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SPACE OPERATIONS CONTROL CENTER SATELLITE SITUATION REPORT

VOL. 3, NO. 13

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JUNE 30, 1963



GODDARD SPACE FLIGHT CENTER

GREENBELT, MD.

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

VOLUME 3 NO. 13

JUNE 30, 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 1200Z ON JUNE 30, 1963.

<u>OBJECT</u>	<u>OBJECTS IN ORBIT</u>					<u>TRANSMITTING</u>	
	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLINATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>
1958 LAUNCHES							
ALPHA 1	EXPLORER 1	US	1 FEB	104.9	33.18	1698	301
BETA 1	ROCKET BODY	US	17 MAR	138.2	34.25	4332	636
BETA 2	VANGUARD 1	US	17 MAR	133.9	34.24	3933	664
1959 LAUNCHES							
ALPHA 1	VANGUARD 2	US	17 FEB	125.2	32.87	3274	568
ALPHA 2	ROCKET BODY	US	17 FEB	129.7	32.90	3676	557
ETA 1	VANGUARD 3	US	18 SEP	129.7	33.35	3721	516
MU 1*	LUNIK 1	USSR	2 JAN	450 D	0.01	1.315AU	0.9766AU
NU 1*	PIONEER 4	US	3 MAR	398 D	1.30	1.142AU	0.9871AU
IOTA 1	EXPLORER 7	US	13 OCT	101.1	50.32	1053	574
IOTA 2	ROCKET BODY	US	13 OCT	100.9	50.30	1074	534
1960 LAUNCHES							
ALPHA 1*	PIONEER 5	US	11 MAR	312 D	3.35	0.995AU	0.8061AU
BETA 1	ROCKET BODY	US	1 APR	99.0	48.35	737	697
BETA 2	TIROS 1	US	1 APR	99.1	48.35	739	702
BETA 3	NONE	US	1 APR	97.8	48.47	673	643
BETA 4	NONE	US	1 APR	99.8	48.14	818	689
GAMMA 2	TRANSIT 1B	US	13 APR	94.2	51.20	614	349
GAMMA 4	NONE	US	13 APR	96.7	51.25	718	491
EPSILON 3	NONE	USSR	15 MAY	92.0	64.97	487	260
ZETA 1	MIDAS 2	US	24 MAY	94.2	33.04	503	470
ETA 1	TRANSIT 2A	US	22 JUN	101.6	66.70	1054	616
ETA 2	GREB	US	22 JUN	101.6	65.70	1048	620
ETA 3	ROCKET BODY	US	22 JUN	101.4	66.66	1027	623
IOTA 1	ECHO 1	US	12 AUG	115.1	47.28	1853	1072
IOTA 2	ROCKET BODY	US	12 AUG	118.0	47.23	1679	1509
IOTA 3	METAL OBJECT	US	12 AUG	118.2	47.22	1686	1517
IOTA 4	METAL OBJECT	US	12 AUG	INSUFFICIENT OBSERVATIONS			
IOTA 5	METAL OBJECT	US	12 AUG	118.3	47.28	1671	1549

