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COMMITTEE ON THE PEACEFUL USES
OF OUTER SPACE

INFORMATION FURNISHED IN CONFORMITY WITH GENERAL ASSEMBLY
RESOLUTION 1721 B (XVI) BY STATES LAUNCHING OBJECTS INTO
ORBIT OR BEYOND

Letter dated 11 July 1966 from the Deputy Permanent Representative of the
United States addressed to the Secretary-General

In accordance with the provisions of paragraphs 1 and 2 of General Assembly resolution 1721 B (XVI), I enclose a comprehensive report constituting a complete registration of all United States space vehicles in orbit or beyond, together with their orbital characteristics revised as of 31 December 1965. Such a comprehensive report was last submitted by the United States under cover of a letter to the Secretary-General dated 8 November 1965, and similar reports, in addition to the regular twice-monthly registration, will continue to be submitted semi-annually.

(Signed) James M. NABRIT, Jr.

REGISTRATION DATA FOR U. S. SPACE LAUNCHES

As of December 31, 1965

International Designation	Launch Vehicle	Satellite Category	Date of Launch	Nodal Period	Inclination	Apogee (Kilometers)	Perigee (Kilometers)
1958 Alpha 1	Jupiter C	B	1 Feb	103.9	33.18	1540	341
1958 Beta 1	Vanguard	D	17 Mar	138.4	34.26	4326	641
1958 Beta 2	Vanguard	B	17 Mar	134.0	34.24	3934	655
1958 Beta 3	Vanguard	D	17 Mar	132.7	34.20	3826	651
1959 Alpha 1	Vanguard	B	17 Feb	125.4	32.86	3283	547
1959 Alpha 2	Vanguard	D	17 Feb	129.7	32.91	3661	551
1959 Nu 1	Juno II	B	3 Mar	Heliocentric Orbit			
1959 Eta 1	Vanguard	B	18 Sep	129.8	33.33	3715	511
1959 Iota 1	Juno II	B	13 Oct	101.1	50.32	1074	551
1959 Iota 2	Juno II	D	13 Oct	100.9	50.34	1051	550
1960 Alpha 1	Thor Able Star	B	11 Mar	Heliocentric Orbit			
1960 Beta 1	Thor Able Star	D	1 Apr	99.1	48.39	740	690
1960 Beta 2	Thor Able Star	C	1 Apr	99.1	48.39	748	691
1960 Beta 3	Thor Able Star	D	1 Apr	97.9	48.49	695	617
1960 Beta 4	Thor Able Star	D	1 Apr	99.9	48.15	806	698
1960 Gamma 2	Thor Able Star	C	13 Apr	93.5	51.23	548	343
1960 Gamma 4	Thor Able Star	D	13 Apr	96.7	51.26	722	479
1960 Zeta 1	Atlas Agena	A	24 May	94.3	33.04	494	469
1960 Eta 1	Thor Able Star	C	22 Jun	101.6	66.71	1063	609
1960 Eta 2	Thor Able Star	B	22 Jun	101.6	66.71	1059	610

Satellite Category

- A. Development of spaceflight techniques and technology
- B. Space Research and exploration
- C. Practical applications of space based technology
- D. Non-functional objects

Nodal Period in minutes

Inclination to equator in degrees

International Designation	Launch Vehicle	Satellite Category	Date of Launch	Orbital Period	Inclination	(Kilometers)	(Kilometers)
1960 Eta 3	Thor Able Star	D	22 Jun	101.4	66.71	1041	609
1960 Eta 4	Thor Able Star	D	22 Jun	101.5	66.69	1055	609
1960 Eta 5	Thor Able Star	D	22 Jun	101.5	66.69	1051	609
1960 Iota 1	Thor Delta	C	12 Aug	113.5	47.25	1671	1078
1960 Iota 2	Thor Delta	D	12 Aug	118.1	47.23	1684	1503
1960 Iota 3	Thor Delta	D	12 Aug	118.2	47.24	1685	1518
1960 Iota 4	Thor Delta	D	12 Aug	Current Elements not Maintained			
1960 Iota 5	Thor Delta	D	12 Aug	118.4	47.34	1682	1538
1960 Nu 1	Thor Able Star	C	4 Oct	107.0	28.31	1214	961
1960 Nu 2	Thor Able Star	D	4 Oct	106.6	28.24	1206	925
1960 Xi 1	Juno II	B	3 Nov	112.2	50.02	2236	423
1960 Xi 2	Juno II	D	3 Nov	111.7	49.98	2193	420
1960 Xi 3	Juno II	D	3 Nov	108.5	49.38	1919	398
1960 Xi 4	Juno II	D	3 Nov	110.1	50.50	2045	414
1960 Pi 1	Delta	C	23 Nov	98.2	48.53	729	618
1960 Pi 2	Delta	D	23 Nov	98.1	48.50	718	615
1960 Pi 3	Delta	D	23 Nov	98.1	48.52	721	618
1960 Pi 4	Delta	D	23 Nov	98.3	48.52	732	620
1961 Alpha 1	Atlas Agena	A	31 Jan	94.7	97.37	541	467
1961 Alpha 2	Atlas Agena	D	31 Jan	94.6	97.38	534	465
1961 Delta 2	Scout	D	16 Feb	118.5	38.84	2594	633
1961 Delta 3	Scout	D	16 Feb	Current Elements not Maintained			
1961 Kappa 1	Thor Delta	B	25 Mar	Position Uncertain			
1961 Nu 1	Juno II	B	27 Apr	107.9	28.78	1774	484
1961 Omicron 1	Thor Able Star	C	29 Jun	103.8	66.84	1003	877
1961 Omicron 2	Thor Able Star	A	29 Jun	103.8	66.84	1004	877
1961 Omicron-3 203*	Thor Able Star	D	29 Jun				

