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SPACE OPERATIONS CONTROL CENTER

SATELLITE SITUATION REPORT

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GREENBELT, MD.

SPACE OPERATIONS CONTROL CENTER
GODDARD SPACE FLIGHT CENTER
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

VOLUME 3 NO. 4 FEBRUARY 13, 1963

SATELLITE SITUATION REPORT

THE FOLLOWING REPORT REFLECTS DATA COMPUTED AND COMPILED BY THE GODDARD SPACE FLIGHT CENTER, NORAD, AND SMITHSONIAN ASTROPHYSICAL OBSERVATORY AS OF 1430Z ON FEBRUARY 13, 1963.

OBJECTS IN ORBIT

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1958 LAUNCHES								
ALPHA 1	EXPLORER 1	US	1 FEB	105.1	33.19	1680	333	
BETA 1	ROCKET BODY	US	17 MAR	138.3	34.23	4357	619	
BETA 2	VANGUARD 1	US	17 MAR	133.8	34.25	3957	633	108.024
1959 LAUNCHES								
ALPHA 1	VANGUARD 2	US	17 FEB	125.3	32.86	3284	563	
ALPHA 2	ROCKET BODY	US	17 FEB	129.5	32.90	3662	552	
ETA 1	VANGUARD 3	US	18 SEP	129.7	33.32	3733	502	
MU 1*	LUNIK 1	USSR	2 JAN	450D	0.01	1.315AU	0.9766AU	
NU 1*	PIONEER 4	US	3 MAR	398D	1.30	1.142AU	0.9871AU	
IOTA 1	EXPLORER 7	US	13 OCT	101.1	50.29	1082	545	
IOTA 2	ROCKET BODY	US	13 OCT	100.9	50.28	1062	545	
1960 LAUNCHES								
ALPHA 1*	PIONEER 5	US	11 MAR	312D	3.35	0.995AU	0.8061AU	
BETA 1	ROCKET BODY	US	1 APR	99.1	48.36	751	683	
BETA 2	TIROS 1	US	1 APR	99.1	48.36	757	684	
BETA 3	NONE	US	1 APR	97.8	48.36	706	610	
BETA 4	NONE	US	1 APR	99.8	48.16	813	694	
GAMMA 2	TRANSIT 1B	US	13 APR	94.3	51.22	634	341	
GAMMA 4	NONE	US	13 APR	96.7	51.25	731	479	
EPSILON 3	NONE	USSR	15 MAY	92.3	64.98	502	272	
ZETA 1	MIDAS 2	US	24 MAY	94.2	33.04	530	445	
ETA 1	TRANSIT 2A	US	22 JUN	101.6	66.71	1059	612	
ETA 2	GREB	US	22 JUN	101.6	66.71	1057	610	
ETA 3	ROCKET BODY	US	22 JUN	101.4	66.68	1037	613	
IOTA 1	ECHO 1	US	12 AUG	115.4	47.29	1749	1208	
IOTA 2	ROCKET BODY	US	12 AUG	118.0	47.21	1681	1507	
IOTA 3	METAL OBJECT	US	12 AUG	118.2	47.22	1674	1529	
IOTA 4	METAL OBJECT	US	12 AUG	INSUFFICIENT OBSERVATIONS				
IOTA 5	METAL OBJECT	US	12 AUG	118.3	47.29	1678	1542	

