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CODE-1

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

Volume 2, No 4 SATELLITE SITUATION REPORT February 13, 1962

The following report reflects data computed and compiled by Goddard Space Flight Center, NORAD, and the Smithsonian Astrophysical Observatory as of 1200Z on February 13, 1962.

Hugh A. Turnbull
for
RALPH R. STROBLE Feb. 13, 1962
HEAD, Operations Branch

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OBJECTS IN ORBIT

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE S. MILES	PERIGEE S. MILES	TRANSMITTING FREQ. (MC/S)
1958 ALPHA 1	EXPLORER I	US	1 FEB 58	106.0	33.19	1082	219	
1958 BETA 1	ROCKET BODY	US	17 MAR 58	138.3	34.26	2648	441	
1958 BETA 2	VANGUARD I	US	17 MAR 58	133.9	34.24	2443	412	108.022
1959 ALPHA 1	VANGUARD II	US	17 FEB 58	125.3	32.87	2083	306	
1959 ALPHA 2	ROCKET BODY	US	17 FEB 58	129.5	32.90	2260	362	
1959 ETA 1	VANGUARD III	US	18 SEP 59	129.8	33.30	2314	320	
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	661	339	
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	462	430	
1960 BETA 2	TIROS I	US	1 APR 60	99.1	48.39	464	432	107.997
1960 BETA 3	NONE	US	1 APR 60	97.8	48.46	436	383	
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	408	221	
1960 GAMMA 4	NONE	US	13 APR 60	96.8	51.21	460	296	
1960 EPSILON 1	SPUTNIK IV	USSR	15 MAY 60	91.4	65.02	263	160	
1960 EPSILON 3	NONE	USSR	15 MAY 60	92.9	64.89	349	170	
1960 EPSILON 4	NONE	USSR	15 MAY 60	POSITION UNCERTAIN				
1960 ZETA 1	MIDAS II	US	24 MAY 60	94.2	33.01	312	297	
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	655	382	
1960 ETA 3	ROCKET BODY	US	22 JUN 60	101.4	66.77	642	383	
1960 IOTA 1	ECHO I	US	12 AUG 60	116.2	47.30	1193	689	
1960 IOTA 2	ROCKET BODY	US	12 AUG 60	118.0	47.22	1038	943	
1960 IOTA 3	METAL OBJECT	US	12 AUG 60	118.1	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	1047	953	
1960 NU 1	COURIER 1B	US	4 OCT 60	106.9	28.20	765	590	107.9709
1960 NU 2	ROCKET BODY	US	4 OCT 60	106.4	28.29	746	580	
1960 XI 1	EXPLORER VIII	US	3 NOV 60	112.4	49.92	1410	258	
1960 XI 2	ROCKET BODY	US	3 NOV 60	112.2	49.98	1393	262	
1960 XI 3	NONE	US	3 NOV 60	110.8	49.39	1326	250	
1960 XI 4	NONE	US	3 NOV 60	111.7	50.52	1374	250	

OBJECTS IN ORBIT (CONT'D)

OBJECT	CODE NAME	SOURCES	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE S. MILES	PERIGEE S. MILES	TRANSMITTING FREQ. (MC/S)
1960 PI 1	TIROS II	US	23 NOV 60	98.2	48.57	454	385	
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	451	385	
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	94.8	97.40	337	295	
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	118.1	38.81	1522	466	
1961 DELTA 2	ROCKET BODY	US	16 FEB 61	118.5	38.77	1607	402	
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	92.6	80.91	333	165	
1961 ZETA 1	DISCOVERER XXI	US	18 FEB 61	92.3	80.74	343	133	
1961 KAPPA 1	EXPLORER X	US	25 MAR 61	POSITION UNCERTAIN				
1961 LAMBDA 1	DISCOVERER XXIII	US	8 APR 61	91.3	82.31	254	164	
1961 LAMBDA 2	CAPSULE	US	8 APR 61	94.8	81.94	512	119	
1961 NU 1	EXPLORER XI	US	27 APR 61	107.8	28.78	1109	303	
1961 OMICRON 1	TRANSIT 4A	US	29 JUN 61	103.8	66.81	618	550	54;150;324;400
1961 OMICRON 2	INJUN-SR-3	US	29 JUN 61	103.8	66.82	619	549	136.5
1961 OMICRON 3-45**	METAL OBJECTS	US	29 JUN 61					
1961 OMICRON 47-68**	METAL OBJECTS	US	29 JUN 61					
1961 RHO 1	TIROS III	US	12 JUL 61	100.3	47.90	510	457	108.0;108.03
1961 RHO 2	ROCKET BODY	US	12 JUL 61	100.3	47.85	502	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	581	480	
1961 SIGMA 1	MIDAS III	US	12 JUL 61	161.5	91.13	22003	2078	
1961 SIGMA 3	METAL OBJECT	US	12 JUL 61	161.2	91.13	2201	2062	
1961 SIGMA 4	METAL OBJECT	US	12 JUL 61	161.9	91.15	2208	2093	
1961 UPSILON 1	EXPLORER XII	US	16 AUG 61	1586.8	33.43	47615	481	
1961 ALPHA DELTA 1	MIDAS IV	US	21 OCT 61					
1961 ALPHA EPSILON 1	DISCOVERER XXXIV	US	5 NOV 61	96.0	82.52	548	155	