*200 pieces of space debris associated with 1961 Omicron 1 and 2 have been identified and are still in orbit

International Designation	Launch Vehicle	Satellite Category	Date of Launch	Nodal Period	Inclination (Kilometers) (Kilometers)		
1961 Phe 1	Thor Delta	C	12 Jul	100.4	47.91	814	740
1961 Phe 2	Thor Delta	D	12 Jul	100.3	47.90	805	742
1961 Phe 3	Thor Delta	D	12 Jul	98.8	47.93	792	613
1961 Phe 4	Thor Delta	D	12 Jul	102.0	47.86	931	775
1961 Sigma 1	Atlas Agena	A	12 Jul	161.5	21.25	3542	3350
1961 Sigma 3	Atlas Agena	D	12 Jul	161.1	21.21	3544	3320
1961 Sigma 4	Atlas Agena	D	12 Jul	161.9	21.20	3569	3355
1961 Upsilon 1	Delta	B	16 Aug	Current Elements not Maintained			
1961 A-Delta 1	Atlas Agena	A	21 Oct	166.0	25.67	3752	3501
1961 A-Delta 3	Atlas Agena	D	21 Oct	165.6	25.65	3740	3482
1961 A-Delta 4	Atlas Agena	D	21 Oct	166.4	25.86	3802	3455
1961 A-Eta 1	Thor Able Star	C	15 Nov	105.8	32.42	1113	945
1961 A-Eta 2	Thor Able Star	B	15 Nov	105.8	32.42	1113	948
1961 A-Eta 3	Thor Able Star	D	15 Nov	105.6	32.45	1097	948
1962 Alpha 1	Atlas Agena	B	26 Jan	Heliocentric Orbit			
1962 Alpha 2	Atlas Agena	D	26 Jan	Heliocentric Orbit			
1962 Beta 1	Delta	C	8 Feb	100.4	48.31	839	712
1962 Beta 2	Delta	D	8 Feb	101.4	48.13	941	703
1962 Beta 3	Delta	D	8 Feb	99.5	48.42	760	704
1962 Beta 4	Delta	D	8 Feb	100.3	48.30	837	706
1962 Zeta 1	Thor Delta	B	7 Mar	96.0	32.83	587	546
1962 Zeta 2	Thor Delta	D	7 Mar	96.0	32.83	581	549
1962 Kappa 1	Atlas	B	9 Apr	153.0	56.66	3410	2786
1962 Kappa 3	Atlas	D	9 Apr	152.6	56.65	3367	2799
1962 Kappa 4	Atlas	D	9 Apr	153.3	56.65	3423	2803
1962 Mu 2	Atlas Agena	D	23 Apr	Heliocentric Orbit			
1962 Omicron 1	Delta	B	26 Apr	100.4	53.92	1162	389
1962 Omicron 2	Delta	D	26 Apr	100.2	53.90	1145	390
1962 A-Alpha 1	Thor Delta	C	19 Jun	100.5	53.13	967	595

