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SPACE OPERATIONS CONTROL CENTER

SATELLITE SITUATION REPORT

VOL. 2, NO. 19

PREPARED BY

OPERATIONS BRANCH

OPERATIONS AND SUPPORT DIVISION

NOVEMBER 21, 1962

GODDARD SPACE FLIGHT CENTER

GREENBELT, MD.

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

VOLUME 2, NO. 19 NOVEMBER 21, 1962

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 NOVEMBER 21, 1962

RALPH R. STROBLE
HEAD, OPERATIONS BRANCH

TMX-50,146

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	105.3	33.19	1679	356	
BETA 1	ROCKET BODY	US	17 MAR	138.3	34.28	4312	663	
BETA 2	VANGUARD 1	US	17 MAR	133.8	34.24	3934	657	108.024
1959 LAUNCHES								
ALPHA 1	VANGUARD 2	US	17 FEB	125.2	32.86	3282	560	
ALPHA 2	ROCKET BODY	US	17 FEB	129.5	32.90	3626	593	
ETA 1	VANGUARD 3	US	18 SEP	129.7	33.34	3703	534	
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	50.30	1059	569	
IOTA 2	ROCKET BODY	US	13 OCT	100.9	50.27	1069	540	
1960 LAUNCHES								
ALPHA 1*	PIONEER 5	US	11 MAR	311.6D	3.35	0.995AU	0.8061AU	
BETA 1	ROCKET BODY	US	1 APR	99.1	48.34	762	673	
BETA 2	TIROS 1	US	1 APR	99.1	48.37	759	681	
BETA 3	NONE	US	1 APR	97.8	48.48	706	610	
BETA 4	NONE	US	1 APR	99.8	48.16	812	695	
GAMMA 2	TRANSIT 1B	US	13 APR	94.3	51.21	634	347	
GAMMA 4	NONE	US	13 APR	96.7	51.24	723	488	
EPSILON 3	NONE	USSR	15 MAY	92.4	65.00	513	272	
ZETA 1	MIDAS 2	US	24 MAY	94.2	33.04	522	453	
ETA 1	TRANSIT 2A	US	22 JUN	101.6	66.69	1063	607	
ETA 2	GREB	US	22 JUN	101.6	66.69	1062	607	
ETA 3	ROCKET BODY	US	22 JUN	101.4	66.66	1043	607	
IOTA 1	ECHO 1	US	12 AUG	115.4	47.31	2005	947	
IOTA 2	ROCKET BODY	US	12 AUG	118.0	47.24	1680	1508	
IOTA 3	METAL OBJECT	US	12 AUG	118.2	47.19	1712	1492	
IOTA 4	METAL OBJECT	US	12 AUG	118.2	47.15	1714	1491	
IOTA 5	METAL OBJECT	US	12 AUG	118.3	47.26	1663	1557	

OBJECTS IN ORBIT (CONT'D)

