

PROJECT 10073 RECORD CARD

1. DATE <u>8 February 1963</u>		2. LOCATION <u>39.30N 172.30W (Pacific)</u>		12. CONCLUSIONS ☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon ☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft ☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical ☒ Other <u>Satellite (ECHO)</u>	
3. DATE-TIME GROUP Local _____ GMT <u>08/1720Z</u>		4. TYPE OF OBSERVATION ☐ Ground-Visual ☐ Ground-Radar ☒ Air-Visual ☐ Air-Intercept Radar			
5. PHOTOS ☐ Yes ☒ No		6. SOURCE <u>Military</u>			
7. LENGTH OF OBSERVATION <u>15 minutes</u>		8. NUMBER OF OBJECTS <u>one</u>		9. COURSE <u>NNE</u>	
10. BRIEF SUMMARY OF SIGHTING Round glowing light sighted moving North, northeast at 30 dgr elevation. Object disappeared at 20 dgr above the horizon after 15 minutes. Disappearance by fading.				11. COMMENTS Apparently orbital in nature. No mention of change in speed or course. ECHO data not available. Case considered as a probable satellite observation. <u>ECHO (KOS 10) LOCATED AT 1744Z</u> <u>Heading NE AT 177.77W.</u> <u>DEFINITE ECHO SIGHTING.</u>	

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

INCOMING

AF IN : 4230 (8 Feb 63)F/joe

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SMB B267

INFO : NIN-17, XOP-1, XOPX-2, SAF-OS-3
ARMY-2, CMC-8, JCS-35, OSD-15, CIA-11
NSA-7, DIA-15, DIA-CIIC-2 (119)

ZCHQA225ZCQJA312

OO RUEAHQ

DE RUHLKH 7

ZNR

O 081900Z

FM 326TH AIRDIV KUNIA FACILITY HAWAII
TO RUHLKM/PACAF HICKAM AFB HAWAII
RUHPQ/COMHAWSEAFRON PEARL HARBOR HAWAII
RUKAC/COMALSEAFRON KODIAK ALASKA
RUWSPG/COMWEST SEAFRON SAN FRANCISCO CALIF
INFO RUEAHQ/COFS USAF WASHINGTON D. C1
4UWGAL/CINCNOAD WNT AFB COLO.
RUHPACXINCPAC CP HM SMITH HAWAII
RUHPB/CINCPACFLT PEARL HARBOR HAWAII
L YGHGHCQKCOMUSFAPAN FUCHU AS JAPAN
RUAMCR/ COMUSKOREA
RUAGFL/COMUSTDC TAIPEI TAIWAN
RUCSBR/CINCSAC OFFUTEDBEZA
R
/COMASWFORPAC FORD ISLAND HAWAII
RUECW/CNO WASHINGTON D. C.
RUECW/SECNAV WASHINGTON D.C.
BT
UNCLAS/CIRVIS REPORT/NAVY 43186 ,UFO, ROUND GLOWING LIGHT SIZE

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AF IN : 4230 (8 Feb 63)

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OF PINHEAD, VISUAL SIGHTING 30 DEG ABOVE THE HORIZON BEARING 130
DEG TRUE FROM 39 DEG 30 MIN NORTH, 172 DEG 30 MIN WEST, HEADING
NNE AT 1720Z, FADED AT 1735Z, 080 DEG TRUE 20 DEG ABOVE THE
HORIZON, SPEED UNK. AIRCRAFT AT FL100, GS 200, CUS ON TOP
THE CLOUDS IN THE CLEAR.

NO EVALUATION.

