72	
1972 054F		6108	USSR	12 JUL	6 AUG 72	
1972 054G		6109	USSR	12 JUL	25 JUL 72	
1972 054H		6110	USSR	12 JUL	25 JUL 72	
1972 054J		6133	USSR	12 JUL	18 SEP 72	
1972 055A	COSMOS 502	6105	USSR	13 JUL	25 JUL 72	
1972 055B		6106	USSR	13 JUL	18 JUL 72	
1972 055C		6111	USSR	13 JUL	15 JUL 72	
1972 055D		6128	USSR	13 JUL	25 JUL 72	
1972 055E		6129	USSR	13 JUL	26 JUL 72	
1972 056A	COSMOS 503	6114	USSR	19 JUL	1 AUG 72	
1972 056B		6115	USSR	19 JUL	27 JUL 72	
1972 056C		6116	USSR	19 JUL	23 JUL 72	
1972 056D		6132	USSR	19 JUL	1 AUG 72	
1972 056E		6134	USSR	19 JUL	3 AUG 72	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)						
1972 058B		6127	US	23 JUL	12 FEB 77	
1972 058D		7833	US	23 JUL	29 JUN 81	
1972 058E		7834	US	23 JUL	9 MAY 81	
1972 058F		7835	US	23 JUL	23 FEB 77	
1972 058H		7837	US	23 JUL	25 SEP 81	
1972 058Q		7844	US	23 JUL	27 MAR 82	
1972 058AC		7856	US	23 JUL	9 MAY 79	
1972 058AE		7858	US	23 JUL	28 DEC 81	
1972 058AF		7859	US	23 JUL	9 APR 80	
1972 058AG		7860	US	23 JUL	18 JUL 79	
1972 058AH		7861	US	23 JUL	30 JUL 79	
1972 058AJ		7862	US	23 JUL	11 JUL 80	
1972 058AK		7863	US	23 JUL	2 NOV 79	
1972 058AL		7864	US	23 JUL	14 AUG 81	
1972 058AU		7872	US	23 JUL	2 MAR 82	
1972 058AV		7873	US	23 JUL	31 DEC 78	
1972 058AZ		7882	US	23 JUL	13 NOV 80	
1972 058BA		7883	US	23 JUL	4 NOV 81	
1972 058BB		7884	US	23 JUL	23 NOV 75	
1972 058BC		7886	US	23 JUL	3 MAY 80	
1972 058BD		7887	US	23 JUL	17 MAR 80	
1972 058BH		7891	US	23 JUL	25 SEP 81	
1972 058BL		7894	US	23 JUL	25 APR 80	
1972 058BM		7895	US	23 JUL	24 OCT 79	
1972 058BN		7896	US	23 JUL	27 NOV 79	
1972 058BP		7897	US	23 JUL	12 APR 80	
1972 058BQ		7898	US	23 JUL	9 JUL 81	
1972 058BR		7899	US	23 JUL	23 JUL 81	
1972 058BT		7908	US	23 JUL	16 JUN 79	
1972 058BU		7909	US	23 JUL	6 DEC 79	
1972 058BV		7914	US	23 JUL	28 JUN 81	
1972 058BW		7928	US	23 JUL	9 MAY 80	
1972 058BX		7929	US	23 JUL	16 JUL 80	
1972 058CA		7932	US	23 JUL	22 MAY 82	
1972 058CE		7936	US	23 JUL	7 SEP 80	
1972 058CR		7961	US	23 JUL	12 JAN 80	
1972 058CS		7966	US	23 JUL	5 DEC 81	
1972 058CU		7973	US	23 JUL	14 NOV 78	
1972 058CW		7975	US	23 JUL	31 MAR 80	
1972 058CY		7977	US	23 JUL	14 JAN 79	
1972 058CZ		7978	US	23 JUL	9 MAR 80	
1972 058DB		7980	US	23 JUL	18 FEB 79	
1972 058DC		8001	US	23 JUL	18 JUL 78	
1972 058DD		8002	US	23 JUL	27 AUG 80	
1972 058DE		8003	US	23 JUL	26 JAN 79	
1972 058DH		8082	US	23 JUL	11 JAN 80	
1972 058DL		8085	US	23 JUL	23 DEC 78	
1972 058DM		8086	US	23 JUL	12 APR 80	
1972 058DN		8087	US	23 JUL	5 MAY 77	
1972 058DP		8088	US	23 JUL	25 MAY 80	

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1972 LAUNCHES (CONT.)						
1972 058DQ		8089	US	23 JUL	25 NOV 81	
1972 058DR		8090	US	23 JUL	13 JAN 80	
1972 058DS		8091	US	23 JUL	7 FEB 79	
1972 058DU		8093	US	23 JUL	18 JUL 78	
1972 058DV		8094	US	23 JUL	30 APR 80	
1972 058DX		8096	US	23 JUL	28 JUN 76	
1972 058DY		8097	US	23 JUL	15 NOV 75	
1972 058DZ		8098	US	23 JUL	2 FEB 80	
1972 058EC		8124	US	23 JUL	9 NOV 78	
1972 058ED		8125	US	23 JUL	12 OCT 75	
1972 058EE		8126	US	23 JUL	10 JUN 82	
1972 058EF		8313	US	23 JUL	25 MAR 82	
1972 058EH		8315	US	23 JUL	6 NOV 79	
1972 058EJ		8316	US	23 JUL	12 MAY 81	
1972 058EK		8317	US	23 JUL	8 MAR 81	
1972 058EN		8320	US	23 JUL	15 APR 82	
1972 058EP		8321	US	23 JUL	14 APR 79	
1972 058EQ		8374	US	23 JUL	16 JUN 79	
1972 058ER		8375	US	23 JUL	27 MAY 81	
1972 058ET		8377	US	23 JUL	22 NOV 82	
1972 058EU		8378	US	23 JUL	28 MAR 78	
1972 058EV		8379	US	23 JUL	9 MAR 81	
1972 058EW		8380	US	23 JUL	30 MAR 79	
1972 058EX		8381	US	23 JUL	23 SEP 79	
1972 058EY		8382	US	23 JUL	13 OCT 80	
1972 058EZ		8383	US	23 JUL	9 OCT 79	
1972 058FA		8384	US	23 JUL	7 DEC 79	
1972 058FB		8385	US	23 JUL	13 NOV 78	
1972 058FD		8387	US	23 JUL	16 JUN 79	
1972 058FE		8388	US	23 JUL	25 JUN 81	
1972 058FF		8389	US	23 JUL	19 DEC 80	
1972 058FH		8391	US	23 JUL	30 MAR 80	
1972 058FJ		8392	US	23 JUL	4 NOV 82	
1972 058FK		8393	US	23 JUL	16 MAR 77	
1972 058FL		8408	US	23 JUL	14 APR 79	
1972 058FN		8433	US	23 JUL	3 AUG 82	
1972 058FP		8434	US	23 JUL	31 JAN 76	
1972 058FR		8496	US	23 JUL	13 APR 81	
1972 058FT		8498	US	23 JUL	3 NOV 80	
1972 058FU		8499	US	23 JUL	12 NOV 79	
1972 058FV		8500	US	23 JUL	28 JUN 79	
1972 058FW		8501	US	23 JUL	21 NOV 79	
1972 058FX		8502	US	23 JUL	26 SEP 78	
1972 058FY		8503	US	23 JUL	21 MAR 78	
1972 058FZ		8504	US	23 JUL	21 MAR 81	
1972 058GB		8506	US	23 JUL	23 FEB 77	
1972 058GC		8507	US	23 JUL	29 JAN 80	
1972 058GD		8508	US	23 JUL	24 AUG 80	
1972 058GE		8509	US	23 JUL	5 AUG 80	
1972 058GF		8532	US	23 JUL	26 JUL 78	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)						
1972 058GH		8534	US	23 JUL	16 NOV 80	
1972 058GJ		8535	US	23 JUL	16 FEB 79	
1972 058GK		8536	US	23 JUL	22 JAN 78	
1972 058GP		8540	US	23 JUL	2 NOV 77	
1972 058GQ		8541	US	23 JUL	7 JAN 79	
1972 058GS		8543	US	23 JUL	15 MAY 80	
1972 058GV		8568	US	23 JUL	19 AUG 78	
1972 058GX		8570	US	23 JUL	6 OCT 82	
1972 058GY		8571	US	23 JUL	5 MAR 81	
1972 058GZ		8572	US	23 JUL	4 JUL 80	
1972 058HA		8573	US	23 JUL	18 NOV 79	
1972 058HB		8574	US	23 JUL	16 JUN 79	
1972 058HC		8575	US	23 JUL	2 JAN 78	
1972 058HD		8576	US	23 JUL	6 FEB 80	
1972 058HF		8578	US	23 JUL	1 MAY 80	
1972 058HG		8579	US	23 JUL	24 JAN 81	
1972 058HH		8580	US	23 JUL	28 NOV 79	
1972 058HJ		8581	US	23 JUL	8 FEB 80	
1972 058HK		9669	US	23 JUL	24 FEB 79	
1972 058HL		9670	US	23 JUL	8 MAY 82	
1972 058HM		9671	US	23 JUL	14 MAR 80	
1972 058HN		9672	US	23 JUL	2 JUL 78	
1972 058HP		9673	US	23 JUL	16 JUN 79	
1972 058HR		9675	US	23 JUL	23 MAY 79	
1972 058HS		9676	US	23 JUL	28 JUL 81	
1972 058HU		9728	US	23 JUL	10 APR 79	
1972 058HV		9729	US	23 JUL	21 APR 77	
1972 058HW		9788	US	23 JUL	13 APR 81	
1972 058HX		9970	US	23 JUL	10 OCT 80	
1972 058HZ		9972	US	23 JUL	29 JUN 79	
1972 059A	COSMOS 512	6130	USSR	28 JUL	9 AUG 72	
1972 059B		6131	USSR	28 JUL	1 AUG 72	
1972 060A	COSMOS 513	6135	USSR	2 AUG	15 AUG 72	
1972 060B		6136	USSR	2 AUG	9 AUG 72	
1972 060C		6137	USSR	2 AUG	6 AUG 72	
1972 060D		6143	USSR	2 AUG	20 AUG 72	
1972 060E		6144	USSR	2 AUG	24 AUG 72	
1972 060F		6147	USSR	2 AUG	18 AUG 72	
1972 061A	EXPLORER 46	6142	US	13 AUG	2 NOV 79	
1972 061B		6145	US	13 AUG	5 MAR 79	
1972 061C		6146	US	13 AUG	25 MAY 78	
1972 063A	COSMOS 515	6150	USSR	18 AUG	31 AUG 72	
1972 063B		6151	USSR	18 AUG	23 AUG 72	
1972 063C		6165	USSR	18 AUG	3 SEP 72	
1972 063D		6166	USSR	18 AUG	4 SEP 72	
1972 063E		6171	USSR	18 AUG	2 SEP 72	
1972 064A	DENPA	6152	JAPAN	19 AUG	19 MAY 80	
1972 064B		6332	JAPAN	19 AUG	28 APR 81	
1972 065C		6156	US	21 AUG	7 JAN 82	
1972 066B		6196	USSR	21 AUG	25 SEP 72	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)						
1972 066C		6199	USSR	21 AUG	20 OCT 72	
1972 067A	COSMOS 517	6168	USSR	30 AUG	11 SEP 72	
1972 067B		6169	USSR	30 AUG	3 SEP 72	
1972 067C		6170	USSR	30 AUG	8 SEP 72	
1972 068A		6172	US	1 SEP	30 SEP 72	
1972 070A	COSMOS 518	6186	USSR	15 SEP	24 SEP 72	
1972 070B		6187	USSR	15 SEP	22 SEP 72	
1972 070C		6198	USSR	15 SEP	27 SEP 72	
1972 071A	COSMOS 519	6188	USSR	16 SEP	26 SEP 72	
1972 071B		6189	USSR	16 SEP	24 SEP 72	
1972 071C		6191	USSR	16 SEP	19 SEP 72	
1972 071D		6200	USSR	16 SEP	14 OCT 72	
1972 071E		6201	USSR	16 SEP	30 SEP 72	
1972 072B		6193	USSR	19 SEP	20 OCT 72	
1972 072C		6194	USSR	19 SEP	5 NOV 72	
1972 072D		6195	USSR	19 SEP	30 SEP 72	
1972 073B		6202	US	23 SEP	26 SEP 72	
1972 073C		6203	US	23 SEP	?? FEB 76	
1972 073D		6204	US	23 SEP	?? FEB 76	
1972 073E		6205	US	23 SEP	26 SEP 72	
1972 075A	MOLNIYA 2-3	6208	USSR	30 SEP	12 JAN 78	
1972 075B		6209	USSR	30 SEP	26 OCT 72	
1972 075C		6211	USSR	30 SEP	1 NOV 72	
1972 075D		6303	USSR	30 SEP	21 FEB 78	
1972 076E		6224	US	2 OCT	10 DEC 80	
1972 077A	COSMOS 522	6219	USSR	4 OCT	17 OCT 72	
1972 077B		6220	USSR	4 OCT	14 OCT 72	
1972 077C		6238	USSR	4 OCT	24 OCT 72	
1972 077D		6247	USSR	4 OCT	20 OCT 72	
1972 078A	COSMOS 523	6222	USSR	5 OCT	7 MAR 73	
1972 078B		6223	USSR	5 OCT	7 DEC 72	
1972 078C		6225	USSR	5 OCT	17 NOV 72	
1972 078D		6226	USSR	5 OCT	8 NOV 72	
1972 078E		6239	USSR	5 OCT	17 NOV 72	
1972 078F		6240	USSR	5 OCT	22 NOV 72	
1972 078G		6241	USSR	5 OCT	12 NOV 72	
1972 078H		6242	USSR	5 OCT	25 OCT 72	
1972 078J		6243	USSR	5 OCT	19 OCT 72	
1972 078K		6244	USSR	5 OCT	12 NOV 72	
1972 078L		6245	USSR	5 OCT	22 OCT 72	
1972 078M		6246	USSR	5 OCT	23 OCT 72	
1972 079A		6227	US	10 OCT	8 JAN 73	
1972 079B		6228	US	10 OCT	12 OCT 72	
1972 080A	COSMOS 524	6229	USSR	11 OCT	25 MAR 73	
1972 080B		6230	USSR	11 OCT	20 DEC 72	
1972 081A	MOLNIYA 1-21	6231	USSR	14 OCT	1 NOV 77	
1972 081B		6232	USSR	14 OCT	4 NOV 72	
1972 081C		6233	USSR	14 OCT	16 NOV 72	
1972 081D		6234	USSR	14 OCT	14 NOV 72	
1972 081E		6304	USSR	14 OCT	16 MAR 75	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)						
1972 083A	COSMOS 525	6248	USSR	18 OCT	29 OCT 72	
1972 083B		6249	USSR	18 OCT	22 OCT 72	
1972 083C		6258	USSR	18 OCT	1 NOV 72	
1972 083D		6259	USSR	18 OCT	29 OCT 72	
1972 084A	COSMOS 526	6254	USSR	25 OCT	8 APR 73	
1972 084B		6255	USSR	25 OCT	8 JAN 73	
1972 086A	COSMOS 527	6260	USSR	31 OCT	13 NOV 72	
1972 086B		6261	USSR	31 OCT	8 NOV 72	
1972 086C		6263	USSR	31 OCT	3 NOV 72	
1972 086D		6280	USSR	31 OCT	15 NOV 72	
1972 086E		6281	USSR	31 OCT	18 NOV 72	
1972 086F		6284	USSR	31 OCT	18 NOV 72	
1972 088A	COSMOS 536	6272	USSR	3 NOV	20 JUL 80	
1972 088B		6273	USSR	3 NOV	19 JUL 80	
1972 088C		6274	USSR	3 NOV	19 DEC 73	
1972 088D		6700	USSR	3 NOV	28 FEB 83	
1972 090B		6279	US	10 NOV	7 MAY 73	
1972 091A	EXPLORER 48	6282	US	15 NOV	20 AUG 80	
1972 091B		6800	US	15 NOV	1 MAY 79	
1972 092A	ESRO IV	6285	ESRO	22 NOV	15 APR 74	
1972 092B		6286	US	22 NOV	9 JUL 73	
1972 093A	COSMOS 537	6287	USSR	25 NOV	7 DEC 72	
1972 093B		6288	USSR	25 NOV	2 DEC 72	
1972 094A	INTERCOSMOS 8	6291	USSR	30 NOV	2 MAR 73	
1972 094B		6292	USSR	30 NOV	12 JAN 73	
1972 094C		6293	USSR	30 NOV	2 JAN 73	
1972 095A	MOLNIYA 1-22	6294	USSR	2 DEC	11 FEB 76	
1972 095B		6295	USSR	2 DEC	10 JAN 73	
1972 095C		6296	USSR	2 DEC	2 FEB 73	
1972 095D		6297	USSR	2 DEC	12 DEC 72	
1972 095E		6298	USSR	2 DEC	11 DEC 72	
1972 095F		6322	USSR	2 DEC	25 FEB 75	
1972 096A	APOLLO 17	6300	US	7 DEC	19 DEC 72	AJ*
1972 096B		6301	US	7 DEC	10 DEC 72	G*
1972 096C	LUNAR MODULE	6307	US	7 DEC	15 DEC 72	AM*
1972 098A	MOLNIYA 2-4	6308	USSR	12 DEC	22 JAN 75	
1972 098B		6309	USSR	12 DEC	13 JAN 73	
1972 098C		6310	USSR	12 DEC	19 JAN 73	
1972 098D		6341	USSR	12 DEC	7 OCT 74	
1972 099A	COSMOS 538	6311	USSR	14 DEC	27 DEC 72	
1972 099B		6312	USSR	14 DEC	22 DEC 72	
1972 099C		6314	USSR	14 DEC	18 DEC 72	
1972 099D		6325	USSR	14 DEC	4 JAN 73	
1972 099E		6331	USSR	14 DEC	4 JAN 73	
1972 100A	AEROS	6315	FRG	16 DEC	22 AUG 73	
1972 100B		6316	US	16 DEC	25 FEB 73	
1972 103A		6321	US	21 DEC	23 JAN 73	
1972 105A	COSMOS 541	6326	USSR	27 DEC	8 JAN 73	
1972 105B		6327	USSR	27 DEC	12 JAN 73	
1972 105C		6336	USSR	27 DEC	11 JAN 73	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)						
1972 105D		6337	USSR	27 DEC	9 JAN 73	
1972 105E		6338	USSR	27 DEC	12 JAN 73	
1972 105F		6342	USSR	27 DEC	15 JAN 73	
1972 106A	COSMOS 542	6328	USSR	28 DEC	9 OCT 83	
1973 LAUNCHES						
1973 001A	LUNA 21	6333	USSR	8 JAN	15 JAN 73	R*
1973 001B		6334	USSR	8 JAN	12 JAN 73	
1973 001C		6335	USSR	8 JAN	13 JAN 73	
1973 002A	COSMOS 543	6339	USSR	11 JAN	24 JAN 73	
1973 002B		6340	USSR	11 JAN	22 JAN 73	
1973 002C		6346	USSR	11 JAN	28 JAN 73	
1973 002D		6347	USSR	11 JAN	25 JAN 73	
1973 003A	COSMOS 544	6343	USSR	20 JAN	15 JUN 80	
1973 003B		6344	USSR	20 JAN	18 MAY 80	
1973 003C		6345	USSR	20 JAN	14 OCT 75	
1973 003D		6352	USSR	20 JAN	21 MAR 75	
1973 004A	COSMOS 545	6348	USSR	24 JAN	31 JUL 73	
1973 004B		6349	USSR	24 JAN	21 APR 77	
1973 006A	COSMOS 547	6353	USSR	1 FEB	13 FEB 73	
1973 006B		6354	USSR	1 FEB	9 FEB 73	
1973 006C		6355	USSR	1 FEB	2 FEB 73	
1973 007A	MOLNIYA 1-23	6356	USSR	3 FEB	23 OCT 77	
1973 007B		6357	USSR	3 FEB	13 MAR 73	
1973 007C		6358	USSR	3 FEB	18 MAR 73	
1973 007D		6363	USSR	3 FEB	10 MAR 73	
1973 007E		6368	USSR	3 FEB	4 AUG 78	
1973 008A	COSMOS 548	6359	USSR	8 FEB	21 FEB 73	
1973 008B		6360	USSR	8 FEB	16 FEB 73	
1973 008C		6361	USSR	8 FEB	9 FEB 73	
1973 008D		6367	USSR	8 FEB	25 FEB 73	
1973 008E		6369	USSR	8 FEB	23 FEB 73	
1973 008F		6370	USSR	8 FEB	26 FEB 73	
1973 008G		6371	USSR	8 FEB	23 FEB 73	
1973 009B		6365	USSR	15 FEB	22 MAR 73	
1973 009C		6366	USSR	15 FEB	23 MAR 73	
1973 010A	COSMOS 549	6373	USSR	28 FEB	29 JUN 80	
1973 010B		6374	USSR	28 FEB	17 SEP 80	
1973 010C		6375	USSR	28 FEB	24 JUN 74	
1973 011A	COSMOS 550	6376	USSR	1 MAR	11 MAR 73	
1973 011B		6377	USSR	1 MAR	9 MAR 73	
1973 011C		6384	USSR	1 MAR	18 MAR 73	
1973 011D		6385	USSR	1 MAR	12 MAR 73	
1973 011E		6386	USSR	1 MAR	12 MAR 73	
1973 011F		6387	USSR	1 MAR	12 MAR 73	
1973 012A	COSMOS 551	6378	USSR	6 MAR	20 MAR 73	
1973 012B		6379	USSR	6 MAR	13 MAR 73	
1973 012C		6381	USSR	6 MAR	7 MAR 73	
1973 012D		6389	USSR	6 MAR	22 MAR 73	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 012E		6390	USSR	6 MAR	19 MAR 73	
1973 013B		6388	US	6 MAR	4 JUN 74	
1973 014A		6382	US	9 MAR	19 MAY 73	
1973 014B		6383	US	9 MAR	11 MAR 73	
1973 016A	COSMOS 552	6394	USSR	22 MAR	3 APR 73	
1973 016B		6395	USSR	22 MAR	30 MAR 73	
1973 016C		6397	USSR	22 MAR	9 APR 73	
1973 017A	SALYUT 2	6398	USSR	3 APR	28 MAY 73	
1973 017B		6399	USSR	3 APR	6 APR 73	AU*
1973 017C		6400	USSR	3 APR	10 APR 73	
1973 017D		6401	USSR	3 APR	9 APR 73	
1973 017E		6402	USSR	3 APR	12 APR 73	
1973 017F		6403	USSR	3 APR	24 APR 73	
1973 017G		6404	USSR	3 APR	30 APR 73	
1973 017H		6405	USSR	3 APR	6 APR 73	
1973 017J		6406	USSR	3 APR	26 APR 73	
1973 017K		6407	USSR	3 APR	22 APR 73	
1973 017L		6408	USSR	3 APR	8 APR 73	
1973 017M		6409	USSR	3 APR	15 APR 73	
1973 017N		6410	USSR	3 APR	6 APR 73	
1973 017P		6411	USSR	3 APR	8 APR 73	
1973 017Q		6412	USSR	3 APR	8 APR 73	
1973 017R		6413	USSR	3 APR	8 APR 73	
1973 017S		6414	USSR	3 APR	6 APR 73	
1973 017T		6415	USSR	3 APR	12 APR 73	
1973 017U		6416	USSR	3 APR	8 APR 73	
1973 017V		6417	USSR	3 APR	9 APR 73	
1973 017W		6422	USSR	3 APR	9 APR 73	
1973 017X		6423	USSR	3 APR	10 APR 73	
1973 017Y		6424	USSR	3 APR	10 APR 73	
1973 017Z		6429	USSR	3 APR	13 MAY 73	
1973 017AA		6430	USSR	3 APR	12 MAY 73	
1973 017AB		6431	USSR	3 APR	17 APR 73	
1973 018A	MOLNIYA 2-5	6418	USSR	5 APR	6 JAN 79	
1973 018B		6419	USSR	5 APR	24 APR 73	
1973 018C		6420	USSR	5 APR	30 APR 73	
1973 018D		6439	USSR	5 APR	5 DEC 79	
1973 019C		6426	US	6 APR	4 NOV 74	
1973 020A	COSMOS 553	6427	USSR	12 APR	11 NOV 73	
1973 020B		6428	USSR	12 APR	7 AUG 73	
1973 021A	COSMOS 554	6432	USSR	19 APR	27 MAY 73	
1973 021B		6434	USSR	19 APR	26 APR 73	AV*
1973 021C		6436	USSR	19 APR	25 APR 73	
1973 021D		6442	USSR	19 APR	30 APR 73	
1973 021E		6443	USSR	19 APR	1 MAY 73	
1973 021F		6448	USSR	19 APR	24 JUN 73	
1973 021G		6449	USSR	19 APR	21 MAY 73	
1973 021H		6450	USSR	19 APR	16 MAY 73	
1973 021J		6451	USSR	19 APR	24 MAY 73	
1973 021K		6452	USSR	19 APR	16 MAY 73	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 021L		6453	USSR	19 APR	20 MAY 73	
1973 021M		6454	USSR	19 APR	27 MAY 73	
1973 021N		6455	USSR	19 APR	12 MAY 73	
1973 021P		6456	USSR	19 APR	17 MAY 73	
1973 021Q		6457	USSR	19 APR	16 MAY 73	
1973 021R		6458	USSR	19 APR	9 JUN 73	
1973 021S		6459	USSR	19 APR	16 MAY 73	
1973 021T		6460	USSR	19 APR	12 MAY 73	
1973 021U		6461	USSR	19 APR	20 MAY 73	
1973 021V		6462	USSR	19 APR	12 MAY 73	
1973 021W		6463	USSR	19 APR	21 MAY 73	
1973 021X		6464	USSR	19 APR	18 MAY 73	
1973 021Y		6465	USSR	19 APR	27 MAY 73	
1973 021Z		6466	USSR	19 APR	4 JUN 73	
1973 021AA		6467	USSR	19 APR	28 MAY 73	
1973 021AB		6468	USSR	19 APR	6 JUL 73	
1973 021AC		6469	USSR	19 APR	29 JAN 74	
1973 021AD		6470	USSR	19 APR	3 JUL 73	
1973 021AE		6471	USSR	19 APR	29 NOV 73	
1973 021AF		6472	USSR	19 APR	22 MAY 73	
1973 021AG		6473	USSR	19 APR	30 MAY 73	
1973 021AH		6474	USSR	19 APR	17 MAY 73	
1973 021AJ		6475	USSR	19 APR	1 JUN 73	
1973 021AK		6476	USSR	19 APR	19 MAY 73	
1973 021AL		6477	USSR	19 APR	16 MAY 73	
1973 021AM		6478	USSR	19 APR	13 MAY 73	
1973 021AN		6479	USSR	19 APR	27 MAY 73	
1973 021AP		6480	USSR	19 APR	15 MAY 73	
1973 021AQ		6481	USSR	19 APR	18 MAY 73	
1973 021AR		6482	USSR	19 APR	19 MAY 73	
1973 021AS		6483	USSR	19 APR	15 MAY 73	
1973 021AT		6484	USSR	19 APR	8 JUN 73	
1973 021AU		6485	USSR	19 APR	19 MAY 73	
1973 021AV		6486	USSR	19 APR	19 MAY 73	
1973 021AW		6487	USSR	19 APR	18 MAY 73	
1973 021AX		6488	USSR	19 APR	21 MAY 73	
1973 021AY		6489	USSR	19 APR	13 JUN 73	
1973 021AZ		6490	USSR	19 APR	14 AUG 73	
1973 021BA		6491	USSR	19 APR	14 JUL 73	
1973 021BB		6492	USSR	19 APR	30 MAY 73	
1973 021BC		6493	USSR	19 APR	7 JUL 73	
1973 021BD		6494	USSR	19 APR	27 MAY 73	
1973 021BE		6495	USSR	19 APR	25 MAY 73	
1973 021BF		6496	USSR	19 APR	9 JUN 73	
1973 021BG		6497	USSR	19 APR	27 MAY 73	
1973 021BH		6500	USSR	19 APR	27 MAY 73	
1973 021BJ		6501	USSR	19 APR	25 JUN 73	
1973 021BK		6502	USSR	19 APR	2 JAN 74	
1973 021BL		6503	USSR	19 APR	1 JUL 73	
1973 021BM		6504	USSR	19 APR	18 MAY 73	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 021BN		6505	USSR	19 APR	21 MAY 73	
1973 021BP		6506	USSR	19 APR	17 MAY 73	
1973 021BQ		6507	USSR	19 APR	15 MAY 73	
1973 021BR		6508	USSR	19 APR	19 MAY 73	
1973 021BS		6509	USSR	19 APR	18 JUN 73	
1973 021BT		6510	USSR	19 APR	6 JUN 73	
1973 021BU		6511	USSR	19 APR	12 AUG 73	
1973 021BV		6512	USSR	19 APR	26 MAY 73	
1973 021BW		6513	USSR	19 APR	26 MAY 73	
1973 021BX		6514	USSR	19 APR	18 MAY 73	
1973 021BY		6515	USSR	19 APR	28 MAY 73	
1973 021BZ		6516	USSR	19 APR	14 JUN 73	
1973 021CA		6517	USSR	19 APR	26 MAY 73	
1973 021CB		6518	USSR	19 APR	23 MAY 73	
1973 021CC		6519	USSR	19 APR	3 JUL 73	
1973 021CD		6520	USSR	19 APR	25 MAY 73	
1973 021CE		6521	USSR	19 APR	6 JUN 73	
1973 021CF		6522	USSR	19 APR	25 MAY 73	
1973 021CG		6523	USSR	19 APR	22 MAY 73	
1973 021CH		6524	USSR	19 APR	9 JUN 73	
1973 021CJ		6525	USSR	19 APR	16 SEP 73	
1973 021CK		6526	USSR	19 APR	26 MAY 73	
1973 021CL		6527	USSR	19 APR	26 MAY 73	
1973 021CM		6528	USSR	19 APR	26 MAY 73	
1973 021CN		6529	USSR	19 APR	25 MAY 73	
1973 021CP		6530	USSR	19 APR	2 JUN 73	
1973 021CQ		6531	USSR	19 APR	25 JUN 73	
1973 021CR		6532	USSR	19 APR	17 MAY 73	
1973 021CS		6533	USSR	19 APR	22 MAY 73	
1973 021CT		6534	USSR	19 APR	26 MAY 73	
1973 021CU		6535	USSR	19 APR	22 MAY 73	
1973 021CV		6536	USSR	19 APR	30 JUN 73	
1973 021CW		6537	USSR	19 APR	22 MAY 73	
1973 021CX		6538	USSR	19 APR	25 MAY 73	
1973 021CY		6539	USSR	19 APR	24 MAY 73	
1973 021CZ		6540	USSR	19 APR	31 DEC 73	
1973 021DA		6541	USSR	19 APR	27 MAY 73	
1973 021DB		6542	USSR	19 APR	7 MAY 73	
1973 021DC		6543	USSR	19 APR	7 MAY 73	
1973 021DD		6544	USSR	19 APR	7 MAY 73	
1973 021DE		6545	USSR	19 APR	7 MAY 73	
1973 021DF		6546	USSR	19 APR	7 MAY 73	
1973 021DG		6547	USSR	19 APR	7 MAY 73	
1973 021DH		6548	USSR	19 APR	7 MAY 73	
1973 021DJ		6549	USSR	19 APR	7 MAY 73	
1973 021DK		6550	USSR	19 APR	7 MAY 73	
1973 021DL		6551	USSR	19 APR	7 MAY 73	
1973 021DM		6552	USSR	19 APR	7 MAY 73	
1973 021DN		6553	USSR	19 APR	7 MAY 73	
1973 021DP		6554	USSR	19 APR	7 MAY 73	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 021DQ		6555	USSR	19 APR	7 MAY 73	
1973 021DR		6556	USSR	19 APR	7 MAY 73	
1973 021DS		6557	USSR	19 APR	7 MAY 73	
1973 021DT		6558	USSR	19 APR	7 MAY 73	
1973 021DU		6559	USSR	19 APR	7 MAY 73	
1973 021DV		6560	USSR	19 APR	7 MAY 73	
1973 021DW		6561	USSR	19 APR	7 MAY 73	
1973 021DX		6562	USSR	19 APR	7 MAY 73	
1973 021DY		6563	USSR	19 APR	7 MAY 73	
1973 021DZ		6564	USSR	19 APR	7 MAY 73	
1973 021EA		6565	USSR	19 APR	7 MAY 73	
1973 021EB		6566	USSR	19 APR	7 MAY 73	
1973 021EC		6567	USSR	19 APR	7 MAY 73	
1973 021ED		6568	USSR	19 APR	7 MAY 73	
1973 021EE		6569	USSR	19 APR	7 MAY 73	
1973 021EF		6570	USSR	19 APR	7 MAY 73	
1973 021EG		6571	USSR	19 APR	7 MAY 73	
1973 021EH		6572	USSR	19 APR	7 MAY 73	
1973 021EJ		6573	USSR	19 APR	7 MAY 73	
1973 021EK		6574	USSR	19 APR	7 MAY 73	
1973 021EL		6575	USSR	19 APR	7 MAY 73	
1973 021EM		6576	USSR	19 APR	7 MAY 73	
1973 021EN		6577	USSR	19 APR	7 MAY 73	
1973 021EP		6578	USSR	19 APR	7 MAY 73	
1973 021EQ		6579	USSR	19 APR	7 MAY 73	
1973 021ER		6580	USSR	19 APR	7 MAY 73	
1973 021ES		6581	USSR	19 APR	7 MAY 73	
1973 021ET		6582	USSR	19 APR	7 MAY 73	
1973 021EU		6583	USSR	19 APR	7 MAY 73	
1973 021EV		6584	USSR	19 APR	7 MAY 73	
1973 021EW		6585	USSR	19 APR	7 MAY 73	
1973 021EX		6586	USSR	19 APR	7 MAY 73	
1973 021EY		6587	USSR	19 APR	7 MAY 73	
1973 021EZ		6588	USSR	19 APR	7 MAY 73	
1973 021FA		6589	USSR	19 APR	7 MAY 73	
1973 021FB		6590	USSR	19 APR	7 MAY 73	
1973 021FC		6591	USSR	19 APR	7 MAY 73	
1973 021FD		6592	USSR	19 APR	7 MAY 73	
1973 021FE		6593	USSR	19 APR	7 MAY 73	
1973 021FF		6594	USSR	19 APR	7 MAY 73	
1973 021FG		6595	USSR	19 APR	7 MAY 73	
1973 021FH		6596	USSR	19 APR	7 MAY 73	
1973 021FJ		6597	USSR	19 APR	7 MAY 73	
1973 021FK		6598	USSR	19 APR	7 MAY 73	
1973 021FL		6599	USSR	19 APR	7 MAY 73	
1973 021FM		6600	USSR	19 APR	7 MAY 73	
1973 021FN		6601	USSR	19 APR	7 MAY 73	
1973 021FP		6602	USSR	19 APR	7 MAY 73	
1973 021FQ		6603	USSR	19 APR	7 MAY 73	
1973 021FR		6604	USSR	19 APR	7 MAY 73	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 021FS		6605	USSR	19 APR	7 MAY 73	
1973 021FT		6606	USSR	19 APR	7 MAY 73	
1973 021FU		6607	USSR	19 APR	7 MAY 73	
1973 021FV		6608	USSR	19 APR	7 MAY 73	
1973 021FW		6609	USSR	19 APR	7 MAY 73	
1973 021FX		6610	USSR	19 APR	7 MAY 73	
1973 021FY		6611	USSR	19 APR	7 MAY 73	
1973 021FZ		6612	USSR	19 APR	7 MAY 73	
1973 021GA		6613	USSR	19 APR	7 MAY 73	
1973 021GB		6614	USSR	19 APR	7 MAY 73	
1973 021GC		6615	USSR	19 APR	7 MAY 73	
1973 021GD		6616	USSR	19 APR	7 MAY 73	
1973 021GE		6617	USSR	19 APR	7 MAY 73	
1973 021GF		6618	USSR	19 APR	7 MAY 73	
1973 021GG		6619	USSR	19 APR	7 MAY 73	
1973 021GH		6620	USSR	19 APR	7 MAY 73	
1973 021GJ		6621	USSR	19 APR	7 MAY 73	
1973 021GK		6622	USSR	19 APR	7 MAY 73	
1973 021GL		6623	USSR	19 APR	7 MAY 73	
1973 021GM		6624	USSR	19 APR	7 MAY 73	
1973 021GN		6625	USSR	19 APR	7 MAY 73	
1973 021GP		6626	USSR	19 APR	7 MAY 73	
1973 021GQ		6627	USSR	19 APR	7 MAY 73	
1973 021GR		6628	USSR	19 APR	7 MAY 73	
1973 021GS		6629	USSR	19 APR	7 MAY 73	
1973 021GT		6669	USSR	19 APR	23 SEP 73	
1973 021GU		6670	USSR	19 APR	26 JUN 73	
1973 021GV		6671	USSR	1. APR	23 AUG 73	
1973 021GW		6672	USSR	19 APR	25 JUN 73	
1973 021GX		6673	USSR	19 APR	19 JUN 73	
1973 021GY		6692	USSR	19 APR	15 JUN 73	
1973 021GZ		6693	USSR	19 APR	24 JUN 73	
1973 021HA		6737	USSR	19 APR	2 SEP 73	
1973 021HB		6738	USSR	19 APR	14 OCT 73	
1973 021HC		6739	USSR	19 APR	2 SEP 73	
1973 021HD		6740	USSR	19 APR	20 SEP 73	
1973 021HE		6785	USSR	19 APR	18 NOV 73	
1973 022A	INTERCOSMOS 9	6433	USSR	19 APR	15 OCT 73	
1973 022A	COPERNICUS 500	62023				
1973 022B		6435	USSR	19 APR	17 OCT 73	
1973 023B		6438	US	20 APR	18 OCT 75	
1973 024A	COSMOS 555	6440	USSR	25 APR	7 MAY 73	
1973 024B		6441	USSR	25 APR	26 APR 73	
1973 024C		6444	USSR	25 APR	6 MAY 73	
1973 024D		6445	USSR	25 APR	9 MAY 73	
1973 025A	COSMOS 556	6446	USSR	5 MAY	14 MAY 73	
1973 025B		6447	USSR	5 MAY	8 MAY 73	
1973 025C		6630	USSR	5 MAY	24 MAY 73	
1973 025D		6631	USSR	5 MAY	15 MAY 73	
1973 025E		6632	USSR	5 MAY	17 MAY 73	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 026A	COSMOS 557	6498	USSR	11 MAY	22 MAY 73	
1973 026B		6499	USSR	11 MAY	17 MAY 73	
1973 027A	SKYLAB 1	6633	US	14 MAY	11 JUL 79	
1973 027B		6634	US	14 MAY	11 JAN 75	AW*
1973 027C		6635	US	14 MAY	10 SEP 73	
1973 027D		6636	US	14 MAY	25 JUN 73	
1973 027E		6637	US	14 MAY	5 AUG 75	
1973 027F		6638	US	14 MAY	3 APR 75	
1973 027G		6639	US	14 MAY	4 OCT 73	
1973 027H		6641	US	14 MAY	1 NOV 76	
1973 027J		6642	US	14 MAY	19 JAN 74	
1973 027K		6643	US	14 MAY	10 FEB 75	
1973 027L		6644	US	14 MAY	1 NOV 73	
1973 027M		6651	US	14 MAY	12 JUN 75	
1973 027N		6704	US	14 MAY	13 APR 74	
1973 027P		6705	US	14 MAY	24 SEP 73	
1973 027Q		6729	US	14 MAY	16 OCT 73	
1973 027R		6730	US	14 MAY	14 SEP 73	
1973 027S		6733	US	14 MAY	23 OCT 74	
1973 027T		6735	US	14 MAY	20 AUG 75	
1973 027U		6734	US	14 MAY	15 FEB 74	
1973 027V		6774	US	14 MAY	20 SEP 73	
1973 027W		6780	US	14 MAY	12 DEC 74	
1973 027X		6781	US	14 MAY	8 NOV 74	
1973 027Y		6782	US	14 MAY	17 JUL 74	
1973 027Z		6786	US	14 MAY	16 JAN 75	
1973 028A		6640	US	16 MAY	13 JUN 73	
1973 029A	COSMOS 558	6645	USSR	17 MAY	22 DEC 73	
1973 029B		6646	USSR	17 MAY	10 SEP 73	
1973 030A	COSMOS 559	6647	USSR	18 MAY	23 MAY 73	
1973 030B		6648	USSR	18 MAY	28 MAY 73	
1973 030C		6649	USSR	18 MAY	29 MAY 73	
1973 030D		6650	USSR	18 MAY	12 JUN 73	
1973 031A	COSMOS 560	6652	USSR	23 MAY	5 JUN 73	
1973 031B		6653	USSR	23 MAY	1 JUN 73	
1973 031C		6654	USSR	23 MAY	1 JUN 73	
1973 031D		6663	USSR	23 MAY	12 JUN 73	
1973 031E		6664	USSR	23 MAY	6 JUN 73	
1973 032A	SKYLAB 2	6655	US	25 MAY	22 JUN 73	F*
1973 032B		6656	US	25 MAY	25 MAY 73	
1973 033A	COSMOS 561	6657	USSR	25 MAY	6 JUN 73	
1973 033B		6658	USSR	25 MAY	2 JUN 73	
1973 033C		6661	USSR	25 MAY	7 JUN 73	
1973 033D		6662	USSR	25 MAY	20 JUN 73	
1973 035A	COSMOS 562	6665	USSR	5 JUN	7 JAN 74	
1973 035B		6666	USSR	5 JUN	29 SEP 73	
1973 036A	COSMOS 563	6667	USSR	6 JUN	18 JUN 73	
1973 036B		6668	USSR	6 JUN	13 JUN 73	
1973 036C		6674	USSR	6 JUN	15 JUN 73	
1973 036D		6703	USSR	6 JUN	25 JUN 73	

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INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 036E		6706	USSR	6 JUN	23 JUN 73	
1973 038A	COSMOS 572	6684	USSR	10 JUN	23 JUN 73	
1973 038B		6685	USSR	10 JUN	16 JUN 73	
1973 038C		6711	USSR	10 JUN	26 JUN 73	
1973 038D		6712	USSR	10 JUN	23 JUN 73	
1973 039B		6687	US	10 JUN	1 JUL 78	
1973 039C		6688	US	10 JUN	29 JAN 74	
1973 039E		6690	US	10 JUN	19 SEP 73	
1973 039H		6773	US	10 JUN	27 SEP 73	
1973 041A	COSMOS 573	6694	USSR	15 JUN	17 JUN 73	
1973 041B		6695	USSR	15 JUN	21 JUN 73	
1973 041C		6702	USSR	15 JUN	21 JUN 73	
1973 043A	COSMOS 575	6709	USSR	21 JUN	3 JUL 73	
1973 043B		6710	USSR	21 JUN	27 JUN 73	
1973 044A	COSMOS 576	6713	USSR	27 JUN	9 JUL 73	
1973 044B		6714	USSR	27 JUN	7 JUL 73	
1973 044C		6715	USSR	27 JUN	30 JUN 73	
1973 044D		6716	USSR	27 JUN	30 JUN 73	
1973 044E		6717	USSR	27 JUN	29 JUN 73	
1973 044F		6719	USSR	27 JUN	11 JUL 73	
1973 044G		6720	USSR	27 JUN	11 JUL 73	
1973 044H		6721	USSR	27 JUN	14 JUL 73	
1973 045A	MOLNIYA 2-6	6722	USSR	11 JUL	5 AUG 78	
1973 045B		6723	USSR	11 JUL	22 AUG 73	
1973 045C		6724	USSR	11 JUL	3 AUG 73	
1973 045D		6741	USSR	11 JUL	19 SEP 78	
1973 046A		6727	US	13 JUL	12 OCT 73	
1973 046B		6728	US	13 JUL	15 JUL 73	
1973 047B		6743	USSR	21 JUL	23 JUL 73	
1973 047C		6744	USSR	21 JUL	26 JUL 73	
1973 048A	COSMOS 577	6745	USSR	25 JUL	7 AUG 73	
1973 048B		6753	USSR	25 JUL	1 AUG 73	
1973 048C		6770	USSR	25 JUL	7 AUG 73	
1973 048D		6772	USSR	25 JUL	12 AUG 73	
1973 048E		6775	USSR	25 JUL	9 AUG 73	
1973 049B		6755	USSR	25 JUL	27 JUL 73	
1973 049C		6756	USSR	25 JUL	27 JUL 73	
1973 050A	SKYLAB 3	6757	US	28 JUL	25 SEP 73	F*
1973 050B		6758	US	28 JUL	28 JUL 73	
1973 051A	COSMOS 578	6759	USSR	1 AUG	13 AUG 73	
1973 051B		6760	USSR	1 AUG	9 AUG 73	
1973 051C		6761	USSR	1 AUG	5 AUG 73	
1973 051D		6762	USSR	1 AUG	2 AUG 73	
1973 051E		6763	USSR	1 AUG	2 AUG 73	
1973 052B		6769	USSR	5 AUG	7 AUG 73	
1973 052C		6771	USSR	5 AUG	7 AUG 73	
1973 052D	CAPSULE	7223	USSR	5 AUG	12 MAR 74	AR*
1973 053B		6777	USSR	9 AUG	11 AUG 73	
1973 053C		6778	USSR	9 AUG	11 AUG 73	
1973 055A	COSMOS 579	6789	USSR	21 AUG	3 SEP 73	

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INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 055B		6790	USSR	21 AUG	28 AUG 73	
1973 055C		6795	USSR	21 AUG	25 AUG 73	
1973 055D		6813	USSR	21 AUG	5 SEP 73	
1973 055E		6814	USSR	21 AUG	4 SEP 73	
1973 057A	COSMOS 580	6793	USSR	22 AUG	1 APR 74	
1973 057B		6794	USSR	22 AUG	30 NOV 73	
1973 059A	COSMOS 581	6798	USSR	24 AUG	6 SEP 73	
1973 059B		6799	USSR	24 AUG	31 AUG 73	
1973 059C		6801	USSR	24 AUG	25 AUG 73	
1973 059D		6816	USSR	24 AUG	6 SEP 73	
1973 059E		6817	USSR	24 AUG	9 SEP 73	
1973 060A	COSMOS 582	6802	USSR	28 AUG	5 SEP 80	
1973 060B		6803	USSR	28 AUG	1 JAN 81	
1973 060C		6804	USSR	28 AUG	20 JUN 82	
1973 060D		6998	USSR	28 AUG	5 MAR 75	
1973 060E		6999	USSR	28 AUG	7 NOV 74	
1973 061A	MOLNIYA 1-24	6805	USSR	30 AUG	5 DEC 79	
1973 061B		6806	USSR	30 AUG	1 OCT 73	
1973 061C		6807	USSR	30 AUG	8 OCT 73	
1973 061D		6808	USSR	30 AUG	6 SEP 73	
1973 061E		6812	USSR	30 AUG	7 SEP 73	
1973 061F		6815	USSR	30 AUG	5 DEC 79	
1973 062A	COSMOS 583	6809	USSR	30 AUG	12 SEP 73	
1973 062B		6810	USSR	30 AUG	6 SEP 73	
1973 062C		6811	USSR	30 AUG	3 SEP 73	
1973 063A	COSMOS 584	6818	USSR	6 SEP	20 SEP 73	
1973 063B		6819	USSR	6 SEP	17 SEP 73	
1973 063C		6820	USSR	6 SEP	9 SEP 73	
1973 063D		6821	USSR	6 SEP	7 SEP 73	
1973 063E		6830	USSR	6 SEP	28 SEP 73	
1973 063F		6831	USSR	6 SEP	25 SEP 73	
1973 063G		6835	USSR	6 SEP	25 SEP 73	
1973 064C		6827	USSR	8 SEP	12 DEC 73	
1973 066A	COSMOS 587	6832	USSR	21 SEP	4 OCT 73	
1973 066B		6833	USSR	21 SEP	28 SEP 73	
1973 066C		6834	USSR	21 SEP	23 SEP 73	
1973 066D		6854	USSR	21 SEP	8 OCT 73	
1973 066E		6855	USSR	21 SEP	4 OCT 73	
1973 067A	SOYUZ 12	6836	USSR	27 SEP	29 SEP 73	E*
1973 067B		6838	USSR	27 SEP	29 SEP 73	
1973 067C		6839	USSR	27 SEP	21 JAN 74	
1973 067D		6840	USSR	27 SEP	3 NOV 73	
1973 068A		6837	US	27 SEP	29 OCT 73	
1973 070A	COSMOS 596	6856	USSR	3 OCT	9 OCT 73	
1973 070B		6857	USSR	3 OCT	9 OCT 73	
1973 070C		6861	USSR	3 OCT	17 OCT 73	
1973 071A	COSMOS 597	6858	USSR	6 OCT	12 OCT 73	
1973 071B		6859	USSR	6 OCT	14 OCT 73	
1973 071C		6860	USSR	6 OCT	8 OCT 73	
1973 071D		6865	USSR	6 OCT	16 OCT 73	