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1960 LAUNCHES (CONT'D)								
NU 1	COURIER 1B	US	4 OCT	106.9	28.39	1224	955	
NU 2	ROCKET BODY	US	4 OCT	106.4	28.29	1242	894	
XI 1	EXPLORER 8	US	3 NOV	112.4	49.95	2258	421	
XI 2	ROCKET BODY	US	3 NOV	112.1	49.94	2220	431	
XI 3	NONE	US	3 NOV	110.2	49.31	2080	395	
XI 4	NONE	US	3 NOV	111.1	50.53	2133	428	
PI 1	TIROS 2	US	23 NOV	98.2	48.48	755	594	
PI 2	ROCKET BODY	US	23 NOV	98.1	48.51	714	625	
PI 3	NONE	US	23 NOV	98.1	48.49	699	645	
PI 4	NONE	US	23 NOV	98.2	48.46	716	641	
1961 LAUNCHES								
ALPHA 1	SAMOS 2	US	31 JAN	94.8	97.42	553	462	
ALPHA 2	METAL OBJECT	US	31 JAN	94.8	97.43	541	469	
GAMMA 1*	VENUS PROBE	USSR	12 FEB	300D	0.58	1.0190AU	0.7183AU	
DELTA 1	EXPLORER 9	US	16 FEB	117.5	38.84	2470	683	
DELTA 2	ROCKET BODY	US	16 FEB	118.4	38.80	2580	652	
DELTA 3	NONE	US	16 FEB	INSUFFICIENT OBSERVATIONS				
KAPPA 1	EXPLORER 10	US	25 MAR	POSITION UNCERTAIN				
NU 1	EXPLORER 11	US	27 APR	107.8	28.83	1777	490	
OMICRON 1	TRANSIT 4A	US	29 JUN	103.8	66.81	999	879	54;150;324;400
OMICRON 2	INJUN-SR-3	US	29 JUN	103.8	66.82	1001	878	136.5
OMICRON 3-159**	METAL OBJECTS	US	29 JUN					
RHO 1	TIROS 3	US	12 JUL	100.3	47.87	792	763	
RHO 2	ROCKET BODY	US	12 JUL	100.3	47.86	823	728	
RHO 3	METAL OBJECT	US	12 JUL	98.8	47.93	792	617	
RHO 4	METAL OBJECT	US	12 JUL	101.9	47.83	942	766	
SIGMA 1	MIDAS 3	US	12 JUL	161.5	91.18	3545	3344	
SIGMA 3	METAL OBJECT	US	12 JUL	161.2	91.15	3538	3324	
SIGMA 4	METAL OBJECT	US	12 JUL	161.9	91.18	3557	3365	
UPSILON 1	EXPLORER 12	US	16 AUG	INSUFFICIENT OBSERVATIONS				
A DELTA 1	MIDAS 4	US	21 OCT	166.0	95.85	3750	3501	

OBJECTS IN ORBIT (CONT D)

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1961 LAUNCHES (CONT'D)								
A DELTA 3	METAL OBJECT	US	21 OCT	165.6	95.85	3718	3502	
A DELTA 4	METAL OBJECT	US	21 OCT	166.4	95.90	3763	3522	
A EPSILON 1	DISCOVERER 34	US	5 NOV	90.1	82.45	350	207	
A ETA 1	TRANSIT 4B	US	15 NOV	105.6	32.39	1146	916	
A ETA 2	TRAAC	US	15 NOV	105.6	32.43	1092	972	
A ETA 3	ROCKET BODY	US	15 NOV	105.5	32.43	1137	912	
1962 LAUNCHES								
ALPHA 1*	RANGER 3	US	26 JAN	406.4D	.3988	1.160AU	0.9839AU	
ALPHA 2	ROCKET BODY	US	26 JAN	INSUFFICIENT OBSERVATIONS				
BETA 1	TIROS 4	US	8 FEB	100.3	48.27	827	726	136.23;136.92
BETA 2	ROCKET BODY	US	8 FEB	101.3	48.13	950	696	
BETA 3	METAL OBJECT	US	8 FEB	99.4	48.42	748	720	
BETA 4	METAL OBJECT	US	8 FEB	100.2	48.29	820	727	
ZETA 1	ORB. SOL. OBS. 1	US	7 MAR	95.9	32.82	581	558	136.744
ZETA 2	ROCKET BODY	US	7 MAR	96.0	32.83	586	560	
ETA 1		US	7 MAR	92.0	90.90	507	236	
IOTA 1	COSMOS 2	USSR	6 APR	97.9	48.97	1113	207	
KAPPA 1		US	9 APR	153.0	86.69	3373	2821	
KAPPA 3		US	9 APR	152.7	86.67	3368	2795	
KAPPA 4		US	9 APR	153.4	86.63	3428	2795	
MU 2	ROCKET BODY	US	23 APR	INSUFFICIENT OBSERVATIONS				
OMICRON 1	ARIEL	US/UK	26 APR	100.7	53.83	1195	397	136.408
OMICRON 2	ROCKET BODY	US/UK	26 APR	100.7	53.85	1190	401	
SIGMA 1		US	15 MAY	93.2	82.33	555	298	
UPSILON 1	COSMOS 5	USSR	28 MAY	97.7	48.93	1117	185	
UPSILON 2	ROCKET BODY	USSR	28 MAY	93.0	48.99	664	184	
OMEGA 1		US	18 JUN	92.0	82.12	375	361	
A ALPHA 1	TIROS 5	US	19 JUN	100.5	58.09	960	603	136.235;136.922
A ALPHA 2	ROCKET BODY	US	19 JUN	100.4	58.10	952	605	
A ALPHA 3	METAL OBJECT	US	19 JUN	101.7	58.22	1073	611	
A ALPHA 4	METAL OBJECT	US	19 JUN	99.1	57.99	844	589	