BT NOTE: ADV CY TO XOPX, NIN AND DIA
08/1908Z FEB RUHLKH

NNNN

JANUARY 20, 1963

SATELLITE 1960 IOTA 1, DATA 1

These predictions are based on orbital elements revised on January 28, 1963
 T₀ = January 29.0, times are in days, U.T.
 Argument of perigee = 8728 + 47162 (t - T₀)
 Right ascension of ascending node = 2555063 - 372627 (t - T₀)

Inclination = 47°26'69"
 Eccentricity = 0.035210 - 2.141 × 10⁻⁴ (t - T₀)
 Semi-major axis = 7.85130 megameters
 Mean anomaly (Rev.) = 0.75414 + 12.461969 (t - T₀) - 1.37 × 10⁻⁶ (t - T₀)²

SATELLITE 1960 IOTA 1 FOR OTHER LATITUDES										SATELLITE 1960 IOTA 1 FOR OTHER LATITUDES													
EQUATOR S-N		LAT.	SOUTH-NORTH				NORTH-SOUTH				EQUATOR S-N		LAT.	SOUTH-NORTH				NORTH-SOUTH					
TIME (UT)	LONG. (W)		TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (N-E)	TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (N-E)	TIME (UT)	LONG. (W)		TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (N-E)	TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (N-E)		
FEBRUARY 2, 1963																							
1	37.4	273.92	47.5	27.2	-83.09	851	90.0°	27.2	-83.14	851	90.0°	1	49.9	274.07	47.5	27.2	-83.10	815	90.0°	27.2	-83.15	815	90.0°
3	42.8	303.13	45.0	22.2	-60.97	812	72.2°	32.4	-105.23	895	107.8°	3	45.4	323.29	45.0	22.2	-60.97	786	72.2°	32.2	-105.26	851	107.8°
5	29.3	332.33	40.0	18.2	-45.74	786	60.7°	36.5	-120.41	931	119.4°	5	40.8	352.46	40.0	18.3	-45.73	770	60.7°	36.4	-120.46	884	119.3°
7	23.7	1.53	35.0	15.3	-36.10	772	54.0°	39.6	-129.99	958	126.1°	7	36.3	21.70	35.0	15.4	-36.09	762	54.0°	39.4	-130.06	910	126.1°
9	19.2	30.74	30.0	12.8	-28.75	762	49.4°	42.4	-137.29	981	130.7°	9	31.7	50.90	30.0	12.9	-28.73	759	49.4°	42.1	-137.37	931	130.6°
11	14.6	59.94	20.0	8.3	-17.41	753	43.7°	47.4	-148.51	1019	136.4°	11	27.2	80.10	20.0	8.4	-17.39	752	43.7°	47.0	-148.61	974	136.4°
13	10.1	89.14	0.	0.	0.	767	40.0°	56.7	-165.66	1070	140.2°	13	22.6	109.30	0.	0.	0.	755	39.9°	56.1	-165.80	1039	140.2°
15	5.5	118.35	-20.0	-8.4	17.38	818	43.7°	-49.4	148.00	1089	136.4°	15	18.1	138.51	-20.0	-8.5	17.35	858	43.7°	-50.0	147.83	1079	136.4°
17	1.0	147.55	-30.0	-13.1	28.68	854	49.4°	-44.2	136.87	1082	130.7°	17	13.5	167.71	-30.0	-13.3	28.63	901	49.4°	-44.9	136.66	1086	130.7°
18	56.4	176.75	-35.0	-15.7	36.01	878	54.0°	-41.4	129.56	1073	126.1°	18	9.0	196.91	-35.0	-16.0	35.94	926	53.9°	-42.0	129.40	1099	126.1°