International Designation	Launch Vehicle	Satellite Category	Date of Launch	Nodal Period	Inclination	Apogee (Kilometers)	Perigee (Kilometers)
1962 A-Alpha 2	Thor Delta	D	19 Jun	100.4	58.14	958	594
1962 A-Alpha 3	Thor Delta	D	19 Jun	101.7	58.19	1077	605
1962 A-Alpha 4	Thor Delta	D	19 Jun	99.1	58.00	858	572
1962 A-Epsilon 1	Thor Delta	C	10 Jul	157.8	44.83	5647	941
1962 A-Epsilon 2	Thor Delta	D	10 Jul	157.6	44.81	5630	944
1962 A-Omicron 1	Blue Scout	A	23 Aug	99.5	98.70	857	618
1962 A-Omicron 2	Blue Scout	D	23 Aug	98.2	98.60	744	605
1962 A-Omicron 3	Blue Scout	D	23 Aug	100.8	98.76	972	621
1962 A-Omicron 4	Blue Scout	D	23 Aug	99.5	98.69	856	617
1962 A-Rho 1	Atlas Agena B	B	27 Aug	Heliocentric Orbit			
1962 A-Rho 2	Atlas Agena B	D	27 Aug	Heliocentric Orbit			
1962 A-Psi 1	Thor Delta	C	18 Sep	98.7	58.30	706	690
1962 A-Psi 2	Thor Delta	D	18 Sep	98.6	58.31	702	687
1962 A-Psi 3	Thor Delta	D	18 Sep	99.4	58.45	775	683
1962 A-Psi 4	Thor Delta	D	18 Sep	98.0	58.21	693	635
1962 B-Alpha 1	Thor Agena B	B	29 Sep	105.5	80.49	1037	1001
1962 B-Alpha 2	Thor Agena B	D	29 Sep	105.4	80.47	1031	999
1962 B-Alpha 3	Thor Agena B	D	29 Sep	105.4	80.51	1024	1001
1962 B-Alpha 4	Thor Agena B	D	29 Sep	105.5	80.44	1039	996
1962 B-Gamma 1	Thor Delta	B	2 Oct	Current Elements not Maintained			
1962 B-Gamma 2	Thor Delta	D	2 Oct	Current Elements not Maintained			
1962 B-Eta 1	Atlas Agena B	B	18 Oct	Heliocentric Orbit			
1962 B-Eta 2	Atlas Agena B	D	18 Oct	Heliocentric Orbit			
1962 B-Kappa 1	Thor Agena	A	26 Oct	121.8	71.36	3321	199
1962 B-Lambda 1	Thor Delta	B	27 Oct	Current Elements not Maintained			
1962 B-Lambda 2	Thor Delta	D	27 Oct	Insufficient Observations			
1962 B-Mu 1	Thor Able Star	B	31 Oct	107.9	50.12	1183	1076
1962 B-Mu 2	Thor Able Star	D	31 Oct	107.6	50.21	1161	1072
1962 B-Tau 1	Thor Agena	A	13 Dec	103.4	70.32	1612	225

- 5 -

International Designation	Launch Vehicle	Satellite Category	Date of Launch	Nodal Period	Inclination	Apogee (Kilometers)	Perigee (Kilometers)	
1962 B-Tau 2	Thor Agena	A	13 Dec	109.6	70.35	2179	234	
1962 B-Tau 4	Thor Agena	A	13 Dec	89.9	70.24	325	190	
1962 B-Tau 5	Thor Agena	A	13 Dec	103.2	70.29	1592	226	
1962 B-Tau 6	Thor Agena	D	13 Dec	108.4	70.34	2064	237	
1962 B-Upsilon 1	Thor Delta	C	13 Dec	185.1	47.53	7435	1323	
1962 B-Upsilon 2	Thor Delta	D	13 Dec	184.8	47.53	7418	1323	
1962 B-Chi 1	Scout	B	16 Dec	104.4	52.07	1167	762	
1962 B-Psi 1	Scout	A	19 Dec	99.1	90.64	735	695	
1962 B-Psi 2	Scout	D	19 Dec	97.6	90.77	722	569	
1962 B-Psi 3	Scout	D	19 Dec	99.1	90.65	733	696	
1962 B-Psi 4	Scout	D	19 Dec	100.2	90.51	832	704	
1963-3A	Thor Agena	A	16 Jan	94.4	81.89	519	459	
1963-4A	Thor Delta	C	14 Feb	Current Elements not Maintained				
1963-4B	Thor Delta	D	14 Feb	Current Elements not Maintained				
1963-5A	Blue Scout	A	19 Feb	97.6	100.48	794	501	
1963-5B	Blue Scout	D	19 Feb	97.7	100.47	795	502	
1963-5C	Blue Scout	D	19 Feb	96.8	100.50	743	467	
1963-5D	Blue Scout	D	19 Feb	98.3	100.48	835	521	
1963-9A	Thor Delta	B	3 Apr	93.1	57.62	601	249	
1963-13A	Thor Delta	C	7 May	225.3	42.75	10804	969	
1963-13B	Thor Delta	D	7 May	225.1	46.77	10788	968	
1963-14A	Atlas Agena	A	9 May	166.4	87.50	3687	3604	
1963-14B	Atlas Agena	A	9 May	166.4	87.36	4177	3114	
1963-14C	Atlas Agena	A	9 May	166.4	87.34	3690	3601	
1963-14D	Atlas Agena	D	9 May	Current Elements not Maintained				
1963-14E	Atlas Agena	D	9 May	166.1	87.35	3653	3610	
1963-14F	Atlas Agena	D	9 May	166.8	87.33	3668	3654	
1963-14G	Atlas Agena	D	9 May	166.4	87.33	3709	3581	
1963-14H	Atlas Agena	D	9 May	166.4	87.33	3675	3615	

