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SPACE OPERATIONS CONTROL CENTER
GODDARD SPACE FLIGHT CENTER
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GREENBELT, MARYLAND

VOLUME 2, NO. 7 MARCH 27, 1962

SATELLITE SITUATION REPORT

THE FOLLOWING REPORT REFLECTS DATA COMPUTED AND COMPILED BY GODDARD SPACE FLIGHT CENTER, NORAD, AND SMITHSONIAN ASTROPHYSICAL OBSERVATORY AS OF 1200Z ON MARCH 27, 1962.

(NASA TM X-50202)

OTS PRICE

XEROX $ 1.10 ph

MICROFILM $ 0.80 mf.

RALPH R. STROBLE
HEAD, OPERATIONS BRANCH

TMX -50,202

OBJECTS IN ORBIT

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1958 ALPHA 1	EXPLORER I	US	1 FEB 58	105.9	33.21	1731	353	
1958 BETA 1	ROCKET BODY	US	17 MAR 58	138.3	34.25	4312	658	
1958 BETA 2	VANGUARD I	US	17 MAR 58	133.8	34.25	3945	643	108.024
1959 ALPHA 1	VANGUARD II	US	17 FEB 59	125.4	32.87	3284	568	
1959 ALPHA 2	ROCKET BODY	US	17 FEB 59	129.6	32.91	3656	569	
1959 ETA 1	VANGUARD III	US	18 SEP 59	129.8	33.36	3754	487	
1959 MU*	LUNIK I	USSR	2 JAN 59	450D	0.01	1.3156AU	0.9766AU	
1959 NU*	PIONEER IV	US	3 MAR 59	398D	0.127	1.1421AU	0.9871AU	
1959 IOTA 1	EXPLORER VII	US	13 OCT 59	101.1	50.30	1070	559	19.9907
1959 IOTA 2	ROCKET BODY	US	13 OCT 59	100.9	50.31	1054	556	
1960 ALPHA 1*	PIONEER V	US	11 MAR 60	311.6D	3.35	.9951AU	.8061AU	
1960 BETA 1	ROCKET BODY	US	1 APR 60	99.1	48.39	740	696	
1960 BETA 2	TIROS I	US	1 APR 60	99.1	48.40	746	696	
1960 BETA 3	NONE	US	1 APR 60	97.8	48.53	705	613	
1960 BETA 4	NONE	US	1 APR 60	99.8	48.17	807	701	
1960 GAMMA 2	TRANSIT 1B	US	13 APR 60	94.6	51.28	648	359	
1960 GAMMA 4	NONE	US	13 APR 60	96.8	51.26	740	476	
1960 EPSILON 1	SPUTNIK IV	USSR	15 MAY 60	91.0	64.98	387	259	
1960 EPSILON 3	NONE	USSR	15 MAY 60	92.8	64.97	545	279	
1960 ZETA 1	MIDAS II	US	24 MAY 60	94.2	33.03	506	473	
1960 ETA 1	TRANSIT 2A	US	22 JUN 60	101.6	66.70	1049	622	162;216
1960 ETA 2	GREB	US	22 JUN 60	101.6	66.70	1047	622	
1960 ETA 3	ROCKET BODY	US	22 JUN 60	101.4	66.67	1031	620	
1960 IOTA 1	ECHO I	US	12 AUG 60	116.2	47.21	1767	1261	
1960 IOTA 2	ROCKET BODY	US	12 AUG 60	118.0	47.23	1679	1509	
1960 IOTA 3	METAL OBJECT	US	12 AUG 60	118.2	47.22	1683	1521	
1960 IOTA 4	METAL OBJECT	US	12 AUG 60	118.2	47.23	1723	1484	
1960 IOTA 5	METAL OBJECT	US	12 AUG 60	118.3	47.26	1680	1539	
1960 NU 1	COURIER 1B	US	4 OCT 60	106.8	28.30	1216	962	107.9709
1960 NU 2	ROCKET BODY	US	4 OCT 60	106.4	28.18	1214	921	
1960 XI 1	EXPLORER VIII	US	3 NOV 60	112.4	49.95	2272	413	
1960 XI 2	ROCKET BODY	US	3 NOV 60	112.2	49.94	2253	409	
1960 XI 3	NONE	US	3 NOV 60	110.7	49.39	2129	398	
1960 XI 4	NONE	US	3 NOV 60	111.6	50.50	2183	424	

OBJECTS IN ORBIT (CONT'D)