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INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 071E		6866	USSR	6 OCT	18 OCT 73	
1973 072A	COSMOS 598	6862	USSR	10 OCT	16 OCT 73	
1973 072B		6863	USSR	10 OCT	21 OCT 73	
1973 072C		6864	USSR	10 OCT	11 OCT 73	
1973 072D		6871	USSR	10 OCT	20 OCT 73	
1973 072E		6872	USSR	10 OCT	18 OCT 73	
1973 073A	COSMOS 599	6867	USSR	15 OCT	28 OCT 73	
1973 073B		6868	USSR	15 OCT	21 OCT 73	
1973 073C		6869	USSR	15 OCT	24 OCT 73	
1973 073D		6870	USSR	15 OCT	24 OCT 73	
1973 074A	COSMOS 600	6873	USSR	16 OCT	23 OCT 73	
1973 074B		6874	USSR	16 OCT	28 OCT 73	
1973 074C		6887	USSR	16 OCT	24 OCT 73	
1973 074D		6888	USSR	16 OCT	28 OCT 73	
1973 074E		6899	USSR	16 OCT	29 OCT 73	
1973 075A	COSMOS 601	6875	USSR	16 OCT	15 AUG 74	
1973 075B		6876	USSR	16 OCT	6 NOV 73	AX*
1973 075C		6880	USSR	16 OCT	28 MAR 74	
1973 075D		6881	USSR	16 OCT	4 DEC 73	
1973 075E		6882	USSR	16 OCT	7 FEB 74	
1973 075F		6883	USSR	16 OCT	4 DEC 73	
1973 075G		6884	USSR	16 OCT	21 FEB 74	
1973 075H		6889	USSR	16 OCT	4 FEB 74	
1973 075J		6890	USSR	16 OCT	4 DEC 73	
1973 075K		6891	USSR	16 OCT	1 MAR 74	
1973 075L		6892	USSR	16 OCT	4 DEC 73	
1973 075M		6897	USSR	16 OCT	18 JAN 74	
1973 075N		6922	USSR	16 OCT	19 NOV 73	
1973 075P		6923	USSR	16 OCT	4 DEC 73	
1973 076A	MOLNIYA 2-7	6877	USSR	19 OCT	8 JUL 83	
1973 076B		6878	USSR	19 OCT	3 DEC 73	
1973 076C		6879	USSR	19 OCT	18 DEC 73	
1973 076D		6898	USSR	19 OCT	22 JUN 83	
1973 077A	COSMOS 602	6885	USSR	20 OCT	29 OCT 73	
1973 077B		6886	USSR	20 OCT	31 OCT 73	
1973 077C		6905	USSR	20 OCT	31 OCT 73	
1973 077D		6906	USSR	20 OCT	1 NOV 73	
1973 078B		6894	US	26 OCT	29 OCT 73	
1973 078E		6902	US	26 OCT	27 OCT 73	
1973 079A	COSMOS 603	6900	USSR	27 OCT	9 NOV 73	
1973 079B		6901	USSR	27 OCT	9 NOV 73	
1973 079C		6903	USSR	27 OCT	29 OCT 73	
1973 079D		6904	USSR	27 OCT	29 OCT 73	
1973 079E		6924	USSR	27 OCT	10 NOV 73	
1973 079F		6925	USSR	27 OCT	13 NOV 73	
1973 082A	INTERCOSMOS 10	6911	USSR	30 OCT	1 JUL 77	
1973 082B		6912	USSR	30 OCT	8 OCT 77	
1973 082C		6915	USSR	30 OCT	7 DEC 73	
1973 083A	COSMOS 605	6913	USSR	31 OCT	22 NOV 73	
1973 083B		6914	USSR	31 OCT	28 NOV 73	

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INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 083C		6947	USSR	31 OCT	16 JAN 74	
1973 083D		6948	USSR	31 OCT	5 DEC 73	
1973 083E		6949	USSR	31 OCT	9 JAN 74	
1973 083F		6956	USSR	31 OCT	30 DEC 73	
1973 084B		6917	USSR	2 NOV	6 JAN 74	
1973 084C		6918	USSR	2 NOV	29 JAN 74	
1973 086BN		7070	US	6 NOV	4 NOV 81	
1973 086CJ		7090	US	6 NOV	27 JAN 82	
1973 086DX		7159	US	6 NOV	13 MAY 81	
1973 086FF		7197	US	6 NOV	9 JUN 80	
1973 086FH		7199	US	6 NOV	17 JUL 74	
1973 086FK		7201	US	6 NOV	17 NOV 79	
1973 086FN		7204	US	6 NOV	13 DEC 77	
1973 086FP		7205	US	6 NOV	14 DEC 76	
1973 086FQ		7206	US	6 NOV	6 OCT 74	
1973 086FR		7207	US	6 NOV	13 MAY 74	
1973 086FS		7208	US	6 NOV	22 DEC 78	
1973 086FY		9700	US	6 NOV	25 OCT 79	
1973 087A	COSMOS 607	6926	USSR	10 NOV	22 NOV 73	
1973 087B		6927	USSR	10 NOV	23 NOV 73	
1973 087C		6930	USSR	10 NOV	15 NOV 73	
1973 087D		6945	USSR	10 NOV	28 NOV 73	
1973 087E		6946	USSR	10 NOV	23 NOV 73	
1973 088A		6928	US	10 NOV	13 MAR 74	
1973 088B		6929	US	10 NOV	13 NOV 73	
1973 088C		6931	US	10 NOV	26 DEC 78	
1973 089A	MOLNIYA 1-25	6932	USSR	14 NOV	26 MAY 79	
1973 089B		6933	USSR	14 NOV	2 JAN 74	
1973 089C		6934	USSR	14 NOV	26 NOV 73	
1973 089D		6935	USSR	14 NOV	26 JAN 74	
1973 089E		6940	USSR	14 NOV	20 AUG 79	
1973 090A	SKYLAB 4	6936	US	16 NOV	8 FEB 74	F*
1973 090B		6937	US	16 NOV	16 NOV 73	
1973 091A	COSMOS 608	6941	USSR	20 NOV	10 JUL 74	
1973 091B		6942	USSR	20 NOV	23 MAR 74	
1973 092A	COSMOS 609	6943	USSR	21 NOV	4 DEC 73	
1973 092B		6944	USSR	21 NOV	4 DEC 73	
1973 092C		6963	USSR	21 NOV	6 DEC 73	
1973 092D		6964	USSR	21 NOV	5 DEC 73	
1973 093A	COSMOS 610	6950	USSR	27 NOV	15 SEP 80	
1973 093B		6951	USSR	27 NOV	6 NOV 80	
1973 093C		6962	USSR	27 NOV	29 JUN 75	
1973 094A	COSMOS 611	6952	USSR	28 NOV	19 JUN 74	
1973 094B		6955	USSR	28 NOV	26 MAR 74	
1973 095A	COSMOS 612	6953	USSR	28 NOV	11 DEC 73	
1973 095B		6954	USSR	28 NOV	12 DEC 73	
1973 095C		6968	USSR	28 NOV	16 DEC 73	
1973 095D		6969	USSR	28 NOV	12 DEC 73	
1973 095E		6970	USSR	28 NOV	11 DEC 73	
1973 096A	COSMOS 613	6957	USSR	30 NOV	29 JAN 74	

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INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 096B		6960	USSR	30 NOV	4 DEC 73	
1973 096C		7103	USSR	30 NOV	9 MAR 74	
1973 097B		6959	USSR	30 NOV	30 DEC 73	
1973 097C		6961	USSR	30 NOV	31 DEC 73	
1973 099A	COSMOS 615	6971	USSR	13 DEC	17 DEC 75	
1973 099B		6972	USSR	13 DEC	24 JAN 75	
1973 100C		6975	US	13 DEC	17 DEC 73	
1973 101A	EXPLORER 51	6977	US	16 DEC	12 DEC 78	
1973 101B		6978	US	16 DEC	14 AUG 74	
1973 102A	COSMOS 616	6979	USSR	17 DEC	28 DEC 73	
1973 102B		6980	USSR	17 DEC	31 DEC 73	
1973 102C		6981	USSR	17 DEC	14 JAN 74	
1973 102D		6994	USSR	17 DEC	2 JAN 74	
1973 102E		7006	USSR	17 DEC	2 JAN 74	
1973 102F		7007	USSR	17 DEC	2 JAN 74	
1973 103A	SOYUZ 13	6982	USSR	18 DEC	26 DEC 73	E*
1973 103B		6983	USSR	18 DEC	22 DEC 73	
1973 103C		6984	USSR	18 DEC	14 JAN 74	
1973 105A	COSMOS 625	6995	USSR	21 DEC	3 JAN 74	
1973 105B		6996	USSR	21 DEC	1 JAN 74	
1973 105C		6997	USSR	21 DEC	22 DEC 73	
1973 105D		7010	USSR	21 DEC	2 JAN 74	
1973 105E		7011	USSR	21 DEC	6 JAN 74	
1973 106A	MOLNIYA 2-8	7000	USSR	25 DEC	24 NOV 84	
1973 106B		7001	USSR	25 DEC	24 JAN 74	
1973 106C		7002	USSR	25 DEC	17 JAN 74	
1973 108B		7113	USSR	27 DEC	17 FEB 74	
1973 108C		7114	USSR	27 DEC	23 FEB 74	
1973 108D		7115	USSR	27 DEC	22 MAR 74	
1973 108E		7116	USSR	27 DEC	16 FEB 74	
1974 LAUNCHES						
1974 002A	SKYNET 2A	7096	UK	19 JAN	25 JAN 74	
1974 002B		7097	US	19 JAN	20 JAN 74	
1974 002C		7098	US	19 JAN	23 JAN 74	
1974 002D		7099	US	19 JAN	23 JAN 74	
1974 003A	COSMOS 629	7100	USSR	24 JAN	5 FEB 74	
1974 003B		7101	USSR	24 JAN	1 FEB 74	
1974 003C		7102	USSR	24 JAN	26 JAN 74	
1974 003D		7108	USSR	24 JAN	9 FEB 74	
1974 004A	COSMOS 630	7104	USSR	30 JAN	13 FEB 74	
1974 004B		7105	USSR	30 JAN	14 FEB 74	
1974 004C		7106	USSR	30 JAN	6 FEB 74	
1974 004D		7107	USSR	30 JAN	5 FEB 74	
1974 004E		7119	USSR	30 JAN	14 FEB 74	
1974 004F		7120	USSR	30 JAN	16 FEB 74	
1974 005A	COSMOS 631	7109	USSR	6 FEB	3 OCT 80	
1974 005B		7110	USSR	6 FEB	7 DEC 80	
1974 005C		7111	USSR	6 FEB	2 JUL 78	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)						
1974 005D		7112	USSR	6 FEB	11 OCT 75	
1974 005E		7257	USSR	6 FEB	11 JAN 78	
1974 006A	COSMOS 632	7117	USSR	12 FEB	26 FEB 74	
1974 006B		7118	USSR	12 FEB	17 FEB 74	
1974 006C		7171	USSR	12 FEB	27 FEB 74	
1974 006D		7172	USSR	12 FEB	2 MAR 74	
1974 006E		7189	USSR	12 FEB	10 MAR 74	
1974 007A		7121	US	13 FEB	17 MAR 74	
1974 008A	TANSEI 2	7122	JAPAN	16 FEB	22 JAN 83	
1974 008B		7123	JAPAN	16 FEB	21 JAN 83	
1974 009A	SAN MARCO 4	7154	ITALY	18 FEB	4 MAY 76	
1974 009B		7157	US	18 FEB	9 JUN 74	
1974 010A	COSMOS 633	7187	USSR	27 FEB	4 OCT 74	
1974 010B		7188	USSR	27 FEB	11 JUN 74	
1974 012A	COSMOS 634	7211	USSR	5 MAR	9 OCT 74	
1974 012B		7212	USSR	5 MAR	17 JUN 74	
1974 012C		7290	USSR	5 MAR	10 SEP 74	
1974 013C		7215	UK	9 MAR	5 APR 84	
1974 013D		7214	UK	9 MAR	4 MAY 83	
1974 014A	COSMOS 635	7216	USSR	14 MAR	26 MAR 74	
1974 014B		7217	USSR	14 MAR	25 MAR 74	
1974 014C		7220	USSR	14 MAR	23 MAR 74	
1974 014D		7221	USSR	14 MAR	20 MAR 74	
1974 014E		7222	USSR	14 MAR	7 APR 74	
1974 016A	COSMOS 636	7225	USSR	20 MAR	3 APR 74	
1974 016B		7226	USSR	20 MAR	24 MAR 74	
1974 016C		7227	USSR	20 MAR	25 MAR 74	
1974 016D		7232	USSR	20 MAR	4 APR 74	
1974 016E		7233	USSR	20 MAR	3 APR 74	
1974 016F		7239	USSR	20 MAR	5 APR 74	
1974 017B		7230	USSR	26 MAR	27 MAR 74	
1974 017C		7231	USSR	26 MAR	28 MAR 74	
1974 017D		7248	USSR	26 MAR	16 NOV 76	
1974 017E		7249	USSR	26 MAR	16 NOV 76	
1974 018A	COSMOS 638	7234	USSR	3 APR	13 APR 74	
1974 018B		7235	USSR	3 APR	9 APR 74	
1974 018C		7236	USSR	3 APR	6 APR 74	
1974 018D		7237	USSR	3 APR	5 APR 74	
1974 018E		7238	USSR	3 APR	6 APR 74	
1974 019A	COSMOS 639	7240	USSR	4 APR	15 APR 74	
1974 019B		7241	USSR	4 APR	7 APR 74	
1974 019C		7253	USSR	4 APR	16 APR 74	
1974 019D		7254	USSR	4 APR	17 APR 74	
1974 019E		7255	USSR	4 APR	16 APR 74	
1974 019F		7256	USSR	4 APR	16 APR 74	
1974 020A		7242	US	10 APR	28 JUL 74	
1974 020C		7247	US	10 APR	22 FEB 80	
1974 020D		7243	US	10 APR	12 APR 74	
1974 021A	COSMOS 640	7245	USSR	11 APR	23 APR 74	
1974 021B		7246	USSR	11 APR	14 APR 74	

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INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)						
1974 022B		7251	US	13 APR	25 MAY 74	
1974 022C		7252	US	13 APR	25 NOV 74	
1974 023A	MOLNIYA 1-27	7260	USSR	20 APR	17 NOV 83	
1974 023B		7261	USSR	20 APR	20 JUN 74	
1974 023C		7262	USSR	20 APR	4 JUL 74	
1974 023D		7263	USSR	20 APR	4 MAY 74	
1974 023E		7264	USSR	20 APR	21 DEC 83	
1974 026B		7277	USSR	26 APR	21 MAY 74	
1974 026C		7278	USSR	26 APR	17 MAY 74	
1974 026D		7279	USSR	26 APR	28 APR 74	
1974 027A	COSMOS 649	7280	USSR	29 APR	11 MAY 74	
1974 027B		7282	USSR	29 APR	3 MAY 74	
1974 027C		7283	USSR	29 APR	30 APR 74	
1974 027D		7286	USSR	29 APR	16 MAY 74	
1974 027E		7287	USSR	29 APR	11 MAY 74	
1974 027F		7288	USSR	29 APR	10 MAY 74	
1974 027G		7289	USSR	29 APR	13 MAY 74	
1974 029B		7387	USSR	15 MAY	30 JUL 74	
1974 029C		7388	USSR	15 MAY	5 SEP 74	
1974 030A	COSMOS 652	7292	USSR	15 MAY	23 MAY 74	
1974 030B		7294	USSR	15 MAY	19 MAY 74	
1974 030C		7308	USSR	15 MAY	27 MAY 74	
1974 030D		7309	USSR	15 MAY	25 MAY 74	
1974 030E		7311	USSR	15 MAY	5 JUN 74	
1974 030F		7310	USSR	15 MAY	5 JUN 74	
1974 030G		7312	USSR	15 MAY	25 MAY 74	
1974 031A	COSMOS 653	7293	USSR	15 MAY	27 MAY 74	
1974 031B		7295	USSR	15 MAY	20 MAY 74	
1974 031C		7296	USSR	15 MAY	28 MAY 74	
1974 032B		7395	USSR	17 MAY	4 AUG 74	
1974 032C		7396	USSR	17 MAY	30 AUG 74	
1974 032D		7397	USSR	17 MAY	7 SEP 74	
1974 032E		7398	USSR	17 MAY	30 AUG 74	
1974 033B		7300	US	17 MAY	20 MAY 74	
1974 033C		7301	US	17 MAY	21 MAY 74	
1974 033D		7303	US	17 MAY	12 NOV 74	
1974 033E		7304	US	17 MAY	18 MAY 74	
1974 034A	INTERCOSMOS 11	7299	USSR	17 MAY	6 SEP 79	
1974 034B		7302	USSR	17 MAY	7 JAN 80	
1974 034C		7305	USSR	17 MAY	29 DEC 74	
1974 035A	COSMOS 655	7306	USSR	21 MAY	19 NOV 80	
1974 035B		7307	USSR	21 MAY	5 OCT 80	
1974 035C		7515	USSR	21 MAY	10 JUL 81	
1974 035D		7516	USSR	21 MAY	22 APR 81	
1974 035E		7517	USSR	21 MAY	31 OCT 79	
1974 035F		7518	USSR	21 MAY	21 OCT 79	
1974 035G		7519	USSR	21 MAY	8 SEP 79	
1974 035H		8778	USSR	21 MAY	11 JAN 78	
1974 036A	COSMOS 656	7313	USSR	27 MAY	29 MAY 74	
1974 036B		7314	USSR	27 MAY	2 JUN 74	

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INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)						
1974 037B		7316	USSR	29 MAY	2 JUN 74	
1974 037C		7322	USSR	29 MAY	2 JUN 74	
1974 037D		7323	USSR	29 MAY	2 JUN 74	
1974 038A	COSMOS 657	7317	USSR	30 MAY	13 JUN 74	
1974 038B		7320	USSR	30 MAY	2 JUN 74	
1974 038C		7321	USSR	30 MAY	2 JUN 74	
1974 038D		7332	USSR	30 MAY	18 JUN 74	
1974 038E		7333	USSR	30 MAY	14 JUN 74	
1974 039B		7319	US	30 MAY	4 JUN 74	
1974 040A	EXPLORER 52	7325	US	3 JUN	28 APR 78	
1974 040B		7326	US	3 JUN	11 OCT 77	
1974 040C		7327	US	3 JUN	10 NOV 74	
1974 040D		7331	US	3 JUN	21 NOV 74	
1974 041A	COSMOS 658	7328	USSR	6 JUN	18 JUN 74	
1974 041B		7329	USSR	6 JUN	12 JUN 74	
1974 042A		7330	US	6 JUN	23 JUL 74	
1974 043A	COSMOS 659	7334	USSR	13 JUN	26 JUN 74	
1974 043B		7335	USSR	13 JUN	18 JUN 74	
1974 043C		7336	USSR	13 JUN	16 JUN 74	
1974 043D		7346	USSR	13 JUN	27 JUN 74	
1974 045A	COSMOS 661	7339	USSR	21 JUN	27 AUG 80	
1974 045B		7340	USSR	21 JUN	16 OCT 80	
1974 045C		7341	USSR	21 JUN	2 FEB 78	
1974 046A	SALYUT 3	7342	USSR	24 JUN	24 JAN 75	
1974 046B		7343	USSR	24 JUN	3 JUL 74	
1974 046C		7344	USSR	24 JUN	27 JUN 74	
1974 046D		7345	USSR	24 JUN	28 JUN 74	
1974 047A	COSMOS 662	7347	USSR	26 JUN	28 AUG 76	
1974 047B		7348	USSR	26 JUN	26 OCT 75	
1974 049A	COSMOS 664	7351	USSR	29 JUN	11 JUL 74	
1974 049B		7355	USSR	29 JUN	9 JUL 74	
1974 049C		7356	USSR	29 JUN	8 JUL 74	
1974 049D		7357	USSR	29 JUN	1 JUL 74	
1974 049E		7358	USSR	29 JUN	8 JUL 74	
1974 049F		7359	USSR	29 JUN	8 JUL 74	
1974 049G		7365	USSR	29 JUN	13 JUL 74	
1974 049H		7366	USSR	29 JUN	13 JUL 74	
1974 050B		7353	USSR	29 JUN	1 SEP 74	
1974 050D		7360	USSR	29 JUN	13 AUG 74	
1974 051A	SOYUZ 14	7361	USSR	3 JUL	19 JUL 74	E*
1974 051B		7362	USSR	3 JUL	5 JUL 74	
1974 051C		7374	USSR	3 JUL	17 JUL 74	
1974 053A	COSMOS 666	7367	USSR	12 JUL	25 JUL 74	
1974 053B		7368	USSR	12 JUL	18 JUL 74	
1974 053C		7379	USSR	12 JUL	25 JUL 74	
1974 053D		7381	USSR	12 JUL	30 JUL 74	
1974 054B		7370	US	14 JUL	26 NOV 80	
1974 055A	AEROS 2	7371	FRG	16 JUL	25 SEP 75	
1974 055B		7375	US	16 JUL	9 OCT 74	
1974 055C		7380	FRG	16 JUL	15 OCT 74	

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INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)						
1974 056B		7377	USSR	23 JUL	26 AUG 74	
1974 056C		7378	USSR	23 JUL	28 AUG 74	
1974 057A	COSMOS 667	7383	USSR	25 JUL	7 AUG 74	
1974 057B		7384	USSR	25 JUL	30 JUL 74	
1974 057C		7407	USSR	25 JUL	10 AUG 74	
1974 057D		7408	USSR	25 JUL	18 AUG 74	
1974 058A	COSMOS 668	7385	USSR	25 JUL	21 FEB 75	
1974 058B		7386	USSR	25 JUL	15 NOV 74	
1974 059A	COSMOS 669	7389	USSR	26 JUL	8 AUG 74	
1974 059B		7390	USSR	26 JUL	30 JUL 74	
1974 059C		7391	USSR	26 JUL	29 JUL 74	
1974 059D		7401	USSR	26 JUL	7 AUG 74	
1974 059E		7402	USSR	26 JUL	8 AUG 74	
1974 059F		7403	USSR	26 JUL	7 AUG 74	
1974 059G		7404	USSR	26 JUL	11 AUG 74	
1974 060B		7393	USSR	29 JUL	1 AUG 74	
1974 060C		7394	USSR	29 JUL	31 JUL 74	
1974 060D		7399	USSR	29 JUL	26 JAN 79	
1974 060E		7400	USSR	29 JUL	11 DEC 76	
1974 061A	COSMOS 670	7405	USSR	6 AUG	9 AUG 74	
1974 061B		7406	USSR	6 AUG	13 AUG 74	
1974 062A	COSMOS 671	7409	USSR	7 AUG	20 AUG 74	
1974 062B		7410	USSR	7 AUG	14 AUG 74	
1974 062C		7419	USSR	7 AUG	9 SEP 74	
1974 062D		7420	USSR	7 AUG	23 AUG 74	
1974 064A	COSMOS 672	7413	USSR	12 AUG	18 AUG 74	
1974 064B		7414	USSR	12 AUG	14 AUG 74	
1974 064C		7415	USSR	12 AUG	16 AUG 74	
1974 065A		7416	US	14 AUG	29 SEP 74	
1974 067A	SOYUZ 15	7421	USSR	26 AUG	28 AUG 74	E*
1974 067B		7422	USSR	26 AUG	28 AUG 74	
1974 068A	COSMOS 674	7423	USSR	29 AUG	7 SEP 74	
1974 068B		7425	USSR	29 AUG	4 SEP 74	
1974 068C		7431	USSR	29 AUG	14 SEP 74	
1974 068D		7432	USSR	29 AUG	10 SEP 74	
1974 070A	ANS	7427	NETH	30 AUG	14 JUN 77	
1974 070B		7428	US	30 AUG	19 NOV 75	
1974 070C		7429	NETH	30 AUG	20 JUL 75	
1974 070D		7430	NETH	30 AUG	4 OCT 74	
1974 070E		7694	NETH	30 AUG	10 APR 75	
1974 073A	COSMOS 685	7445	USSR	20 SEP	2 OCT 74	
1974 073B		7444	USSR	20 SEP	26 SEP 74	
1974 073C		7446	USSR	20 SEP	25 SEP 74	
1974 074A	COSMOS 686	7447	USSR	26 SEP	1 MAY 75	
1974 074B		7448	USSR	26 SEP	29 OCT 74	AY*
1974 074C		7449	USSR	26 SEP	19 MAR 75	
1974 074D		7450	USSR	26 SEP	1 JAN 76	
1974 074E		7451	USSR	26 SEP	13 NOV 74	
1974 074F		7452	USSR	26 SEP	18 MAR 75	
1974 074G		7453	USSR	26 SEP	5 JUL 75	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)						
1974 074H		7454	USSR	26 SEP	3 NOV 74	
1974 074J		7455	USSR	26 SEP	3 NOV 74	
1974 074K		7456	USSR	26 SEP	3 NOV 74	
1974 074L		7457	USSR	26 SEP	17 NOV 74	
1974 074M		7458	USSR	26 SEP	26 NOV 74	
1974 074N		7459	USSR	26 SEP	5 MAY 75	
1974 074P		7460	USSR	26 SEP	20 OCT 74	
1974 074Q		7461	USSR	26 SEP	18 OCT 74	
1974 074R		7462	USSR	26 SEP	23 OCT 74	
1974 074S		7463	USSR	26 SEP	10 NOV 74	
1974 074T		7464	USSR	26 SEP	1 NOV 74	
1974 074U		7465	USSR	26 SEP	21 FEB 75	
1974 074V		7526	USSR	26 SEP	27 NOV 74	
1974 075B		7467	US	10 OCT	23 DEC 78	
1974 076A	COSMOS 687	7469	USSR	11 OCT	5 FEB 78	
1974 076B		7470	USSR	11 OCT	4 JAN 77	
1974 077A	ARIEL 5	7471	UK	15 OCT	14 MAR 80	
1974 077B		7472	US	15 OCT	13 MAY 79	
1974 078A	COSMOS 688	7473	USSR	18 OCT	30 OCT 74	
1974 078B		7474	USSR	18 OCT	24 OCT 74	
1974 078C		7475	USSR	18 OCT	23 OCT 74	
1974 078D		7496	USSR	18 OCT	31 OCT 74	
1974 080A	COSMOS 690	7478	USSR	22 OCT	12 NOV 74	
1974 080B		7479	USSR	22 OCT	10 NOV 74	
1974 080C		7521	USSR	22 OCT	21 NOV 74	
1974 080D		7522	USSR	22 OCT	3 DEC 74	
1974 080E		7523	USSR	22 OCT	14 DEC 74	
1974 080F		7524	USSR	22 OCT	16 NOV 74	
1974 080G		7527	USSR	22 OCT	23 NOV 74	
1974 080H		7528	USSR	22 OCT	24 NOV 74	
1974 081B		7481	USSR	24 OCT	31 DEC 74	
1974 081C		7482	USSR	24 OCT	3 JAN 75	
1974 081E		7486	USSR	24 OCT	4 NOV 74	
1974 082A	COSMOS 691	7483	USSR	25 OCT	6 NOV 74	
1974 082B		7484	USSR	25 OCT	29 OCT 74	
1974 082C		7511	USSR	25 OCT	10 NOV 74	
1974 082D		7512	USSR	25 OCT	6 NOV 74	
1974 084A	LUNA 23	7491	USSR	28 OCT	6 NOV 74	R*
1974 084B		7492	USSR	28 OCT	1 NOV 74	
1974 084C		7494	USSR	28 OCT	1 NOV 74	
1974 085A		7495	US	29 OCT	19 MAR 75	
1974 085B		7498	US	29 OCT	23 JAN 80	
1974 085C		7499	US	29 OCT	26 MAY 75	
1974 085D		7497	US	29 OCT	31 OCT 74	
1974 086A	INTERCOSMOS 12	7500	USSR	31 OCT	11 JUL 75	
1974 086B		7501	USSR	31 OCT	23 JUL 75	
1974 086C		7507	USSR	31 OCT	11 NOV 74	
1974 086D		7508	USSR	31 OCT	11 NOV 74	
1974 087A	COSMOS 692	7502	USSR	1 NOV	13 NOV 74	
1974 087B		7503	USSR	1 NOV	6 NOV 74	

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INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)						
1974 087C		7504	USSR	1 NOV	5 NOV 74	
1974 087D		7505	USSR	1 NOV	5 NOV 74	
1974 087E		7506	USSR	1 NOV	5 NOV 74	
1974 087F		7520	USSR	1 NOV	23 NOV 74	
1974 087G		7525	USSR	1 NOV	18 NOV 74	
1974 088A	COSMOS 693	7509	USSR	4 NOV	16 NOV 74	
1974 088B		7510	USSR	4 NOV	9 NOV 74	
1974 088C		7513	USSR	4 NOV	6 NOV 74	
1974 088D		7514	USSR	4 NOV	16 NOV 74	
1974 088E		7534	USSR	4 NOV	17 NOV 74	
1974 089AM		8171	US	15 NOV	8 MAY 82	
1974 089BC		8186	US	15 NOV	27 DEC 78	
1974 089BV		8312	US	15 NOV	3 JUN 82	
1974 089CU		8557	US	15 NOV	10 JUN 82	
1974 089CV		8558	US	15 NOV	28 JAN 78	
1974 089CW		8559	US	15 NOV	10 JUN 82	
1974 089DP		8787	US	15 NOV	24 AUG 77	
1974 089DT		8909	US	15 NOV	15 NOV 81	
1974 090A	COSMOS 694	7533	USSR	16 NOV	29 NOV 74	
1974 090B		7535	USSR	16 NOV	25 NOV 74	
1974 090C		7536	USSR	16 NOV	17 NOV 74	
1974 090D		7537	USSR	16 NOV	18 NOV 74	
1974 090E		7555	USSR	16 NOV	3 DEC 74	
1974 090F		7556	USSR	16 NOV	30 NOV 74	
1974 090G		7557	USSR	16 NOV	3 DEC 74	
1974 091A	COSMOS 695	7538	USSR	20 NOV	15 JUL 75	
1974 091B		7539	USSR	20 NOV	15 MAR 75	
1974 092B		7541	USSR	21 NOV	27 JAN 75	
1974 092C		7542	USSR	21 NOV	11 JAN 75	
1974 092D		7543	USSR	21 NOV	10 JAN 75	
1974 094B		7548	US	23 NOV	7 JAN 75	
1974 094C		7549	US	23 NOV	26 DEC 74	
1974 094E		9530	US	23 NOV	4 NOV 76	
1974 095A	COSMOS 696	7551	USSR	27 NOV	9 DEC 74	
1974 095B		7552	USSR	27 NOV	5 DEC 74	
1974 095C		7553	USSR	27 NOV	29 NOV 74	
1974 095D		7554	USSR	27 NOV	3 DEC 74	
1974 096A	SOYUZ 16	7561	USSR	2 DEC	8 DEC 74	E*
1974 096B		7562	USSR	2 DEC	7 DEC 74	
1974 096C		7563	USSR	2 DEC	8 DEC 74	
1974 096D		7564	USSR	2 DEC	3 DEC 74	
1974 096E		7565	USSR	2 DEC	8 DEC 74	
1974 096F		7566	USSR	2 DEC	8 DEC 74	
1974 098A	COSMOS 697	7571	USSR	13 DEC	25 DEC 74	
1974 098B		7572	USSR	13 DEC	21 DEC 74	
1974 098C		7573	USSR	13 DEC	16 DEC 74	
1974 098D		7589	USSR	13 DEC	26 DEC 74	
1974 098E		7590	USSR	13 DEC	26 DEC 74	
1974 100A	COSMOS 698	7576	USSR	18 DEC	9 DEC 80	
1974 100B		7577	USSR	18 DEC	8 NOV 80	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)						
1974 100C		7582	USSR	18 DEC	6 MAR 77	
1974 100D		7636	USSR	18 DEC	23 SEP 81	
1974 100E		7695	USSR	18 DEC	29 SEP 77	
1974 100F		7722	USSR	18 DEC	20 OCT 79	
1974 100G		7723	USSR	18 DEC	14 APR 80	
1974 100H		7724	USSR	18 DEC	2 MAR 78	
1974 100J		9793	USSR	18 DEC	1 AUG 77	
1974 101B		7579	US	19 DEC	19 APR 78	
1974 101C		7580	US	19 DEC	24 APR 77	
1974 101D		7581	US	19 DEC	2 JAN 77	
1974 101E		8739	US	19 DEC	8 SEP 77	
1974 101F		8740	US	19 DEC	25 DEC 77	
1974 102B		7584	USSR	21 DEC	12 MAR 75	
1974 102C		7585	USSR	21 DEC	8 MAR 75	
1974 103A	COSMOS 699	7587	USSR	24 DEC	16 OCT 77	
1974 103B		7588	USSR	24 DEC	25 DEC 74	AZ*
1974 103C		7748	USSR	24 DEC	8 JAN 77	
1974 103D		7749	USSR	24 DEC	12 APR 76	
1974 103E		7750	USSR	24 DEC	27 FEB 77	
1974 103F		7754	USSR	24 DEC	1 JUN 75	
1974 103G		7755	USSR	24 DEC	20 JAN 76	
1974 103H		7756	USSR	24 DEC	23 DEC 76	
1974 103J		7757	USSR	24 DEC	18 OCT 78	
1974 103K		7758	USSR	24 DEC	16 AUG 75	
1974 103L		7759	USSR	24 DEC	6 JUN 76	
1974 103M		7760	USSR	24 DEC	30 OCT 75	
1974 103N		7762	USSR	24 DEC	29 JUL 75	
1974 103P		7763	USSR	24 DEC	12 APR 76	
1974 103Q		7764	USSR	24 DEC	26 AUG 75	
1974 103R		7765	USSR	24 DEC	23 SEP 77	
1974 103S		7766	USSR	24 DEC	25 JUL 75	
1974 103T		7767	USSR	24 DEC	9 JUL 75	
1974 103U		7783	USSR	24 DEC	6 JUL 75	
1974 103V		7784	USSR	24 DEC	10 OCT 75	
1974 103W		7793	USSR	24 DEC	9 JUL 75	
1974 103X		7814	USSR	24 DEC	9 SEP 75	
1974 103Y		7999	USSR	24 DEC	6 DEC 78	
1974 103Z		8046	USSR	24 DEC	1 NOV 75	
1974 103AA		8047	USSR	24 DEC	26 FEB 78	
1974 103AB		8048	USSR	24 DEC	22 MAR 76	
1974 103AC		8049	USSR	24 DEC	10 JUN 78	
1974 103AD		8050	USSR	24 DEC	12 NOV 75	
1974 103AE		8051	USSR	24 DEC	6 NOV 76	
1974 103AF		8052	USSR	24 DEC	4 AUG 75	
1974 103AG		8056	USSR	24 DEC	10 MAR 76	
1974 103AH		8057	USSR	24 DEC	21 NOV 78	
1974 103AJ		8100	USSR	24 DEC	20 SEP 75	
1974 103AK		8101	USSR	24 DEC	13 MAR 76	
1974 103AL		8102	USSR	24 DEC	12 MAR 78	
1974 103AM		8103	USSR	24 DEC	30 SEP 75	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)						
1974 103AN		8104	USSR	24 DEC	29 JAN 76	
1974 103AP		8105	USSR	24 DEC	3 MAY 79	
1974 103AQ		8106	USSR	24 DEC	12 APR 76	
1974 103AR		8109	USSR	24 DEC	24 SEP 75	
1974 103AS		8112	USSR	24 DEC	4 MAR 78	
1974 103AT		8113	USSR	24 DEC	15 JUL 78	
1974 103AU		8114	USSR	24 DEC	9 MAY 76	
1974 103AV		8115	USSR	24 DEC	28 JAN 76	
1974 103AW		8116	USSR	24 DEC	23 SEP 77	
1974 103AX		8117	USSR	24 DEC	14 APR 76	
1974 103AY		8118	USSR	24 DEC	19 JUN 78	
1974 103AZ		8119	USSR	24 DEC	1 NOV 75	
1974 103BA		8120	USSR	24 DEC	10 APR 78	
1974 103BB		8121	USSR	24 DEC	28 DEC 77	
1974 103BC		8122	USSR	24 DEC	28 JUN 78	
1974 104A	SALYUT 4	7591	USSR	26 DEC	2 FEB 77	
1974 104B		7592	USSR	26 DEC	1 JAN 75	BA*
1974 104C		7595	USSR	26 DEC	28 DEC 74	
1974 104D		7598	USSR	26 DEC	22 JAN 75	
1974 104E		7608	USSR	26 DEC	29 APR 75	
1974 104F		7628	USSR	26 DEC	8 APR 75	
1974 104G		7630	USSR	26 DEC	15 APR 75	
1974 104H		7634	USSR	26 DEC	15 APR 75	
1974 104J		7656	USSR	26 DEC	18 APR 75	
1974 104K		7657	USSR	26 DEC	26 APR 75	
1974 104L		7658	USSR	26 DEC	7 MAY 75	
1974 104M		7661	USSR	26 DEC	13 APR 75	
1974 104N		7662	USSR	26 DEC	10 SEP 75	
1974 104P		7704	USSR	26 DEC	16 JUN 75	
1974 104Q		7995	USSR	26 DEC	16 SEP 75	
1974 104R		7996	USSR	26 DEC	18 SEP 75	
1974 104S		7997	USSR	26 DEC	25 MAR 76	
1974 104T		7998	USSR	26 DEC	15 SEP 75	
1974 104U		8055	USSR	26 DEC	27 OCT 75	
1974 106A	COSMOS 701	7596	USSR	27 DEC	9 JAN 75	
1974 106B		7597	USSR	27 DEC	7 JAN 75	
1974 106C		7599	USSR	27 DEC	2 JAN 75	
1974 106D		7600	USSR	27 DEC	7 JAN 75	
1974 106E		7601	USSR	27 DEC	11 JAN 75	
1974 106F		7602	USSR	27 DEC	15 JAN 75	
1974 106G		7603	USSR	27 DEC	15 JAN 75	
1975 LAUNCHES						
1975 001A	SOYUZ 17	7604	USSR	10 JAN	9 FEB 75	E*
1975 001B		7605	USSR	10 JAN	14 JAN 75	
1975 001C		7610	USSR	10 JAN	25 MAR 75	
1975 001D		7613	USSR	10 JAN	12 APR 75	
1975 001E		7614	USSR	10 JAN	8 MAY 75	
1975 001F		7622	USSR	10 JAN	24 OCT 75	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 001G		7633	USSR	10 JAN	15 APR 75	
1975 001H		7635	USSR	10 JAN	23 MAR 75	
1975 001J		7640	USSR	10 JAN	27 OCT 75	
1975 002A	COSMOS 702	7606	USSR	17 JAN	29 JAN 75	
1975 002B		7607	USSR	17 JAN	29 JAN 75	
1975 002C		7609	USSR	17 JAN	21 JAN 75	
1975 003A	COSMOS 703	7611	USSR	21 JAN	20 NOV 75	
1975 003B		7612	USSR	21 JAN	22 AUG 75	
1975 004D		8676	US	22 JAN	5 NOV 79	
1975 004E		8677	US	22 JAN	14 SEP 79	
1975 004H		8680	US	22 JAN	10 FEB 79	
1975 004K		8683	US	22 JAN	5 APR 77	
1975 004L		8684	US	22 JAN	28 DEC 79	
1975 004N		8687	US	22 JAN	18 FEB 77	
1975 004P		8691	US	22 JAN	22 MAY 82	
1975 004R		8693	US	22 JAN	29 AUG 81	
1975 004S		8936	US	22 JAN	20 NOV 78	
1975 004T		8937	US	22 JAN	9 DEC 79	
1975 004U		8938	US	22 JAN	18 APR 78	
1975 004V		8939	US	22 JAN	5 MAY 81	
1975 004X		8941	US	22 JAN	18 APR 78	
1975 004Y		8942	US	22 JAN	26 SEP 81	
1975 004Z		8943	US	22 JAN	17 JUL 82	
1975 004AA		8944	US	22 JAN	18 FEB 80	
1975 004AB		8945	US	22 JAN	25 APR 80	
1975 004AC		8946	US	22 JAN	15 JUL 78	
1975 004AD		8947	US	22 JAN	8 APR 81	
1975 004AE		8948	US	22 JAN	10 AUG 81	
1975 004AF		8949	US	22 JAN	6 APR 79	
1975 004AG		8950	US	22 JAN	19 DEC 81	
1975 004AJ		8952	US	22 JAN	29 MAR 79	
1975 004AM		8955	US	22 JAN	23 JUN 77	
1975 004AP		8957	US	22 JAN	4 NOV 79	
1975 004AT		8961	US	22 JAN	24 APR 79	
1975 004AU		8962	US	22 JAN	29 DEC 79	
1975 004AX		8965	US	22 JAN	3 NOV 78	
1975 004AY		8966	US	22 JAN	9 NOV 78	
1975 004BD		8971	US	22 JAN	23 OCT 79	
1975 004BE		8972	US	22 JAN	5 NOV 79	
1975 004BF		8973	US	22 JAN	13 JAN 80	
1975 004BG		8974	US	22 JAN	31 JAN 77	
1975 004BH		8975	US	22 JAN	6 SEP 79	
1975 004BJ		8976	US	22 JAN	21 NOV 79	
1975 004BK		8977	US	22 JAN	28 JUL 81	
1975 004BQ		8982	US	22 JAN	23 JUN 80	
1975 004BR		8983	US	22 JAN	11 SEP 79	
1975 004BS		8984	US	22 JAN	23 NOV 79	
1975 004BT		8985	US	22 JAN	30 MAY 79	
1975 004BU		8986	US	22 JAN	17 OCT 79	
1975 004BV		8987	US	22 JAN	16 DEC 79	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 004BW		8988	US	22 JAN	25 APR 79	
1975 004BX		8989	US	22 JAN	16 AUG 78	
1975 004BY		8990	US	22 JAN	27 FEB 82	
1975 004CA		8992	US	22 JAN	23 APR 81	
1975 004CC		8994	US	22 JAN	16 JUN 79	
1975 004CG		8998	US	22 JAN	24 MAR 79	
1975 004CH		8999	US	22 JAN	8 MAY 82	
1975 004CK		9001	US	22 JAN	20 FEB 80	
1975 004CL		9002	US	22 JAN	26 DEC 80	
1975 004CN		9004	US	22 JAN	3 JUL 77	
1975 004CP		9005	US	22 JAN	26 DEC 80	
1975 004CQ		9026	US	22 JAN	9 NOV 78	
1975 004CR		9027	US	22 JAN	4 FEB 78	
1975 004CS		9028	US	22 JAN	1 MAY 78	
1975 004CT		9029	US	22 JAN	22 OCT 80	
1975 004CU		9030	US	22 JAN	11 JAN 80	
1975 004CV		9031	US	22 JAN	14 DEC 79	
1975 004CW		9032	US	22 JAN	4 FEB 77	
1975 004CX		9033	US	22 JAN	21 SEP 79	
1975 004CY		9034	US	22 JAN	9 APR 81	
1975 004CZ		9035	US	22 JAN	12 OCT 78	
1975 004DA		9036	US	22 JAN	3 FEB 80	
1975 004DB		9037	US	22 JAN	3 OCT 79	
1975 004DC		9038	US	22 JAN	31 JAN 77	
1975 004DD		9039	US	22 JAN	6 OCT 78	
1975 004DF		9041	US	22 JAN	13 SEP 80	
1975 004DH		9282	US	22 JAN	10 DEC 79	
1975 004DJ		9283	US	22 JAN	2 DEC 79	
1975 004DK		9284	US	22 JAN	4 OCT 79	
1975 004DL		9285	US	22 JAN	31 JAN 77	
1975 004DM		9286	US	22 JAN	25 APR 77	
1975 004DN		9287	US	22 JAN	20 APR 79	
1975 004DP		9288	US	22 JAN	1 OCT 77	
1975 004DQ		9289	US	22 JAN	22 JAN 78	
1975 004DR		9290	US	22 JAN	27 MAY 77	
1975 004DS		9291	US	22 JAN	30 JUN 80	
1975 004DV		9294	US	22 JAN	26 FEB 79	
1975 004DW		9295	US	22 JAN	27 JAN 79	
1975 004DX		9296	US	22 JAN	18 MAY 81	
1975 004DY		9297	US	22 JAN	31 JAN 77	
1975 004DZ		9298	US	22 JAN	9 FEB 77	
1975 004EA		9299	US	22 JAN	30 JUN 78	
1975 004EB		9300	US	22 JAN	19 NOV 82	
1975 004EC		9301	US	22 JAN	4 JAN 79	
1975 004ED		9302	US	22 JAN	15 APR 79	
1975 004EE		9303	US	22 JAN	6 APR 80	
1975 004EF		9304	US	22 JAN	5 SEP 80	
1975 004EH		9306	US	22 JAN	21 DEC 80	
1975 004EJ		9307	US	22 JAN	21 OCT 79	
1975 004EK		9308	US	22 JAN	9 MAY 81	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 004EL		9309	US	22 JAN	11 AUG 81	
1975 004EM		9310	US	22 JAN	7 JUL 77	
1975 004EN		9311	US	22 JAN	16 JUN 79	
1975 004EP		9312	US	22 JAN	8 MAY 78	
1975 004ER		9314	US	22 JAN	1 DEC 82	
1975 004ES		9315	US	22 JAN	13 FEB 79	
1975 004ET		9316	US	22 JAN	28 DEC 77	
1975 004EU		9317	US	22 JAN	21 APR 81	
1975 004EV		9318	US	22 JAN	4 JUN 79	
1975 004EW		9319	US	22 JAN	4 MAY 80	
1975 004EY		9321	US	22 JAN	5 FEB 80	
1975 004EZ		9322	US	22 JAN	12 APR 77	
1975 004FB		9324	US	22 JAN	8 SEP 79	
1975 004FC		9325	US	22 JAN	11 OCT 80	
1975 004FD		9326	US	22 JAN	17 APR 78	
1975 004FE		9327	US	22 JAN	23 MAR 80	
1975 004FF		9543	US	22 JAN	28 NOV 77	
1975 004FG		9544	US	22 JAN	12 MAY 79	
1975 004FJ		9546	US	22 JAN	7 OCT 77	
1975 004FK		9547	US	22 JAN	19 JAN 80	
1975 004FL		9548	US	22 JAN	1 FEB 79	
1975 004FM		9549	US	22 JAN	8 JUL 78	
1975 004FN		9550	US	22 JAN	14 APR 79	
1975 004FQ		9571	US	22 JAN	31 DEC 78	
1975 004FR		9616	US	22 JAN	2 NOV 81	
1975 004FT		9618	US	22 JAN	31 OCT 80	
1975 004FX		9622	US	22 JAN	18 JAN 79	
1975 004FY		9677	US	22 JAN	11 JUN 81	
1975 004FZ		9678	US	22 JAN	14 JUN 79	
1975 004GB		9680	US	22 JAN	17 JUL 79	
1975 004GE		9683	US	22 JAN	19 JUN 81	
1975 004GF		9684	US	22 JAN	20 FEB 79	
1975 004GH		9686	US	22 JAN	16 JUN 79	
1975 004GJ		9687	US	22 JAN	30 NOV 79	
1975 004GK		9688	US	22 JAN	11 SEP 80	
1975 004GM		9690	US	22 JAN	6 JUN 80	
1975 004GN		9691	US	22 JAN	21 JUN 78	
1975 004GP		9705	US	22 JAN	28 APR 78	
1975 004GQ		9706	US	22 JAN	4 DEC 78	
1975 004GR		9707	US	22 JAN	16 NOV 79	
1975 004GS		9708	US	22 JAN	2 MAY 79	
1975 004GT		9709	US	22 JAN	12 MAR 78	
1975 004GW		9712	US	22 JAN	3 JAN 79	
1975 004GX		9713	US	22 JAN	18 JUL 78	
1975 004GY		9714	US	22 JAN	7 JAN 79	
1975 004GZ		9715	US	22 JAN	9 MAY 79	
1975 004HA		9716	US	22 JAN	25 NOV 77	
1975 004HB		9717	US	22 JAN	11 APR 79	
1975 004HD		9949	US	22 JAN	26 OCT 81	
1975 004HE		9950	US	22 JAN	14 JUL 79	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 004HF		10397	US	22 JAN	6 JAN 81	
1975 005A	COSMOS 704	7617	USSR	23 JAN	6 FEB 75	
1975 005B		7618	USSR	23 JAN	3 FEB 75	
1975 005C		7619	USSR	23 JAN	26 JAN 75	
1975 005D		7620	USSR	23 JAN	26 JAN 75	
1975 005E		7621	USSR	23 JAN	26 JAN 75	
1975 005F		7631	USSR	23 JAN	7 FEB 75	
1975 005G		7632	USSR	23 JAN	6 FEB 75	
1975 005H		7644	USSR	23 JAN	8 FEB 75	
1975 005J		7649	USSR	23 JAN	9 FEB 75	
1975 006A	COSMOS 705	7623	USSR	28 JAN	18 NOV 75	
1975 006B		7624	USSR	28 JAN	25 JUN 75	
1975 007B		7626	USSR	30 JAN	4 APR 75	
1975 007C		7627	USSR	30 JAN	2 MAR 75	
1975 008A	COSMOS 707	7637	USSR	5 FEB	7 SEP 80	
1975 008B		7638	USSR	5 FEB	27 AUG 80	
1975 008C		7639	USSR	5 FEB	14 DEC 76	
1975 008D		7645	USSR	5 FEB	17 APR 77	
1975 008E		7777	USSR	5 FEB	29 APR 77	
1975 009B		7642	USSR	6 FEB	25 APR 75	
1975 009C		7643	USSR	6 FEB	23 APR 75	
1975 011B		7650	US	6 FEB	6 APR 82	
1975 011C		7651	US	6 FEB	16 FEB 75	
1975 011D		7652	US	6 FEB	16 FEB 75	
1975 011E		7660	US	6 FEB	21 FEB 75	
1975 013A	COSMOS 709	7664	USSR	12 FEB	25 FEB 75	
1975 013B		7666	USSR	12 FEB	17 FEB 75	
1975 013C		7667	USSR	12 FEB	15 FEB 75	
1975 013D		7668	USSR	12 FEB	15 FEB 75	
1975 013E		7669	USSR	12 FEB	15 FEB 75	
1975 013F		7672	USSR	12 FEB	1 MAR 75	
1975 013G		7673	USSR	12 FEB	26 FEB 75	
1975 014A	SRATS (TAIYO)	7671	JAPAN	24 FEB	29 JUN 80	
1975 014B		7674	JAPAN	24 FEB	17 MAY 80	
1975 015A	COSMOS 710	7675	USSR	26 FEB	12 MAR 75	
1975 015B		7676	USSR	26 FEB	3 MAR 75	
1975 015C		7677	USSR	26 FEB	3 MAR 75	
1975 015D		7689	USSR	26 FEB	12 MAR 75	
1975 015E		7690	USSR	26 FEB	16 MAR 75	
1975 018A	COSMOS 719	7691	USSR	12 MAR	25 MAR 75	
1975 018B		7692	USSR	12 MAR	16 MAR 75	
1975 018C		7693	USSR	12 MAR	15 MAR 75	
1975 018D		7701	USSR	12 MAR	26 MAR 75	
1975 018E		7702	USSR	12 MAR	30 MAR 75	
1975 018F		7703	USSR	12 MAR	28 MAR 75	
1975 019A	COSMOS 720	7696	USSR	21 MAR	1 APR 75	
1975 019B		7697	USSR	21 MAR	30 MAR 75	
1975 019C		7698	USSR	21 MAR	22 MAR 75	
1975 019D		7699	USSR	21 MAR	25 MAR 75	
1975 019E		7700	USSR	21 MAR	22 MAR 75	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 019F		7717	USSR	21 MAR	5 APR 75	
1975 019G		7719	USSR	21 MAR	4 APR 75	
1975 019H		7725	USSR	21 MAR	10 APR 75	
1975 019J		7726	USSR	21 MAR	9 APR 75	
1975 020A	COSMOS 721	7705	USSR	26 MAR	7 APR 75	
1975 020B		7706	USSR	26 MAR	29 MAR 75	
1975 020C		7707	USSR	26 MAR	29 MAR 75	
1975 020D		7708	USSR	26 MAR	31 MAR 75	
1975 020E		7720	USSR	26 MAR	7 APR 75	
1975 020F		7721	USSR	26 MAR	10 APR 75	
1975 021A	COSMOS 722	7709	USSR	27 MAR	9 APR 75	
1975 021B		7711	USSR	27 MAR	9 APR 75	
1975 021C		7712	USSR	27 MAR	29 MAR 75	
1975 021D		7716	USSR	27 MAR	2 APR 75	
1975 021E		7728	USSR	27 MAR	10 APR 75	
1975 021F		7729	USSR	27 MAR	12 APR 75	
1975 021G		7732	USSR	27 MAR	14 APR 75	
1975 021H		7733	USSR	27 MAR	10 APR 75	
1975 022A	INTERCOSMOS 13	7710	USSR	27 MAR	2 SEP 80	
1975 022B		7713	USSR	27 MAR	21 APR 80	
1975 024B		7795	USSR	2 APR	21 MAY 75	
1975 024C		7796	USSR	2 APR	19 MAY 75	
1975 024D		7797	USSR	2 APR	15 JUL 75	
1975 024E		7798	USSR	2 APR	24 MAY 75	
1975 024F		7799	USSR	2 APR	25 MAY 75	
1975 025B		7922	USSR	7 APR	7 AUG 75	
1975 025C		7923	USSR	7 APR	17 JUN 75	
1975 026A	COSMOS 725	7730	USSR	8 APR	6 JAN 76	
1975 026B		7731	USSR	8 APR	9 SEP 75	
1975 027D		10729	US	9 APR	7 DEC 83	
1975 029B		7739	USSR	14 APR	20 JUN 75	
1975 029C		7740	USSR	14 APR	4 JUN 75	
1975 030A	COSMOS 727	7742	USSR	16 APR	28 APR 75	
1975 030B		7743	USSR	16 APR	21 APR 75	
1975 030C		7744	USSR	16 APR	19 APR 75	
1975 030D		7774	USSR	16 APR	5 MAY 75	
1975 030E		7775	USSR	16 APR	1 MAY 75	
1975 031A	COSMOS 728	7745	USSR	18 APR	29 APR 75	
1975 031B		7746	USSR	18 APR	30 APR 75	
1975 031C		7751	USSR	18 APR	20 APR 75	
1975 031D		7761	USSR	18 APR	22 APR 75	
1975 031E		7776	USSR	18 APR	3 MAY 75	
1975 031F		7778	USSR	18 APR	28 APR 75	
1975 031G		7779	USSR	18 APR	16 MAY 75	
1975 032A		7747	US	18 APR	5 JUN 75	
1975 033C		8058	USSR	19 APR	12 MAR 78	
1975 033D		9839	USSR	19 APR	21 JUN 77	
1975 035A	COSMOS 730	7770	USSR	24 APR	6 MAY 75	
1975 035B		7771	USSR	24 APR	29 APR 75	
1975 035C		7772	USSR	24 APR	1 MAY 75	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 035D		7773	USSR	24 APR	28 APR 75	
1975 035E		7785	USSR	24 APR	7 MAY 75	
1975 035F		7786	USSR	24 APR	6 MAY 75	
1975 035G		7787	USSR	24 APR	24 MAY 75	
1975 036B		7781	USSR	29 APR	29 MAY 75	
1975 036C		7782	USSR	29 APR	3 JUN 75	
1975 037A	EXPLORER 53	7788	US	7 MAY	9 APR 79	
1975 037B		7789	US	7 MAY	9 SEP 79	
1975 038B		7791	US	7 MAY	3 NOV 76	
1975 038C		7792	US	7 MAY	8 MAY 75	
1975 039A	POLLUX	7801	FRANCE	17 MAY	5 AUG 75	
1975 039B	CASTOR	7802	FRANCE	17 MAY	18 FEB 79	
1975 039C		7803	FRANCE	17 MAY	7 AUG 76	
1975 039D		7804	FRANCE	17 MAY	26 SEP 76	
1975 039E		7805	FRANCE	17 MAY	18 JUN 76	
1975 039F		7806	FRANCE	17 MAY	30 SEP 76	
1975 039G		8035	FRANCE	17 MAY	29 JAN 78	
1975 040A		7807	US	20 MAY	26 MAY 75	
1975 040B		7808	US	20 MAY	26 MAY 75	E*
1975 040C		7809	US	20 MAY	21 MAY 75	
1975 041A	COSMOS 731	7810	USSR	21 MAY	2 JUN 75	
1975 041B		7811	USSR	21 MAY	30 MAY 75	
1975 041C		7812	USSR	21 MAY	24 MAY 75	
1975 041D		7813	USSR	21 MAY	26 MAY 75	
1975 041E		7879	USSR	21 MAY	6 JUN 75	
1975 041F		7880	USSR	21 MAY	9 JUN 75	
1975 041G		7881	USSR	21 MAY	11 JUN 75	
1975 041H		7885	USSR	21 MAY	19 JUN 75	
1975 044A	SOYUZ 18	7818	USSR	24 MAY	26 JUL 75	E*
1975 044B		7819	USSR	24 MAY	27 MAY 75	BB*
1975 044C		7911	USSR	24 MAY	15 MAY 76	
1975 044D		7912	USSR	24 MAY	20 SEP 75	
1975 044E		7948	USSR	24 MAY	28 MAR 76	
1975 044F		7949	USSR	24 MAY	17 JUN 75	
1975 044G		7953	USSR	24 MAY	4 OCT 75	
1975 044H		7955	USSR	24 MAY	1 OCT 75	
1975 044J		7956	USSR	24 MAY	24 SEP 75	
1975 044K		7962	USSR	24 MAY	15 SEP 75	
1975 044L		7984	USSR	24 MAY	12 OCT 75	
1975 044M		8019	USSR	24 MAY	7 OCT 75	
1975 044N		8020	USSR	24 MAY	6 MAR 76	
1975 044P		8021	USSR	24 MAY	9 OCT 75	
1975 044Q		8022	USSR	24 MAY	9 OCT 75	
1975 044R		8023	USSR	24 MAY	29 MAR 76	
1975 044S		8024	USSR	24 MAY	12 FEB 76	
1975 044T		8025	USSR	24 MAY	5 OCT 75	
1975 044U		8038	USSR	24 MAY	20 OCT 75	
1975 046A	COSMOS 740	7821	USSR	28 MAY	10 JUN 75	
1975 046B		7829	USSR	28 MAY	3 JUN 75	
1975 046C		7830	USSR	28 MAY	4 JUN 75	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 046D		7920	USSR	28 MAY	18 JUN 75	
1975 046E		7921	USSR	28 MAY	18 JUN 75	
1975 047A	COSMOS 741	7877	USSR	30 MAY	11 JUN 75	
1975 047B		7878	USSR	30 MAY	4 JUN 75	
1975 048A	COSMOS 742	7900	USSR	3 JUN	15 JUN 75	
1975 048B		7901	USSR	3 JUN	11 JUN 75	
1975 048C		7913	USSR	3 JUN	12 JUN 75	
1975 048D		7951	USSR	3 JUN	16 JUN 75	
1975 048E		7952	USSR	3 JUN	15 JUN 75	
1975 049C		7904	USSR	5 JUN	16 JUL 75	
1975 049D		7905	USSR	5 JUN	8 JUL 75	
1975 049E		7906	USSR	5 JUN	16 AUG 75	
1975 050B		7916	USSR	8 JUN	9 JUN 75	
1975 050C		7917	USSR	8 JUN	9 JUN 75	
1975 050D	DESCENT CRAFT	8411	USSR	8 JUN	22 OCT 75	N*
1975 051A		7918	US	8 JUN	5 NOV 75	
1975 051B		7919	US	8 JUN	11 JUN 75	
1975 052C		7965	US	12 JUN	1 JUL 81	
1975 053A	COSMOS 743	7925	USSR	12 JUN	25 JUN 75	
1975 053B		7926	USSR	12 JUN	20 JUN 75	
1975 053C		7927	USSR	12 JUN	18 JUN 75	
1975 053D		7972	USSR	12 JUN	29 JUN 75	
1975 053E		7981	USSR	12 JUN	26 JUN 75	
1975 053F		7987	USSR	12 JUN	26 JUN 75	
1975 054B		7950	USSR	14 JUN	15 JUN 75	
1975 054C		7954	USSR	14 JUN	15 JUN 75	
1975 054D	DESCENT CRAFT	8423	USSR	14 JUN	25 OCT 75	N*
1975 057B		7971	US	21 JUN	9 APR 81	
1975 058A	COSMOS 745	7982	USSR	24 JUN	12 MAR 76	
1975 058B		7983	USSR	24 JUN	14 NOV 75	
1975 059A	COSMOS 746	7985	USSR	25 JUN	8 JUL 75	
1975 059B		7986	USSR	25 JUN	1 JUL 75	
1975 059C		7988	USSR	25 JUN	26 JUN 75	
1975 059D		7989	USSR	25 JUN	26 JUN 75	
1975 059E		8011	USSR	25 JUN	12 JUL 75	
1975 059F		8012	USSR	25 JUN	9 JUL 75	
1975 060A	COSMOS 747	7990	USSR	27 JUN	9 JUL 75	
1975 060B		7991	USSR	27 JUN	3 JUL 75	
1975 060C		7992	USSR	27 JUN	28 JUN 75	
1975 060D		7993	USSR	27 JUN	2 JUL 75	
1975 060E		7994	USSR	27 JUN	29 JUN 75	
1975 060F		8013	USSR	27 JUN	17 JUL 75	
1975 060G		8014	USSR	27 JUN	9 JUL 75	
1975 061A	COSMOS 748	8006	USSR	3 JUL	16 JUL 75	
1975 061B		8007	USSR	3 JUL	9 JUL 75	
1975 061C		8008	USSR	3 JUL	15 JUL 75	
1975 061D		8028	USSR	3 JUL	15 JUL 75	
1975 061E		8029	USSR	3 JUL	16 JUL 75	
1975 061F		8034	USSR	3 JUL	17 JUL 75	
1975 062A	COSMOS 749	8009	USSR	4 JUL	26 SEP 80	

