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

VOLUME 17 NO. 6

DECEMBER 31, 1977

SATELLITE SITUATION REPORT

THIS REPORT IS PUBLISHED AND DISTRIBUTED BY
THE OFFICE OF PUBLIC AFFAIRS, GSFC.

THE REPORT IS COMPILED BY THE GSEC OPERATIONS
CENTER BRANCH AS OF 2400Z ON DECEMBER 31, 1977.

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

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

NOTE: The Satellite Situation Report dated October 31, 1977,
contained an entry in the "Objects Decayed Within the
Reporting Period" that 1977 042P, object number 10349,
decayed on September 21, 1977. That entry was in error.
The object is still in orbit.

SPACE OBJECTS BOX SCORE

	OBJECTS IN ORBIT	DECAYED OBJECTS
AUSTRALIA	1	1
CANADA	8	0
ESA	4	0
ESRO	1	9
FRANCE	54	26
FRANCE/FRG	2	0
FRG	9	3
INDIA	1	0
INDONESIA	2	0
INTERNATIONAL TELECOM- MUNICATIONS SATELLITE ORGANIZATION (ITSO)	22	0
ITALY	1	4
JAPAN	27	0
NATC	4	0
NETHERLANDS	0	4
PRC	6	14
SPAIN	1	0
UK	11	4
US	2928	1523
USSR	1439	4456
TOTAL	4521	6044

		OBJECTS IN ORBIT								
INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL I-NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1958 LAUNCHES										
BETA 1		16	US	17 MAR	138.2	34.2	4305	648		
BETA 2	VANGUARD 1	5	US	17 MAR	133.8	34.2	3919	653		
BETA 3		1576	US	17 MAR	131.3	34.2	3720	641		
1959 LAUNCHES										
ALPHA 1	VANGUARD 2	11	US	17 FEB	124.8	32.8	3230	557		
ALPHA 2		12	US	17 FEB	129.0	32.9	3604	557		
ALPHA 3		5807	US	17 FEB	126.6	32.8	3384	561		
ETA 1	VANGUARD 3	20	US	18 SEP	128.9	33.3	3642	510		
IOTA 1	EXPLCRER 7	22	US	13 OCT	100.6	50.2	1031	547		
ICTA 2		23	US	13 OCT	99.7	50.2	954	538		
NU 1	LUNIK 1	112	USSR	2 JAN						
NU 1	PIONEER 4	113	US	3 MAR						
1960 LAUNCHES										
ALPHA 1	PIONEER 5	27	US	11 MAR						
BETA 1		28	US	1 APR	98.6	48.3	712	672		
BETA 2	TIROS 1	29	US	1 APR	99.0	48.3	735	688		
BETA 3		101	US	1 APR	97.0	48.5	650	587		
BETA 4		115	US	1 APR	99.6	48.1	792	689		
GAMMA 4		99	US	13 APR	94.2	51.2	539	420		
ETA 1	TRANSIT 2A	45	US	22 JUN	101.4	66.6	1043	613		
ETA 2	GREB	46	US	22 JUN	101.3	66.6	1032	610		
ETA 3		47	US	22 JUN	101.1	66.6	1020	611		
ETA 4		840	US	22 JUN	100.9	66.6	1007	605		
ETA 5		841	US	22 JUN	100.9	66.6	1005	603		
IOTA 2		50	US	12 AUG	118.0	47.2	1684	1301		
IOTA 3		51	US	12 AUG	118.2	47.2	1688	1515		
IOTA 4		52	US	12 AUG						
ICTA 5		53	US	12 AUG	118.4	47.2	1687	1532		
NU 1	COURIER 1B	58	US	4 OCT	107.0	28.3	1210	962		
NU 2		59	US	4 OCT	106.5	28.2	1206	922		
XI 1	EXPLORER 8	60	US	3 NOV	109.9	49.9	2038	413		
XI 2		62	US	3 NOV	106.6	49.0	1736	409		
PI 1	TIROS 2	63	US	23 NOV	97.9	48.5	710	609		
PI 2		64	US	23 NOV	97.0	48.5	657	578		
PI 3		74	US	23 NOV	97.5	48.5	681	597		
PI 4		75	US	23 NOV	97.7	48.5	695	601		
PI 5		5922	US	23 NOV	105.2	47.0	1038	977		
1961 LAUNCHES										
GAMMA 1	VENUS PRCE	80	USSR	12 FEB						
DELTA 2		82	US	16 FEB	118.3	38.8	2577	637		
DELTA 3		85	US	16 FEB	116.7	38.8	2452	612		
DELTA 5		3738	US	16 FEB	116.4	38.8	2428	611		
DELTA 6		3927	US	16 FEB	116.4	38.8	2419	619		
DELTA 7		4026	US	16 FEB	115.7	38.8	2391	583		
NU 1	EXPLORE 11	107	US	27 APR	107.1	28.7	1700	483		
NU 2		3739	US	27 APR	104.6	28.8	1470	476		
OMICRON 1	TRANSIT 4A	116	US	29 JUN	103.7	66.8	991	893		
OMICRON 2	INJUN-SR-3	117	US	29 JUN	103.7	66.8	993	884		
OMICRON 3		256	US	29 JUN						
RHO 1	TIRCS 3	162	US	12 JUL	100.3	47.9	809	736		
RHO 2		165	US	12 JUL	100.0	47.9	791	726		
RHO 3		166	US	12 JUL	98.3	47.9	758	598		
RHO 4		167	US	12 JUL	101.8	47.8	926	769		
SIGMA 1	MIDAS 3	163	US	12 JUL	161.4	91.1	3543	3347		
SIGMA 3		188	US	12 JUL	161.1	91.1	3533	3330		
SIGMA 4		196	US	12 JUL	161.8	91.1	3579	3344		
A DELTA 1	MIDAS 4	192	US	21 OCT	165.9	95.8	3757	3495		

ALL INFORMATION CONTAINED
 HEREIN IS UNCLASSIFIED

DATE OF CLASSIFICATION
 11/19/2001 BY SP-6 BTJ/STP

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1961 LAUNCHES (CONT.)											
A DELTA 3			194	US	21 OCT	165.5	95.8	3778	3441		
A DELTA 4			195	US	21 OCT	166.3	95.8	3841	3444		
A DELTA 5			2009	US	21 OCT	165.7	95.8	3734	3498		
A DELTA 6			2371	US	21 OCT	165.5	95.8	4365	2854		
A ETA 1	TRANSIT 4B		202	US	15 NOV	105.7	32.4	1104	951		
A ETA 2	TRAAC		205	US	15 NOV	105.7	32.4	1106	953		
A ETA 3			204	US	15 NOV	105.6	32.4	1096	947		
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	100.2	48.3	836	705		
BETA 2			227	US	8 FEB	101.1	48.1	931	697		
BETA 3			228	US	8 FEB	99.2	48.4	748	692		
BETA 4			229	US	8 FEB	99.9	48.3	813	695		
ZETA 1	OSO 1		255	US	7 MAR	95.0	32.8	534	506		
KAPPA 1			271	US	9 APR	152.9	86.6	3411	2784		
KAPPA 3			273	US	9 APR	152.6	86.6	3390	2773		
KAPPA 4			274	US	9 APR	153.3	86.6	3433	2790		
MU 2			282	US	23 APR	HELIOCENTRIC ORBIT					
A ALPHA 1	TIROS 5		309	US	19 JUN	100.2	58.0	953	588		
A ALPHA 2			311	US	19 JUN	99.5	58.0	903	575		
A ALPHA 3			312	US	19 JUN	101.3	58.2	1051	598		
A ALPHA 4			313	US	19 JUN	98.4	57.9	812	559		
A EPSILON 1	TELSTAR 1		340	US	10 JUL	157.7	44.7	5635	951		
A EPSILON 2			341	US	10 JUL	157.6	44.7	5623	949		
A CMICRON 1			369	US	23 AUG	99.3	98.3	841	611		
A CMICRON 2			370	US	23 AUG	96.5	98.5	637	548		
A CMICRON 3			378	US	23 AUG	100.1	98.4	922	611		
A CMICRON 4			388	US	23 AUG	99.0	98.5	820	607		
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	98.5	58.3	694	683		
A PSI 2			398	US	18 SEP	97.8	58.3	663	651		
A PSI 3			399	US	18 SEP	99.0	58.4	751	678		
A PSI 4			400	US	18 SEP	97.4	58.1	658	610		
B ALPHA 1	ALOUETTE 1	CANADA	424		26 SEP	105.4	80.4	1033	997		
B ALPHA 2			426	US	29 SEP	105.3	80.4	1029	999		
B ALPHA 3			510	US	29 SEP	105.3	80.5	1023	997		
B ALPHA 4			511	US	29 SEP	105.4	80.4	1041	990		
B GAMMA 1	EXPLCRER 14		432	US	2 OCT	CURRENT ELEMENTS NOT MAINTAINED					
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	107.8	50.1	1182	1075		
B MU 2			447	US	31 OCT	107.6	50.1	1166	1065		
B NU 3			450	USSR	1 NOV	HELIOCENTRIC ORBIT					
B UPSILON 1	RELAY 1		503	US	13 DEC	185.0	47.5	7438	1319		
B UPSILON 2			515	US	13 DEC	184.8	47.5	7419	1320		
B CHI 1	EXPLCRER 16		506	US	16 DEC	104.3	52.0	1174	748		
B PSI 1	TRANSIT 5A		509	US	19 DEC	98.3	90.6	699	664		
B PSI 3			519	US	19 DEC	98.4	90.6	702	667		
B PSI 4			523	US	19 DEC	98.7	90.4	748	648		
1963 LAUNCHES											
1963 004A	SYNCCM 1		553	US	14 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1963 004B			532	US	14 FEB	306.3	32.6	17115	236		
1963 005A			533	US	19 FEB	95.4	100.4	620	459		
1963 005B			534	US	19 FEB	96.6	100.4	714	486		
1963 005D			536	US	19 FEB	93.4	100.4	478	411		
1963 008B			566	USSR	2 APR	BARYCENTRIC ORBIT					
1963 013A	TELSTAR 2		573	US	7 MAY	225.2	42.7	10802	969		

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
PROJECTS IN ORBIT										
1963 LAUNCHES (CCNT.)										
1963 013B		575	US	7 MAY	225.0	42.7	10788	965		
1963 014A		574	US	9 MAY	166.4	87.3	3676	3614		
1963 014B		579	US	9 MAY	166.2	87.4	4088	3185		
1963 014C		608	US	9 MAY	166.4	87.3	3732	3558		
1963 014D	- 014CE		US	9 MAY	SEE NOTE		2*			2*
1963 022A		594	US	16 JUN	99.1	89.9	731	704		
1963 022B		603	US	16 JUN	99.2	89.9	740	710		
1963 022C		610	US	16 JUN	100.5	90.1	854	721		
1963 024A	TIROS 7	604	US	19 JUN	97.0	58.2	630	602		
1963 024B		605	US	19 JUN	94.4	58.1	502	482		
1963 024C		606	US	19 JUN	97.2	58.3	638	612		
1963 024D		607	US	19 JUN	95.2	58.0	552	509		
1963 025B		614	US	27 JUN	126.9	82.1	3647	336		
1963 026A	RESEARCH SATELLITE FOR GEOPHYSICS	612	US	28 JUN	99.4	49.7	1056	403		
1963 030A		622	US	18 JUL	167.8	88.3	3722	3681		
1963 030B		635	US	18 JUL	167.8	88.4	3724	3680		
1963 030C		630	US	18 JUL	167.4	88.3	3794	3581		
1963 030E		631	US	18 JUL	168.2	88.4	3774	3664		
1963 030F		3121	US	18 JUL	166.6	87.3	3721	3586		
1963 030G		3132	US	18 JUL	CURRENT ELEMENTS		NOT MAINTAINED			
1963 031A	SYNCCM 2	634	US	26 JUL	CURRENT ELEMENTS		NOT MAINTAINED			
1963 031B		625	US	26 JUL	170.5	32.6	7320	294		
1963 035A		669	US	28 SEP	107.0	89.8	1112	1072		
1963 038B		670	US	28 SEP	107.3	89.8	1133	1074		
1963 038C	SN 39	671	US	28 SEP	107.2	89.8	1131	1073		
1963 038D		672	US	28 SEP	107.0	89.8	1114	1067		
1963 038E		745	US	28 SEP	106.9	89.8	1106	1067		
1963 038F		2097	US	28 SEP	107.0	89.8	1121	1062		
1963 038G		2166	US	28 SEP	107.3	89.8	1133	1073		
1963 038H		7259	US	28 SEP	106.6	89.8	1098	1051		
1963 039A		674	US	17 OCT	CURRENT ELEMENTS		NOT MAINTAINED			
1963 039B		675	US	17 OCT	CURRENT ELEMENTS		NOT MAINTAINED			
1963 039C		692	US	17 OCT	CURRENT ELEMENTS		NOT MAINTAINED			
1963 043A	POLYOT 1	683	USSR	1 NOV	98.4	58.8	1047	326		
1963 047A	CENTAUR 2	694	US	27 NOV	106.9	30.3	1696	472		
1963 047B	- 047P		US	27 NOV	SEE NOTE		3*			
1963 049A		703	US	5 DEC	106.7	89.9	1089	1068		
1963 049B		704	US	5 DEC	107.0	89.9	1121	1065		
1963 049C		705	US	5 DEC	107.0	89.9	1119	1065		
1963 049D		706	US	5 DEC	106.9	89.9	1108	1062		
1963 049E		715	US	5 DEC	106.7	89.8	1102	1054		
1963 049F		753	US	5 DEC	106.9	89.9	1114	1062		
1963 049G		2432	US	5 DEC	107.0	89.9	1119	1065		
1963 049H		2620	US	5 DEC	106.6	89.8	1084	1064		
1963 049J		2930	US	5 DEC	103.5	89.8	1013	845		
1963 049K		4566	US	5 DEC	103.2	89.7	1049	774		
1963 049L		6182	US	5 DEC	103.3	89.7	1058	775		
1963 049M		6283	US	5 DEC	103.3	89.7	1056	781		
1963 053A	EXPLORER 19	714	US	19 DEC	110.5	78.8	1634	876		
1963 053B		721	US	19 DEC	115.6	78.6	2369	603		
1963 053D		723	US	19 DEC	114.4	78.7	2150	709		
1963 053E		724	US	19 DEC	114.4	78.7	2181	681		
1963 053G		726	US	19 DEC	113.7	78.6	2142	661		
1963 053H		732	US	19 DEC	114.3	78.7	2167	689		
1963 053J		3750	US	19 DEC	114.1	78.6	2160	674		
1963 054A	TIROS 8	716	US	21 DEC	99.2	58.4	745	696		
1963 054B		717	US	21 DEC	98.7	58.4	723	675		
1963 054C		720	US	21 DEC	100.8	58.4	909	692		
1963 054D		736	US	21 DEC	96.6	58.5	648	551		
1964 LAUNCHES										
1964 001A		727	US	11 JAN	103.4	69.9	930	917		
1964 001B	GRAVITY GRADIENT 1	728	US	11 JAN	103.3	69.9	928	910		
1964 001C	EGRS 1	729	US	11 JAN	103.4	69.8	920	911		

INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT							TRANSMITTING		NOTES
DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	FREQ. (MHZ)		
1964 LAUNCHES (CCNT.)											
1964 001D	SOLAP RAD.	730	US	11 JAN	103.4	69.9	929	911			
1964 001E		731	US	11 JAN	103.4	69.9	930	911			
1964 002A		733	US	19 JAN	101.1	99.0	844	787			
1964 002B		734	US	19 JAN	101.1	99.0	828	805			
1964 002C		735	US	19 JAN	101.2	99.1	831	806			
1964 003A	RELAY 2	737	US	21 JAN	194.7	46.3	7471	2027			
1964 003B		738	US	21 JAN	194.7	46.3	7478	2025			
1964 004B		741	US	25 JAN	108.8	81.4	1306	1046			
1964 004C		742	US	25 JAN	108.7	81.4	1307	1040			
1964 004D		743	US	25 JAN	108.7	81.5	1304	1039			
1964 006A	ELEKTRON 1	746	USSR	30 JAN	167.4	60.8	6961	408			
1964 006B	ELEKTRON 2	748	USSR	30 JAN	1356.3	65.5	65940	2481			
1964 006C		750	USSR	30 JAN	160.1	60.8	6363	415			
1964 006D		751	USSR	30 JAN	1384.0	64.7	67346	2177			
1964 016D	ZOND 1	785	USSR	2 APR	HELIOCENTRIC ORBIT						
1964 026A		801	US	4 JUN	102.8	90.5	942	851			
1964 026B		805	US	4 JUN	103.4	90.1	960	887			
1964 026C		806	US	4 JUN	101.8	90.8	922	769			
1964 026D		809	US	4 JUN	102.9	90.5	947	853			
1964 026E		2986	US	4 JUN	102.9	90.5	945	853			
1964 031A		812	US	18 JUN	101.5	99.7	835	827			
1964 031B		813	US	18 JUN	101.5	99.7	836	829			
1964 031C		815	US	18 JUN	101.4	99.7	838	820			
1964 038A	ELEKTRON 3	829	USSR	10 JUL	166.0	60.8	6859	403			
1964 038B	ELEKTRON 4	830	USSR	10 JUL	1313.4	69.3	63227	3472			
1964 038C		831	USSR	10 JUL	159.4	60.8	6316	406			
1964 038D		832	USSR	10 JUL	1319.0	69.2	63639	3285			
1964 040A		836	US	17 JUL	CURRENT ELEMENTS NOT MAINTAINED						
1964 040B		837	US	17 JUL	CURRENT ELEMENTS NOT MAINTAINED						
1964 040C		838	US	17 JUL	CURRENT ELEMENTS NOT MAINTAINED						
1964 041B		843	US	28 JUL	BARYCENTRIC ORBIT						
1964 045B		851	US	14 AUG	99.6	95.4	1238	248			
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	714.7	71.6	37549	2656			
1964 049E		898	USSR	22 AUG	718.2	71.6	37737	2639			
1964 051A	EXPLORER 20	870	US	25 AUG	103.8	79.8	1016	867			
1964 051B		871	US	25 AUG	103.7	79.8	1007	864			
1964 053A	COSMOS 44	876	USSR	28 AUG	99.3	65.0	856	599			
1964 053B		877	USSR	28 AUG	99.4	65.0	798	672			
1964 054A	OGO 1	879	US	5 SEP	CURRENT ELEMENTS NOT MAINTAINED						
1964 063A		893	US	6 OCT	106.2	89.8	1078	1034			
1964 063B		897	US	6 OCT	106.5	89.8	1082	1054			
1964 063C		900	US	6 OCT	106.3	89.8	1071	1043			
1964 063D		901	US	6 OCT	106.5	89.8	1082	1055			
1964 063E		902	US	6 OCT	106.5	89.8	1083	1055			
1964 063F		903	US	6 OCT	106.3	89.8	1069	1046			
1964 064A	EXPLORER 22	899	US	10 OCT	104.6	79.6	1075	885			
1964 064B		907	US	10 OCT	104.6	79.6	1075	886			
1964 064C		976	US	10 OCT	103.8	79.3	1050	832			
1964 064D		977	US	10 OCT	105.3	80.0	1116	907			
1964 073A	MARINER 3	923	US	5 NOV	HELIOCENTRIC ORBIT						
1964 074A	EXPLORER 23	924	US	6 NOV	97.5	51.9	837	448			
1964 076B	EXPLORER 25	932	US	21 NOV	115.8	81.3	2461	530			
1964 076C		933	US	21 NOV	115.6	81.3	2445	531			
1964 076D		934	US	21 NOV	111.0	81.3	2028	521			
1964 076E		935	US	21 NOV	111.1	81.3	2038	522			
1964 076G		937	US	21 NOV	109.1	81.3	1876	504			
1964 076J		941	US	21 NOV	111.9	81.3	2112	523			
1964 076K		960	US	21 NOV	111.9	81.3	2087	550			
1964 076N		940	US	21 NOV	108.6	81.3	1811	519			
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		953	US	13 DEC	106.1	89.7	1072	1021			
1964 083B		956	US	13 DEC	106.1	89.7	1081	1018			

INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT							TRANSMITTING FREQ. (MHZ)	NOTES
DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.		
1964 LAUNCHES (CONT.)										
1964 083C		959	US	13 DEC	106.2	89.7	1084	1021		
1964 083D		965	US	13 DEC	106.2	89.7	1086	1024		
1964 083E		966	US	13 DEC	106.2	89.7	1084	1021		
1964 083F		967	US	13 DEC	106.1	89.7	1080	1018		
1964 083G		1099	US	13 DEC	106.2	89.7	1084	1020		
1964 083H		1528	US	13 DEC	103.7	89.8	993	883		
1964 083J		1608	US	13 DEC	106.0	89.7	1074	1014		
1964 083K		2798	US	13 DEC	101.1	89.7	854	776		
1964 083L		5444	US	13 DEC	101.1	89.7	857	772		
1964 083M		5540	US	13 DEC	101.3	89.7	854	796		
1964 086A	EXPLORER 26	963	US	21 DEC	CURRENT	ELEMENTS NOT MAINTAINED				
1964 086C		5992	US	21 DEC	6108.9	18.0	129685	78952		
1965 LAUNCHES										
1965 003A		973	US	19 JAN	94.5	98.7	578	413		
1965 004A	TIROS 9	978	US	22 JAN	119.1	96.4	2579	705		
1965 004B		979	US	22 JAN	119.1	96.4	2584	705		
1965 004C		1312	US	22 JAN	117.9	96.3	2502	675		
1965 004D		1313	US	22 JAN	120.3	96.3	2659	733		
1965 007A	OSO 2	587	US	3 FEB	95.8	32.8	591	527		
1965 008A		1001	US	11 FEB	145.3	32.1	2794	2761		
1965 008B		1000	US	11 FEB	145.6	32.1	2796	2781		
1965 008C		1002	US	11 FEB	145.7	32.1	2805	2779		
1965 009A	PEGASUS 1	1085	US	16 FEB	93.2	31.7	461	349		
1965 009B		1088	US	16 FEB	96.1	31.7	667	482		
1965 010B		1087	US	17 FEB	BARYCENTRIC ORBIT					
1965 014A	COSMOS 5E	1097	USSR	26 FEB	96.3	65.0	614	556		
1965 014B		1098	USSR	26 FEB	96.1	65.0	642	506		
1965 016A	GREB	1271	US	9 MAR	103.4	70.0	939	904		
1965 016B	GRAVITY GRADIENT 2	1244	US	9 MAR	103.4	70.0	940	905		
1965 016C	GRAVITY GRADIENT 3	1292	US	9 MAR	103.3	70.0	937	902		
1965 016D	SOLAR RAC.	1291	US	9 MAR	103.4	70.0	940	905		
1965 016E	EGRS 3	1208	US	9 MAR	103.4	70.0	939	905		
1965 016F	OSCAR 3	1293	US	9 MAR	103.3	70.0	934	899		
1965 016G	SURCAL	1310	US	9 MAR	101.8	70.0	858	833		
1965 016H	DODECAEDRON	1272	US	9 MAR	103.4	70.0	941	904		
1965 016J		1245	US	9 MAR	103.4	70.0	938	902		
1965 020D	020FE		USSR	15 MAR	SFE NOTE	4*			4*	
1965 021A		1273	US	18 MAR	96.8	99.0	703	512		
1965 021C		1289	US	18 MAR	95.1	99.0	583	475		
1965 021F		1463	US	18 MAR	95.5	99.0	619	476		
1965 023B		1298	US	21 MAR	HELIOCENTRIC ORBIT					
1965 027A		1314	US	3 APR	111.5	90.2	1320	1273		
1965 027B	EGRS 4	1315	US	3 APR	111.4	90.2	1318	1270		
1965 027C		1316	US	3 APR	111.1	90.2	1317	1246		
1965 027D		1389	US	3 APR	111.1	90.2	1305	1260		
1965 027E		1399	US	3 APR	101.0	90.5	868	748		
1965 028A	EARLY EIRD	1317	ITSO	6 APR	CURRENT ELEMENTS NOT MAINTAINED					
1965 028B		1318	US	6 APR	CURRENT ELEMENTS NOT MAINTAINED					
1965 030A	MOLNIYA 1	1324	USSR	23 APR	720.4	64.6	39848	637		
1965 030D		1967	USSR	23 APR	702.5	64.7	39061	539		
1965 032A	EXPLORER 27	1328	US	29 APR	107.7	41.1	1318	929	136.740	
1965 032B		1358	US	29 APR	107.7	41.1	1317	930	5*	
1965 032C		1995	US	29 APR	106.2	41.1	1376	731		
1965 032D		2011	US	29 APR	108.8	41.1	1266	1079		
1965 034A		1359	US	6 MAY	157.0	32.1	3741	2781		
1965 034B		1360	US	6 MAY	309.8	32.1	14802	2778		
1965 034C		1361	US	6 MAY	145.5	32.1	2797	2776		
1965 034D		2529	US	6 MAY	309.8	32.1	14800	2776		
1965 038A		1377	US	20 MAY	99.5	98.0	928	548		
1965 038B		1378	US	20 MAY	99.3	98.0	912	546		
1965 038C		1379	US	20 MAY	98.8	98.2	864	543		
1965 038E		1461	US	20 MAY	99.8	98.2	953	543		
1965 038F		1462	US	20 MAY	96.8	98.5	703	516		
1965 038G		1475	US	20 MAY	99.0	98.0	893	540		

INTERNATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1965 LAUNCHES (CONT.)											
1965	039A	PEGASUS 2	1381	US	25 MAY	95.1	31.7	582	462		
1965	039B		1385	US	25 MAY	96.4	31.7	681	494		
1965	044A	LUNIK 6	1393	USSR	8 JUN						
1965	048A		1420	US	24 JUN	106.8	89.8	1139	1025		
1965	048B		1428	US	24 JUN	106.5	89.8	1114	1024		
1965	048C		1425	US	24 JUN	106.8	89.8	1139	1026		
1965	048D		1435	US	24 JUN	106.6	89.8	1129	1018		
1965	048E		2701	US	24 JUN	106.4	89.8	1108	1019		
1965	048F		3592	US	24 JUN	106.4	89.8	1108	1020		
1965	051A	TIROS 10	1430	US	2 JUL	100.5	98.1	834	739		
1965	051B		1433	US	2 JUL	100.5	98.2	830	738		
1965	051C		1440	US	2 JUL	98.8	98.5	803	602		
1965	051D		1529	US	2 JUL	101.9	98.6	881	820		
1965	053B	COSMOS 72	1442	USSR	16 JUL	93.9	56.0	495	452		
1965	053D	COSMOS 74	1444	USSR	16 JUL	94.5	56.0	516	473		
1965	053E	COSMOS 75	1445	USSR	16 JUL	94.5	56.0	517	476		
1965	053F		1448	USSR	16 JUL	95.6	56.0	589	509		
1965	056A	ZOND 3	1454	USSR	18 JUL						
1965	058A		1458	US	20 JUL						
1965	058B		1459	US	20 JUL						
1965	058C		1460	US	20 JUL						
1965	063A	EGRS 5	1506	US	10 AUG	122.2	69.2	2426	1134		
1965	063B		1502	US	10 AUG	122.2	69.2	2424	1137		
1965	064A	CENTAUR 6	1503	US	11 AUG						
1965	065A		1504	US	13 AUG	108.0	90.0	1186	1084		
1965	065B		1508	US	13 AUG	107.8	89.9	1158	1097		
1965	065C		1510	US	13 AUG	107.4	90.0	1162	1060		
1965	065D		1511	US	13 AUG	108.0	89.9	1189	1088		
1965	065E		1512	US	13 AUG	108.0	90.0	1191	1088		
1965	065F		1514	US	13 AUG	108.0	90.0	1191	1087		
1965	065G		1515	US	13 AUG	107.8	89.9	1178	1077		
1965	065H		1520	US	13 AUG	108.0	90.0	1190	1086		
1965	065J		1521	US	13 AUG	108.0	89.9	1190	1088		
1965	065K		1577	US	13 AUG	108.0	89.9	1190	1086		
1965	065L		1522	US	13 AUG	108.1	90.0	1192	1098		
1965	065M		2335	US	13 AUG	106.0	89.9	1125	960		
1965	065N		3809	US	13 AUG	105.9	90.0	1084	995		
1965	065P		3810	US	13 AUG	105.1	89.9	1051	956		
1965	065Q		5265	US	13 AUG	107.8	89.9	1159	1099		
1965	065R		5363	US	13 AUG	105.2	89.9	1053	962		
1965	065S		6290	US	13 AUG	106.0	90.0	1080	1006		
1965	070A	COSMOS 80	1570	USSR	3 SEP	114.9	56.0	1546	1361		
1965	070B	COSMOS 81	1571	USSR	3 SEP	115.3	56.0	1549	1391		
1965	070C	COSMOS 82	1572	USSR	3 SEP	115.6	56.0	1556	1416		
1965	070D	COSMOS 83	1573	USSR	3 SEP	116.0	56.0	1562	1443		
1965	070E	COSMOS 84	1574	USSR	3 SEP	116.4	56.0	1571	1469		
1965	070F		1575	USSR	3 SEP	114.5	56.1	1511	1362		
1965	070G		3045	USSR	3 SEP	116.0	55.4	1737	1266		
1965	072A		1580	US	10 SEP	101.7	98.8	1041	648		
1965	072D		1583	US	10 SEP	101.6	98.8	1028	646		
1965	072E		1931	US	10 SEP	103.0	98.7	1156	647		
1965	072F		1932	US	10 SEP	100.3	98.3	909	641		
1965	073A	COSMOS 86	1584	USSR	18 SEP	115.0	56.0	1633	1282		
1965	073B	COSMOS 87	1585	USSR	18 SEP	115.4	56.0	1642	1310		
1965	073C	COSMOS 88	1586	USSR	18 SEP	115.8	56.0	1653	1333		
1965	073D	COSMOS 89	1587	USSR	18 SEP	116.2	56.0	1664	1359		
1965	073E	COSMOS 90	1588	USSR	18 SEP	116.6	56.0	1676	1385		
1965	073F		1589	USSR	18 SEP	116.8	56.0	1686	1388		
1965	073G		1590	USSR	18 SEP	116.3	56.0	1648	1383		
1965	073H		1591	USSR	18 SEP	116.6	56.0	1676	1376		
1965	073J		1617	USSR	18 SEP	117.3	56.1	1749	1373		
1965	073K		1618	USSR	18 SEP	117.5	56.1	1758	1386		
1965	073L		2647	USSR	18 SEP	116.0	56.0	1653	1356		
1965	078A		1613	US	5 OCT	123.5	144.2	3263	411		
1965	078B		1616	US	5 OCT	123.1	144.2	3229	410		
1965	081A	OGO 2	1620	US	14 OCT	100.3	87.3	1149	401		

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1965 LAUNCHES (CONT.)											
1965 081B			1625	US	14 OCT	101.3	87.3	1240	408		
1965 082B	- 082UJ			US	15 OCT	SEE NOTE		6*			6*
1965 089A	EXPLORER 29		1726	US	6 NOV	120.3	59.3	2276	1114		
1965 089B			1729	US	6 NOV	120.2	59.3	2274	1114		
1965 089C			2700	US	6 NOV	119.1	59.5	2226	1062		
1965 089D			2888	US	6 NOV	121.3	59.2	2322	1158		
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	100.6	59.7	902	677		
1965 093B			1739	US	19 NOV	100.5	59.7	872	701		
1965 093C			2013	US	19 NOV	99.9	59.6	820	692		
1965 093D			2088	US	19 NOV	101.1	59.7	916	711		
1965 096A	A-1		1778	FRANCE	26 NOV	108.4	34.2	1776	526		
1965 096B			1805	FRANCE	26 NOV	108.1	34.2	1753	324		
1965 096D			1996	FRANCE	26 NOV	107.1	34.2	1665	524		
1965 098A	ALOUETTE 2		1804	CANADA	29 NOV	120.7	79.8	2919	508		
1965 098B	EXPLORER 31		1806	US	29 NOV	121.1	79.8	2955	508		
1965 098C			1807	US	29 NOV	120.8	79.8	2923	509		
1965 098D			1808	US	29 NOV	118.2	79.8	2705	505		
1965 098E			1944	US	29 NOV	118.1	79.7	2691	505		
1965 098F			1948	US	29 NOV	119.6	79.8	2819	511		
1965 098G			1951	US	29 NOV	119.5	79.7	2812	508		
1965 098H			2092	US	29 NOV	120.7	79.8	2921	510		
1965 098J			2153	US	29 NOV	120.5	79.7	2910	506		
1965 101A	FR-1		1814	FRANCE	6 DEC	99.7	75.8	752	739		
1965 101B			1815	US	6 DEC	99.7	75.8	756	742		
1965 101C			1934	FRANCE	6 DEC	98.9	76.4	734	684		
1965 101D			1935	FRANCE	6 DEC	98.2	75.2	706	642		
1965 105A	PIONEER 6		1841	US	16 DEC	HELIOCENTRIC ORBIT					
1965 106A	COSMOS 100		1843	USSR	17 DEC	97.3	64.9	728	538		
1965 106B			1844	USSR	17 DEC	97.2	64.9	642	612		
1965 108B	LES 4		1870	US	21 DEC	CURRENT ELEMENTS NOT MAINTAINED					
1965 108C	OSCAR 4		1902	US	21 DEC	CURRENT ELEMENTS NOT MAINTAINED					
1965 109A			1864	US	22 DEC	104.9	89.0	1082	904		
1965 109B			1865	US	22 DEC	104.9	89.0	1082	905		
1965 109C			2086	US	22 DEC	103.2	89.1	943	883		
1965 109D			2226	US	22 DEC	107.1	89.0	1289	900		
1965 109E			2353	US	22 DEC	105.3	89.4	1134	909		
1965 112A	COSMOS 103		1868	USSR	28 DEC	96.4	56.0	609	569		
1965 112B			1869	USSR	28 DEC	96.3	56.0	606	566		
1965 112Q			1937	USSR	28 DEC	96.5	55.9	625	563		
1966 LAUNCHES											
1966 000B			2429	UNKN	UNKN	CURRENT ELEMENTS NOT MAINTAINED					7*
1966 000C			2430	UNKN	UNKN	CURRENT ELEMENTS NOT MAINTAINED					7*
1966 005A			1952	US	28 JAN	105.8	89.7	1209	850		
1966 005B			1953	US	28 JAN	105.8	89.7	1211	859		
1966 005C			2140	US	28 JAN	107.7	89.9	1381	963		
1966 005D			2141	US	28 JAN	104.2	89.8	1073	844		
1966 005E			2889	US	28 JAN	109.5	89.5	1339	1079		
1966 005F			2989	US	28 JAN	104.2	89.7	1062	861		
1966 005G			4587	US	28 JAN	105.7	89.8	1050	1010		
1966 006D			2001	USSR	31 JAN	BARYCENTRIC ORBIT					
1966 008A	ESSA 1		1982	US	3 FEB	100.1	97.8	837	700		
1966 008B			1983	US	3 FEB	100.3	97.8	855	696		
1966 008C			2085	US	3 FEB	98.9	97.7	736	678		
1966 008D			2118	US	3 FEB	101.1	97.9	941	699		
1966 008E			2154	US	3 FEB	100.0	97.7	820	708		
1966 013A	D-1 A		2016	FRANCE	17 FEB	117.9	34.0	2671	502		
1966 013B			2017	FRANCE	17 FEB	117.7	34.0	2654	503		
1966 013F			2023	FRANCE	17 FEB	113.9	34.0	2330	477		
1966 013G			2161	FRANCE	17 FEB	117.0	34.1	2581	514		
1966 013J			3970	FRANCE	17 FEB	113.7	34.0	2298	492		
1966 013K			5420	FRANCE	17 FEB	113.5	34.0	2284	494		
1966 013L			5959	FRANCE	17 FEB	113.3	34.0	2267	492		

