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

Volume 2, No 1

SATELLITE SITUATION REPORT,

January 2, 1962

The following report reflects data computed and compiled by  
Goddard Space Flight Center, NORAD, and the Smithsonian Astrophysical  
Observatory as of 1200Z on January 2, 1962.

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(NASA TM X-50,205)

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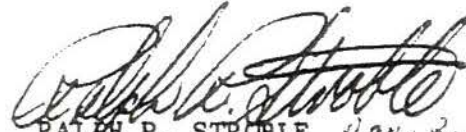
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RALPH R. STROBLE Jan. 2, 1962 5p (copy)  
HEAD, Operations Branch

TM X-50,205

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 S. MILES</u>	<u>PERIGEE S. MILES</u>	<u>TRANSMITTING FREQ. (MC/S)</u>	
1958 ALPHA 1	EXPLORER I	US	1 FEB 58	106.0	33.19	1084	217		
1958 BETA 1	ROCKET BODY	US	17 MAR 58	138.3	34.26	2684	406		
1958 BETA 2	VANGUARD I	US	17 MAR 58	133.8	34.24	2449	404	108.022	
1959 ALPHA 1	VANGUARD II	US	17 FEB 59	125.3	32.87	2079	313		
1959 ALPHA 2	ROCKET BODY	US	17 FEB 59	129.6	32.90	2254	370		
1959 ETA 1	VANGUARD III	US	18 SEP 59	129.7	33.30	2299	332		
1959 MU*	LUNIK I	USSR	2 JAN 59	450D	0.01	1.3177AU	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	50.31	669	344		
1959 IOTA 2	ROCKET BODY	US	13 OCT 59	100.9	50.30	656	345		
1960 ALPHA*	PIONEER V	US	11 MAR 60	311.6D	3.35	.9951AU	.8061AU		
1960 BETA 1	ROCKET BODY	US	1 APR 60	99.1	48.41	463	429		
1960 BETA 2	TIROS I	US	1 APR 60	99.1	48.39	467	429	107.997	
1960 BETA 3	NONE	US	1 APR 60	97.8	48.46	445	375		
1960 BETA 4	NONE	US	1 APR 60	99.8	48.15	503	434		
1960 GAMMA 2	TRANSIT 1B	US	13 APR 60	94.7	51.28	401	229		
1960 GAMMA 4	NONE	US	13 APR 60	96.8	51.21	458	299		
1960 EPSILON 1	SPUTNIK IV	USSR	15 MAY 60	91.6	65.02	275	160		
1960 EPSILON 3	NONE	USSR	15 MAY 60	93.0	64.89	352	170		
1960 EPSILON 4	NONE	USSR	15 MAY 60	POSITION UNCERTAIN					
1960 ZETA 1	MIDAS II	US	24 MAY 60	94.2	33.01	310	299		
1960 ETA 1	TRANSIT 2A	US	22 JUN 60	101.6	66.77	649	389	162;216;	
1960 ETA 2	GREB	US	22 JUN 60	101.6	66.77	657	381		
1960 ETA 3	ROCKET BODY	US	22 JUN 60	101.4	66.77	642	383		
1960 IOTA 1	ECHO I	US	12 AUG 60	116.1	47.30	1314	563		
1960 IOTA 2	ROCKET BODY	US	12 AUG 60	118.0	47.22	1049	932		
1960 IOTA 3	METAL OBJECT	US	12 AUG 60	118.2	47.20	1049	941		
1960 IOTA 4	METAL OBJECT	US	12 AUG 60	118.2	47.23	1071	922		
1960 IOTA 5	METAL OBJECT	US	12 AUG 60	118.3	47.20	1060	940		
1960 NU 1	COURIER 1B	US	4 OCT 60	106.8	28.20	777	577	107.9709	
1960 NU 2	ROCKET BODY	US	4 OCT 60	106.4	28.29	756	570		
1960 XI 1	EXPLORER VIII	US	3 NOV 60	112.4	49.92	1409	258		
1960 XI 2	ROCKET BODY	US	3 NOV 60	112.2	49.98	1398	256		
1960 XI 3	NONE	US	3 NOV 60	110.8	49.39	1327	250		
1960 XI 4	NONE	US	3 NOV 60	111.7	50.52	1363	262		

OBJECTS IN ORBIT (CONT'D)