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INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 062B		8010	USSR	4 JUL	26 DEC 80	
1975 062C		8107	USSR	4 JUL	27 AUG 81	
1975 063B		8016	USSR	8 JUL	9 AUG 75	
1975 063C		8017	USSR	8 JUL	9 AUG 75	
1975 065A	SOYUZ 19	8030	USSR	15 JUL	21 JUL 75	BC*
1975 065B		8031	USSR	15 JUL	17 JUL 75	
1975 066A	APOLLO 18	8032	US	15 JUL	24 JUL 75	BC*
1975 066B		8033	US	15 JUL	16 JUL 75	
1975 066C		8042	US	15 JUL	2 AUG 75	
1975 067A	COSMOS 750	8036	USSR	17 JUL	29 SEP 77	
1975 067B		8037	USSR	17 JUL	17 NOV 76	
1975 067C		8045	USSR	17 JUL	28 JUL 76	
1975 068A	COSMOS 751	8040	USSR	23 JUL	4 AUG 75	
1975 068B		8041	USSR	23 JUL	30 JUL 75	
1975 069A	COSMOS 752	8043	USSR	24 JUL	28 FEB 81	
1975 069B		8044	USSR	24 JUL	5 NOV 79	
1975 070A	MAO 3	8053	PRC	26 JUL	14 SEP 75	
1975 070B		8054	PRC	26 JUL	25 AUG 75	
1975 071A	COSMOS 753	8059	USSR	31 JUL	13 AUG 75	
1975 071B		8060	USSR	31 JUL	7 AUG 75	
1975 071C		8061	USSR	31 JUL	1 AUG 75	
1975 071D		8067	USSR	31 JUL	16 AUG 75	
1975 071E		8068	USSR	31 JUL	13 AUG 75	
1975 073A	COSMOS 754	8069	USSR	13 AUG	26 AUG 75	
1975 073B		8070	USSR	13 AUG	25 AUG 75	
1975 073C		8071	USSR	13 AUG	15 AUG 75	
1975 073D		8129	USSR	13 AUG	31 AUG 75	
1975 073E		8130	USSR	13 AUG	27 AUG 75	
1975 073F		8131	USSR	13 AUG	27 AUG 75	
1975 075C	VIKING LANDER 1	9024	US	20 AUG	20 JUL 76	BD*
1975 077D		8135	US	27 AUG	23 SEP 76	
1975 078A	COSMOS 757	8147	USSR	27 AUG	9 SEP 75	
1975 078B		8148	USSR	27 AUG	3 SEP 75	
1975 078C		8149	USSR	27 AUG	2 SEP 75	
1975 078D		8150	USSR	27 AUG	2 SEP 75	
1975 078E		8193	USSR	27 AUG	8 SEP 75	
1975 078F		8194	USSR	27 AUG	11 SEP 75	
1975 079B		8188	USSR	2 SEP	10 NOV 75	
1975 079C		8189	USSR	2 SEP	1 NOV 75	
1975 079D		8190	USSR	2 SEP	12 OCT 75	
1975 080A	COSMOS 758	8191	USSR	5 SEP	25 SEP 75	
1975 080B		8192	USSR	5 SEP	10 SEP 75	BE*
1975 080C		8200	USSR	5 SEP	9 SEP 75	
1975 080D		8201	USSR	5 SEP	9 SEP 75	
1975 080E		8202	USSR	5 SEP	9 SEP 75	
1975 080F		8203	USSR	5 SEP	9 SEP 75	
1975 080G		8204	USSR	5 SEP	9 SEP 75	
1975 080H		8205	USSR	5 SEP	9 SEP 75	
1975 080J		8206	USSR	5 SEP	9 SEP 75	
1975 080K		8207	USSR	5 SEP	9 SEP 75	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 080L		8208	USSR	5 SEP	9 SEP 75	
1975 080M		8209	USSR	5 SEP	9 SEP 75	
1975 080M		8210	USSR	5 SEP	9 SEP 75	
1975 080P		8211	USSR	5 SEP	9 SEP 75	
1975 080Q		8212	USSR	5 SEP	9 SEP 75	
1975 080R		8213	USSR	5 SEP	9 SEP 75	
1975 080S		8214	USSR	5 SEP	9 SEP 75	
1975 080T		8215	USSR	5 SEP	9 SEP 75	
1975 080U		8216	USSR	5 SEP	9 SEP 75	
1975 080V		8217	USSR	5 SEP	9 SEP 75	
1975 080W		8218	USSR	5 SEP	9 SEP 75	
1975 080X		8219	USSR	5 SEP	9 SEP 75	
1975 080Y		8220	USSR	5 SEP	9 SEP 75	
1975 080Z		8221	USSR	5 SEP	9 SEP 75	
1975 080AA		8222	USSR	5 SEP	9 SEP 75	
1975 080AB		8223	USSR	5 SEP	9 SEP 75	
1975 080AC		8224	USSR	5 SEP	9 SEP 75	
1975 080AD		8225	USSR	5 SEP	9 SEP 75	
1975 080AE		8226	USSR	5 SEP	9 SEP 75	
1975 080AF		8227	USSR	5 SEP	9 SEP 75	
1975 080AG		8228	USSR	5 SEP	9 SEP 75	
1975 080AH		8229	USSR	5 SEP	9 SEP 75	
1975 080AJ		8230	USSR	5 SEP	9 SEP 75	
1975 080AK		8231	USSR	5 SEP	9 SEP 75	
1975 080AL	AJRA	8232	USSR	5 SEP	9 SEP 75	
1975 080AM		8233	USSR	5 SEP	9 SEP 75	
1975 080AN		8234	USSR	5 SEP	9 SEP 75	
1975 080AP		8235	USSR	5 SEP	9 SEP 75	
1975 080AQ		8236	USSR	5 SEP	9 SEP 75	
1975 080AR		8237	USSR	5 SEP	9 SEP 75	
1975 080AS		8238	USSR	5 SEP	9 SEP 75	
1975 080AT		8239	USSR	5 SEP	9 SEP 75	
1975 080AU		8240	USSR	5 SEP	9 SEP 75	
1975 080AV		8241	USSR	5 SEP	9 SEP 75	
1975 080AW		8242	USSR	5 SEP	9 SEP 75	
1975 080AX		8243	USSR	5 SEP	9 SEP 75	
1975 080AY		8244	USSR	5 SEP	9 SEP 75	
1975 080AZ		8245	USSR	5 SEP	9 SEP 75	
1975 080BA		8246	USSR	5 SEP	9 SEP 75	
1975 080BB		8247	USSR	5 SEP	9 SEP 75	
1975 080BC		8248	USSR	5 SEP	9 SEP 75	
1975 080BD		8249	USSR	5 SEP	9 SEP 75	
1975 080BE		8250	USSR	5 SEP	9 SEP 75	
1975 080BF		8251	USSR	5 SEP	9 SEP 75	
1975 080BG		8252	USSR	5 SEP	9 SEP 75	
1975 080BH		8253	USSR	5 SEP	9 SEP 75	
1975 080BJ		8254	USSR	5 SEP	9 SEP 75	
1975 080BK		8255	USSR	5 SEP	9 SEP 75	
1975 080BL		8256	USSR	5 SEP	9 SEP 75	
1975 080BM		8257	USSR	5 SEP	9 SEP 75	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 080BN		8258	USSR	5 SEP	9 SEP 75	
1975 080BP		8259	USSR	5 SEP	9 SEP 75	
1975 080BQ		8260	USSR	5 SEP	9 SEP 75	
1975 080BR		8261	USSR	5 SEP	9 SEP 75	
1975 080BS		8262	USSR	5 SEP	9 SEP 75	
1975 080BT		8263	USSR	5 SEP	9 SEP 75	
1975 080BU		8264	USSR	5 SEP	9 SEP 75	
1975 080BV		8265	USSR	5 SEP	9 SEP 75	
1975 080BW		8266	USSR	5 SEP	9 SEP 75	
1975 080BX		8267	USSR	5 SEP	9 SEP 75	
1975 080BY		8268	USSR	5 SEP	9 SEP 75	
1975 080BZ		8269	USSR	5 SEP	9 SEP 75	
1975 080CA		8270	USSR	5 SEP	9 SEP 75	
1975 080CB		8271	USSR	5 SEP	9 SEP 75	
1975 080CC		8273	USSR	5 SEP	17 SEP 75	
1975 080CD		8280	USSR	5 SEP	3 OCT 75	
1975 080CE		8283	USSR	5 SEP	26 SEP 75	
1975 081B		8196	USSR	9 SEP	9 OCT 75	
1975 081C		8198	USSR	9 SEP	18 OCT 75	
1975 083C	VIKING LANDER 2	9438	US	9 SEP	3 SEP 76	BO*
1975 084A	COSMOS 759	8275	USSR	12 SEP	23 SEP 75	
1975 084B		8276	USSR	12 SEP	25 SEP 75	
1975 084C		8277	USSR	12 SEP	14 SEP 75	
1975 084D		8278	USSR	12 SEP	17 SEP 75	
1975 084E		8279	USSR	12 SEP	16 SEP 75	
1975 084F		8324	USSR	12 SEP	26 SEP 75	
1975 084G		8329	USSR	12 SEP	26 SEP 75	
1975 085A	COSMOS 760	8281	USSR	16 SEP	30 SEP 75	
1975 085B		8282	USSR	16 SEP	21 SEP 75	
1975 085C		8284	USSR	16 SEP	18 SEP 75	
1975 085D		8334	USSR	16 SEP	5 OCT 75	
1975 085E		8335	USSR	16 SEP	30 SEP 75	
1975 085F		8347	USSR	16 SEP	1 OCT 75	
1975 088A	COSMOS 769	8322	USSR	23 SEP	5 OCT 75	
1975 088B		8323	USSR	23 SEP	2 OCT 75	
1975 088C		8349	USSR	23 SEP	13 OCT 75	
1975 090A	COSMOS 771	8327	USSR	25 SEP	8 OCT 75	
1975 090B		8328	USSR	25 SEP	29 SEP 75	
1975 090C		8355	USSR	25 SEP	12 OCT 75	
1975 090D		8356	USSR	25 SEP	8 OCT 75	
1975 092A	D2-B	8332	FRANCE	27 SEP	30 SEP 82	
1975 092B		8333	FRANCE	27 SEP	30 MAR 82	
1975 092C		8336	FRANCE	27 SEP	17 OCT 78	
1975 092D		8337	FRANCE	27 SEP	16 MAY 78	
1975 092E		8340	FRANCE	27 SEP	27 OCT 78	
1975 092F		8341	FRANCE	27 SEP	1 JAN 80	
1975 092G		8342	FRANCE	27 SEP	20 NOV 79	
1975 093A	COSMOS 772	8338	USSR	29 SEP	2 OCT 75	
1975 093B		8339	USSR	29 SEP	6 OCT 75	
1975 095A	COSMOS 774	8345	USSR	1 OCT	15 OCT 75	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 095B		8348	USSR	1 OCT	10 OCT 75	
1975 095C		8350	USSR	1 OCT	8 OCT 75	
1975 095D		8351	USSR	1 OCT	8 OCT 75	
1975 095E		8362	USSR	1 OCT	14 OCT 75	
1975 095F		8363	USSR	1 OCT	16 OCT 75	
1975 095G		8365	USSR	1 OCT	14 OCT 75	
1975 096A	EXPLORER 54	8353	US	6 OCT	12 MAR 76	
1975 096B		8354	US	6 OCT	1 APR 76	
1975 097B		8353	USSR	8 OCT	10 OCT 75	
1975 097C		8359	USSR	8 OCT	9 OCT 75	
1975 097D		8414	USSR	8 OCT	1 MAR 78	
1975 098A		8360	US	9 OCT	30 NOV 75	
1975 099B		8364	US	12 OCT	28 MAR 78	
1975 099C		8409	US	12 OCT	12 NOV 78	
1975 099D		8410	US	12 OCT	31 MAY 76	
1975 100B		8367	US	16 OCT	5 JAN 76	
1975 100D		8371	US	16 OCT	11 NOV 75	
1975 100E		8372	US	16 OCT	1 NOV 75	
1975 101A	COSMOS 776	8369	USSR	17 OCT	29 OCT 75	
1975 101B		8370	USSR	17 OCT	23 OCT 75	
1975 101C		8373	USSR	17 OCT	8 NOV 75	
1975 101D		8412	USSR	17 OCT	1 NOV 75	
1975 101E		8413	USSR	17 OCT	31 OCT 75	
1975 102A	COSMOS 777	8416	USSR	29 OCT	3 JUN 76	
1975 102B		8417	USSR	29 OCT	30 OCT 75	BF*
1975 102C		8622	USSR	29 OCT	4 DEC 76	
1975 102D		8623	USSR	29 OCT	13 DEC 76	
1975 102E		8624	USSR	29 OCT	15 NOV 76	
1975 102F		8625	USSR	29 OCT	15 MAR 76	
1975 102G		8626	USSR	29 OCT	8 JAN 77	
1975 102H		8627	USSR	29 OCT	23 FEB 77	
1975 102J		8628	USSR	29 OCT	15 NOV 76	
1975 102K		8629	USSR	29 OCT	15 NOV 76	
1975 102L		8630	USSR	29 OCT	19 AUG 76	
1975 102M		8631	USSR	29 OCT	21 AUG 77	
1975 102N		8632	USSR	29 OCT	20 JUL 77	
1975 102P		8633	USSR	29 OCT	9 DEC 76	
1975 102Q		8634	USSR	29 OCT	4 DEC 76	
1975 102R		8635	USSR	29 OCT	15 NOV 76	
1975 102S		8636	USSR	29 OCT	20 JAN 77	
1975 102T		8637	USSR	29 OCT	4 APR 77	
1975 102U		8638	USSR	29 OCT	14 MAR 76	
1975 102V		8639	USSR	29 OCT	4 DEC 76	
1975 102W		8640	USSR	29 OCT	15 NOV 76	
1975 102X		8641	USSR	29 OCT	30 JUN 77	
1975 102Y		8642	USSR	29 OCT	15 NOV 76	
1975 102Z		8643	USSR	29 OCT	4 DEC 76	
1975 102AA		8644	USSR	29 OCT	8 JAN 77	
1975 102AB		8647	USSR	29 OCT	5 JUN 78	
1975 102AC		8648	USSR	29 OCT	18 APR 79	

DECAYED OBJECTS

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 102AD		8649	USSR	29 OCT	18 JUN 77	
1975 102AE		8650	USSR	29 OCT	27 MAR 76	
1975 102AF		8651	USSR	29 OCT	16 MAR 77	
1975 102AG		8652	USSR	29 OCT	20 NOV 76	
1975 102AH		8653	USSR	29 OCT	13 DEC 76	
1975 102AJ		8654	USSR	29 OCT	15 NOV 76	
1975 102AK		8655	USSR	29 OCT	26 JAN 77	
1975 102AL		8656	USSR	29 OCT	30 OCT 77	
1975 102AM		8657	USSR	29 OCT	13 DEC 76	
1975 102AN		8711	USSR	29 OCT	14 DEC 76	
1975 102AP		8712	USSR	29 OCT	1 MAY 77	
1975 102AQ		8713	USSR	29 OCT	1 APR 76	
1975 102AR		8714	USSR	29 OCT	20 NOV 76	
1975 102AS		8715	USSR	29 OCT	9 FEB 77	
1975 102AT		8716	USSR	29 OCT	4 DEC 76	
1975 102AU		8717	USSR	29 OCT	23 FEB 77	
1975 102AV		8718	USSR	29 OCT	13 DEC 76	
1975 102AW		8719	USSR	29 OCT	13 DEC 76	
1975 102AX		8720	USSR	29 OCT	25 FEB 77	
1975 102AY		8721	USSR	29 OCT	3 MAR 76	
1975 102AZ		8722	USSR	29 OCT	7 DEC 76	
1975 102BA		8723	USSR	29 OCT	14 APR 77	
1975 102BB		8724	USSR	29 OCT	15 NOV 76	
1975 102BC		8725	USSR	29 OCT	2 APR 76	
1975 102BD		8726	USSR	29 OCT	20 APR 76	
1975 102BE		8727	USSR	29 OCT	15 NOV 76	
1975 102BF		8728	USSR	29 OCT	29 MAR 76	
1975 102BG		8729	USSR	29 OCT	8 JAN 77	
1975 102BH		8730	USSR	29 OCT	13 DEC 76	
1975 102BJ		8731	USSR	29 OCT	5 NOV 77	
1975 102BK		8732	USSR	29 OCT	8 SEP 76	
1975 102BL		8733	USSR	29 OCT	8 JAN 77	
1975 102BM		8734	USSR	29 OCT	27 JAN 77	
1975 102BN		8735	USSR	29 OCT	25 APR 76	
1975 102BP		8736	USSR	29 OCT	9 JUN 77	
1975 102BQ		9563	USSR	29 OCT	27 NOV 76	
1975 104A	COSMOS 779	8420	USSR	4 NOV	18 NOV 75	
1975 104B		8422	USSR	4 NOV	10 NOV 75	
1975 104C		8428	USSR	4 NOV	19 NOV 75	
1975 104D		8429	USSR	4 NOV	17 NOV 75	
1975 105B		8426	USSR	14 NOV	15 DEC 75	
1975 105C		8427	USSR	14 NOV	5 DEC 75	
1975 106A	SOYUZ 20	8430	USSR	17 NOV	16 FEB 76	C*
1975 106B		8431	USSR	17 NOV	20 NOV 75	
1975 107A	EXPLORER 55	8440	US	20 NOV	10 JUN 81	
1975 107B		8441	US	20 NOV	19 MAR 76	
1975 108A	COSMOS 780	8442	USSR	21 NOV	3 DEC 75	
1975 108B		8443	USSR	21 NOV	27 NOV 75	
1975 108C		8446	USSR	21 NOV	22 NOV 75	
1975 108D		8460	USSR	21 NOV	11 DEC 75	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 108E		8461	USSR	21 NOV	2 DEC 75	
1975 109A	COSMOS 781	8444	USSR	21 NOV	26 NOV 80	
1975 109B		8445	USSR	21 NOV	20 DEC 80	
1975 109C		8447	USSR	21 NOV	28 JUN 78	
1975 109D		8448	USSR	21 NOV	25 NOV 77	
1975 109E		8449	USSR	21 NOV	9 OCT 77	
1975 109F		8776	USSR	21 NOV	18 NOV 77	
1975 109G		8777	USSR	21 NOV	18 JUL 78	
1975 109H		9693	USSR	21 NOV	11 SEP 77	
1975 109J		9994	USSR	21 NOV	11 FEB 78	
1975 109K		9995	USSR	21 NOV	12 JAN 78	
1975 109L		10433	USSR	21 NOV	19 MAY 78	
1975 110A	COSMOS 782	8450	USSR	25 NOV	15 DEC 75	
1975 110B		8451	USSR	25 NOV	23 DEC 75	
1975 110C		8486	USSR	25 NOV	31 DEC 75	
1975 110D		8487	USSR	25 NOV	10 FEB 76	
1975 110E		8518	USSR	25 NOV	26 JAN 76	
1975 111A	MAO 4	8452	PRC	26 NOV	29 DEC 75	
1975 111B		8453	PRC	26 NOV	22 DEC 75	
1975 111C		8454	PRC	26 NOV	29 NOV 75	
1975 111D		8455	PRC	26 NOV	28 NOV 75	
1975 111E		8456	PRC	26 NOV	28 NOV 75	
1975 111F		8457	PRC	26 NOV	28 NOV 75	
1975 113A	COSMOS 784	8463	USSR	3 DEC	15 DEC 75	
1975 113B		8464	USSR	3 DEC	7 DEC 75	
1975 113C		8465	USSR	3 DEC	4 DEC 75	
1975 113D		8466	USSR	3 DEC	8 DEC 75	
1975 113E		8481	USSR	3 DEC	15 DEC 75	
1975 113F		8484	USSR	3 DEC	20 DEC 75	
1975 113G		8485	USSR	3 DEC	21 DEC 75	
1975 114A		8467	US	4 DEC	1 APR 76	
1975 114B		8468	US	4 DEC	1 MAY 78	
1975 114C		8469	US	4 DEC	6 DEC 75	
1975 114D		8470	US	4 DEC	3 JUN 76	
1975 115A	INTERCOSMOS 14	8471	USSR	11 DEC	27 FEB 83	
1975 115B		8472	USSR	11 DEC	28 NOV 82	
1975 115C		8474	USSR	11 DEC	11 NOV 78	
1975 115D		8475	USSR	11 DEC	30 MAY 82	
1975 115E		8765	USSR	11 DEC	13 APR 81	
1975 115F		8766	USSR	11 DEC	29 MAY 78	
1975 116B		8477	USSR	12 DEC	14 DEC 75	
1975 116C		8480	USSR	12 DEC	5 FEB 76	
1975 117B		8478	US	13 DEC	7 AUG 76	
1975 117C		8479	US	13 DEC	10 NOV 82	
1975 118B		8483	US	14 DEC	19 DEC 75	
1975 119A	MAO 5	8488	PRC	16 DEC	27 JAN 76	
1975 119B		8491	PRC	16 DEC	10 JAN 76	
1975 120A	COSMOS 786	8489	USSR	16 DEC	29 DEC 75	
1975 120B		8490	USSR	16 DEC	21 DEC 75	
1975 120C		8523	USSR	16 DEC	3 JAN 76	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 120D		8524	USSR	16 DEC	29 DEC 75	
1975 120E		8528	USSR	16 DEC	30 DEC 75	
1975 121B		8493	USSR	17 DEC	14 JAN 76	
1975 121C		8494	USSR	17 DEC	11 JAN 76	
1975 122B		8511	USSR	22 DEC	22 FEB 76	
1975 122C		8512	USSR	22 DEC	9 FEB 76	
1975 123B		8514	USSR	22 DEC	22 DEC 75	
1975 123C		8515	USSR	22 DEC	25 DEC 75	
1975 125B		8522	USSR	27 DEC	23 JAN 76	
1975 125C		8525	USSR	27 DEC	19 JAN 76	
1975 125D		8526	USSR	27 DEC	28 DEC 75	
1975 125E		8527	USSR	27 DEC	8 JAN 76	
1976 LAUNCHES						
1976 001A	COSMOS 787	8530	USSR	6 JAN	12 DEC 80	
1976 001B		8531	USSR	6 JAN	15 MAR 81	
1976 001C		8549	USSR	6 JAN	20 OCT 77	
1976 001D		8550	USSR	6 JAN	24 MAR 77	
1976 001E		9731	USSR	6 JAN	15 JUL 78	
1976 001F		9790	USSR	6 JAN	5 AUG 77	
1976 001G		9791	USSR	6 JAN	1 DEC 77	
1976 001H		9792	USSR	6 JAN	12 DEC 77	
1976 001J		9837	USSR	6 JAN	27 AUG 77	
1976 001K		9838	USSR	6 JAN	30 JUL 77	
1976 002A	COSMOS 788	8551	USSR	7 JAN	20 JAN 76	
1976 002B		8552	USSR	7 JAN	14 JAN 76	
1976 002C		8553	USSR	7 JAN	12 JAN 76	
1976 002D		8588	USSR	7 JAN	27 JAN 76	
1976 002E		8589	USSR	7 JAN	23 JAN 76	
1976 002F		8590	USSR	7 JAN	20 JAN 76	
1976 004B		8586	US	17 JAN	14 FEB 76	
1976 004C		8587	US	17 JAN	14 APR 76	
1976 004D		8598	US	17 JAN	17 MAY 77	
1976 006B		8602	USSR	22 JAN	2 APR 76	
1976 006C		8603	USSR	22 JAN	19 APR 76	
1976 007A	COSMOS 790	8604	USSR	22 JAN	12 NOV 80	
1976 007B		8605	USSR	22 JAN	9 DEC 80	
1976 009A	COSMOS 799	8616	USSR	29 JAN	10 FEB 76	
1976 009B		8617	USSR	29 JAN	11 FEB 76	
1976 009C		8618	USSR	29 JAN	31 JAN 76	
1976 009D		8619	USSR	29 JAN	9 FEB 76	
1976 012A	COSMOS 801	8658	USSR	5 FEB	5 JAN 78	
1976 012B		8659	USSR	5 FEB	24 MAR 77	BG*
1976 012C		8660	USSR	5 FEB	14 APR 77	
1976 012D		8661	USSR	5 FEB	28 JUL 76	
1976 012E		8662	USSR	5 FEB	11 OCT 76	
1976 012F		8663	USSR	5 FEB	5 APR 76	
1976 012G		8664	USSR	5 FEB	11 OCT 76	
1976 012H		8665	USSR	5 FEB	17 AUG 76	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 012J		8666	USSR	5 FEB	14 JUN 76	
1976 012K		8667	USSR	5 FEB	18 MAR 76	
1976 012L		8668	USSR	5 FEB	11 OCT 76	
1976 012M		8669	USSR	5 FEB	11 OCT 76	
1976 012N		8670	USSR	5 FEB	11 OCT 76	
1976 012P		8671	USSR	5 FEB	28 JUL 76	
1976 012Q		8672	USSR	5 FEB	11 OCT 76	
1976 012R		8673	USSR	5 FEB	25 SEP 76	
1976 012S		8674	USSR	5 FEB	21 JUN 76	
1976 013A	COSMOS 802	8681	USSR	11 FEB	25 FEB 76	
1976 013B		8686	USSR	11 FEB	17 FEB 76	
1976 013C		8706	USSR	11 FEB	25 FEB 76	
1976 013D		8707	USSR	11 FEB	29 FEB 76	
1976 013E		8708	USSR	11 FEB	26 FEB 76	
1976 014B		8689	USSR	12 FEB	9 NOV 83	
1976 014C		8690	USSR	12 FEB	9 DEC 81	
1976 015A	COSMOS 804	8694	USSR	16 FEB	16 FEB 76	
1976 015B		8695	USSR	16 FEB	26 FEB 76	
1976 016A		8696	US	19 FEB	19 FEB 76	
1976 017B		8698	US	19 FEB	16 MAR 76	
1976 017D		8704	US	19 FEB	2 MAR 76	
1976 017E		8705	US	19 FEB	29 FEB 76	
1976 018A	COSMOS 805	8699	USSR	20 FEB	11 MAR 76	
1976 018B		8700	USSR	20 FEB	27 FEB 76	
1976 018C		8703	USSR	20 FEB	22 FEB 76	
1976 020A	COSMOS 806	8737	USSR	10 MAR	23 MAR 76	
1976 020B		8738	USSR	10 MAR	15 MAR 76	
1976 020C		8768	USSR	10 MAR	30 MAR 76	
1976 020D		8769	USSR	10 MAR	26 MAR 76	
1976 020E		8771	USSR	10 MAR	25 MAR 76	
1976 021B		8742	USSR	11 MAR	13 APR 76	
1976 021C		8743	USSR	11 MAR	5 APR 76	
1976 023E		8750	US	15 MAR	15 MAR 76	
1976 025A	COSMOS 809	8758	USSR	18 MAR	30 MAR 76	
1976 025B		8759	USSR	18 MAR	26 MAR 76	
1976 025C		8760	USSR	18 MAR	19 MAR 76	
1976 025D		8761	USSR	18 MAR	19 MAR 76	
1976 026B		8763	USSR	19 MAR	27 APR 76	
1976 026C		8767	USSR	19 MAR	7 MAY 76	
1976 026D		8792	USSR	19 MAR	2 APR 78	
1976 027A		8770	US	22 MAR	18 MAY 76	
1976 028A	COSMOS 810	8772	USSR	26 MAR	8 APR 76	
1976 028B		8773	USSR	26 MAR	1 APR 76	
1976 028C		8796	USSR	26 MAR	7 APR 76	
1976 028D		8797	USSR	26 MAR	10 APR 76	
1976 028E		8798	USSR	26 MAR	7 APR 76	
1976 029B		8775	US	26 MAR	2 DEC 76	
1976 029C		8793	US	26 MAR	28 JUN 78	
1976 030A	COSMOS 811	8781	USSR	31 MAR	12 APR 76	
1976 030B		8782	USSR	31 MAR	10 APR 76	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 030C		8783	USSR	31 MAR	13 APR 76	
1976 030D		8803	USSR	31 MAR	14 APR 76	
1976 030E		8804	USSR	31 MAR	15 APR 76	
1976 030F		8805	USSR	31 MAR	15 APR 76	
1976 031A	COSMOS 812	8794	USSR	6 APR	30 OCT 80	
1976 031B		8795	USSR	6 APR	5 JAN 81	
1976 031C		9836	USSR	6 APR	18 JUL 78	
1976 031D		9990	USSR	6 APR	27 FEB 78	
1976 033A	COSMOS 813	8801	USSR	9 APR	21 APR 76	
1976 033B		8802	USSR	9 APR	14 APR 76	
1976 034A	COSMOS 814	8806	USSR	13 APR	13 APR 76	
1976 034B		8807	USSR	13 APR	16 APR 76	
1976 035B		8809	US	22 APR	30 MAY 76	
1976 035C		8810	US	22 APR	18 OCT 77	
1976 036A	COSMOS 815	8811	USSR	28 APR	11 MAY 76	
1976 036B		8813	USSR	28 APR	2 MAY 76	
1976 036C		8815	USSR	28 APR	1 MAY 76	
1976 036D		8816	USSR	28 APR	1 MAY 76	
1976 036E		8817	USSR	28 APR	3 MAY 76	
1976 036F		8830	USSR	28 APR	20 MAY 76	
1976 036G		8831	USSR	28 APR	13 MAY 76	
1976 036H		8841	USSR	28 APR	15 MAY 76	
1976 037A	COSMOS 816	8812	USSR	28 APR	24 NOV 79	
1976 037B		8814	USSR	28 APR	16 NOV 79	BH*
1976 037C		8885	USSR	28 APR	12 JUL 77	
1976 037D		8886	USSR	28 APR	26 JUL 77	
1976 037E		9396	USSR	28 APR	12 JUN 77	
1976 037F		9397	USSR	28 APR	17 SEP 77	
1976 037G		9428	USSR	28 APR	9 AUG 77	
1976 037H		9429	USSR	28 APR	10 AUG 77	
1976 037J		9430	USSR	28 APR	29 AUG 77	
1976 037K		9431	USSR	28 APR	24 AUG 77	
1976 037L		9432	USSR	28 APR	20 SEP 77	
1976 037M		9438	USSR	28 APR	19 AUG 77	
1976 037N		9475	USSR	28 APR	2 SEP 77	
1976 037P		9476	USSR	28 APR	16 SEP 77	
1976 037Q		9485	USSR	28 APR	28 OCT 77	
1976 037R		9487	USSR	28 APR	7 SEP 77	
1976 037S		9488	USSR	28 APR	27 SEP 77	
1976 037T		9489	USSR	28 APR	24 SEP 77	
1976 037U		9490	USSR	28 APR	15 SEP 77	
1976 037V		9507	USSR	28 APR	1 AUG 77	
1976 037W		9508	USSR	28 APR	17 SEP 77	
1976 037X		9511	USSR	28 APR	12 OCT 77	
1976 037Y		9512	USSR	28 APR	3 SEP 77	
1976 037Z		9513	USSR	28 APR	17 SEP 77	
1976 037AA		9514	USSR	28 APR	17 OCT 77	
1976 040A	COSMOS 817	8823	USSR	5 MAY	18 MAY 76	
1976 040B		8824	USSR	5 MAY	10 MAY 76	
1976 040C		8825	USSR	5 MAY	6 MAY 76	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 040D		8848	USSR	5 MAY	24 MAY 76	
1976 040E		8849	USSR	5 MAY	19 MAY 76	
1976 040F		8850	USSR	5 MAY	18 MAY 76	
1976 041B		8834	USSR	12 MAY	5 AUG 76	
1976 041C		8837	USSR	12 MAY	8 SEP 76	
1976 041E		8847	USSR	12 MAY	4 JUL 76	
1976 044A	COSMOS 818	8851	USSR	18 MAY	7 MAR 77	
1976 044B		8852	USSR	18 MAY	28 OCT 76	
1976 045A	COSMOS 819	8853	USSR	20 MAY	1 JUN 76	
1976 045B		8854	USSR	20 MAY	30 MAY 76	
1976 045C		8855	USSR	20 MAY	22 MAY 76	
1976 046A	COSMOS 820	8856	USSR	21 MAY	2 JUN 76	
1976 046B		8857	USSR	21 MAY	24 MAY 76	
1976 046C		8858	USSR	21 MAY	21 MAY 76	
1976 046D		8869	USSR	21 MAY	4 JUN 76	
1976 046E		8870	USSR	21 MAY	10 JUN 76	
1976 048A	COSMOS 821	8862	USSR	26 MAY	8 JUN 76	
1976 048B		8863	USSR	26 MAY	7 JUN 76	
1976 048C		8864	USSR	26 MAY	2 JUN 76	
1976 048D		8875	USSR	26 MAY	14 JUN 76	
1976 048E		8876	USSR	26 MAY	9 JUN 76	
1976 048F		8879	USSR	26 MAY	9 JUN 76	
1976 049A	COSMOS 822	8865	USSR	28 MAY	8 AUG 78	
1976 049B		8866	USSR	28 MAY	23 DEC 77	
1976 052A	COSMOS 824	8877	USSR	8 JUN	21 JUN 76	
1976 052B		8878	USSR	8 JUN	20 JUN 76	
1976 052C		8880	USSR	8 JUN	16 JUN 76	
1976 052D		8881	USSR	8 JUN	10 JUN 76	
1976 052E		8905	USSR	8 JUN	27 JUN 76	
1976 052F		8906	USSR	8 JUN	23 JUN 76	
1976 052G		8907	USSR	8 JUN	22 JUN 76	
1976 053B		8883	US	10 JUN	25 AUG 77	
1976 053C		8887	US	10 JUN	2 JUL 76	
1976 053D		8888	US	10 JUN	30 JUN 76	
1976 053E		8902	US	10 JUN	1 JUL 76	
1976 055A	COSMOS 833	8898	USSR	16 JUN	29 JUN 76	
1976 055B		8899	USSR	16 JUN	23 JUN 76	
1976 055C		8900	USSR	16 JUN	17 JUN 76	
1976 055D		8901	USSR	16 JUN	21 JUN 76	
1976 055E		8920	USSR	16 JUN	8 JUL 76	
1976 055F		8921	USSR	16 JUN	1 JUL 76	
1976 055G		8926	USSR	16 JUN	30 JUN 76	
1976 056A	INTERCOSMOS 15	8903	USSR	19 JUN	18 NOV 79	
1976 056B		8904	USSR	19 JUN	15 JAN 80	
1976 057A	SALYUT 5	8911	USSR	22 JUN	8 AUG 77	
1976 057B		8912	USSR	22 JUN	30 JUN 76	
1976 057C		8913	USSR	22 JUN	24 JUN 76	
1976 057D		9059	USSR	22 JUN	13 AUG 76	
1976 057E		9060	USSR	22 JUN	13 AUG 76	
1976 057F		9275	USSR	22 JUN	17 AUG 76	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 057G		9276	USSR	22 JUN	5 SEP 76	
1976 057H		9277	USSR	22 JUN	5 SEP 76	
1976 057J		9385	USSR	22 JUN	13 SEP 76	
1976 057K		9386	USSR	22 JUN	22 AUG 76	
1976 058A	COSMOS 834	8914	USSR	24 JUN	6 JUL 76	
1976 058B		8915	USSR	24 JUN	30 JUN 76	
1976 059B		8917	US	26 JUN	30 JUN 76	
1976 060A	COSMOS 835	8922	USSR	29 JUN	12 JUL 76	
1976 060B		8925	USSR	29 JUN	4 JUL 76	
1976 060C		9014	USSR	29 JUN	20 JUL 76	
1976 060D		9015	USSR	29 JUN	14 JUL 76	
1976 060E		9018	USSR	29 JUN	16 JUL 76	
1976 062A	COSMOS 837	8927	USSR	1 JUL	18 NOV 83	
1976 062B		8928	USSR	1 JUL	5 AUG 76	
1976 062C		8929	USSR	1 JUL	21 JUL 76	
1976 062D		8930	USSR	1 JUL	20 JUL 76	
1976 062E		8931	USSR	1 JUL	26 SEP 82	
1976 063A	COSMOS 838	8932	USSR	2 JUL	23 AUG 77	
1976 063B		8933	USSR	2 JUL	3 JUL 76	BJ*
1976 063C		10047	USSR	2 JUL	13 SEP 77	
1976 063D		10048	USSR	2 JUL	14 AUG 77	
1976 063E		10049	USSR	2 JUL	10 APR 78	
1976 063F		10050	USSR	2 JUL	23 JUL 77	
1976 063G		10051	USSR	2 JUL	1 NOV 77	
1976 063H		10052	USSR	2 JUL	25 MAR 78	
1976 063J		10053	USSR	2 JUL	15 NOV 77	
1976 063K		10054	USSR	2 JUL	8 AUG 78	
1976 063L		10055	USSR	2 JUL	2 DEC 77	
1976 063M		10056	USSR	2 JUL	3 NOV 77	
1976 063N		10057	USSR	2 JUL	15 APR 78	
1976 063P		10058	USSR	2 JUL	20 SEP 77	
1976 063Q		10076	USSR	2 JUL	13 FEB 78	
1976 063R		10077	USSR	2 JUL	12 MAR 78	
1976 063S		10078	USSR	2 JUL	16 NOV 77	
1976 063T		10079	USSR	2 JUL	3 OCT 77	
1976 063U		10080	USSR	2 JUL	19 SEP 78	
1976 063V		10081	USSR	2 JUL	18 APR 78	
1976 063W		10082	USSR	2 JUL	23 SEP 77	
1976 063X		10083	USSR	2 JUL	27 JUL 77	
1976 063Y		10097	USSR	2 JUL	3 MAR 78	
1976 063Z		10098	USSR	2 JUL	23 JUL 77	
1976 063AA		10099	USSR	2 JUL	5 SEP 77	
1976 063AB		10100	USSR	2 JUL	29 OCT 77	
1976 063AC		10101	USSR	2 JUL	20 SEP 77	
1976 063AD		10102	USSR	2 JUL	25 OCT 77	
1976 063AE		10103	USSR	2 JUL	3 JUL 78	
1976 063AF		10104	USSR	2 JUL	19 JUN 78	
1976 063AG		10105	USSR	2 JUL	17 AUG 77	
1976 063AH		10106	USSR	2 JUL	18 APR 78	
1976 063AJ		10107	USSR	2 JUL	3 SEP 77	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 063AK		10108	USSR	2 JUL	27 AUG 77	
1976 063AL		10109	USSR	2 JUL	22 SEP 77	
1976 063AM		10110	USSR	2 JUL	3 SEP 78	
1976 063AN		10122	USSR	2 JUL	9 NOV 77	
1976 063AP		10123	USSR	2 JUL	18 AUG 77	
1976 063AQ		10124	USSR	2 JUL	17 AUG 77	
1976 063AR		10125	USSR	2 JUL	28 JUL 77	
1976 063AS		10126	USSR	2 JUL	12 JAN 78	
1976 064A	SOYUZ 21	8934	USSR	6 JUL	24 AUG 76	E*
1976 064B		8935	USSR	6 JUL	9 JUL 76	
1976 065A		9006	US	8 JUL	13 DEC 76	
1976 065D		9010	US	8 JUL	10 JUL 76	
1976 066B		9012	US	8 JUL	10 JUL 76	
1976 067AL		10467	USSR	8 JUL	3 JUN 82	
1976 068A	COSMOS 840	9019	USSR	14 JUL	26 JUL 76	
1976 068B		9020	USSR	14 JUL	25 JUL 76	
1976 068C		9021	USSR	14 JUL	17 JUL 76	
1976 071A	COSMOS 843	9043	USSR	21 JUL	21 JUL 76	
1976 071B		9045	USSR	21 JUL	23 JUL 76	
1976 072A	COSMOS 844	9046	USSR	22 JUL	30 AUG 76	
1976 072B		9048	USSR	22 JUL	30 JUL 76	BK*
1976 072C		9064	USSR	22 JUL	2 AUG 76	
1976 072D		9065	USSR	22 JUL	2 AUG 76	
1976 072E		9066	USSR	22 JUL	2 AUG 76	
1976 072F		9067	USSR	22 JUL	2 AUG 76	
1976 072G		9068	USSR	22 JUL	2 AUG 76	
1976 072H		9069	USSR	22 JUL	2 AUG 76	
1976 072J		9070	USSR	22 JUL	2 AUG 76	
1976 072K		9071	USSR	22 JUL	2 AUG 76	
1976 072L		9072	USSR	22 JUL	2 AUG 76	
1976 072M		9073	USSR	22 JUL	2 AUG 76	
1976 072N		9074	USSR	22 JUL	2 AUG 76	
1976 072P		9075	USSR	22 JUL	2 AUG 76	
1976 072Q		9076	USSR	22 JUL	2 AUG 76	
1976 072R		9077	USSR	22 JUL	2 AUG 76	
1976 072S		9078	USSR	22 JUL	2 AUG 76	
1976 072T		9079	USSR	22 JUL	2 AUG 76	
1976 072U		9080	USSR	22 JUL	2 AUG 76	
1976 072V		9081	USSR	22 JUL	2 AUG 76	
1976 072W		9082	USSR	22 JUL	2 AUG 76	
1976 072X		9083	USSR	22 JUL	2 AUG 76	
1976 072Y		9084	USSR	22 JUL	2 AUG 76	
1976 072Z		9085	USSR	22 JUL	2 AUG 76	
1976 072AA		9086	USSR	22 JUL	2 AUG 76	
1976 072AB		9087	USSR	22 JUL	2 AUG 76	
1976 072AC		9088	USSR	22 JUL	2 AUG 76	
1976 072AD		9089	USSR	22 JUL	2 AUG 76	
1976 072AE		9090	USSR	22 JUL	2 AUG 76	
1976 072AF		9091	USSR	22 JUL	2 AUG 76	
1976 072AG		9092	USSR	22 JUL	2 AUG 76	