OBJECTS IN ORBIT (CONT'D)

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1962 LAUNCHES (CONT'D)								
A EPSILON 1	TELSTAR 1	US	10 JUL	157.7	44.80	5645	946	136.05
A EPSILON 2	ROCKET BODY	US	10 JUL	157.6	44.78	5642	935	
A XI 1	COSMOS 8	USSR	18 AUG	92.3	48.99	553	251	
A XI 2	ROCKET BODY	USSR	18 AUG	90.8	48.96	399	236	
A OMICRON 1		US	23 AUG	99.6	98.62	855	618	
A OMICRON 2		US	23 AUG	98.3	98.62	759	595	
A OMICRON 3		US	23 AUG	100.9	98.60	978	617	
A OMICRON 4		US	23 AUG	99.6	98.63	858	615	
A RHO 1	MARINER 2	US	27 AUG	HELIOCENTRIC ORBIT				
A RHO 2	ROCKET BODY	US	27 AUG	HELIOCENTRIC ORBIT				
A UPSILON 1		US	1 SEP	94.1	82.82	638	304	
A PSI 1	TIROS 6	US	18 SEP	98.7	58.28	709	688	136.235;136.922
A PSI 2	ROCKET BODY	US	18 SEP	98.7	58.26	705	687	
A PSI 3	METAL OBJECT	US	18 SEP	99.4	58.44	778	681	
A PSI 4	METAL OBJECT	US	18 SEP	98.0	58.19	693	638	
B ALPHA 1	ALOUETTE	CANADA	29 SEP	105.5	80.47	1031	1002	136.979
B ALPHA 2	ROCKET BODY	US	29 SEP	105.5	80.48	1026	1002	
B GAMMA 1	EXPLORER 14	US	2 OCT	2184.7	33.64	98341	451	136.44
B GAMMA 2	ROCKET BODY	US	2 OCT	INSUFFICIENT OBSERVATIONS				
B ETA 1	RANGER	US	18 OCT	COMPUTATIONS IN PROGRESS				
B ETA 2	ROCKET BODY	US	18 OCT	COMPUTATIONS IN PROGRESS				
B KAPPA 1		US	26 OCT	147.2	71.41	5509	199	
B LAMBDA 1	EXPLORER 15	US	27 OCT	314.2	18.00	17570	317	136.101
B LAMBDA 2	ROCKET BODY	US	27 OCT	INSUFFICIENT OBSERVATIONS				
B MU 1	ANNA 1B	US	31 OCT	107.8	50.11	1177	1083	136.815
B MU 2	ROCKET BODY	US	31 OCT	107.5	50.09	1155	1077	
B OMICRON		US	5 NOV	89.9	74.99	334	201	

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

**ONE HUNDRED AND FIFTY-NINE 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 A-CHI 1		US	17 SEP 62	19 NOV 62
1962 B-EPSILON 1		US	9 OCT 62	16 NOV 62