INTER-NATIONAL DESIGNATION		CATALOG NUMBER		SOURCE		PERIOD MINUTES		INCLINATION		APOGEE KM.		PERIGEE KM.		TRANSMITTING FREQ. (MHZ)		NOTES	
1966 L LAUNCHES (CONT.)																	
1966	016A	ESSA 2	2091	US	28	FEB	113.4	101.2	1417	1356							
1966	016B		2096	US	28	FEB	113.4	101.1	1418	1356							
1966	016C		2223	US	28	FEB	111.9	100.9	1387	1243							
1966	016D		2224	US	28	FEB	115.0	101.0	1567	1351							
1966	016E		6214	US	28	FEB	114.4	101.4	1522	1340							
1966	024A		2119	US	26	MAR	105.2	89.8	1118	893							
1966	024B		2120	US	26	MAR	105.2	89.8	1121	893							
1966	024C		2386	US	26	MAR	105.0	89.9	1105	894							
1966	024D		3590	US	26	MAR	97.8	89.7	680	633							
1966	025A	OV1-4	2121	US	30	MAR	104.0	144.4	1011	885							
1966	025B	OV1-5	2122	US	30	MAR	105.6	144.6	1056	985							
1966	025C		2123	US	30	MAR	105.6	144.6	1056	985							
1966	025D		2124	US	30	MAR	104.0	144.5	1010	885							
1966	025E		3611	US	30	MAR	105.0	144.5	1063	924							
1966	025G		5361	US	30	MAR	105.1	144.6	1039	938							
1966	025H		5599	US	30	MAR	105.0	144.5	1071	921							
1966	026A		2125	US	31	MAR	100.3	98.3	925	625							
1966	026B		2129	US	31	MAR	100.0	98.2	903	620							
1966	026D		2177	US	31	MAR	101.9	98.9	1083	624							
1966	026E		2178	US	31	MAR	97.8	98.5	715	601							
1966	026F		2179	US	31	MAR	99.7	98.1	874	619							
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	DAO 1	2142	US	8	APR	100.8	35.0	802	780							
1966	031B		2144	US	8	APR	100.7	35.0	798	782							
1966	031C		2145	US	8	APR	99.7	35.0	749	738							
1966	034A	OV3-1	2150	US	22	APR	147.3	82.4	5378	347							
1966	034B		2167	US	22	APR	141.7	82.4	4907	348							
1966	034D		3209	US	22	APR	134.2	82.4	4292	326							
1966	034E		3698	US	22	APR	144.9	82.3	5176	354							
1966	038A	COSMOS 118	2168	USSR	11	MAY	96.5	65.0	616	568							
1966	038B		2169	USSR	11	MAY	96.4	64.9	623	553							
1966	040A	NIMBUS 2	2173	US	15	MAY	108.0	100.5	1182	1095							
1966	040B		2174	US	15	MAY	107.8	100.4	1174	1083							
1966	041A		2176	US	19	MAY	103.2	89.8	977	852							
1966	041B		2180	US	19	MAY	103.3	89.8	982	854							
1966	041C		2225	US	19	MAY	100.9	89.8	842	767							
1966	041D		2644	US	19	MAY	105.4	89.8	1190	847							
1966	041E		3591	US	19	MAY	103.3	89.8	978	853							
1966	041F		4555	US	19	MAY	103.1	89.8	973	848							
1966	044A	EXPLORER 32	2183	US	25	MAY	107.0	64.5	1915	268							
1966	045B		2187	US	20	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	4725	641							
1966	052B		2206	US	10	JUN	143.0	40.8	4716	642							
1966	052C		2498	US	10	JUN	140.5	40.6	4572	576							
1966	052D		2516	US	10	JUN	145.1	41.0	4839	699							
1966	053A		2207	US	16	JUN	1333.9	4.2	33877	33645							
1966	053B		2215	US	16	JUN	1334.6	4.1	33867	33687							
1966	053C		2216	US	16	JUN	CURRENT ELEMENTS NOT MAINTAINED										
1966	053D		2217	US	16	JUN	1336.4	4.0	33923	33702							
1966	053E		2218	US	16	JUN	1338.5	4.2	34014	33694							
1966	053F		2219	US	16	JUN	1340.8	4.2	34120	33681							
1966	053G		2220	US	16	JUN	1343.9	4.2	34192	33734							
1966	053H		2221	US	16	JUN	CURRENT ELEMENTS NOT MAINTAINED										
1966	053J		2222	US	16	JUN	CURRENT ELEMENTS NOT MAINTAINED										
1966	056A	PAGEOS 1	2253	US	18	JUN	180.1	85.0	5697	2682							
1966	056B	OS6CF		US	24	JUN	SEE NOTE										
1966	057A	COSMOS 122	2254	USSR	25	JUN	96.4	64.9	610	572							
1966	057B		2257	USSR	25	JUN	96.2	64.9	653	505							
1966	058A	EXPLORER 33	2258	US	1	JUL	CURRENT ELEMENTS NOT MAINTAINED										
1966	058C		2260	US	1	JUL	CURRENT ELEMENTS NOT MAINTAINED										
1966	063A	OV1-8	2324	US	14	JUL	93.7	144.1	460	455							
1966	063B		2327	US	14	JUL	104.9	144.2	1004	978							

INTER-NATIONAL DESIGNATION		NAME		OBJECTS IN ORBIT				PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES		
1966 LAUNCHES (CONT.)										
1966 063C		2328	US	14 JUL	105.2	144.2	1010	996		
1966 063D		2329	US	14 JUL	105.2	144.2	1006	999		
1966 063E		2337	US	14 JUL	105.2	144.2	1008	1001		
1966 070A	OV3-3	2389	US	4 AUG	132.3	81.4	4096	357		
1966 070B		2404	US	4 AUG	127.0	81.4	3633	355		
1966 070D		2800	US	4 AUG	135.7	81.4	4326	421		
1966 073B	PIONEER 7	2395	US	10 AUG	BARYCENTRIC ORBIT					
1966 075A		2398	US	17 AUG	HELIOCENTRIC ORBIT					
1966 075C		2402	US	17 AUG	HELIOCENTRIC ORBIT					
1966 076A		2401	US	18 AUG	106.7	88.8	1103	1049		
1966 076B		2413	US	18 AUG	106.7	88.8	1103	1050		
1966 076C		2580	US	18 AUG	105.2	89.1	1085	929		
1966 076D		2702	US	18 AUG	108.2	89.5	1217	1081		
1966 076E		7558	US	18 AUG	106.1	88.8	1080	1022		
1966 076F		8000	US	18 AUG	106.2	88.8	1082	1027		
1966 076G		9401	US	18 AUG	106.5	88.8	1103	1029		
1966 077A		2403	US	19 AUG	167.4	89.8	3708	3665		
1966 077B	EGRS 7	2411	US	19 AUG	167.5	89.8	3703	3674		
1966 077C	ERS 15	2412	US	19 AUG	167.6	89.8	3703	3684		
1966 078A	LUNA 11	2406	USSR	24 AUG	SELENCENTRIC ORBIT					
1966 082A		2418	US	16 SEP	100.7	98.5	895	691		
1966 082B		2422	US	16 SEP	100.7	98.6	894	692		
1966 084B		2426	US	20 SEP	BARYCENTRIC ORBIT					
1966 087A	ESSA 3	2435	US	2 OCT	114.5	101.0	1487	1388		
1966 087B		2436	US	2 OCT	114.5	101.0	1488	1386		
1966 087C		2518	US	2 OCT	115.9	100.8	1562	1434		
1966 087D		2775	US	2 OCT	113.2	101.6	1476	1281		
1966 087E		6213	US	2 OCT	114.2	101.5	1467	1377		
1966 087F		8791	US	2 OCT	114.6	101.4	1549	1329		
1966 099A		2481	US	9 OCT	167.3	90.3	3700	3683		
1966 099B	EGRS 8	2520	USSR	9 OCT	167.6	90.3	3697	3691		
1966 094A	LUNA 12	2508	USSR	22 OCT	SELENCENTRIC ORBIT					
1966 095B		2513	US	25 OCT	BARYCENTRIC ORBIT					
1966 096A	INTELSAT 2 F-1	2514	ITSO	26 OCT	CURRENT ELEMENTS NOT MAINTAINED					
1966 110A	ATS 1	2608	US	7 DEC	1435.3	8.6	35794	35786	136.470, 137.350 5*	
1966 111A	OV1-9	2610	US	11 DEC	141.6	99.1	4775	475		
1966 111B	OV1-10	2611	US	11 DEC	98.4	93.4	749	527		
1966 111C		2621	US	11 DEC	98.6	93.4	757	634		
1966 111D		2622	US	11 DEC	141.5	99.1	4762	477		
1967 LAUNCHES										
1967 001A	INTELSAT 2 F-2	2639	ITSC	11 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1967 001B	- 001X		US	11 JAN	SEE NOTE 9*					
1967 003A		2645	US	18 JAN	1329.5	3.8	33823	33523		
1967 003B		2649	US	18 JAN	1329.9	3.6	33831	33532		
1967 003C		2650	US	18 JAN	1330.6	3.6	33899	33494		
1967 003D		2651	US	18 JAN	1332.1	3.6	33875	33576		
1967 003E		2652	US	18 JAN	1334.1	3.7	33972	33559		
1967 003F		2653	US	18 JAN	1336.5	8.7	34018	33610		
1967 003G		2654	US	18 JAN	1339.5	3.8	34112	33636		
1967 003H		2655	US	18 JAN	1343.0	3.8	34237	33651		
1967 003J		2660	US	18 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1967 006A	ESSA 4	2657	US	26 JAN	113.4	101.9	1442	1327		
1967 006B		2661	US	26 JAN	113.6	101.9	1443	1344		
1967 006C		2706	US	26 JAN	114.2	102.0	1450	1395		
1967 006D		2707	US	26 JAN	112.6	101.8	1464	1232		
1967 006E		5971	US	26 JAN	113.1	101.9	1459	1284		
1967 010A		2669	US	8 FEB	101.4	99.1	866	788		
1967 010B		2741	US	8 FEB	101.4	99.1	870	784		
1967 011A	DIADEME 1	2674	FRANCE	8 FEB	103.7	39.9	1304	563		
1967 011B		2671	FRANCE	8 FEB	103.9	39.9	1321	563		
1967 011G		2688	FRANCE	8 FEB	100.8	40.0	1059	534		
1967 011H		2689	FRANCE	8 FEB	103.5	39.0	1314	538		
1967 011L		2692	FRANCE	8 FEB	101.8	39.0	1140	546		
1967 011M		2900	FRANCE	8 FEB	100.9	39.9	1073	533		

INTERNATIONAL DESIGNATION		OBJECTS IN ORBIT							TRANSMITTING FREQ. (MHZ)	NOTES
NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.			
1967 LAUNCHES (CONT.)										
1967 011N	2990	FRANCE	8 FEB	100.6	30.9	1047	532			
1967 011P	3742	FRANCE	8 FEB	101.1	39.9	1084	535			
1967 011Q	4009	FRANCE	8 FEB	108.4	39.4	1740	562			
1967 014A	2680	FRANCE	15 FEB	109.8	30.4	1851	585			
1967 014B	2682	FRANCE	15 FEB	110.0	30.4	1867	587			
1967 014C	2684	FRANCE	15 FEB	109.4	30.0	1817	580			
1967 014E	2683	FRANCE	15 FEB	108.0	30.4	1712	562			
1967 014F	2685	FRANCE	15 FEB	109.1	38.9	1793	572			
1967 014G	3589	FRANCE	15 FEB	115.1	38.8	2334	589			
1967 014H	3935	FRANCE	15 FEB	108.3	39.4	1736	561			
1967 018A	2695	USSR	28 FEB	96.1	81.1	597	552			
1967 018B	2696	USSR	28 FEB	96.3	81.2	663	506			
1967 020A	2703	US	8 MAR	94.8	32.8	519	499			
1967 026A	2717	ITSC	23 MAR	CURRENT ELEMENTS NOT MAINTAINED						
1967 027A	2720	USSR	24 MAR	96.7	56.0	627	574			
1967 027B	2721	USSR	24 MAR	96.5	56.0	621	569			
1967 034A	2754	US	14 APR	106.4	90.2	1077	1049			
1967 034B	2755	US	14 APR	106.5	90.2	1089	1052			
1967 034C	2777	US	14 APR	104.0	90.3	1069	836			
1967 034D	2778	US	14 APR	108.6	90.1	1263	1060			
1967 034E	4843	US	14 APR	104.4	90.2	985	959			
1967 034F	6718	US	14 APR	104.4	90.2	975	966			
1967 034G	7670	US	14 APR	105.9	90.2	1058	1020			
1967 035B	2764	US	17 APR	ECCENTRIC ORBIT						
1967 036A	2757	US	20 APR	113.5	101.8	1423	1356			
1967 036B	2758	US	20 APR	113.5	101.9	1422	1359			
1967 036C	2976	US	20 APR	112.3	102.1	1413	1261			
1967 036D	2977	US	20 APR	114.6	101.8	1486	1392			
1967 039A	2762	USSR	27 APR	96.4	81.1	611	565			
1967 039B	2763	USSR	27 APR	96.6	81.1	675	528			
1967 040A	2765	US	28 APR	6689.6	37.3	110465	102991			
1967 040B	2766	US	28 APR	6708.7	37.1	123849	99054			
1967 040C	2767	US	28 APR	CURRENT ELEMENTS NOT MAINTAINED						
1967 040D	2768	US	28 APR	CURRENT ELEMENTS NOT MAINTAINED						
1967 040E	2769	US	28 APR	CURRENT ELEMENTS NOT MAINTAINED						
1967 040F	2770	US	28 APR	CURRENT ELEMENTS NOT MAINTAINED						
1967 043B	2780	US	9 MAY	97.8	84.0	768	546			
1967 045A	2801	USSR	15 MAY	100.4	74.0	821	736			
1967 045B	2802	USSR	15 MAY	100.5	74.0	843	729			
1967 045C	2823	USSR	15 MAY	100.2	74.0	815	724			
1967 045D	3737	USSR	15 MAY	100.1	74.0	819	714			
1967 046F	2924	USSR	17 MAY	1059.9	52.0	55943	174			
1967 048A	2807	US	18 MAY	106.9	89.6	1098	1072			
1967 048B	2811	US	18 MAY	106.9	89.6	1098	1073			
1967 053A	2826	US	31 MAY	103.1	69.9	917	903			
1967 053B	2825	US	31 MAY	103.3	69.9	923	914			
1967 053C	2828	US	31 MAY	103.3	69.9	923	914			
1967 053D	2834	US	31 MAY	103.3	69.9	923	915			
1967 053E	2847	US	31 MAY	103.3	69.9	920	913			
1967 053F	2872	US	31 MAY	103.3	69.9	921	914			
1967 053G	2873	US	31 MAY	103.3	69.9	923	914			
1967 053H	2874	US	31 MAY	103.3	69.9	923	915			
1967 053J	2909	US	31 MAY	103.0	69.9	908	900			
1967 060A	2845	US	14 JUN	HELIOCENTRIC ORBIT						
1967 060B	2846	US	14 JUN	HELIOCENTRIC ORBIT						
1967 065A	2861	US	29 JUN	172.1	89.7	3941	3804			
1967 065B	2876	US	29 JUN	172.1	89.7	3937	3809			
1967 065C	2877	US	29 JUN	172.1	89.7	3920	3825			
1967 066A	2862	US	1 JUL	1309.7	3.9	33567	32983			
1967 066B	2863	US	1 JUL	1310.3	3.7	33588	32986			
1967 066C	2864	US	1 JUL	CURRENT ELEMENTS NOT MAINTAINED						
1967 066D	2865	US	1 JUL	1313.6	4.3	33558	33148			
1967 066E	2866	US	1 JUL	CURRENT ELEMENTS NOT MAINTAINED						
1967 066F	2867	US	1 JUL	CURRENT ELEMENTS NOT MAINTAINED						
1967 066G	2868	US	1 JUL	CURRENT ELEMENTS NOT MAINTAINED						
1967 068B	2883	US	14 JUL	ECCENTRIC ORBIT						

INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT		PERIOD	INCLI-	APOGEE	PERIGEE	TRANSMITTING	NOTES	
DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	NATION	KM.	KM.	FREQ.(MHZ)		
1967 LAUNCHES (CONT.)										
1967 070A	EXPLORER 35	2984	US	19 JUL	SELENOCENTRIC ORBIT					
1967 072D	OVI-12	2901	US	27 JUL	94.3	101.6	493	482		
1967 075B		290F	US	1 AUG	BARYCENTRIC ORBIT					
1967 080A		2920	US	23 AUG	102.1	98.6	889	831		
1967 080S		2940	US	23 AUG	102.1	98.6	889	831		
1967 084B		2938	US	8 SEP	BARYCENTRIC ORBIT					
1967 092A		2965	US	25 SEP	106.7	89.2	1111	1041		
1967 092B		2967	US	25 SEP	106.7	89.2	1110	1041		
1967 092C		2994	US	25 SEP	104.3	89.4	1043	888		
1967 092D		3122	US	25 SEP	109.1	89.0	1336	1040		
1967 094A	INTELSAT 2 F-4	2969	ITSO	28 SEP	CURRENT ELEMENTS NOT MAINTAINED					
1967 094C		2971	US	28 SEP	CURRENT ELEMENTS NOT MAINTAINED					
1967 096A		2980	US	11 OCT	99.9	99.1	852	665		
1967 096B		2985	US	11 OCT	99.9	99.1	849	665		
1967 100A	OSD 4	3000	US	18 OCT	94.9	32.9	529	503		
1967 100B		3004	US	18 OCT	94.4	32.9	499	479		
1967 102A	COSMOS 164	3010	USSR	24 OCT	96.5	81.1	609	583		
1967 102B		3011	USSR	24 OCT	96.8	81.1	682	533		
1967 104B		3019	USSR	27 OCT	98.1	64.0	856	489		
1967 108A	COSMOS 169	3021	USSR	30 OCT	92.2	73.9	392	370		
1967 108B		3023	USSR	30 OCT	94.3	73.9	504	474		
1967 111A	ATS 3	3029	US	5 NOV	1436.2	7.0	35860	35717	136.470, 137.350 5r	
1967 112B		3034	US	7 NOV	BARYCENTRIC ORBIT					
1967 114A	ESSA 6	3035	US	10 NOV	114.8	102.2	1486	1411		
1967 114B		3036	US	10 NOV	114.8	102.2	1487	1412		
1967 114C		3051	US	10 NOV	114.1	101.3	1487	1348		
1967 114D		3123	US	10 NOV	115.4	102.4	1493	1454		
1967 114E		5443	US	10 NOV	114.6	101.4	1480	1390		
1967 116A	COSMOS 192	3047	USSR	23 NOV	99.7	74.0	751	741		
1967 116B		3048	USSR	23 NOV	99.7	74.0	752	742		
1967 123A	PIONEER 8	3066	US	13 DEC	HELIOCENTRIC ORBIT					
1967 127A	COSMOS 198	3081	USSR	27 DEC	103.4	65.1	933	911		
1968 LAUNCHES										
1968 001B		3092	US	7 JAN	BARYCENTRIC ORBIT					
1968 002A	EXPLORER 36	3093	US	11 JAN	112.2	105.7	1576	1084		
1968 002B		3094	US	11 JAN	112.1	105.7	1560	1084		
1968 002C		3126	US	11 JAN	112.3	106.0	1587	1086		
1968 002D		3127	US	11 JAN	112.1	105.3	1576	1078		
1968 006C		3103	USSR	19 JAN	94.2	73.9	503	460		
1968 011A	COSMOS 203	3129	USSR	20 FEB	109.2	74.0	1204	1185		
1968 011B		3131	USSR	20 FEB	109.3	74.0	1207	1185		
1968 011C		3147	USSR	20 FEB	103.1	74.0	1101	720		
1968 012A		3133	US	2 MAR	106.9	89.9	1144	1024		
1968 012B		3137	US	2 MAR	106.9	89.9	1144	1025		
1968 012C		3213	US	2 MAR	105.1	89.8	1110	891		
1968 012D		3214	US	2 MAR	108.8	90.1	1323	1027		
1968 013A	ZOND 4	3134	USSR	2 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1968 014A	DGO 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	97.8	59.3	828	483		
1968 017B		3146	US	5 MAR	97.0	59.3	761	477		
1968 017D		3328	US	5 MAR	99.8	59.6	876	629		
1968 019A	COSMOS 206	3150	USSR	14 MAR	96.5	81.2	611	578		
1968 019B		3151	USSR	14 MAR	96.8	81.2	687	533		
1968 023A	COSMOS 209	3158	USSR	22 MAR	103.1	65.9	944	870		
1968 026A	OVI-13	3173	US	6 APR	199.4	99.9	9276	587		
1968 026B	OVI-14	3174	US	6 APR	207.7	99.9	9927	558		
1968 026C		3177	US	6 APR	207.9	99.9	9952	350		
1968 026D		3212	US	6 APR	199.3	99.9	9270	587		
1968 027A	LUNA 14	3179	USSR	7 APR	SELENOCENTRIC ORBIT					
1968 040A	COSMOS 220	3229	USSR	7 MAY	98.9	74.0	749	672		
1968 040B		3230	USSR	7 MAY	98.9	74.0	750	672		
1968 040C		3231	USSR	7 MAY	98.6	74.0	732	654		
1968 042A		3266	US	23 MAY	102.0	98.6	899	819		

INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT							TRANSMITTING FREQ. (MHZ)	NOTES
DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.		
1968 LAUNCHES (CONT.)										
1968 042B		3271	US	23 MAY	102.1	98.6	890	810		
1968 049A	COSMOS 226	3282	USSR	12 JUN	96.2	81.1	606	558		
1968 049B		3283	USSR	12 JUN	96.6	81.2	680	519		
1968 050A		3284	US	13 JUN	1335.2	2.4	33847	33728		
1968 050B		3285	US	13 JUN	1335.5	2.4	33855	33735		
1968 050C		3286	US	13 JUN	1336.3	2.3	33902	33719		
1968 050D		3287	US	13 JUN	1337.8	2.4	33962	33717		
1968 050E		3288	US	13 JUN	1339.8	2.4	34044	33716		
1968 050F		3289	US	13 JUN	1342.2	2.4	34112	33742		
1968 050G		3290	US	13 JUN	1345.3	2.4	34260	33721		
1968 050H		3291	US	13 JUN	1348.7	2.3	34345	33772		
1968 050J		3292	US	13 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1968 055A	EXPLORER 38	3307	US	4 JUL	224.2	120.8	5855	5842		
1968 055B		3315	US	4 JUL	156.6	120.5	5971	565		
1968 055C		3348	US	4 JUL	224.1	120.8	5862	5826		
1968 055D		4841	US	4 JUL	156.3	120.6	5926	547		
1968 063A		3334	US	6 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1968 066A	EXPLORER 39	3337	US	8 AUG	114.2	80.7	2109	738		
1968 066B	EXPLORER 40	3338	US	8 AUG	118.2	80.6	2526	681		
1968 066C		3341	US	8 AUG	118.2	80.6	2524	683		
1968 066D		3342	US	8 AUG	117.2	80.6	2443	675		
1968 066E		3343	US	8 AUG	117.5	80.5	2489	656		
1968 066F		3390	US	8 AUG	117.4	80.6	2447	688		
1968 066G		3391	US	8 AUG	117.4	80.6	2471	662		
1968 066H		3392	US	8 AUG	117.4	80.7	2444	693		
1968 066J		3393	US	8 AUG	117.2	80.6	2451	664		
1968 069A	ESSA 7	3345	US	16 AUG	114.9	102.0	1475	1433		
1968 069B		3346	US	16 AUG	114.8	101.9	1468	1429		
1968 069C		3416	US	16 AUG	113.7	101.6	1490	1305		
1968 069D		3417	US	16 AUG	116.1	102.0	1562	1459		
1968 069E		3974	US	16 AUG	114.9	102.0	1492	1426		
1968 069F		3975	US	16 AUG	114.9	102.0	1487	1418		
1968 069G		4499	US	16 AUG	115.1	102.0	1495	1439		
1968 070A	COSMOS 236	3347	USSR	27 AUG	96.4	56.0	607	573		
1968 070B		3349	USSR	27 AUG	96.1	56.0	599	552		
1968 081A	OV2-5	3428	US	26 SEP	CURRENT ELEMENTS NOT MAINTAINED					
1968 081B	ERS 28	3429	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	CURRENT ELEMENTS NOT MAINTAINED					
1968 081E		3432	US	26 SEP	CURRENT ELEMENTS NOT MAINTAINED					
1968 09CA	COSMOS 248	3503	USSR	19 OCT	95.5	62.2	463	430		
1968 091A	COSMOS 249	3504	USSR	20 OCT	112.0	62.3	2137	502		
1968 091B	091CK		USSR	20 OCT	SEE NOTE	10*			12*	
1968 092A		3510	US	23 OCT	101.3	98.6	848	799		
1968 092B		3522	US	23 OCT	101.3	98.6	847	798		
1968 095A	COSMOS 250	3526	USSR	30 OCT	90.7	73.9	312	311		
1968 095B		3527	USSR	30 OCT	92.7	73.9	412	405		
1968 097A	COSMOS 252	3530	USSR	1 NOV	112.3	67.3	2134	539		
1968 097B	097DX		USSR	1 NOV	SEE NOTE	11*			11*	
1968 100A	PIONEER 9	3573	US	8 NOV	HELIOCENTRIC ORBIT					
1968 100B	TETR 2	3534	US	8 NOV	94.6	32.8	645	749		
1968 100D		3547	US	8 NOV	91.8	32.8	415	308		
1968 106A	COSMOS 256	3576	USSR	30 NOV	109.3	74.0	1225	1174		
1968 106B		3577	USSR	30 NOV	109.2	74.0	1220	1167		
1968 110A	OAO-A2	3597	US	7 DEC	100.2	34.9	774	763		
1968 110B		3598	US	7 DEC	100.1	34.9	807	717		
1968 112B		3605	US	12 DEC	114.4	80.3	1473	1386		
1968 112C		3617	US	12 DEC	114.0	80.1	1450	1379		
1968 112D		3618	US	12 DEC	114.7	80.5	1513	1379		
1968 112E		3840	US	12 DEC	114.5	80.6	1460	1408		
1968 114A	ESSA 8	3615	US	15 DEC	114.6	101.4	1465	1415		
1968 114B		3616	US	15 DEC	115.1	101.5	1472	1450		
1968 114C		3811	US	15 DEC	112.8	101.8	1468	1252		
1968 114D		3812	US	15 DEC	116.3	101.8	1576	1462		
1968 116A	INTELSAT 3 F-2	3623	ITSO	19 DEC	CURRENT ELEMENTS NOT MAINTAINED					
1968 118B		3627	US	21 DEC	HELIOCENTRIC ORBIT					

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES	
1969 LAUNCHES											
1969 006A	OSO 5	3663	US	22 JAN	95.2	32.9	537	517			
1969 006B		3664	US	22 JAN	94.3	32.9	494	478			
1969 009A	ISIS 1	3669	CANADA	30 JAN	128.2	89.4	3517	578	136.080, 136.410, 136.590, 137.050, 401.750	5+	
1969 009B		3670	US	30 JAN	128.0	88.4	3494	578			
1969 010B		3673	US	5 FEB	114.1	80.3	1436	1397			
1969 010C		3841	US	5 FEB	113.7	80.1	1426	1375			
1969 011A	INTELSAT 3 F-3	3674	ITSO	6 FEB	1436.3	5.2	35814	35768			
1969 011B		5977	US	6 FEB	518.0	26.6	29611	363			
1969 013A		3691	US	9 FEB	1435.9	1.0	35803	35765			
1969 013J		3692	US	9 FEB	CURRENT ELEMENTS NOT MAINTAINED						
1969 014A	MARINER 6	3759	US	25 FEB	HELIOCENTRIC ORBIT						
1969 014B		3760	US	25 FEB	HELIOCENTRIC ORBIT						
1969 016A	ESSA 9	3764	US	26 FEB	115.2	102.1	1508	1425			
1969 016B		3767	US	26 FEB	115.1	102.1	1503	1423			
1969 0183		3770	US	3 MAR	HELIOCENTRIC ORBIT						
1969 018C	LM/ASCENT	3771	US	3 MAR	130.1	29.9	4030	222			
1969 021A	COSMOS 269	3775	USSR	5 MAR	92.8	74.0	415	413			
1969 021B		3776	USSR	5 MAR	92.6	74.1	405	404			
1969 021T		3844	USSR	5 MAR	95.2	74.1	539	519			
1969 024A	COSMOS 272	3818	USSR	17 MAR	109.3	73.9	1210	1180			
1969 024B		3819	USSR	17 MAR	109.1	73.9	1199	1182			
1969 024C		6289	USSR	17 MAR	109.1	73.9	1199	1170			
1969 025C	OV1-19	3825	US	18 MAR	153.1	104.6	5743	470			
1969 025E		3827	US	18 MAR	152.8	104.7	5706	477			
1969 025F		3828	US	18 MAR	93.1	98.8	455	401			
1969 029A	METEOR	3935	USSR	26 MAR	97.6	81.1	672	626			
1969 029B	029AP		USSR	26 MAR	SEE NOTE 12*						12*
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	99.5	1134	1074			
1969 037B	EGRS 13	3891	US	14 APR	107.2	99.5	1132	1072			
1969 037C		3892	US	14 APR	107.4	99.5	1130	1076			
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	OVS-5/ERS-29	3950	US	23 MAY	CURRENT ELEMENTS NOT MAINTAINED						
1969 046B	OVS-6	3951	US	23 MAY	CURRENT ELEMENTS NOT MAINTAINED						
1969 046C	OVS-9	3952	US	23 MAY	3114.9	32.9	113065	15483			
1969 046D		3954	US	23 MAY	6697.4	47.2	116521	105117			
1969 046E		3955	US	23 MAY	6695.1	34.9	111945	110639			
1969 046F		3956	US	23 MAY	CURRENT ELEMENTS NOT MAINTAINED						
1969 051A	OGO 6	3986	US	5 JUN	96.4	81.9	796	381			
1969 051B		3987	US	5 JUN	97.0	81.9	835	398			
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						
1969 052A		4047	US	23 JUL	101.2	98.4	857	783			
1969 052B		4048	US	23 JUL	101.2	98.4	855	784			
1969 064A	INTELSAT 3 F-5	4051	ITSO	26 JUL	131.5	30.3	4110	264			
1969 064C		4053	US	26 JUL	140.9	30.3	4917	266			
1969 068A	DSC 6	4065	US	9 AUG	94.3	32.9	504	462			
1969 069A	ATS 5	4068	US	12 AUG	1436.0	4.5	35786	35782	136.470, 137.350	5+	
1969 069B		4069	US	12 AUG	703.3	17.6	37291	2347			
1969 069C		5991	US	12 AUG	680.0	17.2	37003	1472			
1969 070A	COSMOS 292	4070	USSR	13 AUG	99.8	74.0	751	744			
1969 070B		4071	USSR	13 AUG	99.7	74.0	750	732			
1969 070C		4084	USSR	13 AUG	100.0	74.0	777	743			
1969 082B		4256	US	30 SEP	103.4	70.0	934	907			
1969 082C		4257	US	30 SEP	103.4	70.0	936	908			
1969 082D		4254	US	30 SEP	103.4	70.0	936	908			
1969 082E		4237	US	30 SEP	103.4	70.0	937	907			
1969 082F		4247	US	30 SEP	103.4	70.0	936	908			
1969 082G		4295	US	30 SEP	103.4	70.0	936	907			
1969 082H		4168	US	30 SEP	103.4	70.0	935	908			
1969 082J		4166	US	30 SEP	103.2	70.0	921	900			
1969 082K		4132	US	30 SEP	103.3	70.0	929	903			

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1969 LAUNCHES (CONT.)											
1969 082L	-	082 KL		US	30 SEP	SEE NOTE		14*			14*
1969 084A		METEOR	4119	USSR	6 OCT	97.4	81.2	663	613		
1969 084B			4120	USSR	6 OCT	97.5	81.2	744	542		
1969 091A		COSMOS 304	4138	USSR	21 OCT	99.8	74.0	760	741		
1969 091B			4139	USSR	21 OCT	99.6	74.0	746	737		
1969 097A		GRS-A/AZUR	4221	FRG	8 NOV	120.1	102.6	2993	387		
1969 097B			4222	US	8 NOV	118.8	102.8	2874	384		
1969 097C			4242	FRG	8 NOV	114.2	102.7	2462	381		
1969 097D			4243	FRG	8 NOV	113.8	103.0	2420	379		
1969 097E			4261	FRG	8 NOV	111.7	103.6	2233	384		
1969 097F			4266	FRG	8 NOV	107.2	102.2	1837	365		
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	1178	1143		
1969 103B			4255	USSR	24 NOV	108.3	74.0	1161	1144		
1969 107A		COSMOS 315	4273	USSR	20 DEC	93.5	74.0	455	446		
1969 107B			4274	USSR	20 DEC	93.4	74.0	452	438		
1970 LAUNCHES											
1970 003A		INTFLSAT 3 F-6	4297	ITSO	15 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1970 003B			4298	US	15 JAN	607.7	28.0	34463	312		
1970 008A		ITOS 1	4320	US	23 JAN	115.0	102.0	1481	1436		
1970 008B		OSCAR 5	4321	AUSTRAL	23 JAN	115.0	102.0	1479	1436		
1970 008C			4322	US	23 JAN	115.0	102.0	1481	1436		
1970 009A		SERT 2	4327	US	4 FEB	106.1	99.2	1051	1044		
1970 011A		OHSUMI	4330	JAPAN	11 FEB	138.9	31.1	4675	334		
1970 012A			4331	US	11 FEB	101.2	98.7	870	770		
1970 012B			4332	US	11 FEB	101.2	98.9	871	771		
1970 017A		DIAL-WIKA	4344	FRG	10 MAR	95.2	5.4	767	286		
1970 019A		METEOR	4349	USSR	17 MAR	95.8	81.1	600	519		
1970 019B			4350	USSR	17 MAR	95.9	81.1	672	458		
1970 021A		NATO 1	4353	NATO	20 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1970 021B			4354	US	20 MAR	624.7	25.6	35320	329		
1970 021C			5975	US	20 MAR	635.7	25.7	35909	315		
1970 024A		COSMOS 330	4360	USSR	7 APR	93.8	74.0	471	460		
1970 024B			4361	USSR	7 APR	94.0	74.0	487	459		
1970 025A		NIMBUS 4	4362	US	8 APR	107.1	99.7	1102	1091		
1970 025B		TOPD 1	4363	US	8 APR	106.9	99.7	1090	1087		
1970 025C		- 025NO		US	8 APR	SEE NOTE					
1970 027A			4366	US	8 APR	6704.2	45.1	112757	110039		15*
1970 027B			4368	US	8 APR	6696.6	45.0	112894	109726		
1970 028A		COSMOS 332	4369	USSR	11 APR	99.9	74.0	760	751		
1970 028B			4370	USSR	11 APR	99.8	74.0	764	736		
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			4382	PRC	24 APR	113.7	68.4	2360	436		
1970 034B			4392	PRC	24 APR	112.3	68.4	2230	434		
1970 034C			4400	PRC	24 APR	110.1	68.5	2049	421		
1970 036A		COSMOS 336	4383	USSR	25 APR	115.4	74.0	1488	1464		
1970 036B		COSMOS 337	4384	USSR	25 APR	116.2	74.0	1554	1470		
1970 036C		COSMOS 338	4385	USSR	25 APR	115.8	74.0	1519	1469		
1970 036D		COSMOS 339	4386	USSR	25 APR	115.0	74.0	1471	1447		
1970 036E		COSMOS 340	4387	USSR	25 APR	114.6	74.0	1472	1409		
1970 036F		COSMOS 341	4398	USSR	25 APR	113.9	74.0	1471	1344		
1970 036G		COSMOS 342	4389	USSR	25 APR	113.5	74.0	1470	1312		
1970 036H		COSMOS 343	4390	USSR	25 APR	114.2	74.0	1471	1376		
1970 036J			4391	USSR	25 APR	116.6	74.0	1590	1469		
1970 037A		METEOR	4393	USSR	28 APR	97.9	81.2	700	621		
1970 037B			4394	USSR	28 APR	98.1	81.2	775	567		
1970 037C			5055	USSR	28 APR	96.5	81.2	617	570		
1970 046A			4418	US	18 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1970 046B			4511	US	19 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1970 047A		METEOR	4419	USSR	23 JUN	102.0	81.2	829	827		
1970 047B			4420	USSR	23 JUN	102.2	81.2	923	810		

INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT		CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1970 LAUNCHES (CONT.)												
1970 055A	INTELSAT 3 F-8	4478	ITSC	23 JUL			CURRENT	ELEMENTS	NOT MAINTAINED			
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			94.9	74.0	522	509		
1970 064B		4498	USSR	20 AUG			93.8	74.0	477	451		
1970 067A	NNSS O-19	4507	US	27 AUG			106.9	90.1	1221	953		
1970 067B		4515	US	27 AUG			106.9	90.1	1220	954		
1970 067C		5036	US	27 AUG			104.3	90.0	993	942		
1970 067D		5447	US	27 AUG			109.6	90.1	1464	956		
1970 067E		6372	US	27 AUG			105.9	90.0	1113	969		
1970 069A		4510	US	1 SEP			CURRENT	ELEMENTS	NOT MAINTAINED			
1970 070A		4512	US	3 SEP			101.1	98.8	870	762		
1970 070B		4513	US	3 SEP			101.1	98.9	871	761		
1970 079A	COSMOS 367	4564	USSR	30 OCT			104.5	65.2	1014	930		
1970 083A	COSMOS 371	4578	USSR	12 OCT			99.8	73.0	754	749		
1970 083B		4579	USSR	12 OCT			99.7	74.0	759	736		
1970 085A	METEOR	4583	USSR	15 OCT			97.2	81.2	640	620		
1970 085B		4584	USSR	15 OCT			97.4	81.2	724	548		
1970 085C		6330	USSR	15 OCT			97.3	81.2	721	546		
1970 085A	COSMOS 372	4588	USSR	16 OCT			100.7	74.0	805	783		
1970 085B		4589	USSR	16 OCT			100.6	74.0	806	771		
1970 085C		4590	USSR	16 OCT			100.6	74.0	790	781		
1970 085D		5358	USSR	16 OCT			100.9	74.0	810	800		
1970 087A	COSMOS 373	4590	USSR	20 OCT			93.7	62.8	487	430		
1970 089A	COSMOS 374	4594	USSR	23 OCT			111.6	62.9	2006	598		
1970 089B	- 089 CU		USSR	23 OCT			SEE NOTE	16*				
1970 091A	COSMOS 375	4598	USSR	30 OCT			111.7	62.8	2060	557		
1970 091B	- 091 AQ		USSR	30 OCT			SEE NOTE	17*				
1970 093A		4630	US	6 NOV			CURRENT	ELEMENTS	NOT MAINTAINED			
1970 093B		4632	US	6 NOV			CURRENT	ELEMENTS	NOT MAINTAINED			
1970 099A	COSMOS 379	4760	USSR	24 NOV			182.1	51.6	8351	184		
1970 102A	COSMOS 381	4783	USSR	2 DEC			104.8	74.0	1013	966		
1970 102B		4784	USSR	2 DEC			104.7	74.0	1007	963		
1970 102C		4840	USSR	2 DEC			104.4	74.0	993	946		
1970 102D		5225	USSR	2 DEC			104.6	74.0	992	962		
1970 102E		8764	USSR	2 DEC			104.5	74.0	994	958		
1970 102F		9794	USSR	2 DEC			104.7	74.0	1009	959		
1970 103A	COSMOS 382	4786	USSR	2 DEC			171.0	55.8	5186	2468		
1970 103B		4789	USSR	2 DEC			158.8	51.5	5083	1538		
1970 103C		4790	USSR	2 DEC			159.1	51.6	5085	1612		
1970 103D		5316	USSR	2 DEC			163.2	55.8	4134	2896		
1970 105A	NOAA 1	4793	US	11 DEC			114.8	102.0	1476	1425		
1970 105B		4794	US	11 DEC			114.3	102.0	1477	1423		
1970 105C		8828	US	11 DEC			116.5	101.7	1550	1506		
1970 107A	EXPLORER 42	4797	US	12 DEC			94.3	3.0	495	470		
1970 107B		4798	US	12 DEC			CURRENT	ELEMENTS	NOT MAINTAINED			
1970 108A	COSMOS 385	4799	USSR	12 DEC			104.7	74.0	984	979		
1970 108B		4800	USSR	12 DEC			104.6	74.0	984	969		
1970 109A	PEOPLE	4801	FRANCE	12 DEC			96.5	15.0	685	493		
1970 109B		4802	FRANCE	12 DEC			98.5	14.9	747	631		
1970 109C		4803	FRANCE	12 DEC			96.5	14.9	685	493		
1970 109D		4839	FRANCE	12 DEC			95.6	14.9	622	470		
1970 109E		5264	FRANCE	12 DEC			95.7	15.0	623	473		
1970 111A	COSMOS 387	4806	USSR	16 DEC			94.5	73.9	500	493		
1970 111B		4807	USSR	16 DEC			94.4	74.0	501	492		
1970 113A	COSMOS 389	4813	USSR	18 DEC			97.9	81.1	682	639		
1970 113B		4814	USSR	18 DEC			97.9	81.1	724	598		
1971 LAUNCHES												
1971 000A		4924	US	UNKN			274.2	18.0	14881	328		18*
1971 000B		4925	US	UNKN			273.7	10.7	14883	290		18*
1971 000C		4926	US	UNKN			305.8	19.8	17050	269		18*
1971 000E		5310	US	UNKN			1435.7	4.8	35795	35763		18*
1971 003A	METEOR	4849	USSR	20 JAN			97.4	81.2	640	625		
1971 003B		4950	USSR	20 JAN			97.5	81.2	728	561		

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INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT							TRANSMITTING FREQ. (MHZ)	NOTES
NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.			
1971 LAUNCHES (CONT.)										
1971 006A	INTELSAT 4 F-2	4881	ITSC	26 JAN	1436.1	0.6	35794	35779		
1971 006R		4882	US	26 JAN	654.3	27.4	36595	594		
1971 009A	NATO 2	4902	NATO	3 FEB	CURRENT ELEMENTS		NOT MAINTAINED			
1971 009B		4903	US	3 FEB	CURRENT ELEMENTS		NOT MAINTAINED			
1971 009D		5986	US	3 FEB	576.0	26.1	31891	1217		
1971 010A	COSMOS 354	4922	USSR	9 FEB	96.4	65.8	615	564		
1971 010B		4923	USSR	9 FEB	96.1	65.8	609	545		
1971 010C		4927	USSR	9 FEB	96.1	65.8	596	530		
1971 011A	TANSEI	4952	JAPAN	16 FEB	106.0	29.6	1103	983		
1971 011B		5126	JAPAN	16 FEB	104.7	29.6	992	973		
1971 011C		5419	JAPAN	16 FEB	100.0	30.4	995	522		
1971 012A		4953	US	17 FEB	100.8	98.4	830	767		
1971 012B		4954	US	17 FEB	100.8	98.4	831	771		
1971 012C		4957	US	17 FEB	100.8	98.5	819	755		
1971 012D		4958	US	17 FEB	100.5	98.5	818	752		
1971 012E		4963	US	17 FEB	100.6	98.5	818	752		
1971 013A	COSMOS 355	4956	USSR	17 FEB	94.7	74.0	517	496		
1971 013B		4956	USSR	17 FEB	94.7	74.0	520	492		
1971 015A	COSMOS 397	4964	USSR	25 FEB	113.4	65.7	2199	575		
1971 015B	015CM		USSR	25 FEB	SEE NOTE	19*				
1971 016A	COSMOS 398	4965	USSR	26 FEB	192.4	51.5	9121	208		
1971 018A		5007	PRC	3 MAR	98.0	69.8	1076	253		
1971 019C		5045	US	13 MAR	CURRENT ELEMENTS		NOT MAINTAINED			
1971 020A	COSMOS 400	5050	USSR	18 MAR	104.9	65.8	999	988		
1971 020B		5051	USSR	18 MAR	104.8	65.8	1023	949		
1971 020C		5052	USSR	18 MAR	104.9	65.8	1001	988		
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	113.6	88.1	1427	1350	136.030, 176.410, 136.590, 177.950, 401.750 S*	
1971 024B		5106	US	1 APR	113.5	88.1	1424	1357		
1971 024C		5360	US	1 APR	113.6	88.2	1426	1361		
1971 025A	COSMOS 402	5105	USSR	1 APR	104.9	64.9	1029	953		
1971 028A	COSMOS 405	5117	USSR	7 APR	98.2	81.2	678	670		
1971 028B		5118	USSR	7 APR	98.2	81.2	745	612		
1971 028D		5724	USSR	7 APR	98.1	81.2	677	670		
1971 030A	TOURNESOL	5128	FRANCE	15 APR	95.3	46.3	624	443		
1971 030B		5135	FRANCE	15 APR	94.8	46.3	596	428		
1971 031A	METEOR	5142	USSR	17 APR	96.9	81.2	628	600		
1971 031B		5143	USSR	17 APR	97.1	81.2	701	549		
1971 035A	COSMOS 407	5174	USSR	23 APR	100.9	74.0	818	789		
1971 035B		5175	USSR	23 APR	100.8	74.0	822	774		
1971 035C		5300	USSR	23 APR	101.2	74.0	833	805		
1971 035D		5301	USSR	23 APR	101.3	74.0	840	805		
1971 035E		5778	USSR	23 APR	101.2	74.0	831	806		
1971 035F		5858	USSR	23 APR	101.1	74.0	825	805		
1971 035G		9569	USSR	23 APR	101.1	74.0	831	795		
1971 038A	COSMOS 409	5180	USSR	28 APR	109.3	74.0	1213	1178		
1971 038B		5181	USSR	28 APR	109.0	74.0	1228	1144		
1971 039A		5204	US	5 MAY	CURRENT ELEMENTS		NOT MAINTAINED			
1971 039B		5205	US	5 MAY	CURRENT ELEMENTS		NOT MAINTAINED			
1971 041A	COSMOS 411	5210	USSR	7 MAY	113.8	74.0	1492	1317		
1971 041B	COSMOS 412	5211	USSR	7 MAY	116.1	74.0	1537	1481		
1971 041C	COSMOS 413	5212	USSR	7 MAY	115.7	74.0	1509	1475		
1971 041D	COSMOS 414	5213	USSR	7 MAY	115.1	74.0	1495	1428		
1971 041E	COSMOS 415	5214	USSR	7 MAY	115.4	74.0	1503	1451		
1971 041F	COSMOS 416	5215	USSR	7 MAY	114.4	74.0	1497	1372		
1971 041G	COSMOS 417	5216	USSR	7 MAY	114.1	74.0	1494	1344		
1971 041H	COSMOS 418	5217	USSR	7 MAY	114.8	74.0	1494	1400		
1971 041J		5218	USSR	7 MAY	116.8	74.0	1594	1489		
1971 045A	MARS 2	5234	USSR	19 MAY	APOCENTRIC ORBIT					
1971 046A	COSMOS 422	5238	USSR	22 MAY	105.0	74.0	1009	987		
1971 046B		5239	USSR	22 MAY	104.9	74.0	1001	985		
1971 049A	MARS 3	5252	USSR	28 MAY	AREOCENTRIC ORBIT					
1971 050A	COSMOS 425	5253	USSR	29 MAY	94.5	74.0	508	484		

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APDGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1971 LAUNCHES (CONT.)										
1971 050H		5254	USSR	29 MAY	94.4	74.0	514	468		
1971 051A	MARINER 9	5261	US	30 MAY	AREOCENTRIC ORBIT					
1971 051B		5267	US	30 MAY	HELIOCENTRIC ORBIT					
1971 052A	COSMCS 426	5281	USSR	4 JUN	108.3	74.0	1922	394		
1971 052B		5282	USSR	4 JUN	108.3	74.0	1917	384		
1971 054A		5285	US	8 JUN	95.5	90.2	561	535		
1971 058A	EXPLORER 44	5317	US	8 JUL	94.4	51.0	566	416		
1971 059A	METEOR	5327	USSR	16 JUL	97.1	81.1	637	608		
1971 059B		5328	USSR	16 JUL	97.3	81.2	712	555		
1971 060A		5329	US	16 JUL	92.8	74.9	416	410		
1971 063D	APOLLO 15 SUBSATELLITE QVI-21	5377	US	26 JUL	SFLYOCENTRIC ORBIT					
1971 067B		5397	US	7 AUG	101.9	87.6	917	787		
1971 067E		5398	US	7 AUG	101.9	87.6	914	788		
1971 067G		5401	US	7 AUG	100.2	87.6	827	715		
1971 067H		5406	US	7 AUG	100.7	87.6	855	740		
1971 067J		5405	US	7 AUG	101.6	87.6	905	769		
1971 067K		5395	US	7 AUG	101.9	87.6	914	789		
1971 067L		5399	US	7 AUG	101.7	87.6	907	780		
1971 067M		5400	US	7 AUG	101.7	87.6	904	779		
1971 067N		5384	US	7 AUG	101.8	87.6	914	780		
1971 067P		5410	US	7 AUG	101.4	87.6	887	770		
1971 069A	COSMOS 434	5407	USSR	12 AUG	103.8	51.5	6905	173		
1971 071A	EOLF 1	5435	FRANCE	16 AUG	100.6	50.1	902	674		
1971 071B		5438	US	16 AUG	100.6	50.1	901	672		
1971 071C		5440	US	16 AUG	100.1	50.7	885	643		
1971 071D		5426	US	16 AUG	101.0	49.5	920	696		
1971 073B		5449	USSR	2 SEP	SELENOCENTRIC ORBIT					
1971 074A	COSMOS 436	5461	USSR	7 SEP	94.4	74.0	504	485		
1971 074B		5462	USSR	7 SEP	94.3	74.0	501	474		
1971 075A	COSMOS 437	5466	USSR	10 SEP	94.6	74.0	517	493		
1971 075B		5467	USSR	10 SEP	94.6	74.0	537	465		
1971 080A	SHINSEI	5485	JAPAN	28 SEP	113.0	32.0	1865	868		
1971 080B		5498	JAPAN	28 SEP	111.8	32.0	1755	866		
1971 082A	LUNA 19	5488	USSR	28 SEP	SFLYOCENTRIC ORBIT					
1971 082C		5490	USSR	28 SEP	SELENOCENTRIC ORBIT					
1971 083B	TETR 4	5492	US	29 SEP	92.3	33.0	423	348		
1971 086A	COSMOS 444	5547	USSR	13 OCT	114.1	74.0	1510	1323		
1971 086B	COSMOS 445	5548	USSR	13 OCT	114.4	74.0	1513	1352		
1971 086C	COSMCS 446	5549	USSR	13 OCT	114.8	74.0	1513	1382		
1971 086D	COSMOS 447	5550	USSR	13 OCT	115.1	74.0	1516	1412		
1971 086E	COSMOS 448	5551	USSR	13 OCT	115.5	74.0	1519	1441		
1971 086F	COSMCS 449	5552	USSR	13 OCT	116.2	74.0	1543	1484		
1971 086G	COSMOS 450	5553	USSR	13 OCT	116.9	74.0	1531	1463		
1971 086H	COSMOS 451	5554	USSR	13 OCT	116.6	74.0	1575	1490		
1971 086J		5555	USSR	13 OCT	117.4	74.0	1625	1504		
1971 087A		5557	US	14 OCT	101.5	99.1	877	793		
1971 087B		5556	US	14 OCT	101.6	99.0	887	793		
1971 089A		5560	US	17 OCT	100.5	92.7	800	770		
1971 091D		5576	US	21 OCT	105.2	103.4	1391	627		
1971 093A	PROSPERO	5580	UK	28 OCT	106.3	82.0	1572	544		
1971 093B		5581	UK	28 OCT	106.4	82.0	1582	544		
1971 093C		5582	UK	28 OCT	104.0	82.1	1372	532		
1971 095A		5587	US	3 NOV	1436.0	41.4	35801	35769		
1971 095B		5588	US	3 NOV	1441.8	2.3	35813	35886		
1971 095C		5589	US	3 NOV	CURRENT ELEMENTS NOT MAINTAINED					
1971 096A	EXPLORER 45	5598	US	15 NOV	384.5	3.5	22067	210		
1971 096B		5573	US	15 NOV	334.1	3.5	18915	227		
1971 099A	COSMCS 457	5614	USSR	20 NOV	109.4	74.0	1220	1185		
1971 099B		5615	USSR	20 NOV	109.3	74.0	1213	1179		
1971 103A	COSMOS 460	5628	USSR	30 NOV	94.6	73.0	506	496		
1971 103B		5629	USSR	30 NOV	94.6	74.0	516	486		
1971 105A	COSMOS 461	5643	USSR	2 DEC	93.3	69.2	447	436		
1971 105B		5644	USSR	2 DEC	93.4	60.2	456	435		
1971 109A	ARIFL 4	5675	UK	11 DEC	93.7	82.9	493	428		
1971 109B		5676	US	11 DEC	93.2	82.9	460	411		

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INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT							TRANSMITTING PRFO. (MHZ)		NOTES
NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.				
1971 LAUNCHES (CONT.)											
1971 110A		5679	US	14 DEC	104.9	69.9	996	985			
1971 110B		5679	US	14 DEC	104.1	69.9	964	945			
1971 110C		5680	US	14 DEC	104.0	69.9	996	985			
1971 110D		5681	US	14 DEC	104.0	69.9	996	985			
1971 110E		5682	US	14 DEC	104.9	69.9	996	984			
1971 111A	COSMOS 465	5683	USSR	15 DEC	104.8	74.0	1010	970			
1971 111B		5685	USSR	15 DEC	104.7	74.0	1002	966			
1971 114A	COSMOS 468	5705	USSR	17 DEC	100.7	74.0	808	784			
1971 114B		5707	USSR	17 DEC	100.7	74.0	813	773			
1971 114C		8756	USSR	17 DEC	101.1	74.0	822	809			
1971 114D		8757	USSR	17 DEC	101.0	74.0	815	806			
1971 114E		5704	USSR	17 DEC	101.1	74.0	818	805			
1971 116A	INTELSAT 4 F-3	5709	ITSO	20 DEC	1436.1	0.3	35793	35781			
1971 117A	COSMOS 469	5721	USSR	25 DEC	104.7	64.4	1020	933			
1971 119A	OPEOL 1	5729	USSR	27 DEC	114.0	73.9	2430	398			
1971 119B		5730	USSR	27 DEC	113.8	73.9	2410	400			
1971 119C		5962	USSR	27 DEC	92.6	73.9	416	391			
1971 120A	METEOR	5731	USSR	29 DEC	102.6	81.2	927	844			
1971 120B		5732	USSR	29 DEC	102.2	81.2	872	858			
1971 120C		8826	USSR	29 DEC	102.5	81.2	901	860			
1971 120D		8827	USSR	29 DEC	102.3	81.2	874	865			
1971 120E		9800	USSR	29 DEC	102.6	81.2	895	874			
1972 LAUNCHES											
1972 002D		5772	US	20 JAN	93.8	96.5	485	438			
1972 003A	INTELSAT 4 F-4	5775	ITSO	23 JAN	1436.1	0.4	35794	35780			
1972 003B		5816	US	23 JAN	654.4	28.2	36557	625			
1972 005B		5815	US	31 JAN	94.0	99.7	651	294			
1972 005C		5817	US	31 JAN	CURRENT ELEMENTS NOT MAINTAINED						
1972 007B		5836	USSR	14 FEB	CURRENT ELEMENTS NOT MAINTAINED						
1972 009A	COSMOS 475	5846	USSR	25 FEB	104.7	74.0	1001	967			
1972 009B		5847	USSR	25 FEB	104.5	74.0	999	951			
1972 010A		5851	US	1 MAR	CURRENT ELEMENTS NOT MAINTAINED						
1972 011A	COSMOS 476	5854	US	1 MAR	CURRENT ELEMENTS NOT MAINTAINED						
1972 011B		5852	USSR	1 MAR	97.0	81.2	627	613			
1972 012A	PIONEER 10	5853	USSR	1 MAR	97.1	81.2	685	565			
1972 012B		5860	US	3 MAR	SOLAR SYSTEM ESCAPE TRAJECTORY						
1972 014A	TD-1A	5861	US	3 MAR	HELIOCENTRIC ORBIT						
1972 014B		5879	FRSO	12 MAR	94.8	97.5	521	507			
1972 014C		5880	US	12 MAR	94.8	97.5	519	506			
1972 017A	COSMOS 479	5894	USSR	22 MAR	94.6	74.0	513	494			
1972 017B		5895	USSR	22 MAR	94.6	74.0	520	481			
1972 018A		5903	US	24 MAR	101.7	98.6	884	800			
1972 018B		5904	US	24 MAR	101.6	98.0	874	800			
1972 019A	COSMOS 480	5905	USSR	25 MAR	109.1	82.9	1202	1174			
1972 019B		5907	USSR	25 MAR	109.0	82.9	1197	1166			
1972 022A	METEOR	5917	USSR	30 MAR	102.5	81.2	892	865			
1972 022B		5918	USSR	30 MAR	102.6	81.2	931	840			
1972 023A	COSMOS 482	5919	USSR	31 MAR	155.7	52.1	6210	210			
1972 023D		5923	USSR	31 MAR	165.6	52.1	7008	217			
1972 023E		6073	USSR	31 MAR	191.8	52.1	9074	209			
1972 025B	SRET 1	5928	FRANCE	4 APR	CURRENT ELEMENTS NOT MAINTAINED						
1972 029A	PROGNOZ	5941	USSR	14 APR	CURRENT ELEMENTS NOT MAINTAINED						
1972 031C	LUNAR MODULE	6005	US	16 APR	SELENOCENTRIC ORBIT						
1972 035A	COSMOS 489	6019	USSR	6 MAY	104.7	74.0	1003	967			
1972 035B		6020	USSR	6 MAY	104.6	74.0	989	966			
1972 041A	INTELSAT 4 F-5	6052	ITSO	13 JUN	1436.1	0.0	35792	35781			
1972 041B		6058	US	13 JUN	653.6	26.7	36573	566			
1972 043A	COSMOS 494	6059	USSR	23 JUN	100.7	74.0	804	787			
1972 043B		6061	USSR	23 JUN	100.6	74.0	806	774			
1972 043C		6063	USSR	23 JUN	101.0	74.0	821	801			
1972 043D		6065	USSR	23 JUN	101.2	74.0	836	801			
1972 043E		6162	USSR	23 JUN	100.5	74.0	811	764			
1972 046A	PROGNOZ 2	6068	USSR	29 JUN	CURRENT ELEMENTS NOT MAINTAINED						
1972 049A	METEOR	6079	USSR	30 JUN	102.8	81.2	903	889			

INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT		PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
NAME	CATALOG NUMBER	SOURCE	LAUNCH						
1972 LAUNCHES (CONT.)									
1972 049B		6090	USSR	30 JUN	102.9	81.2	930	863	
1972 052C		6096	US	7 JUL	92.5	96.1	400	397	
1972 053A	COSMOS 500	6097	LSSR	10 JUL	94.6	74.0	520	489	
1972 053B		6098	USSR	10 JUL	94.6	74.0	523	480	
1972 057A	COSMOS 504	6117	LSSR	20 JUL	113.9	74.0	1498	1322	
1972 057B	COSMOS 505	6118	LSSR	20 JUL	114.3	74.0	1498	1353	
1972 057C	COSMOS 506	6119	USSR	20 JUL	114.6	74.0	1498	1383	
1972 057D	COSMOS 507	6120	LSSR	20 JUL	114.9	74.0	1498	1413	
1972 057E	COSMOS 508	6121	LSSR	20 JUL	115.3	74.0	1498	1444	
1972 057F	COSMOS 509	6122	USSR	20 JUL	115.6	74.0	1500	1475	
1972 057G	COSMOS 510	6123	LSSR	20 JUL	116.0	74.0	1511	1497	
1972 057H	COSMOS 511	6124	USSR	20 JUL	116.4	74.0	1547	1496	
1972 057J		6125	LSSR	20 JUL	117.0	74.0	1603	1494	
1972 058A	LANDSAT 1	6126	US	23 JUL	103.2	98.8	916	906	137.860, 2220.500, 2265.500, 2287.500
1972 058B	058HZ		US	23 JUL	SEE NOTE		20*		20*
1972 061A	EXPLORER 46	6142	US	13 AUG	96.8	37.6	737	478	
1972 061B		6145	US	13 AUG	96.4	37.6	709	468	
1972 061C		6146	US	13 AUG	94.3	37.6	562	411	
1972 062A	COSMOS 514	6148	USSR	16 AUG	104.3	82.9	974	957	
1972 062B		6149	USSR	16 AUG	104.3	82.9	970	955	
1972 062C		6277	LSSR	16 AUG	104.1	82.8	963	952	
1972 062D		7560	USSR	16 AUG	103.2	82.9	969	959	
1972 064A	DENPA	6152	JAPAN	19 AUG	129.6	30.9	3982	229	
1972 064B		6332	JAPAN	19 AUG	136.8	31.0	4605	232	
1972 065A	COPERNICUS	6153	US	21 AUG	99.6	35.0	744	734	136.260, 136.440, 400.550
1972 065B		6155	US	21 AUG	99.5	35.0	777	695	
1972 065C		6156	US	21 AUG	99.4	35.0	735	726	
1972 066A	COSMOS 516	6154	USSR	21 AUG	104.6	64.8	1027	922	
1972 069A	TRIAD OI-1X	6173	US	2 SEP	100.6	90.0	840	737	
1972 069B		6180	US	2 SEP	100.6	90.0	839	737	
1972 069C		6250	US	2 SEP	100.1	89.7	831	705	
1972 072A	COSMOS 520	6192	USSR	19 SEP	715.1	66.0	36964	7261	
1972 072E		6302	USSR	19 SEP	706.7	66.9	36571	3236	
1972 073A	EXPLORER 47	6197	US	23 SEP	17786.5	40.8	235893	202774	136.890, 137.920
1972 074A	COSMOS 521	6206	USSR	29 SEP	104.9	65.8	995	991	
1972 074B		6207	LSSR	29 SEP	104.8	65.8	998	976	
1972 074C		6210	USSR	29 SEP	104.0	65.8	998	991	
1972 075A	MOLNIYA 2	6208	LSSR	30 SEP	695.1	64.8	39130	100	
1972 075D		6303	LSSR	30 SEP	578.4	64.8	33673	435	
1972 076A		6212	US	2 OCT	99.5	98.4	745	728	
1972 076B		6217	US	2 OCT	99.5	98.5	748	730	
1972 076C		6218	US	2 OCT	99.5	98.4	749	731	
1972 076D		6221	US	2 OCT	99.5	98.4	748	729	
1972 076E		6224	US	2 OCT	99.2	98.5	737	714	
1972 079C		6222	US	10 OCT	114.7	95.6	1468	1422	
1972 079D		6223	US	10 OCT	114.8	95.7	1480	1409	
1972 079E		6224	US	10 OCT	114.6	95.4	1448	1437	
1972 082A	NOAA 2	6235	US	15 OCT	114.9	101.4	1457	1451	
1972 082B	AMSAT-OSCAR 6	6236	US	15 OCT	114.9	101.4	1457	1450	
1972 082C		6237	US	15 OCT	109.3	102.7	1472	918	
1972 085A	METEOR	6256	USSR	26 OCT	102.5	81.2	893	863	
1972 085B		6257	USSR	26 OCT	102.6	81.2	926	840	
1972 087A	COSMOS 528	6262	LSSR	1 NOV	114.1	74.0	1460	1368	
1972 087B	COSMOS 529	6264	LSSR	1 NOV	114.5	74.0	1469	1404	
1972 087C	COSMOS 530	6265	LSSR	1 NOV	113.8	74.0	1466	1334	
1972 087D	COSMOS 531	6266	USSR	1 NOV	114.7	74.0	1471	1422	
1972 087E	COSMOS 532	6267	LSSR	1 NOV	113.4	74.0	1460	1301	
1972 087F	COSMOS 533	6268	USSR	1 NOV	113.6	74.0	1470	1318	
1972 087G	COSMOS 534	6269	USSR	1 NOV	113.9	74.0	1469	1351	
1972 087H	COSMOS 535	6270	LSSR	1 NOV	114.3	74.0	1470	1385	
1972 087J		6271	LSSR	1 NOV	116.6	74.0	1595	1468	
1972 088A	COSMOS 536	6272	USSR	3 NOV	94.8	74.0	534	+93	
1972 088B		6273	LSSR	3 NOV	94.7	74.0	533	483	

INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT									
DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES	
1972 LAUNCHES (CCNT.)											
1972 088D		6700	USSR	3 NOV	95.2	74.0	546	513			
1972 089A		6275	US	9 NOV	101.7	98.6	870	811			
1972 089B		6276	US	9 NOV	101.7	98.6	870	815			
1972 090A	ANIK 1	6278	CANADA	10 NOV	1436.1	0.1	35780	35787			
1972 091A	EXPLORER 48	6282	US	15 NOV	94.6	1.9	574	422			
1972 091B		6300	US	15 NOV	94.3	1.9	552	416			
1972 097A	NIMBUS 5	6305	US	11 DEC	107.2	99.8	1105	1092	136.500, 1702.500, 572208.500	57	
1972 097B		6306	US	11 DEC	111.8	99.8	1520	1102			
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	1351	1343			
1972 102B		6320	USSR	21 DEC	112.8	74.0	1375	1338			
1972 104A	COSMOS 540	6323	USSR	25 DEC	100.7	74.0	808	780			
1972 104B		6324	USSR	25 DEC	100.5	74.0	793	773			
1972 104C		6391	USSR	25 DEC	100.8	74.1	809	787			
1972 104D		6396	USSR	25 DEC	100.8	74.0	813	783			
1972 104E		8829	USSR	25 DEC	101.5	74.0	852	812			
1972 106A	COSMOS 542	6328	USSR	28 DEC	96.1	81.2	633	520			
1972 106B		6329	USSR	28 DEC	96.2	81.2	651	506			
1973 LAUNCHES											
1973 003A	COSMOS 544	6343	USSR	20 JAN	94.8	74.0	524	502			
1973 003B		6344	USSR	20 JAN	94.7	74.0	521	490			
1973 005A	COSMOS 546	6350	USSR	26 JAN	96.5	50.6	611	574			
1973 005B		6351	USSR	26 JAN	96.3	50.6	612	558			
1973 007E		6368	USSR	3 FEB	379.4	64.5	21805	163			
1973 009A	PFOGNOZ 3	6364	USSR	15 FEB	CURRENT ELEMENTS NOT MAINTAINED						
1973 010A	COSMOS 549	6373	USSR	28 FEB	94.8	74.0	521	507			
1973 010B		6374	USSR	28 FEB	94.8	74.0	536	484			
1973 013A		6380	US	6 MAR	CURRENT ELEMENTS NOT MAINTAINED						
1973 015A	METEOR	6392	USSR	20 MAR	102.5	81.2	892	871			
1973 015B		6393	USSR	20 MAR	102.7	81.2	932	843			
1973 018A	MOLNIYA 2	6418	USSR	5 APR	718.0	65.2	39729	638			
1973 018D		6439	USSR	5 APR	699.0	65.3	38810	616			
1973 019A	PIONEER 11	6421	US	6 APR	SOLAR SYSTEM ESCAPE TRAJECTORY						
1973 019B		6425	US	6 APR	HELIOCENTRIC ORBIT						
1973 023A	ANIK 2	6437	CANADA	20 APR	1436.1	0.0	35795	35781			
1973 027A	SKYLAB 1	6633	US	14 MAY	92.6	50.0	412	397			
1973 034A	METEOR	6659	USSR	25 MAY	102.4	81.2	896	852			
1973 034B		6660	USSR	29 MAY	102.6	81.2	919	851			
1973 037A	COSMOS 564	6675	USSR	8 JUN	114.6	74.0	1482	1396			
1973 037B	COSMOS 565	6676	USSR	8 JUN	115.3	74.0	1491	1450			
1973 037C	COSMOS 566	6677	USSR	8 JUN	115.0	74.0	1484	1435			
1973 037D	COSMOS 567	6678	USSR	8 JUN	114.8	74.0	1485	1414			
1973 037E	COSMOS 568	6679	USSR	8 JUN	114.4	74.0	1482	1377			
1973 037F	COSMOS 569	6680	USSR	8 JUN	114.2	74.0	1482	1359			
1973 037G	COSMOS 570	6681	USSR	8 JUN	114.0	74.0	1482	1339			
1973 037H	COSMOS 571	6682	USSR	8 JUN	113.7	74.0	1481	1321			
1973 037J		6683	USSR	8 JUN	116.9	74.0	1603	1481			
1973 039A	EXPLORER 49	6686	US	10 JUN	SELENOCENTRIC ORBIT						
1973 039B		6687	US	10 JUN	CURRENT ELEMENTS NOT MAINTAINED						
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	CURRENT ELEMENTS NOT MAINTAINED						
1973 042A	COSMOS 574	6707	USSR	20 JUN	105.0	82.9	1016	982			
1973 042B		6708	USSR	20 JUN	104.9	82.9	1004	983			
1973 045A	MOLNIYA 2	6722	USSR	11 JUL	717.6	64.9	39974	372			
1973 045D		6741	USSR	11 JUL	702.1	65.1	39187	395			
1973 047A	MARS 4	6742	USSR	21 JUL	HELIOCENTRIC ORBIT						
1973 049A	MARS 5	6754	USSR	25 JUL	ARECCENTRIC ORBIT						
1973 052A	MARS 6	6768	USSR	5 AUG	HELIOCENTRIC ORBIT						
1973 053A	MARS 7	6776	USSR	9 AUG	HELIOCENTRIC ORBIT						
1973 053D	CAPSULE	7224	USSR	9 AUG	HELIOCENTRIC ORBIT						

INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT				PERIOD		INCLINATION	APOGEE	PERIGEE	TRANSMITTING	NOTES
DESIGNATION	NAME	CATALOG NUMBR	SOURCE	LAUNCH	MINUTES			KM.	KM.	FREQ. (MHZ)		
1973 LAUNCHES (CONT.)												
1973 054A		6787	US	17 AUG	101.4		98.6	852	807			
1973 054B		6788	US	17 AUG	101.4		98.5	851	806			
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	USSR	23 AUG	1436.2		0.1	35792	15786			
1973 058B		6797	US	23 AUG	655.0		27.9	36680	532			
1973 060A	COSMOS 582	6802	USSR	28 AUG	94.9		74.0	525	511			
1973 060B		6803	USSR	28 AUG	94.9		74.0	528	506			
1973 060C		6804	USSR	28 AUG	94.9		74.0	536	498			
1973 061A	MOLNIYA 1	6805	USSR	30 AUG	717.7		65.3	39626	726			
1973 061F		6815	USSR	30 AUG	678.1		65.2	37773	608			
1973 064A	COSMOS 585	6825	USSR	8 SEP	113.5		74.0	1406	1376			
1973 064B		6826	USSR	8 SEP	113.4		74.0	1407	1362			
1973 064C		6827	USSR	8 SEP	101.0		74.1	826	795			
1973 065A	COSMOS 586	6828	USSR	14 SEP	104.8		82.9	1006	969			
1973 065B		6829	USSR	14 SEP	104.7		82.9	998	967			
1973 069A	COSMOS 588	6845	USSR	2 OCT	115.3		73.9	1495	1449			
1973 069B	COSMOS 589	6846	USSR	2 OCT	114.9		73.9	1490	1416			
1973 069C	COSMOS 590	6847	USSR	2 OCT	115.1		73.9	1488	1435			
1973 069D	COSMOS 591	6848	USSR	2 OCT	114.1		73.9	1483	1348			
1973 069E	COSMOS 592	6849	USSR	2 OCT	113.9		73.9	1486	1332			
1973 069F	COSMOS 593	6850	USSR	2 OCT	114.3		73.9	1487	1365			
1973 069G	COSMOS 594	6851	USSR	2 OCT	114.5		73.9	1488	1382			
1973 069H	COSMOS 595	6852	USSR	2 OCT	114.7		73.9	1487	1400			
1973 069J		6853	USSR	2 OCT	117.1		74.0	1624	1486			
1973 076A	MOLNIYA 2	6877	USSR	19 OCT	732.6		65.0	39971	1111			
1973 076D		6898	USSR	19 OCT	733.0		65.0	40015	1090			
1973 078A	EXPLORER 50	6893	US	26 OCT	17481.0		34.1	263987	169500	136.800,137.980	5*	
1973 078C		6895	US	26 OCT	111.7		29.8	2252	358			
1973 078D		6896	US	26 OCT		CURRENT ELEMENTS		NOT MAINTAINED				
1973 080A	COSMOS 604	6907	USSR	29 OCT	97.1		81.2	635	610			
1973 080B		6908	USSR	29 OCT	97.1		81.2	674	571			
1973 081A	NNSS D-20	6909	US	30 OCT	105.5		90.1	1146	896			
1973 081B		6910	US	30 OCT	105.5		90.1	1145	895			
1973 084A	COSMOS 606	6916	USSR	2 NOV	718.6		66.1	37779	2620			
1973 084D		6919	USSR	2 NOV	706.5		66.0	37259	2539			
1973 085A	MARINER 10	6919	US	3 NOV		HELIOCENTRIC ORBIT						
1973 086A	NDA 3	6920	US	6 NOV	116.1		101.8	1512	1504			
1973 086B	086GK		US	6 NOV		SEE NOTE		21*			21*	
1973 088B		6931	US	10 NOV	93.6		96.2	461	448			
1973 088D		6938	US	10 NOV	114.6		96.9	1458	1418			
1973 088E		7559	US	10 NOV	114.7		96.7	1481	1407			
1973 089A	MOLNIYA 1	6932	USSR	14 NOV	717.7		65.0	39398	956			
1973 089E		6940	USSR	14 NOV	698.5		65.1	38457	942			
1973 093A	COSMOS 610	6950	USSR	27 NOV	94.9		74.0	532	506			
1973 093B		6951	USSR	27 NOV	94.8		74.0	533	489			
1973 097A	MOLNIYA 1	6958	USSR	30 NOV	717.6		63.9	39848	498			
1973 097D		7178	USSR	30 NOV	734.7		64.0	40660	527			
1973 098A	COSMOS 614	6965	USSR	4 DEC	100.5		74.0	806	770			
1973 098B		6966	USSR	4 DEC	100.5		74.0	804	768			
1973 098C		6967	USSR	4 DEC	100.6		74.0	810	774			
1973 100A		6973	US	13 DEC	1436.0		0.8	35790	35780			
1973 100B		6974	US	13 DEC	1436.3		0.9	35791	35789			
1973 100D		6976	US	13 DEC		CURRENT ELEMENTS		NOT MAINTAINED				
1973 101A	EXPLORER 51	6977	US	16 DEC	92.0		67.9	379	371	137.230,2269.500	5*	
1973 104A	COSMOS 617	6985	USSR	19 DEC	113.9		74.0	1486	1335			
1973 104B	COSMOS 618	6986	USSR	19 DEC	115.2		74.0	1488	1445			
1973 104C	COSMOS 619	6987	USSR	19 DEC	115.0		74.0	1499	1425			
1973 104D	COSMOS 620	6988	USSR	19 DEC	115.4		74.0	1495	1460			
1973 104E	COSMOS 621	6989	USSR	19 DEC	114.8		74.0	1486	1407			
1973 104F	COSMOS 622	6990	USSR	19 DEC	114.3		74.0	1497	1371			
1973 104G	COSMOS 623	6991	USSR	19 DEC	114.5		74.0	1487	1388			
1973 104H	COSMOS 624	6992	USSR	19 DEC	114.2		74.0	1487	1352			
1973 104J		6993	USSR	19 DEC	117.0		74.0	1623	1477			
1973 106A	MOLNIYA 2	7000	USSR	25 DEC	717.6		63.9	39891	454			
1973 106D		7372	USSR	25 DEC	733.5		64.0	40648	483			