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International Designation	Launch Vehicle	Satellite Category	Date of Launch	Nodal Period	Inclination	Apogee (Kilometers)	Perigee (Kilometers)	
1963-22A	Scout	A	16 Jun	99.7	90.01	764	725	
1963-22B	Scout	D	16 Jun	99.7	90.01	758	731	
1963-22C	Scout	D	16 Jun	101.2	90.21	891	742	
1963-22D	Scout	D	16 Jun	98.1	89.80	770	566	
1963-24A	Thor Delta	C	19 Jun	97.4	58.26	651	620	
1963-24B	Thor Delta	D	19 Jun	97.3	58.23	645	616	
1963-24C	Thor Delta	D	19 Jun	97.9	58.41	676	638	
1963-24D	Thor Delta	D	19 Jun	96.9	58.10	646	571	
1963-25B	Thor Agena	A	27 Jun	132.0	82.12	4082	342	
1963-26A	Scout	A	28 Jun	102.0	49.72	1290	415	
1963-27A	Thor Agena	A	29 Jun	94.6	82.30	519	483	
1963-30A	Atlas Agena	A	19 Jul	167.8	88.51	3739	3666	
1963-30B	Atlas Agena	A	19 Jul	166.4	89.48	3966	3299	
1963-30C	Atlas Agena	D	19 Jul	167.5	88.4	3722	3654	
1963-30D	Atlas Agena	A	19 Jul	167.6	98.1	4622	2752	
1963-30E	Atlas Agena	D	19 Jul	166.3	88.4	3788	3651	
1963-31A	Thor Delta	C	26 Jul	1436.0	31.78	35810	35759	
1963-31B	Thor Delta	D	26 Jul	Current Elements not Maintained				
1963-38A	Thor Able Star	D	28 Sep	107.1	89.91	1113	1074	
1963-38B	Thor Able Star	A	28 Sep	107.4	89.91	1136	1075	
1963-38C	Thor Able Star	A	28 Sep	107.3	89.92	1138	1072	
1963-38D	Thor Able Star	D	28 Sep	107.3	89.95	1126	1082	
1963-38E	Thor Able Star	D	28 Sep	107.1	89.95	1113	1072	
1963-39A	Atlas Agena	A	17 Oct	6481.3	37.97	116742	100803	
1963-39B	Atlas Agena	A	17 Oct	Current Elements not Maintained				
1963-39C	Atlas Agena	A	17 Oct	6512.3	37.02	115029	103251	
1963-46A	Thor Delta	B	27 Nov	Current Elements not Maintained				
1963-47A	Atlas Centaur	A	27 Nov	107.8	30.36	1777	469	

- 7 -

International Designation	Launch Vehicle	Satellite Category	Date of Launch	Nodal Period	Inclination	Apogee (Kilometers)	Perigee (Kilometers)
1963-47B	Atlas Centaur	D	27 Nov	107.2	30.05	1614	578
1963-47C	Atlas Centaur	D	27 Nov	107.4	30.06	1635	578
1963-47D	Atlas Centaur	D	27 Nov	108.0	29.92	1659	608
1963-47E	Atlas Centaur	D	27 Nov	108.6	30.45	1746	576
1963-47F	Atlas Centaur	D	27 Nov	108.6	30.46	1753	572
1963-47G	Atlas Centaur	D	27 Nov	107.8	29.99	1647	602
1963-47H	Atlas Centaur	D	27 Nov	105.9	30.41	1591	478
1963-49A	Thor Able Star	D	5 Dec	106.8	89.95	1089	1071
1963-49B	Thor Able Star	A	5 Dec	107.1	89.94	1123	1067
1963-49C	Thor Able Star	A	5 Dec	107.1	89.94	1121	1067
1963-49D	Thor Able Star	D	5 Dec	107.1	89.97	1115	1068
1963-49E	Thor Able Star	D	5 Dec	107.1	89.91	1116	1070
1963-49F	Thor Able Star	D	5 Dec	107.1	89.97	1121	1068
1963-53A	Scout	B	19 Dec	115.1	78.65	2276	647
1963-53B	Scout	D	19 Dec	115.8	78.63	2398	593
1963-53C	Scout	D	19 Dec	115.8	78.61	2375	611
1963-53D	Scout	D	19 Dec	115.8	78.63	2386	604
1963-53E	Scout	D	19 Dec	115.9	78.63	2382	613
1963-53F	Scout	D	19 Dec	115.7	78.64	2363	619
1963-53G	Scout	D	19 Dec	115.8	78.61	2381	602
1963-53H	Scout	D	19 Dec	115.7	78.61	2382	598
1963-54A	Thor Delta	C	21 Dec	99.4	58.53	748	708
1963-54B	Thor Delta	D	21 Dec	99.3	58.55	743	706
1963-54C	Thor Delta	D	21 Dec	101.1	58.50	915	703
1963-54D	Thor Delta	D	21 Dec	97.7	58.55	709	585
1964-1A	Thor Agena	A	11 Jan	103.4	69.93	935	910
1964-1B	Thor Agena	A	11 Jan	103.4	69.92	933	912
1964-1C	Thor Agena	A	11 Jan	103.4	69.92	933	911