OBJECT	CODE NAME	SOURCES	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1960 PI 1	TIROS II	US	23 NOV 60	98.2	48.50	731	619	
1960 PI 2	ROCKET BODY	US	23 NOV 60	98.1	48.53	727	613	
1960 PI 3	NONE	US	23 NOV 60	98.1	48.53	727	618	
1960 PI 4	NONE	US	23 NOV 60	98.3	48.51	737	620	
1961 ALPHA 1	SAMOS II	US	31 JAN 61	94.9	97.37	548	472	
1961 ALPHA 2	METAL OBJECT	US	31 JAN 61	94.8	97.37	546	470	
1961 GAMMA 1*	VENUS PROBE	USSR	12 FEB 61	300D	0.581	1.0190AU	0.7183AU	
1961 DELTA 1	EXPLORER IX	US	16 FEB 61	118.0	38.81	2427	764	
1961 DELTA 2	ROCKET BODY	US	16 FEB 61	118.4	38.86	2589	640	
1961 DELTA 3	NONE	US	16 FEB 61	118.1	38.87	2503	705	
1961 EPSILON 1	DISCOVERER XX	US	17 FEB 61	92.2	80.84	484	272	
1961 ZETA 1	DISCOVERER XXI	US	18 FEB 61	90.9	80.64	412	218	
1961 KAPPA 1	EXPLORER X	US	25 MAR 61	POSITION UNCERTAIN				
1961 LAMBDA 1	DISCOVERER XXIII	US	8 APR 61	90.2	82.23	318	243	
1961 LAMBDA 2	CAPSULE	US	8 APR 61	93.0	81.88	649	190	
1961 NU 1	EXPLORER XI	US	27 APR 61	107.9	28.80	1785	487	
1961 OMICRON 1	TRANSIT 4A	US	29 JUN 61	103.8	66.81	994	884	54;150;324;400
1961 OMICRON 2	INJUN-SR-3	US	29 JUN 61	103.8	66.83	996	883	136.5
1961 OMICRON 3-45**	METAL OBJECTS	US	29 JUN 61					
1961 OMICRON 47-85**	METAL OBJECTS	US	29 JUN 61					
1961 RHO 1	TIROS III	US	12 JUL 61	100.3	47.91	819	737	
1961 RHO 2	ROCKET BODY	US	12 JUL 61	100.3	47.90	812	740	
1961 RHO 3	METAL OBJECT	US	12 JUL 61	98.8	47.94	793	617	
1961 RHO 4	METAL OBJECT	US	12 JUL 61	101.9	47.87	935	773	
1961 SIGMA 1	MIDAS III	US	12 JUL 61	161.5	91.15	3538	3352	
1961 SIGMA 3	METAL OBJECT	US	12 JUL 61	161.2	90.85	3627	3234	
1961 SIGMA 4	METAL OBJECT	US	12 JUL 61	161.9	91.14	3557	3365	
1961 UPSILON 1	EXPLORER XII	US	16 AUG 61	1589.7	33.86	76715	796	
1961 ALPHA DELTA 1	MIDAS IV	US	21 OCT 61	166.0	95.65	3720	3532	
1961 ALPHA DELTA 3	METAL OBJECT	US	21 OCT 61	165.6	95.85	4147	3137	
1961 ALPHA DELTA 4	METAL OBJECT	US	21 OCT 61	166.4	95.06	3772	3513	
1961 ALPHA EPSILON 1	DISCOVERER XXXIV	US	5 NOV 61	95.5	82.44	848	228	

OBJECTS IN ORBIT (CONT'D)

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1961 ALPHA ETA 1	TRANSIT IV-B	US	15 NOV 61	105.6	32.42	1110	952	136.8;54;324;150;400
1961 ALPHA ETA 2	TRACC	US	15 NOV 61	105.6	32.41	1108	956	136.65;54;324
1961 ALPHA ETA 3	ROCKET BODY	US	15 NOV 61	105.5	32.42	1107	942	
1961 ALPHA LAMBDA 1	NONE	US	22 DEC 61	93.8	89.62	690	222	
1962 ALPHA 1	RANGER III	US	26 JAN 62	406.4D	.3988	1.163AU	0.9839AU	
1962 ALPHA 2	ROCKET BODY	US	26 JAN 62	HELIOCENTRIC ORBIT				
1962 BETA 1	TIROS IV	US	8 FEB 62	100.3	48.29	838	715	136.23;136.92
1962 BETA 2	ROCKET BODY	US	8 FEB 62	101.3	48.16	938	712	
1962 BETA 3	METAL OBJECT	US	8 FEB 62	99.4	48.42	757	711	
1962 BETA 4	METAL OBJECT	US	8 FEB 62	100.2	48.30	836	712	
1962 ZETA 1	ORB. SOL. OBS. 1	US	7 MAR 62	95.9	32.84	583	559	136.744
1962 ZETA 2	ROCKET BODY	US	7 MAR 62	96.0	32.82	592	557	
1962 ETA 1	NONE	US	7 MAR 62	93.8	90.85	678	235	
1962 ETA 2	NONE	US	7 MAR 62	89.2	90.79	249	211	
1962 ETA 3	NONE	US	7 MAR 62	93.7	90.86	674	234	
1962 THETA 1	SPUTNIK XI	USSR	16 MAR 62	95.4	48.99	872	212	
1962 THETA 2	ROCKET BODY	USSR	16 MAR 62	95.7	49.01	899	209	

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

PLEASE ADD THE FOLLOWING TO THE DECAYED OBJECTS LIST:

OBJECT	CODE NAME	SOURCE	LAUNCH	DECAY
1962 EPSILON 1	DISCOVERER XXXVIII	US	27 FEB 62	21 MAR 62