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1973 LAUNCHES (CONT.)											
1973	107A	OREOL 2	7003	USSR	26 DEC	108.8	73.9	1947	401		
1973	107B		7004	USSR	26 DEC	108.7	73.9	1940	395		
1973	106A	COSMOS 626	7005	USSR	27 DEC	104.0	65.4	995	903		
1973	109A	COSMOS 627	7008	USSR	29 DEC	105.0	82.9	1019	973		
1973	109B		7009	USSR	29 DEC	104.7	82.9	997	970		
1974 LAUNCHES											
1974	001A	COSMOS 628	7094	USSR	17 JAN	104.8	82.9	1013	960		
1974	001B		7095	USSR	17 JAN	104.6	82.9	1006	951		
1974	005A	COSMOS 631	7109	USSR	6 FEB	95.0	74.0	545	498		
1974	005B		7110	USSR	6 FEB	94.9	74.0	525	509		
1974	005C		7111	USSR	6 FEB	92.9	74.0	455	386		
1974	005E		7257	USSR	6 FEB	91.1	74.0	335	328		
1974	008A	TANSEI 2	7122	JAPAN	16 FEB	117.5	31.2	2862	270		
1974	008B		7123	JAPAN	16 FEB	118.0	31.2	2907	278		
1974	011A	METEGR	7209	USSR	5 MAR	102.1	81.2	890	835		
1974	011B		7210	USSR	5 MAR	102.1	81.2	917	810		
1974	013A	UK-X4	7213	UK	9 MAR	101.1	97.8	924	701		
1974	013B		7228	US	9 MAR	101.1	97.8	916	712		
1974	013C		7215	UK	9 MAR	100.9	97.2	899	711		
1974	013D		7214	UK	9 MAR	101.1	98.4	931	701		
1974	015A		7218	US	16 MAR	101.4	98.9	877	781		
1974	015B		7219	US	16 MAR	101.5	98.9	885	783		
1974	017A	COSMOS 637	7229	USSR	26 MAR	1429.1	2.2	38651	32648		
1974	020B		7244	US	10 APR	101.0	94.5	928	786		
1974	020C		7247	LE	10 APR	94.6	93.9	517	491		
1974	022A	WESTAR 1	7250	US	13 APR	1436.1	0.0	35796	35777		
1974	023A	MOLNIYA 1	7260	USSR	20 APR	717.7	64.8	30256	1099		
1974	023E		7264	USSR	20 APR	734.4	55.0	40096	1076		
1974	024A	COSMOS 641	7265	USSR	23 APR	114.5	74.0	1483	1389		
1974	024B	COSMOS 642	7266	USSR	23 APR	115.7	74.0	1482	1320		
1974	024C	COSMOS 643	7267	USSR	23 APR	114.1	74.0	1483	1354		
1974	024D	COSMOS 644	7268	USSR	23 APR	113.9	74.0	1483	1336		
1974	024E	COSMOS 645	7269	USSR	23 APR	114.3	74.0	1483	1370		
1974	024F	COSMOS 646	7270	USSR	23 APR	114.7	74.0	1486	1405		
1974	024G	COSMOS 647	7271	USSR	23 APR	114.9	74.0	1485	1424		
1974	024H	COSMOS 648	7272	USSR	23 APR	115.1	74.0	1491	1439		
1974	024J		7273	USSR	23 APR	116.9	74.0	1411	1477		
1974	025A	METFOR	7274	USSR	24 APR	102.5	81.2	895	862		
1974	025B		7275	USSR	24 APR	102.6	81.2	926	840		
1974	026A	MOLNIYA 2	7276	USSR	26 APR	717.8	63.7	38579	1780		
1974	026E		7373	USSR	26 APR	732.6	63.8	39243	1839		
1974	028A	COSMOS 650	7281	USSR	29 APR	113.4	74.0	1401	1370		
1974	028B		7284	USSR	29 APR	113.2	74.0	1394	1362		
1974	029A	COSMOS 651	7291	USSR	15 MAY	103.4	64.9	945	900		
1974	032A	COSMOS 654	7297	USSR	17 MAY	104.4	64.9	1021	916		
1974	033A	SMS 1	7298	US	17 MAY	1436.1	2.9	35806	35767	136.380,468.825, 5x 1682.500	
1974	034A	INTERCOSMOS 11	7299	USSR	17 MAY	94.3	50.6	495	479		
1974	034B		7302	USSR	17 MAY	94.1	50.6	497	457		
1974	035A	COSMOS 655	7306	USSR	21 MAY	95.1	73.9	537	512		
1974	035B		7307	USSR	21 MAY	95.0	74.0	528	511		
1974	035C		7515	USSR	21 MAY	95.1	74.0	540	512		
1974	035D		7516	USSR	21 MAY	95.5	73.9	562	531		
1974	035E		7517	USSR	21 MAY	95.5	74.0	584	508		
1974	035F		7518	USSR	21 MAY	94.4	74.0	508	481		
1974	035G		7519	USSR	21 MAY	94.4	74.0	506	475		
1974	035H		8778	USSR	21 MAY	91.9	74.0	376	367		
1974	037A	LUNA 22	7315	USSR	29 MAY	SELENOCENTRIC ORBIT					
1974	039A	ATS 6	7318	US	30 MAY	1436.1	1.1	35792	35780	136.230,137.110	5x
1974	039C		7324	US	30 MAY	CURRENT ELEMENTS NOT MAINTAINED					
1974	040A	EXPLORER 52	7325	US	3 JUN	3077.7	83.6	126032	1394	136.290,400.650	5x
1974	044A	COSMOS 660	7337	USSR	18 JUN	108.8	82.9	1957	796		
1974	044B		7338	USSR	18 JUN	108.6	82.9	1923	403		
1974	045A	COSMOS 661	7339	USSR	21 JUN	94.9	74.0	539	498		

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1974 LAUNCHES (CONT.)											
1974	045B		7340	USSR	21 JUN	94.8	74.0	531	490		
1974	045C		7341	USSR	21 JUN	92.5	73.9	400	396		
1974	048A	COSMOS 663	7349	USSR	27 JUN	104.8	82.9	1005	969		
1974	048B		7350	USSR	27 JUN	104.6	82.9	995	965		
1974	050A	COSMOS 665	7352	USSR	29 JUN	117.2	66.4	38380	1949		
1974	050C		7354	USSR	29 JUN	707.4	66.5	37961	1883		
1974	052A	METEOR	7363	USSR	9 JUL	103.0	81.2	912	892		
1974	052B		7364	USSR	9 JUL	102.6	81.2	916	855		
1974	054A		7365	US	14 JUL	468.7	124.6	13750	13469		
1974	054B		7370	US	14 JUL	222.3	125.3	11343	214		
1974	054C		8599	US	14 JUL	468.6	124.6	14017	13200		
1974	056A	MOLNIYA 2	7376	USSR	23 JUL	717.8	63.4	39068	1287		
1974	056D		7382	USSR	23 JUL	733.9	63.3	39721	1429		
1974	060A	MOLNIYA 1-5	7392	USSR	29 JUL	CURRENT	ELEMENTS	NOT MAINTAINED			
1974	060D		7399	USSR	29 JUL	208.9	46.8	10435	140		
1974	063A		7411	US	9 AUG	101.6	98.7	875	804		
1974	063B		7412	US	9 AUG	101.6	98.7	873	802		
1974	066A	COSMOS 673	7417	USSR	16 AUG	97.0	81.2	634	604		
1974	066B		7418	USSR	16 AUG	97.2	81.2	674	578		
1974	066C		8424	USSR	16 AUG	97.0	81.2	634	606		
1974	069A	COSMOS 675	7424	USSR	29 AUG	113.6	74.0	1425	1365		
1974	069B		7426	USSR	29 AUG	113.5	74.0	1423	1356		
1974	071A	COSMOS 676	7433	USSR	11 SEP	100.9	74.0	916	794		
1974	071B		7434	USSR	11 SEP	100.8	74.0	817	784		
1974	072A	COSMOS 677	7435	USSR	19 SEP	114.4	74.0	1468	1398		
1974	072B	COSMOS 678	7436	USSR	19 SEP	115.9	74.0	1534	1468		
1974	072C	COSMOS 679	7437	USSR	19 SEP	115.7	74.0	1512	1468		
1974	072D	COSMOS 680	7438	USSR	19 SEP	115.5	74.0	1493	1468		
1974	072E	COSMOS 681	7439	USSR	19 SEP	115.3	74.0	1474	1467		
1974	072F	COSMOS 682	7440	USSR	19 SEP	115.1	74.0	1468	1454		
1974	072G	COSMOS 683	7441	USSR	19 SEP	114.9	74.0	1468	1436		
1974	072H	COSMOS 684	7442	USSR	19 SEP	114.7	74.0	1468	1417		
1974	072J		7443	USSR	19 SEP	117.7	74.0	1690	1472		
1974	075A	WESTAR 2	7466	US	10 OCT	1426.1	0.0	35794	35782		
1974	075B		7467	US	10 OCT	107.5	27.2	2004	220		
1974	075C		7468	US	10 OCT	598.7	24.4	34021	284		
1974	076A	COSMOS 687	7469	USSR	11 OCT	90.1	73.9	330	238		
1974	077A	ARIEL 5	7471	UK	15 OCT	95.1	2.9	537	496	137.680	
1974	077B		7472	US	15 OCT	94.6	2.9	525	487		
1974	079A	COSMOS 689	7476	USSR	18 OCT	105.0	82.9	1019	977		
1974	079B		7477	USSR	18 OCT	104.9	82.9	1017	970		
1974	081A	MOLNIYA 1	7480	USSR	24 OCT	717.6	64.4	30582	764		
1974	081D		7485	USSR	24 OCT	732.0	64.4	40283	773		
1974	083A	METEOR	7490	USSR	28 OCT	102.4	81.1	907	841		
1974	083B		7493	USSR	28 OCT	102.5	81.1	913	945		
1974	085B		7498	US	29 OCT	94.9	95.0	523	509		
1974	089A	NOAA 4	7529	US	15 NOV	114.9	101.5	1461	1447	136.770, 137.140, 137.500, 137.620, 1697.500	5*
1974	089B	AMSAT-OSCAR 7	7530	US	15 NOV	114.8	101.5	1462	1441		
1974	089C	INTASAT	7531	SPAIN	15 NOV	114.9	101.5	1461	1444		
1974	089D	089EJ		US	15 NOV	SFE	NOTE	22*			??*
1974	092A	MOLNIYA 3	7540	USSR	21 NOV	717.6	64.4	39612	737		
1974	092E		7546	USSR	21 NOV	733.7	64.4	40408	732		
1974	093A	INTELSAT 4 F-8	7544	ITSD	21 NOV	1430.1	0.2	35794	35779		
1974	093B		7545	US	21 NOV	654.3	25.5	36634	544		
1974	094A	SKYNET 2B	7547	UK	23 NOV	1430.3	0.7	35799	35784		
1974	094D		7550	US	23 NOV	121.5	23.2	3187	300		
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	102.3	81.2	897	841		
1974	099B		7575	USSR	17 DEC	102.3	81.2	920	819		
1974	100A	COSMOS 698	7576	USSR	18 DEC	95.1	74.0	538	515		
1974	100B		7577	USSR	18 DEC	95.0	74.0	541	503		

INTER-NATIONAL DESIGNATION		PROJECTS IN ORBIT									TRANSMITTING FREQ. (MHZ)	NOTES
NAME	CATALOG NUMBFR	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.					
1974 LAUNCHES (CONT.)												
1974 100D	7636	USSR	18 DEC	94.7	74.0	553	458					
1974 100F	7722	USSR	18 DEC	94.5	73.9	530	459					
1974 100G	7723	USSR	18 DEC	95.1	73.9	546	511					
1974 100H	7724	USSR	18 DEC	93.4	73.9	455	434					
1974 101A	7578	FR/FRG	19 DEC	1436.1	0.2	35795	35778					
1974 101B	7579	US	19 DEC	93.2	27.0	600	262					
1974 101G	9330	US	19 DEC	682.4	12.8	38201	396					
1974 102A	7583	USSR	21 DEC	717.6	64.6	39143	1205					
1974 102D	7586	USSR	21 DEC	734.0	64.7	39953	1201					
1974 103B - 103BC		USSR	24 DEC	SEE NOTE		23*					23x	
1974 105A	7593	LSSR	26 DEC	104.7	82.9	1002	964					
1974 105B	7594	USSR	26 DEC	104.6	82.9	991	964					
1975 LAUNCHES												
1975 004A	7615	US	22 JAN	103.2	99.0	910	904			137.860, 2229.500, 5x 2265.500, 2287.500		
1975 004B - 004HF		US	22 JAN	SEE NOTE		24*					24x	
1975 007A	7625	LSSR	30 JAN	718.3	63.1	38545	1837					
1975 007D	7629	USSR	30 JAN	716.3	63.4	38462	1822					
1975 008A	7637	USSR	5 FEB	94.9	74.0	540	494					
1975 008B	7638	LSSR	5 FEB	94.8	74.0	540	484					
1975 009A	7641	LSSR	6 FEB	717.6	64.5	39673	676					
1975 009D	7653	USSR	6 FEB	733.3	64.5	40444	676					
1975 010A	7646	FRANCE	6 FEB	104.1	49.8	1107	805					
1975 010B	7647	FRANCE	6 FEB	104.4	49.8	1137	803					
1975 010C	7654	FRANCE	6 FEB	104.0	49.8	1094	805					
1975 010D	7655	FRANCE	6 FEB	104.1	49.8	1100	804					
1975 010E	7659	FRANCE	6 FEB	104.3	49.8	1110	805					
1975 011A	7648	US	6 FEB	1436.1	0.0	35793	35781			136.380, 468.825, 5x 1682.500		
1975 011B	7650	US	6 FEB	118.4	27.6	2040	275					
1975 012A	7663	USSR	12 FEB	113.5	69.2	1410	1371					
1975 012B	7665	USSR	12 FEB	113.4	69.2	1398	1369					
1975 014A	7671	JAPAN	24 FEB	114.2	31.5	2595	246					
1975 014B	7674	JAPAN	24 FEB	113.9	31.5	2565	245					
1975 016A	7678	LSSR	28 FEB	115.4	74.0	1494	1463					
1975 016B	7679	LSSR	28 FEB	114.9	73.9	1491	1413					
1975 016C	7680	USSR	28 FEB	114.7	74.0	1489	1397					
1975 016D	7681	USSR	28 FEB	115.2	73.9	1492	1446					
1975 016E	7682	USSR	28 FEB	115.7	74.0	1506	1471					
1975 016F	7683	LSSR	28 FEB	115.9	74.0	1515	1481					
1975 016G	7684	USSR	28 FEB	116.1	73.9	1537	1481					
1975 016H	7685	USSR	28 FEB	115.1	73.9	1491	1430					
1975 016J	7686	LSSR	28 FEB	118.0	73.9	1711	1476					
1975 017A	7687	US	10 MAR	CURRENT ELEMENTS NOT MAINTAINED								
1975 017B	7688	US	10 MAR	CURRENT ELEMENTS NOT MAINTAINED								
1975 022A	7710	USSR	27 MAR	102.7	82.9	1500	282					
1975 022B	7713	LSSR	27 MAR	102.2	82.9	1448	280					
1975 023A	7714	USSR	1 APR	102.5	81.2	895	864					
1975 023B	7715	LSSR	1 APR	102.5	81.2	919	844					
1975 024A	7718	USSR	2 APR	102.7	81.2	974	894					
1975 025A	7727	LSSR	7 APR	103.0	65.5	943	863					
1975 027A	7734	US	9 APR	101.7	114.9	846	839			136.320, 2247.000	5x	
1975 027B	7735	US	9 APR	101.7	114.9	845	836					
1975 028A	7736	LSSR	11 APR	104.6	82.9	909	957					
1975 028B	7737	USSR	11 APR	104.5	82.9	980	956					
1975 029A	7738	LSSR	14 APR	717.7	64.5	39145	1206					
1975 029D	7741	USSR	14 APR	733.0	64.5	39920	1184					
1975 033A	7752	INDIA	19 APR	96.4	50.6	609	567					
1975 033B	7753	LSSR	19 APR	96.2	50.6	621	539					
1975 033C	8059	LSSR	19 APR	94.2	50.6	404	468					
1975 034A	7769	USSR	22 APR	104.9	82.9	1013	976					
1975 034B	7769	LSSR	22 APR	104.8	82.9	1006	974					
1975 036A	7780	USSR	29 APR	717.8	63.3	38667	1688					

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1975 LAUNCHES (CONT.)											
1975 036D			7800	LSSR	29 APR	732.8	67.3	30349	1748		
1975 037A	EXPLORER 53		7788	US	7 MAY	94.3	2.9	487	483	136.680	5*
1975 037B			7789	US	7 MAY	94.2	2.9	484	478		
1975 038A	ANIK 3		7790	CANADA	7 MAY	1436.1	0.0	35795	35781		
1975 038D			7794	LS	7 MAY	615.4	24.6	34907	268		
1975 039B	CASTOR		7802	FRANCE	17 MAY	97.0	29.9	965	264		
1975 039G			8035	FRANCE	17 MAY	91.3	29.9	443	233		
1975 042A	INTELSAT 4 F-1		7815	ITSO	22 MAY	1436.1	0.0	35791	35782		
1975 042B			7902	US	22 MAY	655.2	25.2	36653	571		
1975 043A			7816	US	24 MAY	101.9	98.8	896	806		
1975 043B			7817	LS	24 MAY	101.8	98.8	891	806		
1975 045A	COSMCS 732		7820	USSR	28 MAY	114.6	74.0	1472	1405		
1975 045B	COSMOS 733		7822	LSSR	28 MAY	110.2	74.0	1555	1471		
1975 045C	COSMOS 734		7823	USSR	28 MAY	115.0	74.0	1473	1445		
1975 045D	COSMOS 735		7824	USSR	28 MAY	115.2	74.0	1475	1463		
1975 045E	COSMOS 736		7825	LSSR	28 MAY	115.5	74.0	1488	1471		
1975 045F	COSMOS 737		7826	LSSR	28 MAY	115.9	74.0	1530	1471		
1975 045G	COSMOS 738		7827	LSSR	28 MAY	115.7	74.0	1510	1471		
1975 045H	COSMOS 739		7829	USSR	28 MAY	114.8	74.0	1473	1425		
1975 045J			7831	USSR	28 MAY	118.0	73.9	1696	1487		
1975 049A	MOLNIYA 1		7903	USSR	5 JUN	717.7	63.3	39593	757		
1975 049B	SRET 2		7910	FRANCE	5 JUN	736.5	62.7	40461	815		
1975 049F			8549	USSR	5 JUN	730.5	63.2	40175	808		
1975 050A	VENERA 9		7915	LSSR	8 JUN			CIRCUM-VENEREAN ORBIT			
1975 051C	SSU 1		7937	US	8 JUN	113.6	95.0	1398	1388		
1975 051D			7939	US	8 JUN	113.2	94.9	1408	1349		
1975 051E			7939	US	8 JUN	113.9	95.1	1470	1388		
1975 052A	NIMBUS 6		7924	US	12 JUN	107.4	99.9	1117	1105	136.500,401.200, 1702.500, 2257.000	5*
1975 052B			7946	US	12 JUN	107.2	99.9	1105	1096		
1975 054A	VENERA 10		7947	USSR	14 JUN			CIRCUM-VENEREAN ORBIT			
1975 055A			7963	US	18 JUN			CURRENT ELEMENTS NOT MAINTAINED			
1975 055B			7964	US	18 JUN			CURRENT ELEMENTS NOT MAINTAINED			
1975 056A	COSMOS 744		7962	LSSR	20 JUN	97.0	81.2	636	599		
1975 056B			7969	USSR	20 JUN	97.2	81.2	667	585		
1975 057A	OSO 8		7970	US	21 JUN	95.5	32.9	551	537	136.920,2212.500	5*
1975 057B			7971	US	21 JUN	95.5	32.9	548	535		
1975 062A	COSMOS 749		8009	USSR	4 JUL	95.0	74.0	557	487		
1975 062B			8010	LSSR	4 JUL	94.9	74.0	546	492		
1975 062C			8107	LSSR	4 JUL	94.6	74.1	539	464		
1975 063A	MOLNIYA 2		8015	USSR	8 JUL	716.5	63.3	38689	1607		
1975 063D			8019	LSSR	8 JUL	732.9	63.2	39434	1666		
1975 064A	METEOR 2		8025	LSSR	11 JUL	102.4	81.2	890	858		
1975 064B			8027	USSR	11 JUL	102.5	81.2	920	840		
1975 064C			8039	USSR	11 JUL	102.4	81.2	890	856		
1975 064D			8110	LSSR	11 JUL	102.2	81.3	901	835		
1975 069A	COSMOS 752		8043	USSR	24 JUL	94.4	65.8	513	471		
1975 069B			8044	LSSR	24 JUL	94.2	65.8	508	455		
1975 072A	COS-B		8062	ESA	9 AUG	2203.3	95.9	90521	8904		
1975 072B			8063	US	9 AUG	138.7	89.2	4671	333		
1975 074A	COSMOS 755		8072	LSSR	14 AUG	104.9	82.9	1014	971		
1975 074B			8073	USSR	14 AUG	104.8	82.9	1007	965		
1975 075A	VIKING ORBITFP 1		8108	US	20 AUG			AREOCENTRIC ORBIT			
1975 075B			8111	US	20 AUG			HELIOCENTRIC ORBIT			
1975 076A	COSMCS 756		8127	USSR	22 AUG	97.2	81.2	634	618		
1975 076B			8129	LSSR	22 AUG	97.3	81.2	679	586		
1975 077A	SYMPHONIE-B		8132	FR/FRG	27 AUG	1436.1	0.2	35799	35775		
1975 077B			8133	US	27 AUG	109.5	25.3	2002	407		
1975 077C			8174	US	27 AUG	677.7	17.4	38020	342		
1975 079A	MOLNIYA 1		8187	LSSR	2 SEP	717.6	64.4	39754	594		
1975 079E			8274	USSR	2 SEP	736.0	64.4	40561	689		
1975 081A	MOLNIYA 2		8195	LSSR	9 SEP	717.7	63.2	38807	1544		
1975 081D			8418	USSR	9 SEP	733.7	63.2	39553	1586		
1975 082A	KIKU		8197	JAPAN	9 SEP	105.9	46.9	1103	975		
1975 082B			8352	JAPAN	9 SEP	105.9	46.9	1102	975		

INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT											
DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES			
1975 LAUNCHES (CONT.)													
1975 083A	VIKING ORBITER 2	8199	US	9 SEP									
1975 083R		8272	US	9 SEP									
1975 086A	COSMOS 761	8286	USSR	17 SEP									
1975 086B	COSMOS 762	8286	USSR	17 SEP	114.6	74.0	1484	1401					
1975 086C	COSMOS 763	8287	USSR	17 SEP	115.1	74.0	1486	1439					
1975 086D	COSMOS 764	8288	USSR	17 SEP	115.8	74.0	1511	1475					
1975 086E	COSMOS 765	8289	USSR	17 SEP	116.0	74.0	1528	1480					
1975 086F	COSMOS 766	8290	USSR	17 SEP	116.3	74.0	1552	1480					
1975 086G	COSMOS 767	8291	USSR	17 SEP	114.9	74.0	1486	1410					
1975 086H	COSMOS 768	8292	USSR	17 SEP	115.3	74.0	1488	1457					
1975 086J		8292	USSR	17 SEP	115.5	74.0	1493	1473					
1975 087A	METEOR	8295	USSR	17 SEP	117.8	74.0	1685	1482					
1975 087B		8293	USSR	18 SEP	102.3	81.2	921	316					
1975 089A	COSMOS 770	8294	USSR	18 SEP	102.4	81.2	923	327					
1975 089B		8325	USSR	24 SEP	109.1	82.9	1211	1166					
1975 091A	INTELSAT 4A F-1	8326	USSR	24 SEP	109.0	82.9	1201	1164					
1975 091B		8330	ITSC	26 SEP	1436.2	0.1	35793	35785					
1975 092A	D2-B	8331	US	26 SEP	656.6	21.9	36750	545					
1975 092B		8332	FRANCE	27 SEP	96.7	37.1	705	497					
1975 092C		8333	FRANCE	27 SEP	96.8	37.1	712	498					
1975 092D		8336	FRANCE	27 SEP	95.8	37.1	634	484					
1975 092E		8337	FRANCE	27 SEP	95.9	37.0	632	493					
1975 092F		8340	FRANCE	27 SEP	95.8	37.1	634	481					
1975 092G		8341	FRANCE	27 SEP	96.6	37.1	690	498					
1975 094A	COSMOS 773	8342	FRANCE	27 SEP	96.4	37.1	684	490					
1975 094B		8343	USSR	30 SEP	100.8	74.0	808	789					
1975 094C		8344	USSR	30 SEP	100.7	74.0	812	775					
1975 097A	COSMOS 775	8345	USSR	30 SEP	100.6	74.0	806	773					
1975 097D		8357	USSR	8 OCT	1436.6	1.7	35825	35769					
1975 097E		8414	USSR	8 OCT	629.8	46.7	35630	290					
1975 099A	TIP 2	8415	USSR	8 OCT	632.3	46.8	35687	367					
1975 099B		8361	US	12 OCT	98.8	90.3	824	582					
1975 099C		8364	US	12 OCT	92.6	90.7	483	330					
1975 100A	GOES 1	8409	US	12 OCT	95.0	90.8	653	390					
1975 100C		8366	US	16 OCT	1436.9	0.7	35816	35786	176.380, 468.825, 5*				
1975 102AR		8369	US	16 OCT	529.3	23.4	30382	213	1682.500				
1975 102AC		8647	USSR	29 OCT	93.2	65.0	468	395					
1975 103A	COSMOS 778	8648	USSR	29 OCT	93.0	64.9	441	405					
1975 103B		8419	USSR	4 NOV	104.8	82.0	1005	975					
1975 105A	MOLNIYA 3	8421	USSR	4 NOV	104.7	82.9	997	972					
1975 105D		8425	USSR	14 NOV	717.7	63.0	38857	1497					
1975 107A	EXPLORER 55	8462	USSR	14 NOV	733.8	63.0	39601	1540					
1975 109A	COSMOS 781	8440	US	20 NOV	90.0	10.6	275	275					
1975 109B		8444	USSR	21 NOV	95.0	74.0	538	508	137.230, 2289.500 5*				
1975 109C		8445	USSR	21 NOV	94.9	74.0	540	488					
1975 109G		8447	USSR	21 NOV	92.5	73.9	418	386					
1975 109J		8777	USSR	21 NOV	93.1	74.0	438	417					
1975 109K		8994	USSR	21 NOV	92.4	73.9	406	383					
1975 109L		8995	USSR	21 NOV	95.5	73.9	745	349					
1975 112A	COSMOS 783	10433	USSR	21 NOV	94.5	74.0	517	476					
1975 112B		8458	USSR	28 NOV	100.9	74.0	815	794					
1975 112C		8459	USSR	28 NOV	100.8	74.0	812	785					
1975 114B		8572	USSR	28 NOV	100.9	74.0	813	800					
1975 115A	INTERCOSMOS 14	8468	US	4 DEC	95.3	96.2	858	218					
1975 115B		8471	USSR	11 DEC	104.6	73.9	1627	332					
1975 115C		8472	USSR	11 DEC	104.4	73.9	1611	324					
1975 115D		8474	USSR	11 DEC	104.2	73.0	1556	364					
1975 115E		8475	USSR	11 DEC	105.9	73.4	1623	454					
1975 115F		8765	USSR	11 DEC	105.3	72.7	1615	410					
1975 116A	COSMOS 785	8766	USSR	11 DEC	99.4	72.6	1105	357					
1975 117A	RCA-SATCCM-I	8473	USSR	12 DEC	104.2	65.0	1028	891					
1975 117C		8476	US	13 DEC	1436.2	0.0	35794	35783					
1975 118A		8479	US	13 DEC	561.7	27.1	32141	204					
1975 118C		8482	US	14 DEC									
1975 118D		8516	US	14 DEC									
		8517	US	14 DEC									

INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT		CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1975 LAUNCHES (CONT.)												
1975	121A	MOLNIYA 2	8492	USSR	17 DEC	717.6	63.2	39834	514			
1975	121D		8529	USSR	17 DEC	732.3	63.1	40530	539			
1975	122A	PROGN CZ 4	8510	USSR	22 DEC	CURRENT ELEMENTS		NOT MAINTAINED				
1975	123A	RADUGA	8513	USSR	22 DEC	CURRENT ELEMENTS		NOT MAINTAINED				
1975	123D		8546	USSR	22 DEC	474.2	46.6	27286	248			
1975	123E		8547	USSR	22 DEC	563.8	46.9	32113	347			
1975	124A	METEOR	8519	USSR	25 DEC	102.3	81.2	903	839			
1975	124B		8520	USSR	25 DEC	102.4	81.2	912	838			
1975	125A	MOLNIYA 3	8521	USSR	27 DEC	717.6	63.3	39828	521			
1975	125F		8500	USSR	27 DEC	731.1	63.2	40470	542			
1976 LAUNCHES												
1976	001A	COSMOS 787	8530	USSR	6 JAN	95.1	74.0	545	510			
1976	001B		8531	USSR	6 JAN	95.0	74.0	547	500			
1976	001E		9731	USSR	6 JAN	93.2	74.6	712	156			
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	1476.3	0.4	35832	25748	2277.500		8x
1976	004D		8598	US	17 JAN	393.2	25.9	23170	367			
1976	005A	COSMOS 789	8591	USSR	20 JAN	104.9	82.9	1018	972			
1976	005B		8597	USSR	20 JAN	104.8	82.9	1011	969			
1976	006A	MOLNIYA 1	8601	USSR	22 JAN	717.7	63.3	39002	1349			
1976	006D		8701	USSR	22 JAN	695.4	63.3	37939	1305			
1976	007A	COSMOS 790	8604	USSR	22 JAN	95.1	73.9	551	500			
1976	007B		8605	USSR	22 JAN	94.9	74.0	534	493			
1976	008A	COSMOS 791	8607	USSR	28 JAN	114.7	74.0	1488	1403			
1976	008B	COSMOS 792	8608	USSR	28 JAN	115.1	74.0	1493	1437			
1976	008C	COSMOS 793	8609	USSR	28 JAN	114.9	74.0	1492	1418			
1976	008D	COSMOS 794	8610	USSR	28 JAN	115.3	74.0	1495	1453			
1976	008E	COSMOS 795	8611	USSR	28 JAN	115.6	74.0	1500	1468			
1976	008F	COSMOS 796	8612	USSR	28 JAN	115.8	74.0	1517	1473			
1976	008G	COSMOS 797	8613	USSR	28 JAN	116.0	74.0	1531	1480			
1976	008H	COSMOS 798	8614	USSR	28 JAN	116.3	74.0	1555	1480			
1976	008J		8615	USSR	28 JAN	117.9	74.0	1697	1465			
1976	010A	INTELSAT 4A F-2	8620	INTSO	29 JAN	1436.2	0.0	35791	35784			
1976	010B		8621	US	29 JAN	656.2	21.7	36609	613			
1976	011A	COSMOS 800	8643	USSR	3 FEB	105.0	82.9	1016	982			
1976	011B		8546	USSR	3 FEB	104.9	82.9	1006	980			
1976	012A	COSMOS 801	8558	USSR	5 FEB	89.2	70.9	278	202			
1976	014A	COSMOS 803	8588	USSR	12 FEB	96.3	65.8	621	548			
1976	014B		8689	USSR	12 FEB	96.2	65.8	621	538			
1976	014C		8690	USSR	12 FEB	96.3	65.8	620	545			
1976	017A	MARISAT 1	8697	US	19 FEB	1436.2	0.0	35806	35771			
1976	017C		8702	US	19 FEB	440.2	24.8	25386	197			
1976	019A	UME	8709	JAPAN	29 FEB	105.1	69.6	1012	994			
1976	019B		8710	JAPAN	29 FEB	105.1	69.6	1014	995			
1976	021A	MOLNIYA 1	8741	USSR	11 MAR	717.5	63.6	39699	644			
1976	021D		8411	USSR	11 MAR	731.0	63.6	40370	635			
1976	022A	COSMOS 807	8744	USSR	12 MAR	108.9	82.9	1961	399			
1976	022B		8745	USSR	12 MAR	108.7	82.9	1949	394			
1976	023A	LES 8	8746	US	15 MAR	1436.2	25.3	35807	35769			
1976	023B	LES 9	8747	US	15 MAR	1436.2	25.3	35809	35769			
1976	023C	SOLRAD 11A	8748	US	15 MAR	7347.8	27.5	119653	117987	136.530		8x
1976	023D	SOLRAD 11B	8749	US	15 MAR	7333.7	27.5	119543	117777			
1976	023F		8751	US	15 MAR	1465.4	25.5	36965	35753			
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	024A	COSMOS 808	8754	USSR	16 MAR	97.0	81.2	635	599			
1976	024B		8755	USSR	16 MAR	97.0	81.2	675	566			
1976	026A	MOLNIYA 1	8762	USSR	19 MAR	717.4	63.6	40001	340			
1976	026D		8797	USSR	19 MAR	697.9	63.6	38975	196			
1976	029A	RCA-SATCOM-II	8774	US	26 MAR	1436.2	0.0	35798	35780			
1976	025C		8793	US	26 MAR	532.9	26.1	30734	59			

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1976 LAUNCHES (CCNT.)											
1976	031A	COSMOS 812	8794	USSR	6 APR	95.0	74.0	539	507		
1976	031B		8705	USSR	6 APR	94.9	74.0	541	495		
1976	031C		5936	USSR	6 APR	92.5	74.0	419	386		
1976	031D		9990	USSR	6 APR	92.3	73.9	402	380		
1976	032A	METEOR	8799	USSR	7 APR	102.2	81.2	894	840		
1976	032B		8900	USSR	7 APR	102.3	81.2	917	827		
1976	035A	NATO III-A	8809	NATO	22 APR	1436.1	2.0	35798	35775		
1976	035C		8910	US	22 APR	578.1	25.7	33144	76		
1976	037A	COSMOS 816	8812	USSR	28 APR	94.4	65.8	508	472		
1976	037B		8814	USSR	28 APR	94.2	65.8	507	463		
1976	038A		8813	US	30 APR	107.4	63.4	1156	1065		
1976	038B		8819	US	30 APR	107.3	63.4	1150	1061		
1976	038C	SSU-1	8835	US	30 APR	107.4	63.4	1155	1068		
1976	038D	SSU-2	8836	US	30 APR	107.4	63.4	1155	1067		
1976	038E		8839	US	30 APR	107.6	63.4	1163	1072		
1976	038F		8842	US	30 APR	107.3	63.4	1151	1060		
1976	038G		8843	US	30 APR	107.6	63.4	1164	1072		
1976	038H		8859	US	30 APR	107.1	63.4	1137	1050		
1976	038J	SSU-3	8884	US	30 APR	107.4	63.4	1156	1066		
1976	038K		8796	US	30 APR	107.1	63.4	1137	1050		
1976	038L		9995	US	30 APR	107.1	63.4	1136	1052		
1976	039A	LAGEOS	8820	US	4 MAY	225.4	109.8	5946	5837		
1976	039B		8821	US	4 MAY	151.6	109.6	5785	303		
1976	039C		8822	US	4 MAY	225.4	109.8	5946	5836		
1976	041A	MOLNIYA 3	8833	USSR	12 MAY	717.6	64.1	39716	830		
1976	041D		8844	USSR	12 MAY	733.5	64.1	40515	613		
1976	042A	COMSTAR 1	8838	US	13 MAY	1436.1	0.1	35795	35780		
1976	042B		8840	US	13 MAY	649.4	21.2	36238	692		
1976	043A	METEOR	8845	USSR	15 MAY	102.2	81.2	892	839		
1976	043B		8846	USSR	15 MAY	102.4	81.2	915	835		
1976	047A	P 76-5	8860	US	22 MAY	105.6	99.4	1060	994		
1976	047B		8861	US	22 MAY	105.6	99.6	1059	994		
1976	047C		8867	US	22 MAY	106.5	99.3	1127	1010		
1976	047D		8868	US	22 MAY	104.9	100.0	1034	952		
1976	049A	COSMOS 822	8865	USSR	28 MAY	92.8	74.0	557	268		
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	104.9	82.9	1012	977		
1976	051B		8874	USSR	2 JUN	104.8	82.9	1003	975		
1976	053A	MARISAT 2	8982	US	10 JUN	1436.2	1.5	35797	35780		
1976	053F		8910	US	10 JUN	613.5	25.7	34816	260		
1976	054A	COSMOS 825	8889	USSR	15 JUN	114.7	73.9	1488	1397		
1976	054B	COSMOS 826	8890	USSR	15 JUN	116.2	73.9	1546	1463		
1976	054C	COSMOS 827	8891	USSR	15 JUN	114.9	74.0	1490	1415		
1976	054D	COSMOS 828	8892	USSR	15 JUN	115.1	73.9	1490	1434		
1976	054E	COSMOS 829	8893	USSR	15 JUN	115.3	73.9	1491	1452		
1976	054F	COSMOS 830	8894	USSR	15 JUN	115.5	73.9	1494	1470		
1976	054G	COSMOS 831	8895	USSR	15 JUN	115.8	73.9	1500	1476		
1976	054H	COSMOS 832	8896	USSR	15 JUN	116.0	73.9	1522	1483		
1976	054J		8897	USSR	15 JUN	117.9	73.9	1691	1487		
1976	056A	INTERCOSMOS 15	8903	USSR	19 JUN	94.4	74.0	508	479		
1976	056B		8904	USSR	19 JUN	94.3	74.0	508	471		
1976	059C		8915	US	26 JUN			CURRENT ELEMENTS NOT MAINTAINED			
1976	059D		8918	US	26 JUN			CURRENT ELEMENTS NOT MAINTAINED			
1976	059E		8919	US	26 JUN			CURRENT ELEMENTS NOT MAINTAINED			
1976	061A	COSMOS 836	8923	USSR	29 JUN	100.9	74.0	817	790		
1976	061E		8924	USSR	29 JUN	100.8	74.0	811	787		
1976	062A	COSMOS 837	8927	USSR	1 JUL	98.4	62.7	959	408		
1976	062E		8931	USSR	1 JUL	98.3	62.7	947	410		
1976	063B	- 063 AS		USSR	2 JUL	SEE NOTE		25*			
1976	065B		9007	US	8 JUL	174.3	97.5	7656	230		25*
1976	065C		9008	US	8 JUL	97.2	96.3	630	626		
1976	066A	PALAPA 1	9009	INCONSA	8 JUL			CURRENT ELEMENTS NOT MAINTAINED			
1976	066C		9017	US	8 JUL	627.9	24.6	35554	272		
1976	067A	COSMOS 839	9011	USSR	8 JUL	115.7	65.9	2067	908		
1976	067B	- 067 AL		USSR	8 JUL	SEE NOTE		26*			26*