DECAYED OBJECTS

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 072AH		9093	USSR	22 JUL	2 AUG 76	
1976 072AJ		9094	USSR	22 JUL	2 AUG 76	
1976 072AK		9095	USSR	22 JUL	2 AUG 76	
1976 072AL		9096	USSR	22 JUL	2 AUG 76	
1976 072AM		9097	USSR	22 JUL	2 AUG 76	
1976 072AN		9098	USSR	22 JUL	2 AUG 76	
1976 072AP		9099	USSR	22 JUL	2 AUG 76	
1976 072AQ		9100	USSR	22 JUL	2 AUG 76	
1976 072AR		9101	USSR	22 JUL	2 AUG 76	
1976 072AS		9102	USSR	22 JUL	2 AUG 76	
1976 072AT		9103	USSR	22 JUL	2 AUG 76	
1976 072AU		9104	USSR	22 JUL	2 AUG 76	
1976 072AV		9105	USSR	22 JUL	2 AUG 76	
1976 072AW		9106	USSR	22 JUL	2 AUG 76	
1976 072AX		9107	USSR	22 JUL	2 AUG 76	
1976 072AY		9108	USSR	22 JUL	2 AUG 76	
1976 072AZ		9109	USSR	22 JUL	2 AUG 76	
1976 072BA		9110	USSR	22 JUL	2 AUG 76	
1976 072BB		9111	USSR	22 JUL	2 AUG 76	
1976 072BC		9112	USSR	22 JUL	2 AUG 76	
1976 072BD		9113	USSR	22 JUL	2 AUG 76	
1976 072BE		9114	USSR	22 JUL	2 AUG 76	
1976 072BF		9115	USSR	22 JUL	2 AUG 76	
1976 072BG		9116	USSR	22 JUL	2 AUG 76	
1976 072BH		9117	USSR	22 JUL	2 AUG 76	
1976 072BJ		9118	USSR	22 JUL	2 AUG 76	
1976 072BK		9119	USSR	22 JUL	2 AUG 76	
1976 072BL		9120	USSR	22 JUL	2 AUG 76	
1976 072BM		9121	USSR	22 JUL	2 AUG 76	
1976 072BN		9122	USSR	22 JUL	2 AUG 76	
1976 072BP		9123	USSR	22 JUL	2 AUG 76	
1976 072BQ		9124	USSR	22 JUL	2 AUG 76	
1976 072BR		9125	USSR	22 JUL	2 AUG 76	
1976 072BS		9126	USSR	22 JUL	2 AUG 76	
1976 072BT		9127	USSR	22 JUL	2 AUG 76	
1976 072BU		9128	USSR	22 JUL	2 AUG 76	
1976 072BV		9129	USSR	22 JUL	2 AUG 76	
1976 072BW		9130	USSR	22 JUL	2 AUG 76	
1976 072BX		9131	USSR	22 JUL	2 AUG 76	
1976 072BY		9132	USSR	22 JUL	2 AUG 76	
1976 072BZ		9133	USSR	22 JUL	2 AUG 76	
1976 072CA		9134	USSR	22 JUL	2 AUG 76	
1976 072CB		9135	USSR	22 JUL	2 AUG 76	
1976 072CC		9136	USSR	22 JUL	2 AUG 76	
1976 072CD		9137	USSR	22 JUL	2 AUG 76	
1976 072CE		9138	USSR	22 JUL	2 AUG 76	
1976 072CF		9139	USSR	22 JUL	2 AUG 76	
1976 072CG		9140	USSR	22 JUL	2 AUG 76	
1976 072CH		9141	USSR	22 JUL	2 AUG 76	
1976 072CJ		9142	USSR	22 JUL	2 AUG 76	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 072CK		9143	USSR	22 JUL	2 AUG 76	
1976 072CL		9144	USSR	22 JUL	2 AUG 76	
1976 072CM		9145	USSR	22 JUL	2 AUG 76	
1976 072CN		9146	USSR	22 JUL	2 AUG 76	
1976 072CP		9147	USSR	22 JUL	2 AUG 76	
1976 072CQ		9148	USSR	22 JUL	2 AUG 76	
1976 072CR		9149	USSR	22 JUL	2 AUG 76	
1976 072CS		9150	USSR	22 JUL	2 AUG 76	
1976 072CT		9151	USSR	22 JUL	2 AUG 76	
1976 072CU		9152	USSR	22 JUL	2 AUG 76	
1976 072CV		9153	USSR	22 JUL	2 AUG 76	
1976 072CW		9154	USSR	22 JUL	2 AUG 76	
1976 072CX		9155	USSR	22 JUL	2 AUG 76	
1976 072CY		9156	USSR	22 JUL	2 AUG 76	
1976 072CZ		9157	USSR	22 JUL	2 AUG 76	
1976 072DA		9158	USSR	22 JUL	2 AUG 76	
1976 072DB		9159	USSR	22 JUL	2 AUG 76	
1976 072DC		9160	USSR	22 JUL	2 AUG 76	
1976 072DD		9161	USSR	22 JUL	2 AUG 76	
1976 072DE		9162	USSR	22 JUL	2 AUG 76	
1976 072DF		9163	USSR	22 JUL	2 AUG 76	
1976 072DG		9164	USSR	22 JUL	2 AUG 76	
1976 072DH		9165	USSR	22 JUL	2 AUG 76	
1976 072DJ		9166	USSR	22 JUL	2 AUG 76	
1976 072DK		9167	USSR	22 JUL	2 AUG 76	
1976 072DL		9168	USSR	22 JUL	2 AUG 76	
1976 072DM		9169	USSR	22 JUL	2 AUG 76	
1976 072DN		9170	USSR	22 JUL	2 AUG 76	
1976 072DP		9171	USSR	22 JUL	2 AUG 76	
1976 072DQ		9172	USSR	22 JUL	2 AUG 76	
1976 072DR		9173	USSR	22 JUL	2 AUG 76	
1976 072DS		9174	USSR	22 JUL	2 AUG 76	
1976 072DT		9175	USSR	22 JUL	2 AUG 76	
1976 072DU		9176	USSR	22 JUL	2 AUG 76	
1976 072DV		9177	USSR	22 JUL	2 AUG 76	
1976 072DW		9178	USSR	22 JUL	2 AUG 76	
1976 072DX		9179	USSR	22 JUL	2 AUG 76	
1976 072DY		9180	USSR	22 JUL	2 AUG 76	
1976 072DZ		9181	USSR	22 JUL	2 AUG 76	
1976 072EA		9182	USSR	22 JUL	2 AUG 76	
1976 072EB		9183	USSR	22 JUL	2 AUG 76	
1976 072EC		9184	USSR	22 JUL	2 AUG 76	
1976 072ED		9185	USSR	22 JUL	2 AUG 76	
1976 072EE		9186	USSR	22 JUL	2 AUG 76	
1976 072EF		9187	USSR	22 JUL	2 AUG 76	
1976 072EG		9188	USSR	22 JUL	2 AUG 76	
1976 072EH		9189	USSR	22 JUL	2 AUG 76	
1976 072EJ		9190	USSR	22 JUL	2 AUG 76	
1976 072EK		9191	USSR	22 JUL	2 AUG 76	
1976 072EL		9192	USSR	22 JUL	2 AUG 76	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 072EM		9193	USSR	22 JUL	2 AUG 76	
1976 072EN		9194	USSR	22 JUL	2 AUG 76	
1976 072EP		9195	USSR	22 JUL	2 AUG 76	
1976 072EQ		9196	USSR	22 JUL	2 AUG 76	
1976 072ER		9197	USSR	22 JUL	2 AUG 76	
1976 072ES		9198	USSR	22 JUL	2 AUG 76	
1976 072ET		9199	USSR	22 JUL	2 AUG 76	
1976 072EU		9200	USSR	22 JUL	2 AUG 76	
1976 072EV		9201	USSR	22 JUL	2 AUG 76	
1976 072EW		9202	USSR	22 JUL	2 AUG 76	
1976 072EX		9203	USSR	22 JUL	2 AUG 76	
1976 072EY		9204	USSR	22 JUL	2 AUG 76	
1976 072EZ		9205	USSR	22 JUL	2 AUG 76	
1976 072FA		9206	USSR	22 JUL	2 AUG 76	
1976 072FB		9207	USSR	22 JUL	2 AUG 76	
1976 072FC		9208	USSR	22 JUL	2 AUG 76	
1976 072FD		9209	USSR	22 JUL	2 AUG 76	
1976 072FE		9210	USSR	22 JUL	2 AUG 76	
1976 072FF		9211	USSR	22 JUL	2 AUG 76	
1976 072FG		9212	USSR	22 JUL	2 AUG 76	
1976 072FH		9213	USSR	22 JUL	2 AUG 76	
1976 072FJ		9217	USSR	22 JUL	5 AUG 76	
1976 072FK		9218	USSR	22 JUL	5 AUG 76	
1976 072FL		9219	USSR	22 JUL	5 AUG 76	
1976 072FM		9220	USSR	22 JUL	5 AUG 76	
1976 072FN		9221	USSR	22 JUL	5 AUG 76	
1976 072FP		9222	USSR	22 JUL	5 AUG 76	
1976 072FQ		9223	USSR	22 JUL	5 AUG 76	
1976 072FR		9224	USSR	22 JUL	5 AUG 76	
1976 072FS		9225	USSR	22 JUL	5 AUG 76	
1976 072FT		9226	USSR	22 JUL	5 AUG 76	
1976 072FU		9227	USSR	22 JUL	5 AUG 76	
1976 072FV		9228	USSR	22 JUL	5 AUG 76	
1976 072FW		9229	USSR	22 JUL	5 AUG 76	
1976 072FX		9230	USSR	22 JUL	5 AUG 76	
1976 072FY		9231	USSR	22 JUL	5 AUG 76	
1976 072FZ		9232	USSR	22 JUL	5 AUG 76	
1976 072GA		9233	USSR	22 JUL	5 AUG 76	
1976 072GB		9234	USSR	22 JUL	5 AUG 76	
1976 072GC		9235	USSR	22 JUL	5 AUG 76	
1976 072GD		9236	USSR	22 JUL	5 AUG 76	
1976 072GE		9237	USSR	22 JUL	5 AUG 76	
1976 072GF		9238	USSR	22 JUL	5 AUG 76	
1976 072GG		9239	USSR	22 JUL	5 AUG 76	
1976 072GH		9240	USSR	22 JUL	5 AUG 76	
1976 072GJ		9241	USSR	22 JUL	5 AUG 76	
1976 072GK		9242	USSR	22 JUL	5 AUG 76	
1976 072GL		9243	USSR	22 JUL	5 AUG 76	
1976 072GM		9244	USSR	22 JUL	5 AUG 76	
1976 072GN		9245	USSR	22 JUL	5 AUG 76	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 072GP		9246	USSR	22 JUL	5 AUG 76	
1976 072GQ		9247	USSR	22 JUL	5 AUG 76	
1976 072GR		9248	USSR	22 JUL	5 AUG 76	
1976 072GS		9249	USSR	22 JUL	5 AUG 76	
1976 072GT		9250	USSR	22 JUL	5 AUG 76	
1976 072GU		9251	USSR	22 JUL	5 AUG 76	
1976 072GV		9252	USSR	22 JUL	5 AUG 76	
1976 072GW		9253	USSR	22 JUL	5 AUG 76	
1976 072GX		9254	USSR	22 JUL	5 AUG 76	
1976 072GY		9255	USSR	22 JUL	5 AUG 76	
1976 072GZ		9256	USSR	22 JUL	5 AUG 76	
1976 072HA		9257	USSR	22 JUL	5 AUG 76	
1976 072HB		9258	USSR	22 JUL	5 AUG 76	
1976 072HC		9259	USSR	22 JUL	5 AUG 76	
1976 072HD		9260	USSR	22 JUL	5 AUG 76	
1976 072HE		9261	USSR	22 JUL	5 AUG 76	
1976 072HF		9262	USSR	22 JUL	5 AUG 76	
1976 072HG		9263	USSR	22 JUL	5 AUG 76	
1976 072HH		9264	USSR	22 JUL	5 AUG 76	
1976 072HJ		9265	USSR	22 JUL	5 AUG 76	
1976 072HK		9266	USSR	22 JUL	5 AUG 76	
1976 072HL		9331	USSR	22 JUL	13 AUG 76	
1976 072HM		9332	USSR	22 JUL	13 AUG 76	
1976 072HN		9333	USSR	22 JUL	13 AUG 76	
1976 072HP		9334	USSR	22 JUL	13 AUG 76	
1976 072HQ		9335	USSR	22 JUL	13 AUG 76	
1976 072HR		9336	USSR	22 JUL	13 AUG 76	
1976 072HS		9337	USSR	22 JUL	13 AUG 76	
1976 072HT		9338	USSR	22 JUL	13 AUG 76	
1976 072HU		9339	USSR	22 JUL	13 AUG 76	
1976 072HV		9340	USSR	22 JUL	13 AUG 76	
1976 072HW		9341	USSR	22 JUL	13 AUG 76	
1976 072HX		9342	USSR	22 JUL	13 AUG 76	
1976 072HY		9343	USSR	22 JUL	13 AUG 76	
1976 072HZ		9344	USSR	22 JUL	13 AUG 76	
1976 072JA		9345	USSR	22 JUL	13 AUG 76	
1976 072JB		9346	USSR	22 JUL	13 AUG 76	
1976 072JC		9347	USSR	22 JUL	13 AUG 76	
1976 072JD		9348	USSR	22 JUL	13 AUG 76	
1976 072JE		9349	USSR	22 JUL	13 AUG 76	
1976 072JF		9350	USSR	22 JUL	13 AUG 76	
1976 072JG		9351	USSR	22 JUL	13 AUG 76	
1976 072JH		9352	USSR	22 JUL	13 AUG 76	
1976 072JJ		9353	USSR	22 JUL	13 AUG 76	
1976 072JK		9354	USSR	22 JUL	13 AUG 76	
1976 072JL		9355	USSR	22 JUL	13 AUG 76	
1976 072JM		9356	USSR	22 JUL	13 AUG 76	
1976 072JN		9357	USSR	22 JUL	13 AUG 76	
1976 072JP		9358	USSR	22 JUL	13 AUG 76	
1976 072JQ		9359	USSR	22 JUL	13 AUG 76	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 072JR		9360	USSR	22 JUL	13 AUG 76	
1976 072JS		9361	USSR	22 JUL	13 AUG 76	
1976 072JT		9362	USSR	22 JUL	13 AUG 76	
1976 072JU		9363	USSR	22 JUL	13 AUG 76	
1976 072JV		9364	USSR	22 JUL	13 AUG 76	
1976 072JW		9365	USSR	22 JUL	13 AUG 76	
1976 072JX		9366	USSR	22 JUL	13 AUG 76	
1976 072JY		9367	USSR	22 JUL	13 AUG 76	
1976 072JZ		9368	USSR	22 JUL	13 AUG 76	
1976 072KA		9369	USSR	22 JUL	13 AUG 76	
1976 072KB		9370	USSR	22 JUL	13 AUG 76	
1976 072KC		9371	USSR	22 JUL	13 AUG 76	
1976 072KD		9372	USSR	22 JUL	13 AUG 76	
1976 072KE		9373	USSR	22 JUL	13 AUG 76	
1976 072KF		9378	USSR	22 JUL	17 AUG 76	
1976 072KG		9379	USSR	22 JUL	17 AUG 76	
1976 072KH		9380	USSR	22 JUL	17 AUG 76	
1976 072KJ		9381	USSR	22 JUL	17 AUG 76	
1976 074B		9050	USSR	23 JUL	2 OCT 76	
1976 074C		9051	USSR	23 JUL	18 SEP 76	
1976 074D		9052	USSR	23 JUL	1 SEP 76	
1976 075A	COSMOS 845	9053	USSR	27 JUL	15 NOV 80	
1976 075B		9054	USSR	27 JUL	28 FEB 81	
1976 075C		9058	USSR	27 JUL	18 JUL 78	
1976 075D		9267	USSR	27 JUL	14 OCT 78	
1976 075E		9268	USSR	27 JUL	17 FEB 79	
1976 075F		9665	USSR	27 JUL	18 JUL 78	
1976 075G		9718	USSR	27 JUL	27 MAR 78	
1976 075H		9789	USSR	27 JUL	24 JUN 78	
1976 076A	INTERCOSMOS 16	9055	USSR	27 JUL	10 JUL 79	
1976 076B		9056	USSR	27 JUL	21 FEB 80	
1976 077BA		10753	US	29 JUL	2 JAN 82	
1976 079A	COSMOS 847	9214	USSR	4 AUG	17 AUG 76	
1976 079B		9215	USSR	4 AUG	11 AUG 76	
1976 079C		9216	USSR	4 AUG	5 AUG 76	
1976 079D		9376	USSR	4 AUG	23 AUG 76	
1976 079E		9377	USSR	4 AUG	18 AUG 76	
1976 081A	LUNA 24	9272	USSR	9 AUG	18 AUG 76	R*
1976 081B		9273	USSR	9 AUG	9 AUG 76	
1976 081C		9274	USSR	9 AUG	15 AUG 76	
1976 081D		9278	USSR	9 AUG	14 AUG 76	
1976 081E	LUNA 24 DESCENT CRAFT	9384	USSR	9 AUG	22 AUG 76	BL*
1976 082A	COSMOS 848	9280	USSR	12 AUG	25 AUG 76	
1976 082B		9281	USSR	12 AUG	24 AUG 76	
1976 082C		9328	USSR	12 AUG	17 AUG 76	
1976 082D		9374	USSR	12 AUG	1 SEP 76	
1976 082E		9375	USSR	12 AUG	24 AUG 76	
1976 083A	COSMOS 849	9382	USSR	18 AUG	24 APR 78	
1976 083B		9383	USSR	18 AUG	2 NOV 77	
1976 083C		9407	USSR	18 AUG	16 FEB 77	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 084A	COSMOS 850	9387	USSR	26 AUG	16 MAY 77	
1976 084B		9388	USSR	26 AUG	14 JAN 77	
1976 086A	COSMOS 852	9391	USSR	28 AUG	10 SEP 76	
1976 086B		9392	USSR	28 AUG	2 SEP 76	
1976 086C		9393	USSR	28 AUG	29 AUG 76	
1976 086D		9412	USSR	28 AUG	16 SEP 76	
1976 086E		9413	USSR	28 AUG	11 SEP 76	
1976 086F		9414	USSR	28 AUG	11 SEP 76	
1976 087A	MAO 6	9394	PRC	30 AUG	25 NOV 78	
1976 087B		9395	PRC	30 AUG	4 FEB 78	
1976 088A	COSMOS 853	9398	USSR	1 SEP	31 DEC 76	
1976 088B		9399	USSR	1 SEP	10 OCT 76	
1976 088C		9400	USSR	1 SEP	20 MAY 77	
1976 088D		9402	USSR	1 SEP	9 DEC 76	
1976 089A	TIP 3	9403	US	1 SEP	30 MAY 81	
1976 089B		9404	US	1 SEP	29 JUN 78	
1976 089C		9409	US	1 SEP	1 MAR 78	
1976 089D		9410	US	1 SEP	17 MAY 78	
1976 090A	COSMOS 854	9405	USSR	3 SEP	16 SEP 76	
1976 090B		9406	USSR	3 SEP	7 SEP 76	
1976 090C		9422	USSR	3 SEP	19 SEP 76	
1976 090D		9423	USSR	3 SEP	17 SEP 76	
1976 091D		9474	US	11 SEP	20 SEP 80	
1976 091E		9483	US	11 SEP	24 AUG 83	
1976 092B		9417	USSR	11 SEP	14 SEP 76	
1976 092C		9418	USSR	11 SEP	12 SEP 76	
1976 092D		9440	USSR	11 SEP	19 JUL 77	
1976 092E		9441	USSR	11 SEP	20 MAY 77	
1976 093A	SOYUZ 22	9421	USSR	15 SEP	23 SEP 76	E*
1976 093B		9424	USSR	15 SEP	20 SEP 76	
1976 093C		9425	USSR	15 SEP	16 SEP 76	
1976 094A		9426	US	15 SEP	5 NOV 76	
1976 094B		9427	US	15 SEP	17 SEP 76	
1976 095A	COSMOS 855	9433	USSR	21 SEP	3 OCT 76	
1976 095B		9434	USSR	21 SEP	2 OCT 76	
1976 095C		9445	USSR	21 SEP	6 OCT 76	
1976 095D		9446	USSR	21 SEP	8 OCT 76	
1976 096A	COSMOS 856	9435	USSR	22 SEP	5 OCT 76	
1976 096B		9436	USSR	22 SEP	30 SEP 76	
1976 096C		9437	USSR	22 SEP	23 SEP 76	
1976 096D		9447	USSR	22 SEP	8 OCT 76	
1976 096E		9448	USSR	22 SEP	16 OCT 76	
1976 097A	COSMOS 857	9439	USSR	24 SEP	7 OCT 76	
1976 097B		9442	USSR	24 SEP	29 SEP 76	
1976 097C		9449	USSR	24 SEP	15 OCT 76	
1976 097D		9450	USSR	24 SEP	8 OCT 76	
1976 097E		9451	USSR	24 SEP	9 OCT 76	
1976 097F		9470	USSR	24 SEP	11 OCT 76	
1976 099A	COSMOS 859	9471	USSR	10 OCT	21 OCT 76	
1976 099B		9472	USSR	10 OCT	15 OCT 76	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 099C		9473	USSR	10 OCT	11 OCT 76	
1976 099D		9491	USSR	10 OCT	24 OCT 76	
1976 099E		9492	USSR	10 OCT	25 OCT 76	
1976 100A	SOYUZ 23	9477	USSR	14 OCT	16 OCT 76	E*
1976 100B		9480	USSR	14 OCT	16 OCT 76	
1976 101B		9479	US	14 OCT	15 NOV 76	
1976 101C		9493	US	14 OCT	1 NOV 76	
1976 101D		9498	US	14 OCT	4 NOV 76	
1976 101E		9542	US	14 OCT	12 MAY 77	
1976 103B		9531	USSR	17 OCT	29 DEC 76	
1976 103C		9537	USSR	17 OCT	14 NOV 76	
1976 103D		9538	USSR	17 OCT	15 NOV 76	
1976 103E		9539	USSR	17 OCT	12 NOV 76	
1976 104B		9633	USSR	21 OCT	21 OCT 76	
1976 104C		9631	USSR	21 OCT	4 FEB 77	
1976 104D		9632	USSR	21 OCT	25 DEC 76	
1976 105B		9496	USSR	22 OCT	27 DEC 76	
1976 105C		9497	USSR	22 OCT	10 DEC 76	
1976 106A	COSMOS 863	9499	USSR	25 OCT	5 NOV 76	
1976 106B		9500	USSR	25 OCT	1 NOV 76	
1976 106C		9501	USSR	25 OCT	29 OCT 76	
1976 106D		9502	USSR	25 OCT	26 OCT 76	
1976 106E		9521	USSR	25 OCT	11 NOV 76	
1976 106F		9522	USSR	25 OCT	7 NOV 76	
1976 106G		9524	USSR	25 OCT	7 NOV 76	
1976 106H		9527	USSR	25 OCT	9 NOV 76	
1976 106J		9528	USSR	25 OCT	10 NOV 76	
1976 106K		9529	USSR	25 OCT	7 NOV 76	
1976 107B		9504	USSR	26 OCT	29 OCT 76	
1976 107C		9505	USSR	26 OCT	27 OCT 76	
1976 107D		9540	USSR	26 OCT	26 JUN 77	
1976 107E		9541	USSR	26 OCT	20 MAY 77	
1976 109A	COSMOS 865	9515	USSR	1 NOV	13 NOV 76	
1976 109B		9516	USSR	1 NOV	14 NOV 76	
1976 109C		9517	USSR	1 NOV	5 NOV 76	
1976 109D		9519	USSR	1 NOV	7 NOV 76	
1976 109E		9520	USSR	1 NOV	22 NOV 76	
1976 109F		9523	USSR	1 NOV	10 NOV 76	
1976 109G		9525	USSR	1 NOV	10 FEB 77	
1976 109H		9526	USSR	1 NOV	5 FEB 77	
1976 110A	COSMOS 866	9532	USSR	11 NOV	23 NOV 76	
1976 110B		9533	USSR	11 NOV	14 NOV 76	
1976 110C		9534	USSR	11 NOV	16 NOV 76	
1976 110D		9535	USSR	11 NOV	14 NOV 76	
1976 110E		9536	USSR	11 NOV	13 NOV 76	
1976 110F		9551	USSR	11 NOV	24 NOV 76	
1976 110G		9553	USSR	11 NOV	23 NOV 76	
1976 111A	COSMOS 867	9552	USSR	23 NOV	6 DEC 76	
1976 111B		9554	USSR	23 NOV	1 FEB 77	
1976 111C		9555	USSR	23 NOV	16 DEC 76	