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLINATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
1060 LAUNCHES								
NU 1	COURIER 1B	US	4 OCT	106.9	28.36	1204	975	
NU 2	ROCKET BODY	US	4 OCT	106.4	28.23	1222	912	
XI 1	EXPLORER 8	US	3 NOV	112.3	49.90	2271	402	
XI 2	ROCKET BODY	US	3 NOV	112.0	49.91	2226	415	
XI 3	NONE	US	3 NOV	109.8	49.35	2051	394	
XI 4	NONE	US	3 NOV	110.8	50.52	2121	415	
PI 1	TIROS 2	US	23 NOV	98.2	48.49	720	629	
PI 2	ROCKET BODY	US	23 NOV	98.0	48.47	694	643	
PI 3	NONE	US	23 NOV	98.1	48.51	717	626	
PI 4	NONE	US	23 NOV	98.2	48.45	713	543	
1961 LAUNCHES								
ALPHA 1	SAMOS 2	US	31 JAN	94.8	97.42	549	464	
ALPHA 2	METAL OBJECT	US	31 JAN	94.7	97.42	540	467	
GAMMA 1*	VENUS PROBE	USSR	12 FEB	300 D	0.58	1.019AU	0.7183AU	
DELTA 1	EXPLORER 9	US	16 FEB	116.5	38.89	2560	502	
DELTA 2	ROCKET BODY	US	16 FEB	118.4	38.84	2585	644	
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	28.76	1776	490	
OMICRON 1	TRANSIT 4A	US	29 JUN	103.8	66.81	985	893	
OMICRON 2	INJUN-SR-3	US	29 JUN	103.8	66.81	989	890	
OMICRON 3-186**	METAL OBJECTS	US	29 JUN					
RHO 1	TIROS 3	US	12 JUL	100.3	47.88	814	742	
RHO 2	ROCKET BODY	US	12 JUL	100.3	47.89	805	745	
RHO 3	METAL OBJECT	US	12 JUL	98.8	47.93	807	601	
RHO 4	METAL OBJECT	US	12 JUL	101.9	47.84	929	779	
SIGMA 1	MIDAS 3	US	12 JUL	161.5	91.23	3490	3399	
SIGMA 3	METAL OBJECT	US	12 JUL	161.2	91.20	3544	3318	
SIGMA 4	METAL OBJECT	US	12 JUL	161.9	91.23	3551	3371	
UPSILON 1	EXPLORER 12	US	16 AUG	INSUFFICIENT OBSERVATIONS				
A DELTA 1	MIDAS 4	US	21 OCT	156.0	95.89	3691	3561	

OBJECTS IN ORBIT							TRANSMITTING FREQ. (MC/S)
OBJECT	CODE NAME	SOURCE	NODAL		INCLI- NATION	APOGEE Km.	
			LAUNCH	PERIOD			
1961 LAUNCHES							
A DELTA 3	METAL OBJECT	US	21 OCT	165.6	95.93	3684	3536
A DELTA 4	METAL OBJECT	US	21 OCT	166.4	95.88	3772	3513
A ETA 1	TRANSIT 4B	US	15 NOV	105.6	32.42	1114	948
A ETA 2	TRAAC	US	15 NOV	105.6	32.44	1105	958
A ETA 3	ROCKET BODY	US	15 NOV	105.5	32.43	1103	946
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	48.26	858	695
BETA 2	ROCKET BODY	US	8 FEB	101.3	48.15	939	707
BETA 3	METAL OBJECT	US	8 FEB	99.4	48.42	773	694
BETA 4	METAL OBJECT	US	8 FEB	100.2	48.30	828	719
ZETA 1	ORB. SOL. OBS. 1	US	7 MAR	95.9	32.82	593	547
ZETA 2	ROCKET BODY	US	7 MAR	95.9	32.82	594	548
IOTA 1	COSMOS 2	USSR	6 APR	91.8	48.99	549	183
KAPPA 1		US	9 APR	153.0	86.71	3367	2828
KAPPA 3		US	9 APR	152.7	86.55	3342	2821
KAPPA 4		US	9 APR	153.4	86.64	3420	2804
MU 2	ROCKET BODY	US	23 APR	INSUFFICIENT OBSERVATIONS			
OMICRON 1	ARIEL	US/UK	26 APR	100.6	53.85	1201	382
OMICRON 2	ROCKET BODY	US/UK	26 APR	100.6	53.83	1197	382
SIGMA 1		US	15 MAY	92.0	82.33	460	274
OMEGA 1		US	18 JUN	91.1	82.12	336	312
A ALPHA 1	TIROS 5	US	19 JUN	100.4	58.07	964	598
A ALPHA 2	ROCKET BODY	US	19 JUN	100.4	58.07	953	602
A ALPHA 3	METAL OBJECT	US	19 JUN	101.7	58.21	1081	602
A ALPHA 4	METAL OBJECT	US	19 JUN	99.1	57.99	861	571
A EPSILON 1	TELSTAR 1	US	10 JUL	157.7	44.78	5641	944
A EPSILON 2	ROCKET BODY	US	10 JUL	157.5	44.81	5627	946
							136.744
							136.406
							136.233; 136.923