International Designation	Launch Vehicle	Satellite Category	Date of Launch	Nodal Period	Inclination	Apogee (Kilometers)	Perigee (Kilometers)
1964-1D	Thor Agena	A	11 Jan	103.4	69.93	937	908
1964-1E	Thor Agena	A	11 Jan	103.5	69.92	934	912
1964-2A	Thor Agena	D	19 Jan	101.3	99.13	847	794
1964-2B	Thor Agena	A	19 Jan	101.3	99.11	835	804
1964-2C	Thor Agena	A	19 Jan	101.3	99.11	835	808
1964-3A	Delta	C	21 Jan	194.7	46.32	7420	2079
1964-3B	Delta	D	21 Jan	194.8	46.35	7419	2086
1964-4A	Thor Agena	C	25 Jan	108.1	81.52	1221	1055
1964-4B	Thor Agena	D	25 Jan	108.9	81.49	1308	1047
1964-4C	Thor Agena	D	25 Jan	108.8	81.49	1308	1041
1964-4D	Thor Agena	D	25 Jan	108.8	81.56	1308	1040
1964-4E	Thor Agena	D	25 Jan	92.9	81.55	564	272
1964-5A	Saturn	A	29 Jan	91.4	31.44	427	239
1964-11A	Thor Agena	A	28 Feb	94.5	82.07	505	489
1964-15A	Scout	B	27 Mar	99.5	51.68	1172	290
1964-15B	Scout	D	27 Mar	98.6	51.71	1092	290
1964-15C	Scout	D	27 Mar	103.1	51.35	1448	379
1964-26A	Scout	A	4 Jun	103.1	90.52	951	860
1964-26B	Scout	D	4 Jun	103.8	90.21	978	906
1964-26C	Scout	D	4 Jun	102.3	90.86	949	787
1964-26D	Scout	D	4 Jun	103.1	90.52	954	856
1964-31A	Thor Agena	A	18 Jun	101.6	99.73	838	830
1964-31B	Thor Agena	A	18 Jun	101.6	99.74	838	832
1964-31C	Thor Agena	D	18 Jun	101.6	99.80	840	828
1964-35A	Thor Agena	A	2 Jul	94.8	82.10	525	494
1964-40A	Atlas Agena	A	17 Jul	6024.8	39.08	104101	102500

International Designation	Launch Vehicle	Satellite Category	Date of Launch	Nodal Period	Inclination	Apogee (Kilometers)	Perigee (Kilometers)
1964-40B	Atlas Agena	A	17 Jul	6004.3	40.75	114000	22103
1964-40C	Atlas Agena	A	17 Jul	Current Elements not Maintained			
1964-41B	Atlas Agena	D	28 Jul	Barycentric Orbit			
1964-45B	Atlas Agena	A	14 Aug	126.2	95.66	3641	271
1964-47A	Thrust-Augmented Delta	C	19 Aug	1436.2	0.10	35792	35784
1964-47B	Thrust-Augmented Delta	D	19 Aug	Current Elements not Maintained			
1964-51A	Scout	B	25 Aug	103.9	79.91	1023	867
1964-51B	Scout	D	35 Aug	103.9	79.91	1014	870
1964-51C	Scout	D	25 Aug	103.2	79.84	975	849
1964-51D	Scout	D	25 Aug	103.3	79.83	1026	808
1964-51E	Scout	D	25 Aug	103.3	79.82	1048	786
1964-52A	Thor Agena	C	28 Aug	98.3	98.63	927	428
1964-52B	Thor Agena	D	28 Aug	98.3	98.70	928	428
1964-54A	Atlas Agena	B	5 Sep	3841.9	40.72	144824	4930
1964-60A	Thor Delta	B	4 Oct	2080.3	33.72	94288	317
1964-63A	Thor Able Star	D	6 Oct	106.3	89.91	1080	1035
1964-63B	Thor Able Star	A	6 Oct	106.6	89.89	1081	1059
1964-63C	Thor Able Star	A	6 Oct	106.6	89.92	1082	1055
1964-63D	Thor Able Star	D	6 Oct	106.6	89.93	1081	1063
1964-63E	Thor Able Star	A	6 Oct	106.6	89.92	1079	1062
1964-63F	Thor Able Star	D	6 Oct	106.6	89.92	1086	1057
1964-64A	Scout	B	10 Oct	104.8	79.73	1081	888
1964-64B	Scout	D	10 Oct	104.7	79.71	1079	888
1964-64C	Scout	D	10 Oct	104.0	79.33	1064	839
1964-64D	Scout	D	10 Oct	105.5	80.06	1124	913