DECAYED OBJECTS

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 111D		9556	USSR	23 NOV	8 DEC 76	
1976 111E		9566	USSR	23 NOV	11 DEC 76	
1976 111F		9582	USSR	23 NOV	7 JAN 78	
1976 111G		9583	USSR	23 NOV	26 MAY 77	
1976 111H		9584	USSR	23 NOV	20 MAR 77	
1976 111J		9585	USSR	23 NOV	7 JUL 77	
1976 111K		9586	USSR	23 NOV	5 MAR 77	
1976 112B		9558	USSR	25 NOV	23 JAN 77	
1976 112C		9559	USSR	25 NOV	5 JAN 77	
1976 112D		9560	USSR	25 NOV	24 JAN 77	
1976 113A	COSMOS 868	9561	USSR	26 NOV	8 JUL 78	
1976 113B		9562	USSR	26 NOV	27 NOV 76	
1976 114A	COSMOS 869	9564	USSR	29 NOV	17 DEC 76	
1976 114B		9565	USSR	29 NOV	6 DEC 76	
1976 115A	COSMOS 870	9573	USSR	2 DEC	20 DEC 80	
1976 115B		9576	USSR	2 DEC	28 FEB 81	
1976 115C		9577	USSR	2 DEC	10 FEB 78	
1976 115D		9991	USSR	2 DEC	30 APR 78	
1976 115E		9992	USSR	2 DEC	11 JUN 78	
1976 115F		9993	USSR	2 DEC	7 MAR 80	
1976 116B		9575	USSR	2 DEC	4 MAR 77	
1976 116C		9578	USSR	2 DEC	7 FEB 77	
1976 116E		9580	USSR	2 DEC	13 FEB 77	
1976 116F		9581	USSR	2 DEC	11 JAN 77	
1976 117A	MAO 7	9587	PRC	7 DEC	2 JAN 77	
1976 117B		9596	PRC	7 DEC	29 DEC 76	
1976 117C		9597	PRC	7 DEC	9 DEC 76	
1976 119A	COSMOS 879	9599	USSR	9 DEC	22 DEC 76	
1976 119B		9600	USSR	9 DEC	12 DEC 76	
1976 119C		9602	USSR	9 DEC	3 JAN 77	
1976 119D		9603	USSR	9 DEC	15 DEC 76	
1976 120A	COSMOS 880	9601	USSR	9 DEC	8 OCT 79	
1976 120C		9605	USSR	9 DEC	1 NOV 81	
1976 120D		11178	USSR	9 DEC	12 JUN 81	
1976 120E		11179	USSR	9 DEC	6 MAR 80	
1976 120F		11180	USSR	9 DEC	25 FEB 79	
1976 120G		11181	USSR	9 DEC	20 JUL 79	
1976 120H		11182	USSR	9 DEC	27 OCT 79	
1976 120J		11183	USSR	9 DEC	14 APR 79	
1976 120K		11184	USSR	9 DEC	6 JUL 79	
1976 120L		11185	USSR	9 DEC	5 APR 79	
1976 120M		11186	USSR	9 DEC	13 NOV 80	
1976 120N		11187	USSR	9 DEC	2 APR 79	
1976 120P		11188	USSR	9 DEC	5 MAR 79	
1976 120Q		11189	USSR	9 DEC	23 FEB 79	
1976 120R		11190	USSR	9 DEC	26 MAR 79	
1976 120S		11191	USSR	9 DEC	16 JUN 79	
1976 120T		11192	USSR	9 DEC	5 JUL 79	
1976 120V		11194	USSR	9 DEC	12 JUL 79	
1976 120W		11195	USSR	9 DEC	23 FEB 79	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 120X		11196	USSR	9 DEC	7 APR 79	
1976 120Y		11197	USSR	9 DEC	31 MAR 79	
1976 120Z		11198	USSR	9 DEC	15 MAR 79	
1976 120AA		11199	USSR	9 DEC	18 FEB 79	
1976 120AB		11200	USSR	9 DEC	10 JUL 79	
1976 120AC		11201	USSR	9 DEC	9 DEC 79	
1976 120AD		11202	USSR	9 DEC	13 JUL 79	
1976 120AE		11203	USSR	9 DEC	10 SEP 79	
1976 120AH		11206	USSR	9 DEC	26 FEB 79	
1976 120AK		11208	USSR	9 DEC	11 NOV 79	
1976 120AL		11209	USSR	9 DEC	1 DEC 82	
1976 120AN		11211	USSR	9 DEC	29 MAR 79	
1976 120AS		11215	USSR	9 DEC	24 MAY 79	
1976 120AV		11218	USSR	9 DEC	5 FEB 80	
1976 120AW		11219	USSR	9 DEC	19 NOV 82	
1976 120AZ		11222	USSR	9 DEC	16 JUN 79	
1976 120BB		11224	USSR	9 DEC	3 JUN 79	
1976 120BC		11225	USSR	9 DEC	19 AUG 79	
1976 121A	COSMOS 881	9606	USSR	15 DEC	15 DEC 76	
1976 121B	COSMOS 882	9607	USSR	15 DEC	15 DEC 76	
1976 121C		9608	USSR	15 DEC	20 DEC 76	
1976 121D		9609	USSR	15 DEC	23 DEC 76	
1976 121E		9611	USSR	15 DEC	26 DEC 76	
1976 121F		9612	USSR	15 DEC	21 DEC 76	
1976 123A	COSMOS 884	9614	USSR	17 DEC	29 DEC 76	
1976 123B		9623	USSR	17 DEC	23 DEC 76	
1976 123C		9624	USSR	17 DEC	31 JAN 77	
1976 123D		9639	USSR	17 DEC	31 DEC 76	
1976 123E		9640	USSR	17 DEC	1 JAN 77	
1976 123F		9646	USSR	17 DEC	3 JAN 77	
1976 124A	COSMOS 885	9615	USSR	17 DEC	14 OCT 79	
1976 124B		9625	USSR	17 DEC	5 SEP 79	BM*
1976 124C		9626	USSR	17 DEC	29 OCT 77	
1976 124D		9897	USSR	17 DEC	22 NOV 77	
1976 124E		9901	USSR	17 DEC	11 NOV 77	
1976 124F		9914	USSR	17 DEC	9 DEC 77	
1976 124G		9915	USSR	17 DEC	29 NOV 77	
1976 124H		9916	USSR	17 DEC	16 NOV 77	
1976 124J		9917	USSR	17 DEC	5 NOV 77	
1976 124K		9918	USSR	17 DEC	20 NOV 77	
1976 124L		9919	USSR	17 DEC	10 NOV 77	
1976 124M		9920	USSR	17 DEC	22 DEC 77	
1976 124N		9922	USSR	17 DEC	16 NOV 77	
1976 124P		9923	USSR	17 DEC	9 DEC 77	
1976 124Q		9924	USSR	17 DEC	14 DEC 77	
1976 124R		9925	USSR	17 DEC	22 NOV 77	
1976 124S		9926	USSR	17 DEC	1 DEC 77	
1976 124T		9999	USSR	17 DEC	17 OCT 77	
1976 124U		10391	USSR	17 DEC	11 JAN 78	
1976 125A		9627	US	19 DEC	28 JAN 79	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 125B		9628	US	19 DEC	9 MAY 77	
1976 125C		9629	US	19 DEC	23 FEB 77	
1976 125D		9630	US	19 DEC	9 FEB 77	
1976 126B		9643	USSR	27 DEC	30 DEC 76	
1976 126C		9644	USSR	27 DEC	31 DEC 76	
1976 126D		9645	USSR	27 DEC	14 JAN 77	
1976 126Q		9719	USSR	27 DEC	11 JUL 78	
1976 126R		9720	USSR	27 DEC	9 OCT 81	
1976 126AD		9817	USSR	27 DEC	12 JUL 82	
1976 126AM		9825	USSR	27 DEC	12 MAR 82	
1976 126AS		9952	USSR	27 DEC	11 OCT 80	
1976 126AZ		9959	USSR	27 DEC	20 JUN 82	
1976 127B		9636	USSR	28 DEC	16 MAR 77	
1976 127C		9641	USSR	28 DEC	15 FEB 77	
1976 127D		9642	USSR	28 DEC	23 FEB 77	
1977 LAUNCHES						
1977 001A	COSMOS 888	9658	USSR	6 JAN	19 JAN 77	
1977 001B		9659	USSR	6 JAN	11 JAN 77	
1977 001C		9660	USSR	6 JAN	11 JAN 77	
1977 001D		9732	USSR	6 JAN	23 JAN 77	
1977 001E		9733	USSR	6 JAN	21 JAN 77	
1977 001F		9734	USSR	6 JAN	20 JAN 77	
1977 003A	COSMOS 889	9735	USSR	20 JAN	1 FEB 77	
1977 003B		9736	USSR	20 JAN	1 FEB 77	
1977 005C		9737	US	28 JAN	6 FEB 81	
1977 006A	COSMOS 891	9801	USSR	2 FEB	4 FEB 81	
1977 006B		9802	USSR	2 FEB	18 DEC 79	
1977 007B		9808	US	6 FEB	6 FEB 77	
1977 008A	SOYUZ 24	9804	USSR	7 FEB	25 FEB 77	E*
1977 008B		9805	USSR	7 FEB	12 FEB 77	
1977 008C		9806	USSR	7 FEB	12 FEB 77	
1977 009A	COSMOS 892	9812	USSR	9 FEB	22 FEB 77	
1977 009B		9813	USSR	9 FEB	15 FEB 77	
1977 009C		9814	USSR	9 FEB	10 FEB 77	
1977 009D		9845	USSR	9 FEB	26 FEB 77	
1977 009E		9847	USSR	9 FEB	24 FEB 77	
1977 009F		9849	USSR	9 FEB	23 FEB 77	
1977 009G		9851	USSR	9 FEB	23 FEB 77	
1977 010B		9830	USSR	11 FEB	13 MAR 77	
1977 010C		9831	USSR	11 FEB	2 MAR 77	
1977 010D		9832	USSR	11 FEB	27 FEB 77	
1977 011A	COSMOS 893	9833	USSR	15 FEB	6 OCT 84	
1977 011B		9834	USSR	15 FEB	5 NOV 77	
1977 011C		10486	USSR	15 FEB	18 MAR 78	
1977 012B		9842	JAPAN	19 FEB	21 MAR 79	
1977 012D		9844	JAPAN	19 FEB	15 MAY 78	
1977 016A	COSMOS 896	9857	USSR	3 MAR	16 MAR 77	
1977 016B		9858	USSR	3 MAR	4 MAR 77	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 016C		9865	USSR	3 MAR	25 MAR 77	
1977 016D		9869	USSR	3 MAR	17 MAR 77	
1977 016E		9870	USSR	3 MAR	17 MAR 77	
1977 016F		9873	USSR	3 MAR	24 MAR 77	
1977 016G		9874	USSR	3 MAR	23 MAR 77	
1977 016H		9875	USSR	3 MAR	21 MAR 77	
1977 017A	COSMOS 897	9860	USSR	10 MAR	23 MAR 77	
1977 017B		9861	USSR	10 MAR	15 MAR 77	
1977 017C		9876	USSR	10 MAR	31 MAR 77	
1977 017D		9877	USSR	10 MAR	27 MAR 77	
1977 017E		9878	USSR	10 MAR	26 MAR 77	
1977 017F		9879	USSR	10 MAR	20 MAY 77	
1977 017G		9885	USSR	10 MAR	27 MAR 77	
1977 018B		9864	US	10 MAR	25 APR 82	
1977 018C		9866	US	10 MAR	17 DEC 77	
1977 018D		9867	US	10 MAR	13 OCT 77	
1977 018E		9868	US	10 MAR	15 FEB 78	
1977 019A		9863	US	13 MAR	26 MAY 77	
1977 019B		10012	US	13 MAR	21 MAY 77	
1977 020A	COSMOS 898	9871	USSR	17 MAR	30 MAR 77	
1977 020B		9872	USSR	17 MAR	22 MAR 77	
1977 020C		9886	USSR	17 MAR	30 MAR 77	
1977 020D		9887	USSR	17 MAR	3 APR 77	
1977 021B		9881	USSR	24 MAR	19 APR 77	
1977 021C		9882	USSR	24 MAR	12 APR 77	
1977 022A	COSMOS 899	9883	USSR	24 MAR	19 OCT 80	
1977 022B		9884	USSR	24 MAR	25 DEC 80	
1977 022C		9900	USSR	24 MAR	11 APR 78	
1977 023A	COSMOS 900	9898	USSR	29 MAR	11 OCT 79	
1977 023B		9899	USSR	29 MAR	6 SEP 79	
1977 025A	COSMOS 901	9905	USSR	5 APR	28 JUN 78	
1977 025B		9906	USSR	5 APR	25 MAR 78	
1977 026A	COSMOS 902	9908	USSR	7 APR	20 APR 77	
1977 026B		9909	USSR	7 APR	9 APR 77	
1977 026C		9910	USSR	7 APR	10 APR 77	
1977 026D		9928	USSR	7 APR	20 APR 77	
1977 026E		9929	USSR	7 APR	23 APR 77	
1977 027B		9912	USSR	11 APR	6 JUN 77	
1977 027C		9913	USSR	11 APR	1 MAY 77	
1977 028A	COSMOS 904	9930	USSR	20 APR	4 MAY 77	
1977 028B		9935	USSR	20 APR	29 APR 77	
1977 028C		9936	USSR	20 APR	23 APR 77	
1977 029B		9932	US	20 APR	20 APR 77	
1977 029D		9934	US	20 APR	20 APR 77	
1977 030A	COSMOS 905	9937	USSR	26 APR	26 MAY 77	
1977 030B		9939	USSR	26 APR	1 MAY 77	
1977 030C		9940	USSR	26 APR	14 MAY 77	
1977 030D		10023	USSR	26 APR	26 MAY 77	
1977 031A	COSMOS 906	9938	USSR	27 APR	23 MAR 80	
1977 032B		9942	USSR	28 APR	15 MAY 77	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 032C		9943	USSR	28 APR	15 MAY 77	
1977 033A	COSMOS 907	9944	USSR	5 MAY	16 MAY 77	
1977 033B		9945	USSR	5 MAY	13 MAY 77	
1977 033C		9946	USSR	5 MAY	6 MAY 77	
1977 033D		9947	USSR	5 MAY	6 MAY 77	
1977 033E		10004	USSR	5 MAY	17 MAY 77	
1977 033F		10005	USSR	5 MAY	20 MAY 77	
1977 033G		10006	USSR	5 MAY	24 MAY 77	
1977 034D		10003	US	12 MAY	14 MAY 77	
1977 035A	COSMOS 908	10007	USSR	17 MAY	31 MAY 77	
1977 035B		10008	USSR	17 MAY	21 MAY 77	
1977 035C		10009	USSR	17 MAY	22 MAY 77	
1977 035D		10027	USSR	17 MAY	3 JUN 77	
1977 037A	COSMOS 910	10014	USSR	23 MAY	23 MAY 77	
1977 037B		10015	USSR	23 MAY	27 MAY 77	
1977 037C		10018	USSR	23 MAY	24 MAY 77	
1977 040A	COSMOS 912	10021	USSR	26 MAY	8 JUN 77	
1977 040B		10022	USSR	26 MAY	31 MAY 77	
1977 040C		10026	USSR	26 MAY	27 MAY 77	
1977 040D		10035	USSR	26 MAY	12 JUN 77	
1977 040E		10036	USSR	26 MAY	18 JUN 77	
1977 042A	COSMOS 913	10028	USSR	30 MAY	29 DEC 79	
1977 042B		10029	USSR	30 MAY	2 NOV 79	BN*
1977 042C		10237	USSR	30 MAY	18 APR 78	
1977 042D		10238	USSR	30 MAY	18 FEB 78	
1977 042E		10329	USSR	30 MAY	26 FEB 78	
1977 042F		10330	USSR	30 MAY	23 FEB 78	
1977 042G		10331	USSR	30 MAY	23 FEB 78	
1977 042H		10332	USSR	30 MAY	18 APR 78	
1977 042J		10333	USSR	30 MAY	11 MAR 78	
1977 042K		10334	USSR	30 MAY	15 FEB 78	
1977 042L		10335	USSR	30 MAY	15 FEB 78	
1977 042M		10336	USSR	30 MAY	4 FEB 78	
1977 042N		10337	USSR	30 MAY	23 FEB 78	
1977 042P		10349	USSR	30 MAY	18 APR 78	
1977 042Q		10350	USSR	30 MAY	15 MAR 78	
1977 042R		10418	USSR	30 MAY	18 JUN 78	
1977 042S		10487	USSR	30 MAY	22 MAR 78	
1977 042T		10488	USSR	30 MAY	18 APR 78	
1977 042U		10494	USSR	30 MAY	18 MAR 78	
1977 042V		10495	USSR	30 MAY	18 MAR 78	
1977 042W		10496	USSR	30 MAY	18 APR 78	
1977 042X		10497	USSR	30 MAY	27 MAR 78	
1977 043A	COSMOS 914	10030	USSR	31 MAY	13 JUN 77	
1977 043B		10031	USSR	31 MAY	11 JUN 77	
1977 043C		10032	USSR	31 MAY	16 JUN 77	
1977 043D		10045	USSR	31 MAY	18 JUN 77	
1977 043E		10046	USSR	31 MAY	2 JUL 77	
1977 045A	COSMOS 915	10038	USSR	8 JUN	21 JUN 77	
1977 045B		10039	USSR	8 JUN	11 JUN 77	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 045C		10073	USSR	8 JUN	25 JUN 77	
1977 045D		10074	USSR	8 JUN	23 JUN 77	
1977 045E		10084	USSR	8 JUN	23 JUN 77	
1977 046A	COSMOS 916	10040	USSR	10 JUN	21 JUN 77	
1977 046B		10041	USSR	10 JUN	1 JUL 77	
1977 046C		10042	USSR	10 JUN	29 JUN 77	
1977 046D		10043	USSR	10 JUN	18 JUN 77	
1977 046E		10044	USSR	10 JUN	25 JUN 77	
1977 046F		10088	USSR	10 JUN	27 JUN 77	
1977 046G		10090	USSR	10 JUN	1 JUL 77	
1977 047B		10060	USSR	16 JUN	17 AUG 77	
1977 047C		10066	USSR	16 JUN	14 JUL 77	
1977 048C		10063	US	16 JUN	12 JUL 77	
1977 048D		10067	US	16 JUN	29 JUN 77	
1977 048E		10075	US	16 JUN	11 JUL 77	
1977 049A	SIGNE 3	10064	FRANCE	17 JUN	20 JUN 79	
1977 049B		10069	USSR	17 JUN	5 FEB 80	
1977 050A	COSMOS 918	10065	USSR	17 JUN	18 JUN 77	
1977 050B		10068	USSR	17 JUN	18 JUN 77	
1977 051A	COSMOS 919	10070	USSR	18 JUN	28 AUG 78	
1977 051B		10071	USSR	18 JUN	21 APR 78	
1977 051C		10072	USSR	18 JUN	15 JUL 77	
1977 051D		10808	USSR	18 JUN	18 JUL 78	
1977 052A	COSMOS 920	10086	USSR	22 JUN	5 JUL 77	
1977 052B		10087	USSR	22 JUN	27 JUN 77	
1977 052C		10127	USSR	22 JUN	10 JUL 77	
1977 052D		10128	USSR	22 JUN	8 JUL 77	
1977 052E		10133	USSR	22 JUN	10 JUL 77	
1977 054B		10093	USSR	24 JUN	24 AUG 77	
1977 054C		10094	USSR	24 JUN	4 AUG 77	
1977 056A		10111	US	27 JUN	23 DEC 77	
1977 056B		10112	US	27 JUN	29 JUN 77	
1977 057C		10116	USSR	29 JUN	2 AUG 77	
1977 058A	COSMOS 922	10115	USSR	30 JUN	13 JUL 77	
1977 058B		10117	USSR	30 JUN	8 JUL 77	
1977 058C		10118	USSR	30 JUN	2 JUL 77	
1977 058D		10119	USSR	30 JUN	2 JUL 77	
1977 060A	COSMOS 924	10129	USSR	4 JUL	10 FEB 81	
1977 060B		10130	USSR	4 JUL	20 JAN 81	
1977 060C		10131	USSR	4 JUL	12 JAN 78	
1977 060D		10132	USSR	4 JUL	3 DEC 77	
1977 063A	COSMOS 927	10139	USSR	12 JUL	25 JUL 77	
1977 063B		10140	USSR	12 JUL	18 JUL 77	
1977 063C		10162	USSR	12 JUL	27 JUL 77	
1977 063D		10163	USSR	12 JUL	26 JUL 77	
1977 065C		10145	US	14 JUL	31 MAR 78	
1977 065D		10156	US	14 JUL	6 NOV 81	
1977 065E		10176	US	14 JUL	22 MAY 79	
1977 065L		10182	US	14 JUL	1 JAN 81	
1977 065R		10187	US	14 JUL	27 OCT 78	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 065T		10189	US	14 JUL	16 FEB 79	
1977 065V		10191	US	14 JUL	4 DEC 78	
1977 065X		10193	US	14 JUL	17 APR 79	
1977 065Z		10196	US	14 JUL	10 NOV 82	
1977 065AA		10197	US	14 JUL	18 JUL 81	
1977 065AC		10199	US	14 JUL	30 NOV 80	
1977 065AD		10200	US	14 JUL	15 MAY 81	
1977 065AJ		10205	US	14 JUL	9 AUG 81	
1977 065AN		10209	US	14 JUL	26 SEP 82	
1977 065AP		10210	US	14 JUL	17 NOV 81	
1977 065AS		10213	US	14 JUL	13 APR 81	
1977 065AU		10215	US	14 JUL	13 APR 81	
1977 065AV		10216	US	14 JUL	5 JUN 82	
1977 065AZ		10222	US	14 JUL	24 DEC 78	
1977 065BB		10224	US	14 JUL	20 JUN 81	
1977 065BC		10225	US	14 JUL	9 OCT 80	
1977 065BF		10228	US	14 JUL	11 MAR 81	
1977 065BJ		10231	US	14 JUL	20 JUL 82	
1977 065BP		10236	US	14 JUL	27 AUG 80	
1977 065BT		10242	US	14 JUL	29 APR 81	
1977 065BW		10245	US	14 JUL	4 NOV 77	
1977 065BY		10247	US	14 JUL	9 AUG 79	
1977 065BZ		10248	US	14 JUL	14 FEB 79	
1977 065CE		10253	US	14 JUL	20 FEB 78	
1977 065CF		10254	US	14 JUL	4 JUN 81	
1977 065CH		10256	US	14 JUL	5 FEB 82	
1977 065CQ		10263	US	14 JUL	1 MAY 81	
1977 065CS		10265	US	14 JUL	22 JUN 80	
1977 065CU		10267	US	14 JUL	21 JAN 82	
1977 065CV		10268	US	14 JUL	13 AUG 79	
1977 065DA		10304	US	14 JUL	8 NOV 82	
1977 065DD		10307	US	14 JUL	6 JUN 81	
1977 065DE		10308	US	14 JUL	16 JUN 79	
1977 065DG		10310	US	14 JUL	11 JUL 80	
1977 065DR		10342	US	14 JUL	26 JAN 83	
1977 065DS		10343	US	14 JUL	14 OCT 78	
1977 065DT		10344	US	14 JUL	2 JUL 79	
1977 065DW		10347	US	14 JUL	6 JUL 81	
1977 065DZ		10390	US	14 JUL	6 DEC 81	
1977 065EA		10468	US	14 JUL	15 SEP 80	
1977 065EE		10472	US	14 JUL	16 MAR 81	
1977 065EF		10473	US	14 JUL	7 JAN 82	
1977 065EG		10474	US	14 JUL	12 JUN 78	
1977 065EH		10475	US	14 JUL	10 NOV 81	
1977 065EK		10477	US	14 JUL	10 DEC 81	
1977 065EQ		10482	US	14 JUL	10 NOV 82	
1977 065ER		10483	US	14 JUL	20 AUG 81	
1977 065ET		10624	US	14 JUL	27 JUN 80	
1977 065EU		10625	US	14 JUL	30 JUL 82	
1977 065FA		10631	US	14 JUL	8 OCT 80	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 065FE		10635	US	14 JUL	30 SEP 80	
1977 066A	COSMOS 929	10146	USSR	17 JUL	2 FEB 78	
1977 066B		10147	USSR	17 JUL	29 JUL 77	
1977 066C		10148	USSR	17 JUL	24 JUL 77	
1977 067A	COSMOS 930	10149	USSR	19 JUL	12 MAY 80	
1977 068B		10151	USSR	20 JUL	22 SEP 77	
1977 068C		10152	USSR	20 JUL	17 AUG 77	
1977 069A	COSMOS 932	10153	USSR	20 JUL	2 AUG 77	
1977 069B		10154	USSR	20 JUL	24 JUL 77	
1977 069C		10170	USSR	20 JUL	3 AUG 77	
1977 069D		10171	USSR	20 JUL	3 AUG 77	
1977 070A	COSMOS 933	10157	USSR	22 JUL	1 NOV 78	
1977 070B		10158	USSR	22 JUL	7 JUN 78	
1977 071B		10160	USSR	23 JUL	26 JUL 77	
1977 071C		10161	USSR	23 JUL	26 JUL 77	
1977 071D		10276	USSR	23 JUL	5 JUN 78	
1977 071E		10277	USSR	23 JUL	25 MAR 78	
1977 072A	COSMOS 934	10164	USSR	27 JUL	9 AUG 77	
1977 072B		10165	USSR	27 JUL	5 AUG 77	
1977 072C		10166	USSR	27 JUL	2 AUG 77	
1977 072D		10174	USSR	27 JUL	17 AUG 77	
1977 072E		10175	USSR	27 JUL	10 AUG 77	
1977 072F		10195	USSR	27 JUL	12 AUG 77	
1977 073A	COSMOS 935	10168	USSR	29 JUL	11 AUG 77	
1977 073B		10169	USSR	29 JUL	3 AUG 77	
1977 074A	COSMOS 936	10172	USSR	3 AUG	22 AUG 77	
1977 074B		10173	USSR	3 AUG	28 AUG 77	
1977 074C		10274	USSR	3 AUG	5 SEP 77	
1977 074D		10275	USSR	3 AUG	8 OCT 77	
1977 075A	HEAD 1	10217	US	12 AUG	15 MAR 79	
1977 075B		10218	US	12 AUG	25 NOV 77	
1977 077A	COSMOS 937	10278	USSR	24 AUG	19 OCT 78	
1977 077B		10279	USSR	24 AUG	25 AUG 77	
1977 077C		10280	USSR	24 AUG	25 AUG 77	
1977 078A	COSMOS 938	10281	USSR	24 AUG	6 SEP 77	
1977 078B		10283	USSR	24 AUG	30 AUG 77	
1977 078C		10284	USSR	24 AUG	11 SEP 77	
1977 078D		10285	USSR	24 AUG	21 SEP 77	
1977 078E		10324	USSR	24 AUG	7 SEP 77	
1977 078F		10325	USSR	24 AUG	6 SEP 77	
1977 080C		10296	US	25 AUG	10 NOV 82	
1977 080D		10297	US	25 AUG	18 JAN 78	
1977 080E		10298	US	25 AUG	7 DEC 77	
1977 081A	COSMOS 947	10299	USSR	27 AUG	9 SEP 77	
1977 081B		10300	USSR	27 AUG	7 SEP 77	
1977 081C		10301	USSR	27 AUG	7 SEP 77	
1977 082B		10316	USSR	30 AUG	26 SEP 77	
1977 082C		10317	USSR	30 AUG	23 SEP 77	
1977 082D		10318	USSR	30 AUG	23 SEP 77	
1977 083A	COSMOS 948	10319	USSR	2 SEP	15 SEP 77	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 083B		10320	USSR	2 SEP	7 SEP 77	
1977 083C		10356	USSR	2 SEP	20 SEP 77	
1977 083D		10357	USSR	2 SEP	15 SEP 77	
1977 085A	COSMOS 949	10326	USSR	6 SEP	6 OCT 77	
1977 085B		10327	USSR	6 SEP	11 SEP 77	
1977 085C		10328	USSR	6 SEP	10 SEP 77	
1977 086A	COSMOS 950	10351	USSR	13 SEP	27 SEP 77	
1977 086B		10353	USSR	13 SEP	18 SEP 77	
1977 086C		10354	USSR	13 SEP	20 SEP 77	
1977 088B		10399	USSR	16 SEP	7 NOV 77	
1977 088C		10400	USSR	16 SEP	11 OCT 77	
1977 089A	COSMOS 953	10359	USSR	16 SEP	29 SEP 77	
1977 089B		10360	USSR	16 SEP	21 SEP 77	
1977 089C		10380	USSR	16 SEP	30 SEP 77	
1977 089D		10381	USSR	16 SEP	29 SEP 77	
1977 090A	COSMOS 954	10361	USSR	18 SEP	24 JAN 78	
1977 091C		10364	USSR	20 SEP	3 JUN 82	
1977 092B		10366	USSR	20 SEP	21 SEP 77	
1977 092C		10367	USSR	20 SEP	21 SEP 77	
1977 092D		10368	USSR	20 SEP	25 SEP 77	
1977 092E		10408	USSR	20 SEP	30 APR 78	
1977 092F		10484	USSR	20 SEP	18 JUN 78	
1977 093B		10371	USSR	22 SEP	29 OCT 77	
1977 093C		10372	USSR	22 SEP	23 OCT 77	
1977 093D		10373	USSR	22 SEP	28 SEP 77	
1977 094A		10374	US	23 SEP	8 DEC 77	
1977 095A	COSMOS 956	10375	USSR	24 SEP	27 JUN 82	
1977 095B		10378	USSR	24 SEP	1 NOV 82	
1977 096A	INTERCOSMOS 17	10376	USSR	24 SEP	8 NOV 79	
1977 096B		10377	USSR	24 SEP	11 SEP 79	
1977 096C		10379	USSR	24 SEP	8 APR 78	
1977 097A	SALYUT 6	10382	USSR	29 SEP	29 JUL 82	
1977 097B		10383	USSR	29 SEP	5 OCT 77	BP*
1977 097C		10384	USSR	29 SEP	3 OCT 77	
1977 097D		10533	USSR	29 SEP	22 FEB 78	
1977 097E		10545	USSR	29 SEP	24 APR 78	
1977 097F		10547	USSR	29 SEP	12 MAY 78	
1977 097G		10548	USSR	29 SEP	25 MAR 78	
1977 097H		10553	USSR	29 SEP	27 MAY 78	
1977 097J		10596	USSR	29 SEP	14 MAY 78	
1977 097K		10597	USSR	29 SEP	21 MAR 78	
1977 097L		10598	USSR	29 SEP	8 FEB 78	
1977 097M		10685	USSR	29 SEP	6 MAR 78	
1977 097N		10686	USSR	29 SEP	6 MAR 78	
1977 097P		10687	USSR	29 SEP	6 MAR 78	
1977 097Q		10738	USSR	29 SEP	26 APR 78	
1977 097R		10740	USSR	29 SEP	15 JUN 78	
1977 097S		10743	USSR	29 SEP	17 JUN 78	
1977 097T		10781	USSR	29 SEP	29 MAY 78	
1977 097U		11032	USSR	29 SEP	21 OCT 78	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 097V		11033	USSR	29 SEP	14 OCT 78	
1977 097W		11034	USSR	29 SEP	3 DEC 78	
1977 097X		11035	USSR	29 SEP	26 NOV 78	
1977 097Y		11036	USSR	29 SEP	6 MAY 79	
1977 097Z		11091	USSR	29 SEP	14 APR 79	
1977 097AA		11092	USSR	19 SEP	12 DEC 78	
1977 097AB		11093	USSR	19 SEP	26 NOV 78	
1977 097AC		11094	USSR	29 SEP	28 JAN 79	
1977 097AD		11095	USSR	19 SEP	15 DEC 78	
1977 097AE		11096	USSR	29 SEP	30 JUL 79	
1977 097AF		11097	USSR	19 SEP	19 DEC 78	
1977 097AG		11100	USSR	19 SEP	16 FEB 79	
1977 097AH		11338	USSR	29 SEP	22 JUN 79	
1977 097AJ		11339	USSR	29 SEP	25 MAY 79	
1977 097AK		11340	USSR	29 SEP	3 MAY 79	
1977 097AL		11341	USSR	29 SEP	9 JUL 79	
1977 097AM		11342	USSR	29 SEP	25 MAY 79	
1977 097AN		11350	USSR	29 SEP	17 JUL 79	
1977 097AP		11431	USSR	29 SEP	4 SEP 79	
1977 097AQ		11432	USSR	29 SEP	5 OCT 79	
1977 097AR		11433	USSR	29 SEP	16 JUL 79	
1977 097AS		11434	USSR	29 SEP	27 NOV 79	
1977 097AT		11435	USSR	29 SEP	25 AUG 79	
1977 097AU		11467	USSR	29 SEP	23 OCT 79	
1977 097AV		11468	USSR	29 SEP	17 OCT 79	
1977 097AW		11469	USSR	29 SEP	17 OCT 79	
1977 097AX		11470	USSR	29 SEP	23 OCT 79	
1977 097AY		11471	USSR	29 SEP	15 OCT 79	
1977 097AZ		11472	USSR	29 SEP	16 MAR 80	
1977 097BA		11473	USSR	29 SEP	26 OCT 79	
1977 097BB		11480	USSR	29 SEP	15 OCT 79	
1977 097BC		11489	USSR	29 SEP	15 OCT 79	
1977 097BD		11493	USSR	29 SEP	26 AUG 79	
1977 097BE		11494	USSR	29 SEP	31 DEC 79	
1977 097BF		11495	USSR	29 SEP	11 OCT 79	
1977 097BG		11500	USSR	29 SEP	21 DEC 79	
1977 097BH		11501	USSR	29 SEP	28 DEC 79	
1977 097BJ		11502	USSR	29 SEP	11 SEP 79	
1977 097BK		11503	USSR	29 SEP	21 DEC 79	
1977 097BL		11504	USSR	29 SEP	22 MAR 80	
1977 097BM		11508	USSR	29 SEP	20 OCT 79	
1977 097BN		11523	USSR	29 SEP	19 JAN 80	
1977 097BP		11563	USSR	29 SEP	9 NOV 79	
1977 097BQ		11572	USSR	29 SEP	27 OCT 79	
1977 097BR		11740	USSR	29 SEP	28 MAY 80	
1977 097BS		11832	USSR	29 SEP	5 SEP 80	
1977 097BT		11893	USSR	29 JUL	4 SEP 80	
1977 097BU		11930	USSR	29 SEP	15 OCT 80	
1977 097BV		11931	USSR	29 SEP	21 OCT 80	
1977 097BW		11934	USSR	29 SEP	8 SEP 80	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 097BX		11935	USSR	29 SEP	15 OCT 80	
1977 097BY		11936	USSR	29 SEP	14 SEP 80	
1977 097BZ		11937	USSR	29 SEP	16 OCT 80	
1977 097CA		11942	USSR	29 SEP	14 SEP 80	
1977 097CB		11947	USSR	29 SEP	16 OCT 80	
1977 097CC		11955	USSR	29 SEP	1 OCT 80	
1977 097CD		11956	USSR	29 SEP	27 OCT 80	
1977 097CE		11957	USSR	29 SEP	21 OCT 80	
1977 097CF		11958	USSR	29 SEP	24 SEP 80	
1977 097CG		11966	USSR	29 SEP	23 NOV 80	
1977 097CH		11967	USSR	29 SEP	6 OCT 80	
1977 097CJ		11972	USSR	29 SEP	3 NOV 80	
1977 097CK		11973	USSR	29 SEP	15 OCT 80	
1977 097CL		11974	USSR	29 SEP	13 NOV 80	
1977 097CM		11975	USSR	29 SEP	13 OCT 80	
1977 097CN		12090	USSR	29 SEP	26 JAN 81	
1977 097CP		12390	USSR	29 SEP	8 MAY 81	
1977 097CQ		12391	USSR	29 SEP	22 JUN 81	
1977 097CR		12392	USSR	29 SEP	29 APR 81	
1977 097CS		12393	USSR	29 SEP	25 APR 81	
1977 097CT		12394	USSR	29 SEP	5 MAY 81	
1977 097CU		12395	USSR	29 SEP	8 MAY 81	
1977 097CV		12398	USSR	29 SEP	27 JUN 81	
1977 097CW		12436	USSR	29 SEP	27 JUL 81	
1977 097CX		12437	USSR	29 SEP	6 JUL 81	
1977 097CY		12438	USSR	29 SEP	12 JUN 81	
1977 097CZ		12439	USSR	29 SEP	6 JUL 81	
1977 097DA		12440	USSR	29 SEP	11 JUN 81	
1977 097DB		12441	USSR	29 SEP	24 MAY 81	
1977 097DC		12444	USSR	29 SEP	10 JUL 81	
1977 097DD		12476	USSR	29 SEP	22 JUL 81	
1977 097DE		12477	USSR	29 SEP	14 SEP 81	
1977 097DF		12478	USSR	29 SEP	21 JUL 81	
1977 097DG		12479	USSR	29 SEP	19 JUL 81	
1977 097DH		12488	USSR	29 SEP	9 SEP 81	
1977 097DJ		12489	USSR	29 SEP	7 OCT 81	
1977 097DK		12493	USSR	29 SEP	9 SEP 81	
1977 098A	COSMOS 957	10385	USSR	30 SEP	13 OCT 77	
1977 098B		10386	USSR	30 SEP	5 OCT 77	
1977 098C		10387	USSR	30 SEP	13 OCT 77	
1977 098D		10388	USSR	30 SEP	13 OCT 77	
1977 098E		10406	USSR	30 SEP	15 OCT 77	
1977 098F		10407	USSR	30 SEP	13 OCT 77	
1977 099A	SOYUZ 25	10401	USSR	9 OCT	11 OCT 77	AD*
1977 099B		10402	USSR	9 OCT	11 OCT 77	
1977 100A	COSMOS 958	10403	USSR	11 OCT	24 OCT 77	
1977 100B		10404	USSR	11 OCT	9 NOV 77	
1977 100C		10405	USSR	11 OCT	31 OCT 77	
1977 100D		10426	USSR	11 OCT	5 MAR 78	
1977 100E		10427	USSR	11 OCT	15 SEP 78	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 100F		10428	USSR	11 OCT	18 JUN 78	
1977 100G		10429	USSR	11 OCT	16 JAN 78	
1977 101A	COSMOS 959	10419	USSR	21 OCT	30 NOV 77	
1977 101B		10420	USSR	21 OCT	8 NOV 77	
1977 101C		10421	USSR	21 OCT	5 NOV 77	
1977 102C		10424	US	22 OCT	23 OCT 78	
1977 103A	COSMOS 960	10430	USSR	25 OCT	22 OCT 80	
1977 103B		10431	USSR	25 OCT	30 NOV 80	
1977 103C		10432	USSR	25 OCT	24 JUN 78	
1977 104A	COSMOS 961	10434	USSR	26 OCT	26 OCT 77	
1977 104B		10435	USSR	26 OCT	27 OCT 77	
1977 105B		10456	USSR	28 OCT	18 NOV 77	
1977 105C		10458	USSR	28 OCT	26 NOV 77	
1977 105D		10460	USSR	28 OCT	20 NOV 77	
1977 110A	COSMOS 964	10498	USSR	4 DEC	17 DEC 77	
1977 110B		10499	USSR	4 DEC	9 DEC 77	
1977 110C		10500	USSR	4 DEC	6 JAN 78	
1977 110D		10522	USSR	4 DEC	20 DEC 77	
1977 110E		10523	USSR	4 DEC	20 DEC 77	
1977 111A	COSMOS 965	10501	USSR	8 DEC	16 DEC 79	
1977 111B		10503	USSR	8 DEC	14 NOV 79	BQ*
1977 111C		10505	USSR	8 DEC	15 APR 78	
1977 111D		10682	USSR	8 DEC	17 APR 78	
1977 111E		10683	USSR	8 DEC	1 MAY 78	
1977 111F		10741	USSR	8 DEC	15 MAY 78	
1977 111G		10742	USSR	8 DEC	18 JUL 78	
1977 111H		10780	USSR	8 DEC	24 MAY 78	
1977 111J		10782	USSR	8 DEC	18 JUL 78	
1977 111K		10789	USSR	8 DEC	6 JUN 78	
1977 111L		10795	USSR	8 DEC	1 JUN 78	
1977 111M		10797	USSR	8 DEC	18 JUL 78	
1977 111N		10807	USSR	8 DEC	23 MAY 78	
1977 111P		10809	USSR	8 DEC	20 JUN 78	
1977 111Q		10814	USSR	8 DEC	18 JUN 78	
1977 111R		10815	USSR	8 DEC	8 JUL 79	
1977 111S		10816	USSR	8 DEC	6 JUL 78	
1977 111T		10817	USSR	8 DEC	20 JUN 78	
1977 111U		10858	USSR	8 DEC	30 JUL 78	
1977 111V		10859	USSR	8 DEC	26 JUL 78	
1977 111W		10891	USSR	8 DEC	19 JUL 78	
1977 111X		10892	USSR	8 DEC	25 JUL 78	
1977 111Y		10908	USSR	8 DEC	4 AUG 78	
1977 111Z		10909	USSR	8 DEC	4 DEC 78	
1977 111AA		10910	USSR	8 DEC	4 DEC 78	
1977 111AB		10923	USSR	8 DEC	24 AUG 78	
1977 111AC		10924	USSR	8 DEC	17 AUG 78	
1977 113A	SOYUZ 26	10506	USSR	10 DEC	16 JAN 78	E*
1977 113B		10507	USSR	10 DEC	12 DEC 77	
1977 115A	COSMOS 966	10510	USSR	12 DEC	24 DEC 77	
1977 115B		10511	USSR	12 DEC	18 DEC 77	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 115C		10534	USSR	12 DEC	29 DEC 77	
1977 115D		10538	USSR	12 DEC	7 JAN 78	
1977 118D		11072	US	15 DEC	9 OCT 81	
1977 120A	COSMOS 969	10527	USSR	20 DEC	3 JAN 78	
1977 120B		10530	USSR	20 DEC	26 DEC 77	
1977 120C		10549	USSR	20 DEC	5 JAN 78	
1977 120D		10550	USSR	20 DEC	4 JAN 78	
1977 120E		10551	USSR	20 DEC	5 MAR 78	
1977 120F		10552	USSR	20 DEC	5 MAR 78	
1977 121B		10532	USSR	21 DEC	25 DEC 77	
1977 123C		10546	USSR	27 DEC	31 DEC 77	
1977 124A	COSMOS 973	10540	USSR	27 DEC	9 JAN 78	
1977 124B		10542	USSR	27 DEC	5 JAN 78	
1977 124C		10543	USSR	27 DEC	31 DEC 77	
1977 124D		10558	USSR	27 DEC	25 JAN 78	
1977 124E		10559	USSR	27 DEC	11 JAN 78	
1978 LAUNCHES						
1978 001A	COSMOS 974	10554	USSR	6 JAN	19 JAN 78	
1978 001B		10555	USSR	6 JAN	11 JAN 78	
1978 001C		10556	USSR	6 JAN	25 JAN 78	
1978 001D		10601	USSR	6 JAN	26 JAN 78	
1978 001E		10602	USSR	6 JAN	21 JAN 78	
1978 003A	SOYUZ 27	10560	USSR	10 JAN	16 MAR 78	E*
1978 003B		10583	USSR	10 JAN	13 JAN 78	
1978 006A	COSMOS 984	10592	USSR	13 JAN	26 JAN 78	
1978 006B		10593	USSR	13 JAN	22 JAN 78	
1978 008A	PROGRESS 1	10603	USSR	20 JAN	8 FEB 78	
1978 008B		10604	USSR	20 JAN	23 JAN 78	
1978 009B		10606	USSR	24 JAN	12 MAR 78	
1978 009C		10608	USSR	24 JAN	3 MAR 78	
1978 009D		10610	USSR	24 JAN	8 MAR 78	
1978 010A	COSMOS 986	10607	USSR	24 JAN	7 FEB 78	
1978 010B		10609	USSR	24 JAN	28 JAN 78	
1978 011A	MAO 8	10611	PRC	26 JAN	7 FEB 78	
1978 011B		10612	PRC	26 JAN	6 FEB 78	
1978 012B		10638	US	26 JAN	21 FEB 78	
1978 013A	COSMOS 987	10639	USSR	31 JAN	14 FEB 78	
1978 013B		10640	USSR	31 JAN	4 FEB 78	
1978 013C		10641	USSR	31 JAN	5 FEB 78	
1978 013D		10670	USSR	31 JAN	17 FEB 78	
1978 013E		10671	USSR	31 JAN	20 FEB 78	
1978 014B		10665	JAPAN	4 FEB	12 FEB 79	
1978 015A	COSMOS 988	10666	USSR	8 FEB	20 FEB 78	
1978 015B		10667	USSR	8 FEB	17 FEB 78	
1978 015C		10668	USSR	8 FEB	5 MAR 78	
1978 015D		10678	USSR	8 FEB	22 FEB 78	
1978 015E		10679	USSR	8 FEB	2 MAR 78	
1978 015F		10680	USSR	8 FEB	11 MAR 78	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978 LAUNCHES (CONT.)						
1978 015G		10681	USSR	8 FEB	24 FEB 78	
1978 016B		10724	US	9 FEB	31 AUG 82	
1978 017A	COSMOS 989	10672	USSR	14 FEB	28 FEB 78	
1978 017B		10673	USSR	14 FEB	17 FEB 78	
1978 017C		10690	USSR	14 FEB	1 MAR 78	
1978 017D		10691	USSR	14 FEB	28 FEB 78	
1978 023A	SOYUZ 28	10694	USSR	2 MAR	10 MAR 78	E*
1978 023B		10695	USSR	2 MAR	5 MAR 78	
1978 024B		10697	USSR	2 MAR	10 APR 78	
1978 024C		10698	USSR	2 MAR	9 APR 78	
1978 025A	COSMOS 992	10699	USSR	4 MAR	17 MAR 78	
1978 025B		10700	USSR	4 MAR	10 MAR 78	
1978 025C		10701	USSR	4 MAR	5 MAR 78	
1978 026AN		12197	US	5 MAR	5 FEB 82	
1978 026BW		12229	US	5 MAR	5 MAY 81	
1978 026CF		12238	US	5 MAR	15 FEB 82	
1978 026CG		12239	US	5 MAR	5 FEB 82	
1978 026CJ		12241	US	5 MAR	11 APR 82	
1978 026CR		12248	US	5 MAR	17 AUG 81	
1978 026CU		12251	US	5 MAR	18 FEB 81	
1978 026CV		12252	US	5 MAR	2 JAN 82	
1978 026CW		12253	US	5 MAR	13 DEC 81	
1978 026CY		12255	US	5 MAR	1 JUL 81	
1978 026DB		12258	US	5 MAR	1 JUL 81	
1978 026DH		12264	US	5 MAR	10 DEC 81	
1978 026DQ		12271	US	5 MAR	18 NOV 81	
1978 026DU		12275	US	5 MAR	27 DEC 81	
1978 026EA		12281	US	5 MAR	7 NOV 82	
1978 026EB		12282	US	5 MAR	29 APR 82	
1978 026EF		12286	US	5 MAR	14 OCT 81	
1978 027A	COSMOS 993	10725	USSR	10 MAR	23 MAR 78	
1978 027B		10726	USSR	10 MAR	14 MAR 78	
1978 027C		10727	USSR	10 MAR	12 MAR 78	
1978 027D		10739	USSR	10 MAR	24 MAR 78	
1978 029A		10733	US	16 MAR	11 SEP 78	
1978 029C		10737	US	16 MAR	17 MAR 78	
1978 030A	COSMOS 995	10735	USSR	17 MAR	30 MAR 78	
1978 030B		10736	USSR	17 MAR	20 MAR 78	
1978 032A	COSMOS 997	10770	USSR	30 MAR	30 MAR 78	
1978 032B	COSMOS 998	10771	USSR	30 MAR	30 MAR 78	
1978 032C		10772	USSR	30 MAR	2 APR 78	
1978 032D		10775	USSR	30 MAR	3 APR 78	
1978 033A	COSMOS 999	10773	USSR	30 MAR	12 APR 78	
1978 033B		10774	USSR	30 MAR	3 APR 78	
1978 033C		10798	USSR	30 MAR	13 APR 78	
1978 033D		10799	USSR	30 MAR	16 APR 78	
1978 033E		10800	USSR	30 MAR	24 APR 78	
1978 036A	COSMOS 1001	10783	USSR	4 APR	15 APR 78	
1978 036B		10784	USSR	4 APR	6 APR 78	
1978 036C		10804	USSR	4 APR	1 JUN 78	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978 LAUNCHES (CONT.)						
1978 036D		10805	USSR	4 APR	2 MAY 78	
1978 036E		10806	USSR	4 APR	25 APR 78	
1978 036F		10810	USSR	4 APR	23 MAY 78	
1978 037A	COSMOS 1002	10785	USSR	6 APR	19 APR 78	
1978 037B		10786	USSR	6 APR	10 APR 78	
1978 037C		10790	USSR	6 APR	24 APR 78	
1978 037D		10791	USSR	6 APR	24 APR 78	
1978 040A	COSMOS 1003	10811	USSR	20 APR	4 MAY 78	
1978 040B		10812	USSR	20 APR	23 APR 78	
1978 040C		10813	USSR	20 APR	22 APR 78	
1978 040D		10821	USSR	20 APR	4 MAY 78	
1978 040E		10822	USSR	20 APR	4 MAY 78	
1978 041A	HCMM	10818	US	26 APR	22 DEC 81	
1978 041B		10819	US	26 APR	24 NOV 80	
1978 043A	COSMOS 1004	10846	USSR	5 MAY	18 MAY 78	
1978 043B		10847	USSR	5 MAY	9 MAY 78	
1978 043C		10848	USSR	5 MAY	9 MAY 78	
1978 043D		10849	USSR	5 MAY	9 MAY 78	
1978 043E		10850	USSR	5 MAY	14 MAY 78	
1978 043F		10851	USSR	5 MAY	8 JUN 78	
1978 043G		10852	USSR	5 MAY	16 JUN 78	
1978 046A	COSMOS 1006	10862	USSR	12 MAY	14 MAR 79	
1978 046B		10863	USSR	12 MAY	6 DEC 78	
1978 048A	COSMOS 1007	10895	USSR	16 MAY	29 MAY 78	
1978 048B		10896	USSR	16 MAY	20 MAY 78	
1978 048C		10897	USSR	16 MAY	18 MAY 78	
1978 048D		10921	USSR	16 MAY	31 MAY 78	
1978 048E		10922	USSR	16 MAY	3 JUL 78	
1978 049A	COSMOS 1008	10898	USSR	17 MAY	8 JAN 81	
1978 049B		10899	USSR	17 MAY	6 FEB 81	
1978 049C		10900	USSR	17 MAY	17 DEC 78	
1978 049D		10901	USSR	17 MAY	30 DEC 78	
1978 049E		10902	USSR	17 MAY	17 JUL 78	
1978 049F		10903	USSR	17 MAY	12 SEP 78	
1978 050A	COSMOS 1009	10904	USSR	19 MAY	19 MAY 78	
1978 050B		10905	USSR	19 MAY	5 JUN 78	
1978 050C		10906	USSR	19 MAY	18 JUL 78	
1978 050D		10907	USSR	19 MAY	23 MAY 78	
1978 052A	COSMOS 1010	10915	USSR	23 MAY	5 JUN 78	
1978 052B		10916	USSR	23 MAY	26 MAY 78	
1978 052C		10928	USSR	23 MAY	7 JUN 78	
1978 054A	COSMOS 1012	10919	USSR	25 MAY	7 JUN 78	
1978 054B		10920	USSR	25 MAY	28 MAY 78	
1978 055B		10926	USSR	2 JUN	21 JUN 78	
1978 055C		10927	USSR	2 JUN	17 JUN 78	
1978 055D		10929	USSR	2 JUN	25 JUN 78	
1978 057A	COSMOS 1021	10939	USSR	10 JUN	23 JUN 78	
1978 057B		10940	USSR	10 JUN	13 JUN 78	
1978 057C		10963	USSR	10 JUN	25 JUN 78	
1978 057D		10964	USSR	10 JUN	26 JUN 78	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978 LAUNCHES (CONT.)						
1978 058C		10943	US	10 JUN	14 JUN 78	
1978 059A	COSMOS 1022	10944	USSR	12 JUN	25 JUN 78	
1978 059B		10945	USSR	12 JUN	16 JUN 78	
1978 059C		10965	USSR	12 JUN	28 JUN 78	
1978 059D		10966	USSR	12 JUN	28 JUN 78	
1978 060A		10947	US	14 JUN	23 AUG 81	
1978 060B		10948	US	14 JUN	24 JUL 78	
1978 060C		10951	US	14 JUN	18 JUN 78	
1978 060D		10957	US	14 JUN	18 JUN 78	
1978 060E		10958	US	14 JUN	18 JUN 78	
1978 060F		10959	US	14 JUN	18 JUN 78	
1978 061A	SOYUZ 29	10952	USSR	15 JUN	3 SEP 78	E*
1978 061B		10956	USSR	15 JUN	18 JUN 78	
1978 062C		10955	US	16 JUN	20 AUG 83	
1978 065A	SOYUZ 30	10968	USSR	27 JUN	5 JUL 78	E*
1978 065B		10969	USSR	27 JUN	30 JUN 78	
1978 066B		10971	USSR	28 JUN	31 JUL 78	
1978 066C		10972	USSR	28 JUN	12 JUL 78	
1978 069A	COSMOS 1026	10977	USSR	2 JUL	6 JUL 78	
1978 069B		10978	USSR	2 JUL	7 JUL 78	
1978 070A	PROGRESS 2	10979	USSR	7 JUL	4 AUG 78	
1978 070B		10980	USSR	7 JUL	10 JUL 78	
1978 071B		10982	US	14 JUL	11 DEC 78	
1978 072B		10985	USSR	14 JUL	30 AUG 78	
1978 072C		10986	USSR	14 JUL	23 AUG 78	
1978 073B		10988	USSR	18 JUL	20 JUL 78	
1978 073C		10989	USSR	18 JUL	19 JUL 78	
1978 076A	COSMOS 1028	10995	USSR	5 AUG	4 SEP 78	
1978 076B		10996	USSR	5 AUG	7 AUG 78	
1978 076C		10997	USSR	5 AUG	8 AUG 78	
1978 076D		11014	USSR	5 AUG	4 SEP 78	
1978 077A	PROGRESS 3	10999	USSR	7 AUG	23 AUG 78	
1978 077B		11000	USSR	7 AUG	9 AUG 78	
1978 078A	PIONEER VENUS	11001	US	8 AUG	9 DEC 78	
1978 078A	MULTIPROBE BUS	62033				
1978 078B		11002	US	8 AUG	8 AUG 78	
1978 078D	PIONEER PROBE	12103	US	8 AUG	9 DEC 79	
1978 078E	PIONEER PROBE	12104	US	8 AUG	9 DEC 79	
1978 078F	PIONEER PROBE	12105	US	8 AUG	9 DEC 79	
1978 078G	PIONEER PROBE	12106	US	8 AUG	9 DEC 79	
1978 079B		11005	US	12 AUG	23 OCT 78	
1978 080B		11008	USSR	22 AUG	15 SEP 78	
1978 080C		11009	USSR	22 AUG	6 SEP 78	
1978 081A	SOYUZ 31	11010	USSR	26 AUG	2 NOV 78	E*
1978 081B		11011	USSR	26 AUG	28 AUG 78	
1978 082A	COSMOS 1029	11012	USSR	29 AUG	8 SEP 78	
1978 082B		11013	USSR	29 AUG	3 SEP 78	
1978 082C		11018	USSR	29 AUG	11 SEP 78	
1978 082D		11019	USSR	29 AUG	10 SEP 78	
1978 083B		11016	USSR	6 SEP	8 OCT 78	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978 LAUNCHES (CONT.)						
1978 083C		11017	USSR	6 SEP	21 SEP 78	
1978 084B		11077	USSR	9 SEP	10 SEP 78	
1978 084C		11021	USSR	9 SEP	10 SEP 78	
1978 084D	VENERA 11	12027	USSR	9 SEP	25 DEC 78	
1978 085A	COSMOS 1031	11022	USSR	9 SEP	22 SEP 78	
1978 085B		11023	USSR	9 SEP	14 SEP 78	
1978 085C		11024	USSR	9 SEP	17 APR 79	
1978 085D		11031	USSR	9 SEP	24 SEP 78	
1978 086B		11026	USSR	14 SEP	15 SEP 78	
1978 086C	VENERA 12	12028	USSR	14 SEP	21 DEC 78	
1978 088A	COSMOS 1032	11029	USSR	19 SEP	2 OCT 78	
1978 088B		11030	USSR	19 SEP	22 SEP 78	
1978 088C		11037	USSR	19 SEP	2 OCT 78	
1978 088D		11038	USSR	19 SEP	3 OCT 78	
1978 089A	COSMOS 1033	11039	USSR	3 OCT	16 OCT 78	
1978 089B		11041	USSR	3 OCT	6 OCT 78	
1978 089C		11063	USSR	3 OCT	17 OCT 78	
1978 090A	PROGRESS 4	11040	USSR	3 OCT	26 OCT 78	
1978 090B		11043	USSR	3 OCT	5 OCT 78	
1978 092A	COSMOS 1042	11052	USSR	6 OCT	19 OCT 78	
1978 092B		11053	USSR	6 OCT	10 OCT 78	
1978 092C		11070	USSR	6 OCT	21 OCT 78	
1978 092D		11071	USSR	6 OCT	21 OCT 78	
1978 095B		11058	USSR	13 OCT	28 OCT 78	
1978 095C		11059	USSR	13 OCT	20 OCT 78	
1978 095D		11064	USSR	13 OCT	31 OCT 78	
1978 097A	COSMOS 1044	11065	USSR	17 OCT	30 OCT 78	
1978 097B		11066	USSR	17 OCT	22 OCT 78	
1978 097C		11067	USSR	17 OCT	21 OCT 78	
1978 097D		11068	USSR	17 OCT	21 OCT 78	
1978 097E		11069	USSR	17 OCT	21 OCT 78	
1978 099A	INTERCOSMOS 18	11082	USSR	24 OCT	17 MAR 81	
1978 099B		11083	USSR	24 OCT	13 MAY 81	
1978 099C	MAGION	11110	CZECH	24 OCT	11 SEP 81	
1978 101A	PROGNOZ 7	11088	USSR	30 OCT	22 OCT 80	
1978 101B		11090	USSR	30 OCT	25 NOV 78	
1978 101C		11089	USSR	30 OCT	17 NOV 78	
1978 102A	COSMOS 1046	11098	USSR	1 NOV	13 NOV 78	
1978 102B		11099	USSR	1 NOV	7 NOV 78	
1978 102C		11103	USSR	1 NOV	14 NOV 78	
1978 102D		11104	USSR	1 NOV	15 NOV 78	
1978 102E		11105	USSR	1 NOV	14 NOV 78	
1978 102F		11106	USSR	1 NOV	14 NOV 78	
1978 102G		11107	USSR	1 NOV	14 NOV 78	
1978 103A	HEAO 2	11101	US	13 NOV	25 MAR 82	
1978 103B		11102	US	13 NOV	13 MAR 79	
1978 104A	COSMOS 1047	11108	USSR	15 NOV	28 NOV 78	
1978 104B		11109	USSR	15 NOV	19 NOV 78	
1978 104C		11120	USSR	15 NOV	2 DEC 78	
1978 106B		11116	US	19 NOV	12 DEC 78	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978 LAUNCHES (CONT.)						
1978 106C		11117	US	19 NOV	28 NOV 82	
1978 107A	COSMOS 1049	11118	USSR	21 NOV	4 DEC 78	
1978 107B		11119	USSR	21 NOV	26 NOV 78	
1978 107C		11125	USSR	21 NOV	10 DEC 78	
1978 107D		11126	USSR	21 NOV	8 DEC 78	
1978 107E		11127	USSR	21 NOV	11 DEC 78	
1978 108A	COSMOS 1050	11121	USSR	28 NOV	12 DEC 78	
1978 108B		11122	USSR	28 NOV	8 DEC 78	
1978 108C		11123	USSR	28 NOV	2 JAN 79	
1978 108D		11124	USSR	28 NOV	2 JAN 79	
1978 108E		11143	USSR	28 NOV	15 DEC 78	
1978 110A	COSMOS 1059	11137	USSR	7 DEC	20 DEC 78	
1978 110B		11138	USSR	7 DEC	11 DEC 78	
1978 110C		11157	USSR	7 DEC	23 DEC 78	
1978 110D		11160	USSR	7 DEC	23 DEC 78	
1978 111A	COSMOS 1060	11139	USSR	8 DEC	21 DEC 78	
1978 111B		11140	USSR	8 DEC	13 DEC 78	
1978 113C		11146	US	14 DEC	14 DEC 78	
1978 114A	COSMOS 1061	11148	USSR	14 DEC	27 DEC 78	
1978 114B		11149	USSR	14 DEC	20 DEC 78	
1978 114C		11167	USSR	14 DEC	4 JAN 79	
1978 115A	COSMOS 1062	11150	USSR	15 DEC	20 APR 81	
1978 115B		11151	USSR	15 DEC	20 JUN 81	
1978 115C		11152	USSR	15 DEC	7 MAR 79	
1978 116B		11154	US	16 DEC	23 APR 79	
1978 118B		11159	USSR	19 DEC	21 DEC 78	
1978 120A	COSMOS 1065	11163	USSR	22 DEC	1 AUG 79	
1978 120B		11164	USSR	22 DEC	18 AUG 79	
1978 120C		11243	USSR	22 DEC	1 MAR 79	
1978 120D		11244	USSR	22 DEC	2 MAR 79	
1978 120E		11248	USSR	22 DEC	3 MAR 79	
1978 120F		11249	USSR	22 DEC	1 MAR 79	
1978 120G		11424	USSR	22 DEC	16 JUL 79	
1978 120H		11426	USSR	22 DEC	5 AUG 79	
1978 123A	COSMOS 1068	11169	USSR	26 DEC	8 JAN 79	
1978 123B		11171	USSR	26 DEC	31 DEC 78	
1978 123C		11172	USSR	26 DEC	1 JAN 79	
1978 123D		11226	USSR	26 DEC	9 JAN 79	
1978 123E		11227	USSR	26 DEC	9 JAN 79	
1978 124A	COSMOS 1069	11173	USSR	28 DEC	10 JAN 79	
1978 124B		11174	USSR	28 DEC	5 JAN 79	
1978 124C		11175	USSR	28 DEC	31 DEC 78	
1978 124D		11176	USSR	28 DEC	16 JAN 79	
1978 124E		11228	USSR	28 DEC	11 JAN 79	
1978 124F		11237	USSR	28 DEC	22 JAN 79	
1979 LAUNCHES						
1979 001A	COSMOS 1070	11229	USSR	11 JAN	20 JAN 79	
1979 001B		11230	USSR	11 JAN	16 JAN 79	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979 LAUNCHES (CONT.)						
1979 001C		11231	USSR	11 JAN	18 JAN 79	
1979 001D		11232	USSR	11 JAN	19 JAN 79	
1979 001E		11234	USSR	11 JAN	22 JAN 79	
1979 001F		11245	USSR	11 JAN	27 JAN 79	
1979 001G		11246	USSR	11 JAN	21 JAN 79	
1979 001H		11247	USSR	11 JAN	20 JAN 79	
1979 002A	COSMOS 1071	11233	USSR	13 JAN	26 JAN 79	
1979 002B		11235	USSR	13 JAN	17 JAN 79	
1979 002C		11236	USSR	13 JAN	18 JAN 79	
1979 002D		11250	USSR	13 JAN	27 JAN 79	
1979 002E		11253	USSR	13 JAN	27 JAN 79	
1979 002F		11254	USSR	13 JAN	29 JAN 79	
1979 004B		11241	USSR	18 JAN	31 JAN 79	
1979 004C		11242	USSR	18 JAN	29 JAN 79	
1979 006A	COSMOS 1073	11255	USSR	30 JAN	12 FEB 79	
1979 006B		11257	USSR	30 JAN	3 FEB 79	
1979 006C		11264	USSR	30 JAN	14 FEB 79	
1979 006D		11265	USSR	30 JAN	13 FEB 79	
1979 007B		11258	US	30 JAN	25 FEB 79	
1979 008A	COSMOS 1074	11259	USSR	31 MAR	1 APR 79	
1979 008B		11260	USSR	31 JAN	2 FEB 79	
1979 008C		11315	USSR	31 JAN	10 AUG 79	
1979 008D		11316	USSR	31 JAN	6 JUN 79	
1979 008E		11317	USSR	31 JAN	6 AUG 79	
1979 008F		11318	USSR	31 JAN	30 MAY 79	
1979 008G		11319	USSR	31 JAN	22 JUN 79	
1979 010A	COSMOS 1075	11262	USSR	8 FEB	19 OCT 81	
1979 010B		11263	USSR	8 FEB	29 AUG 80	
1979 013B		11271	US	18 FEB	19 SEP 81	
1979 013C		12405	US	18 FEB	14 AUG 82	
1979 014B		11280	JAPAN	21 FEB	8 FEB 82	
1979 015B		11274	USSR	21 FEB	22 FEB 79	
1979 015C		11275	USSR	21 FEB	22 FEB 79	
1979 016A	COSMOS 1078	11276	USSR	22 FEB	2 MAR 79	
1979 016B		11277	USSR	22 FEB	24 FEB 79	
1979 016C		11287	USSR	22 FEB	2 MAR 79	
1979 017B		11279	US	24 FEB	11 OCT 83	
1979 017C		11291	US	24 FEB	29 JUL 79	
1979 017D		11322	US	24 FEB	27 FEB 82	
1979 018A	SOYUZ 32	11281	USSR	25 FEB	13 JUN 79	
1979 018B		11282	USSR	25 FEB	27 FEB 79	
1979 019A	COSMOS 1079	11283	USSR	27 FEB	11 MAR 79	
1979 019B		11284	USSR	27 FEB	2 MAR 79	
1979 020C		11323	USSR	27 FEB	2 SEP 80	
1979 022A	PROGRESS 5	11292	USSR	12 MAR	5 APR 79	
1979 022B		11293	USSR	12 MAR	14 MAR 79	
1979 023A	COSMOS 1080	11294	USSR	14 MAR	28 MAR 79	
1979 023B		11295	USSR	14 MAR	16 MAR 79	
1979 023C		11310	USSR	14 MAR	27 MAR 79	
1979 023D		11311	USSR	14 MAR	27 MAR 79	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979 LAUNCHES (CONT.)						
1979 023E		11312	USSR	14 MAR	28 MAR 79	
1979 025A		11305	US	16 MAR	22 SEP 79	
1979 025C		11307	US	16 MAR	18 MAR 79	
1979 027A	COSMOS 1090	11313	USSR	31 MAR	13 APR 79	
1979 027B		11314	USSR	31 MAR	5 APR 79	
1979 029A	SOYUZ 33	11324	USSR	10 APR	12 APR 79	
1979 029B		11325	USSR	10 APR	13 APR 79	
1979 031B		11329	USSR	12 APR	8 MAY 79	
1979 031C		11330	USSR	12 APR	5 MAY 79	
1979 033A	COSMOS 1094	11333	USSR	18 APR	7 NOV 79	
1979 033B		11334	USSR	18 APR	18 APR 79	
1979 033C		11367	USSR	18 APR	17 JUN 79	
1979 034A	COSMOS 1095	11335	USSR	20 APR	4 MAY 79	
1979 034B		11336	USSR	20 APR	27 APR 79	
1979 034C		11337	USSR	20 APR	1 MAY 79	
1979 034D		11351	USSR	20 APR	18 NOV 79	
1979 034E		11352	USSR	20 APR	21 JUN 79	
1979 034F		11354	USSR	20 APR	10 JUL 79	
1979 034G		11355	USSR	20 APR	1 JUN 79	
1979 035B		11344	USSR	25 APR	26 APR 79	
1979 035C		11345	USSR	25 APR	25 APR 79	
1979 035D		11552	USSR	25 APR	1 JAN 80	
1979 036A	COSMOS 1096	11346	USSR	25 APR	24 NOV 79	
1979 036B		11347	USSR	25 APR	25 APR 79	
1979 037A	COSMOS 1097	11348	USSR	27 APR	27 MAY 79	
1979 037B		11349	USSR	27 APR	30 APR 79	
1979 039A	PROGRESS 6	11356	USSR	13 MAY	9 JUN 79	
1979 039B		11357	USSR	13 MAY	15 MAY 79	
1979 040A	COSMOS 1098	11358	USSR	15 MAY	28 MAY 79	
1979 040B		11359	USSR	15 MAY	19 MAY 79	
1979 040C		11370	USSR	15 MAY	30 MAY 79	
1979 041A	COSMOS 1099	11360	USSR	17 MAY	30 MAY 79	
1979 041B		11361	USSR	17 MAY	21 MAY 79	
1979 041C		11371	USSR	17 MAY	22 JUN 79	
1979 041D		11373	USSR	17 MAY	21 JUN 79	
1979 041E		11374	USSR	17 MAY	2 JUN 79	
1979 042A	COSMOS 1100	11362	USSR	22 MAY	23 MAY 79	
1979 042B	COSMOS 1101	11363	USSR	22 MAY	23 MAY 79	
1979 042C		11364	USSR	22 MAY	26 MAY 79	
1979 042D		11365	USSR	22 MAY	16 JUN 79	
1979 042E		11366	USSR	22 MAY	25 MAY 79	
1979 043A	COSMOS 1102	11368	USSR	25 MAY	7 JUN 79	
1979 043B		11369	USSR	25 MAY	29 MAY 79	
1979 043C		11375	USSR	25 MAY	6 JUN 79	
1979 043D		11390	USSR	25 MAY	13 JUL 79	
1979 043E		11391	USSR	25 MAY	3 JUN 79	
1979 044A		11372	US	28 MAY	26 AUG 79	
1979 045A	COSMOS 1103	11376	USSR	31 MAY	14 JUN 79	
1979 045B		11377	USSR	31 MAY	24 JUN 79	
1979 045C		11380	USSR	31 MAY	5 JUN 79	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979 LAUNCHES (CONT.)						
1979 045D		11381	USSR	31 MAY	8 JUN 79	
1979 045E		11402	USSR	31 MAY	27 JUL 79	
1979 045F		11406	USSR	31 MAY	9 JUL 79	
1979 045G		11407	USSR	31 MAY	15 NOV 79	
1979 048B		11385	USSR	5 JUN	24 JUN 79	
1979 048C		11386	USSR	5 JUN	21 JUN 79	
1979 049A	SOYUZ 34	11387	USSR	6 JUN	19 AUG 79	
1979 049B		11388	USSR	6 JUN	9 JUN 79	
1979 050E		11411	US	6 JUN	8 JUN 82	
1979 050F		11412	US	6 JUN	23 FEB 82	
1979 051B		11393	USSR	7 JUN	17 FEB 82	
1979 052A	COSMOS 1105	11394	USSR	8 JUN	21 JUN 79	
1979 052B		11395	USSR	8 JUN	12 JUN 79	
1979 052C		11396	USSR	8 JUN	8 JUN 79	
1979 052D		11409	USSR	8 JUN	28 JUL 79	
1979 053B		11398	US	10 JUN	11 JUN 79	
1979 054A	COSMOS 1106	11399	USSR	12 JUN	25 JUN 79	
1979 054B		11400	USSR	12 JUN	15 JUN 79	
1979 054C		11401	USSR	12 JUN	7 AUG 79	
1979 054D		11415	USSR	12 JUN	30 JUN 79	
1979 055A	COSMOS 1107	11404	USSR	15 JUN	29 JUN 79	
1979 055B		11405	USSR	15 JUN	20 JUN 79	
1979 055C		11420	USSR	15 JUN	2 JUL 79	
1979 055D		11428	USSR	15 JUN	3 JUL 79	
1979 056A	COSMOS 1108	11413	USSR	22 JUN	5 JUL 79	
1979 056B		11414	USSR	22 JUN	25 JUN 79	
1979 056C		11437	USSR	22 JUN	8 JUL 79	
1979 056D		11438	USSR	22 JUN	11 JUL 79	
1979 056E		11439	USSR	22 JUN	21 JUL 79	
1979 058B		11418	USSR	27 JUN	26 JUL 79	
1979 058C		11423	USSR	27 JUN	13 JUL 79	
1979 059A	PROGRESS 7	11421	USSR	28 JUN	20 JUL 79	
1979 059B		11422	USSR	28 JUN	30 JUN 79	
1979 061A	COSMOS 1111	11429	USSR	29 JUN	14 JUL 79	
1979 061B		11430	USSR	29 JUN	20 JUL 79	
1979 061C		11453	USSR	29 JUN	5 DEC 79	
1979 061D		11454	USSR	29 JUN	25 AUG 79	
1979 061E		11455	USSR	29 JUN	30 JUL 79	
1979 061F		11456	USSR	29 JUN	25 AUG 79	
1979 062B		11441	USSR	5 JUL	7 JUL 79	
1979 062C		11442	USSR	5 JUL	7 JUL 79	
1979 062E		14070	USSR	5 JUL	28 APR 84	
1979 063A	COSMOS 1112	11443	USSR	6 JUL	21 JAN 80	
1979 063B		11444	USSR	6 JUL	8 JAN 80	BR*
1979 063C		11445	USSR	6 JUL	8 JUL 79	
1979 063D		11446	USSR	6 JUL	1 AUG 79	
1979 063E		11514	USSR	6 JUL	23 SEP 79	
1979 063F		11535	USSR	6 JUL	20 OCT 79	
1979 063G		11557	USSR	6 JUL	21 OCT 79	
1979 063H		11583	USSR	6 JUL	5 NOV 79	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979 LAUNCHES (CONT.)						
1979 063J		11584	USSR	6 JUL	5 NOV 79	
1979 063K		11594	USSR	6 JUL	7 NOV 79	
1979 063L		11595	USSR	6 JUL	11 NOV 79	
1979 063M		11596	USSR	6 JUL	5 JAN 80	
1979 063N		11597	USSR	6 JUL	20 FEB 80	
1979 063P		11598	USSR	6 JUL	1 NOV 79	
1979 063Q		11599	USSR	6 JUL	7 DEC 79	
1979 063R		11603	USSR	6 JUL	12 NOV 79	
1979 063S		11617	USSR	6 JUL	5 DEC 79	
1979 063T		11618	USSR	6 JUL	22 NOV 79	
1979 063U		11619	USSR	6 JUL	5 DEC 79	
1979 063V		11620	USSR	6 JUL	30 NOV 79	
1979 063W		11625	USSR	6 JUL	4 DEC 79	
1979 063X		11626	USSR	6 JUL	4 DEC 79	
1979 063Y		11627	USSR	6 JUL	5 DEC 79	
1979 063Z		11628	USSR	6 JUL	7 DEC 79	
1979 063AA		11643	USSR	6 JUL	21 DEC 79	
1979 063AB		11644	USSR	6 JUL	21 DEC 79	
1979 064A	COSMOS 1113	11447	USSR	10 JUL	23 JUL 79	
1979 064B		11448	USSR	10 JUL	15 JUL 79	
1979 064C		11459	USSR	10 JUL	26 JUL 79	
1979 064D		11460	USSR	10 JUL	27 JUL 79	
1979 064E		11461	USSR	10 JUL	25 JUL 79	
1979 065A	COSMOS 1114	11449	USSR	11 JUL	26 DEC 81	
1979 065B		11450	USSR	11 JUL	5 FEB 82	
1979 066A	COSMOS 1115	11451	USSR	13 JUL	26 JUL 79	
1979 066B		11452	USSR	13 JUL	17 JUL 79	
1979 066C		11462	USSR	13 JUL	20 AUG 79	
1979 068A	COSMOS 1117	11463	USSR	25 JUL	7 AUG 79	
1979 068B		11464	USSR	25 JUL	29 JUL 79	
1979 068C		11481	USSR	25 JUL	11 AUG 79	
1979 068D		11482	USSR	25 JUL	10 AUG 79	
1979 068E		11483	USSR	25 JUL	11 AUG 79	
1979 069A	COSMOS 1118	11465	USSR	27 JUL	9 AUG 79	
1979 069B		11466	USSR	27 JUL	31 JUL 79	
1979 069C		11477	USSR	27 JUL	7 AUG 79	
1979 070B		11475	USSR	31 JUL	20 AUG 79	
1979 070C		11476	USSR	31 JUL	14 AUG 79	
1979 071A	COSMOS 1119	11478	USSR	3 AUG	18 AUG 79	
1979 071B		11479	USSR	3 AUG	7 AUG 79	
1979 072B		11490	US	10 AUG	10 AUG 79	
1979 073A	COSMOS 1120	11485	USSR	11 AUG	24 AUG 79	
1979 073B		11486	USSR	11 AUG	15 AUG 79	
1979 073C		11505	USSR	11 AUG	28 AUG 79	
1979 073D		11506	USSR	11 AUG	31 AUG 79	
1979 074A	COSMOC 1121	11487	USSR	14 AUG	13 SEP 79	
1979 074B		11488	USSR	14 AUG	18 AUG 79	
1979 075A	COSMOS 1122	11491	USSR	17 AUG	30 AUG 79	
1979 075B		11492	USSR	17 AUG	20 AUG 79	
1979 075C		11498	USSR	17 AUG	27 AUG 79	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979 LAUNCHES (CONT.)						
1979 075D		11499	USSR	17 AUG	25 AUG 79	
1979 075E		11507	USSR	17 AUG	27 AUG 79	
1979 076A	COSMOS 1123	11496	USSR	21 AUG	3 SEP 79	
1979 076B		11497	USSR	21 AUG	24 AUG 79	
1979 076C		11517	USSR	21 AUG	6 SEP 79	
1979 076D		11518	USSR	21 AUG	6 SEP 79	
1979 076E		11519	USSR	21 AUG	7 SEP 79	
1979 077B		11512	USSR	28 AUG	28 SEP 79	
1979 077C		11513	USSR	28 AUG	11 SEP 79	
1979 079A	COSMOS 1126	11515	USSR	31 AUG	14 SEP 79	
1979 079B		11516	USSR	31 AUG	9 SEP 79	
1979 079C		11524	USSR	31 AUG	26 OCT 79	
1979 079D		11525	USSR	31 AUG	16 FEB 80	
1979 079E		11526	USSR	31 AUG	14 FEB 80	
1979 079F		11527	USSR	31 AUG	16 SEP 79	
1979 079G		11528	USSR	31 AUG	17 OCT 79	
1979 080A	COSMOS 1127	11520	USSR	5 SEP	18 SEP 79	
1979 080B		11521	USSR	5 SEP	10 SEP 79	
1979 080C		11522	USSR	5 SEP	6 SEP 79	
1979 080D		11531	USSR	5 SEP	30 SEP 79	
1979 081A	COSMOS 1128	11529	USSR	14 SEP	27 SEP 79	
1979 081B		11530	USSR	14 SEP	17 SEP 79	
1979 081C		11547	USSR	14 SEP	27 SEP 79	
1979 082A	HEAO 3	11532	US	20 SEP	7 DEC 81	
1979 082B		11533	US	20 SEP	13 NOV 79	
1979 083A	COSMOS 1129	11536	USSR	25 SEP	14 OCT 79	
1979 083B		11537	USSR	25 SEP	6 OCT 79	
1979 083C		11579	USSR	25 SEP	31 OCT 79	
1979 083D		11580	USSR	25 SEP	18 OCT 79	
1979 083E		11582	USSR	25 SEP	16 MAR 80	
1979 085A	COSMOS 1138	11548	USSR	28 SEP	11 OCT 79	
1979 085B		11549	USSR	28 SEP	5 OCT 79	
1979 085C		11575	USSR	28 SEP	2 NOV 79	
1979 085D		11576	USSR	28 SEP	13 OCT 79	
1979 085E		11577	USSR	28 SEP	12 NOV 79	
1979 085F		11578	USSR	28 SEP	26 FEB 80	
1979 086B		11559	US	1 OCT	7 OCT 79	
1979 087B		11562	USSR	3 OCT	5 OCT 79	
1979 088A	COSMOS 1139	11564	USSR	5 OCT	18 OCT 79	
1979 088B		11565	USSR	5 OCT	11 OCT 79	
1979 088C		11566	USSR	5 OCT	7 OCT 79	
1979 090D		11588	USSR	16 OCT	7 SEP 82	
1979 091B		11590	USSR	20 OCT	11 NOV 79	
1979 091C		11591	USSR	20 OCT	10 NOV 79	
1979 092A	COSMOS 1142	11592	USSR	22 OCT	4 NOV 79	
1979 092B		11593	USSR	22 OCT	28 OCT 79	
1979 092C		11613	USSR	22 OCT	25 MAR 80	
1979 092D		11614	USSR	22 OCT	1 DEC 79	
1979 092E		11615	USSR	22 OCT	21 NOV 79	
1979 092F		11616	USSR	22 OCT	9 MAR 80	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979 LAUNCHES (CONT.)						
1979 094A	MAGSAT	11604	US	30 OCT	11 JUN 80	
1979 094B		11606	US	30 OCT	27 JAN 80	
1979 094C		11607	US	30 OCT	22 FEB 80	
1979 096A	INTERCOSMOS 20	11609	USSR	1 NOV	5 MAR 81	
1979 096B		11610	USSR	1 NOV	26 MAR 81	
1979 097A	COSMOS 1144	11611	USSR	2 NOV	4 DEC 79	
1979 097B		11612	USSR	2 NOV	5 NOV 79	
1979 098D		11624	US	21 NOV	21 NOV 79	
1979 100A	COSMOS 1146	11632	USSR	5 DEC	25 NOV 81	
1979 100B		11633	USSR	5 DEC	31 JAN 81	
1979 101B		11636	US	7 DEC	9 APR 80	
1979 101C		11637	US	7 DEC	27 MAR 80	
1979 102A	COSMOS 1147	11638	USSR	12 DEC	26 DEC 79	
1979 102B		11639	USSR	12 DEC	19 DEC 79	
1979 102C		11646	USSR	12 DEC	15 JAN 80	
1979 102D		11647	USSR	12 DEC	9 MAR 80	
1979 103A	SOYUZ T-1	11640	USSR	16 DEC	25 MAR 80	
1979 103B		11641	USSR	16 DEC	18 DEC 79	
1979 103C		11642	USSR	16 DEC	18 DEC 79	
1979 104B		11659	ESA	24 DEC	14 NOV 82	
1979 105B		11651	USSR	28 DEC	30 DEC 79	
1979 105C		11660	USSR	28 DEC	15 APR 82	
1979 105D		11661	USSR	28 DEC	3 DEC 84	
1979 106A	COSMOS 1148	11649	USSR	28 DEC	10 JAN 80	
1979 106B		11650	USSR	28 DEC	31 DEC 79	
1979 106C		11654	USSR	28 DEC	10 JAN 80	
1979 106D		11655	USSR	28 DEC	15 JAN 80	
1979 106E		11657	USSR	28 DEC	15 JAN 80	
1979 106F		11658	USSR	28 DEC	11 JAN 80	
1980 LAUNCHES						
1980 001A	COSMOS 1149	11652	USSR	9 JAN	23 JAN 80	
1980 001B		11653	USSR	9 JAN	17 JAN 80	
1980 001C		11656	USSR	9 JAN	19 JAN 80	
1980 001D		11673	USSR	9 JAN	16 MAY 80	
1980 001E		11674	USSR	9 JAN	18 FEB 80	
1980 001F		11675	USSR	9 JAN	11 JUN 80	
1980 001G		11677	USSR	9 JAN	27 JAN 80	
1980 002B		11663	USSR	11 JAN	28 JAN 80	
1980 002C		11664	USSR	11 JAN	24 JAN 80	
1980 002D		11665	USSR	11 JAN	11 JAN 80	
1980 002E		11666	USSR	11 JAN	21 JAN 80	
1980 006A	COSMOS 1152	11678	USSR	24 JAN	6 FEB 80	
1980 006B		11679	USSR	24 JAN	28 JAN 80	
1980 009A	COSMOS 1155	11685	USSR	7 FEB	21 FEB 80	
1980 009B		11686	USSR	7 FEB	16 FEB 80	
1980 009C		11711	USSR	7 FEB	13 MAR 80	
1980 009D		11712	USSR	7 FEB	2 MAR 80	
1980 009E		11717	USSR	7 FEB	10 APR 80	