OBJECTS IN ORBIT

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCL-NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1960 LAUNCHES								
NU 1	COURIER 1B	US	4 OCT	106.9	28.38	1200	979	
NU 2	ROCKET BODY	US	4 OCT	106.4	28.23	1224	912	
XI 1	EXPLORER 8	US	3 NOV	112.3	49.94	2264	409	
XI 2	ROCKET BODY	US	3 NOV	112.0	49.94	2213	431	
XI 3	NONE	US	3 NOV	110.0	49.36	2064	399	
XI 4	NONE	US	3 NOV	111.0	50.44	2134	413	
PI 1	TIROS 2	US	23 NOV	98.2	48.50	745	604	
PI 2	ROCKET BODY	US	23 NOV	98.1	48.48	738	601	
PI 3	NONE	US	23 NOV	98.1	48.52	728	615	
PI 4	NONE	US	23 NOV	98.2	48.49	722	634	
1961 LAUNCHES								
ALPHA 1	SAMOS 2	US	31 JAN	94.8	97.42	542	472	
ALPHA 2	METAL OBJECT	US	31 JAN	94.8	97.43	537	472	
GAMMA 1*	VENUS PROBE	USSR	12 FEB	300D	0.58	1.0190AU	0.7183AU	
DELTA 1	EXPLORER 9	US	16 FEB	117.3	38.89	2499	634	
DELTA 2	ROCKET BODY	US	16 FEB	118.4	38.76	2573	659	
DELTA 3	NONE	US	16 FEB	INSUFFICIENT OBSERVATIONS				
KAPPA 1	EXPLORER 10	US	25 MAR	POSITION UNCERTAIN				
NU 1	EXPLORER 11	US	27 APR	107.9	28.82	1782	490	
OMICRON 1	TRANSIT 4B	US	29 JUN	103.8	66.81	996	882	54;150;324;400
OMICRON 2	INJUN-SR-3	US	29 JUN	103.8	66.82	997	882	136.5
OMICRON 3-164**	METAL OBJECTS	US	29 JUN					
RHO 1	TIROS 3	US	12 JUL	100.3	47.88	808	748	
RHO 2	ROCKET BODY	US	12 JUL	100.3	47.88	798	753	
RHO 3	METAL OBJECT	US	12 JUL	98.8	47.92	792	617	
RHO 4	METAL OBJECT	US	12 JUL	101.9	47.86	936	772	
SIGMA 1	MIDAS 3	US	12 JUL	161.5	91.21	3590	3299	
SIGMA 3	METAL OBJECT	US	12 JUL	161.2	91.16	3554	3307	
SIGMA 4	METAL OBJECT	US	12 JUL	161.9	91.21	3577	3345	
UPSILON 1	EXPLORER 12	US	16 AUG	INSUFFICIENT OBSERVATIONS				
A DELTA 1	MIDAS 4	US	21 OCT	166.0	95.86	3770	3482	

OBJECTS IN ORBIT

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCL-NATION	APGOEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1961 LAUNCHES								
A DELTA 3	METAL OBJECT	US	21 OCT	165.6	95.85	3717	3502	
A DELTA 4	METAL OBJECT	US	21 OCT	166.4	95.87	3770	3515	
A ETA 1	TRANSIT 4B	US	15 NOV	105.6	32.43	1099	963	
A ETA 2	TRAAC	US	15 NOV	105.6	32.43	1129	934	
A ETA 3	ROCKET BODY	US	15 NOV	105.5	32.43	1084	965	
1962 LAUNCHES								
ALPHA 1*	RANGER 3	US	26 JAN	406.4D	.3988	1.163AU	0.9839AU	
ALPHA 2	ROCKET BODY	US	26 JAN	INSUFFICIENT OBSERVATIONS				
BETA 1	TIROS 4	US	8 FEB	100.3	48.29	839	714	136.23;136.92
BETA 2	ROCKET BODY	US	8 FEB	101.3	48.14	938	708	
BETA 3	METAL OBJECT	US	8 FEB	99.4	48.41	767	700	
BETA 4	METAL OBJECT	US	8 FEB	100.2	48.30	819	727	
ZETA 1	ORB. SOL.OBS. 1	US	7 MAR	95.9	32.86	641	499	136.744
ZETA 2	ROCKET BODY	US	7 MAR	95.9	32.84	598	546	
ETA 1		US	7 MAR	91.3	90.89	427	239	
IOTA 1	COSMOS 2	USSR	6 APR	96.0	48.95	930	207	
KAPPA 1		US	9 APR	153.0	86.67	3414	2780	
KAPPA 3		US	9 APR	152.7	86.65	3373	2790	
KAPPA 4		US	9 APR	153.4	86.67	3435	2788	
MU 2	ROCKET BODY	US	23 APR	INSUFFICIENT OBSERVATIONS				
OMICRON 1	ARIEL	US/UK	26 APR	100.7	53.83	1205	383	136.408
OMICRON 2	ROCKET BODY	US/UK	26 APR	100.7	53.83	1210	376	
SIGMA 1		US	15 MAY	92.7	82.33	520	288	
UPSILON 1	COSMOS 5	USSR	28 MAY	94.5	48.96	823	178	
OMEGA 1		US	18 JUN	91.7	82.13	357	353	
A ALPHA 1	TIROS 5	US	19 JUN	100.5	58.08	976	587	136.235;136.922
A ALPHA 2	ROCKET BODY	US	19 JUN	100.4	58.10	966	590	
A ALPHA 3	METAL OBJECT	US	19 JUN	101.7	58.21	1092	591	
A ALPHA 4	METAL OBJECT	US	19 JUN	99.1	57.98	852	581	
A EPSILON 1	TELSTAR 1	US	10 JUL	157.7	44.80	5638	950	136.05
A EPSILON 2	ROCKET BODY	US	10 JUL	157.5	44.80	5641	9933	