International Designation	Launch Vehicle	Satellite Category	Date of Launch	Nodal Period	Inclination	Apogee (Kilometers)	Perigee (Kilometers)
1964-72A	Thor Agena	A	4 Nov	94.9	82.04	522	509
1964-72B	Thor Agena	D	4 Nov	94.7	82.04	514	500
1964-72C	Thor Agena	D	4 Nov	94.0	82.05	473	464
1964-72D	Thor Agena	D	4 Nov	94.0	82.01	472	467
1964-73A	Atlas Agena	B	5 Nov	Heliocentric Orbit			
1964-74A	Scout	B	6 Nov	99.2	51.99	276	464
1964-76A	Scout	B	21 Nov	115.5	81.42	2361	601
1964-76B	Scout	B	21 Nov	116.2	81.36	2493	531
1964-76C	Scout	D	21 Nov	116.2	81.35	2492	534
1964-76D	Scout	D	21 Nov	116.3	81.37	2487	548
1964-76E	Scout	D	21 Nov	116.2	81.40	2490	535
1964-76F	Scout	D	21 Nov	115.5	81.34	2463	590
1964-76G	Scout	D	21 Nov	116.0	81.37	2474	535
1964-76H	Scout	D	21 Nov	115.1	81.34	2425	594
1964-76I	Scout	D	21 Nov	116.0	81.37	2475	532
1964-76J	Scout	D	21 Nov	116.2	81.34	2471	552
1964-76K	Scout	D	21 Nov	116.4	81.47	2436	605
1964-76L	Scout	D	21 Nov	116.3	81.39	2481	553
1964-77A	Atlas Agena	B	28 Nov	Heliocentric Orbit			
1964-77B	Atlas Agena	D	28 Nov	Heliocentric Orbit			
1964-83A	Thor Able Star	D	13 Dec	106.0	89.97	1067	1020
1963-83B	Thor Able Star	D	13 Dec	106.3	90.00	1086	1027
1964-83C	Thor Able Star	A	13 Dec	106.3	89.96	1087	1027
1964-83D	Thor Able Star	A	13 Dec	106.3	89.98	1091	1024
1964-83E	Thor Able Star	D	13 Dec	106.3	89.97	1086	1028
1964-83F	Thor Able Star	D	13 Dec	106.3	89.98	1090	1023
1964-83G	Thor Able Star	D	13 Dec	106.3	89.99	1083	1031
1964-83H	Thor Able Star	D	13 Dec	106.3	89.99	1089	1026
1964-83J	Thor Able Star	D	13 Dec	106.3	89.99	1085	1028

- 11 -

International Designation	Launch Vehicle	Satellite Category	Date of Launch	Nodal Period	Inclination	Apogee (Kilometers)	Perigee (Kilometers)
1964-86A	Thor Delta	B	21 Dec	451.6	19.85	25936	300
1965-3A	Thor Altair	A	19 Jan	97.6	98.70	831	461
1965-4A	Thor Delta	C	22 Jan	119.2	96.39	2583	706
1965-4B	Thor Delta	D	22 Jan	119.3	96.41	2593	707
1965-4C	Thor Delta	D	22 Jan	118.0	96.36	2516	672
1965-4D	Thor Delta	D	22 Jan	120.4	96.62	2617	781
1965-7A	Thor Delta	B	3 Feb	96.5	32.85	623	552
1965-7B	Thor Delta	D	3 Feb	96.5	32.86	634	548
1965-8A	Titan III	A	11 Feb	145.6	32.13	2800	2778
1965-8B	Titan III	D	11 Feb	145.4	32.14	2796	2760
1965-8C	Titan III	A	11 Feb	145.7	32.13	2807	2778
1965-9A	Saturn	B	16 Feb	97.0	31.75	733	493
1965-9B	Saturn	D	16 Feb	97.1	31.75	733	499
1965-10B	Atlas Agena	D	17 Feb	Barycentric Orbit			
1965-16A	Thor Agena	A	9 Mar	103.5	70.07	942	908
1965-16B	Thor Agena	A	9 Mar	103.5	70.07	942	908
1965-16C	Thor Agena	A	9 Mar	103.5	70.07	942	908
1965-16D	Thor Agena	A	9 Mar	103.5	70.08	942	908
1965-16E	Thor Agena	A	9 Mar	103.5	70.08	940	908
1965-16F	Thor Agena	A	9 Mar	103.5	70.09	939	909
1965-16G	Thor Agena	A	9 Mar	103.5	70.10	942	904
1965-16H	Thor Agena	A	9 Mar	103.5	70.09	940	909
1965-16J	Thor Agena	D	9 Mar	103.5	70.11	942	905
1965-17B	Thor Ablestar	A	11 Mar	97.3	89.98	972	285
1965-17C	Thor Ablestar	A	11 Mar	97.0	89.98	951	279
1965-17D	Thor Ablestar	D	11 Mar	97.0	90.00	947	285