DECAYED OBJECTS

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980 LAUNCHES (CONT.)						
1980 010A		11687	US	7 FEB	30 OCT 82	
1980 010B		11688	US	7 FEB	13 MAR 80	
1980 010C		11689	US	7 FEB	8 FEB 80	
1980 012K		11725	USSR	11 FEB	5 MAR 80	
1980 013A	COSMOS 1164	11700	USSR	12 FEB	12 JAN 81	
1980 013B		11701	USSR	12 FEB	10 MAR 80	
1980 013C		11702	USSR	12 FEB	3 APR 80	
1980 013D		11949	USSR	12 FEB	8 NOV 80	
1980 015A	TANSEI 4	11706	JAPAN	17 FEB	12 MAY 83	
1980 015C		11810	JAPAN	17 FEB	27 AUG 80	
1980 015D		11948	JAPAN	17 FEB	8 OCT 80	
1980 016B		11709	USSR	20 FEB	22 FEB 80	
1980 016C		11710	USSR	20 FEB	22 FEB 80	
1980 016E		11801	USSR	20 FEB	12 JAN 81	
1980 016F		11802	USSR	20 FEB	15 APR 82	
1980 017A	COSMOS 1165	11713	USSR	21 FEB	5 MAR 80	
1980 017B		11714	USSR	21 FEB	25 FEB 80	
1980 017C		11726	USSR	21 FEB	7 MAR 80	
1980 017D		11727	USSR	21 FEB	6 MAR 80	
1980 018B		11716	JAPAN	22 FEB	28 FEB 80	
1980 018C		11718	JAPAN	22 FEB	19 JUL 81	
1980 018D		13262	JAPAN	22 FEB	8 JUN 82	
1980 020A	COSMOS 1166	11722	USSR	4 MAR	18 MAR 80	
1980 020B		11723	USSR	4 MAR	13 MAR 80	
1980 020C		11724	USSR	4 MAR	10 MAR 80	
1980 020D		11737	USSR	4 MAR	4 SEP 80	
1980 020E		11738	USSR	4 MAR	28 APR 80	
1980 020F		11739	USSR	4 MAR	9 APR 80	
1980 021A	COSMOS 1167	11729	USSR	14 MAR	1 OCT 81	
1980 021B		11730	USSR	14 MAR	14 MAR 80	
1980 021C		12605	USSR	14 MAR	6 AUG 81	
1980 021D		12606	USSR	14 MAR	1 DEC 82	
1980 021E		12607	USSR	14 MAR	22 AUG 81	
1980 021F		12608	USSR	14 MAR	12 AUG 81	
1980 021G		12609	USSR	14 MAR	15 OCT 81	
1980 021H		12610	USSR	14 MAR	14 DEC 81	
1980 021J		12611	USSR	14 MAR	22 AUG 81	
1980 021K		12612	USSR	14 MAR	16 AUG 81	
1980 021L		12613	USSR	14 MAR	2 AUG 81	
1980 021M		12615	USSR	14 MAR	27 AUG 81	
1980 021N		12616	USSR	14 MAR	27 AUG 81	
1980 023A	COSMOS 1169	11741	USSR	27 MAR	3 MAR 83	
1980 023B		11742	USSR	27 MAR	4 NOV 81	
1980 024A	PROGRESS 8	11743	USSR	27 MAR	26 APR 80	
1980 024B		11744	USSR	27 MAR	29 MAR 80	
1980 025A	COSMOS 1170	11747	USSR	1 APR	12 APR 80	
1980 025B		11748	USSR	1 APR	5 APR 80	
1980 025C		11749	USSR	1 APR	3 APR 80	
1980 025D		11755	USSR	1 APR	14 APR 80	
1980 025E		11756	USSR	1 APR	13 APR 80	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980 LAUNCHES (CONT.)						
1980 025F		11757	USSR	1 APR	13 APR 80	
1980 027A	SOYUZ 35	11753	USSR	9 APR	3 JUN 80	
1980 027B		11754	USSR	9 APR	11 APR 80	
1980 028B		11759	USSR	12 APR	26 APR 80	
1980 028C		11760	USSR	12 APR	8 MAY 80	
1980 028D		11761	USSR	12 APR	20 APR 80	
1980 029A	COSMOS 1173	11763	USSR	17 APR	28 APR 80	
1980 029B		11764	USSR	17 APR	21 APR 80	
1980 029C		11786	USSR	17 APR	30 APR 80	
1980 029D		11787	USSR	17 APR	30 APR 80	
1980 030B		11766	USSR	18 APR	20 APR 80	
1980 030C		11771	USSR	18 APR	30 DEC 80	
1980 030D		11772	USSR	18 APR	19 APR 81	
1980 030E		11773	USSR	18 APR	17 JAN 81	
1980 030F		11774	USSR	18 APR	17 APR 81	
1980 030H		11776	USSR	18 APR	17 FEB 82	
1980 030M		11780	USSR	18 APR	17 FEB 81	
1980 030Q		12098	USSR	18 APR	1 DEC 82	
1980 030S		12344	USSR	18 APR	8 SEP 82	
1980 030U		12346	USSR	18 APR	24 APR 82	
1980 030X		12349	USSR	18 APR	15 DEC 82	
1980 030Z		12355	USSR	18 APR	3 DEC 81	
1980 030AA		12356	USSR	18 APR	21 MAR 82	
1980 030AC		12358	USSR	18 APR	25 OCT 82	
1980 030AD		12359	USSR	18 APR	17 AUG 81	
1980 030AF		12361	USSR	18 APR	27 JUL 81	
1980 030AG		12362	USSR	18 APR	18 APR 82	
1980 030AR		13945	USSR	18 APR	30 SEP 83	
1980 031A	COSMOS 1175	11767	USSR	18 APR	28 MAY 80	
1980 031B		11768	USSR	18 APR	2 MAY 80	
1980 031C		11769	USSR	18 APR	29 SEP 80	
1980 031D		11770	USSR	18 APR	30 MAY 80	
1980 033A	PROGRESS 9	11784	USSR	27 APR	22 MAY 80	
1980 033B		11785	USSR	29 APR	29 APR 80	
1980 034B		11968	USSR	29 APR	4 OCT 80	
1980 034C		11969	USSR	29 APR	12 SEP 80	
1980 035A	COSMOS 1177	11789	USSR	29 APR	12 JUN 80	
1980 035B		11790	USSR	29 APR	2 MAY 80	
1980 035C		11840	USSR	29 APR	16 JUN 80	
1980 036A	COSMOS 1178	11793	USSR	7 MAY	22 MAY 80	
1980 036B		11794	USSR	7 MAY	14 MAY 80	
1980 036C		11795	USSR	7 MAY	12 MAY 80	
1980 036D		11805	USSR	7 MAY	7 JUL 80	
1980 036E		11806	USSR	7 MAY	16 NOV 80	
1980 036F		11807	USSR	7 MAY	22 JUN 80	
1980 037B		11797	USSR	14 MAY	11 JAN 83	
1980 038A	COSMOS 1180	11798	USSR	15 MAY	26 MAY 80	
1980 038B		11799	USSR	15 MAY	23 MAY 80	
1980 038C		11800	USSR	15 MAY	17 MAY 80	
1980 038D		11813	USSR	15 MAY	30 MAY 80	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980 LAUNCHES (CONT.)						
1980 038E		11814	USSR	15 MAY	31 MAY 80	
1980 038F		11815	USSR	15 MAY	31 MAY 80	
1980 040A	COSMOS 1182	11808	USSR	23 MAY	5 JUN 80	
1980 040B		11809	USSR	23 MAY	26 MAY 80	
1980 040C		11823	USSR	10 JUN	10 JUN 80	
1980 040D		11824	USSR	23 MAY	9 JUN 80	
1980 041A	SOYUZ 36	11811	USSR	26 MAY	31 JUL 80	
1980 041B		11812	USSR	26 MAY	29 MAY 80	
1980 042A	COSMOS 1183	11816	USSR	28 MAY	11 JUN 80	
1980 042B		11817	USSR	28 MAY	5 JUN 80	
1980 042C		11818	USSR	28 MAY	9 JUN 80	
1980 042D		11833	USSR	28 MAY	13 JUL 80	
1980 042E		11834	USSR	28 MAY	3 AUG 80	
1980 042F		11835	USSR	28 MAY	14 JUN 80	
1980 042G		11836	USSR	28 MAY	4 DEC 80	
1980 043A	NOAA 8	11819	US	29 MAY	3 MAY 81	
1980 043B		11820	US	29 MAY	11 SEP 80	
1980 043C		11874	US	29 MAY	27 AUG 80	
1980 045A	SOYUZ T-2	11825	USSR	5 JUN	9 JUN 80	
1980 045B		11826	USSR	5 JUN	7 JUN 80	
1980 046A	COSMOS 1185	11827	USSR	6 JUN	20 JUN 80	
1980 046B		11828	USSR	6 JUN	11 JUN 80	
1980 046C		11853	USSR	6 JUN	4 JUL 80	
1980 046D		11854	USSR	6 JUN	25 JUN 80	
1980 047A	COSMOS 1186	11829	USSR	6 JUN	1 JAN 82	
1980 047B		11830	USSR	6 JUN	16 DEC 81	BS*
1980 047C		11831	USSR	6 JUN	17 JUN 80	
1980 047D		11912	USSR	6 JUN	24 SEP 80	
1980 047E		11913	USSR	6 JUN	14 SEP 80	
1980 047F		12407	USSR	6 JUN	3 MAY 81	
1980 047G		12408	USSR	6 JUN	3 MAY 81	
1980 047H		12412	USSR	6 JUN	1 MAY 81	
1980 047J		12413	USSR	6 JUN	3 MAY 81	
1980 047K		12414	USSR	6 JUN	3 MAY 81	
1980 047L		12415	USSR	6 JUN	3 MAY 81	
1980 047M		12416	USSR	6 JUN	3 MAY 81	
1980 047N		12422	USSR	6 JUN	3 MAY 81	
1980 047P		12453	USSR	6 JUN	28 MAY 81	
1980 047Q		12459	USSR	6 JUN	20 MAY 81	
1980 047R		12480	USSR	6 JUN	22 JUN 81	
1980 047S		12481	USSR	6 JUN	18 JUN 81	
1980 047T		12482	USSR	6 JUN	15 JUN 81	
1980 047U		12483	USSR	6 JUN	22 JUN 81	
1980 047V		12484	USSR	6 JUN	18 JUN 81	
1980 047W		12485	USSR	6 JUN	17 JUN 81	
1980 047X		12486	USSR	6 JUN	29 SEP 81	
1980 047Y		12487	USSR	6 JUN	14 JUN 81	
1980 047Z		12490	USSR	6 JUN	20 JUN 81	
1980 047AA		12509	USSR	6 JUN	14 JUN 81	
1980 047AB		12510	USSR	6 JUN	20 JUN 81	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980 LAUNCHES (CONT.)						
1980 047AC		12511	USSR	6 JUN	13 JUL 81	
1980 048A		11837	USSR	12 JUN	26 JUN 80	
1980 048B		11838	USSR	12 JUN	17 JUN 80	
1980 048C		11839	USSR	12 JUN	17 JUN 80	
1980 048D		11865	USSR	12 JUN	29 JUN 80	
1980 048E		11866	USSR	12 JUN	18 JUL 80	
1980 049B		11842	USSR	14 JUN	15 JUN 80	
1980 049C		11843	USSR	14 JUN	14 JUN 80	
1980 049D		11859	USSR	14 JUN	20 APR 82	
1980 049E		11860	USSR	14 JUN	22 MAR 82	
1980 050C		11845	USSR	14 JUN	17 JUL 80	
1980 050D		11846	USSR	14 JUN	6 JUL 80	
1980 052A		11850	US	18 JUN	6 MAR 81	
1980 052B		11851	US	18 JUN	20 JUN 80	
1980 053B		11857	USSR	21 JUN	28 JUL 80	
1980 053C		11858	USSR	21 JUN	25 JUL 80	
1980 054A	COSMOS 1189	11863	USSR	26 JUN	10 JUL 80	
1980 054B		11864	USSR	26 JUN	1 JUL 80	
1980 054C		11886	USSR	26 JUN	13 JUL 80	
1980 054D		11887	USSR	26 JUN	4 AUG 80	
1980 054E		11889	USSR	26 JUN	18 JUL 80	
1980 055A	PROGRESS 10	11867	USSR	29 JUN	19 JUL 80	
1980 055B		11868	USSR	29 JUN	2 JUL 80	
1980 057B		11872	USSR	2 JUL	2 AUG 80	
1980 057C		11873	USSR	2 JUL	31 JUL 80	
1980 059A	COSMOS 1200	11884	USSR	9 JUL	23 JUL 80	
1980 059B		11885	USSR	9 JUL	15 JUL 80	
1980 059C		11901	USSR	9 JUL	30 JUL 80	
1980 059D		11902	USSR	9 JUL	17 AUG 80	
1980 059E		11903	USSR	9 JUL	27 JUL 80	
1980 059F		11904	USSR	9 JUL	28 JUL 80	
1980 060B		11891	USSR	14 JUL	16 JUL 80	
1980 060C		11892	USSR	14 JUL	15 JUL 80	
1980 060D		11914	USSR	14 JUL	20 APR 82	
1980 060E		11923	USSR	14 JUL	2 APR 81	
1980 061A	COSMOS 1201	11894	USSR	15 JUL	28 JUL 80	
1980 061B		11895	USSR	15 JUL	18 JUL 80	
1980 061C		11910	USSR	15 JUL	31 JUL 80	
1980 061D		11911	USSR	15 JUL	2 AUG 80	
1980 062A	ROHINI 1	11899	INDIA	18 JUL	20 MAY 81	
1980 062B		11900	INDIA	18 JUL	23 JUL 81	
1980 063B		11897	USSR	18 JUL	2 AUG 80	
1980 063C		11898	USSR	18 JUL	4 AUG 80	
1980 064A	SOYUZ 37	11905	USSR	23 JUL	11 OCT 80	
1980 064B		11906	USSR	23 JUL	27 JUL 80	
1980 065A	COSMOS 1202	11907	USSR	24 JUL	7 AUG 80	
1980 065B		11908	USSR	24 JUL	29 JUL 80	
1980 065C		11920	USSR	24 JUL	23 AUG 80	
1980 065D		11921	USSR	24 JUL	10 AUG 80	
1980 065E		11922	USSR	24 JUL	11 AUG 80	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980 LAUNCHES (CONT.)						
1980 066A	COSMOS 1203	11915	USSR	31 JUL	14 AUG 80	
1980 066B		11916	USSR	31 JUL	6 AUG 80	
1980 066C		11919	USSR	31 JUL	2 AUG 80	
1980 066D		11927	USSR	31 JUL	30 AUG 80	
1980 066E		11928	USSR	31 JUL	21 AUG 80	
1980 066F		11929	USSR	31 JUL	19 AUG 80	
1980 067A	COSMOS 1204	11917	USSR	31 JUL	23 FEB 81	
1980 067B		11918	USSR	31 JUL	13 FEB 81	BU*
1980 067C		11960	USSR	31 JUL	11 OCT 80	
1980 067D		11961	USSR	31 JUL	14 OCT 80	
1980 067E		11987	USSR	31 JUL	31 OCT 80	
1980 067F		11988	USSR	31 JUL	24 OCT 80	
1980 067G		11989	USSR	31 JUL	24 OCT 80	
1980 067H		11992	USSR	31 JUL	26 OCT 80	
1980 067J		12010	USSR	31 JUL	3 NOV 80	
1980 067K		12011	USSR	31 JUL	3 NOV 80	
1980 067L		12014	USSR	31 JUL	4 NOV 80	
1980 067M		12015	USSR	31 JUL	10 NOV 80	
1980 067N		12036	USSR	31 JUL	27 NOV 80	
1980 067P		12037	USSR	31 JUL	18 NOV 80	
1980 067Q		12038	USSR	31 JUL	18 NOV 80	
1980 067R		12047	USSR	31 JUL	23 NOV 80	
1980 067S		12048	USSR	31 JUL	3 DEC 80	
1980 067T		12049	USSR	31 JUL	19 NOV 80	
1980 067U		12052	USSR	31 JUL	17 NOV 80	
1980 067V		12053	USSR	31 JUL	17 NOV 80	
1980 067W		12056	USSR	31 JUL	16 NOV 80	
1980 067X		12057	USSR	31 JUL	23 NOV 80	
1980 067Y		12074	USSR	31 JUL	14 DEC 80	
1980 067Z		12075	USSR	31 JUL	13 DEC 80	
1980 068A	COSMOS 1205	11924	USSR	12 AUG	26 AUG 80	
1980 068B		11925	USSR	12 AUG	17 AUG 80	
1980 068C		11943	USSR	12 AUG	10 SEP 80	
1980 068D		11944	USSR	12 AUG	29 AUG 80	
1980 070A	COSMOS 1207	11938	USSR	22 AUG	4 SEP 80	
1980 070B		11939	USSR	22 AUG	26 AUG 80	
1980 070C		11954	USSR	22 AUG	8 SEP 80	
1980 070D		11959	USSR	22 AUG	8 SEP 80	
1980 071A	COSMOS 1208	11945	USSR	26 AUG	24 SEP 80	
1980 071B		11946	USSR	26 AUG	30 AUG 80	
1980 072A	COSMOS 1209	11950	USSR	3 SEP	17 SEP 80	
1980 072B		11951	USSR	3 SEP	7 SEP 80	
1980 072C		11976	USSR	3 SEP	30 SEP 80	
1980 074B		11965	US	9 SEP	1 DEC 80	
1980 075A	SOYUZ 38	11977	USSR	18 SEP	26 SEP 80	
1980 075B		11978	USSR	18 SEP	21 SEP 80	
1980 075C		11979	USSR	18 SEP	21 SEP 80	
1980 076A	COSMOS 1210	11980	USSR	19 SEP	3 OCT 80	
1980 076B		11981	USSR	19 SEP	21 SEP 80	
1980 076C		11995	USSR	19 SEP	11 OCT 80	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980 LAUNCHES (CONT.)						
1980 076D		11996	USSR	19 SEP	6 OCT 80	
1980 076E		11999	USSR	19 SEP	29 OCT 80	
1980 076F		12001	USSR	19 SEP	10 OCT 80	
1980 076G		12002	USSR	19 SEP	5 OCT 80	
1980 077A	COSMOS 1211	11982	USSR	23 SEP	4 OCT 80	
1980 077B		11983	USSR	23 SEP	26 SEP 80	
1980 078A	COSMOS 1212	11985	USSR	26 SEP	9 OCT 80	
1980 078B		11986	USSR	26 SEP	29 SEP 80	
1980 078C		12006	USSR	26 SEP	10 OCT 80	
1980 078D		12007	USSR	26 SEP	11 OCT 80	
1980 079A	PROGRESS 11	11993	USSR	28 SEP	11 DEC 80	
1980 079B		11994	USSR	28 SEP	30 SEP 80	
1980 080A	COSMOS 1213	11997	USSR	3 OCT	17 OCT 80	
1980 080B		11998	USSR	3 OCT	7 OCT 80	
1980 080C		12022	USSR	3 OCT	6 NOV 80	
1980 080D		12023	USSR	3 OCT	24 OCT 80	
1980 080E		12024	USSR	3 OCT	24 OCT 80	
1980 080F		12025	USSR	3 OCT	22 OCT 80	
1980 081B		12004	USSR	5 OCT	7 OCT 80	
1980 081C		12005	USSR	5 OCT	6 OCT 80	
1980 081D		12012	USSR	5 OCT	15 APR 82	
1980 081E		12013	USSR	5 OCT	14 JUN 82	
1980 082A	COSMOS 1214	12008	USSR	10 OCT	23 OCT 80	
1980 082B		12009	USSR	10 OCT	13 OCT 80	
1980 082C		12029	USSR	10 OCT	25 OCT 80	
1980 082D		12030	USSR	10 OCT	25 OCT 80	
1980 082E		12031	USSR	10 OCT	25 OCT 80	
1980 083A	COSMOS 1215	12016	USSR	14 OCT	12 MAY 83	
1980 083B		12017	USSR	14 OCT	27 AUG 82	
1980 083C		12018	USSR	14 OCT	10 JAN 81	
1980 083D		12026	USSR	14 OCT	18 NOV 80	
1980 084A	COSMOS 1216	12019	USSR	16 OCT	30 OCT 80	
1980 084B		12020	USSR	16 OCT	23 OCT 80	
1980 084C		12021	USSR	16 OCT	22 OCT 80	
1980 084D		12040	USSR	16 OCT	5 DEC 80	
1980 084E		12041	USSR	16 OCT	26 MAR 81	
1980 084F		12043	USSR	16 OCT	13 APR 81	
1980 084G		12044	USSR	16 OCT	2 MAR 81	
1980 084H		12045	USSR	16 OCT	21 NOV 80	
1980 085B		12033	USSR	24 OCT	17 NOV 80	
1980 085C		12034	USSR	24 OCT	7 NOV 80	
1980 086A	COSMOS 1218	12039	USSR	30 OCT	12 DEC 80	
1980 086B		12042	USSR	30 OCT	2 NOV 80	
1980 088A	COSMOS 1219	12050	USSR	31 OCT	13 NOV 80	
1980 088B		12051	USSR	31 OCT	4 NOV 80	
1980 088C		12060	USSR	31 OCT	18 NOV 80	
1980 088D		12061	USSR	31 OCT	24 NOV 80	
1980 088E		12062	USSR	31 OCT	26 NOV 80	
1980 088F		12063	USSR	31 OCT	23 NOV 80	
1980 088G		12064	USSR	31 OCT	15 NOV 80	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980 LAUNCHES (CONT.)						
1980 089B		12055	USSR	4 NOV	5 NOV 80	
1980 089F		13311	USSR	4 NOV	21 NOV 82	
1980 089X		13327	USSR	4 NOV	23 JUL 82	
1980 089AB		13331	USSR	4 NOV	25 OCT 82	
1980 089AG		13337	USSR	4 NOV	30 OCT 82	
1980 089AQ		13347	USSR	4 NOV	22 DEC 82	
1980 089AR		13348	USSR	4 NOV	6 OCT 82	
1980 090A	COSMOS 1221	12058	USSR	12 NOV	26 NOV 80	
1980 090B		12059	USSR	12 NOV	20 NOV 80	
1980 090C		12073	USSR	12 NOV	14 APR 81	
1980 090D		12076	USSR	12 NOV	3 JAN 81	
1980 090E		12083	USSR	12 NOV	22 DEC 80	
1980 091B		12336	US	15 NOV	3 MAY 81	
1980 092B		12067	USSR	16 NOV	13 DEC 80	
1980 092C		12068	USSR	16 NOV	12 DEC 80	
1980 094A	SOYUZ T-3	12077	USSR	27 NOV	10 DEC 80	
1980 094B		12079	USSR	27 NOV	29 NOV 80	
1980 095B		12080	USSR	27 NOV	22 DEC 80	
1980 095C		12081	USSR	27 NOV	21 DEC 80	
1980 095D		12082	USSR	27 NOV	8 DEC 80	
1980 096A	COSMOS 1224	12084	USSR	1 DEC	15 DEC 80	
1980 096B		12085	USSR	1 DEC	9 DEC 80	
1980 096C		12095	USSR	1 DEC	4 MAY 81	
1980 096D		12096	USSR	1 DEC	15 MAR 81	
1980 096E		12097	USSR	1 DEC	26 JAN 81	
1980 101A	COSMOS 1227	12100	USSR	16 DEC	28 DEC 80	
1980 101B		12101	USSR	16 DEC	20 DEC 80	
1980 101C		12127	USSR	16 DEC	15 JAN 81	
1980 101D		12128	USSR	16 DEC	3 JAN 81	
1980 101E		12129	USSR	16 DEC	30 DEC 80	
1980 103B		12118	USSR	25 DEC	20 JAN 81	
1980 103C		12119	USSR	25 DEC	14 JAN 81	
1980 103D		12117	USSR	25 DEC	12 JAN 81	
1980 104B		12122	USSR	26 DEC	28 DEC 80	
1980 104C		12123	USSR	26 DEC	27 DEC 80	
1980 104D		12137	USSR	26 DEC	20 APR 82	
1980 105A		12121	USSR	26 DEC	21 JAN 81	
1980 105B		12124	USSR	26 DEC	30 DEC 80	
1980 105C		12125	USSR	26 DEC	8 JAN 81	
1980 105D		12126	USSR	26 DEC	13 JAN 81	
1981 LAUNCHES						
1981 001A	COSMOS 1237	12130	USSR	6 JAN	20 JAN 81	
1981 001B		12131	USSR	6 JAN	15 JAN 81	
1981 001C		12132	USSR	6 JAN	12 JAN 81	
1981 001D		12145	USSR	6 JAN	5 JUN 81	
1981 001E		12146	USSR	6 JAN	25 JAN 81	
1981 001F		12147	USSR	6 JAN	3 MAR 81	
1981 001G		12148	USSR	6 JAN	10 FEB 81	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981 LAUNCHES (CONT.)						
1981 002C		12135	USSR	9 JAN	27 JAN 81	
1981 002D		12136	USSR	9 JAN	22 JAN 81	
1981 004A	COSMOS 1239	12140	USSR	16 JAN	28 JAN 81	
1981 004B		12141	USSR	16 JAN	20 JAN 81	
1981 005A	COSMOS 1240	12143	USSR	20 JAN	17 FEB 81	
1981 005B		12144	USSR	20 JAN	24 JAN 81	
1981 007A	PROGRESS 12	12152	USSR	24 JAN	20 MAR 81	
1981 007B		12153	USSR	24 JAN	27 JAN 81	
1981 009B		12157	USSR	30 JAN	14 FEB 81	
1981 009C		12158	USSR	30 JAN	9 FEB 81	
1981 010A	COSMOS 1243	12160	USSR	2 FEB	2 FEB 81	
1981 010B		12161	USSR	2 FEB	4 FEB 81	
1981 011A	INTERCOSMOS 21	12162	USSR	6 FEB	7 JUL 82	
1981 011B		12163	USSR	6 FEB	22 JUN 82	
1981 012B		12296	JAPAN	11 FEB	28 FEB 81	
1981 014A	COSMOS 1245	12299	USSR	13 FEB	27 FEB 81	
1981 014B		12300	USSR	13 FEB	21 FEB 81	
1981 014C		12312	USSR	13 FEB	1 APR 81	
1981 014D		12313	USSR	13 FEB	5 MAR 81	
1981 014E		12314	USSR	13 FEB	15 MAR 81	
1981 014F		12316	USSR	13 FEB	22 JUL 81	
1981 015A	COSMOS 1246	12301	USSR	18 FEB	13 MAR 81	
1981 015B		12302	USSR	18 FEB	21 FEB 81	
1981 016B		12304	USSR	19 FEB	13 MAR 81	
1981 016C		12305	USSR	19 FEB	25 FEB 81	
1981 016D		12306	USSR	19 FEB	13 APR 81	
1981 017C		12310	JAPAN	21 FEB	25 NOV 81	
1981 019A		12315	US	28 FEB	20 JUN 81	
1981 020A	COSMOS 1248	12317	USSR	5 MAR	4 APR 81	
1981 020B		12318	USSR	5 MAR	8 MAR 81	
1981 021B		12550	USSR	5 MAR	22 JUN 81	
1981 021D		12552	USSR	5 MAR	19 JUL 81	
1981 023A	SOYUZ T-4	12334	USSR	12 MAR	26 MAY 81	
1981 023B		12335	USSR	12 MAR	14 MAR 81	
1981 024A	UNKNOWN	12337	USSR	14 MAR	15 MAR 81	
1981 024B		12338	USSR	14 MAR	14 MAR 81	
1981 025B		12340	US	16 MAR	18 MAR 81	
1981 026A	COSMOS 1259	12341	USSR	17 MAR	31 MAR 81	
1981 026B		12342	USSR	17 MAR	25 MAR 81	
1981 026C		12350	USSR	17 MAR	11 APR 81	
1981 026D		12379	USSR	17 MAR	29 APR 81	
1981 026E		12380	USSR	17 MAR	8 JUL 81	
1981 026F		12381	USSR	17 MAR	30 AUG 81	
1981 026G		12382	USSR	17 MAR	19 APR 81	
1981 027B		12352	USSR	18 MAR	18 MAR 81	
1981 027C		12353	USSR	18 MAR	18 MAR 81	
1981 027D		12396	USSR	18 MAR	15 APR 82	
1981 027E		12397	USSR	18 MAR	15 APR 82	
1981 028A	COSMOS 1260	12364	USSR	20 MAR	22 MAY 82	
1981 028B		12365	USSR	20 MAR	21 MAR 81	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981 LAUNCHES (CONT.)						
1981 028C		13180	USSR	20 MAR	5 SEP 82	
1981 028D		13181	USSR	20 MAR	10 SEP 82	
1981 028H		13185	USSR	20 MAR	4 NOV 82	
1981 028J		13186	USSR	20 MAR	11 JAN 83	
1981 028N		13190	USSR	20 MAR	2 NOV 82	
1981 028R		13193	USSR	20 MAR	13 JUN 82	
1981 028S		13194	USSR	20 MAR	1 SEP 82	
1981 028T		13195	USSR	20 MAR	10 SEP 82	
1981 028U		13196	USSR	20 MAR	31 MAY 82	
1981 028W		13198	USSR	20 MAR	3 OCT 82	
1981 028X		13199	USSR	20 MAR	31 AUG 82	
1981 028Y		13200	USSR	20 MAR	16 JUN 82	
1981 028AA		13202	USSR	20 MAR	14 AUG 82	
1981 028AB		13203	USSR	20 MAR	21 JUN 82	
1981 028AC		13221	USSR	20 MAR	15 JUN 82	
1981 028AD		13222	USSR	20 MAR	14 AUG 82	
1981 028AE		13223	USSR	20 MAR	9 SEP 82	
1981 028AF		13224	USSR	20 MAR	31 DEC 82	
1981 028AG		13225	USSR	20 MAR	9 AUG 82	
1981 028AJ		13227	USSR	20 MAR	2 JUN 82	
1981 028AK		13228	USSR	20 MAR	4 NOV 82	
1981 028AM		13230	USSR	20 MAR	17 JUN 82	
1981 028AN		13231	USSR	20 MAR	19 AUG 82	
1981 028AQ		13233	USSR	20 MAR	8 DEC 82	
1981 028AR		13234	USSR	20 MAR	25 AUG 82	
1981 028AS		13235	USSR	20 MAR	17 OCT 82	
1981 028AX		13445	USSR	20 MAR	11 NOV 82	
1981 029A	SOYUZ 39	12366	USSR	22 MAR	30 MAR 81	
1981 029B		12367	USSR	22 MAR	25 MAR 81	
1981 030B		12369	USSR	24 MAR	13 APR 81	
1981 030C		12370	USSR	24 MAR	12 APR 81	
1981 031B		12377	USSR	31 MAR	17 APR 81	
1981 031C		12378	USSR	31 MAR	15 APR 81	
1981 032A	COSMOS 1262	12385	USSR	7 APR	21 APR 81	
1981 032B		12386	USSR	7 APR	13 APR 81	
1981 032C		12387	USSR	7 APR	20 APR 81	
1981 032D		12410	USSR	7 APR	23 APR 81	
1981 032E		12411	USSR	7 APR	28 APR 81	
1981 032F		12417	USSR	7 APR	24 APR 81	
1981 034A	STS 1	12399	US	12 APR	14 APR 81	BT*
1981 035A	COSMOS 1264	12400	USSR	15 APR	29 APR 81	
1981 035B		12401	USSR	15 APR	23 APR 81	
1981 035C		12430	USSR	15 APR	24 OCT 81	
1981 035D		12431	USSR	15 APR	8 JUN 81	
1981 035E		12432	USSR	15 APR	4 MAY 81	
1981 035F		12433	USSR	15 APR	30 APR 81	
1981 036A	COSMOS 1265	12402	USSR	16 APR	28 APR 81	
1981 036B		12403	USSR	16 APR	19 APR 81	
1981 036C		12425	USSR	16 APR	15 MAY 81	
1981 036D		12426	USSR	16 APR	1 MAY 81	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981 LAUNCHES (CONT.)						
1981 036F		12428	USSR	16 APR	19 MAR 82	
1981 037B		12429	USSR	21 APR	20 MAY 81	
1981 037C		12434	USSR	21 APR	1 MAY 81	
1981 039A	COSMOS 1267	12419	USSR	25 APR	29 JUL 82	
1981 039B		12420	USSR	25 APR	28 APR 81	
1981 039C		12421	USSR	25 APR	28 APR 81	
1981 039D		12475	USSR	25 APR	26 MAY 81	
1981 040A	COSMOS 1268	12423	USSR	28 APR	12 MAY 81	
1981 040B		12424	USSR	28 APR	6 MAY 81	
1981 040C		12448	USSR	28 APR	20 MAY 81	
1981 040D		12449	USSR	28 APR	14 MAY 81	
1981 040E		12450	USSR	28 APR	15 MAY 81	
1981 040F		12451	USSR	28 APR	15 MAY 81	
1981 040G		12452	USSR	28 APR	14 MAY 81	
1981 042A	SOYUZ 40	12454	USSR	14 MAY	22 MAY 81	
1981 042B		12455	USSR	14 MAY	16 MAY 81	
1981 044B		12460	US	15 MAY	17 APR 82	
1981 044C		12944	US	15 MAY	8 DEC 81	
1981 045A	COSMOS 1270	12461	USSR	18 MAY	17 JUN 81	
1981 045B		12462	USSR	18 MAY	21 MAY 81	
1981 045C		12463	USSR	18 MAY	19 MAY 81	
1981 047A	COSMOS 1272	12466	USSR	21 MAY	4 JUN 81	
1981 047B		12467	USSR	21 MAY	31 MAY 81	
1981 047C		12468	USSR	21 MAY	23 MAY 81	
1981 047D		12498	USSR	21 MAY	24 NOV 81	
1981 047E		12499	USSR	21 MAY	9 JUN 81	
1981 047F		12505	USSR	21 MAY	8 JUL 81	
1981 047G		12506	USSR	21 MAY	6 JUL 81	
1981 047H		12507	USSR	21 MAY	5 AUG 81	
1981 048A	COSMOS 1273	12469	USSR	22 MAY	4 JUN 81	
1981 048B		12470	USSR	22 MAY	25 MAY 81	
1981 048C		12500	USSR	22 MAY	5 JUN 81	
1981 048D		12501	USSR	22 MAY	11 JUN 81	
1981 048E		12502	USSR	22 MAY	6 JUN 81	
1981 048F		12503	USSR	22 MAY	6 JUN 81	
1981 049B		12473	US	22 MAY	8 SEP 81	
1981 049C		12494	US	22 MAY	15 APR 82	
1981 051A	ROHINI 2	12491	INDIA	31 MAY	8 JUN 81	
1981 051B		12492	INDIA	31 MAY	6 JUN 81	
1981 052A	COSMOS 1274	12495	USSR	3 JUN	3 JUL 81	
1981 052B		12496	USSR	3 JUN	7 JUN 81	
1981 052C		12579	USSR	3 JUN	8 JUL 81	
1981 053BZ		12732	USSR	4 JUN	3 AUG 82	
1981 053DF		12762	USSR	4 JUN	4 NOV 81	
1981 053EA		12914	USSR	4 JUN	29 OCT 81	
1981 054B		12513	USSR	9 JUN	27 JUN 81	
1981 054C		12514	USSR	9 JUN	23 JUN 81	
1981 054D		12515	USSR	9 JUN	22 JUN 81	
1981 055A	COSMOS 1276	12517	USSR	16 JUN	29 JUN 81	
1981 055B		12518	USSR	16 JUN	19 JUN 81	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981 LAUNCHES (CONT.)						
1981 055C		12567	USSR	16 JUN	6 JUL 81	
1981 055D		12568	USSR	16 JUN	30 JUN 81	
1981 055E		12569	USSR	16 JUN	1 JUL 81	
1981 055F		12570	USSR	16 JUN	1 JUL 81	
1981 056A	COSMOS 1277	12520	USSR	17 JUN	1 JUL 81	
1981 056B		12521	USSR	17 JUN	28 JUN 81	
1981 056C		12522	USSR	17 JUN	22 JUN 81	
1981 056D		12523	USSR	17 JUN	28 JUN 81	
1981 056E		12524	USSR	17 JUN	29 JUN 81	
1981 056F		12525	USSR	17 JUN	22 JUN 81	
1981 056G		12526	USSR	17 JUN	23 JUN 81	
1981 056H		12573	USSR	17 JUN	31 JUL 81	
1981 056J		12574	USSR	17 JUN	12 DEC 81	
1981 056K		12575	USSR	17 JUN	28 AUG 81	
1981 058B		12548	USSR	19 JUN	28 JUL 81	
1981 058C		12549	USSR	19 JUN	29 JUL 81	
1981 060B		12557	USSR	24 JUN	4 AUG 81	
1981 060C		12558	USSR	24 JUN	22 JUL 81	
1981 061B		12565	USSR	25 JUN	26 JUN 81	
1981 061C		12566	USSR	25 JUN	28 JUN 81	
1981 061D		12603	USSR	26 JUN	15 APR 82	
1981 061E		12604	USSR	26 JUN	12 SEP 83	
1981 062A	COSMOS 1279	12571	USSR	1 JUL	15 JUL 81	
1981 062B		12572	USSR	1 JUL	14 JUL 81	
1981 062C		12576	USSR	1 JUL	2 JUL 81	
1981 062D		12590	USSR	1 JUL	20 DEC 81	
1981 062E		12591	USSR	1 JUL	7 SEP 81	
1981 062F		12592	USSR	1 JUL	16 JUL 81	
1981 062G		12593	USSR	1 JUL	22 AUG 81	
1981 063A	COSMOS 1280	12577	USSR	2 JUL	15 JUL 81	
1981 063B		12578	USSR	2 JUL	8 JUL 81	
1981 063C		12594	USSR	2 JUL	2 AUG 81	
1981 063D		12595	USSR	2 JUL	10 AUG 81	
1981 063E		12596	USSR	2 JUL	22 JUL 81	
1981 063F		12597	USSR	2 JUL	22 JUL 81	
1981 064A	COSMOS 1281	12583	USSR	7 JUL	21 JUL 81	
1981 064B		12584	USSR	7 JUL	17 JUL 81	
1981 064C		12600	USSR	7 JUL	20 AUG 81	
1981 064D		12601	USSR	7 JUL	6 SEP 81	
1981 064E		12602	USSR	7 JUL	9 DEC 81	
1981 065C	ISKRA	12587	USSR	10 JUL	7 OCT 81	
1981 066A	COSMOS 1282	12588	USSR	15 JUL	14 AUG 81	
1981 066B		12589	USSR	15 JUL	19 JUL 81	
1981 067A	COSMOS 1283	12598	USSR	17 JUL	31 JUL 81	
1981 067B		12599	USSR	17 JUL	19 JUL 81	
1981 067C		12621	USSR	17 JUL	5 AUG 81	
1981 067D		12622	USSR	17 JUL	8 OCT 81	
1981 067E		12623	USSR	17 JUL	21 AUG 81	
1981 068A	COSMOS 1284	12614	USSR	29 JUL	12 AUG 81	
1981 068B		12617	USSR	29 JUL	31 JUL 81	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981 LAUNCHES (CONT.)						
1981 068C		12683	USSR	29 JUL	16 OCT 81	
1981 068D		12684	USSR	29 JUL	29 AUG 81	
1981 068E		12685	USSR	29 JUL	16 AUG 81	
1981 068F		12686	USSR	29 JUL	6 SEP 81	
1981 069B		12619	USSR	30 JUL	1 AUG 81	
1981 069C		12620	USSR	30 JUL	31 JUL 81	
1981 069D		12633	USSR	30 JUL	20 APR 82	
1981 069E		12634	USSR	30 JUL	15 APR 82	
1981 070B	DE 2	12625	US	3 AUG	19 FEB 83	
1981 070D		12628	US	3 AUG	17 MAR 82	
1981 070F		12798	US	3 AUG	3 AUG 81	
1981 070G		12945	US	3 AUG	25 JAN 82	
1981 070H		12946	US	3 AUG	16 FEB 82	
1981 071B		12629	USSR	4 AUG	26 AUG 81	
1981 071C		12630	USSR	4 AUG	1 SEP 81	
1981 072A	COSMOS 1286	12631	USSR	4 AUG	16 OCT 82	
1981 072B		12632	USSR	4 AUG	4 AUG 81	
1981 072C		13601	USSR	4 AUG	22 OCT 82	
1981 073B		12778	US	6 AUG	16 APR 83	
1981 076B		12678	JAPAN	10 AUG	24 AUG 81	
1981 078A	COSMOS 1296	12687	USSR	13 AUG	13 SEP 81	
1981 078B		12688	USSR	13 AUG	17 AUG 81	
1981 079A	COSMOS 1297	12716	USSR	18 AUG	30 AUG 81	
1981 079B		12717	USSR	18 AUG	25 AUG 81	
1981 079C		12718	USSR	18 AUG	19 AUG 81	
1981 079D		12794	USSR	18 AUG	5 SEP 81	
1981 079E		12795	USSR	18 AUG	31 AUG 81	
1981 079F		12796	USSR	18 AUG	2 SEP 81	
1981 079G		12797	USSR	18 AUG	31 AUG 81	
1981 080A	COSMOS 1298	12776	USSR	21 AUG	2 OCT 81	
1981 080B		12777	USSR	21 AUG	24 AUG 81	
1981 081B		12784	USSR	24 AUG	17 NOV 81	
1981 081C		12807	USSR	24 AUG	7 SEP 81	
1981 081E		12809	USSR	24 AUG	27 SEP 81	
1981 083A	COSMOS 1301	12788	USSR	27 AUG	10 SEP 81	
1981 083B		12789	USSR	27 AUG	31 AUG 81	
1981 083C		12790	USSR	27 AUG	2 SEP 81	
1981 083D		12811	USSR	27 AUG	24 SEP 81	
1981 083E		12812	USSR	27 AUG	17 SEP 81	
1981 083F		12813	USSR	27 AUG	9 NOV 81	
1981 085A		12799	US	3 SEP	23 NOV 84	
1981 085B		12800	US	3 SEP	12 OCT 81	
1981 086A	COSMOS 1303	12801	USSR	4 SEP	18 SEP 81	
1981 086B		12802	USSR	4 SEP	12 SEP 81	
1981 086C		12805	USSR	4 SEP	5 SEP 81	
1981 086D		12806	USSR	4 SEP	5 SEP 81	
1981 086E		12839	USSR	4 SEP	9 OCT 81	
1981 086F		12840	USSR	4 SEP	25 OCT 81	
1981 086G		12841	USSR	4 SEP	6 FEB 82	
1981 088B		12819	USSR	11 SEP	5 OCT 81	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981 LAUNCHES (CONT.)						
1981 088C		12820	USSR	11 SEP	3 OCT 81	
1981 088D		12821	USSR	11 SEP	13 JAN 82	
1981 088E		12822	USSR	11 SEP	4 DEC 81	
1981 089A	COSMOS 1306	12828	USSR	14 SEP	16 JUL 82	
1981 089B		12829	USSR	14 SEP	15 SEP 81	
1981 089C		13369	USSR	14 SEP	12 DEC 82	
1981 089D		13387	USSR	14 SEP	11 OCT 82	
1981 089E		13393	USSR	14 SEP	1 MAY 83	
1981 089G		13408	USSR	14 SEP	19 AUG 82	
1981 089H		13588	USSR	14 SEP	6 DEC 82	
1981 090A	COSMOS 1307	12830	USSR	15 SEP	28 SEP 81	
1981 090B		12831	USSR	15 SEP	23 SEP 81	
1981 090C		12832	USSR	15 SEP	16 SEP 81	
1981 090D		12873	USSR	15 SEP	4 JAN 82	
1981 090E		12875	USSR	15 SEP	30 SEP 81	
1981 090F		12876	USSR	15 SEP	4 NOV 81	
1981 090G		12877	USSR	15 SEP	4 FEB 82	
1981 090H		12878	USSR	15 SEP	23 OCT 81	
1981 092A	COSMOS 1309	12837	USSR	18 SEP	1 OCT 81	
1981 092B		12838	USSR	18 SEP	21 SEP 81	
1981 093A	PRC 9A	12842	PRC	19 SEP	26 SEP 81	
1981 093B	PRC 9B	12843	PRC	19 SEP	6 OCT 82	
1981 093C		12844	PRC	19 SEP	22 NOV 81	
1981 093D	PRC 9C	12845	PRC	19 SEP	17 AUG 82	
1981 093E		12846	PRC	19 SEP	10 APR 83	
1981 093F		12847	PRC	19 SEP	25 NOV 81	
1981 093G		12884	PRC	19 SEP	22 MAY 82	
1981 093H		12885	PRC	19 SEP	20 MAY 82	
1981 093J		12890	PRC	19 SEP	20 OCT 81	
1981 093K		12958	PRC	19 SEP	16 NOV 81	
1981 095B		12853	USSR	23 SEP	17 SEP 83	
1981 096B		12874	US	24 SEP	15 APR 82	
1981 097A	COSMOS 1311	12871	USSR	28 SEP	28 AUG 83	
1981 097B		12872	USSR	28 SEP	16 FEB 83	
1981 097C		13054	USSR	28 SEP	27 FEB 82	BV*
1981 097D		13055	USSR	28 SEP	26 FEB 82	
1981 097E		13667	USSR	28 SEP	5 DEC 82	
1981 097F		13668	USSR	28 SEP	5 DEC 82	
1981 097G		13694	USSR	28 SEP	17 DEC 82	
1981 097H		13695	USSR	28 SEP	16 DEC 82	
1981 097J		13723	USSR	28 SEP	22 DEC 82	
1981 097K		13724	USSR	28 SEP	23 DEC 82	
1981 097L		13729	USSR	28 SEP	24 DEC 82	
1981 097M		13731	USSR	28 SEP	18 DEC 82	
1981 097N		13732	USSR	28 SEP	17 DEC 82	
1981 097P		13733	USSR	28 SEP	17 DEC 82	
1981 097Q		13734	USSR	28 SEP	16 DEC 82	
1981 097R		13735	USSR	28 SEP	31 DEC 82	
1981 097S		13743	USSR	28 SEP	31 DEC 82	
1981 097T		13744	USSR	28 SEP	31 DEC 82	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981 LAUNCHES (CONT.)						
1981 097U		13820	USSR	28 SEP	28 FEB 83	
1981 097V		13821	USSR	28 SEP	28 FEB 83	
1981 097W		13822	USSR	28 SEP	28 FEB 83	
1981 097X		13823	USSR	28 SEP	28 FEB 83	
1981 097Y		13824	USSR	28 SEP	28 FEB 83	
1981 097Z		13828	USSR	28 SEP	28 FEB 83	
1981 097AA		13831	USSR	28 SEP	28 FEB 83	
1981 097AB		13832	USSR	28 SEP	28 FEB 83	
1981 099A	COSMOS 1313	12881	USSR	1 OCT	15 OCT 81	
1981 099B		12882	USSR	1 OCT	5 OCT 81	
1981 099C		12883	USSR	1 OCT	2 OCT 81	
1981 099D		12910	USSR	1 OCT	16 OCT 81	
1981 099E		12911	USSR	1 OCT	16 OCT 81	
1981 099F		12912	USSR	1 OCT	26 OCT 81	
1981 100D		12891	US	6 OCT	14 NOV 81	
1981 100E		13405	US	6 OCT	19 OCT 82	
1981 101A	COSMOS 1314	12895	USSR	9 OCT	22 OCT 81	
1981 101B		12896	USSR	9 OCT	11 OCT 81	
1981 101C		12900	USSR	9 OCT	9 NOV 81	
1981 101D		12921	USSR	9 OCT	25 OCT 81	
1981 101E		12922	USSR	9 OCT	25 OCT 81	
1981 101F		12923	USSR	9 OCT	25 OCT 81	
1981 102B		12898	USSR	9 OCT	11 OCT 81	
1981 102C		12899	USSR	9 OCT	10 OCT 81	
1981 102D		12901	USSR	9 OCT	1 JUL 82	
1981 102E		12902	USSR	9 OCT	13 MAY 82	
1981 104A	COSMOS 1316	12905	USSR	15 OCT	29 OCT 81	
1981 104B		12913	USSR	15 OCT	23 OCT 81	
1981 104C		12924	USSR	15 OCT	8 NOV 81	
1981 104D		12925	USSR	15 OCT	31 OCT 81	
1981 104E		12926	USSR	15 OCT	31 OCT 81	
1981 105B		12916	USSR	17 OCT	4 NOV 81	
1981 105C		12917	USSR	17 OCT	6 NOV 81	
1981 105D		12918	USSR	17 OCT	8 NOV 81	
1981 106B		12928	USSR	30 OCT	31 OCT 81	
1981 106C		12929	USSR	30 OCT	31 OCT 81	
1981 107B		12931	US	31 OCT	2 NOV 81	
1981 108B		12934	USSR	31 OCT	23 NOV 81	
1981 108C		12935	USSR	31 OCT	14 NOV 81	
1981 109A	COSMOS 1318	12936	USSR	3 NOV	4 DEC 81	
1981 109B		12937	USSR	3 NOV	6 NOV 81	
1981 110B		12939	USSR	4 NOV	5 NOV 81	
1981 110C		12941	USSR	4 NOV	5 NOV 81	
1981 111A	STS 2	12953	US	12 NOV	14 NOV 81	BT*
1981 112A	COSMOS 1319	12954	USSR	13 NOV	27 NOV 81	
1981 112B		12955	USSR	13 NOV	22 NOV 81	
1981 112C		12956	USSR	13 NOV	16 NOV 81	
1981 112D		12957	USSR	13 NOV	13 NOV 81	
1981 112E		12970	USSR	13 NOV	13 DEC 81	
1981 112F		12971	USSR	13 NOV	15 APR 82	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981 LAUNCHES (CONT.)						
1981 112G		12972	USSR	13 NOV	2 JAN 82	
1981 112H		12973	USSR	13 NOV	27 DEC 81	
1981 112J		12974	USSR	13 NOV	8 DEC 81	
1981 113B		12960	USSR	17 NOV	27 NOV 81	
1981 113C		12961	USSR	17 NOV	29 NOV 81	
1981 118A	COSMOS 1329	12989	USSR	4 DEC	18 DEC 81	
1981 118B		12990	USSR	4 DEC	8 DEC 81	
1981 118C		12991	USSR	4 DEC	10 DEC 81	
1981 118D		13004	USSR	4 DEC	5 JAN 82	
1981 118E		13005	USSR	4 DEC	20 DEC 81	
1981 118F		13006	USSR	4 DEC	22 DEC 81	
1981 121A	COSMOS 1330	13008	USSR	19 DEC	19 JAN 82	
1981 121B		13009	USSR	19 DEC	23 DEC 81	
1981 123B		13013	USSR	23 DEC	16 JAN 82	
1981 123C		13014	USSR	23 DEC	10 JAN 82	
1982 LAUNCHES						
1982 002A	COSMOS 1332	13031	USSR	12 JAN	25 JAN 82	
1982 002B		13032	USSR	12 JAN	16 JAN 82	
1982 005A	COSMOS 1334	13036	USSR	20 JAN	3 FEB 82	
1982 005B		13037	USSR	20 JAN	24 JAN 82	
1982 005C		13038	USSR	20 JAN	22 JAN 82	
1982 005D		13039	USSR	20 JAN	20 JAN 82	
1982 005E		13048	USSR	20 JAN	4 FEB 82	
1982 005F		13049	USSR	20 JAN	6 FEB 82	
1982 005G		13050	USSR	20 JAN	17 FEB 82	
1982 005H		13051	USSR	20 JAN	6 FEB 82	
1982 005J		13052	USSR	20 JAN	5 FEB 82	
1982 006A		13040	US	21 JAN	23 MAY 82	
1982 006B		13041	US	21 JAN	22 JAN 82	
1982 007C		13044	USSR	29 JAN	30 JAN 82	BW*
1982 007D		13140	USSR	29 JAN	15 JUN 82	
1982 007E		13141	USSR	29 JAN	11 JUN 82	
1982 007F		13246	USSR	29 JAN	17 AUG 82	
1982 007G		13247	USSR	29 JAN	14 AUG 82	
1982 007H		13248	USSR	29 JAN	11 AUG 82	
1982 007J		13249	USSR	29 JAN	1 AUG 82	
1982 007K		13250	USSR	29 JAN	29 JUL 82	
1982 007L		13251	USSR	29 JAN	26 JUL 82	
1982 007M		13252	USSR	29 JAN	24 JUL 82	
1982 007N		13273	USSR	29 JAN	7 JUL 82	
1982 007P		13419	USSR	29 JAN	5 OCT 82	
1982 007Q		13420	USSR	29 JAN	5 OCT 82	
1982 007R		13421	USSR	29 JAN	29 SEP 82	
1982 007S		13422	USSR	29 JAN	28 SEP 82	
1982 007T		13429	USSR	29 JAN	4 OCT 82	
1982 007U		13430	USSR	29 JAN	4 OCT 82	
1982 007V		14052	USSR	29 JAN	11 JUN 83	
1982 007W		14053	USSR	29 JAN	10 JUN 83	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982 LAUNCHES (CONT.)						
1982 007X		14054	USSR	29 JAN	11 JUN 83	
1982 007Y		14055	USSR	29 JAN	9 JUN 83	
1982 007Z		14056	USSR	29 JAN	9 JUN 83	
1982 007AA		14068	USSR	29 JAN	9 JUN 83	
1982 008A	COSMOS 1336	13045	USSR	30 JAN	26 FEB 82	
1982 008B		13046	USSR	29 JAN	2 FEB 82	
1982 008C		13047	USSR	29 JAN	31 JAN 82	
1982 009B		13057	USSR	5 FEB	7 FEB 82	
1982 009C		13058	USSR	5 FEB	6 FEB 82	
1982 009E		13060	USSR	5 FEB	26 NOV 84	
1982 010A	COSMOS 1337	13061	USSR	11 FEB	25 JUL 82	
1982 010B		13062	USSR	11 FEB	11 FEB 82	
1982 011A	COSMOS 1338	13063	USSR	16 FEB	2 MAR 82	
1982 011B		13064	USSR	16 FEB	24 FEB 82	
1982 011C		13076	USSR	16 FEB	21 MAR 82	
1982 011D		13077	USSR	16 FEB	27 SEP 82	
1982 011E		13078	USSR	16 FEB	6 APR 82	
1982 011F		13079	USSR	16 FEB	19 MAR 82	
1982 015B		13071	USSR	26 FEB	8 MAR 82	
1982 015C		13072	USSR	26 FEB	13 MAR 82	
1982 016B		13081	USSR	3 MAR	27 MAR 82	
1982 016C		13082	USSR	3 MAR	16 MAR 82	
1982 017B		13087	US	5 MAR	6 MAY 83	
1982 018A	COSMOS 1342	13084	USSR	5 MAR	19 MAR 82	
1982 018B		13085	USSR	5 MAR	9 MAR 82	
1982 018C		13100	USSR	5 MAR	21 MAR 82	
1982 018D		13101	USSR	5 MAR	22 MAR 82	
1982 018E		13102	USSR	5 MAR	1 APR 82	
1982 020B		13093	USSR	15 MAR	16 MAR 82	
1982 020C		13094	USSR	15 MAR	16 MAR 82	
1982 020D		13095	USSR	15 MAR	16 MAR 82	
1982 020E		13099	USSR	15 MAR	14 SEP 83	
1982 021A	COSMOS 1343	13096	USSR	17 MAR	31 MAR 82	
1982 021B		13097	USSR	17 MAR	21 MAR 82	
1982 021C		13115	USSR	17 MAR	5 APR 82	
1982 021D		13116	USSR	17 MAR	1 APR 82	
1982 021E		13117	USSR	17 MAR	1 APR 82	
1982 022A	STS 3	13106	US	22 MAR	30 MAR 82	BT*
1982 023B		13108	USSR	24 MAR	12 APR 82	
1982 023C		13109	USSR	24 MAR	19 APR 82	
1982 028A	COSMOS 1347	13122	USSR	2 APR	21 MAY 82	
1982 028B		13123	USSR	2 APR	5 APR 82	
1982 029B		13125	USSR	7 APR	5 MAY 82	
1982 029C		13126	USSR	7 APR	27 APR 82	
1982 031B		13137	US	10 APR	18 APR 84	
1982 032A	COSMOS 1350	13134	USSR	15 APR	16 MAY 82	
1982 032B		13135	USSR	15 APR	18 APR 82	
1982 033B		13139	USSR	19 APR	24 APR 82	BX*
1982 033C	ISKRA 2	13176	USSR	17 MAY	9 JUL 82	
1982 033D		13204	USSR	19 APR	20 JUN 82	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982 LAUNCHES (CONT.)						
1982 033E		13270	USSR	19 APR	24 JUN 82	
1982 033F		13274	USSR	19 APR	27 JUN 82	
1982 033G		13275	USSR	19 APR	27 JUN 82	
1982 033H		13287	USSR	19 APR	2 JUL 82	
1982 033J		13291	USSR	19 APR	9 JUL 82	
1982 033K		13299	USSR	19 APR	12 JUL 82	
1982 033L		13332	USSR	19 APR	11 AUG 82	
1982 033M		13398	USSR	19 APR	21 AUG 82	
1982 033N		13409	USSR	19 APR	25 AUG 82	
1982 033P		13410	USSR	19 APR	13 AUG 82	
1982 033Q		13417	USSR	19 APR	1 SEP 82	
1982 033R		13418	USSR	19 APR	24 AUG 82	
1982 033S		13423	USSR	19 APR	31 AUG 82	
1982 033T		13424	USSR	19 APR	2 SEP 82	
1982 033U		13435	USSR	19 APR	29 AUG 82	
1982 033V		13436	USSR	19 APR	7 OCT 82	
1982 033W		13439	USSR	19 APR	6 SEP 82	
1982 033X		13440	USSR	19 APR	27 SEP 82	
1982 033Y		13522	USSR	19 APR	3 OCT 82	
1982 033Z		13523	USSR	19 APR	2 OCT 82	
1982 033AA		13541	USSR	19 APR	1 OCT 82	
1982 033AB		13560	USSR	19 APR	4 OCT 82	
1982 033AC		13596	USSR	19 APR	28 OCT 82	
1982 033AD	ISKRA 3	13663	USSR	18 NOV	16 DEC 82	
1982 033AE		13664	USSR	19 APR	28 DEC 82	
1982 033AF		13700	USSR	19 APR	26 MAR 83	
1982 033AG		14386	USSR	19 APR	16 NOV 83	
1982 033AH		14387	USSR	19 APR	19 FEB 84	
1982 033AJ		14388	USSR	19 APR	1 NOV 83	
1982 033AK		14392	USSR	19 APR	15 MAR 84	
1982 033AL		14393	USSR	19 APR	29 OCT 83	
1982 033AM		14485	USSR	19 APR	17 NOV 83	
1982 033AN		14486	USSR	19 APR	18 NOV 83	
1982 033AP		14487	USSR	19 APR	17 NOV 83	
1982 033AS		14857	USSR	19 APR	29 MAR 84	
1982 033AT		14858	USSR	19 APR	27 MAR 84	
1982 033AU		14859	USSR	19 APR	4 APR 84	
1982 033AV		14860	USSR	19 APR	3 APR 84	
1982 033AW		14861	USSR	19 APR	11 APR 84	
1982 033AX		14862	USSR	19 APR	13 APR 84	
1982 033AY		14863	USSR	19 APR	3 APR 84	
1982 033AZ		14864	USSR	19 APR	14 APR 84	
1982 033BA		14870	USSR	19 APR	27 APR 84	
1982 033BB		14871	USSR	19 APR	15 APR 84	
1982 033BE		14957	USSR	19 APR	13 MAY 84	
1982 033BF		14958	USSR	19 APR	14 MAY 84	
1982 033BH		14975	USSR	19 APR	24 MAY 84	
1982 033BJ		14976	USSR	19 APR	26 MAY 84	
1982 033BL		15105	USSR	19 APR	7 AUG 84	
1982 033BM		15106	USSR	19 APR	18 AUG 84	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982 LAUNCHES (CONT.)						
1982 033BN		15107	USSR	19 APR	14 AUG 84	
1982 033BP		15109	USSR	19 APR	16 AUG 84	
1982 033BQ		15111	USSR	19 APR	27 JUL 84	
1982 033BR		15112	USSR	19 APR	30 JUL 84	
1982 033BT		15114	USSR	19 APR	26 AUG 84	
1982 033BV		15128	USSR	19 APR	9 AUG 84	
1982 033BY		15133	USSR	19 APR	18 AUG 84	
1982 033BZ		15134	USSR	19 APR	4 AUG 84	
1982 033CC		15138	USSR	19 APR	18 AUG 84	
1982 033DT		15304	USSR	19 APR	26 SEP 84	
1982 034A	COSMOS 1351	13142	USSR	21 APR	14 MAR 83	
1982 034B		13143	USSR	21 APR	22 FEB 83	
1982 034C		13833	USSR	21 APR	27 FEB 83	
1982 034D		13836	USSR	21 APR	25 FEB 83	
1982 034E		13837	USSR	21 APR	26 FEB 83	
1982 034F		13838	USSR	21 APR	25 FEB 83	
1982 034G		13839	USSR	21 APR	25 FEB 83	
1982 034H		13840	USSR	21 APR	3 MAR 83	
1982 034J		13841	USSR	21 APR	27 FEB 83	
1982 034K		13842	USSR	21 APR	2 MAR 83	
1982 034L		13852	USSR	21 APR	26 FEB 83	
1982 034M		13853	USSR	21 APR	26 FEB 83	
1982 034N		13854	USSR	21 APR	26 FEB 83	
1982 034P		13855	USSR	21 APR	26 FEB 83	
1982 034Q		13856	USSR	21 APR	26 FEB 83	
1982 034R		13857	USSR	21 APR	5 MAR 83	
1982 034S		13858	USSR	21 APR	27 FEB 83	
1982 034T		13859	USSR	21 APR	26 FEB 83	
1982 034U		13860	USSR	21 APR	26 FEB 83	
1982 034V		13861	USSR	21 APR	26 FEB 83	
1982 034W		13862	USSR	21 APR	26 FEB 83	
1982 034X		13863	USSR	21 APR	26 FEB 83	
1982 034Y		13864	USSR	21 APR	26 FEB 83	
1982 034Z		13865	USSR	21 APR	3 MAR 83	
1982 034AA		13866	USSR	21 APR	26 FEB 83	
1982 034AB		13867	USSR	21 APR	25 FEB 83	
1982 035A	COSMOS 1352	13144	USSR	21 APR	5 MAY 82	
1982 035B		13145	USSR	21 APR	29 APR 82	
1982 035C		13155	USSR	21 APR	14 JUN 82	
1982 035D		13156	USSR	21 APR	30 NOV 82	
1982 035E		13157	USSR	21 APR	30 MAY 82	
1982 035F		13158	USSR	21 APR	2 JUL 82	
1982 036A	COSMOS 1353	13146	USSR	23 APR	6 MAY 82	
1982 036B		13147	USSR	23 APR	26 APR 82	
1982 036C		13159	USSR	23 APR	10 MAY 82	
1982 038A	COSMOS 1355	13150	USSR	29 APR	7 MAR 84	
1982 038B		13151	USSR	29 APR	29 APR 82	
1982 038C		14265	USSR	29 APR	13 SEP 83	
1982 038D		14266	USSR	29 APR	20 AUG 83	
1982 038E		14267	USSR	29 APR	20 SEP 83	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982 LAUNCHES (CONT.)						
1982 038F		14268	USSR	29 APR	31 AUG 83	
1982 038G		14269	USSR	29 APR	25 AUG 83	