136.744

136.406

136.233;136.923

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLI - NATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
1962 LAUNCHES								
A XI 1	COSMOS 8	USSR	18 AUG	90.0	48.95	345	215	
A OMICRON 1		US	23 AUG	99.6	98.66	861	612	
A OMICRON 2		US	23 AUG	98.3	98.65	752	599	
A OMICRON 3		US	23 AUG	100.9	98.62	962	632	
A OMICRON 4		US	23 AUG	99.6	98.65	855	617	
A RHO 1*	MARINER 2	US	27 AUG	348 D	1.66	1.229AU	0.7046AU	
A RHO 2	ROCKET BODY	US	27 AUG					
A UPSILON 1		US	1 SEP	93.3	82.82	572	298	
A PSI 1	TIROS 6	US	18 SEP	98.7	58.29	720	677	136.233; 136.921
A PSI 2	ROCKET BODY	US	18 SEP	98.7	58.29	717	674	
A PSI 3	METAL OBJECT	US	18 SEP	99.4	58.43	762	697	
A PSI 4	METAL OBJECT	US	18 SEP	98.0	58.21	678	652	136.978; \$136.590
B ALPHA 1	ALOUETTE	CANADA	29 SEP	105.5	80.47	1036	997	\$136.080
B ALPHA 2	ROCKET BODY	US	29 SEP	105.5	80.48	1032	996	
B ALPHA 3	METAL OBJECT	US	29 SEP	105.4	80.56	1022	1000	
B ALPHA 4	METAL OBJECT	US	29 SEP	105.5	80.46	1054	979	
B GAMMA 1	EXPLORER 14	US	2 OCT	2184.6	39.08	97119	1669	136.440
B GAMMA 2	ROCKET BODY	US	2 OCT	INSUFFICIENT OBSERVATIONS				
B ETA 1	RANGER 5	US	18 OCT	370 D	.44422	1.0681AU	0.9498AU	
B ETA 2	ROCKET BODY	US	18 OCT					
B THETA 1		USSR	20 OCT	94.1	48.94	728	227	
B KAPPA 1		US	26 OCT	142.5	71.38	5097	218	
B LAMBDA 1	EXPLORER 15	US	27 OCT	314.0	17.98	17561	308	
B LAMBDA 2	ROCKET BODY	US	27 OCT	INSUFFICIENT OBSERVATIONS				
B MU 1	ANNA 1B	US	31 OCT	107.8	50.14	1197	1063	162; 324
B MU 2	ROCKET BODY	US	31 OCT	107.5	50.14	1170	1062	
B NU 3		USSR	1 NOV	COMPUTATIONS IN PROGRESS				
B TAU 1		US	13 DEC	114.1	70.35	2588	235	
B TAU 2	INJUN 3	US	13 DEC	115.1	70.37	2678	236	\$136.868
B TAU 3		US	13 DEC	90.6	70.22	397	205	
B TAU 4		US	13 DEC	112.9	70.46	2474	246	

OBJECT	OBJECTS IN ORBIT				INCLI- NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD				
1962 LAUNCHES								
B TAU 5		US	13 DEC	114.0	70.37	2584	232	
B TAU 6		US	13 DEC	114.8	70.37	2653	235	
B UPSILON 1	RELAY 1	US	13 DEC	185.0	47.52	7444	1317	136.140; \$136.620
B UPSILON	ROCKET BODY	US	13 DEC	184.8	47.54	7410	1334	
B CHI 1	EXPLORER 16	US	16 DEC	104.3	51.99	1171	759	\$136.860; \$136.200
B PSI 1	TRANSIT 5A	US	19 DEC	99.2	90.63	738	692	
B PSI 2		US	19 DEC	97.9	90.70	743	567	
B PSI 3		US	19 DEC	99.1	90.62	730	700	
B PSI 4		US	19 DEC	100.3	90.45	845	693	
1963 LAUNCHES								
1963 3A		US	16 JAN	94.6	81.89	530	465	
1963 3B		US	16 JAN	93.7	81.88	478	423	
1963 3C		US	16 JAN	94.0	81.89	512	427	
1963 4A	SYNCOM	US	14 FEB	1426.4	33.51	37014	34185	
1963 4B	ROCKET BODY	US	14 FEB	603.4	33.12	34327	248	
1963 5A		US	19 FEB	97.8	100.49	802	498	
1963 5B		US	19 FEB	97.8	100.49	804	494	
1963 5C		US	19 FEB	97.1	100.47	771	460	
1963 5D		US	19 FEB	98.4	100.49	850	514	
1963 8B		USSR	2 APR	INSUFFICIENT OBSERVATIONS				
1963 9A	EXPLORER 17	US	3 APR	96.1	57.63	879	263	\$136.316; 136.559
1963 9B	ROCKET BODY	US	3 APR	94.5	57.64	729	263	
1963 10A		USSR	13 APR	90.7	48.81	383	245	
1963 10B		USSR	13 APR	89.3	48.95	281	205	
1963 13A	TELSTAR 2	US	7 MAY	225.2	42.72	10802	970	136.050
1963 13B	ROCKET BODY	US	7 MAY	224.9	42.67	10823	932	
1963 14B		US	9 MAY	166.5	87.38	3717	3572	
1963 14B		US	9 MAY	165.5	87.43	3687	3604	136.892
1963 14C		US	9 MAY	156.5	87.34	3680	3610	136.410
1963 14D		US	9 MAY	156.5	87.42	3678	3610	
1963 14E		US	9 MAY	166.1	87.36	3662	3598	