INTER-NATIONAL DESIGNATION		OBJECTS IN ORBIT		PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
NAME	CATALOG NUMBER	SOURCE	LAUNCH						
1976 LAUNCHES (CNT.)									
1976 069A	COSMOS 841	9022	USSR	15 JUL	100.7	74.0	809	785	
1976 069B		9023	USSR	15 JUL	100.6	74.0	807	778	
1976 070A	COSMOS 842	9025	USSR	21 JUL	104.9	82.9	1010	972	
1976 070B		9044	USSR	21 JUL	104.7	82.9	1000	970	
1976 073A	COMSTAR 2	9047	US	22 JUL	1436.1	0.1	35794	35779	
1976 073B		9329	US	22 JUL	648.3	21.7	36278	593	
1976 074A	MOLNIYA 1	9049	USSR	23 JUL	717.6	63.1	39588	757	
1976 074E		9269	USSR	23 JUL	698.4	63.0	38655	739	
1976 075A	COSMOS 845	9053	USSR	27 JUL	95.1	74.0	550	501	
1976 075B		9054	USSR	27 JUL	95.0	74.0	545	497	
1976 075C		9058	USSR	27 JUL	93.2	74.0	446	424	
1976 075D		9267	USSR	27 JUL	96.4	73.9	692	485	
1976 075E		9268	USSR	27 JUL	96.8	74.0	717	504	
1976 075F		9665	USSR	27 JUL	93.5	74.0	459	437	
1976 075G		9718	USSR	27 JUL	93.4	74.1	456	436	
1976 075H		9789	USSR	27 JUL	93.7	74.0	478	444	
1976 076A	INTERCOSMCS 16	9055	USSR	27 JUL	94.2	50.5	508	457	
1976 076B		9056	USSR	27 JUL	94.2	50.5	502	456	
1976 077A	NOAA 5	9057	US	29 JUL	116.2	102.0	1523	1506	136.770, 137.140, 137.500, 137.620, 1697.500
1976 077B		9063	US	29 JUL	116.2	102.0	1522	1507	
1976 078A	COSMCS 846	9061	USSR	29 JUL	104.7	82.9	1014	954	
1976 078B		9062	USSR	26 JUL	104.6	82.9	1001	955	
1976 080A		9270	US	6 AUG	CURRENT	CURRENT	ELEMENTS NOT MAINTAINED		
1976 080B		9271	US	6 AUG	CURRENT	CURRENT	ELEMENTS NOT MAINTAINED		
1976 083A	COSMOS 849	9382	USSR	18 AUG	92.8	70.9	585	249	
1976 085A	COSMCS 851	9389	USSR	27 AUG	96.6	81.2	636	565	
1976 085B		9390	USSR	27 AUG	96.7	81.2	664	543	
1976 087A		9394	PRC	30 AUG	102.2	69.1	1546	190	
1976 087B		9395	PRC	30 AUG	93.0	69.0	678	168	
1976 089A	TIP 3	9403	US	1 SEP	97.8	89.2	850	453	
1976 089B		9404	US	1 SEP	94.4	90.3	647	335	
1976 089C		9409	US	1 SEP	92.2	90.1	469	299	
1976 089D		9410	US	1 SEP	94.2	90.4	635	334	
1976 091A		9415	US	11 SEP	101.5	98.6	846	819	
1976 091B		9419	US	11 SEP	101.5	98.6	845	817	
1976 091C		9420	US	11 SEP	101.5	98.6	846	819	
1976 091D		9474	US	11 SEP	101.4	98.7	844	812	
1976 091E		9483	US	11 SEP	101.5	98.6	851	815	
1976 091F		9484	US	11 SEP	101.5	98.6	853	816	
1976 091G		9518	US	11 SEP	101.5	98.6	846	816	
1976 092A	RADUGA	9416	USSR	11 SEP	1436.1	0.5	35803	35773	
1976 098A	COSMOS 858	9443	USSR	29 SEP	100.8	74.0	812	790	
1976 098B		9444	USSR	29 SEP	100.7	74.0	813	779	
1976 101A	MARISAT 3	9478	US	14 OCT	1436.1	1.7	35794	35780	
1976 102A	MET EGR	9481	USSR	15 OCT	102.4	81.2	892	856	
1976 102B		9482	USSR	15 OCT	102.5	81.2	925	834	
1976 103A	COSMOS 860	9486	USSR	17 OCT	104.3	64.6	1022	904	
1976 104A	COSMOS 861	9494	USSR	21 OCT	104.3	64.8	985	939	
1976 105A	COSMOS 862	9495	USSR	22 OCT	717.1	64.2	39216	1103	
1976 105D		9504	USSR	22 OCT	711.7	64.0	38911	1147	
1976 105E		9888	USSR	22 OCT	721.4	63.7	39143	1390	
1976 105F		9889	USSR	22 OCT	717.2	64.2	39231	1096	
1976 105G		9890	USSR	22 OCT	715.2	64.2	40000	220	
1976 105H		9991	USSR	22 OCT	717.4	64.2	39263	1074	
1976 105J		9892	USSR	22 OCT	717.9	63.9	39198	1166	
1976 105K		9393	USSR	22 OCT	716.4	64.2	38944	1345	
1976 105L		9894	USSR	22 OCT	714.9	64.0	39216	998	
1976 105M		9895	USSR	22 OCT	719.6	64.0	39448	1000	
1976 105N		9896	USSR	22 OCT	733.4	64.2	39836	1290	
1976 105P		9902	USSR	22 OCT	729.0	64.3	40066	847	
1976 107A	EKRAN	9503	USSR	26 OCT	1436.0	0.4	36055	35515	
1976 108A	COSMOS 864	9509	USSR	29 OCT	104.8	82.9	1010	966	
1976 108B		9510	USSR	29 OCT	104.7	82.9	1001	963	
1976 111F		9582	USSR	23 NOV	89.3	62.8	253	234	

INTERNATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT							NOTES
		CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERI GEE KM.	
1976 LAUNCHES (CONT.)									
1976 112A	PROGNOZ 5	9557	USSR	25 NOV	5728.6	66.5	195482	3869	
1976 113A	COSMOS 868	9561	USSR	26 NOV	92.7	65.0	426	389	
1976 115A	COSMOS 870	9573	LSSR	2 DEC	95.1	73.9	539	516	
1976 115B		9576	USSR	2 DEC	95.0	74.0	555	490	
1976 115C		9577	USSR	2 DEC	92.6	73.9	412	398	
1976 115D		9991	USSR	2 DEC	93.8	73.9	480	451	
1976 115E		9992	LSSR	2 DEC	93.9	73.9	482	452	
1976 115F		9993	USSR	2 DEC	93.9	74.0	483	455	
1976 116A	MOLNIYA 2	9574	LSSR	2 DEC	717.7	63.7	39696	658	
1976 116D		9579	LSSR	2 DEC	731.9	63.7	40400	652	
1976 118A	COSMOS 871	9588	LSSR	7 DEC	114.7	74.0	1466	1419	
1976 118B	COSMOS 872	9589	USSR	7 DEC	114.4	74.0	1466	1400	
1976 118C	COSMOS 873	9590	USSR	7 DEC	116.6	74.0	1497	1465	
1976 118D	COSMOS 874	9591	USSR	7 DEC	115.7	74.0	1517	1466	
1976 118E	COSMOS 875	9592	USSR	7 DEC	114.9	74.0	1466	1438	
1976 118F	COSMOS 876	9593	LSSR	7 DEC	116.0	74.0	1540	1465	
1976 118G	COSMOS 877	9594	USSR	7 DEC	115.1	74.0	1466	1456	
1976 118H	COSMOS 878	9595	USSR	7 DEC	115.3	74.0	1476	1465	
1976 118J		9598	LSSR	7 DEC	117.6	74.0	1699	1465	
1976 120A	COSMOS 880	9601	USSR	9 DEC	96.4	65.8	615	560	
1976 120B		9604	LSSR	9 DEC	96.2	65.8	617	545	
1976 120C		9605	LSSR	9 DEC	96.4	65.8	615	559	
1976 122A	COSMOS 883	9610	USSR	15 DEC	104.8	82.9	1012	961	
1976 122B		9613	LSSR	15 DEC	104.6	82.9	1002	959	
1976 124A	COSMOS 885	9615	LSSR	17 DEC	94.7	65.8	497	468	
1976 124B		9625	USSR	17 DEC	94.1	65.8	496	456	
1976 124U		10301	LSSR	17 DEC	91.5	65.8	360	340	
1976 125A		9627	US	19 DEC	91.6	65.9	450	258	
1976 126A	COSMOS 886	9634	USSR	27 DEC	113.8	65.8	2307	496	
1976 126B	126BJ		LSSR	27 DEC	SEE NOTE		27*		27*
1976 127A	MOLNIYA 3	9635	LSSR	28 DEC	717.6	63.2	39700	646	
1976 127E		9647	USSR	28 DEC	732.4	63.2	40429	646	
1976 128A	COSMOS 887	9637	LSSR	28 DEC	104.7	82.9	1019	950	
1976 128B		9638	USSR	28 DEC	104.6	82.9	1008	950	
1977 LAUNCHES									
1977 002A	METEOR 2	9661	LSSR	6 JAN	102.9	81.2	906	889	
1977 002B		9662	USSR	6 JAN	102.9	81.2	939	863	
1977 002C		9663	LSSR	6 JAN	102.8	81.2	901	887	
1977 002D		9664	USSR	6 JAN	102.8	81.2	903	889	
1977 004A	COSMOS 890	9737	USSR	20 JAN	105.1	82.9	1021	980	
1977 004B		9738	USSR	20 JAN	104.9	82.9	1005	980	
1977 005A	NATO III-B	9785	NATO	28 JAN	1436.1	2.4	35797	35778	
1977 005B		9786	US	28 JAN	104.2	28.0	1299	617	
1977 005C		9787	US	28 JAN	611.6	25.9	34754	228	
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 006A	COSMOS 891	9801	USSR	2 FEB	94.4	65.8	512	469	
1977 006B		9802	LSSR	2 FEB	94.2	65.8	511	458	
1977 007A		9803	US	6 FEB	CURRENT ELEMENTS		NOT MAINTAINED		
1977 007C		9855	US	6 FEB	CURRENT ELEMENTS		NOT MAINTAINED		
1977 007D		9856	US	6 FEB	CURRENT ELEMENTS		NOT MAINTAINED		
1977 010A	MOLNIYA 2	9829	USSR	11 FEB	717.7	62.9	39534	818	
1977 010E		9850	LSSR	11 FEB	731.0	62.9	40198	807	
1977 011A	COSMOS 893	9833	USSR	15 FEB	104.9	73.9	1650	331	
1977 011C		10486	LSSR	15 FEB	99.1	73.9	1121	316	
1977 012A	TANSEI 3	9841	JAPAN	19 FEB	134.1	65.7	3812	797	
1977 012B		9842	JAPAN	19 FEB	95.2	65.4	742	319	
1977 012C		9843	JAPAN	19 FEB	134.2	65.7	3814	796	
1977 012D		9844	JAPAN	19 FEB	94.5	64.9	677	319	
1977 012E		9981	JAPAN	19 FEB	133.9	65.1	3799	787	
1977 012F		9982	JAPAN	19 FEB	133.9	65.9	3804	781	
1977 012G		9983	JAPAN	19 FEB	134.4	65.6	3820	812	
1977 013A	COSMOS 894	9946	LSSR	21 FEB	104.9	82.9	1015	970	

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1977 LAUNCHES (CONT.)											
1977 013B			9848	USSR	21 FEB	104.8	82.9	1004	972		
1977 014A	KIKU 2		9852	JAPAN	23 FEB	1435.9	0.1	35785	35784		
1977 014B			9859	JAPAN	23 FEB	619.3	23.3	35134	246		
1977 015A	COSMOS 895		9853	USSR	26 FEB	97.1	81.1	633	611		
1977 015B			9854	USSR	26 FEB	97.1	81.1	689	551		
1977 018A	PALAPA 2		9962	INDNSA	10 MAR			CURRENT ELEMENTS	NOT MAINTAINED		
1977 018B			9864	US	10 MAR	640.6	24.3	36211	263		
1977 018E			9868	US	10 MAR	116.3	28.6	2828	202		
1977 021A	MOLNIYA 1		9880	USSR	24 MAR	717.6	63.0	39566	782		
1977 021D			9927	USSR	24 MAR	732.8	43.0	40323	772		
1977 022A	COSMOS 899		9883	USSR	24 MAR	95.0	74.0	547	498		
1977 022B			9884	USSR	24 MAR	94.9	74.0	540	494		
1977 022C			9900	USSR	24 MAR	93.7	74.0	478	442		
1977 023A	COSMOS 900		9898	USSR	29 MAR	94.2	82.9	517	450		
1977 023B			9999	USSR	29 MAR	94.1	82.9	514	440		
1977 024A	METEOR		9903	USSR	5 APR	102.4	81.2	806	854		
1977 024B			9904	USSR	5 APR	102.5	81.2	922	847		
1977 024C			9907	USSR	5 APR	104.6	82.9	1001	957		
1977 025A	COSMOS 901		9905	USSR	5 APR	93.9	70.9	679	258		
1977 025B			9906	USSR	5 APR	93.0	70.9	581	265		
1977 027A	COSMOS 903		9911	USSR	11 APR	717.7	62.9	39290	1061		
1977 027D			9921	USSR	11 APR	724.0	63.0	39621	1041		
1977 029A	ESA-GEOS		9931	ESA	20 APR	718.5	26.5	38317	2074		
1977 029C			9933	US	20 APR	223.6	26.0	11397	256		
1977 031A	COSMOS 906		9938	USSR	27 APR	94.3	50.6	500	461		
1977 032A	MOLNIYA 3		9941	USSR	28 APR	717.7	62.9	39604	748		
1977 034A			10000	US	12 MAY	1436.1	1.9	35905	35770		
1977 034B			10001	US	12 MAY	1436.2	2.0	35877	35699		
1977 034C			10002	US	12 MAY	1506.9	1.9	38578	35747		
1977 036A	COSMOS 909		10010	USSR	19 MAY	117.0	65.8	2102	995		
1977 036B			10011	USSR	19 MAY	116.9	65.8	2093	993		
1977 036C			10013	USSR	19 MAY	117.0	65.8	2103	995		
1977 038A			10016	US	23 MAY			CURRENT ELEMENTS	NOT MAINTAINED		
1977 038B			10017	US	23 MAY			CURRENT ELEMENTS	NOT MAINTAINED		
1977 039A	COSMOS 911		10019	USSR	25 MAY	104.8	82.9	1007	967		
1977 039B			10020	USSR	25 MAY	104.6	82.9	998	962		
1977 041A	INTELSAT 4A F-4		10024	ITSC	26 MAY	1436.2	0.1	35793	35783		
1977 041B			10225	US	26 MAY	649.2	21.8	36382	566		
1977 042A	COSMOS 913		10028	USSR	30 MAY	94.4	74.0	515	469		
1977 042B	- 042X			USSR	30 MAY			SEE NOTE	28*		28*
1977 044A			10033	US	5 JUN	101.5	99.1	868	801		
1977 044B			10034	US	5 JUN	101.5	99.1	868	802		
1977 044C			10037	US	5 JUN	101.5	99.1	868	801		
1977 044D			10085	US	5 JUN	101.5	99.1	866	801		
1977 047A	COSMOS 917		10059	USSR	16 JUN	717.5	62.8	39507	833		
1977 047D			10089	USSR	16 JUN	722.4	63.0	39750	825		
1977 048A	GOES 2		10061	US	16 JUN	1436.0	0.5	35792	35780	136.380, 468.825, 1582.500	54
1977 048B			10062	US	16 JUN	109.0	28.4	1785	571		
1977 048F			10409	US	16 JUN	659.5	22.9	37193	259		
1977 049A	SIGNE 3		10064	FRANCE	17 JUN	94.2	50.6	512	455	136.050, 135.670	
1977 049B			10069	USSR	17 JUN	94.2	50.6	513	448		
1977 051A	COSMOS 919		10070	USSR	18 JUN	94.3	71.0	716	264		
1977 051B			10071	USSR	18 JUN	93.4	71.0	628	258		
1977 053A			10091	US	23 JUN	717.9	63.3	20190	20171		
1977 054A	MOLNIYA 1		10092	USSR	24 JUN	717.6	63.1	39001	446		
1977 054D			10155	USSR	24 JUN	695.4	63.1	38778	467		
1977 055A	COSMOS 921		10095	USSR	24 JUN	97.9	75.8	699	620		
1977 055B			10096	USSR	24 JUN	97.8	75.8	699	617		
1977 057A	METEOR		10113	USSR	29 JUN	97.2	97.8	660	594		
1977 057B			10114	USSR	29 JUN	97.5	97.8	657	626		
1977 059A	COSMOS 923		10120	USSR	1 JUL	101.0	74.0	817	797		
1977 059B			10121	USSR	1 JUL	100.8	74.0	819	785		
1977 060A	COSMOS 924		10129	USSR	4 JUL	95.2	74.0	546	513		
1977 060B			10130	USSR	4 JUL	95.0	74.0	553	493		
1977 060C			10131	USSR	4 JUL	94.5	74.0	523	471		

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1977 LAUNCHES (CONT.)											
1977	061A	COSMOS 925	10134	USSR	7 JUL	97.0	81.2	634	606		
1977	061B		10135	USSR	7 JUL	97.2	81.2	677	676		
1977	062A	COSMOS 926	10137	USSR	8 JUL	105.0	92.9	1023	974		
1977	062B		10138	USSR	8 JUL	104.9	82.9	1012	975		
1977	064A	COSMOS 928	10141	USSR	13 JUL	104.7	82.9	1011	955		
1977	064B		10142	USSR	13 JUL	104.6	82.9	1007	954		
1977	055A	HIMAWARI	10143	JAPAN	14 JUL	1436.0	1.0	35793	35772		
1977	065B	065ES		US	14 JUL	SEE NOTE		29*			
1977	066A	COSMOS 929	10146	USSR	17 JUL	93.4	51.5	447	438		
1977	067A	COSMOS 930	10149	USSR	19 JUL	94.5	74.0	511	480		
1977	068A	COSMOS 931	10150	USSR	20 JUL	718.7	63.0	39657	746		
1977	068D		10167	USSR	20 JUL	720.9	63.0	40075	434		
1977	070A	COSMOS 933	10157	USSR	22 JUL	92.2	65.8	401	366		
1977	070B		10158	USSR	22 JUL	91.9	65.8	390	351		
1977	071A	RADUGA	10159	USSR	23 JUL	1436.0	0.1	35943	35626		
1977	071D		10276	USSR	23 JUL	644.6	46.6	36470	213		
1977	071E		10277	USSR	23 JUL	644.5	46.8	36547	129		
1977	075A	HEAD 1	10217	US	12 AUG	93.2	22.7	440	421	2247.000,2253.000	5*
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	077A	COSMOS 937	10278	USSR	24 AUG	93.2	65.0	444	428		
1977	079A	COSMOS 939	10282	USSR	24 AUG	114.8	74.0	1464	1433		
1977	079B	COSMOS 940	10286	USSR	24 AUG	114.4	74.0	1464	1395		
1977	079C	COSMOS 941	10287	USSR	24 AUG	114.6	74.0	1464	1415		
1977	079D	COSMOS 942	10288	USSR	24 AUG	115.9	74.0	1534	1464		
1977	079E	COSMOS 943	10289	USSR	24 AUG	115.0	74.0	1464	1452		
1977	079F	COSMOS 944	10290	USSR	24 AUG	115.2	74.0	1472	1463		
1977	079G	COSMOS 945	10291	USSR	24 AUG	115.4	74.0	1492	1464		
1977	079H	COSMOS 946	10292	USSR	24 AUG	115.6	74.0	1512	1463		
1977	079J		10293	USSR	24 AUG	117.5	74.0	1580	1464		
1977	080A	SIPIO	10294	ITALY	25 AUG	1436.1	0.2	35795	35777	136.140,135.620	5*
1977	080B		10295	US	25 AUG	115.4	27.0	2078	871		
1977	080C		10296	US	25 AUG	658.3	22.8	37142	240		
1977	080D		10297	US	25 AUG	98.5	28.0	1173	199		
1977	082A	MOLNIYA 1	10315	USSR	30 AUG	717.6	62.9	30777	571		
1977	082E		10369	USSR	30 AUG	732.0	62.8	40493	572		
1977	084A	VOYAGER 1	10321	US	5 SEP			SOLAR SYSTEM ESCAPE TRAJECTORY			
1977	084B		10322	US	5 SEP			HELIOCENTRIC ORBIT			
1977	084C		10323	US	5 SEP			HELIOCENTRIC ORBIT			
1977	087A	COSMOS 951	10352	USSR	13 SEP	104.9	82.9	1018	965		
1977	087B		10355	USSR	13 SEP	104.8	82.9	1010	965		
1977	088A	COSMOS 952	10358	USSR	16 SEP	104.1	64.9	1000	907		
1977	090A	COSMOS 954	10361	USSR	18 SEP	89.3	64.9	250	232		
1977	091A	COSMOS 955	10362	USSR	20 SEP	97.3	81.2	642	628		
1977	091B		10363	USSR	20 SEP	97.4	81.2	686	592		
1977	091C		10364	USSR	20 SEP	97.3	81.2	642	628		
1977	092A	ERKAN	10365	USSR	20 SEP	1436.9	0.2	35871	35697		
1977	092E		10409	USSR	20 SEP	624.5	47.0	35446	205		
1977	092F		10484	USSR	20 SEP	626.8	46.9	35510	258		
1977	093A	PROGNOZ 6	10370	USSR	22 SEP	5691.7	46.8	197284	1155		
1977	095A	COSMOS 956	10375	USSR	24 SEP	96.7	75.8	858	354		
1977	095B		10378	USSR	24 SEP	96.7	75.8	857	352		
1977	096A	INTERCOSMOS 17	10376	USSR	24 SEP	94.3	82.9	511	463		
1977	096B		10377	USSR	24 SEP	94.2	82.9	515	451		
1977	096C		10379	USSR	24 SEP	93.1	82.8	455	409		
1977	097A	SALYUT 6	10382	USSR	29 SEP	91.3	51.5	352	332		
1977	097D		10533	USSR	29 SEP	91.2	51.5	348	326		30*
1977	097E		10545	USSR	29 SEP	91.3	51.5	351	339		
1977	097F		10547	USSR	29 SEP	91.3	51.5	350	328		
1977	097G		10548	USSR	29 SEP	91.4	51.6	352	337		
1977	100D		10426	USSR	11 OCT	91.5	62.8	376	324		
1977	100E		10427	USSR	11 OCT	92.1	62.8	404	352		
1977	100F		10428	USSR	11 OCT	92.2	62.8	417	351		
1977	100G		10429	USSR	11 OCT	90.6	62.7	310	290		
1977	102A	ISEE 1	10422	US	22 OCT	3440.8	31.1	137377	862	2215.500,2204.800	5*

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1977 LAUNCHES (CONT.)										
1977 102B	ISEE 2	10423	ESA	22 OCT	3442.0	31.3	137452	923	2260.800	5*
1977 102C		10424	US	22 OCT	95.4	28.7	801	274		
1977 102D		10425	US	22 OCT	3552.3	28.8	141204	278		
1977 103A	COSMOS 960	10430	USSR	22 OCT	95.0	74.0	547	498		
1977 103B		10431	USSR	22 OCT	94.9	74.0	541	494		
1977 103C		10432	USSR	22 OCT	94.5	74.0	553	445		
1977 105A	MOLNIYA 3	10455	USSR	28 OCT	717.6	62.8	39928	423		
1977 105E		10455	USSR	28 OCT	731.6	62.8	40597	440		
1977 106A	TRANSAT	10457	US	28 OCT	106.9	89.9	1105	1070		
1977 106B		10462	US	28 OCT	106.9	89.9	1105	1071		
1977 107A	COSMOS 962	10459	USSR	28 OCT	104.8	82.9	1011	967		
1977 107B		10461	USSR	28 OCT	104.7	82.9	1002	967		
1977 108A	METEOSAT 1	10489	ESA	23 NOV	1411.5	0.7	35692	34913	1080	5*
1977 108B		10490	US	23 NOV	116.9	29.3	2597	438		
1977 109A	COSMOS 963	10491	USSR	24 NOV	109.2	82.9	1209	1181		
1977 109B		10492	USSR	24 NOV	109.1	82.9	1203	1175		
1977 110C		10500	USSR	4 DEC	89.4	72.9	324	169		
1977 111A	COSMOS 965	10501	USSR	8 DEC	94.3	74.0	515	465		
1977 111B		10503	USSR	8 DEC	94.3	74.0	514	457		
1977 111C		10505	USSR	8 DEC	94.0	74.0	513	435		
1977 112A		10502	US	8 DEC	106.0	63.4	1138	1033		
1977 112B		10504	US	8 DEC	107.5	63.4	1178	1053		
1977 112C		10528	US	8 DEC	107.6	63.4	1180	1055		
1977 112D		10529	US	8 DEC	107.5	63.4	1169	1054		
1977 112E		10544	US	8 DEC	107.5	63.4	1167	1054		
1977 113A	SOYUZ 26	10506	USSR	10 DEC	91.3	51.5	351	332		30*
1977 114A		10508	US	11 DEC						
1977 114B		10509	US	11 DEC						
1977 114B		10538	USSR	12 DEC	89.1	65.8	268	196		
1977 115D		10512	USSR	13 DEC	104.7	65.8	1005	963		
1977 116A	COSMOS 967	10513	USSR	13 DEC	104.5	65.8	993	958		
1977 116B		10513	USSR	13 DEC	104.7	65.8	1003	963		
1977 116C		10518	USSR	13 DEC	105.0	65.8	1018	979		
1977 116D		10525	USSR	13 DEC	102.4	81.2	893	855		
1977 117A	METEOR 2	10514	USSR	14 DEC	102.4	81.2	893	841		
1977 117H		10515	USSR	14 DEC	102.4	81.2	893	841		
1977 118A	SAKURA	10516	JAPAN	15 DEC	1439.9	0.0	36157	35567	2286.500	
1977 118B		10517	US	15 DEC	111.3	28.6	2088	482		
1977 118C		10519	US	15 DEC	111.3	28.6	2088	482		
1977 119A	COSMOS 968	10520	USSR	16 DEC	100.7	74.0	810	782		
1977 119B		10521	USSR	16 DEC	100.6	74.0	803	775		
1977 119C		10524	USSR	16 DEC	101.3	74.0	843	804		
1977 119D		10525	USSR	16 DEC	101.3	74.0	845	804		
1977 120A	COSMOS 969	10527	USSR	20 DEC	89.0	62.8	295	164		
1977 121A	COSMOS 970	10531	USSR	21 DEC	106.0	65.8	1139	947		
1977 121C		10535	USSR	21 DEC	105.9	65.8	1140	938		
1977 122A	COSMOS 971	10536	USSR	23 DEC	104.9	82.9	1009	980		
1977 122B		10537	USSR	23 DEC	104.8	82.9	1002	976		
1977 123A	COSMOS 972	10539	USSR	27 DEC	103.9	75.8	1170	714		
1977 123B		10541	USSR	27 DEC	103.8	75.8	1165	714		
1977 124A	COSMOS 973	10540	USSR	27 DEC	89.8	71.4	323	202		
1977 124B		10542	USSR	27 DEC	89.2	71.4	264	206		

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 JAN 1978

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 THE COSMOS DIVISION
 JAN 1978

FCOTNOTES

- 1* 254 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1961 CMICRON 1 AND 1961 CMICFCN 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* 98 OBJECTS 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* 13 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* 146 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 020A, 1965 020B, AND 1965 020C. 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.
- 5* TRANSMITTING COMMAND ONLY.
- 6* 464 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.
- 7* DEBRIS DISCOVERED IN ORBIT WHICH HAS NOT BEEN IDENTIFIED WITH ANY LAUNCH OR COUNTRY OF ORIGIN.
- 8* 77 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 056A. 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* 21 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1967 001A. 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.
- 10* 81 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.
- 11* 117 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.
- 12* 37 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1969 029A. 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* A MANNED SPACECRAFT WHICH SUCCESSFULLY LANDED ON THE MOON AND RETURNED TO SELENOCENTRIC ORBIT.
- 14* 241 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.
- 15* 325 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.
- 16* 90 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1970 080A. 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* 38 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1970 091A. 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.
- 18* DEBRIS DISCOVERED IN ORBIT WHICH HAS NOT BEEN IDENTIFIED WITH ANY LAUNCH.
- 19* 83 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.

1970 DEC 31
 1971 JAN 31
 1971 FEB 28
 1971 MAR 31
 1971 APR 30
 1971 MAY 31
 1971 JUN 30
 1971 JUL 31
 1971 AUG 31
 1971 SEP 30
 1971 OCT 31
 1971 NOV 30
 1971 DEC 31

FOOTNOTES (CONT)

- 20* 215 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.
- 21* 177 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.
- 22* 126 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1974 089A, 1974 089B, AND 1974 089C. 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.
- 23* 50 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1974 103A. 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* 197 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.
- 25* 40 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 063A. 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* 34 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 067A.
- 27* 56 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.
- 28* 21 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977 042A.
- 29* 136 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977 065A. 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.
- 30* ANNOUNCED THAT 1977 97A AND 1977 113A ARE DOCKED.
- NNA NO CATALOG NUMBER ASSIGNED.

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

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	NOTES
1977 110A	COSMOS 964	1049E	USSR	4 DEC	89.8	72.0	365	188	
1977 110B		1049S	USSR	4 DEC	89.7	72.0	353	187	
1977 110D		10522	USSR	4 DEC	89.6	72.0	361	184	
1977 110E		10523	USSR	4 DEC	89.2	72.0	311	183	
1977 113B	COSMOS 966	10507	USSR	10 DEC	88.6	51.6	222	187	
1977 115A		10510	USSR	12 DEC	89.4	65.0	286	202	
1977 115B		10511	USSR	12 DEC	89.3	65.0	278	199	
1977 115C		10534	USSR	12 DEC	89.2	65.0	268	198	
1977 120B		10530	USSR	20 DEC	89.2	62.8	295	175	
1977 121B		10532	USSR	21 DEC	94.1	63.2	800	142	
1977 123C		10546	USSR	27 DEC	INITIAL	ELEMENTS	NOT	AVAILABLE	
1977 124C		10543	USSR	27 DEC	89.1	71.5	271	193	

OBJECTS DECAYED WITHIN THE REPORTING PERIOD

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 1139	COSMOS 966	10E07	USSR	10 DEC	12 DEC 77	
1977 11FA		10E10	USSR	12 DEC	24 DEC 77	
1977 115B		10E11	USSR	12 DEC	18 DEC 77	
1977 115C		10E34	USSR	12 DEC	29 DEC 77	
1977 120B		10E30	USSR	20 DEC	26 DEC 77	
1977 1213		10E32	USSR	21 DEC	25 DEC 77	
1977 123C		10E46	USSR	27 DEC	31 DEC 77	
1977 124C		10E43	USSR	27 DEC	31 DEC 77	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMEER	SOURCE	LAUNCH	DECAY	NOTES
1957 LAUNCHES						
ALPHA 1		1	USSR	4 OCT	1 DEC 57	
ALPHA 2	SPUTNIK 1	2	USSR	4 OCT	FABLY 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						
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	LUNIK 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	LUNIK 2	114	USSR	12 SEP	15 SEP 59	A*
1960 LAUNCHES						
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	
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	
ZETA 1	MICAS 2	43	US	24 MAY	7 FEB 74	
ZETA 2		44	US	24 MAY	5 DEC 60	
THETA 1	DISCOVERER 13	46	US	10 AUG	14 NOV 60	
THETA 1	CAPSULE	NNA	US	10 AUG	11 AUG 60	R*
TOTA 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	R*
LAMBDA 1	SPUTNIK 5	55	USSR	19 AUG	20 AUG 60	C*
LAMBDA 2		56	USSR	19 AUG	25 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	
MICRON 1	DISCOVERER 17	61	US	12 NOV	29 DEC 60	
OMICRON 1	CAPSULE	NNA	US	12 NOV	14 NOV 60	
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	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1960 LAUNCHES (CONT.)						
SIGMA 1	CAPSULE	NNA	US	7 DEC	10 DEC 60	F*
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 8		8237	US	16 FEB	20 JUL 74	
EPSILON 1	DISCOVERER 20	83	US	17 FEB	28 JUL 62	
EPSILON 2		88	US	17 FEB 30	MAP-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 & LOFTI	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	
ICTA 3		97	USSR	25 MAR	26 MAR 61	
KAPPA 1	EXPLORER 10	98	US	25 MAR	JUN 68	
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	F*
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	F*
XI 2		109	US	16 JUN	19 JUN 61	
OMICRON 25		140	US	20 JUN	30 SEP 62	
OMICRON 27		142	US	20 JUN	25 DEC 67	
OMICRON 28		143	US	20 JUN	16 JUN 62	
OMICRON 31		146	US	20 JUN	7 JUL 69	
OMICRON 35		151	US	20 JUN	2 DEC 67	
OMICRON 46		171	US	20 JUN	29 JAN 62	
OMICRON 57		220	US	20 JUN	21 FEB 66	
OMICRON 62		231	US	20 JUN	13 FEB 65	
OMICRON 67		236	US	20 JUN	13 MAY 69	
OMICRON 68		237	US	20 JUN	12 APR 69	
OMICRON 69		238	US	20 JUN	7 DEC 60	
OMICRON 70		239	US	20 JUN	17 JUN 67	
OMICRON 94		321	US	20 JUN	26 FEB 60	
OMICRON 95		322	US	20 JUN	6 JUN 69	
OMICRON 101		328	US	20 JUN	3 MAY 70	
OMICRON 105		332	US	20 JUN	20 SEP 70	
OMICRON 113		352	US	20 JUN	10 DEC 66	
OMICRON 119		368	US	20 JUN	31 AUG 66	
OMICRON 120		386	US	20 JUN	31 AUG 65	
OMICRON 154		473	US	20 JUN	2 MAR 72	
OMICRON 164		531	US	20 JUN	15 APR 71	
OMICRON 182		557	US	20 JUN	14 FEB 67	
OMICRON 190		646	US	20 JUN	7 JUN 72	
OMICRON 198		684	US	20 JUN	3 JUL 68	
OMICRON 213		3037	US	20 JUN	1 FEB 68	
OMICRON 218		3740	US	20 JUN	25 DEC 74	
OMICRON 224		3568	US	20 JUN	3 JUN 69	
OMICRON 225		3969	US	20 JUN	27 JUN 60	
OMICRON 230		4027	US	20 JUN	19 DEC 70	

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INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1961 LAUNCHES (CONT.)						
OMICRON 237		5747	US	29 JUN	3 JAN 77	
OMICRON 242		5787	US	29 JUN	28 AUG 74	
OMICRON 248		5672	US	29 JUN	30 OCT 76	
OMICRON 249		5986	US	29 JUN	7 DEC 76	
OMICRON 250		6179	US	29 JUN	20 NOV 76	
OMICRON 251		6746	US	29 JUN	21 DEC 74	
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	168	USSR	6 AUG	7 AUG 61	E*
TAU 2		169	USSR	6 AUG	9 AUG 61	
UPSILON 1	EXPLORER 12	170	US	16 AUG	SFP 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 SFP 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	14 SEP	13 SEP 61	B*
A-ALPHA 2		184	US	14 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	
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	20 NOV	29 NOV 61	B*
A-IOTA 2		209	US	20 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	FR IENDSHIP 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 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	

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1962 LAUNCHES (CNT.)

NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
	27C	USSR	6 APR	6 OCT 62	
	272	US	9 APR	4 MAY 62	
	4494	US	0 APR	22 MAY 77	
	5703	US	0 APR	7 NOV 76	
	276	US	18 APR	28 MAY 62	
	277	US	18 APR	20 APR 62	
	278	US	18 APR	21 APR 62	
	279	US	18 APR	21 APR 62	
MU 1	RANGER 4	US	23 APR	26 APR 62	
NU 1	COSMOS 3	USSR	24 APR	17 OCT 62	G*
NU 2	COSMOS 4	USSR	24 APR	5 AUG 62	
XI 1		USSR	26 APR	29 APR 62	
XI 2		USSR	26 APR	17 JUN 62	
XI 3		USSR	26 APR	3 MAY 62	
OMICRON 1	ARIEL 1	US/UK	26 APR	24 MAY 76	
OMICRON 2		US	26 APR	28 APR 71	
PI 1		US	26 APR	28 APR 62	
RHO 1		US	29 APR	26 MAY 62	
RHO 2		US	29 APR	1 MAY 62	
SIGMA 1		US	15 MAY	26 NOV 63	
SIGMA 2		US	15 MAY	3 JUL 62	
SIGMA 3		US	15 MAY	13 JUL 62	
TAU 1	AURORA 7	US	24 MAY	24 MAY 62	F*
TAU 2		US	24 MAY	25 MAY 62	
UPSILON 1	COSMOS 5	USSR	28 MAY	2 MAY 63	
UPSILON 2		USSR	28 MAY	15 DEC 62	
PHI 1		US	30 MAY	11 JUN 62	
PHI 2		US	30 MAY	2 JUN 62	
CHI 1	OSCAR 2	US	2 JUN	21 JUN 62	
CHI 2		US	2 JUN	6 JUN 62	
CHI 3		US	17 JUN	18 JUN 62	
PSI 1		US	18 JUN	26-30 OCT 63	
OMEGA 1		US	18 JUN	12 JUL 62	
OMEGA 2		US	18 JUN	14 JUL 62	
OMEGA 3		US	19 JUN	30 OCT 76	
A-ALPHA 5		US	23 JUN	7 JUL 62	
A-BETA 1		US	28 JUN	14 SEP 62	
A-GAMMA 1		USSR	30 JUN	8 AUG 62	
A-DELTA 1	COSMOS 6	USSR	30 JUN	8 SEP 62	
A-DELTA 2		US	18 JUL	25 JUL 62	
A-ZETA 1		US	18 JUL	27 JUL 62	
A-ZETA 2		US	21 JUL	14 AUG 62	
A-ETA 1		US	28 JUL	24 AUG 62	
A-THETA 1	COSMOS 7	USSR	28 JUL	1 AUG 62	
A-IOTA 1		USSR	28 JUL	21 AUG 62	
A-IOTA 2		USSR	28 JUL	31 JUL 62	
A-IOTA 3		USSR	28 JUL	30 JUL 62	
A-IOTA 4		US	2 AUG	26 AUG 62	
A-KAPPA 1		US	2 AUG	8 AUG 62	
A-KAPPA 2		US	6 AUG	6 AUG 62	
A-LAMBDA 1	VOSTOK 3	USSR	11 AUG	15 AUG 62	E*
A-MU 1		USSR	11 AUG	14 AUG 62	
A-MU 2	VOSTOK 4	USSR	12 AUG	15 AUG 62	E*
A-NU 1		USSR	12 AUG	14 AUG 62	
A-NU 2		USSR	13 AUG	17 AUG 62	
A-XI 1	COSMOS 8	USSR	13 AUG	19 AUG 62	
A-XI 2		USSR	18 AUG	28 AUG 62	
A-PI 1		USSR	25 AUG	2 SEP 62	
A-PI 2		USSR	25 AUG	31 AUG 62	
A-PI 3		USSR	25 AUG	5 SEP 62	
A-PI 4		USSR	25 AUG	30 AUG 62	
A-PI 5		USSR	25 AUG	6 SEP 62	
A-PI 6		USSR	25 AUG	8 SEP 62	
A-PI 7		USSR	25 AUG	5 SEP 62	
A-PI 8		US	29 AUG	10 SEP 62	
A-SIGMA 1					

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INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1962 LAUNCHES (CONT.)						
A-TAU 1		381	USSR	1 SEP	6 SEP 62	
A-TAU 2		382	USSR	1 SEP	3 SEP 62	
A-TAU 3		383	USSR	1 SEP	3 SEP 62	
A-TAU 4		384	USSR	1 SEP	21 SEP 62	
A-UPSILCN 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		396	US	17 SEP	16 NOV 62	
A-OMEGA 1		422	USSR	27 SEP	1 OCT 62	
A-OMEGA 2		423	USSR	27 SEP	22 DEC 62	
A-OMEGA 3		424	USSR	27 SEP	6 OCT 62	
A-OMEGA 4		425	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		432	USSR	27 SEP	6 OCT 62	
B-BETA 1		427	US	29 SEP	14 OCT 62	
B-DELTA 1	SIGMA 7	433	US	3 OCT	3 OCT 62	H*
B-DELTA 2		434	US	3 OCT	4 OCT 62	
B-EPSILON 1		435	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		443	USSR	24 OCT	29 OCT 62	
B-IOTA 2	- 24		USSR	24 OCT	SEE NOTE H*	H*
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		455	USSR	4 NOV	25 DEC 62	
B-XI 5		459	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		461	US	24 NOV	13 DEC 62	
B-SIGMA 1		460	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		502	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 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 005C		535	US	19 FEB	29 JUN 69	

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NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES	
1963 LAUNCHES (CNT.)						
EXPLORER 17	006A	USSR	21 MAR	29 MAR 63		
	006B	USSR	21 MAR	9 APR 63		
	007A	US	1 APR	26 APR 63		
	008A	USSR	2 APR	3 APR 63		
	009A	US	3 APR	24 NOV 66		
	009B	US	3 APR	24 NOV 63		
	010A	USSR	13 APR	29 AUG 63		
	010B	USSR	13 APR	6 JUL 63		
	011A	USSR	22 APR	27 APR 63		
	011B	USSR	22 APR	1 MAY 63		
	012A	USSR	22 APR	8 MAY 63		
	012B	USSR	22 APR	20 MAY 63		
	014AF	US	9 MAY	12 APR 77		
	014AG	US	9 MAY	19 NOV 74		
	014AM	US	9 MAY	3 JAN 77		
	014AP	US	9 MAY	25 FEB 71		
	014AW	US	9 MAY	7 JUN 73		
	014AX	US	9 MAY	18 FEB 68		
	014AY	US	9 MAY	21 MAY 68		
	014BF	US	9 MAY	28 MAY 70		
	014BK	US	9 MAY	30 OCT 76		
	014BM	US	9 MAY	4 APR 77		
	014BS	US	9 MAY	30 MAY 73		
	014BU	US	9 MAY	2 NOV 69		
	014BV	US	9 MAY	30 OCT 76		
	014BW	US	9 MAY	12 APR 77		
	014BY	US	9 MAY	8 AUG 69		
	014BZ	US	9 MAY	30 OCT 76		
	014CA	US	9 MAY	17 JUN 69		
	014CC	US	9 MAY	4 JUL 69		
	014CE	US	9 MAY	1 AUG 69		
	014CK	US	9 MAY	3 FEB 70		
	014CP	US	9 MAY	23 JAN 77		
014CC	US	9 MAY	3 JAN 77			
014CR	US	9 MAY	25 JAN 75			
014CS	US	9 MAY	5 DEC 76			
014CT	US	9 MAY	19 FEB 75			
014CV	US	9 MAY	26 APR 72			
014CZ	US	9 MAY	20 AUG 74			
014DC	US	9 MAY	30 OCT 76			
014DD	US	9 MAY	21 NOV 73			
FAITH 7	015A	US	15 MAY	16 MAY 63	Fx	
	015B	US	15 MAY	16 MAY 63		
	016A	US	18 MAY	27 MAY 63		
	017A	US	22 MAY	2 JUN 65		
	017B	USSR	22 MAY	26 AUG 63		
	017C	USSR	22 MAY	12 MAY 65		
	017D	USSR	22 MAY	30 AUG 63		
	017E	USSR	22 MAY	25 JUL 63		
	017F	USSR	22 MAY	30 SEP 63		
	017G	USSR	22 MAY	2 APR 64		
VOSTOK 5	018A	USSR	24 MAY	2 JUN 63		
	018B	USSR	24 MAY	8 JUN 63		
	019A	US	12 JUN	11 JUL 63		
	020A	USSR	14 JUN	19 JUN 63	Fx	
	020B	USSR	14 JUN	16 JUN 63		
	021A	US	15 JUN	7 AUG 63		
	LOFTI 2A SOLAR RADIATION	021B	US	15 JUN	18 JUL 63	
		021C	US	15 JUN	1 AUG 63	
		021D	US	15 JUN	30 JUL 63	
		021E	US	15 JUN	27 JUL 63	
021F		US	15 JUN	5 JUL 63		
VOSTOK 6	021G	US	15 JUN	3 JUL 63		
	022D	US	16 JUN	1 MAR 71		
	023A	USSR	16 JUN	19 JUN 63		
	023B	USSR	16 JUN	18 JUN 63		

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1963 LAUNCHES (CONT.)						
1963 02EA		609	US	27 JUN	26 JUL 63	
1963 027A		613	US	29 JUN	26 OCT 63	
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	20 AUG	7 NOV 63	
1963 035B		638	US	20 AUG	28-29 SEP 63	
1963 035C		639	US	20 AUG	2 SEP 63	
1963 035D		640	US	20 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	9 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 040A		673	USSR	18 OCT	28-29 OCT 63	
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 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	DEC 65	
1963 047P		6158	US	27 NOV	22 NOV 73	
1963 048A		695	US	27 NOV	15 DEC 63	
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	10 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 053F		725	US	19 DEC	23 DEC 74	
1963 055A		718	US	21 DEC	3 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	
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	

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INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964 LAUNCHES (CONT.)						
1964 009B		756	US	25 FEB	25 FEB 64	
1964 010A	COSMOS 25	757	USSR	27 FEB	21 NOV 64	
1964 010B		758	USSR	27 FEB	13 JUN 64	
1964 010C		762	USSR	27 FEB	4 MAR 64	
1964 010D		763	USSR	27 FEB	23 APR 64	
1964 011A		759	US	28 FEB	17 FEB 69	
1964 011B		760	US	28 FEB	17 AUG 65	
1964 011C		761	US	28 FEB	21 SEP 65	
1964 011D		2663	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	29 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	29 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	US/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	5-7 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	29 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	26 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 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	
1964 030A		811	US	13 JUN	2 JUN 65	
1964 030B		820	US	13 JUN	7 AUG 64	
1964 032A		814	US	14 JUN	16 JUL 64	
1964 032B		821	US	14 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	

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INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964 LAUNCHES (CONT.)						
1964 037A		828	US	10 JUL	6 AUG 64	
1964 038E		829	USSR	10 JUL	20 FEB 74	
1964 038F		830	USSR	10 JUL	20 NOV 72	
1964 039A	COSMOS 35	833	USSR	15 JUL	23 JUL 64	
1964 039B		834	USSR	15 JUL	1 AUG 64	
1964 039C		836	USSR	15 JUL	31 JUL 64	
1964 039D		839	USSR	15 JUL	25 JUL 64	
1964 041A	RANGER 7	842	US	28 JUL	31 JUL 64	
1964 042A	COSMOS 36	844	USSR	30 JUL	28 FEB 65	G*
1964 042B		845	USSR	30 JUL	29 NOV 64	
1964 043A		846	US	5 AUG 31	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 045C		852	US	14 AUG	16 AUG 64	
1964 046A	COSMOS 38	853	USSR	18 AUG	3 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		862	USSR	22 AUG	15 SEP 64	
1964 049B		863	USSR	22 AUG	29 SEP 64	
1964 049C		865	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	
1964 052A	NIMBUS 1	872	US	28 AUG	15 MAY 74	
1964 052B		878	US	28 AUG	13 AUG 74	
1964 055A		880	USSR	13 SEP	13 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	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	VOSKHOOD 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 066A	COSMOS 48	908	USSR	14 OCT	20 OCT 64	
1964 066B		909	USSR	14 OCT	28 OCT 64	
1964 066C		910	USSR	14 OCT	18 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	27 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	26 OCT	5 NOV 64	
1964 070B	070DA		USSR	28 OCT	SFE NOTE J*	J

INTER- NATIONAL DESIGNATION	NAME	CECAYFD OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964 LAUNCHES (CONT.)						
1964 071A		921	US	2 NOV	28 NOV 64	
1964 072A		922	US	4 NOV	5 NOV 60	
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 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 076F		936	US	21 NOV	3 APR 68	
1964 076H		939	US	21 NOV	30 APR 68	
1964 076L		1411	US	21 NOV	5 MAR 68	
1964 076M		4079	US	21 NOV	21 OCT 71	
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	5 DECC	14 NOV 65	
1964 080B		948	USSR	5 DECC	11 MAY 65	
1964 080C		950	USSR	5 DECC	29 DEC 64	
1964 080D		952	USSR	5 DECC	1 JAN 65	
1964 080E		954	USSR	5 DECC	1 JAN 65	
1964 080F		955	USSR	5 DECC	1 JAN 65	
1964 081A		949	US	10 DEC	13 DEC 64	
1964 082A	CENTAUR 4	951	US	11 DEC	12 DEC 64	
1964 084A	SAN MARCO 1	957	ITALY	15 DEC	13 SEP 65	
1964 084B		958	US	15 DEC	5-7 FEB 65	
1964 084C		962	US	15 DEC	21 JAN 65	
1964 085A		961	US	10 DEC	14 JAN 65	
1964 086B		9820	US	21 DEC	1 FEB 72	
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 003B		974	US	10 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 010A	RANGER 8	1086	US	17 FEB	20 FEB 65	
1965 011A	COSMOS 54	1085	USSR	21 FEB	15 SEP 68	G*
1965 011B	COSMOS 55	1090	USSR	21 FEB	2 FEB 63	
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	9 APR 66	
1965 012A	COSMOS 57	1093	USSR	22 FEB	22 FEB 65	
1965 012B	012FZ		USSR	22 FEB	SFE NOTE	K*
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		1267	USSR	7 MAR	10-11 MAR 65	
1965 017A		1303	US	11 MAR	14 JUN 65	
1965 017B	EGRS 2	1266	US	11 MAR	26 FEB 68	
1965 017C		1228	US	11 MAR	4 SEP 67	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
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		1322	US	11 MAR	23 DEC 65	
1965 018A	COSMCS 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	COSMGS 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	
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	
1965 020P		1344	USSR	15 MAR	14 NOV 69	
1965 020R		1346	USSR	15 MAR	18 MAY 75	
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 020AG		1375	USSR	15 MAR	14 OCT 65	
1965 020AJ		1397	USSR	15 MAR	6 APR 68	
1965 020AK		1398	USSR	15 MAR	23 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	8 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 020BA		1476	USSR	15 MAR	21 SEP 67	
1965 020BG		1482	USSR	15 MAR	9 JAN 66	
1965 020BT		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 68	
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	

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NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)					
1965 020CE	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 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 020DM	1564	USSR	15 MAR	28 FEB 67	
1965 020DP	1567	USSR	15 MAR	12 SEP 74	
1965 020DO	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 020EE	1601	USSR	15 MAR	17 JAN 67	
1965 020EE	1635	USSR	15 MAR	20 OCT 67	
1965 020EF	2203	USSR	15 MAR	20 APR 67	
1965 020EG	2204	USSR	15 MAR	17 OCT 66	
1965 020EJ	2339	USSR	15 MAR	12 NOV 66	
1965 020EK	2367	USSR	15 MAR	19 OCT 66	
1965 020EL	2637	USSR	15 MAR	19 FEB 67	
1965 020FP	3163	USSR	15 MAR	16 JUL 68	
1965 020FA	5733	USSR	15 MAR	11 MAR 72	
1965 020FC	5983	USSR	15 MAR	9 AUG 72	
1965 021B	1288	US	18 MAR	5 OCT 65	
1965 021D	1290	US	18 MAR	1 OCT 65	
1965 021E	1376	US	18 MAR	1 JAN 70	
1965 022A	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	1294	US	21 MAR	24 MAR 65	
1965 024A	1301	US	23 MAR	23 MAR 65	
1965 024B	1302	US	23 MAR	24 MAR 65	
1965 025A	1305	USSR	23 MAR	2 APR 65	
1965 025B	1306	USSR	23 MAR	4 APR 65	
1965 025C	1308	USSR	23 MAR	26 APR 65	
1965 026A	1307	US	25 MAR	4-5 APR 65	

1965 020CE
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1965 020CE
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 1965 020EK
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 1965 020FA
 1965 020FC
 1965 021B
 1965 021D
 1965 021E
 1965 022A
 1965 022B
 1965 022C
 1965 022C
 1965 022D
 1965 023A
 1965 024A
 1965 024B
 1965 025A
 1965 025B
 1965 025C
 1965 026A

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DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	DECAY	NOTES	
1965 LAUNCHES (CCNT.)								
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 030B		1325	USSR	23 APR		20 JUL 65		
1965 030C		1326	USSR	23 APR		2 JUL 65		
1965 031A		1327	US	28 APR		3 MAY 65		
1965 031B		1329	US	28 APR		31 OCT 65		
1965 031C		1331	US	28 APR		30 APR 65		
1965 031D		1332	US	28 APR		30 APR 65		
1965 031E		1333	US	28 APR	4-4	8 MAY 65		
1965 031F		1334	US	28 APR		18 MAR 66		
1965 031G		1357	US	26 APR		26 MAY 65		
1965 033A		1330	US	29 APR		8 JUN 65		
1965 033B		1367	US	29 APR		15 MAY 65		
1965 035A	COSMOS 66	1362	USSR	7 MAY		24 MAY 65		
1965 035B		1363	USSR	7 MAY		9 MAY 65		
1965 035C		1364	USSR	7 MAY		9 MAY 65		
1965 035D		1365	USSR	7 MAY		12 MAY 65		
1965 036A	LUNIK 5	1366	USSR	9 MAY		10 MAY 65		A *
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 038D		1380	US	20 MAY		2 MAY 66		
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 65		
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 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 65		
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 053C	COSMOS 73	1443	USSR	16 JUL		20 MAR 74		
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		
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		

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NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CCNT.)					
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 059A	1464	USSR	23 JUL	16 MAR 66	
1965 059B	1465	USSR	23 JUL	4 DEC 65	
1965 060A	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	1469	USSR	3 AUG	11 AUG 65	
1965 061B	1470	USSR	3 AUG	8 AUG 65	
1965 062A	1471	US	4 AUG	7 AUG 65	
1965 062B	1472	US	3 AUG	17 JUN 69	
1965 062C	1474	US	3 AUG	6 AUG 65	
1965 066A	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	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 06ED	1519	US	21 AUG	26 AUG 65	
1965 069A	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	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 64	
1965 075A	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	
1965 077A	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	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	2775	USSR	13 OCT	18 JAN 67	
1965 082A	1624	US	15 OCT	27 JUL 72	
1965 082K	1648	US	15 OCT	2 MAR 68	
1965 082S	1655	US	15 OCT	19 APR 71	
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 082AG	1669	US	15 OCT	15 AUG 71	
1965 082AM	1674	US	15 OCT	18 MAR 69	
1965 082AW	1683	US	15 OCT	11 JUL 66	
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 082BM	1698	US	15 OCT	9 MAY 72	
1965 082BN	1699	US	15 OCT	21 NOV 66	

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NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)					
1965 082BF	1700	US	15 OCT	3 APR 70	
1965 082BR	1710	US	15 OCT	1 MAR 73	
1965 082BS	1711	US	15 OCT	20 MAR 71	
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 082CE	1720	US	15 OCT	4 MAR 67	
1965 082CF	1724	US	15 OCT	26 APR 68	
1965 082CH	1750	US	15 OCT	8 FEB 70	
1965 082CR	1754	US	15 OCT	4 AUG 68	
1965 082CV	1758	US	15 OCT	13 JAN 73	
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 082DF	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 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 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 082EL	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	
1965 082ER	1858	US	15 OCT	3 JAN 67	
1965 082ET	1860	US	15 OCT	19 APR 69	
1965 082EU	1875	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 082FA	1885	US	15 OCT	30 JAN 70	
1965 082FB	1886	US	15 OCT	1 MAR 68	
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 082FO	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 082GF	1921	US	15 OCT	24 FEB 67	
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	

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NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CCNT.)					
1965 082GN	1928	US	15 OCT	28 FEB 68	
1965 082GO	1930	US	15 OCT	12 SEP 66	
1965 082GF	1956	US	15 OCT	12 AUG 68	
1965 082HA	1968	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	
1965 082HE	1972	US	15 OCT	2 FEB 67	
1965 082HM	1979	US	15 OCT	7 OCT 67	
1965 082HN	1980	US	15 OCT	25 MAY 69	
1965 082HO	1984	US	15 OCT	29 MAR 74	
1965 082HR	1985	US	15 OCT	18 AUG 68	
1965 082HT	1987	US	15 OCT	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 082JA	1999	US	15 OCT	20 APR 67	
1965 082JB	2041	US	15 OCT	16 MAR 73	
1965 082JD	2043	US	15 OCT	1 SEP 68	
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 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 66	
1965 082JR	2055	US	15 OCT	28 JUN 66	
1965 082JT	2060	US	15 OCT	23 SEP 66	
1965 082JU	2081	US	15 OCT	8 NOV 66	
1965 082JY	2100	US	15 OCT	13 DEC 68	
1965 082KA	2102	US	15 OCT	15 APR 69	
1965 082KB	2103	US	15 OCT	27 NOV 67	
1965 082KC	2156	US	15 OCT	27 OCT 66	
1965 082KD	2133	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	
1965 082KU	2792	US	15 OCT	26 DEC 71	
1965 082KZ	2898	US	15 OCT	27 JUN 71	
1965 082LF	2992	US	15 OCT	29 MAR 69	
1965 082LH	3040	US	15 OCT	29 MAR 71	
1965 082LK	3049	US	15 OCT	6 JAN 68	
1965 082LP	3149	US	15 OCT	3 DEC 70	
1965 082LO	3225	US	15 OCT	17 MAR 69	
1965 082LX	3360	US	15 OCT	11 JUN 72	
1965 082MF	3368	US	15 OCT	1 MAR 70	
1965 082MX	3355	US	15 OCT	12 APR 69	
1965 082NB	3401	US	15 OCT	1 MAR 72	
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 082NJ	3410	US	15 OCT	5 OCT 73	
1965 082NL	3412	US	15 OCT	14 MAY 70	
1965 082NM	3413	US	15 OCT	8 MAR 69	
1965 082NP	3421	US	15 OCT	13 JAN 69	
1965 082NO	3422	US	15 OCT	24 SEP 69	
1965 082NZ	3436	US	15 OCT	8 MAR 69	
1965 082PB	3438	US	15 OCT	13 OCT 71	
1965 082PF	3442	US	15 OCT	12 JUN 69	
1965 082PN	3453	US	15 OCT	29 APR 69	
1965 082PW	3465	US	15 OCT	19 SEP 72	

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1965 LAUNCHES (CONT.)						
1965 0820A		3475	US	15 OCT	3 MAY 73	
1965 0820B		3476	US	15 OCT	19 APR 72	
1965 0820C		3477	US	15 OCT	7 APR 71	
1965 0820E		3480	US	15 OCT	14 MAR 69	
1965 0820G		3482	US	15 OCT	5 MAR 75	
1965 0820K		3489	US	15 OCT	3 JUN 70	
1965 0820P		3493	US	15 OCT	21 JAN 69	
1965 0820R		3495	US	15 OCT	21 SEP 69	
1965 0820W		3500	US	15 OCT	14 JUL 70	
1965 0820X		3501	US	15 OCT	23 SEP 71	
1965 0820A		3719	US	15 OCT	26 MAR 71	
1965 0820C		3721	US	15 OCT	27 JUL 72	
1965 0820D		3722	US	15 OCT	15 MAY 70	
1965 0820F		3724	US	15 OCT	6 DEC 69	
1965 0820G		3725	US	15 OCT	11 NOV 69	
1965 0820H		3726	US	15 OCT	6 APR 69	
1965 0820J		3727	US	15 OCT	22 JUN 69	
1965 0820K		3728	US	15 OCT	1 FEB 70	
1965 0820L		3729	US	15 OCT	26 JUN 69	
1965 0820M		3731	US	15 OCT	16 AUG 71	
1965 0820N		3734	US	15 OCT	2 DEC 69	
1965 0820R		3735	US	15 OCT	23 SEP 69	
1965 0820S		3735	US	15 OCT	25 FEB 77	
1965 0820X		3839	US	15 OCT	27 DEC 70	
1965 0820B		3929	US	15 OCT	22 APR 70	
1965 0820D		3936	US	15 OCT	22 APR 70	
1965 0820F		3980	US	15 OCT	24 APR 70	
1965 0820G		3981	US	15 OCT	19 FEB 70	
1965 0820H		3982	US	15 OCT	25 OCT 69	
1965 0820J		3996	US	15 OCT	26 DEC 69	
1965 0820K		3998	US	15 OCT	6 FEB 71	
1965 0820M		4004	US	15 OCT	5 JAN 70	
1965 0820Q		4023	US	15 OCT	2 FEB 70	
1965 0820R		4025	US	15 OCT	16 OCT 69	
1965 0820S		4032	US	15 OCT	30 DEC 69	
1965 0820T		4033	US	15 OCT	3 SEP 70	
1965 0820W		5056	US	15 OCT	3 MAY 71	
1965 0820A		5112	US	24 JUN	2 APR 72	
1965 0820B		5344	US	15 OCT	25 MAR 73	
1965 0820H		5567	US	15 OCT	21 NOV 72	
1965 0820M		5572	US	15 OCT	24 AUG 75	
1965 0820P		5719	US	15 OCT	30 JUL 75	
1965 0820S		5768	US	15 OCT	1 MAR 72	
1965 0820T		5844	US	15 OCT	13 MAY 74	
1965 0820X		5856	US	15 OCT	23 OCT 72	
1965 0820Z		5868	US	15 OCT	11 MAY 77	
1965 0820A		5970	US	15 OCT	26 JUL 73	
1965 0820B		5982	US	15 OCT	31 JAN 73	
1965 0820C		6041	US	15 OCT	4 JUL 72	
1965 0820E		6042	US	15 OCT	28 AUG 73	
1965 0820G		6141	US	15 OCT	23 FEB 73	
1965 0820H		6183	US	15 OCT	15 SEP 74	
1965 083A	COSMOS 52	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 53	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		2096	USSR	19 OCT	6 JUL 68	
1965 085A	COSMOS 54	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	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 087D		1704	USSR	2 NOV	8 NOV 65	
1965 087E		1705	USSR	2 NOV	8 NOV 65	
1965 088A	COSMOS 55	1706	USSR	4 NOV	18 JAN 66	
1965 088B		088Z	USSR	4 NOV	SEE NOTE L*	L*
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	M*
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 56	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 57	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		1538	FRANCE	26 NOV	25 MAR 67	
1965 097A	COSMOS 58	1780	USSR	27 NOV	5 DEC 65	
1965 097B		1781	USSR	27 NOV	23 JAN 66	
1965 097C		1803	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 102A		1816	US	9 DEC	26 DEC 65	
1965 102B		1838	US	9 DEC	15 DEC 65	
1965 103A	COSMOS 59	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	1863	US	21 DEC	17 AUG 75	
1965 108D		LES 3	1941	US	21 DEC	6 APR 68
1965 108E		3699	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 106K		5980	US	21 DEC	12 APR 76	
1965 110A		1864	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		112Q	USSR	28 DEC	SEE NOTE N*	N*
1966 LAUNCHES						
1966 000A		2428	UNKN	UNKN	18 SEP 77	D*
1966 000D		2632	UNKN	UNKN	30 DEC 66	D*
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	COSMOS 105	1940	US	19 JAN	23 JAN 66	
1966 003A		1945	USSR	22 JAN	30 JAN 66	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 003B		1946	USSR	22 JAN	10 FEB 66	
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 006A	LUNA 9	1954	USSR	31 JAN	3 FEB 66	Q*
1966 006B		1955	USSR	31 JAN	2 FEB 66	
1966 006C		1966	USSR	31 JAN	31 JAN 66	
1966 007A		1968	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	- 012AR		US	15 FEB	SEE NOTE R*	F*
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		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	210E	US	16 MAR	17 MAR 66	F*
1966 020B		210E	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 025F		4007	US	30 MAR	12 APR 77	
1966 026C		2162	US	31 MAR	11 FEB 67	
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	
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	25 APR 66	
1966 030A	SURVEYOR MODULE	2139	US	8 APR	5 MAY 66	
1966 030B		2143	US	8 APR	17 APR 66	
1966 032A		2146	US	19 APR	26 APR 66	
1966 032B		2148	US	19 APR	22 APR 66	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SCURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
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 035A	MOLNIYA 1	2151	USSR	25 APR	11 JUN 73	
1966 035R		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	COSMCS 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 037H		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	COSMCS 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	SUPVEYOR 1	2185	US	30 MAY	2 JUN 66	S*
1966 046A	ATDA	2186	US	1 JUN	11 JUN 66	T*
1966 046B	046BF		US	1 JUN		T*
1966 047A	GE MIN I 9	2191	US	3 JUN	6 JUN 66	
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	EGRS 6	2205	US	9 JUN	6 JUL 67	
1966 051C	ERS 16	2202	US	9 JUN	12 MAR 67	
1966 054A	COSMCS 121	2210	USSR	17 JUN	23 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	17 JUN	20 JUN 66	
1966 055B		2261	US	21 JUN	14 JUL 66	
1966 056J		8075	US	21 JUN	4 JUL 66	
1966 056L		8077	US	24 JUN	19 FEB 77	
1966 056M		8078	US	24 JUN	1 APR 77	
1966 056P		8080	US	24 JUN	19 FEB 77	
1966 056Q		8081	US	24 JUN	21 JAN 77	
1966 056R		9452	US	24 JUN	22 MAY 77	
1966 056T		9454	US	24 JUN	8 MAR 77	
1966 056U		9455	US	24 JUN	8 FEB 77	
1966 056V		9456	US	24 JUN	3 MAR 77	
1966 056AB		9456	US	24 JUN	14 FEB 77	
1966 056AG		9462	US	24 JUN	9 FEB 77	
1966 056AK		9467	US	24 JUN	18 APR 77	
1966 056AL		9739	US	24 JUN	20 JAN 77	
1966 056AM		9740	US	24 JUN	20 JAN 77	
1966 056AN		9741	US	24 JUN	20 JAN 77	
1966 056AP		9742	US	24 JUN	20 JAN 77	
1966 056AQ		9743	US	24 JUN	20 JAN 77	
1966 056AR		9744	US	24 JUN	20 JAN 77	
1966 056AS		9745	US	24 JUN	20 JAN 77	
1966 056AT		9746	US	24 JUN	20 JAN 77	
1966 056AU		9747	US	24 JUN	20 JAN 77	
1966 056AV		9748	US	24 JUN	20 JAN 77	
		9749	US	24 JUN	20 JAN 77	

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)							
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	
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	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	059AL		US	5 JUL	SFE NOTE U*	U*
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	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		2363	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	

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NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CCNT.)					
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	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	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	
1966 074C	2400	US	16 AUG	13 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 078B	2407	USSR	24 AUG	25 AUG 66	
1966 078C	2408	USSR	24 AUG	26 AUG 66	
1966 079A	2409	USSR	27 AUG	4 SEP 66	
1966 079B	2410	USSR	27 AUG	7 SEP 66	
1966 080A	2414	US	12 SEP	30 DEC 66	
1966 081A	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	2421	US	16 SEP	18 SEP 66	
1966 083D	2424	US	16 SEP	30 OCT 66	
1966 084A	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 086A	2437	USSR	17 SEP	11 NOV 66	
1966 088B		USSR	17 SEP	SEE NOTE	V*
1966 090A	2489	US	12 OCT	20 OCT 66	
1966 090B	2490	US	12 OCT	21 OCT 66	
1966 090C	2494	US	12 OCT	15 OCT 66	
1966 090D	2495	US	12 OCT	16 OCT 66	
1966 091A	2491	USSR	14 OCT	21 OCT 66	
1966 091B	2452	USSR	14 OCT	23 OCT 66	
1966 092A	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	2523	USSR	20 OCT	5 JUN 59	
1966 093A	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	2512	US	26 OCT	6 NOV 66	
1966 096B	2515	US	26 OCT	9 FEB 67	
1966 097A	2517	US	28 OCT	29 SEP 71	
1966 097C	2519	US	28 OCT	28 JAN 70	
1966 097D	2513	US	28 OCT	20 SEP 67	
1966 098A	2514	US	28 OCT	20 AUG 76	
1966 098B	2523	US	2 NOV	10 NOV 66	
1966 098C	2525	US	2 NOV	16 NOV 66	
1966 099A	2524	US	2 NOV	9 JAN 67	
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	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		USSR	2 NOV	SEE NOTE	W*
1966 102A	2537	US	8 NOV	29 NOV 66	
1966 103A	2565	US	11 NOV	23 DEC 66	
1966 104A	2566	US	11 NOV	15 NOV 66	F*
1966 104B		US	11 NOV	SEE NOTE	X*

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
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	Q*
1966 116H		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	
1967 001C		2641	US	11 JAN	24 FEB 67	
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 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 001S		5987	US	11 JAN	26 JUN 73	
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	
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 011J		2690	FRANCE	8 FEB	8 MAY 68	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967 LAUNCHES (CONT.)						
1967 011K		2691	FRANCE	8 FEB	29 OCT 67	
1967 012A	COSMCS 141	2670	USSR	8 FEB	16 FEB 67	
1967 012B		2672	USSR	8 FEB	16 FEB 67	
1967 013A	COSMCS 142	2678	USSR	14 FEB	6 JUL 67	
1967 013B		2679	USSR	14 FEB	15 JUN 67	
1967 014D		2681	FRANCE	15 FEB	15 SEP 68	
1967 015A		2686	US	22 FEB	11 MAR 67	
1967 016A		2687	US	24 FEB	6 MAR 67	
1967 017A	COSMCS 143	2693	USSR	27 FEB	7 MAR 67	
1967 017B		2694	USSR	27 FEB	9 MAR 67	
1967 018C		3095	USSR	28 FEB	9 APR 71	
1967 019A	COSMOS 145	2697	USSR	3 MAR	8 MAR 68	
1967 019B		2698	USSR	3 MAR	1 DEC 67	
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		2818	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	024T		USSR	21 MAR		
1967 025A	COSMOS 150	2715	USSR	22 MAR	SEE NOTE Y*	Y*
1967 025B		2718	USSR	22 MAR	30 MAR 67	
1967 026B		2719	US	23 MAR	7 JUL 67	
1967 027C		2776	USSR	24 MAR	29 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	COSMCS 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	
1967 035A	SURVEYOR 3	2756	US	17 APR	20 APR 67	S*
1967 037A	SOYUZ 1	2759	USSR	23 APR	24 APR 67	7*
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	16 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 047A	COSMCS 160	2806	USSR	17 MAY	18 MAY 67	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967 LAUNCHES (CONT.)						
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	EXFLCREP 34	2817	US	24 MAY	3 MAY 69	
1967 052A	MOLNIYA 1	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		2630	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	VENEPA 4	2840	USSR	12 JUN	18 OCT 67	M*
1967 058B		2841	USSR	12 JUN	13 JUN 67	
1967 058C		2839	USSR	12 JUN	13 JUN 67	
1967 058D		2644	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		2885	US	19 JUL	31 AUG 67	
1967 071A		2890	US	25 JUL	5 JUN 68	
1967 071B		2891	US	25 JUL	21 AUG 67	
1967 071C		2892	US	25 JUL	16 OCT 67	
1967 071D		2976	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 072E		2918	US	27 JUL	2 NOV 67	
1967 073A	OGO 4	2895	US	28 JUL	16 AUG 72	
1967 073B		2896	US	29 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	

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1967 LAUNCHES (CONT.)						
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	
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	USSP	24 AUG	17 DEC 67	
1967 081B		2922	USSP	24 AUG	30 OCT 67	
1967 082A	COSMOS 174	2925	USSR	31 AUG	30 DEC 68	
1967 082B		2926	USSP	31 AUG	19 SEP 67	
1967 082C		2927	USSR	31 AUG	15 SEP 67	
1967 082D		2928	USSP	31 AUG	5 SEP 67	
1967 083A	BIO-SATELLITE 2	2925	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	
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	USSP	12 SEP	2 APR 68	
1967 086H		2960	USSR	12 SEP	3 OCT 67	
1967 086J		2961	USSR	12 SEP	5 OCT 67	
1967 086K		2979	USSR	12 SEP	13 JAN 68	
1967 086L		2963	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	USSP	16 SEP	19 SEP 67	
1967 089A	COSMOS 178	2961	USSR	19 SEP	19 SEP 67	
1967 039B		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	USSP	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	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	13 OCT 67	
1967 097B		2982	USSR	11 OCT	19 OCT 67	
1967 098A	COSMOS 182	2985	USSR	16 OCT	24 OCT 67	
1967 098B		2986	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 101A	MOLNIYA 1	3008	USSR	22 OCT	31 DEC 69	
1967 101B		3005	USSP	22 OCT	7 NOV 67	
1967 101C		3006	USSR	22 OCT	3 NOV 67	
1967 101D		3007	USSR	22 OCT	29 OCT 67	