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLI-NATION</u>	<u>APOGEE S. MILES</u>	<u>PERIGEE S. MILES</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
1960 PI 1	TIROS II	US	23 NOV 60	98.2	48.57	461	378	
1960 PI 2	ROCKET BODY	US	23 NOV 60	98.1	48.57	455	378	
1960 PI 3	NONE	US	23 NOV 60	98.1	48.46	452	383	
1960 PI 4	NONE	US	23 NOV 60	98.3	48.51	455	389	
1961 ALPHA 1	SAMOS II	US	31 JAN 61	94.9	97.40	339	295	
1961 ALPHA 2	METAL OBJECT	US	31 JAN 61	94.9	97.40	338	295	
1961 GAMMA 1*	VENUS PROBE	USSR	12 FEB 61	300D	0.581	1.0190AU	0.7133AU	
1961 DELTA 1	EXPLORER IX	US	16 FEB 61	118.0	38.81	1519	466	
1961 DELTA 2	ROCKET BODY	US	16 FEB 61	118.4	38.77	1627	379	
1961 DELTA 3	NONE	US	16 FEB 61	118.1	38.87	1555	438	
1961 DELTA 4	NONE	US	16 FEB 61	POSITION UNCERTAIN				
1961 EPSILON 1	DISCOVERER XX	US	17 FEB 61	93.0	80.91	342	176	
1961 ZETA 1	DISCOVERER XXI	US	18 FEB 61	93.2	80.74	387	146	
1961 KAPPA 1	EXPLORER X	US	25 MAR 61	POSITION UNCERTAIN				
1961 LAMBDA 1	DISCOVERER XXIII	US	8 APR 61	91.8	82.31	281	166	
1961 LAMBDA 2	CAPSULE	US	8 APR 61	95.9	81.94	573	120	
1961 NU 1	EXPLORER XI	US	27 APR 61	107.8	28.78	1109	301	
1961 OMICRON 1	TRANSIT 4A	US	29 JUN 61	103.8	66.81	620	547	54;150;324;400
1961 OMICRON 2	INJUN-SR-3	US	29 JUN 61	103.8	66.82	619	548	136.5
1961 OMICRON 3-52**	METAL OBJECTS	US	29 JUN 61					
1961 RHO 1	TIROS III	US	12 JUL 61	100.3	47.90	511	457	108.0;108.03
1961 RHO 2	ROCKET BODY	US	12 JUL 61	100.3	47.85	503	462	
1961 RHO 3	METAL OBJECT	US	12 JUL 61	98.8	47.92	500	376	
1961 RHO 4	METAL OBJECT	US	12 JUL 61	101.9	47.89	563	498	
1961 SIGMA 1	MIDAS III	US	12 JUL 61	161.5	91.13	2197	2084	
1961 SIGMA 3	METAL OBJECT	US	12 JUL 61	161.2	91.13	2178	2085	
1961 SIGMA 4	METAL OBJECT	US	12 JUL 61	161.9	91.15	2205	2096	
1961 UPSILON 1	EXPLORER XII	US	16 AUG 61	1588.3	33.43	47651	481	
1961 ALPHA DELTA 1	MIDAS IV	US	21 OCT 61					
1961 ALPHA EPSILON 1	DISCOVERER XXXIV	US	5 NOV 61	96.4	82.52	583	140	

OBJECTS IN ORBIT (CONT'D)

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLI-NATION</u>	<u>APOGEE S. MILES</u>	<u>PERIGEE S. MILES</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
1961 ALPHA ETA 1	TRANSIT IV-B	US	15 NOV 61	105.6	32.43	689	593	136.8;54;324;150;400
1961 ALPHA ETA 2	TRACC	US	15 NOV 61	105.6	32.43	686	597	136.65;54;324
1961 ALPHA ETA 3	ROCKET BODY	US	15 NOV 61	105.5	32.41	687	588	
1961 ALPHA KAPPA 1	DISCOVERER XXXVI	US	12 DEC 61	91.5	81.21	280	148	20.005;40.01
1961 ALPHA KAPPA 2	OSCAR	US	12 DEC 61	91.1	81.21	258	146	145

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

\*\*FIFTY METAL OBJECTS HAVE BEEN IDENTIFIED IN THE PLANE OF THE 1961 OMICRON 1 AND 1961 OMICRON 2 ORBITS.

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>
1961 ALPHA KAPPA 3	METAL OBJECT	US	12 DEC 61	20 DEC 61