OBJECTS IN ORBIT

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1962 LAUNCHES								
A XI 1	COSMOS 8	USSR	18 AUG	91.7	48.96	479	240	
A OMICRON 1		US	23 AUG	99.6	98.63	858	614	
A OMICRON 2		US	23 AUG	98.3	98.65	751	602	
A OMICRON 3		US	23 AUG	100.9	98.62	950	645	
A OMICRON 4		US	23 AUG	99.6	98.63	859	614	
A RHO 1*		US	27 AUG	348D	1.66	1.229AU	0.7046AU	
A RHO 2		US	27 AUG					
A UPSILON 1		US	1 SEP	93.8	82.82	630	290	
A PSI 1		US	18 SEP	98.7	58.29	703	694	136.235;136.922
A PSI 2	ROCKET BODY	US	18 SEP	98.7	58.28	714	677	
A PSI 3	METAL OBJECT	US	18 SEP	99.4	58.41	758	701	
A PSI 4	METAL OBJECT	US	29 SEP	98.0	58.19	701	630	
B ALPHA 1	ALOUETTE	CANADA	29 SEP	105.5	80.48	1040	993	136.979
B ALPHA 2	ROCKET BODY	US	29 SEP	105.5	80.48	1033	995	
B ALPHA 3	METAL OBJECT	US	29 SEP	105.4	80.46	1033	990	
B ALPHA 4	METAL OBJECT	US	29 SEP	105.5	80.45	1041	992	
B GAMMA 1	EXPLORER 14	US	2 OCT	2184.6	36.73	97972	817	136.44
B GAMMA 2	ROCKET BODY	US	2 OCT	INSUFFICIENT OBSERVATIONS				
B ETA 1	RANGER 5	US	18 OCT	370D	.44422	1.0681AU	0.9498AU	
B ETA 2	ROCKET BODY	US	18 OCT					
B KAPPA 1		US	26 OCT	145.7	71.38	5387	198	
B LAMBDA 1	EXPLORER 15	US	27 OCT	314.9	18.00	17603	321	136.101
B LAMBDA 2	ROCKET BODY	US	27 OCT	INSUFFICIENT OBSERVATIONS				
B MU 1	ANNA 1B	US	31 OCT	107.8	50.13	1188	1072	54;162;216,324
B MU 2	ROCKET BODY	US	31 OCT	107.5	50.13	1179	1053	
B TAU 1		US	13 DEC	115.7	70.33	2735	233	
B TAU 2	INJUN 3	US	13 DEC	116.0	70.33	2763	235	
B TAU 3		US	13 DEC	111.0	70.31	2309	231	
B TAU 4		US	13 DEC	115.3	70.35	2705	229	
B TAU 5		US	13 DEC	115.6	70.34	2735	231	
B TAU 6		US	13 DEC	115.9	70.36	2756	238	
B UPSILON 1	RELAY 1	US	13 DEC	185.0	47.50	7437	1322	136.140;136.620
B UPSILON 2	ROCKET BODY	US	13 DEC	184.8	47.45	7397	1345	

OBJECTS IN ORBIT

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1962 LAUNCHES								
B CHI 1	EXPLORER 16	US	16 DEC	104.3	51.99	1174	756	136.858
B PSI 1	TRANSIT 5A	US	19 DEC	99.2	90.63	730	701	150;400
B PSI 2		US	19 DEC	97.9	90.75	737	577	
B PSI 3		US	19 DEC	99.2	90.63	729	701	
B PSI 4		US	19 DEC	100.3	90.49	838	702	

* APHELION, PERIHELION IN ASTRONOMICAL UNITS, INCLINATION TO ECLIPTIC.

** ONE HUNDRED AND SIXTY TWO METAL OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1961 OMICRON 1 AND 1961 OMICRON 2. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LISTS.

1963 LAUNCHES

NO NASA LAUNCHES