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1967 LAUNCHES (CCNT.)						
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	COSMCS 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	29 OCT 67	
1967 107A	COSMOS 188	3020	USSR	30 OCT	2 NOV 67	
1967 107B		3022	USSR	30 OCT	2 NOV 67	
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	G*
1967 113A	APOLLO 4	3032	US	9 NOV	9 NOV 67	R*
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	COSMCS 193	3052	USSR	25 NOV	3 DEC 67	
1967 117B		3053	USSR	25 NOV	1 DEC 68	
1967 118A	WRESAT	3054	AUSTRAL	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	
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	TATS 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	COSMCS 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 126E	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 126F		3085	USSR	26 DEC	18 JAN 68	
1967 126G		3086	USSR	26 DEC	26 JAN 68	
1967 126H		3087	USSR	26 DEC	3 JAN 68	
1967 126I		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	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES						
1968 001A	SURVEYOR 7	3091	US	7 JAN	10 JAN 68	
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	10 JAN	24 FEB 73	
1968 006B		3102	USSR	19 JAN	4 FEB 72	
1968 006D		3104	USSR	19 JAN	6 APR 68	
1968 006E		3109	USSP	19 JAN	11 APR 68	
1968 006F		3110	USSR	19 JAN	16 JUN 68	
1968 006H		3111	USSR	19 JAN	15 APR 68	
1968 007A		3112	USSR	19 JAN	16 JUN 68	
1968 007B	LM-1/ASCENT	3106	US	22 JAN	24 JAN 68	
1968 007C	LM-1/DESCENT	3107	US	22 JAN	12 FEB 68	
1968 008A		3108	US	22 JAN	23 JAN 68	
1968 008B		3113	US	24 JAN	27 FEB 68	
1968 008C		3114	US	24 JAN	4 MAR 70	
1968 009A	COSMOS 201	3120	US	24 JAN	12 FEB 68	
1968 009B		3118	USSR	6 FEB	14 FEB 68	
1968 010A	COSMOS 202	3119	USSR	6 FEB	13 FEB 68	
1968 010B		3128	USSR	20 FEB	24 MAR 68	
1968 013B		3130	USSR	20 FEB	4 MAR 68	
1968 013C		3135	USSR	20 MAR	7 MAR 68	
1968 013D		3136	USSR	20 MAR	7 MAR 68	
1968 015A	COSMOS 204	3144	USSR	5 MAR	5 MAR 68	
1968 015B		3139	USSP	5 MAR	2 MAR 69	
1968 016A	COSMOS 205	3143	USSR	5 MAR	13 OCT 68	
1968 016B		3140	USSR	5 MAR	13 MAR 68	
1968 017C		3142	USSR	5 MAR	9 MAR 68	
1968 017E		3215	US	5 MAR	11 APR 69	
1968 018A		3743	US	5 MAR	25 OCT 77	
1968 020A		3148	US	13 MAR	24 MAR 68	
1968 020B		3152	US	14 MAR	10 APR 68	
1968 021A	COSMOS 207	3153	US	14 MAR	3 JAN 70	
1968 021B		3154	USSR	16 MAR	24 MAR 68	
1968 022A	COSMOS 208	3155	USSR	16 MAR	22 MAR 68	
1968 022B		3156	USSR	21 MAR	2 APR 68	
1968 022C		3157	USSP	21 MAR	25 MAR 68	
1968 023B		3167	USSR	21 MAR	6 APR 68	
1968 023C		3160	USSR	22 MAR	29 MAR 68	
1968 023D		3161	USSR	22 MAR	25 MAR 68	
1968 023E		3162	USSR	22 MAR	10 APR 68	
1968 024A	COSMOS 210	3165	USSR	22 MAR	4 MAY 68	
1968 024B		3168	USSP	3 APR	11 APR 68	
1968 024C		3169	USSR	3 APR	12 APR 68	
1968 025A	APOLLO 6	3172	USSR	3 APR	5 APR 68	
1968 025B		3170	US	4 APR	4 APR 68	
1968 027B		3179	US	4 APR	SEE NOTE	AA*
1968 027C		3180	USSR	7 APR	9 APR 68	
1968 028A	COSMOS 211	3181	USSR	7 APR	9 APR 68	
1968 028B		3182	USSR	9 APR	10 NOV 68	
1968 029A	COSMOS 212	3183	USSR	9 APR	17 AUG 68	
1968 029B		3184	USSR	14 APR	19 APR 68	
1968 030A	COSMOS 213	3193	USSR	14 APR	16 APR 68	
1968 030B		3194	USSR	15 APR	20 APR 68	
1968 031A		3199	USSP	15 APR	19 APR 68	
1968 032A	COSMOS 214	3203	US	17 APR	29 APR 68	
1968 032B		3204	USSR	18 APR	26 APR 68	
1968 033A	COSMOS 215	3205	USSR	18 APR	29 APR 68	
1968 033B		3206	USSP	18 APR	30 JUN 68	
1968 034A	COSMOS 216	3207	USSR	18 APR	19 MAY 68	
1968 034B		3208	USSR	20 APR	28 APR 68	
1968 035A	MOLNIYA 1	3209	USSR	20 APR	23 APR 68	
1968 035B		3211	USSR	21 APR	29 JAN 74	
1968 035C		3210	USSP	21 APR	11 MAY 68	
			USSR	21 APR	29 MAY 68	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CGNT.)						
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		3218	USSR	25 APR	25 APR 68	
1968 037C		3219	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		3222	USSR	26 APR	3 JUN 68	
1968 039A		3223	US	1 MAY	15 MAY 68	
1968 039B		3224	US	1 MAY	20 MAY 68	
1968 041A	IRIS	3225	USSR	17 MAY	8 MAY 71	
1968 041B		3226	US	17 MAY	31 MAR 70	
1968 041C		3227	US	17 MAY	4 NOV 68	
1968 043A	COSMCS 221	3228	USSR	24 MAY	31 AUG 69	
1968 043B		3229	USSR	24 MAY	13 APR 69	
1968 044A	COSMCS 222	3270	USSR	30 MAY	11 OCT 68	
1968 044B		3271	USSR	30 MAY	13 AUG 68	
1968 045A	COSMOS 223	3272	USSR	1 JUN	9 JUN 68	
1968 045B		3273	USSR	1 JUN	9 JUN 68	
1968 046A	COSMOS 224	3274	USSR	4 JUN	12 JUN 68	
1968 046B		3275	USSR	4 JUN	7 JUN 68	
1968 047A		3276	US	5 JUN	17 JUN 68	
1968 048A	COSMOS 225	3277	USSR	11 JUN	2 NOV 68	
1968 048B		3278	USSR	11 JUN	15 AUG 68	
1968 048C		3279	USSR	11 JUN	19 JUN 68	
1968 048D		3280	USSR	11 JUN	21 JUN 68	
1968 051A	COSMOS 227	3281	USSR	18 JUN	26 JUN 68	
1968 051B		3282	USSR	18 JUN	21 JUN 68	
1968 052A		3283	US	20 JUN	16 JUL 68	
1968 052B		3284	US	20 JUN	11 JAN 70	
1968 053A	COSMCS 228	3285	USSR	21 JUN	3 JUL 68	
1968 053B		3286	USSR	21 JUN	24 JUN 68	
1968 053C		3287	USSR	21 JUN	23 JUN 68	
1968 053D		3288	USSR	21 JUN	23 JUN 68	
1968 053E		3289	USSR	21 JUN	23 JUN 68	
1968 053F		3290	USSR	21 JUN	23 JUN 68	
1968 053G		3291	USSR	21 JUN	7 JUL 68	
1968 054A	COSMOS 229	3292	USSR	26 JUN	4 JUL 68	
1968 054B		3293	USSR	26 JUN	4 JUL 68	
1968 056A	COSMOS 230	3300	USSR	5 JUL	2 NOV 68	
1968 056B		3301	USSR	5 JUL	16 OCT 68	
1968 057A	MOLNIYA 1	3302	USSR	6 JUL	15 MAY 71	
1968 057B		3303	USSR	6 JUL	9 AUG 68	
1968 057C		3304	USSR	6 JUL	22 AUG 68	
1968 057D		3305	USSR	6 JUL	8 JUL 68	
1968 057E		3306	USSR	6 JUL	18 JUL 68	
1968 057F		3307	USSR	6 JUL	2 SEP 70	
1968 058A	COSMOS 231	3308	USSR	10 JUL	18 JUL 68	
1968 058B		3309	USSR	10 JUL	20 JUL 68	
1968 059A	OV1-15	3310	US	11 JUL	6 NOV 68	
1968 059B	OV1-16	3311	US	11 JUL	19 AUG 68	
1968 059C		3312	US	11 JUL	16 AUG 68	
1968 059D		3313	US	11 JUL	16 JUL 68	
1968 060A	COSMOS 232	3314	USSR	16 JUL	24 JUL 68	
1968 060B		3315	USSR	16 JUL	26 JUL 68	
1968 061A	COSMCS 233	3316	USSR	18 JUL	7 FEB 69	
1968 061B		3317	USSR	18 JUL	1 JAN 69	
1968 062A	COSMOS 234	3318	USSR	30 JUL	5 AUG 68	
1968 062B		3319	USSR	30 JUL	7 AUG 68	
1968 064A		3320	US	6 AUG	16 AUG 68	
1968 065A		3321	US	7 AUG	27 AUG 68	
1968 067A	COSMOS 235	3322	USSR	9 AUG	17 AUG 68	
1968 067B		3323	USSR	9 AUG	14 AUG 68	
1968 068A	ATS 4	3324	US	10 AUG	17 OCT 68	
1968 071A	COSMOS 237	3325	USSR	27 AUG	4 SEP 68	
1968 071B		3326	USSR	27 AUG	4 SEP 68	

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1968 LAUNCHES (CONT.)

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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	
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	
1968 077B		3399	USSR	16 SEP	22 SEP 68	
1968 078A		3402	US	18 SEP	8 OCT 68	
1968 078B		3409	US	18 SEP	28 SEP 68	
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		3422	USSR	23 SEP	12 OCT 68	
1968 081F		3422	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 68	
1968 084C		3479	US	3 OCT	12 APR 69	
1968 084D		3916	US	3 OCT	9 MAY 68	
1968 085A	MOLNIYA 1	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		3472	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	19 OCT 68	
1968 089A	APOLLO 7	3486	US	11 OCT	22 OCT 68	
1968 089B		3487	US	11 OCT	18 OCT 68	
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 091K		3521	USSR	20 OCT	6 APR 74	
1968 091U		3586	USSR	20 OCT	31 MAR 70	
1968 091W		3588	USSR	20 OCT	5 MAY 69	
1968 091AT		3682	USSR	20 OCT	14 DEC 77	
1968 091AK		3693	USSR	20 OCT	5 DEC 76	
1968 091AP		3702	USSR	20 OCT	5 DEC 76	
1968 091AO		3706	USSR	20 OCT	5 JUL 70	
1968 091AS		3754	USSR	20 OCT	21 MAY 75	
1968 091AN		3789	USSR	20 OCT	2 JUL 75	
1968 091BD		3796	USSR	20 OCT	23 JAN 77	
1968 091BF		3672	USSR	20 OCT	15 FEB 70	
1968 091BK		3876	USSR	20 OCT	15 JUN 75	
1968 091BM		3909	USSR	20 OCT	16 MAR 75	
1968 091BS		3934	USSR	20 OCT	24 AUG 77	
1968 091BX		4002	USSR	20 OCT	3 AUG 70	
1968 091BZ		4500	USSR	20 OCT	12 DEC 70	
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	

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1968 LAUNCHES (CONT.)						
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	COSMCS 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 097AG		3689	USSR	1 NOV	13 JUL 74	
1968 097AK		3696	USSR	1 NOV	10 MAR 70	
1968 097AM		3704	USSR	1 NOV	9 SEP 74	
1968 097AN		3711	USSR	1 NOV	22 APR 69	
1968 097AP		3712	USSR	1 NOV	26 FEB 73	
1968 097AS		3715	USSR	1 NOV	14 DEC 76	
1968 097BD		3815	USSR	1 NOV	4 OCT 69	
1968 097BT		3946	USSR	1 NOV	27 MAY 69	
1968 097BV		3975	USSR	1 NOV	2 JUL 71	
1968 097BX		4010	USSR	1 NOV	10 SEP 69	
1968 097CK		5234	USSR	1 NOV	23 FEB 72	
1968 097CT		5518	USSR	1 NOV	20 NOV 76	
1968 097CY		5632	USSR	1 NOV	9 MAR 73	
1968 097CZ		5749	USSR	1 NOV	12 OCT 76	
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 097DL		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 100C		3546	US	8 NOV	6 OCT 71	
1968 100F		3548	US	8 NOV	6 JAN 72	
1968 101A	ZOND 6	3536	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	PRCTCN 4	3544	USSR	16 NOV	24 JUL 69	
1968 107B		3545	USSR	16 NOV	25 JAN 69	
1968 104A	COSMCS 254	3542	USSR	21 NOV	29 NOV 68	
1968 104B		3563	USSR	21 NOV	27 NOV 68	
1968 105A	COSMOS 255	3574	USSR	20 NOV	7 DEC 68	
1968 105B		3575	USSR	20 NOV	5 DEC 68	
1968 107A	COSMCS 257	3578	USSR	3 DEC	5 MAR 69	
1968 107B		3579	USSR	3 DEC	16 JAN 69	
1968 108A		3584	US	4 DEC	12 DEC 68	
1968 108A	HEOS-A1	3595	ESPO	5 DEC	28 OCT 75	
1968 109A		3596	US	5 DEC	27 DEC 68	
1968 109B		3602	USSR	10 DEC	18 DEC 68	
1968 111A	COSMCS 258	3603	USSR	10 DEC	17 DEC 68	
1968 111B		3604	US	12 DEC	28 DEC 68	
1968 112A		3604	US	14 DEC	5 MAY 69	
1968 113A	COSMOS 259	3612	USSR	14 DEC	10 MAY 69	
1968 113B		3613	USSR	14 DEC	13 MAY 69	
1968 113C		3614	USSR	14 DEC	9 JUL 73	
1968 115A	COSMCS 260	3619	USSR	16 DEC	6 FEB 69	
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	117Z		USSR	19 DEC	SEE NOTE AB*	AB*
1968 119A	APOLLO 8	3626	US	21 DEC	27 DEC 68	AC*
1968 119A	COSMCS 262	3629	USSR	26 DEC	18 JUL 69	
1968 1199		3630	USSR	26 DEC	30 APR 69	

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1969 LAUNCHES						
1969 001A	VENUS 5	3642	USSR	5 JAN	16 MAY 69	M*
1969 001B		3643	USSR	5 JAN	6 JAN 69	
1969 001C		3644	USSR	5 JAN	7 JAN 69	
1969 002A	VENUS 6	3648	USSR	10 JAN	17 MAY 69	M*
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	F*
1969 004B		3655	USSR	14 JAN	15 JAN 69	
1969 005A	SOYUZ 5	3656	USSR	15 JAN	18 JAN 69	F*
1969 005B		3657	USSR	15 JAN	17 JAN 69	
1969 005C		3658	USSR	15 JAN	18 JAN 69	
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 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 021B	021Y		USSR	5 MAR	SEE NOTE	AD*
1969 022A	COSMOS 270	3777	USSR	6 MAR	14 MAR 69	AC*
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 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 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		3855	USSR	26 MAR	18 MAY 70	
1969 029K		3860	USSR	26 MAR	26 DEC 71	
1969 029L		3861	USSR	26 MAR	4 JUN 74	
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 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	

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1969 LAUNCHES (CONT.)						
1969 061G		5302	USSR	22 JUL	18 JUN 71	
1969 063A		4050	US	24 JUL	23 AUG 69	
1969 064B	- 064X		US	26 JUL	SEE NOTE	AF*
1969 065A		4054	US	31 JUL	4 JAN 73	
1969 066A	COSMOS 291	4058	USSR	6 AUG	8 SEP 69	
1969 066H		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 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 082V		4153	US	30 SEP	14 APR 71	
1969 082BK		4196	US	30 SEP	7 MAY 73	
1969 082DA		4113	US	30 SEP	21 OCT 69	
1969 082DC		4115	US	30 SEP	21 OCT 69	
1969 082DJ		4272	US	30 SEP	9 SEP 70	
1969 082DK		4288	US	30 SEP	12 SEP 70	
1969 082DW		4323	US	30 SEP	3 FEB 71	
1969 082DX		4324	US	30 SEP	10 MAY 70	
1969 082EA		4336	US	30 SEP	7 MAY 73	
1969 082EL		4439	US	30 SEP	9 MAY 72	
1969 082EC		4443	US	30 SEP	28 JUL 70	
1969 082FA		4457	US	30 SEP	19 OCT 70	
1969 082FE		4461	US	30 SEP	13 JUN 74	
1969 082GT		4540	US	30 SEP	3 FEB 72	
1969 082GK		4542	US	30 SEP	28 DEC 70	
1969 082HA		4851	US	30 SEP	1 JAN 72	
1969 082HE		4892	US	30 SEP	24 AUG 72	
1969 082HC		4893	US	30 SEP	7 MAY 73	
1969 082HN		5159	US	30 SEP	30 DEC 72	
1969 082HG		5270	US	30 SEP	20 JAN 74	
1969 082HR		5271	US	30 SEP	7 APR 73	
1969 082JB		5522	US	30 SEP	6 DEC 71	
1969 082JC		5593	US	30 SEP	22 MAY 73	
1969 082JJ		5750	US	30 SEP	23 JAN 77	
1969 082JL		5752	US	30 SEP	12 OCT 76	
1969 082JO		5756	US	30 SEP	26 OCT 74	
1969 082JT		5751	US	30 SEP	3 JAN 77	
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	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 082KC		5900	US	30 SEP	19 MAR 73	
1969 082KJ		7285	US	30 SEP	19 JUL 74	
1969 083A	ESRO-1B	4114	FSRD	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	8 JAN 70	
1969 096B		4220	USSR	4 NOV	6 DEC 69	
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	
1969 099C	LUNAR MODULE	4246	US	14 NOV	20 NOV 69	AF* AG*
1969 100A	COSMOS 310	4232	USSR	15 NOV	23 NOV 69	
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 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	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)						
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	4326	USSR	10 FEB	18 FEB 70	
1970 010B		4329	USSR	10 FEB	15 FEB 70	
1970 013A	MOLNIYA 1	4336	USSR	19 FEB	29 SEP 75	
1970 013B		4332	USSR	19 FEB	9 MAR 70	
1970 013C		4334	USSR	19 FEB	11 MAR 70	
1970 013D		4337	USSR	19 FEB	9 JAN 76	
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 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 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 025BP		4701	US	8 APR	22 JUL 72	
1970 025BQ		4702	US	8 APR	7 JUL 72	
1970 025CF		4732	US	8 APR	6 FEB 72	
1970 025CP		4740	US	8 APR	10 AUG 72	
1970 025FN		4915	US	8 APR	8 AUG 71	
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 025HE		4984	US	8 APR	11 APR 72	
1970 025JD		5038	US	8 APR	18 JUL 71	
1970 025KK		5346	US	8 APR	14 OCT 71	
1970 025LB		5423	US	8 APR	5 DEC 71	
1970 025LN		5509	US	8 APR	11 APR 72	
1970 025LO		5535	US	8 APR	24 MAR 72	
1970 025LT		5621	US	8 APR	21 MAR 72	
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 026A	COSMOS 331	4364	USSR	8 APR	16 APR 70	
1970 026B		4365	USSR	8 APR	16 APR 70	
1970 029A	APCLLO 13	4371	US	11 APR	17 APR 70	
1970 029B		4372	US	11 APR	15 APR 70	
1970 030A	COSMOS 333	4373	USSR	15 APR	28 APR 70	
1970 030B		4374	USSR	15 APR	18 APR 70	
1970 030C		4355	USSR	15 APR	2 MAY 70	
1970 030D		4356	USSR	15 APR	9 MAY 70	
1970 031A		4375	US	15 APR	6 MAY 70	
1970 033A	COSMOS 334	4376	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		4359	USSR	23 APR	16 MAY 70	

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INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)						
1970 035A	COSMCS 335	4380	USSR	24 APR	22 JUN 70	
1970 035B		4381	USSR	24 APR	17 MAY 70	
1970 038A	COSMCS 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	
1970 044B		4414	USSR	13 JUN	9 JUL 70	
1970 044C		4415	USSR	13 JUN	17 JUN 70	
1970 045A	COSMCS 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	MDLNIYA 1	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	COSMCS 351	4427	USSR	27 JUN	13 OCT 70	
1970 051B		4428	USSR	27 JUN	18 AUG 70	
1970 052A	COSMCS 352	4446	USSR	7 JUL	15 JUL 70	
1970 052B		4447	USSR	7 JUL	12 JUL 70	
1970 053A	COSMCS 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 059C		4489	USSR	17 AUG	15 DEC 70	
1970 060A	VENERA 7	4490	USSR	17 AUG	18 AUG 70	MA
1970 060B		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 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		4503	US	26 AUG	26 MAR 75	
1970 068A	COSMCS 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	30 AUG	11 SEP 70	
1970 068E		4526	USSR	30 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	
1970 071D		4546	USSR	8 SEP	26 SEP 70	
1970 072A	LUNA 16	4527	USSR	12 SEP	24 SEP 70	AJ
1970 072B		4528	USSR	12 SEP	15 SEP 70	

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DESIGNATION

DECAYED OBJECTS

NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)					
1970 072C	4529	USSR	12 SEP	15 SEP 70	
1970 073A	4536	USSR	16 SEP	13 OCT 71	
1970 073B	4537	USSR	16 SEP	28 MAR 71	
1970 074A	4538	USSP	17 SEP	29 SEP 70	
1970 074B	4539	USSR	17 SEP	22 SEP 70	
1970 075A	4593	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	4556	USSR	25 SEP	25 SEP 70	
1970 076B	4557	USSP	25 SEP	25 SEP 70	
1970 076C	4558	USSR	25 SEP	25 SEP 70	
1970 077A	4565	USSR	26 SEP	20 MAR 76	
1970 077B	4559	USSR	26 SEP	23 OCT 70	
1970 077C	4560	USSR	26 SEP	16 OCT 70	
1970 077D	4570	USSR	26 SEP	31 MAY 72	
1970 077E	5590	USSR	26 SEP	30 APR 72	
1970 078A	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	USSP	3 OCT	31 OCT 70	
1970 079D	4567	USSR	3 OCT	8 OCT 70	
1970 080A	4568	USSR	3 OCT	12 OCT 70	
1970 080B	4571	USSR	8 OCT	14 OCT 70	
1970 080C	4572	USSR	8 OCT	20 OCT 70	
1970 080D	4575	USSP	8 OCT	7 JAN 71	
1970 080E	4582	USSR	8 OCT	19 OCT 70	
1970 081A	4565	USSR	8 OCT	4 NOV 70	
1970 081B	4573	USSR	8 OCT	22 JAN 71	
1970 082A	4574	USSR	8 OCT	30 NOV 70	
1970 082B	4576	USSR	9 OCT	22 OCT 70	
1970 082C	4577	USSR	9 OCT	13 OCT 70	
1970 084A	4593	USSR	9 OCT	27 OCT 70	
1970 084B	4580	USSR	14 OCT	17 JAN 71	
1970 087B	4581	USSR	14 OCT	17 DEC 70	
1970 088A	4595	USSR	20 OCT	18 JAN 71	
1970 088B	4591	USSR	20 OCT	27 OCT 70	
1970 089Y	4592	USSR	20 OCT	26 OCT 70	
1970 089AF	5022	USSR	23 OCT	24 JUN 72	
1970 089AG	5068	USSR	23 OCT	5 DEC 76	
1970 089AL	5069	USSR	23 OCT	22 FEB 72	
1970 089AM	5073	USSP	23 OCT	26 JUL 71	
1970 089AN	5078	USSR	23 OCT	22 APR 72	
1970 089AY	5138	USSP	23 OCT	24 MAR 72	
1970 089BC	5199	USSR	23 OCT	5 DEC 76	
1970 089BD	5202	USSR	23 OCT	23 AUG 77	
1970 089BL	5293	USSR	23 OCT	5 DEC 76	
1970 089BM	5294	USSP	23 OCT	16 FEB 72	
1970 089BN	5321	USSP	23 OCT	5 DEC 76	
1970 089BR	5335	USSR	23 OCT	20 NOV 76	
1970 089BX	5431	USSR	23 OCT	26 JAN 72	
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 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 090A	4594	US	23 OCT	11 NOV 70	
1970 091AG	4566	USSR	30 OCT	16 SEP 77	
1970 091AP	5069	USSP	30 OCT	5 DEC 76	
1970 092A	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	4690	US	9 NOV	9 MAY 71	
1970 094B	4692	US	9 NOV	7 FEB 71	
1970 094C	4693	US	9 NOV	18 DEC 70	

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)							
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	Q*
1970 095B			4694	USSR	10 NOV	13 NOV 70	
1970 095C			4697	USSR	10 NOV	13 NOV 70	
1970 096A	COSMCS 377		4655	USSR	11 NOV	23 NOV 70	
1970 096B			4696	USSR	11 NOV	16 NOV 70	
1970 097A	COSMDS 378		4713	USSR	17 NOV	17 AUG 72	
1970 0973			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 099B			4761	USSR	24 NOV	26 NOV 70	
1970 099C			4760	USSR	24 NOV	13 FEB 71	
1970 099D			4817	USSR	24 NOV	2 JAN 71	
1970 100A	COSMCS 380		4762	USSR	24 NOV	17 JUN 71	
1970 1003			4763	USSR	24 NOV	9 APR 71	
1970 101A	MOLNIYA 1		4775	USSR	27 NOV	25 NOV 75	
1970 1013			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 DFC	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 DFC	27 DEC 70	
1970 109F			5952	FRANCE	12 DFC	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	
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	COSMCS 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		4829	USSR	25 DEC	22 DFC 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	AK*
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			4893	USSR	12 JAN	27 JAN 71	
1971 001F			4856	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			4675	US	21 JAN	22 JAN 71	
1971 005C			4909	US	21 JAN	9 FEB 71	

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)						
1971 007A	COSMOS 393	4884	USSR	25 JAN	16 JUN 71	
1971 007B		4885	USSR	26 JAN	31 MAR 71	
1971 008A	APCLLO 14	4900	US	31 JAN	9 FEB 71	AG*
1971 008B		4904	US	31 JAN	4 FEB 71	G#
1971 008C	LUNAR MODULE	4905	US	31 JAN	7 FEB 71	AG*
1971 009C		5674	US	3 FEB	10 AUG 75	
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		4560	USSR	18 FEB	25 FEB 71	
1971 014C		4961	USSR	18 FEB	20 FEB 71	
1971 014D		4962	USSR	18 FEB	21 FEB 71	
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 015AV		5201	USSR	25 FEB	9 AUG 77	
1971 015BA		5262	USSR	25 FEB	4 OCT 74	
1971 015CJ		4745	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		5079	USSR	26 FEB	26 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 018J		5041	PRC	3 MAR	16 FEB 76	
1971 019A	EXPLORER 43	5043	US	13 MAR	2 OCT 74	
1971 019H		5044	US	13 MAR	22 MAY 71	
1971 019D		5046	US	13 MAR	15 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	
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 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	

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1971 LAUNCHES (CONT.)						
1971 032F		5167	USSR	10 APR	21 APR 71	
1971 032G		5168	USSR	10 APR	21 APR 71	
1971 033A		5171	US	22 APR	13 MAY 71	
1971 034A	SOYUZ 10	5172	USSR	22 APR	24 APR 71	F*
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		522E	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		5250	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	5239	USSR	19 MAY	27 NOV 71	AL*
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		5256	USSR	28 MAY	15 JUN 71	
1971 048D		5257	USSR	28 MAY	11 JUN 71	
1971 048E		5252	USSR	28 MAY	11 JUN 71	
1971 049B		5255	USSR	28 MAY	31 MAY 71	
1971 049C		5256	USSR	28 MAY	31 MAY 71	
1971 049D		5253	USSR	28 MAY	1 JUN 71	
1971 049E	CAPSULE	5267	USSR	28 MAY	2 DEC 71	AL*
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		5556	USSR	4 JUN	8 DEC 77	
1971 053A	SOYUZ 11	5283	USSR	6 JUN	29 JUN 71	Z*
1971 053B		5244	USSR	6 JUN	7 JUN 71	
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		5306	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		5316	USSR	24 JUN	13 JUL 71	
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 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	

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DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)						
1971 061D		5371	USSR	20 JUL	4 AUG 71	
1971 061E		5373	USSR	20 JUL	4 AUG 71	
1971 062A	COSMCS 430	5340	USSR	23 JUL	5 AUG 71	
1971 0629		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		5355	USSR	23 JUL	7 AUG 71	
1971 063A	APOLLO 15	5351	US	24 JUL	7 AUG 71	
1971 063B		5352	US	26 JUL	30 JUL 71	A = * G = *
1971 063C	LUNAR MCDULF	5366	US	26 JUL	3 AUG 71	AG*
1971 064A	MOLNIYA 1	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	19 AUG 71	
1971 067A	OV1-20	5354	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		5356	US	7 AUG	11 JUN 72	
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 069B		5408	USSR	12 AUG	18 AUG 71	
1971 069C		5427	USSR	12 AUG	19 SEP 71	
1971 069D		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	COSMCS 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 074B	0740		USSR	7 SEP	SEE NOTE	AM*
1971 075C		5779	USSR	10 SEP	23 FEB 77	
1971 076A		5465	US	10 SEP	5 OCT 71	
1971 076B		5469	US	10 SEP	3 FEB 76	
1971 076C		5181	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	COSMCS 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		5441	USSR	28 SEP	13 OCT 71	
1971 081F		5542	USSR	28 SEP	11 OCT 71	
1971 081G		5543	USSR	28 SEP	12 OCT 71	

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1971 LAUNCHES (CONT.)						
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 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	USSP	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	USSP	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	
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 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 094A	COSMOS 454	5555	USSR	2 NOV	16 NOV 71	
1971 094B		5586	USSP	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	5620	USSR	24 NOV	10 MAY 76	
1971 100B		5617	USSR	24 NOV	19 DEC 71	
1971 100C		5618	USSP	24 NOV	30 DEC 71	
1971 100D		5619	USSR	24 NOV	29 NOV 71	
1971 100E		5699	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	USSP	29 NOV	11 DEC 71	
1971 102C		5627	USSR	29 NOV	4 DEC 71	
1971 103C		5630	USSR	30 NOV	21 NOV 72	
1971 104A	INTERCOSMOS 5	5641	USSR	2 DEC	7 APR 72	
1971 104B		5642	USSP	2 DEC	2 MAR 72	
1971 104C		5645	USSR	2 DEC	13 DEC 71	
1971 105C		5647	USSP	2 DEC	3 APR 72	
1971 105D		5648	USSP	2 DEC	3 APR 72	
1971 106A	COSMOS 462	5646	USSR	3 DEC	4 APR 75	
1971 106B	106AE		USSR	3 DEC		
1971 107A	COSMOS 463	5651	USSR	6 DEC	11 DEC 71	

1971 LAUNCHES (CONT.)
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1971 LAUNCHES (CONT.)
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1971 LAUNCHES (CCNT.)						
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 109C		5677	US	11 DEC	18 JAN 73	
1971 109D		5679	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	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	
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 119D		6163	USSR	27 DEC	2 OCT 73	
1971 119E		6190	USSR	27 DEC	25 OCT 77	
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 004A	COSMOS 472	5804	USSR	25 JAN	18 AUG 72	
1972 004B		5805	USSR	25 JAN	6 MAY 72	
1972 005A	HEOS-A2	5814	USSR	31 JAN	2 AUG 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	7 FEB	15 FEB 72	
1972 006B		5822	USSR	3 FEB	11 FEB 72	
1972 007A	LUNA 20	5635	USSR	14 FEB	25 FEB 72	AJ*
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	
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	23 FEB 72	
1972 008D		5849	USSR	16 FEB	23 FEB 72	
1972 008E		5850	USSR	16 FEB	23 FEB 72	
1972 010C		5855	US	1 MAR	1 MAR 72	
1972 012C		5878	US	3 MAR	3 MAR 72	
1972 013A	COSMOS 477	5862	USSR	4 MAR	18 AUG 72	
1972 013B		5863	USSR	4 MAR	16 MAR 72	
1972 013C		5863	USSR	4 MAR	10 MAR 72	
1972 013D		5864	USSR	4 MAR	5 MAR 72	
1972 013E		5865	USSR	4 MAR	5 MAR 72	
1972 013F		5882	USSR	4 MAR	23 MAR 72	
1972 013F		5883	USSR	4 MAR	17 MAR 72	

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1972 LAUNCHES (CCNT.)						
1972 014C		5881	ESRO	12 MAR	22 MAY 72	
1972 0140		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 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	
1972 021B		5913	USSR	27 MAR	29 MAR 72	
1972 021C		5914	USSR	27 MAR	29 MAR 72	
1972 023B		5920	USSR	31 MAR	1 APR 72	
1972 023C		5921	USSR	27 MAR	2 APR 72	
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	5927	USSR	4 APR	30 JAN 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 6	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	
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	AE*
1972 031B		6001	US	16 APR	19 APR 72	G*
1972 031D	APOLLO 16 SUBSATELLITE	6009	US	16 APR	29 MAY 72	G*
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	

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)						
1972 036C		6039	USSR	17 MAY	30 MAY 72	
1972 036D		6040	USSR	17 MAY	6 JUN 72	
1972 037A	MOLNIYA 2	6031	USSR	10 MAY	22 MAR 77	
1972 037B		6028	USSR	19 MAY	8 JUN 72	
1972 037C		6029	USSR	10 MAY	9 JUN 72	
1972 037D		6030	USSR	6 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 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	
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 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	

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1972 LAUNCHES (CONT.)						
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	
1972 058B		6127	US	23 JUL	12 FEB 77	
1972 058F		7835	US	23 JUL	23 FEB 77	
1972 058BB		7884	US	23 JUL	23 NOV 75	
1972 058DN		8087	US	23 JUL	5 MAY 77	
1972 058DX		8096	US	23 JUL	28 JUN 76	
1972 058DY		8097	US	23 JUL	15 NOV 75	
1972 058ED		6125	US	23 JUL	12 OCT 75	
1972 058FK		8363	US	23 JUL	16 MAR 77	
1972 058FP		8434	US	23 JUL	31 JAN 76	
1972 058GB		8506	US	23 JUL	23 FEB 77	
1972 058GF		8540	US	23 JUL	2 NOV 77	
1972 058HV		9729	US	23 JUL	21 APR 77	
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 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 066B		6196	USSR	21 AUG	25 SEP 72	
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 075B		6209	USSR	30 SEP	26 OCT 72	
1972 075C		6211	USSR	30 SEP	1 NOV 72	
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 LAUNCHES (CONT.)
 COSMOS 503, 512, 513, 515, 517, 518, 519, 522, 523

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1972 LAUNCHES (CONT.)						
1972 078G		6241	USSR	5 OCT	12 NOV 72	
1972 078H		6242	USSR	5 OCT	26 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 079H		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	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		6204	USSR	14 OCT	16 MAR 75	
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 088C		6274	USSR	3 NOV	19 DEC 73	
1972 090B		6279	US	10 NOV	7 MAY 73	
1972 092A	ESRO IV	6285	ESRO	22 NOV	15 APR 74	
1972 092B		6286	US	22 NOV	JUL 73	
1972 093A	COSMOS 537	6287	USSR	25 NOV	9 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	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 76	
1972 096A	APOLLO 17	6300	US	7 DEC	19 DEC 72	
1972 096B		6301	US	7 DEC	10 DEC 72	
1972 096C	LUNAR MODULE	6307	US	7 DEC	15 DEC 72	
1972 098A	4TH MOLNIYA 2	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	
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	

AF*
G*
AG*

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES						
1973 001A	LUNA 21	6333	USSR	8 JAN	15 JAN 73	O*
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 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	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		6353	USSR	3 FEB	10 MAR 73	
1973 008A	COSMOS 548	6359	USSR	8 FEB	21 FEB 72	
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 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	
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	6384	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 -	017AB		USSR	3 APR	SEE NOTE AD*	AP*
1973 018B		6419	USSR	5 APR	24 APR 73	
1973 018C		6420	USSR	5 APR	30 APR 73	
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 -	021BE		USSR	19 APR	SEE NOTE AQ*	AQ*
1973 022A	INTERCOSMOS COPERNICUS 500	6433	USSR	19 APR	15 OCT 73	
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	28 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	
1973 026A	COSMOS 557	6458	USSR	11 MAY	22 MAY 73	
1973 026B		6499	USSR	11 MAY	17 MAY 73	
1973 027B -	027Z		US	14 MAY	SEE NOTE AR*	AR*