OBJECT	OBJECTS IN ORBIT				INCLI- NATION	APOGEE		PERIGEE	TRANSMITTING FREQ. (MC/S)
	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD		Km.	Km.		
1963 LAUNCHES									
1963 17A		USSR	22 MAY	94.7	49.00	753	261		
1963 17B		USSR	22 MAY	92.8	48.99	570	258		
1963 17C		USSR	22 MAY	96.1	49.22	805	350		
1963 17D		USSR	22 MAY	93.2	49.07	597	275		
1963 17E		USSR	22 MAY	92.1	48.98	509	251		
1963 17F		USSR	22 MAY	95.6	49.32	783	322		
1963 17G		USSR	22 MAY	94.6	48.97	737	270		
1963 19A		US	12 JUN	90.0	81.81	369	178		
1963 21A		US	15 JUN	94.5	69.87	806	177		
1963 21B	LOFTI IIA	US	15 JUN	93.7	69.91	723	183		136.380
1963 21C	SOLAR RADIATION	US	15 JUN	94.1	69.79	772	177		136.890
1963 21D		US	15 JUN	94.1	68.89	784	166		
1963 21E		US	15 JUN	94.0	69.92	759	177		
1963 21F		US	15 JUN	91.7	69.82	548	164		
1963 22A		US	16 JUN	99.8	90.01	764	725		
1963 22B		US	16 JUN	99.8	90.01	764	724		
1963 22C		US	16 JUN	101.3	90.01	912	722		
1963 22D		US	16 JUN	98.3	90.01	674	673		
1963 24A	TIROS 7	US	19 JUN	97.4	58.22	652	620		136.235;136.922
1963 24B	ROCKET BODY	US	19 JUN	97.4	58.24	651	616		
1963 24C	METAL OBJECT	US	19 JUN	97.9	58.40	690	626		
1963 24D	METAL OBJECT	US	19 JUN	96.9	58.10	647	575		
1963 25A		US	27 JUN	90.5	81.58	397	199		
1963 26A	RESEARCH SATELLITE-US		28 JUN	102.1	49.72	1312	410		

* APHELION PERIHELION IN ASTRONOMICAL UNITS, INCLINATION TO ECLIPTIC.

** ONE HUNDRED AND EIGHTY FOUR 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.

\$ TRANSMITTING ON COMMAND ONLY.

& TRANSMITTING WHEN IN SUNLIGHT ONLY.

PLEASE ADD THE FOLLOWING TO THE DECAYED OBJECTS LIST

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>DECAY</u>
1963 18A		USSR	24 MAY 63	2 JUN 63
1963 20A	VOSTOK 5	USSR	14 JUN 63	19 JUN 63
1963 20B		USSR	14 JUN 63	16 JUN 63
1963 23A	VOSTOK 6	USSR	16 JUN 63	19 JUN 63
1963 23B		USSR	16 JUN 63	18 JUN 63

**** USSR ANNOUNCED SUCCESSFUL RE-ENTRY AND RECOVERY OF A MANNED SPACE VEHICLE.