20	51.9	205.95	-40.0	-18.7	45.61	907	60.7°	-38.1	120.02	1057	119.4°	20	5.4	226.12	-40.0	-19.1	45.53	955	60.6°	-38.7	119.86	1079	119.4°
22	47.3	235.16	-45.0	-22.9	60.79	946	72.2°	-33.7	104.83	1034	107.8°	22	59.5	255.32	-45.0	-23.3	60.68	991	72.2°	-34.3	104.75	1063	107.8°
			-47.5	-28.2	82.83	993	90.0°	-28.3	82.88	993	90.0°				-47.5	-28.7	82.70	1032	90.0°	-28.8	82.75	1032	90.0°
FEBRUARY 3, 1963																							
0	42.8	264.36	47.5	27.2	-83.09	841	90.0°	27.2	-83.14	841	90.0°	0	55.3	284.52	47.5	27.2	-83.10	808	90.0°	27.2	-83.15	808	90.0°
2	39.2	293.57	45.0	22.2	-60.97	804	72.2°	32.3	-105.24	884	107.8°	2	50.8	313.73	45.0	22.2	-60.96	781	72.2°	32.2	-105.27	842	107.8°
4	33.7	322.77	40.0	18.2	-45.74	781	60.7°	36.5	-120.43	920	119.4°	4	46.2	342.93	40.0	18.3	-45.72	767	60.7°	36.3	-120.47	874	119.3°
6	29.1	351.97	35.0	15.3	-36.10	768	54.0°	39.6	-130.01	947	126.1°	6	41.7	372.13	35.0	15.4	-36.08	762	54.0°	39.3	-130.07	899	126.0°
8	24.6	21.18	30.0	12.8	-28.75	760	49.4°	42.3	-137.31	969	130.7°	8	37.1	41.34	30.0	12.9	-28.73	760	49.4°	42.0	-137.36	922	130.6°
10	20.0	50.38	20.0	8.3	-17.41	754	43.7°	47.3	-148.53	1008	136.4°	10	32.6	70.54	20.0	8.4	-17.39	766	43.7°	46.9	-148.63	962	136.4°
12	15.5	79.58	0.	0.	0.	772	40.0°	56.5	-165.70	1064	140.2°	12	28.0	99.74	0.	0.	0.	803	39.9°	56.0	-165.83	1030	140.2°
14	11.0	108.79	-20.0	-8.4	17.37	825	43.7°	-49.6	147.95	1088	136.4°	14	23.5	128.94	-20.0	-8.6	17.34	869	43.7°	-50.2	147.80	1075	136.4°
16	6.4	137.99	-30.0	-13.1	28.67	865	49.4°	-44.4	136.78	1085	130.7°	16	18.9	158.15	-30.0	-13.3	28.61	913	49.4°	-45.0	136.62	1085	130.7°
18	1.9	167.19	-35.0	-15.8	35.99	890	54.0°	-41.5	129.52	1078	126.1°	18	14.4	187.35	-35.0	-16.0	35.92	937	53.9°	-42.1	129.36	1086	126.1°
19	57.3	196.40	-40.0	-18.8	45.59	918	60.6°	-38.2	119.98	1065	119.4°	20	9.8	216.55	-40.0	-19.2	45.51	966	60.6°	-38.8	119.82	1082	119.4°
21	52.0	225.60	-45.0	-23.0	60.76	957	72.2°	-33.8	104.86	1042	107.8°	22	5.3	246.76	-45.0	-23.4	60.66	1001	72.2°	-34.4	104.71	1068	107.8°
23	48.2	254.80	-47.5	-28.4	82.80	1003	90.0°	-28.4	82.85	1003	90.0°				-47.5	-28.9	82.67	1040	90.0°	-28.9	82.72	1040	90.0°
FEBRUARY 4, 1963																							
1	43.7	284.01	47.5	27.2	-83.10	831	90.0°	27.2	-83.15	831	90.0°	0	0.7	274.96	47.5	27.2	-83.09	801	90.0°	27.2	-83.14	801	90.0°