1982 038H		14270	USSR	29 APR	12 SEP 83	
1982 038K		14271	USSR	29 APR	14 AUG	
1982 038K		14272	USSR	29 APR	12 SEP 83	
1982 038L		14273	USSR	29 APR	20 AUG 83	
1982 038M		14274	USSR	29 APR	26 SEP 83	
1982 038N		14275	USSR	29 APR	27 AUG 83	
1982 038P		14276	USSR	29 APR	22 AUG 83	
1982 038Q		14279	USSR	29 APR	29 AUG 83	
1982 038R		14280	USSR	29 APR	26 NOV 83	
1982 038S		14281	USSR	29 APR	24 AUG 83	
1982 038W		14342	USSR	29 APR	20 NOV 83	
1982 038Z		14682	USSR	29 APR	13 FEB 84	
1982 038AA		14683	USSR	29 APR	14 FEB 84	
1982 038AB		14684	USSR	29 APR	11 FEB 84	
1982 038AC		14685	USSR	29 APR	5 FEB 84	
1982 038AD		14686	USSR	29 APR	14 FEB 84	
1982 038AE		14687	USSR	29 APR	5 FEB 84	
1982 038AF		14697	USSR	29 APR	3 FEB 84	
1982 041A		13170	US	11 MAY	5 DEC 82	
1982 041B		13171	US	11 MAY	13 MAY 82	
1982 042A	SOYUZ T-5	13173	USSR	13 MAY	27 AUG 82	
1982 042B		13174	USSR	13 MAY	15 MAY 82	
1982 043B		13592	USSR	14 MAY	29 SEP 82	
1982 043C		13593	USSR	14 MAY	19 OCT 82	
1982 043E		13602	USSR	14 MAY	16 OCT 82	
1982 043F		13615	USSR	14 MAY	8 OCT 82	
1982 044B		13178	USSR	17 MAY	18 MAY 82	
1982 044C		13179	USSR	17 MAY	19 MAY 82	
1982 044D		13217	USSR	17 MAY	14 SEP 83	
1982 044E		13218	USSR	17 MAY	14 SEP 83	
1982 045B		13206	USSR	20 MAY	17 JUN 82	
1982 045C		13207	USSR	20 MAY	4 JUN 82	
1982 046A	COSMOS 1368	13208	USSR	21 MAY	3 JUN 82	
1982 046B		13209	USSR	21 MAY	29 MAY 82	
1982 046C		13254	USSR	21 MAY	6 JUN 82	
1982 046D		13255	USSR	21 MAY	6 JUN 82	
1982 046E		13256	USSR	21 MAY	9 JUN 82	
1982 047A	PROGRESS 13	13210	USSR	23 MAY	6 JUN 82	
1982 047B		13211	USSR	23 MAY	25 MAY 82	
1982 047C		13212	USSR	23 MAY	25 MAY 82	
1982 048A	COSMOS 1369	13213	USSR	25 MAY	8 JUN 82	
1982 048B		13214	USSR	25 MAY	30 MAY 82	
1982 048C		13216	USSR	25 MAY	26 MAY 82	
1982 048D		13267	USSR	25 MAY	27 JUN 82	
1982 048E		13268	USSR	25 MAY	15 JUN 82	
1982 049A	COSMOS 1370	13219	USSR	28 MAY	11 JUL 82	
1982 049B		13220	USSR	28 MAY	31 MAY 82	
1982 050B		13238	USSR	28 MAY	12 JUL 82	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982 LAUNCHES (CONT.)						
1982 050C		13239	USSR	28 MAY	28 JUN 82	
1982 050D		13240	USSR	28 MAY	1 JUN 82	
1982 052B		13411	USSR	1 JUN	9 SEP 82	
1982 052C		13412	USSR	1 JUN	13 AUG 82	
1982 053A	COSMOS 1373	13244	USSR	2 JUN	16 JUN 82	
1982 053B		13245	USSR	2 JUN	11 JUN 82	
1982 053C		13276	USSR	2 JUN	18 JUL 82	
1982 053D		13277	USSR	2 JUN	10 AUG 82	
1982 053E		13278	USSR	2 JUN	4 NOV 82	
1982 053F		13279	USSR	2 JUN	5 AUG 82	
1982 054A	COSMOS 1374	13257	USSR	3 JUN	3 JUN 82	
1982 054B		13258	USSR	3 JUN	5 JUN 82	
1982 054C		13280	USSR	3 JUN	3 JUN 82	
1982 056A	COSMOS 1376	13263	USSR	8 JUN	22 JUN 82	
1982 056B		13264	USSR	8 JUN	12 JUN 82	
1982 056C		13288	USSR	8 JUN	14 JUL 82	
1982 056D		13289	USSR	8 JUN	29 JUN 82	
1982 056E		13290	USSR	8 JUN	22 JUN 82	
1982 057A	COSMOS 1377	13265	USSR	8 JUN	22 JUL 82	
1982 057B		13266	USSR	8 JUN	12 JUN 82	
1982 060A	COSMOS 1379	13281	USSR	18 JUN	18 JUN 82	
1982 060B		13284	USSR	18 JUN	18 JUN 82	
1982 061A	COSMOS 1380	13282	USSR	18 JUN	27 JUN 82	
1982 061B		13286	USSR	18 JUN	25 JUN 82	
1982 062A	COSMOS 1381	13283	USSR	18 JUN	1 JUL 82	
1982 062B		13285	USSR	18 JUN	28 JUN 82	
1982 062C		13305	USSR	18 JUN	11 AUG 82	
1982 062D		13306	USSR	18 JUN	10 SEP 82	
1982 062E		13307	USSR	18 JUN	13 JUL 82	
1982 062F		13363	USSR	18 JUN	24 FEB 83	
1982 063A	SOYUZ T-6	13292	USSR	24 JUN	2 JUL 82	
1982 063B		13293	USSR	24 JUN	26 JUN 82	
1982 064B		13296	USSR	25 JUN	7 AUG 82	
1982 064C		13297	USSR	25 JUN	15 JUL 82	
1982 065A	STS 4	13300	US	27 JUN	4 JUL 82	BT*
1982 067A	COSMOS 1384	13303	USSR	30 JUN	30 JUL 82	
1982 067B		13304	USSR	30 JUN	5 JUL 82	
1982 068A	COSMOS 1385	13345	USSR	6 JUL	20 JUL 82	
1982 068B		13346	USSR	6 JUL	8 JUL 82	
1982 068C		13370	USSR	6 JUL	20 JUL 82	
1982 068D		13371	USSR	6 JUL	17 AUG 82	
1982 068E		13372	USSR	6 JUL	18 OCT 82	
1982 068F		13373	USSR	6 JUL	9 AUG 82	
1982 068G		13374	USSR	6 JUL	19 AUG 82	
1982 070A	PROGRESS 14	13361	USSR	10 JUL	13 AUG 82	
1982 070B		13362	USSR	10 JUL	12 JUL 82	
1982 071A	COSMOS 1387	13365	USSR	13 JUL	26 JUL 82	
1982 071B		13366	USSR	13 JUL	17 JUL 82	
1982 071C		13388	USSR	13 JUL	31 JUL 82	
1982 071D		13389	USSR	13 JUL	27 JUL 82	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982 LAUNCHES (CONT.)						
1982 072B		13330	US	16 JUL	12 JUL 84	
1982 074B		13334	USSR	21 JUL	20 SEP 82	
1982 074C		13335	USSR	21 JUL	3 SEP 82	
1982 075A	COSMOS 1396	13391	USSR	27 JUL	10 AUG 82	
1982 075B		13392	USSR	27 JUL	1 AUG 82	
1982 075C		13406	USSR	27 JUL	19 AUG 82	
1982 076A	COSMOS 1397	13394	USSR	29 JUL	18 MAY 83	BY*
1982 076B		13395	USSR	29 JUL	21 APR 83	
1982 076C		13981	USSR	29 JUL	22 APR 83	
1982 076D		13982	USSR	29 JUL	21 APR 83	
1982 076E		13986	USSR	29 JUL	13 APR 83	
1982 076F		13987	USSR	29 JUL	25 APR 83	
1982 076G		13988	USSR	29 JUL	18 APR 83	
1982 076H		13989	USSR	29 JUL	13 APR 83	
1982 076Q		14018	USSR	29 JUL	24 APR 83	
1982 076R		14019	USSR	29 JUL	24 APR 83	
1982 076S		14020	USSR	29 JUL	26 APR 83	
1982 076U		14022	USSR	29 JUL	25 APR 83	
1982 076W		14024	USSR	29 JUL	27 APR 83	
1982 076X		14025	USSR	29 JUL	24 APR 83	
1982 076Y		14031	USSR	29 JUL	24 APR 83	
1982 076Z		14033	USSR	29 JUL	25 APR 83	
1982 077A	COSMOS 1398	13396	USSR	3 AUG	13 AUG 82	
1982 077B		13397	USSR	3 AUG	7 AUG 82	
1982 077C		13414	USSR	3 AUG	13 AUG 82	
1982 077D		13415	USSR	3 AUG	13 AUG 82	
1982 078A	COSMOS 1399	13399	USSR	4 AUG	16 SEP 82	
1982 078B		13400	USSR	4 AUG	8 AUG 82	
1982 078C		13401	USSR	4 AUG	8 AUG 82	
1982 080A	SOYUZ T-7	13425	USSR	19 AUG	10 DEC 82	
1982 080B		13426	USSR	19 AUG	21 AUG 82	
1982 081A	COSMOS 1401	13427	USSR	20 AUG	3 SEP 82	
1982 081B		13428	USSR	20 AUG	25 AUG 82	
1982 081C		13494	USSR	20 AUG	7 SEP 82	
1982 081D		13495	USSR	20 AUG	9 SEP 82	
1982 081E		13496	USSR	20 AUG	22 SEP 82	
1982 082B		13438	US	26 AUG	18 SEP 82	
1982 083B		13433	USSR	27 AUG	12 SEP 82	
1982 083C		13434	USSR	27 AUG	10 SEP 82	
1982 083D		13437	USSR	27 AUG	2 SEP 82	
1982 084A	COSMOS 1402	13441	USSR	30 AUG	23 JAN 83	
1982 084B		13747	USSR	30 AUG	30 DEC 82	
1982 084C		13748	USSR	30 AUG	7 FEB 83	
1982 085A	COSMOS 1403	13448	USSR	1 SEP	15 SEP 82	
1982 085B		13450	USSR	1 SEP	9 SEP 82	
1982 085C		13452	USSR	1 SEP	2 SEP 82	
1982 085D		13542	USSR	1 SEP	5 APR 83	
1982 085E		13543	USSR	1 SEP	30 OCT 82	
1982 085F		13545	USSR	1 SEP	14 OCT 82	
1982 085G		13551	USSR	1 SEP	26 OCT 82	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982 LAUNCHES (CONT.)						
1982 086A	COSMOS 1404	13449	USSR	1 SEP	15 SEP 82	
1982 086B		13451	USSR	1 SEP	10 SEP 82	
1982 086C		13453	USSR	1 SEP	2 SEP 82	
1982 086D		13454	USSR	1 SEP	3 SEP 82	
1982 086E		13544	USSR	1 SEP	29 OCT 82	
1982 086F		13548	USSR	1 SEP	17 OCT 82	
1982 086G		13549	USSR	1 SEP	12 APR 83	
1982 086H		13550	USSR	1 SEP	30 OCT 82	
1982 088A	COSMOS 1405	13508	USSR	4 SEP	5 FEB 84	
1982 088B		13509	USSR	4 SEP	5 SEP 82	
1982 088C		14599	USSR	4 SEP	3 JAN 84	
1982 088D		14600	USSR	4 SEP	12 JAN 84	
1982 088E		14601	USSR	4 SEP	3 JAN 84	
1982 088F		14602	USSR	4 SEP	1 JAN 84	
1982 088G		14603	USSR	4 SEP	8 JAN 84	
1982 088H		14604	USSR	4 SEP	5 JAN 84	
1982 088J		14605	USSR	4 SEP	17 FEB 84	
1982 088K		14606	USSR	4 SEP	3 JAN 84	
1982 088L		14635	USSR	4 SEP	8 JAN 84	
1982 088M		14637	USSR	4 SEP	10 JAN 84	
1982 088N		14638	USSR	4 SEP	31 DEC 83	
1982 088P		14639	USSR	4 SEP	1 JAN 84	
1982 088Q		14640	USSR	4 SEP	28 DEC 83	
1982 088R		14641	USSR	4 SEP	1 JAN 84	
1982 088S		14642	USSR	4 SEP	30 DEC 83	
1982 088T		14643	USSR	4 SEP	4 JAN 84	
1982 088U		14644	USSR	4 SEP	30 DEC 83	
1982 088V		14645	USSR	4 SEP	31 DEC 83	
1982 088W		14646	USSR	4 SEP	13 JAN 84	
1982 088X		14647	USSR	4 SEP	6 JAN 84	
1982 088Y		14648	USSR	4 SEP	21 FEB 84	
1982 088Z		14649	USSR	4 SEP	4 JAN 84	
1982 088AA		14650	USSR	4 SEP	9 JAN 84	
1982 088AB		14651	USSR	4 SEP	5 JAN 84	
1982 088AC		14652	USSR	4 SEP	27 FEB 84	
1982 088AD		14653	USSR	4 SEP	28 JAN 84	
1982 088AE		14654	USSR	4 SEP	14 JAN 84	
1982 088AF		14655	USSR	4 SEP	3 FEB 84	
1982 088AG		14656	USSR	4 SEP	19 FEB 84	
1982 088AH		14657	USSR	4 SEP	31 JAN 84	
1982 088AJ		14658	USSR	4 SEP	21 JAN 84	
1982 089A	COSMOS 1406	13519	USSR	8 SEP	21 SEP 82	
1982 089B		13520	USSR	8 SEP	11 SEP 82	
1982 089C		13581	USSR	8 SEP	25 SEP 82	
1982 089D		13582	USSR	8 SEP	23 SEP 82	
1982 090A	PRC 12	13521	PRC	9 SEP	21 SEP 82	
1982 090B		13540	PRC	9 SEP	9 SEP 82	
1982 090C		13557	PRC	9 SEP	11 SEP 82	
1982 091A	COSMOS 1407	13546	USSR	15 SEP	16 OCT 82	
1982 091B		13547	USSR	15 SEP	19 SEP 82	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982 LAUNCHES (CONT.)						
1982 093B		13555	USSR	16 SEP	18 SEP 82	
1982 093C		13556	USSR	16 SEP	17 SEP 82	
1982 093D		13583	USSR	16 SEP	12 OCT 83	
1982 093E		13584	USSR	16 SEP	14 SEP 83	
1982 094A	PROGRESS 15	13555	USSR	18 SEP	16 OCT 82	
1982 094B		13559	USSR	18 SEP	20 SEP 82	
1982 095B		13586	USSR	22 SEP	17 OCT 82	
1982 095C		13587	USSR	22 SEP	13 OCT 82	
1982 098A	COSMOS 1411	13597	USSR	30 SEP	14 OCT 82	
1982 098B		13598	USSR	30 SEP	6 OCT 82	
1982 098C		13613	USSR	30 SEP	23 OCT 82	
1982 098D		13614	USSR	30 SEP	15 OCT 82	
1982 098E		13616	USSR	30 SEP	16 OCT 82	
1982 099B		13645	USSR	2 OCT	4 NOV 82	
1982 099C		13646	USSR	2 OCT	12 NOV 82	
1982 099D		13647	USSR	2 OCT	14 NOV 82	
1982 100B		13604	USSR	12 OCT	14 OCT 82	
1982 100C		13605	USSR	12 OCT	13 OCT 82	
1982 101A	COSMOS 1416	13611	USSR	14 OCT	28 OCT 82	
1982 101B		13612	USSR	14 OCT	23 OCT 82	
1982 101C		13633	USSR	14 OCT	30 OCT 82	
1982 101D		13634	USSR	14 OCT	8 NOV 82	
1982 103B		13625	USSR	20 OCT	22 OCT 82	
1982 103C		13626	USSR	20 OCT	21 OCT 82	
1982 103D		13629	USSR	20 OCT	5 JUL 83	
1982 103F		13644	USSR	20 OCT	21 MAY 83	
1982 104A	COSMOS 1418	13627	USSR	21 OCT	30 SEP 83	
1982 104B		13628	USSR	21 OCT	30 MAR 83	
1982 105C		13634	US	28 OCT	9 FEB 84	
1982 106C		13639	US	30 OCT	14 SEP 83	
1982 107A	PROGRESS 16	13638	USSR	31 OCT	14 DEC 82	
1982 107B		13640	USSR	31 OCT	2 NOV 82	
1982 108A	COSMOS 1419	13641	USSR	2 NOV	16 NOV 82	
1982 108B		13642	USSR	2 NOV	6 NOV 82	
1982 108C		13654	USSR	2 NOV	21 NOV 82	
1982 108D		13655	USSR	2 NOV	17 NOV 82	
1982 108E		13656	USSR	2 NOV	17 NOV 82	
1982 108F		13657	USSR	2 NOV	16 NOV 82	
1982 110A	STS 5	13658	US	11 NOV	16 NOV 82	BT*
1982 111B		13660	US	17 NOV	27 DEC 82	
1982 112A	COSMOS 1421	13661	USSR	18 NOV	2 DEC 82	
1982 112B		13662	USSR	18 NOV	22 NOV 82	
1982 112C		13665	USSR	18 NOV	20 NOV 82	
1982 112D		13672	USSR	18 NOV	5 DEC 82	
1982 112E		13673	USSR	18 NOV	6 DEC 82	
1982 112F		13674	USSR	18 NOV	14 DEC 82	
1982 113B		13670	USSR	26 NOV	27 NOV 82	
1982 113C		13671	USSR	26 NOV	28 NOV 82	
1982 113D		13675	USSR	26 NOV	15 JUN 84	
1982 113E		13676	USSR	26 NOV	12 OCT 83	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982 LAUNCHES (CONT.)						
1982 114A	COSMOS 1422	13677	USSR	3 DEC	17 DEC 82	
1982 114B		13678	USSR	3 DEC	7 DEC 82	
1982 114C		13679	USSR	3 DEC	4 DEC 82	
1982 114D		13727	USSR	3 DEC	29 DEC 82	
1982 114E		13728	USSR	3 DEC	20 DEC 82	
1982 114F		13730	USSR	3 DEC	18 DEC 82	
1982 115B		13686	USSR	8 DEC	27 DEC 82	
1982 115C		13692	USSR	8 DEC	9 DEC 82	
1982 115D		13693	USSR	8 DEC	22 DEC 82	
1982 115F		13697	USSR	8 DEC	19 DEC 82	
1982 115G		13698	USSR	8 DEC	21 DEC 82	
1982 115H		13699	USSR	8 DEC	23 DEC 82	
1982 115J		13701	USSR	8 DEC	12 DEC 82	
1982 115K		13702	USSR	8 DEC	26 DEC 82	
1982 115L		13703	USSR	8 DEC	15 DEC 82	
1982 117A	COSMOS 1424	13725	USSR	16 DEC	28 JAN 83	
1982 117B		13726	USSR	16 DEC	19 DEC 82	
1982 119A	COSMOS 1425	13739	USSR	23 DEC	6 JAN 83	
1982 119B		13740	USSR	23 DEC	6 JAN 83	
1982 119C		13741	USSR	23 DEC	28 DEC 82	
1982 119D		13742	USSR	23 DEC	28 DEC 82	
1982 119E		13754	USSR	23 DEC	27 OCT 83	
1982 119F		13755	USSR	23 DEC	3 MAR 83	
1982 119G		13756	USSR	23 DEC	11 FEB 83	
1982 120A	COSMOS 1426	13745	USSR	28 DEC	5 MAR 83	
1982 120B		13746	USSR	28 DEC	7 JAN 83	
1982 120C		13749	USSR	28 DEC	23 MAR 83	
1982 120D		13752	USSR	28 DEC	7 JAN 83	
1982 120E		13753	USSR	28 DEC	8 MAR 83	
1983 LAUNCHES						
1983 005A	COSMOS 1438	13779	USSR	27 JAN	7 FEB 83	
1983 005B		13780	USSR	27 JAN	30 JAN 83	
1983 005C		13787	USSR	27 JAN	12 FEB 83	
1983 005D		13788	USSR	27 JAN	6 FEB 83	
1983 005E		13789	USSR	27 JAN	11 FEB 83	
1983 005F		13790	USSR	27 JAN	13 FEB 83	
1983 007A	COSMOS 1439	13784	USSR	6 FEB	22 FEB 83	
1983 007B		13785	USSR	6 FEB	10 FEB 83	
1983 007C		13843	USSR	6 FEB	22 FEB 83	
1983 009A	COSMOS 1440	13793	USSR	10 FEB	24 FEB 83	
1983 009B		13794	USSR	10 FEB	15 FEB 83	
1983 009C		13847	USSR	10 FEB	15 MAR 83	
1983 009D		13848	USSR	10 FEB	2 MAR 83	
1983 011C		13846	JAPAN	20 FEB	3 MAR 83	
1983 012A	COSMOS 1442	13850	USSR	25 FEB	11 APR 83	
1983 012B		13851	USSR	25 FEB	1 MAR 83	
1983 013A	COSMOS 1443	13863	USSR	2 MAR	19 SEP 83	
1983 013B		13869	USSR	2 MAR	5 MAR 83	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983 LAUNCHES (CONT.)						
1983 013C		13872	USSR	2 MAR	4 MAR 83	
1983 013D		14305	USSR	2 MAR	12 SEP 83	
1983 014A	COSMOS 1444	13870	USSR	2 MAR	16 MAR 83	
1983 014B		13871	USSR	2 MAR	11 MAR 83	
1983 014C		13891	USSR	2 MAR	16 MAR 83	
1983 014D		13892	USSR	2 MAR	20 APR 83	
1983 014E		13893	USSR	2 MAR	26 MAY 83	
1983 014F		13894	USSR	2 MAR	4 FEB 84	
1983 015B		13876	USSR	11 MAR	27 MAR 83	
1983 015C		13877	USSR	11 MAR	1 APR 83	
1983 015D		13881	USSR	11 MAR	26 MAR 83	
1983 016B		13879	USSR	12 MAR	14 MAR 83	
1983 016C		13880	USSR	12 MAR	13 MAR 83	
1983 017A	COSMOS 1445	13883	USSR	15 MAR	16 MAR 83	
1983 017B		13885	USSR	15 MAR	17 MAR 83	
1983 017C		13889	USSR	15 MAR	18 MAR 83	
1983 018A	COSMOS 1446	13886	USSR	16 MAR	30 MAR 83	
1983 018B		13887	USSR	16 MAR	29 MAR 83	
1983 018C		13951	USSR	16 MAR	4 APR 83	
1983 018D		13952	USSR	16 MAR	30 MAR 83	
1983 018E		13953	USSR	16 MAR	31 MAR 83	
1983 019B		13895	USSR	16 MAR	4 APR 83	
1983 019C		13896	USSR	16 MAR	31 MAR 83	
1983 019E		13898	USSR	16 MAR	31 MAR 83	
1983 024A	COSMOS 1449	13955	USSR	31 MAR	15 APR 83	
1983 024B		13956	USSR	31 MAR	9 APR 83	
1983 024C		13962	USSR	31 MAR	1 APR 83	
1983 024D		13963	USSR	31 MAR	10 APR 83	
1983 024E		13993	USSR	31 MAR	23 APR 83	
1983 024F		13994	USSR	31 MAR	18 MAY 83	
1983 024G		13995	USSR	31 MAR	25 MAR 84	
1983 024H		13996	USSR	31 MAR	24 JUN 83	
1983 024J		13997	USSR	31 MAR	22 APR 83	
1983 025B		13965	USSR	2 APR	1 MAY 83	
1983 025C		13966	USSR	2 APR	16 APR 83	
1983 026A	STS 6	13968	US	4 APR	9 APR 83	BT*
1983 028B		13976	USSR	8 APR	8 APR 83	
1983 028C		13977	USSR	8 APR	10 APR 83	
1983 028D		13979	USSR	8 APR	15 MAY 84	
1983 029A	COSMOS 1451	13975	USSR	8 APR	22 APR 83	
1983 029B		13978	USSR	8 APR	9 APR 83	
1983 029C		14016	USSR	8 APR	20 MAY 83	
1983 029D		14026	USSR	8 APR	25 APR 83	
1983 029E		14027	USSR	8 APR	27 APR 83	
1983 032A		14001	US	15 APR	21 AUG 83	
1983 033F		14397	INDIA	17 APR	4 FEB 84	
1983 034C		14577	USSR	19 APR	25 MAR 84	
1983 034D		14578	USSR	19 APR	1 APR 84	
1983 034E		14597	USSR	19 APR	8 JUN 84	
1983 034F		14598	USSR	19 APR	1 DEC 84	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983 LAUNCHES (CONT.)						
1983 034G		14730	USSR	19 APR	21 MAY 84	
1983 034H		14731	USSR	19 APR	10 APR 84	
1983 034J		14853	USSR	19 APR	30 MAY 84	
1983 034K		14854	USSR	19 APR	6 JUN 84	
1983 034N		15007	USSR	19 APR	2 NOV 84	
1983 034P		15008	USSR	19 APR	22 NOV 84	
1983 035A	SOYUZ T-8	14014	USSR	20 APR	22 APR 83	
1983 035B		14015	USSR	20 APR	22 APR 83	
1983 035C		14029	USSR	20 APR	28 MAY 83	
1983 036A	COSMOS 1454	14017	USSR	22 APR	22 MAY 83	
1983 036B		14028	USSR	22 APR	26 APR 83	
1983 036C		14030	USSR	22 APR	23 APR 83	
1983 038B		14036	USSR	25 APR	31 MAY 83	
1983 038C		14037	USSR	25 APR	7 MAY 83	
1983 038D		14038	USSR	25 APR	17 MAY 83	
1983 038F		14042	USSR	25 APR	6 MAY 83	
1983 038G		14043	USSR	25 APR	29 APR 83	
1983 039A	COSMOS 1457	14039	USSR	26 APR	8 JUN 83	
1983 039B		14040	USSR	26 APR	30 APR 83	
1983 040A	COSMOS 1458	14044	USSR	28 APR	11 MAY 83	
1983 040B		14045	USSR	28 APR	2 MAY 83	
1983 040C		14046	USSR	28 APR	19 MAY 83	
1983 040D		14066	USSR	28 APR	12 MAY 83	
1983 040E		14067	USSR	28 APR	17 MAY 83	
1983 043A	COSMOS 1460	14058	USSR	6 MAY	20 MAY 83	
1983 043B		14060	USSR	6 MAY	15 MAY 83	
1983 043C		14061	USSR	6 MAY	21 MAY 83	
1983 043D		14062	USSR	6 MAY	6 MAY 83	
1983 043E		14063	USSR	6 MAY	8 MAY 83	
1983 043F		14078	USSR	6 MAY	11 JUL 83	
1983 043G		14079	USSR	6 MAY	9 APR 84	
1983 043H		14080	USSR	6 MAY	8 AUG 83	
1983 043J		14082	USSR	6 MAY	26 MAY 83	
1983 043K		14083	USSR	6 MAY	27 MAY 83	
1983 043L		14247	USSR	6 MAY	17 AUG 83	
1983 044B		14065	USSR	7 MAY	7 MAY 83	
1983 045A	COSMOS 1462	14071	USSR	17 MAY	31 MAY 83	
1983 045B		14072	USSR	17 MAY	23 MAY 83	
1983 045C		14073	USSR	17 MAY	21 MAY 83	
1983 045D		14074	USSR	17 MAY	9 JUN 83	
1983 045E		14098	USSR	17 MAY	7 JUN 83	
1983 045F		14099	USSR	17 MAY	20 JUN 83	
1983 049C		14091	USSR	26 MAY	15 JUL 83	
1983 049D		14092	USSR	26 MAY	2 JUL 83	
1983 049E		14093	USSR	26 MAY	5 JUL 83	
1983 049F		14094	USSR	26 MAY	9 DEC 83	
1983 049G		14212	USSR	26 MAY	2 NOV 83	
1983 049H		14213	USSR	26 MAY	31 OCT 83	
1983 049K		14215	USSR	26 MAY	25 OCT 83	
1983 050A	COSMOS 1466	14089	USSR	26 MAY	6 JUL 83	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983 LAUNCHES (CONT.)						
1983 050B		14090	USSR	26 MAY	30 MAY 83	
1983 050C		14097	USSR	26 MAY	27 MAY 83	
1983 052A	COSMOS 1467	14100	USSR	31 MAY	12 JUN 83	
1983 052B		14101	USSR	31 MAY	10 JUN 83	
1983 052C		14102	USSR	31 MAY	2 JUN 83	
1983 052D		14103	USSR	31 MAY	2 JUN 83	
1983 052E		14116	USSR	31 MAY	6 JUN 84	
1983 052F		14118	USSR	31 MAY	13 SEP 83	
1983 052G		14119	USSR	31 MAY	19 JUN 83	
1983 052H		14120	USSR	31 MAY	21 JUN 83	
1983 052J		14121	USSR	31 MAY	7 AUG 83	
1983 053B		14105	USSR	2 JUN	3 JUN 83	
1983 053C		14106	USSR	2 JUN	3 JUN 83	
1983 054B		14108	USSR	7 JUN	8 JUN 83	
1983 054C		14109	USSR	7 JUN	8 JUN 83	
1983 055A	COSMOS 1468	14110	USSR	7 JUN	21 JUN 83	
1983 055B		14111	USSR	7 JUN	12 JUN 83	
1983 055C		14140	USSR	7 JUN	15 JUL 83	
1983 055D		14141	USSR	7 JUN	29 JUN 83	
1983 057A	COSMOS 1469	14123	USSR	14 JUN	24 JUN 83	
1983 057B		14124	USSR	14 JUN	23 JUN 83	
1983 057C		14126	USSR	14 JUN	4 OCT 83	
1983 057D		14127	USSR	14 JUN	15 JUN 83	
1983 057E		14149	USSR	14 JUN	27 JUN 83	
1983 057F		14150	USSR	14 JUN	4 JUL 83	
1983 059A	STS 7	14132	US	18 JUN	24 JUN 83	BT*
1983 059F	SPAS-01	14142	FRG	18 JUN	24 JUN 83	35*
1983 060B		14136	US	20 JUN	22 JUN 83	
1983 062A	SOYUZ T-9	14152	USSR	27 JUN	23 NOV 83	
1983 062B		14153	USSR	27 JUN	29 JUN 83	
1983 062C		14519	USSR	27 JUN	17 MAR 84	
1983 064A	COSMOS 1471	14156	USSR	28 JUN	28 JUL 83	
1983 064B		14157	USSR	28 JUN	3 JUL 83	
1983 064C		14232	USSR	28 JUN	28 JUL 83	
1983 064D		14233	USSR	28 JUN	28 JUL 83	
1983 065B		14159	US	28 JUN	11 AUG 83	
1983 066B		14161	USSR	30 JUN	3 JUL 83	
1983 066C		14162	USSR	30 JUN	1 JUL 83	
1983 067B		14164	USSR	1 JUL	5 AUG 83	
1983 067C		14165	USSR	1 JUL	25 JUL 83	
1983 068A	COSMOS 1472	14169	USSR	5 JUL	19 JUL 83	
1983 068B		14170	USSR	5 JUL	7 JUL 83	
1983 068C		14197	USSR	5 JUL	11 DEC 83	
1983 068D		14198	USSR	5 JUL	3 SEP 83	
1983 068E		14202	USSR	5 JUL	16 AUG 83	
1983 068F		14203	USSR	5 JUL	28 AUG 83	
1983 070B		14183	USSR	8 JUL	21 AUG 83	
1983 070C		14184	USSR	8 JUL	24 JUL 83	
1983 071A	COSMOS 1482	14185	USSR	13 JUL	27 JUL 83	
1983 071B		14186	USSR	13 JUL	25 JUL 83	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983 LAUNCHES (CONT.)						
1983 071C		14187	USSR	13 JUL	15 JUL 83	
1983 071D		14188	USSR	13 JUL	9 DEC 83	
1983 071E		14217	USSR	13 JUL	20 SEP 83	
1983 071F		14218	USSR	13 JUL	14 OCT 83	
1983 071G		14219	USSR	13 JUL	20 OCT 83	
1983 071H		14230	USSR	13 JUL	25 JUN 84	
1983 071J		14231	USSR	13 JUL	31 JUL 83	
1983 073B		14200	USSR	19 JUL	20 AUG 83	
1983 073C		14201	USSR	19 JUL	11 AUG 83	
1983 074A	COSMOS 1483	14204	USSR	20 JUL	3 AUG 83	
1983 074B		14205	USSR	20 JUL	26 JUL 83	
1983 074C		14239	USSR	20 JUL	11 AUG 83	
1983 074D		14242	USSR	20 JUL	11 AUG 83	
1983 074E		14243	USSR	20 JUL	26 AUG 83	
1983 076A	COSMOS 1485	14210	USSR	26 JUL	9 AUG 83	
1983 076B		14211	USSR	26 JUL	5 AUG 83	
1983 076C		14216	USSR	26 JUL	14 SEP 83	
1983 076D		14253	USSR	26 JUL	29 SEP 83	
1983 076E		14254	USSR	26 JUL	30 OCT 83	
1983 076F		14255	USSR	26 JUL	14 AUG 84	
1983 077B		14235	US	28 JUL	28 SEP 83	
1983 080A	COSMOS 1487	14245	USSR	5 AUG	19 AUG 83	
1983 080B		14246	USSR	5 AUG	11 AUG 83	
1983 080C		14249	USSR	5 AUG	14 AUG 83	
1983 080D		14291	USSR	5 AUG	26 AUG 83	
1983 080E		14292	USSR	5 AUG	11 SEP 83	
1983 080F		14295	USSR	5 AUG	28 AUG 83	
1983 081B		14250	JAPAN	5 AUG	27 SEP 83	
1983 082A	COSMOS 1488	14251	USSR	9 AUG	23 AUG 83	
1983 082B		14252	USSR	9 AUG	18 AUG 83	
1983 082C		14298	USSR	9 AUG	13 NOV 83	
1983 082D		14302	USSR	9 AUG	5 SEP 84	
1983 082E		14303	USSR	9 AUG	28 AUG 83	
1983 082F		14347	USSR	9 AUG	13 NOV 83	
1983 083A	COSMOS 1489	14256	USSR	10 AUG	23 SEP 83	
1983 083B		14257	USSR	10 AUG	14 AUG 83	
1983 083C		14263	USSR	10 AUG	11 AUG 83	
1983 083D		14371	USSR	10 AUG	24 SEP 83	
1983 084D		14261	USSR	10 AUG	11 AUG 83	
1983 084E		14262	USSR	10 AUG	12 AUG 83	
1983 085A	PROGRESS 17	14283	USSR	17 AUG	18 SEP 83	
1983 085B		14284	USSR	17 AUG	20 AUG 83	
1983 086A	PRC 13	14288	PRC	19 AUG	3 SEP 83	
1983 086B		14289	PRC	19 AUG	30 AUG 83	
1983 086C		14290	PRC	19 AUG	20 AUG 83	
1983 086D		14293	PRC	19 AUG	20 AUG 83	
1983 086E		14294	PRC	19 AUG	21 AUG 83	
1983 086F		14296	PRC	19 AUG	20 AUG 83	
1983 087A	COSMOS 1493	14299	USSR	23 AUG	6 SEP 83	
1983 087B		14300	USSR	23 AUG	31 AUG 83	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983 LAUNCHES (CONT.)						
1983 087C		14304	USSR	23 AUG	30 AUG 83	
1983 087D		14322	USSR	23 AUG	18 SEP 83	
1983 087E		14323	USSR	23 AUG	6 DEC 83	
1983 087F		14324	USSR	23 AUG	10 OCT 84	
1983 088B		14308	USSR	25 AUG	28 AUG 83	
1983 088C		14309	USSR	25 AUG	26 AUG 83	
1983 089A	STS 8	14312	US	30 AUG	5 SEP 83	BT*
1983 090B		14314	USSR	30 AUG	12 SEP 83	
1983 090C		14315	USSR	30 AUG	19 SEP 83	
1983 092A	COSMOS 1495	14320	USSR	3 SEP	16 SEP 83	
1983 092B		14321	USSR	3 SEP	6 SEP 83	
1983 092C		14337	USSR	3 SEP	19 SEP 83	
1983 092D		14338	USSR	3 SEP	22 SEP 83	
1983 093A	COSMOS 1496	14326	USSR	7 SEP	19 OCT 83	
1983 093B		14327	USSR	7 SEP	11 SEP 83	
1983 094C		14332	US	8 SEP	21 MAY 84	
1983 095A	COSMOS 1497	14330	USSR	9 SEP	23 SEP 83	
1983 095B		14331	USSR	9 SEP	19 SEP 83	
1983 095C		14367	USSR	9 SEP	14 DEC 83	
1983 095D		14368	USSR	9 SEP	8 OCT 84	
1983 095E		14370	USSR	9 SEP	14 NOV 83	
1983 095F		14562	USSR	9 SEP	27 DEC 83	
1983 096A	COSMOS 1498	14334	USSR	14 SEP	29 SEP 83	
1983 096B		14335	USSR	14 SEP	19 SEP 83	
1983 096C		14336	USSR	14 SEP	19 SEP 83	
1983 096D		14374	USSR	14 SEP	17 OCT 83	
1983 096F		14376	USSR	14 SEP	5 OCT 83	
1983 097A	COSMOS 1499	14339	USSR	17 SEP	1 OCT 83	
1983 097B		14340	USSR	17 SEP	26 SEP 83	
1983 097C		14341	USSR	17 SEP	19 SEP 83	
1983 097D		14382	USSR	17 SEP	20 DEC 83	
1983 097E		14383	USSR	17 SEP	9 OCT 83	
1983 097F		14384	USSR	17 SEP	4 NOV 84	
1983 097G		14385	USSR	17 SEP	20 NOV 83	
1983 097H		14391	USSR	17 SEP	4 JAN 84	
1983 098B		14366	US	22 SEP	30 OCT 83	
1983 100B		14378	USSR	30 SEP	2 OCT 83	
1983 100C		14379	USSR	30 SEP	30 SEP 83	
1983 101C		14732	USSR	30 SEP	27 APR 84	
1983 101D		14733	USSR	30 SEP	28 APR 84	
1983 101E		14947	USSR	30 SEP	5 SEP 84	
1983 101F		14963	USSR	30 SEP	9 SEP 84	
1983 102B		14396	USSR	5 OCT	1 JUN 84	
1983 104A	COSMOS 1504	14403	USSR	14 OCT	6 DEC 83	
1983 104B		14404	USSR	14 OCT	17 OCT 83	
1983 106A	PROGRESS 18	14422	USSR	20 OCT	16 NOV 83	
1983 106B		14424	USSR	20 OCT	22 OCT 83	
1983 106C		14488	USSR	20 OCT	20 NOV 83	
1983 106D		14489	USSR	20 OCT	22 NOV 83	
1983 107A	COSMOS 1505	14425	USSR	21 OCT	4 NOV 83	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983 LAUNCHES (CONT.)						
1983 107B		14426	USSR	21 OCT	30 OCT 83	
1983 107C		14481	USSR	21 OCT	9 DEC 84	
1983 107D		14482	USSR	21 OCT	3 JAN 84	
1983 107E		14560	USSR	21 OCT	1 FEB 84	
1983 107F		14561	USSR	21 OCT	26 FEB 84	
1983 110B		14456	USSR	29 OCT	29 OCT 83	
1983 112A	COSMOS 1509	14490	USSR	17 NOV	1 DEC 83	
1983 112B		14498	USSR	17 NOV	22 NOV 83	
1983 112C		14535	USSR	17 NOV	27 DEC 83	
1983 112D		14536	USSR	17 NOV	5 DEC 83	
1983 112E		14539	USSR	17 NOV	3 DEC 83	
1983 112F		14540	USSR	17 NOV	7 DEC 83	
1983 112G		14541	USSR	17 NOV	2 DEC 83	
1983 114B		14517	USSR	23 NOV	15 DEC 83	
1983 114C		14518	USSR	23 NOV	10 DEC 83	
1983 116A	STS 9	14523	US	28 NOV	8 DEC 83	BT*
1983 117A	COSMOS 1511	14530	USSR	30 NOV	13 JAN 84	
1983 117B		14531	USSR	30 NOV	5 DEC 83	
1983 118B		14533	USSR	30 NOV	2 DEC 83	
1983 118C		14534	USSR	30 NOV	1 DEC 83	
1983 119A	COSMOS 1512	14542	USSR	7 DEC	21 DEC 83	
1983 119B		14543	USSR	7 DEC	17 DEC 83	
1983 119C		14544	USSR	7 DEC	9 DEC 83	
1983 119D		14545	USSR	7 DEC	9 DEC 83	
1983 119E		14573	USSR	7 DEC	16 FEB 84	
1983 119F		14574	USSR	7 DEC	30 DEC 83	
1983 119H		14576	USSR	7 DEC	20 MAR 84	
1983 119J		14579	USSR	7 DEC	9 JUL 84	
1983 119K		14580	USSR	7 DEC	28 DEC 83	
1983 119L		14581	USSR	7 DEC	26 JUN 84	
1983 119M		14673	USSR	7 DEC	30 MAR 84	
1983 121A	COSMOS 1514	14549	USSR	14 DEC	19 DEC 83	
1983 121B		14550	USSR	14 DEC	19 DEC 83	
1983 123B		14571	USSR	21 DEC	14 FEB 84	
1983 123C		14572	USSR	21 DEC	4 FEB 84	
1983 124A	COSMOS 1516	14583	USSR	27 DEC	9 FEB 84	
1983 124B		14584	USSR	27 DEC	31 DEC 83	
1983 125A	COSMOS 1517	14585	USSR	27 DEC	27 DEC 83	
1983 125B		14586	USSR	27 DEC	29 DEC 83	
1983 126B		14588	USSR	28 DEC	8 FEB 84	
1983 126C		14589	USSR	28 DEC	4 FEB 84	
1983 127D		14593	USSR	29 DEC	31 DEC 83	
1983 127E		14594	USSR	29 DEC	29 DEC 83	
1984 LAUNCHES						
1984 002A	COSMOS 1530	14622	USSR	11 JAN	25 JAN 84	
1984 002B		14623	USSR	11 JAN	25 JAN 84	
1984 002C		14661	USSR	11 JAN	4 FEB 84	
1984 002D		14662	USSR	11 JAN	11 APR 84	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984 LAUNCHES (CONT.)						
1984 002E		14663	USSR	11 JAN	16 MAR 84	
1984 002F		14664	USSR	11 JAN	26 MAR 84	
1984 004A	COSMOS 1532	14634	USSR	13 JAN	26 FEB 84	
1984 004B		14635	USSR	13 JAN	18 JAN 84	
1984 005B		14660	JAPAN	23 JAN	21 NOV 84	
1984 006A	COSMOS 1533	14666	USSR	26 JAN	9 FEB 84	
1984 006B		14667	USSR	26 JAN	13 FEB 84	
1984 006C		14712	USSR	26 JAN	5 MAY 84	
1984 006E		14714	USSR	26 JAN	11 APR 84	
1984 006F		14762	USSR	26 JAN	14 APR 84	
1984 008B		14671	PRC	29 JAN	8 FEB 84	
1984 008C		14672	PRC	29 JAN	30 JAN 84	
1984 008D		14678	PRC	29 JAN	15 FEB 84	
1984 009B		14676	US	31 JAN	27 FEB 84	
1984 011A	STS 41B	14681	US	3 FEB	11 FEB 84	BT*
1984 011B	WESTAR 6	14688	US	3 FEB	16 NOV 84	CA*
1984 011C	IRT	14689	US	5 FEB	11 FEB 84	35*
1984 011D	PALAPA B2	14692	INDNSA	6 FEB	16 NOV 84	CB*
1984 011G		14695	US	5 FEB	9 FEB 84	
1984 011H		14696	US	5 FEB	12 FEB 84	
1984 011J		14698	US	3 FEB	9 FEB 84	
1984 011K		14765	US	3 FEB	28 FEB 84	
1984 011L		14766	US	3 FEB	28 FEB 84	
1984 011M		14767	US	3 FEB	28 FEB 84	
1984 011N		14768	US	3 FEB	28 FEB 84	
1984 011P		14769	US	3 FEB	28 FEB 84	
1984 011Q		14770	US	3 FEB	28 FEB 84	
1984 011R		14771	US	3 FEB	28 FEB 84	
1984 011S		14772	US	3 FEB	28 FEB 84	
1984 011T		14773	US	3 FEB	28 FEB 84	
1984 012E		14761	US	5 FEB	18 OCT 84	
1984 012G		14964	US	5 FEB	18 OCT 84	
1984 012H		14969	US	5 FEB	18 OCT 84	
1984 014A	SOYUZ T-10	14701	USSR	8 FEB	11 APR 84	
1984 014B		14702	USSR	8 FEB	10 FEB 84	
1984 014C		14916	USSR	8 FEB	26 MAY 84	
1984 014D		14917	USSR	8 FEB	15 MAY 84	
1984 014E		14918	USSR	8 FEB	20 MAY	
1984 016B		14726	USSR	15 FEB	17 FEB 84	
1984 016C		14727	USSR	15 FEB	15 FEB 84	
1984 017A	COSMOS 1537	14737	USSR	16 FEB	1 MAR 84	
1984 017B		14738	USSR	16 FEB	23 FEB 84	
1984 017C		14774	USSR	16 FEB	2 MAR 84	
1984 017D		14775	USSR	16 FEB	18 MAR 84	
1984 017E		14776	USSR	16 FEB	2 MAR 84	
1984 017F		14777	USSR	16 FEB	8 MAR 84	
1984 017G		14778	USSR	16 FEB	25 MAY 84	
1984 017H		14779	USSR	16 FEB	4 MAR 84	
1984 018A	PROGRESS 19	14757	USSR	21 FEB	1 APR 84	
1984 018B		14758	USSR	21 FEB	23 FEB 84	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984 LAUNCHES (CONT.)						
1984 020A	COSMOS 1539	14763	USSR	28 FEB	9 APR 84	
1984 020B		14764	USSR	28 FEB	3 MAR 84	
1984 020C		14901	USSR	28 FEB	10 APR 84	
1984 022B		14784	USSR	2 MAR	3 MAR 84	
1984 022C		14785	USSR	2 MAR	3 MAR 84	
1984 024B		14791	USSR	6 MAR	6 APR 84	
1984 024C		14792	USSR	6 MAR	31 MAR 84	
1984 025A	COSMOS 1542	14793	USSR	7 MAR	21 MAR 84	
1984 025B		14794	USSR	7 MAR	21 MAR 84	
1984 025C		14847	USSR	7 MAR	5 MAY 84	
1984 025E		14851	USSR	7 MAR	29 MAY 84	
1984 025F		14852	USSR	7 MAR	29 MAY 84	
1984 025G		14856	USSR	7 MAR	5 JUN 84	
1984 026A	COSMOS 1543	14797	USSR	10 MAR	5 APR 84	
1984 026B		14798	USSR	10 MAR	27 MAR 84	
1984 028B		14822	USSR	16 MAR	18 MAR 84	
1984 028C		14823	USSR	16 MAR	17 MAR 84	
1984 029B		14826	USSR	16 MAR	26 APR 84	
1984 029C		14827	USSR	16 MAR	20 APR 84	
1984 030A	COSMOS 1545	14849	USSR	21 MAR	5 APR 84	
1984 030B		14850	USSR	21 MAR	29 MAR 84	
1984 030C		14855	USSR	21 MAR	29 MAR 84	
1984 030D		14889	USSR	21 MAR	15 APR 84	
1984 030E		14890	USSR	21 MAR	4 MAY 84	
1984 030F		14891	USSR	21 MAR	29 MAY 84	
1984 030G		14892	USSR	21 MAR	11 APR 84	
1984 030H		14893	USSR	21 MAR	8 APR 84	
1984 030J		14895	USSR	21 MAR	10 MAY 84	
1984 030K		14896	USSR	21 MAR	25 APR 84	
1984 031B		14868	USSR	29 MAR	31 MAR 84	
1984 031C		14869	USSR	29 MAR	29 MAR 84	
1984 032A	SOYUZ T-11	14872	USSR	3 APR	2 OCT 84	
1984 032B		14873	USSR	3 APR	5 APR 84	
1984 032D		15346	USSR	3 APR	5 DEC 84	
1984 033B		14885	USSR	4 APR	14 MAY 84	
1984 033C		14886	USSR	4 APR	1 MAY 84	
1984 034A	STS 41C	14897	US	6 APR	13 APR 84	BT*
1984 036A	COSMOS 1548	14902	USSR	10 APR	25 MAY 84	
1984 036B		14903	USSR	10 APR	13 APR 84	
1984 036C		14991	USSR	10 APR	25 MAY 84	
1984 036D		14992	USSR	10 APR	25 MAY 84	
1984 038A	PROGRESS 20	14932	USSR	15 APR	7 MAY 84	
1984 038B		14933	USSR	15 APR	17 APR 84	
1984 039A		14935	US	17 APR	13 AUG 84	
1984 040A	COSMOS 1549	14938	USSR	22 APR	3 MAY 84	
1984 040B		14939	USSR	22 APR	28 APR 84	
1984 040C		14952	USSR	22 APR	29 AUG 84	
1984 040E		14954	USSR	22 APR	23 JUN 84	
1984 040F		14955	USSR	22 APR	7 MAY 84	
1984 040G		14956	USSR	22 APR	13 OCT 84	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984 LAUNCHES (CONT.)						
1984 041B		14941	USSR	22 APR	24 APR 84	
1984 041C		14942	USSR	22 APR	22 APR 84	
1984 042A	PROGRESS 21	14961	USSR	7 MAY	26 MAY 84	
1984 042B		14962	USSR	7 MAY	10 MAY 84	
1984 044A	COSMOS 1551	14967	USSR	11 MAY	23 MAY 84	
1984 044B		14968	USSR	11 MAY	17 MAY 84	
1984 044C		14986	USSR	11 MAY	24 MAY 84	
1984 044D		14987	USSR	11 MAY	25 MAY 84	
1984 044E		14988	USSR	11 MAY	31 MAY 84	
1984 044F		14990	USSR	11 MAY	27 MAY 84	
1984 045A	COSMOS 1552	14971	USSR	14 MAY	3 NOV 84	
1984 045B		14972	USSR	14 MAY	19 MAY 84	
1984 045C		15379	USSR	14 MAY	4 NOV 84	
1984 045D		15380	USSR	14 MAY	5 NOV 84	
1984 045E		15381	USSR	14 MAY	5 NOV 84	
1984 047D		14980	USSR	19 MAY	21 MAY 84	
1984 047E		14981	USSR	19 MAY	20 MAY 84	
1984 048A	COSMOS 1557	14982	USSR	22 MAY	4 JUN 84	
1984 048B		14983	USSR	22 MAY	26 MAY 84	
1984 048C		15023	USSR	22 MAY	11 JUN 84	
1984 048D		15024	USSR	22 MAY	6 JUN 84	
1984 048E		15025	USSR	22 MAY	6 JUN 84	
1984 048F		15026	USSR	22 MAY	6 JUN 84	
1984 050A	COSMOS 1558	14993	USSR	25 MAY	8 JUL 84	
1984 050B		14994	USSR	25 MAY	28 MAY 84	
1984 051A	PROGRESS 22	14996	USSR	28 MAY	15 JUL 84	
1984 051B		14997	USSR	28 MAY	30 MAY 84	
1984 053B		15010	USSR	30 MAY	31 MAY 84	
1984 054A	COSMOS 1568	15011	USSR	1 JUN	14 JUN 84	
1984 054B		15012	USSR	1 JUN	11 JUN 84	
1984 054C		15021	USSR	1 JUN	6 JUN 84	
1984 054D		15022	USSR	1 JUN	6 JUN 84	
1984 054E		15041	USSR	1 JUN	8 AUG 84	
1984 054F		15042	USSR	1 JUN	1 NOV 84	
1984 054H		15044	USSR	1 JUN	16 JUN 84	
1984 054J		15045	USSR	1 JUN	20 JUN 84	
1984 054K		15048	USSR	1 JUN	4 DEC 84	
1984 054L		15049	USSR	1 JUN	10 SEP 84	
1984 054M		15050	USSR	1 JUN	13 JUL 84	
1984 054N		15062	USSR	1 JUN	22 AUG 84	
1984 055B		15028	USSR	6 JUN	28 JUL 84	
1984 055C		15029	USSR	6 JUN	10 JUL 84	
1984 057A	INTELSAT V F9	15034	ITSO	9 JUN	24 OCT 84	
1984 057B		15035	US	9 JUN	11 JUN 84	
1984 058A	COSMOS 1571	15036	USSR	11 JUN	26 JUN 84	
1984 058B		15037	USSR	11 JUN	24 JUN 84	
1984 058C		15038	USSR	11 JUN	16 JUN 84	
1984 058D		15065	USSR	11 JUN	20 OCT 84	
1984 058E		15066	USSR	11 JUN	25 NOV 84	
1984 058G		15068	USSR	11 JUN	1 JUL 84	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984 LAUNCHES (CONT.)						
1984 058H		15069	USSR	11 JUN	22 SEP 84	
1984 058J		15072	USSR	11 JUN	8 SEP 84	
1984 060A	COSMOS 1572	15046	USSR	15 JUN	29 JUN 84	
1984 060B		15047	USSR	15 JUN	22 JUN 84	
1984 060C		15087	USSR	15 JUN	30 JUL 84	
1984 060D		15088	USSR	15 JUN	9 JUL 84	
1984 060E		15089	USSR	15 JUN	13 JUL 84	
1984 061A	COSMOS 1573	15051	USSR	19 JUN	28 JUN 84	
1984 061B		15052	USSR	19 JUN	24 JUN 84	
1984 061C		15079	USSR	19 JUN	1 JUL 84	
1984 061D		15082	USSR	19 JUN	15 JUL 84	
1984 061E		15083	USSR	19 JUN	30 JUN 84	
1984 061F		15084	USSR	19 JUN	30 JUN 84	
1984 061G		15086	USSR	19 JUN	5 JUL 84	
1984 063C		15059	USSR	22 JUN	22 JUN 84	
1984 064A	COSMOS 1575	15060	USSR	22 JUN	7 JUL 84	
1984 064B		15061	USSR	22 JUN	28 JUN 84	
1984 064C		15101	USSR	22 JUN	10 PUG 84	
1984 064D		15102	USSR	22 JUO	18 JUL 84	
1984 064E		15103	USSR	22 JUN	12 JUL 84	
1984 064F		15104	USSR	22 JUN	20 JUL 84	
1984 065A		15063	US	25 JUN	18 OCT 84	
1984 065B		15064	US	25 JUN	27 JUN 84	
1984 066A	COSMOS 1576	15070	USSR	26 JUN	24 AUG 84	
1984 066B		15073	USSR	26 JUN	29 JUN 84	
1984 066C		15074	USSR	26 JUN	1 JUL 84	
1984 066D		15222	USSR	26 JUN	25 AUG 84	
1984 069C		15328	USSR	29 JUN	5 NOV 84	
1984 070A	COSMOS 1580	15090	USSR	30 JUN	13 JUL 84	
1984 070B		15091	USSR	30 JUN	25 JUL 84	
1984 070C		15092	USSR	30 JUN	6 JUL 84	
1984 070D		15093	USSR	30 JUN	5 JUL 84	
1984 070E		15094	USSR	30 JUN	6 JUL 84	
1984 070F		15115	USSR	30 JUN	15 JUL 84	
1984 070G		15116	USSR	30 JUN	1 AUG 84	
1984 070H		15117	USSR	30 JUN	16 JUL 84	
1984 070J		15118	USSR	30 JUN	18 JUL 84	
1984 071B		15096	USSR	3 JUL	31 AUG 84	
1984 071C		15097	USSR	3 JUL	10 AUG 84	
1984 073A	SOYUZ T-12	15119	USSR	17 JUL	29 JUL 84	
1984 073B		15120	USSR	17 JUL	20 JUL 84	
1984 073D		15140	USSR	17 JUL	2 AUG 84	
1984 074A	COSMOS 1582	15121	USSR	19 JUL	2 AUG 84	
1984 074B		15122	USSR	19 JUL	27 JUL 84	
1984 074C		15150	USSR	19 JUL	9 SEP 84	
1984 074D		15151	USSR	19 JUL	14 AUG 84	
1984 074E		15154	USSR	19 JUL	15 AUG 84	
1984 074F		15155	USSR	19 JUL	18 AUG 84	
1984 075A	COSMOS 1583	15123	USSR	24 JUL	8 AUG 84	
1984 075B		15124	USSR	24 JUL	7 AUG 84	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984 LAUNCHES (CONT.)						
1984 075C		15125	USSR	24 JUL	1 AUG 84	
1984 075D		15126	USSR	24 JUL	27 JUL 84	
1984 075F		15170	USSR	24 JUL	19 DEC 84	
1984 075H		15178	USSR	24 JUL	26 OCT 84	
1984 075J		15179	USSR	24 JUL	25 OCT 84	
1984 075K		15180	USSR	24 JUL	7 SEP 84	
1984 076A	COSMOS 1584	15131	USSR	27 JUL	10 AUG 84	
1984 076B		15132	USSR	27 JUL	29 JUL 84	
1984 076C		15185	USSR	27 JUL	25 AUG 84	
1984 076D		15186	USSR	27 JUL	13 AUG 84	
1984 076E		15187	USSR	27 JUL	11 AUG 84	
1984 076F		15191	USSR	27 JUL	14 AUG 84	
1984 077A	COSMOS 1585	15142	USSR	31 JUL	28 SEP 84	
1984 077B		15143	USSR	31 JUL	3 AUG 84	
1984 078B		15145	USSR	1 AUG	3 AUG 84	
1984 078C		15146	USSR	1 AUG	2 AUG 84	
1984 079B		15148	USSR	2 AUG	19 SEP 84	
1984 079C		15149	USSR	2 AUG	7 SEP 84	
1984 080B		15153	JAPAN	2 AUG	11 OCT 84	
1984 080D		15162	JAPAN	2 AUG	12 AUG 84	
1984 082A	COSMOS 1587	15163	USSR	6 AUG	31 AUG 84	
1984 082B		15164	USSR	6 AUG	18 AUG 84	
1984 082C		15238	USSR	6 AUG	18 NOV 84	
1984 082D		15239	USSR	6 AUG	15 SEP 84	
1984 082E		15240	USSR	6 AUG	27 DEC 84	
1984 083B		15168	USSR	7 AUG	8 AUG 84	
1984 085B		15183	USSR	10 AUG	11 SEP 84	
1984 085C		15184	USSR	10 AUG	5 SEP 84	
1984 086A	PROGRESS 23	15193	USSR	14 AUG	28 AUG 84	
1984 086B		15194	USSR	14 AUG	17 AUG 84	
1984 087A	COSMOS 1590	15197	USSR	16 AUG	30 AUG 84	
1984 087B		15198	USSR	16 AUG	23 AUG 84	
1984 087C		15228	USSR	16 AUG	12 SEP 84	
1984 087D		15229	USSR	16 AUG	9 SEP 84	
1984 087E		15230	USSR	16 AUG	5 SEP 84	
1984 087F		15231	USSR	16 AUG	2 OCT 84	
1984 089B		15215	USSR	24 AUG	17 SEP 84	
1984 089C		15216	USSR	24 AUG	13 SEP 84	
1984 090B		15220	USSR	24 AUG	27 AUG 84	
1984 090C		15221	USSR	24 AUG	25 AUG 84	
1984 092A	COSMOS 1591	15232	USSR	30 AUG	13 SEP 84	
1984 092B		15233	USSR	30 AUG	5 SEP 84	
1984 092C		15289	USSR	30 AUG	15 SEP 84	
1984 092D		15290	USSR	30 AUG	14 OCT 84	
1984 092E		15291	USSR	30 AUG	23 SEP 84	
1984 092F		15294	USSR	30 AUG	28 SEP 84	
1984 092G		15295	USSR	30 AUG	29 SEP 84	
1984 092H		15296	USSR	30 AUG	15 SEP 84	
1984 093A	STS 41D	15234	US	30 AUG	5 SEP 84	BT*
1984 094A	COSMOS 1592	15257	USSR	4 SEP	18 SEP 84	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984 LAUNCHES (CONT.)						
1984 094B		15258	USSR	4 SEP	15 SEP 84	
1984 094C		15298	USSR	4 SEP	26 SEP 84	
1984 094D		15299	USSR	4 SEP	24 OCT 84	
1984 094E		15300	USSR	4 SEP	2 OCT 84	
1984 094F		15301	USSR	4 SEP	23 SEP 84	
1984 094G		15302	USSR	4 SEP	23 SEP 84	
1984 095D		15262	USSR	4 SEP	6 SEP 84	
1984 096B		15268	USSR	7 SEP	25 OCT 84	
1984 096C		15269	USSR	7 SEP	9 OCT 84	
1984 098A	PRC 16	15279	PRC	12 SEP	29 SEP 84	
1984 098B		15280	PRC	12 SEP	25 SEP 84	
1984 098C		15285	PRC	12 SEP	13 SEP 84	
1984 098D		15286	PRC	12 SEP	13 SEP 84	
1984 099A	COSMOS 1597	15287	USSR	13 SEP	26 SEP 84	
1984 099B		15288	USSR	13 SEP	19 SEP 84	
1984 099C		15320	USSR	13 SEP	4 OCT 84	
1984 099D		15321	USSR	13 SEP	27 SEP 84	
1984 101B		15309	US	21 SEP	19 NOV 84	
1984 102A	COSMOS 1599	15318	USSR	25 SEP	20 NOV 84	
1984 102B		15319	USSR	25 SEP	27 SEP 84	
1984 103A	COSMOS 1600	15324	USSR	27 SEP	11 OCT 84	
1984 103B		15325	USSR	27 SEP	14 OCT 84	
1984 103F		15361	USSR	27 SEP	17 DEC 84	
1984 103H		15373	USSR	27 SEP	26 OCT 84	
1984 106D		15336	USSR	28 SEP	1 OCT 84	
1984 106E		15337	USSR	28 SEP	29 SEP 84	
1984 107B		15351	USSR	4 OCT	2 DEC 84	
1984 107C		15352	USSR	4 OCT	7 NOV 84	
1984 108A	STS 41G	15353	US	5 OCT	13 OCT 84	BT*
1984 113A	STS 51A	15382	US	8 NOV	16 NOV 84	BT*
1984 116A	COSMOS 1608	15393	USSR	14 NOV	17 DEC 84	
1984 116B		15394	USSR	14 NOV	17 NOV 84	
1984 116C		15397	USSR	14 NOV	16 NOV 84	
1984 117A	COSMOS 1609	15395	USSR	14 NOV	28 NOV 84	
1984 117B		15396	USSR	14 NOV	25 NOV 84	
1984 117G		15411	USSR	14 NOV	1 DEC 84	
1984 117M		15421	USSR	14 NOV	11 DEC 84	
1984 117N		15428	USSR	14 NOV	24 DEC 84	
1984 119B		15404	USSR	21 NOV	25 NOV 84	
1984 119C		15405	USSR	21 NOV	22 NOV 84	
1984 120B		15407	USSR	27 NOV	2 DEC 84	
1984 121A	COSMOS 1613	15414	USSR	29 NOV	24 DEC 84	
1984 121B		15415	USSR	29 NOV	12 DEC 84	
1984 121C		15416	USSR	29 NOV	6 DEC 84	
1984 121D		15417	USSR	29 NOV	1 DEC 84	
1984 124G		15438	USSR	14 DEC	20 DEC 84	
1984 125B		15433	USSR	15 DEC	16 DEC 84	
1984 125C		15434	USSR	15 DEC	16 DEC 84	
1984 126A	COSMOS 1614	15442	USSR	19 DEC	19 DEC 84	
1984 126B		15443	USSR	19 DEC	21 DEC 84	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984 LAUNCHES (CONT.)						
1984 126C		15444	USSR	19 DEC	20 DEC 84	
1984 126D		15445	USSR	19 DEC	20 DEC 84	
1984 128C		15451	USSR	21 DEC	23 DEC 84	
1984 128D		15452	USSR	21 DEC	23 DEC 84	