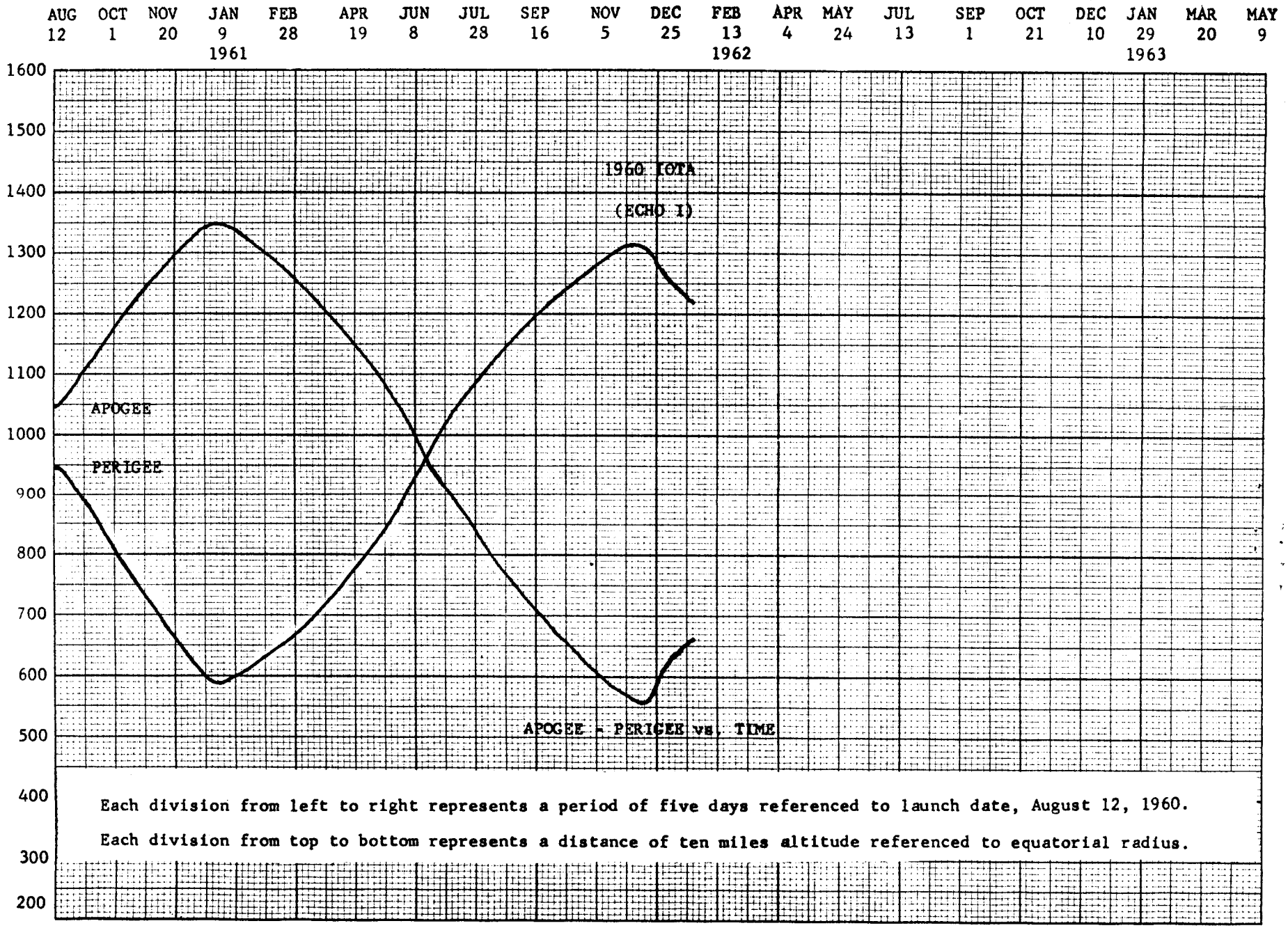
OBJECTS IN ORBIT (CONT'D)

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE S. MILES	PERIGEE S. MILES	TRANSMITTING FREQ. (MC/S)
1961 ALPHA ETA 1	TRANSIT IV-B	US	15 NOV 61	105.6	32.43	689	592	136.8;54;324;150;400
1961 ALPHA ETA 2	TRACC	US	15 NOV 61	105.6	32.43	690	592	136.65;54;324
1961 ALPHA ETA 3	ROCKET BODY	US	15 NOV 61	105.5	32.41	685	588	
1961 ALPHA KAPPA 1	DISCOVERER XXXVI	US	12 DEC 61	90.4	81.21	224	137	20.005;40.01
1962 ALPHA 1*	RANGER III	US	26 JAN 62	406.4D	.3988	1.163AU	0.9839AU	
1962 BETA 1	TIROS IV	US	8 FEB 62	100.3	48.25	521	442	
1962 BETA 2	ROCKET BODY	US	8 FEB 62	101.4	48.44	589	439	
1962 BETA 3	METAL OBJECT	US	8 FEB 62	99.4	48.44	477	436	
1962 BETA 4	METAL OBJECT	US	8 FEB 62	100.2	48.26	523	439	

*APHELION, PERIHELION IN ASTRONOMICAL UNITS, INCLINATION TO ECLIPTIC.
**SIXTY-EIGHT 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
1961 ALPHA KAPPA 2	OSCAR	US	12 DEC 61	31 JAN 62


AUG 12
OCT 1
NOV 20
JAN 9 1961
FEB 28
APR 19
JUN 8
JUL 28
SEP 16
NOV 5
DEC 25
FEB 13 1962
APR 4
MAY 24
JUL 13
SEP 1
OCT 21
DEC 10
JAN 29 1963
MAR 20
MAY 9
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
1960 IOTA
(ECHO I)
APOGEE
PERIGEE
APOGEE - PERIGEE vs. TIME
Each division from left to right represents a period of five days referenced to launch date, August 12, 1960.
Each division from top to bottom represents a distance of ten miles altitude referenced to equatorial radius.