International Designation	Launch Period	Satellite Category	Date of Launch	Nodal Period	Inclination	Apogee (Kilometers)	Perigee (Kilometers)
1965-21A	Thor Altair	A	18 Mar	97.5	98.98	758	527
1965-21C	Thor Altair	D	18 Mar	97.5	99.00	758	527
1965-21E	Thor Altair	D	18 Mar	96.4	98.97	655	523
1965-21F	Thor Altair	D	18 Mar	98.6	99.02	865	523
1965-23B	Atlas Agena	D	21 Mar	Barycentric Orbit			
1965-27A	Atlas Agena	A	3 Apr	111.5	90.21	1319	1275
1965-27B	Atlas Agena	A	3 Apr	111.4	90.20	1315	1275
1965-27C	Atlas Agena	D	3 Apr	111.5	90.22	1317	1275
1965-27D	Atlas Agena	D	3 Apr	111.5	90.19	1316	1279
1965-27E	Atlas Agena	D	3 Apr	111.5	90.21	1326	1269
1965-28A	Thrust-Augmented Delta	C	6 Apr	1437.3	.13	36596	35025
1965-28B	Thrust-Augmented Delta	D	6 Apr	Current Elements not Maintained			
1965-31B	Atlas Agena	A	28 Apr	95.1	95.19	550	499
1965-31G	Atlas Agena	D	28 Apr	93.7	95.17	460	449
1965-32A	Scout	B	29 Apr	107.8	41.17	1314	938
1965-32B	Scout	D	29 Apr	107.8	41.16	1317	933
1965-34A	Titan III	A	6 May	157.0	32.12	3744	2779
1965-34B	Titan III	A	6 May	309.9	32.09	14811	2771
1965-34C	Titan III	A	6 May	145.6	32.13	2800	2775
1965-38A	Thor Altair	A	20 May	100.0	98.58	963	556
1965-38B	Thor Altair	D	20 May	100.0	98.60	967	552
1965-38C	Thor Altair	D	20 May	99.9	98.60	954	560
1965-38D	Thor Altair	D	20 May	98.3	98.84	831	521
1965-38E	Thor Altair	D	20 May	101.0	98.65	1046	555
1965-38F	Thor Altair	D	20 May	98.9	98.59	867	551

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- 13 -

International Designation	Launch Vehicle	Satellite Category	Date of Launch	Nodal Period	Inclination	Apogee (Kilometers)	Perigee (Kilometers)
1965-38G	Thor Altair	D	20 May	100.1	98.60	982	551
1965-39A	Saturn	B	25 May	97.2	31.76	732	509
1965-39B	Saturn	D	25 May	97.2	31.76	739	508
1965-42A	Delta	B	29 May	8558.8	33.86	264247	196
1965-48A	Thor Ablestar	A	24 Jun	106.9	89.97	1142	1029
1965-48B	Thor Ablestar	D	24 Jun	106.9	89.97	1140	1028
1965-48C	Thor Ablestar	D	24 Jun	106.6	89.97	1114	1026
1965-48D	Thor Ablestar	D	24 Jun	106.9	90.00	1142	1030
1965-50A	Atlas Agena	A	25 Jun	94.6	107.65	507	495
1965-51A	Thor Delta	C	Jul 2	100.7	98.60	837	745
1965-51B	Thor Delta	D	Jul 2	100.7	98.64	843	744
1965-51C	Thor Delta	D	Jul 2	99.3	98.51	842	614
1965-51D	Thor Delta	D	Jul 2	102.0	98.72	887	824
1965-55A	Thor Agena	A	Jul 17	94.4	70.19	511	469
1965-55B	Thor Agena	D	Jul 17	93.8	70.15	476	442
1965-55C	Thor Agena	D	Jul 17	94.1	70.18	494	456
1965-55D	Thor Agena	D	Jul 17	94.0	70.16	490	448
1965-55E	Thor Agena	D	Jul 17	93.9	70.16	487	443
1965-58A	Atlas Agena	A	Jul 20	6679.0	35.34	115839	106367
1965-58B	Atlas Agena	A	Jul 20	6712.7	34.22	121281	101715
1965-58C	Atlas Agena	A	Jul 20	2595.4	36.88	111793	566
1965-60A	Saturn I	B	Jul 30	95.1	28.87	533	514
1965-60B	Saturn I	D	Jul 30	95.2	28.87	534	519
1965-62B	Atlas Agena	A	Aug 3	94.7	107.35	507	503
1965-63A	Scout	B	Aug 10	122.2	69.25	2425	1137
1965-63B	Scout	D	Aug 10	122.2	69.26	2425	1138
1965-64A	Atlas Centaur	A	Aug 11	Current Elements not Maintained			
1965-65A	Thor Ablestar	A	Aug 13	108.1	90.03	1192	1089
1965-65B	Thor Ablestar	D	Aug 13	107.9	90.01	1159	1102
1965-65C	Thor Ablestar	A	Aug 13	108.1	90.01	1192	1086