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 028A		6640	US	16 MAY	13 JUN 73	
1973 029A	COSMCS 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	COSMCS 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		6653	USSR	23 MAY	12 JUN 73	
1973 031E		6664	USSR	23 MAY	6 JUN 73	
1973 032A	SKYLAB 2	6665	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	
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 039C		6688	US	10 JUN	20 JAN 74	
1973 039E		6690	US	10 JUN	19 SEP 73	
1973 039H		6773	US	10 JUN	27 SEP 73	
1973 041A	COSMCS 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	21 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		6718	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 045B		6723	USSR	11 JUL	22 AUG 73	
1973 045C		6724	USSR	11 JUL	3 AUG 73	
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	COSMCS 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	COSMCS 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		6765	USSR	5 AUG	7 AUG 73	

DECAYED OBJECTS

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 052C		6771	USSR	5 AUG	7 AUG 73	
1973 052D	CAPSULE	7223	USSR	5 AUG	12 MAR 74	AL*
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	
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 059D		6998	USSR	28 AUG	5 MAR 75	
1973 060E		6999	USSR	28 AUG	7 NOV 74	
1973 061B		6806	USSR	30 AUG	1 OCT 73	
1973 061C		6807	USSR	30 AUG	8 OCT 73	
1973 061D		6808	USSR	30 AUG	8 SEP 73	
1973 061E		6812	USSR	30 AUG	7 SEP 73	
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 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	6876	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	15 OCT 73	
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	COSMOS 601		USSR	16 OCT	SEE NOTE AS*	AS*

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 076B		6878	USSR	19 OCT	3 DEC 73	
1973 076C		6879	USSR	19 OCT	18 DEC 73	
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		6854	US	26 OCT	29 OCT 73	
1973 07EE		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	
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 086FH		7199	US	6 NOV	17 JUL 74	
1973 086FN		7204	US	6 NOV	13 DEC 77	
1973 086FP		7205	US	6 NOV	14 DEC 76	
1973 086FQ		7206	US	6 NOV	16 OCT 74	
1973 086FR		7207	US	6 NOV	13 MAY 74	
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 086A		6928	US	10 NOV	13 MAR 74	
1973 088C		6929	US	10 NOV	13 NOV 73	
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 090A	SKYLAB 4	6936	US	16 NOV	8 FEB 74	
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 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	20 JAN 74	
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 101B		6978	US	16 DEC	14 AUG 74	
1973 102A	COSMOS 616	6979	USSR	17 DEC	28 DEC 73	

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INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
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	
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 106B		7001	USSR	25 DEC	24 JAN 74	
1973 106C		7002	USSR	25 DEC	17 JAN 74	
1973 106B		7113	USSR	27 DEC	17 FEB 74	
1973 106C		7114	USSR	27 DEC	23 FEB 74	
1973 106D		7115	USSR	27 DEC	22 MAR 74	
1973 106E		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 005D		7112	USSR	6 FEB	11 OCT 75	
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 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 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	

INTERNATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)							
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	5 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	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	
1974	022B		7251	US	13 APR	25 MAY 74	
1974	022C		7252	US	13 APR	25 NOV 74	
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	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	034C		7305	USSR	17 MAY	29 DEC 74	
1974	036A	COSMOS 656	7313	USSR	27 MAY	39 MAY 74	
1974	036B		7314	USSR	27 MAY	2 JUN 74	
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	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	

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CCNT.)						
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 046A	SALYLT 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		7363	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 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	
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 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		7415	USSR	7 AUG	9 SEP 74	
1974 062D		7420	USSR	7 AUG	23 AUG 74	
1974 064A	COSMOS 672	7413	USSR	12 AUG	16 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	F*
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	

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NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)					
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 - 074V		USSR	26 SEP		SFE NOTE AT*
1974 076B	7470	USSR	11 OCT	4 JAN 77	
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	7491	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	
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 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	
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 089D P	8787	US	15 NOV	24 AUG 77	
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	

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1974 LAUNCHES (CONT.)						
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 1E	7561	USSR	2 DEC	9 DEC 74	F*
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	28 DEC 74	
1974 098E		7590	USSR	13 DEC	26 DEC 74	
1974 100C		7582	USSR	18 DEC	9 MAR 77	
1974 100E		7595	USSR	18 DEC	29 SEP 77	
1974 100J		7593	USSR	18 DEC	1 AUG 77	
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	
1974 103C		7748	USSR	24 DEC	8 JAN 77	
1974 103D		7749	USSR	24 DEC	12 APR 76	
1974 103E		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 103I		7758	USSR	24 DEC	16 AUG 75	
1974 103K		7759	USSR	24 DEC	6 JUN 76	
1974 103L		7760	USSR	24 DEC	30 OCT 75	
1974 103M		7762	USSR	24 DEC	29 JUL 75	
1974 103N		7763	USSR	24 DEC	12 APR 76	
1974 103P		7764	USSR	24 DEC	26 AUG 75	
1974 103Q		7765	USSR	24 DEC	23 SEP 77	
1974 103R		7766	USSR	24 DEC	25 JUL 75	
1974 103S		7767	USSR	24 DEC	9 JUL 75	
1974 103T		7783	USSR	24 DEC	6 JUL 75	
1974 103U		7784	USSR	24 DEC	10 OCT 75	
1974 103V		7784	USSR	24 DEC	9 JUL 75	
1974 103W		7793	USSR	24 DEC	9 SEP 75	
1974 103X		7814	USSR	24 DEC	1 NOV 75	
1974 103Z		8046	USSR	24 DEC	1 NOV 76	
1974 103AB		8048	USSR	24 DEC	22 MAR 76	
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 103AJ		8100	USSR	24 DEC	20 SEP 75	
1974 103AK		8101	USSR	24 DEC	13 MAR 76	
1974 103AL		8103	USSR	24 DEC	30 SEP 75	
1974 103AM		8104	USSR	24 DEC	29 JAN 76	
1974 103AO		8106	USSR	24 DEC	12 APR 76	
1974 103AR		8109	USSR	24 DEC	24 SEP 75	
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 103AZ		8119	USSR	24 DEC	1 NOV 75	
1974 104A	SALYUT 4	7599	USSR	26 DEC	2 FEB 77	
1974 104B	104U		USSR	26 DEC	SEE NOTE AU*	AU*
1974 106A	COSMOS 701	7596	USSR	27 DEC	9 JAN 75	
1974 106B		7597	USSR	27 DEC	7 JAN 75	

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)							
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	F*
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	
1975	001G		7673	USSR	10 JAN	15 APR 75	
1975	001H		7635	USSR	10 JAN	25 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	31 JAN 75	
1975	003A	COSMOS 703	7611	USSR	21 JAN	20 NOV 75	
1975	003B		7612	USSR	21 JAN	22 AUG 75	
1975	004K		8683	US	22 JAN	5 APR 77	
1975	004N		8687	US	22 JAN	18 FEB 77	
1975	004AM		8955	US	22 JAN	23 JUN 77	
1975	004BC		8974	US	22 JAN	31 JAN 77	
1975	004CN		9004	US	22 JAN	3 JUL 77	
1975	004CW		9032	US	22 JAN	4 FEB 77	
1975	004DC		9038	US	22 JAN	31 JAN 77	
1975	004DL		9288	US	22 JAN	31 JAN 77	
1975	004DM		9296	US	22 JAN	25 APR 77	
1975	004DP		9298	US	22 JAN	1 OCT 77	
1975	004DR		9290	US	22 JAN	27 MAY 77	
1975	004DY		9297	US	22 JAN	31 JAN 77	
1975	004DZ		9298	US	22 JAN	9 FEB 77	
1975	004EW		9310	US	22 JAN	7 JUL 77	
1975	004ET		9316	US	22 JAN	28 DEC 77	
1975	004EZ		9322	US	22 JAN	12 APR 77	
1975	004FF		9543	US	22 JAN	28 NOV 77	
1975	004FJ		9546	US	22 JAN	7 OCT 77	
1975	004HA		9716	US	22 JAN	25 NOV 77	
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	008C		7639	USSR	5 FEB	14 DEC 75	
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	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	

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1975 LAUNCHES (CONT.)					
1975 013E		7669	USSR	12 FEB	15 FEB
1975 013F		7672	USSR	12 FEB	1 MAR
1975 013G		7673	USSR	12 FEB	26 FEB
1975 015A	COSMOS 710	7675	USSR	26 FEB	12 MAR
1975 015B		7676	USSR	26 FEB	3 MAR
1975 015C		7677	USSR	26 FEB	3 MAR
1975 015D		7689	USSR	26 FEB	12 MAR
1975 015E		7690	USSR	26 FEB	16 MAR
1975 018A	COSMOS 719	7691	USSR	12 MAR	25 MAR
1975 018B		7692	USSR	12 MAR	16 MAR
1975 018C		7693	USSR	12 MAR	16 MAR
1975 018D		7701	USSR	12 MAR	26 MAR
1975 018E		7702	USSR	12 MAR	30 MAR
1975 018F		7703	USSR	12 MAR	28 MAR
1975 019A	COSMOS 720	7696	USSR	21 MAR	1 APR
1975 019B		7697	USSR	21 MAR	30 MAR
1975 019C		7698	USSR	21 MAR	22 MAR
1975 019D		7699	USSR	21 MAR	25 MAR
1975 019E		7700	USSR	21 MAR	22 MAR
1975 019F		7717	USSR	21 MAR	5 APR
1975 019G		7719	USSR	21 MAR	4 APR
1975 019H		7725	USSR	21 MAR	10 APR
1975 019J		7726	USSR	21 MAR	9 APR
1975 020A	COSMOS 721	7705	USSR	26 MAR	7 APR
1975 020B		7706	USSR	26 MAR	29 MAR
1975 020C		7707	USSR	26 MAR	29 MAR
1975 020D		7708	USSR	26 MAR	31 MAR
1975 020E		7720	USSR	26 MAR	7 APR
1975 020F		7721	USSR	26 MAR	10 APR
1975 021A	COSMOS 722	7709	USSR	27 MAR	9 APR
1975 021B		7711	USSR	27 MAR	9 APR
1975 021C		7712	USSR	27 MAR	29 MAR
1975 021D		7716	USSR	27 MAR	2 APR
1975 021E		7728	USSR	27 MAR	10 APR
1975 021F		7729	USSR	27 MAR	12 APR
1975 021G		7732	USSR	27 MAR	14 APR
1975 021H		7733	USSR	27 MAR	10 APR
1975 024B		7795	USSR	2 APR	21 MAY
1975 024C		7796	USSR	2 APR	15 MAY
1975 024D		7797	USSR	2 APR	15 JUL
1975 024E		7798	USSR	2 APR	24 MAY
1975 024F		7799	USSR	2 APR	25 MAY
1975 025B		7922	USSR	7 APR	7 AUG
1975 025C		7923	USSR	7 APR	17 JUN
1975 026A	COSMOS 725	7730	USSR	8 APR	6 JAN
1975 026B		7731	USSR	8 APR	9 SEP
1975 029B		7739	USSR	14 APR	20 JUN
1975 029C		7740	USSR	14 APR	4 JUN
1975 030A	COSMOS 727	7742	USSR	16 APR	28 APR
1975 030B		7743	USSR	16 APR	21 APR
1975 030C		7744	USSR	16 APR	19 APR
1975 030D		7774	USSR	16 APR	5 MAY
1975 030E		7775	USSR	16 APR	1 MAY
1975 031A	COSMOS 728	7745	USSR	18 APR	29 APR
1975 031B		7746	USSR	18 APR	30 APR
1975 031C		7751	USSR	18 APR	20 APR
1975 031D		7761	USSR	18 APR	22 APR
1975 031E		7776	USSR	18 APR	3 MAY
1975 031F		7778	USSR	18 APR	28 APR
1975 031G		7779	USSR	18 APR	16 MAY
1975 032A		7747	US	18 APR	5 JUN
1975 033D		9839	USSR	19 APR	21 JUN
1975 035A	COSMOS 730	7770	USSR	24 APR	6 MAY
1975 035B		7771	USSR	24 APR	29 APR
1975 035C		7772	USSR	24 APR	1 MAY
1975 035D		7773	USSR	24 APR	28 APR

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1975 LAUNCHES (CCNT.)						
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 038B		7781	US	7 MAY	3 NOV 76	
1975 038C		7782	US	7 MAY	8 MAY 75	
1975 039A	POLLUX	7801	FRANCE	17 MAY	5 AUG 75	
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 040A		7807	US	20 MAY	26 MAY 75	
1975 040B		7808	US	20 MAY	26 MAY 75	
1975 040C		7809	US	20 MAY	21 MAY 75	E*
1975 041A	COSMCS 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	
1975 044B	044U		USSR	24 MAY	SEE NOTE	AV*
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	
1975 046D		7920	USSR	28 MAY	18 JUN 75	
1975 046E		7921	USSR	28 MAY	18 JUN 75	
1975 047A	COSMOS 741	7677	USSR	30 MAY	11 JUN 75	
1975 047B		7878	USSR	30 MAY	4 JUN 75	
1975 048A	COSMCS 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	M*
1975 051A		7918	US	8 JUN	5 NOV 75	
1975 051B		7919	US	8 JUN	11 JUN 75	
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		7984	USSR	14 JUN	15 JUN 75	
1975 054D	DESCENT CRAFT	8423	USSR	14 JUN	25 OCT 75	
1975 058A	COSMCS 745	7982	USSR	24 JUN	12 MAR 76	M*
1975 058B		7983	USSR	24 JUN	14 NOV 75	
1975 059A	COSMCS 746	7925	USSR	25 JUN	8 JUL 75	
1975 059B		7926	USSR	25 JUN	1 JUL 75	
1975 059D		7982	USSR	25 JUN	26 JUN 75	
1975 059E		7989	USSR	25 JUN	26 JUN 75	
1975 059F		8011	USSR	25 JUN	12 JUL 75	
1975 060A	COSMOS 747	8012	USSR	25 JUN	9 JUL 75	
1975 060B		7990	USSR	27 JUN	9 JUL 75	
1975 060C		7991	USSR	27 JUN	3 JUL 75	
1975 060D		7992	USSR	27 JUN	28 JUN 75	
1975 060D		7993	USSR	27 JUN	2 JUL 75	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTFS
1975 LAUNCHES (CONT.)						
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	15 JUL	15 JUL 75	
1975 061E		8029	USSR	15 JUL	16 JUL 75	
1975 061F		8034	USSR	17 JUL	17 JUL 75	
1975 063B		8016	USSR	9 AUG	9 AUG 75	
1975 063C		8017	USSR	9 AUG	9 AUG 75	
1975 065A	SOYUZ 19	8030	USSR	15 JUL	21 JUL 75	AW*
1975 065B		8031	USSR	15 JUL	17 JUL 75	
1975 066A	APOLLO	8032	US	15 JUL	24 JUL 75	AW*
1975 066H		8033	US	15 JUL	16 JUL 75	
1975 066C		8042	US	15 JUL	2 AUG 75	
1975 067A	COSMCS 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 75	
1975 068A	COSMCS 751	8040	USSR	23 JUL	4 AUG 75	
1975 068B		8041	USSR	23 JUL	30 JUL 75	
1975 070A		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	8024	US	20 AUG	20 JUL 76	AX*
1975 077D		8135	US	27 AUG	23 SEP 76	
1975 078A	COSMCS 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		8198	USSR	27 SEP	10 NOV 75	
1975 079C		8199	USSR	27 SEP	12 OCT 75	
1975 079D		8190	USSR	27 SEP	12 OCT 75	
1975 080A	COSMOS 758	8191	USSR	5 SEP	25 SEP 75	
1975 080B	080CE		USSR	5 SEP	SFE NOTE	AY*
1975 081B		8196	USSR	9 SEP	9 OCT 75	
1975 081C		8198	USSR	9 SEP	18 OCT 75	
1975 083C	VIKING LANDER 2	8408	US	9 SEP	3 SEP 75	AX*
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 086A	COSMOS 769	8322	USSR	23 SEP	5 OCT 75	
1975 086B		8323	USSR	23 SEP	2 OCT 75	
1975 086C		8349	USSR	23 SEP	13 OCT 75	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
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 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	
1975 095B		8348	USSR	1 OCT	10 OCT 75	
1975 095C		8350	USSR	1 OCT	9 OCT 75	
1975 095D		8351	USSR	1 OCT	8 OCT 75	
1975 095E		8352	USSR	1 OCT	14 OCT 75	
1975 095F		8353	USSR	1 OCT	16 OCT 75	
1975 095G		8355	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		8358	USSR	8 OCT	10 OCT 75	
1975 097C		8359	USSR	8 OCT	9 OCT 75	
1975 098A		8360	US	9 OCT	30 NOV 75	
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 101A	COSMOS 776	8372	US	16 OCT	1 NOV 75	
1975 101B		8369	USSR	17 OCT	29 OCT 75	
1975 101C		8370	USSR	17 OCT	23 OCT 75	
1975 101D		8373	USSR	17 OCT	8 NOV 75	
1975 101E		8412	USSR	17 OCT	1 NOV 75	
1975 102A	COSMOS 777	8413	USSR	17 OCT	31 OCT 75	
1975 102B	102E0	8416	USSR	29 OCT	3 JUN 76	
1975 104A	COSMOS 779	8420	USSR	29 OCT	SEE NOTE A7*	A7*
1975 104B		8422	USSR	4 NOV	18 NOV 75	
1975 104C		8428	USSR	4 NOV	10 NOV 75	
1975 104D		8426	USSR	4 NOV	19 NOV 75	
1975 105B		8429	USSR	4 NOV	17 NOV 75	
1975 105C		8426	USSR	14 NOV	15 DEC 75	
1975 105D		8427	USSR	14 NOV	5 DEC 75	
1975 106A	SDYUZ 20	8430	USSR	17 NOV	16 FEB 76	C*
1975 106B		8431	USSR	17 NOV	20 NOV 75	
1975 107H		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	
1975 108E		8461	USSR	21 NOV	2 DEC 75	
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 109H		9693	USSR	21 NOV	11 SEP 77	
1975 110A	COSMOS 782	8450	USSR	25 NOV	15 DEC 75	
1975 110B		8451	USSR	25 NOV	23 DEC 75	
1975 110D		8486	USSR	25 NOV	31 DEC 75	
1975 110E		8487	USSR	25 NOV	10 FEB 76	
1975 111A		8518	USSR	25 NOV	26 JAN 76	
1975 111B		8452	PRC	26 NOV	29 DEC 75	
1975 111C		8453	PRC	26 NOV	22 DEC 75	
1975 111D		8454	PRC	26 NOV	29 NOV 75	
1975 111E		8455	PRC	26 NOV	28 NOV 75	
1975 111F		8456	PRC	26 NOV	28 NOV 75	
1975 113A	COSMOS 784	8463	USSR	26 NOV	28 NOV 75	
1975 113B		8464	USSR	3 DEC	15 DEC 75	
1975 113C		8465	USSR	3 DEC	7 DEC 75	
1975 113D		8466	USSR	3 DEC	4 DEC 75	
1975 113E		8481	USSR	3 DEC	8 DEC 75	
1975 113F		8484	USSR	3 DEC	15 DEC 75	
1975 113G		8485	USSR	3 DEC	20 DEC 75	
1975 114A		8467	US	3 DEC	21 DEC 75	
				4 DEC	1 APR 76	

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)							
1975	114C		8469	US	4 DEC	6 DEC 75	
1975	114D		8470	US	4 DEC	3 JUN 76	
1975	116B		8477	USSR	12 DEC	14 DEC 75	
1975	116C		8480	USSR	12 DEC	6 FEB 76	
1975	117R		8478	US	13 DEC	7 AUG 76	
1975	118B		8483	US	14 DEC	19 DEC 75	
1975	119A		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	
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	26 DEC 75	
1975	125A		8522	USSR	27 DEC	23 JAN 76	
1975	125C		8525	USSR	27 DEC	19 JAN 76	
1975	125C		8526	USSR	27 DEC	28 DEC 75	
1975	125E		8527	USSR	27 DEC	8 JAN 76	
1976 LAUNCHES							
1976	001C		8549	USSR	6 JAN	20 OCT 77	
1976	001D		8550	USSR	6 JAN	24 MAR 77	
1976	001F		8790	USSR	6 JAN	5 AUG 77	
1976	001G		8791	USSR	6 JAN	1 DEC 77	
1976	001H		8792	USSR	6 JAN	12 DEC 77	
1976	001J		8837	USSR	6 JAN	27 AUG 77	
1976	001K		8838	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	006B		8602	USSR	22 JAN	2 APR 76	
1976	006C		8603	USSR	22 JAN	19 APR 76	
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	012B	012S		USSR	5 FEB	SEE NOTE BA*	BA*
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	013C		8707	USSR	11 FEB	29 FEB 76	
1976	013D		8708	USSR	11 FEB	26 FEB 76	
1976	013E		8694	USSR	16 FEB	16 FEB 76	
1976	015A	COSMOS 804	8695	USSR	16 FEB	26 FEB 76	
1976	015B		8696	US	16 FEB	19 FEB 76	
1976	016A		8698	US	19 FEB	16 MAR 76	
1976	017B		8698	US	19 FEB	2 MAR 76	
1976	017D		8704	US	19 FEB	29 FEB 76	
1976	017E		8705	US	20 FEB	11 MAR 76	
1976	018A	COSMOS 805	8699	USSR	20 FEB	27 FEB 76	
1976	018B		8700	USSR	20 FEB	22 FEB 76	
1976	018C		8703	USSR	20 FEB	23 MAR 76	
1976	020A	COSMOS 806	8737	USSR	10 MAR	15 MAR 76	
1976	020H		8738	USSR	10 MAR	30 MAR 76	
1976	020C		8768	USSR	10 MAR	26 MAR 76	
1976	020D		8769	USSR	10 MAR	26 MAR 76	

INTER-
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DECAYED OBJECTS

NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CCNT.)					
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 026A	8763	USSR	19 MAR	27 APR 76	
1976 026C	8767	USSR	19 MAR	7 MAY 76	
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 030A COSMOS 811	8791	USSR	31 MAR	12 APR 76	
1976 030B	8782	USSR	31 MAR	10 APR 76	
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 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 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	8820	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 037B - 037AA COSMOS 817	8823	USSR	28 APR	SEE NOTE 88*	88*
1976 040A	8824	USSR	5 MAY	18 MAY 76	
1976 040B	8825	USSR	5 MAY	10 MAY 76	
1976 040C	8826	USSR	5 MAY	6 MAY 76	
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 041A	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	8859	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 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	

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)							
1976	052D		8821	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	053A		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 E33	8892	USSR	16 JUN	29 JUN 76	
1976	055B		8899	USSR	14 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	9 JUL 76	
1976	055F		8921	USSR	16 JUN	1 JUL 76	
1976	055G		8926	USSR	16 JUN	30 JUN 76	
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	
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 E34	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 E35	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	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	063A	COSMOS E38	8932	USSR	2 JUL	23 AUG 77	
1976	063B		8933	USSR	2 JUL	3 JUL 76	
1976	063C		10047	USSR	2 JUL	13 SEP 77	
1976	063D		10048	USSR	2 JUL	14 AUG 77	
1976	063E		10050	USSR	2 JUL	24 JUL 77	
1976	063F		10051	USSR	2 JUL	1 NOV 77	
1976	063G		10053	USSR	2 JUL	15 NOV 77	
1976	063H		10055	USSR	2 JUL	2 DEC 77	
1976	063I		10056	USSR	2 JUL	3 NOV 77	
1976	063J		10058	USSR	2 JUL	20 SEP 77	
1976	063K		10078	USSR	2 JUL	16 NOV 77	
1976	063L		10079	USSR	2 JUL	3 OCT 77	
1976	063M		10082	USSR	2 JUL	23 SEP 77	
1976	063N		10083	USSR	2 JUL	27 JUL 77	
1976	063O		10098	USSR	2 JUL	23 JUL 77	
1976	063P		10099	USSR	2 JUL	5 SEP 77	
1976	063Q		10100	USSR	2 JUL	29 OCT 77	
1976	063R		10101	USSR	2 JUL	20 SEP 77	
1976	063S		10102	USSR	2 JUL	25 OCT 77	
1976	063T		10105	USSR	2 JUL	17 AUG 77	
1976	063U		10107	USSR	2 JUL	3 SEP 77	
1976	063V		10108	USSR	2 JUL	27 AUG 77	
1976	063W		10109	USSR	2 JUL	22 SEP 77	
1976	063X		10122	USSR	2 JUL	9 NOV 77	
1976	063Y		10123	USSR	2 JUL	18 AUG 77	
1976	063Z		10124	USSR	2 JUL	17 AUG 77	
1976	063AA		10125	USSR	2 JUL	28 JUL 77	
1976	063AB		8934	USSR	6 JUL	24 AUG 76	
1976	063AC		8935	USSR	6 JUL	9 JUL 76	
1976	063AD		9006	US	8 JUL	13 DEC 76	
1976	063AE						
1976	063AF						
1976	063AG						
1976	063AH						
1976	063AI						
1976	063AJ						
1976	063AK						
1976	063AL						
1976	063AM						
1976	063AN						
1976	063AO						
1976	063AP						
1976	063AQ						
1976	063AR						
1976	063AS						
1976	063AT						
1976	063AU						
1976	063AV						
1976	063AW						
1976	063AX						
1976	063AY						
1976	063AZ						
1976	063BA						
1976	063BB						
1976	063BC						
1976	063BD						
1976	063BE						
1976	063BF						
1976	063BG						
1976	063BH						
1976	063BI						
1976	063BJ						
1976	063BK						
1976	063BL						
1976	063BM						
1976	063BN						
1976	063BO						
1976	063BP						
1976	063BQ						
1976	063BR						
1976	063BS						
1976	063BT						
1976	063BU						
1976	063BV						
1976	063BW						
1976	063BX						
1976	063BY						
1976	063BZ						
1976	063CA						
1976	063CB						
1976	063CC						
1976	063CD						
1976	063CE						
1976	063CF						
1976	063CG						
1976	063CH						
1976	063CI						
1976	063CJ						
1976	063CK						
1976	063CL						
1976	063CM						
1976	063CN						
1976	063CO						
1976	063CP						
1976	063CQ						
1976	063CR						
1976	063CS						
1976	063CT						
1976	063CU						
1976	063CV						
1976	063CW						
1976	063CX						
1976	063CY						
1976	063CZ						
1976	063DA						
1976	063DB						
1976	063DC						
1976	063DD						
1976	063DE						
1976	063DF						
1976	063DG						
1976	063DH						
1976	063DI						
1976	063DJ						
1976	063DK						
1976	063DL						
1976	063DM						
1976	063DN						
1976	063DO						
1976	063DP						
1976	063DQ						
1976	063DR						
1976	063DS						
1976	063DT						
1976	063DU						
1976	063DV						
1976	063DW						
1976	063DX						
1976	063DY						
1976	063DZ						
1976	063EA						
1976	063EB						
1976	063EC						
1976	063ED						
1976	063EE						
1976	063EF						
1976	063EG						
1976	063EH						
1976	063EI						
1976	063EJ						
1976	063EK						
1976	063EL						
1976	063EM						
1976	063EN						
1976	063EO						
1976	063EP						
1976	063EQ						
1976	063ER						
1976	063ES						
1976	063ET						
1976	063EU						
1976	063EV						
1976	063EW						
1976	063EX						
1976	063EY						
1976	063EZ						
1976	063FA				</		

INTER-
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DECAYED OBJECTS

1976 LAUNCHES (CONT.)

NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 065D	9010	US	8 JUL	10 JUL 76	
1976 066B	9012	US	8 JUL	10 JUL 76	
1976 068A COSMOS 840	9019	USSR	14 JUL	25 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 - 07 2KJ		USSR	22 JUL	SFF NOTE BC*	BC*
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 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	OK
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	9384	USSR	9 AUG	22 AUG 76	BC*
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 083B	9383	USSR	18 AUG	2 NOV 77	
1976 083C	9407	USSR	18 AUG	16 FEB 77	
1976 084A COSMOS 850	9387	USSR	26 AUG	16 MAY 77	
1976 084B	9388	USSR	26 AUG	14 JAN 77	
1976 084C COSMOS 852	9391	USSR	28 AUG	10 SEP 76	
1976 084D	9392	USSR	28 AUG	2 SEP 76	
1976 084E	9393	USSR	28 AUG	29 AUG 76	
1976 084F	9412	USSR	28 AUG	16 SEP 76	
1976 084G	9413	USSR	28 AUG	11 SEP 76	
1976 084H	9414	USSR	28 AUG	11 SEP 76	
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 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 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	OK
1976 093B	9424	USSR	15 SEP	20 SEP 76	
1976 093C	9425	USSR	15 SEP	16 SEP 76	
1976 094A	9426	USSR	15 SEP	9 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	

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CCNT.)							
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	
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	
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		9637	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		9340	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	
1976	111D		9556	USSR	23 NOV	8 DEC 76	
1976	111E		9556	USSR	23 NOV	11 DEC 76	
1976	111G		9563	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	113B		9562	USSR	26 NOV	27 NOV 76	
1976	114A	COSMOS 869	9564	USSR	29 NOV	17 DEC 76	

DECAYED OBJECTS

INTERNATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 114B		9565	USSR	29 NOV	6 DEC 76	
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		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 119A		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 121A	COSMOS 881	9606	USSR	15 DEC	13 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 124B	- 124U		USSR	17 DEC	SEE NOTE	BE*
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 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 007B		9808	US	6 FEB	6 FEB 77	
1977 008A	SOYUZ 24	9804	USSR	7 FEB	25 FEB 77	
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	25 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 011B		9834	USSR	15 FEB	5 NOV 77	
1977 016A	COSMOS 896	9857	USSR	3 MAR	16 MAR 77	
1977 016B		9858	USSR	3 MAR	4 MAR 77	
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	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
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 018C		9866	US	10 MAR	17 DEC 77	
1977 018D		9867	US	10 MAR	13 OCT 77	
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	USSP	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 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		992E	USSP	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	COSMCS 904	9930	USSP	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	COSMCS 905	9937	USSR	26 APR	26 MAY 77	
1977 030B		9939	USSR	26 APR	1 MAY 77	
1977 030C		9940	USSP	26 APR	14 MAY 77	
1977 030D		10025	USSR	26 APR	26 MAY 77	
1977 032B		9942	USSR	28 APR	15 MAY 77	
1977 032C		9943	USSR	28 APR	15 MAY 77	
1977 033A	COSMOS 907	9944	USSR	5 MAY	16 MAY 77	
1977 033B		9945	USSP	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	COSMCS 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	USSP	23 MAY	24 MAY 77	
1977 040A	COSMOS 912	10021	USSR	26 MAY	5 JUN 77	
1977 040B		10022	USSP	26 MAY	31 MAY 77	
1977 040C		10026	USSP	26 MAY	27 MAY 77	
1977 040D		10035	USSR	26 MAY	12 JUN 77	
1977 040E		10036	USSR	26 MAY	19 JUN 77	
1977 043A	COSMCS 914	10030	USSR	31 MAY	13 JUN 77	
1977 043B		10031	USSP	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		1004E	USSR	31 MAY	2 JUL 77	
1977 045A	COSMCS 915	10038	USSR	8 JUN	21 JUN 77	
1977 045B		10039	USSR	8 JUN	11 JUN 77	
1977 045C		10073	USSR	8 JUN	25 JUN 77	
1977 045D		10074	USSR	8 JUN	23 JUN 77	

ON THE BASIS OF THE
 DATA RECEIVED FROM
 THE USSR AND THE
 UNITED STATES

INTER-
NATIONAL
DESIGNATION

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 045E		10084	USSR	9 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	19 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 050A	COSMOS 918	10065	USSR	17 JUN	19 JUN 77	
1977 050B		10068	USSR	17 JUN	18 JUN 77	
1977 051C		10072	USSR	18 JUN	15 JUL 77	
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	6 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 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 065R W		10245	US	14 JUL	4 NOV 77	
1977 066F		10147	USSR	17 JUL	29 JUL 77	
1977 066C		10148	USSR	17 JUL	24 JUL 77	
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 071B		10160	USSR	23 JUL	26 JUL 77	
1977 071C		10161	USSR	23 JUL	26 JUL 77	
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 075R		10218	US	12 AUG	25 NOV 77	
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		10282	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	

DECAYED OBJECTS

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977	LALNCHES (CCNT.)					
1977	078F	10325	USSR	24 AUG	6 SEP 77	
1977	080E	10298	US	25 AUG	7 DEC 77	
1977	081A	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	10319	USSR	2 SEP	15 SEP 77	
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	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	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	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	092B	10366	USSR	20 SEP	21 SEP 77	
1977	092C	10367	USSR	20 SEP	21 SEP 77	
1977	092D	10368	USSR	20 SEP	21 SEP 77	
1977	093B	10371	USSR	22 SEP	29 SEP 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	097B	10383	USSR	29 SEP	9 OCT 77	
1977	097C	10384	USSR	29 SEP	3 OCT 77	
1977	098A	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	10401	USSR	9 OCT	11 OCT 77	
1977	099B	10402	USSR	9 OCT	11 OCT 77	
1977	100A	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	101A	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	104A	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	10459	USSR	4 DEC	17 DEC 77	
1977	110B	10499	USSR	4 DEC	9 DEC 77	
1977	110D	10522	USSR	4 DEC	20 DEC 77	
1977	110E	10523	USSR	4 DEC	20 DEC 77	
1977	113B	10507	USSR	10 DEC	12 DEC 77	
1977	115A	10510	USSR	12 DEC	24 DEC 77	
1977	115B	10511	USSR	12 DEC	18 DEC 77	
1977	115C	10534	USSR	12 DEC	29 DEC 77	
1977	120B	10530	USSR	20 DEC	26 DEC 77	
1977	121B	10532	USSR	21 DEC	25 DEC 77	
1977	123C	10546	USSR	27 DEC	31 DEC 77	
1977	124C	10543	USSR	27 DEC	31 DEC 77	

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* 23 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1962 B-IOTA 1. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 J* 96 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1964 070A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 K* 167 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 012A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 L* 23 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 088A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 M* ANNOUNCED DECAY ON VENUS.
 N* 14 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.
 P* DEBRIS DISCOVERED IN ORBIT WHICH HAS NOT BEEN IDENTIFIED WITH ANY LAUNCHING OR COUNTRY OF ORIGIN.
 Q* ANNOUNCED THAT SPACECRAFT LANDED ON THE MOON.
 R* 37 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 012A, 1966 012B, AND 1966 012C. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 S* LANDED ON THE MOON.
 T* 53 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 046A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 U* 34 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 059A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 V* 52 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 088A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 W* 40 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 101A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 X* 14 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 104A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 Y* 17 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1967 024A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 Z* ANNOUNCED RE-ENTRY AND RECOVERY OF A MANNED SPACE VEHICLE.
 AA* 16 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1968 025A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 AB* 23 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1968 117A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 AC* A MANNED SPACECRAFT SUCCESSFULLY ORBITED THE MOON AND WAS RECOVERED.
 AD* 22 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.
 AE* A MANNED SPACECRAFT WHICH SUCCESSFULLY ORBITED THE MOON, LANDED MAN ON THE MOON IN THE LUNAR MODULE, AND WAS RECOVERED.
 AF* 21 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1969 064A. THE OBJECT OF THIS SERIES THAT REMAINS IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.
 AG* A MANNED SPACECRAFT WHICH SUCCESSFULLY LANDED ON THE MOON, RETURNED TO GEOCENTRIC ORBIT, THEN WAS DECAYED ON THE SURFACE OF THE MOON.
 AH* A MANNED SPACECRAFT WHICH PASSED AROUND THE MOON AND WAS SUCCESSFULLY RECOVERED.
 AJ* ANNOUNCED THAT SPACECRAFT LANDED ON THE MOON, RETURNED TO EARTH, AND WAS SUCCESSFULLY RECOVERED.
 AK* DEBRIS DISCOVERED IN ORBIT WHICH HAS NOT BEEN IDENTIFIED WITH ANY LAUNCH.
 AL* ANNOUNCED DECAY ON MARS.
 AM* 14 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1971 074A. THE OBJECT OF THIS SERIES THAT REMAINS IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.
 AN* 28 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1971 106A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 AP* 25 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 017A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 AQ* 196 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 021A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 AR* 23 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 027A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.

FOOTNOTES (CONT)

AS* 13 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 075A.
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AT* 19 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1974 074A.
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AU* 18 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1974 104A.
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AV* 18 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975 044A.
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AW* 1975 066A, CARRYING U.S. APOLLO ASTRONAUTS, AND 1975 065A, CARRYING USSR
SOYUZ COSMONAUTS, DOCKED. CREW MEMBERS VISITED EACH OTHER'S SPACECRAFT,
AND WERE SUCCESSFULLY RECOVERED.
LANDED ON MARS.

AX* 76 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975 080A.
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AZ* 62 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975 102A.
THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST
OF OBJECTS IN ORBIT.

BA* 16 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 012A.
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BB* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 037A.
THE OBJECT OF THIS SERIES THAT REMAINS IN ORBIT CAN BE FOUND IN THE LIST
OF OBJECTS IN ORBIT.

BC* 248 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975 072A.
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

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

BE* 18 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 124A.
THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST
OF OBJECTS IN ORBIT.

BNA NO CATALOG NUMBER ASSIGNED.