FOOTNOTES FOR DECAYED OBJECTS

A* ANNOUNCED LUNAR IMPACT.

B* SUCCESSFUL RE-ENTRY AND RECOVERY.

C* ANNOUNCED SUCCESSFUL RE-ENTRY AND RECOVERY.

D* SUCCESSFUL RE-ENTRY BUT NOT RECOVERY.

E* ANNOUNCED SUCCESSFUL RE-ENTRY AND RECOVERY OF MANNED SPACE VEHICLE.

F* SUCCESSFULLY ORBITED AND RECOVERED A MANNED SPACE VEHICLE.

G* LUNAR IMPACT.

H* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1962 B-IOTA 1. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

J* 98 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1964 070A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

K* 168 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 012A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

L* 150 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 020A, 1965 020B AND 1965 020C. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

M* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 088A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

N* ANNOUNCED DECAY ON VENUS.

P* 15 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 112A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

Q* DEBRIS DISCOVERED IN ORBIT WHICH HAS NOT BEEN IDENTIFIED WITH ANY LAUNCHING OR COUNTRY OF ORIGIN.

R* ANNOUNCED THAT SPACECRAFT LANDED ON THE MOON.

S* 40 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 012A, 1966 012B AND 1966 012C. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

T* LANDED ON THE MOON.

U* 54 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 046A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

V* 79 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 056A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

W* 35 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 059A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

X* 53 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 088A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

Y* 41 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 101A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

Z* 15 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 104A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AA* 36 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1967 001A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

AB* 15 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED 1967 011A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

AC* 18 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1967 024A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AD* ANNOUNCED RE-ENTRY AND RECOVERY OF A MANNED SPACE VEHICLE.

AE* 16 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1968 025A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AF* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1968 117A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AG* A MANNED SPACECRAFT SUCCESSFULLY ORBITED THE MOON AND WAS RECOVERED.

FOOTNOTES (CONT)

AH* 23 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1969 021A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

AJ* A MANNED SPACECRAFT WHICH SUCCESSFULLY ORBITED THE MOON, LANDED MAN ON THE MOON IN THE LUNAR MODULE, AND WAS RECOVERED.

AK* 38 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1969 029A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

AL* 28 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1969 064A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

AM* A MANNED SPACECRAFT WHICH SUCCESSFULLY LANDED ON THE MOON, RETURNED TO SELENOCENTRIC ORBIT, THEN DECAYED ON THE SURFACE OF THE MOON.

AN* A MANNED SPACECRAFT WHICH PASSED AROUND THE MOON AND WAS SUCCESSFULLY RECOVERED ON THE EARTH.

AP* ANNOUNCED THAT SPACECRAFT LANDED ON THE MOON, RETURNED TO EARTH, AND WAS SUCCESSFULLY RECOVERED.

AQ* DEBRIS DISCOVERED IN ORBIT WHICH HAS NOT BEEN IDENTIFIED WITH ANY LAUNCH.

AR* ANNOUNCED DECAY ON MARS.

AS* 15 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1971 074A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AT* 29 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1971 106A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AU* 26 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 017A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AV* 197 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 021A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AW* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 027A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AX* 14 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 075A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AY* 20 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1974 074A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AZ* 51 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1974 103A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BA* 19 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1974 104A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BB* 19 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975 044A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BC* 1975 066A, CARRYING U.S. APOLLO ASTRONAUTS, AND 1975 065A, CARRYING USSR SOYUZ COSMONAUTS, DOCKED, CREW MEMBERS VISITED EACH OTHER'S SPACECRAFT, AND HERE SUCCESSFULLY RECOVERED.

BD* LANDED ON MARS.

BE* 77 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975 080A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BF* 63 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975 102A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BG* 17 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 012A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BH* 25 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 037A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BJ* 41 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 063A. ALL OBJECTS OF THIS SERIES HAVE DECAYED

FOOTNOTES (CONT)

BK* 249 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 072A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BL* ANNOUNCED THAT SPACECRAFT RETURNED TO EARTH FROM THE MOON AND WAS SUCCESSFULLY RECOVERED.

BM* 18 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 124A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BN* 22 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977 042A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BP* 106 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977 097A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BQ* 27 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977 111A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BR* 26 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1979 063A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BS* 27 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1980 047A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BT* SUCCESSFUL EARTH ORBIT AND EARTH LANDING OF MANNED SPACECRAFT.

BU* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1980 067A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BV* 26 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1981 097A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

BW* 25 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982 007A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

BX* 68 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982 033A. 1982 033C AND 1982 033AD. THE OBJECTS OF THIS SERIES REMAINING IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

BY* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982 076A. ALL OBJECTS IN THIS SERIES HAVE DECAYED.

BZ* 34 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982 088A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.

CA* 1984 011B (WESTAR 5) WAS RECOVERED BY 1984 113A (STS 51A) ON NOVEMBER 14, 1984.

CB* 1984 011D (PALAPA B2) WAS RECOVERED BY 1984 113A (STS 51A) ON NOVEMBER 12, 1984.

NNA NO CATALOG NUMBER ASSIGNED.

NNN NO NATIONAL NAME.