International Designation	Launch Vehicle	Satellite Category	Date of Launch	Nodal Period	Inclination	Apogee (Kilometers)	Perigee (Kilometers)
1965-65D	Thor Ablestar	A	Aug 13	108.1	90.05	1194	1086
1965-65E	Thor Ablestar	A	Aug 13	108.1	90.00	1192	1089
1965-65F	Thor Ablestar	A	Aug 13	108.1	90.04	1195	1088
1965-65G	Thor Ablestar	A	Aug 13	108.1	90.01	1188	1089
1965-65H	Thor Ablestar	D	Aug 13	108.1	90.04	1197	1085
1965-65J	Thor Ablestar	D	Aug 13	108.1	90.02	1189	1092
1965-65K	Thor Ablestar	D	Aug 13	108.1	90.04	1201	1082
1965-65L	Thor Ablestar	D	Aug 13	108.1	90.05	1197	1085
1965-72A	Thor Altair	A	Sep 10	101.9	98.63	1053	651
1965-72B	Thor Altair	D	Sep 10	101.6	98.75	1033	638
1965-72C	Thor Altair	D	Sep 10	101.6	98.66	1039	625
1965-72D	Thor Altair	D	Sep 10	101.9	98.64	1055	649
1965-78A	Atlas D	A	Oct 5	125.7	144.30	3451	413
1965-78B	Atlas D	D	Oct 5	125.6	144.30	3448	411
1965-81A	Thor Agena	B	Oct 14	104.4	87.37	1513	419
1965-81B	Thor Agena	D	Oct 14	104.3	87.38	1506	420
1965-82A	Titan III C	A	Oct 15	100.0	32.31	784	729
1965-82B-ET*	Titan III C	D	Oct 15				
1965-89A	Thrust Augmented Improved Delta	B	Nov 6	120.3	59.40	2275	1116
1965-89B	Thrust Augmented Improved Delta	D	Nov 6	120.3	59.37	2276	1114
1965-93A	Scout	B	Nov 19	100.8	59.76	904	690
1965-93B	Scout	D	Nov 19	100.8	59.74	881	708
1965-98A	Thor Agena	B	Nov 29	121.4	79.83	2987	505
1965-98B	Thor Agena	B	Nov 29	121.3	79.84	2977	506
1965-98C	Thor Agena	D	Nov 29	121.3	79.86	2983	502

*137 pieces of debris have been identified as associated with 1965-82A

- 15 -

International Designation	Launch Vehicle	Satellite Category	Date of Launch	Nodal Period	Inclination (Kilometers)	Apogee (Kilometers)	Perigee (Kilometers)
1965-98D	Thor Agena	D	Nov 29	121.4	79.86	2985	501
1965-100C	Titan II	D	Dec 4	90.2	28.90	296	262
1965-101A	Scout	B	Dec 6	99.9	75.88	762	746
1965-101B	Scout	D	Dec 6	100.0	75.87	769	753
1965-105A	Thrust Augmented Improved Delta	B	Dec 16	Heliocentric Orbit			
1965-105B	Thrust Augmented Improved Delta	D	Dec 16	100.4	30.18	1273	273
1965-108A	Titan III C	A	Dec 21	589.7	26.38	33640	177
1965-108B	Titan III C	A	Dec 21	589.6	26.60	33620	200
1965-109A	Scout	A	Dec 22	105.0	89.11	1087	908
1965-109B	Scout	D	Dec 22	105.0	89.10	1081	913
1965-110A	Thor Agena	A	Dec 24	90.7	80.01	433	181