3	39.1	313.21	45.0	22.2	-60.97	797	72.2°	32.3	-105.25	872	107.8°	1	56.2	304.14	45.0	22.2	-60.96	777	72.2°	32.2	-105.27	833	107.8°
5	34.6	342.41	40.0	18.3	-45.74	776	60.7°	36.4	-120.44	907	119.4°	3	51.6	333.37	40.0	18.3	-45.71	764	60.7°	36.3	-120.47	864	119.3°
7	30.0	11.62	35.0	15.4	-36.10	765	54.0°	39.5	-130.03	934	126.1°	5	47.1	2.57	35.0	15.5	-36.07	762	54.0°	39.3	-130.08	886	126.0°
9	25.5	40.62	30.0	12.8	-28.74	759	49.4°	42.2	-137.33	957	130.7°	7	42.5	31.77	30.0	12.9	-28.72	762	49.4°	42.0	-137.39	911	130.6°
11	20.9	70.02	20.0	8.3	-17.40	756	43.7°	47.1	-148.56	997	136.4°	9	38.0	60.97	20.0	8.4	-17.38	771	43.7°	46.8	-148.65	951	136.4°
13	16.4	99.23	0.	0.	0.	780	40.0°	56.4	-165.74	1056	140.2°	11	33.4	90.18	0.	0.	0.	812	39.9°	55.9	-165.86	1020	140.2°
15	11.8	128.43	-20.0	-8.5	17.37	836	43.7°	-49.7	147.91	1086	136.4°	13	28.9	119.38	-20.0	-8.6	17.33	880	43.7°	-50.3	147.76	1070	136.4°
17	7.3	157.63	-30.0	-13.2	28.66	877	49.4°	-44.6	136.74	1086	130.7°	15	24.3	148.58	-30.0	-13.4	28.60	924	49.4°	-45.2	136.59	1083	130.7°
19	2.7	186.84	-35.0	-15.8	35.93	902	54.0°	-41.7	129.48	1081	126.1°	17	19.8	177.79	-35.0	-16.1	35.91	949	53.9°	-42.3	129.32	1085	126.1°
20	58.2	216.04	-40.0	-18.9	45.57	931	60.6°	-38.4	119.94	1071	119.4°	19	15.2	206.99	-40.0	-19.2	45.48	976	60.6°	-39.0	119.79	1083	119.4°
22	53.6	245.24	-45.0	-23.1	60.74	969	72.2°	-34.0	104.82	1050	107.8°	21	10.7	236.19	-45.0	-23.5	60.63	1011	72.2°	-34.6	104.68	1073	107.8°
			-47.5	-28.5	82.77	1019	90.0°	-28.5	82.81	1019	90.0°	23	6.1	265.39	-47.5	-29.0	82.64	1047	90.0°	-29.0	82.69	1048	90.0°
FEBRUARY 5, 1963																							
0	49.1	274.45	47.5	27.2	-83.10	823	90.0°	27.2	-83.15	823	90.0°	1	1.5	294.60	47.5	27.2	-83.09	795	90.0°	27.2	-83.14	795	90.0°
2	44.5	303.65	45.0	22.2	-60.97	791	72.2°	32.3	-105.26	862	107.8°	2	57.0	323.80	45.0	22.2	-60.95	774	72.2°	32.2	-105.26	825	107.8°
4	40.0	332.89	40.0	18.3	-45.73	773	60.7°	36.3	-120.45	896	119.3°	4	52.4	353.00	40.0	18.4	-45.70	765	60.7°	36.3	-120.48	853	119.3°
6	35.4	2.05	35.0	15.4	-36.09	763	54.0°	39.4	-130.05	922	126.1°	6	47.9	22.21	35.0	15.5	-36.06	764	54.0°	39.3	-130.08	877	126.0°
8	30.9	31.28	30.0	12.9	-28.74	759	49.4°	42.1	-137.35	945	130.7°	8	43.3	51.41	30.0	13.0	-28.71	765	49.4°	41.9	-137.40	899	130.6°
10	26.3	60.46	20.0	8.4	-17.40	759	43.7°	47.0	-148.59	986	136.4°	10	38.8	80.61	20.0	8.4	-17.37	776	43.7°	46.8	-148.66	939	136.4°
12	21.8	89.66																					