

PROJECT 10073 RECORD CARD

1. DATE 16 June 1963	2. LOCATION 28.00N 162.00W (Pacific)		12. CONCLUSIONS ☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon
3. DATE-TIME GROUP Local _____ GMT 17/0830Z	4. TYPE OF OBSERVATION ☒ Ground-Visual ☐ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar		☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft
5. PHOTOS ☐ Yes ☒ No	6. SOURCE Military USS Lansing		☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical
7. LENGTH OF OBSERVATION 16 min	8. NUMBER OF OBJECTS one	9. COURSE NE	☒ Other <u>SATELLITE (ECHO I)</u> ☐ Insufficient Data for Evaluation ☐ Unknown
10. BRIEF SUMMARY OF SIGHTING UFO intensity and appearance of 1st mag Star or planet observed at 290 deg azimuth 20 deg elevation fading 16 min later at 355 deg azimuth 35 deg elevation (?). Lost in cloud. Sky coverage.6/		11. COMMENTS ECHO I crossed equator at 0808Z heading NE at 227.6 (133 deg East Longitude) and would be in position for the observation as described. Case evaluated as ECHO I observation.	

NNNN

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UNCLASSIFIED MESSAGE

INCOMING

PAGE 1 of 2

AF IN : 2170 (17 Jun 63) S/bfb

INFO : NIN-9, XOP-1, XOPX-4, SAF-OS-3, ARMY-2, CMC-8, JCS-35, OSD-15,
CIA-11, NSA-7, DIA-25, DIA-CIIC-2 (123)

SMB A024

ZCHQA682ZCECA078

..... YY RUEAHQ

DE RUHPF B026

ZNR

Y 171001Z

FM COMBARPAC

TO RUHPHH/COMHAWSEAFRON

RUHLKM/CINCPACAF

RUUAUAH/HADD KUNIA

ZEN/C INCNORAD

INFO RUECW/CNO

RUEAHQ/C OFS USAF

RUHPA/C INCPAC

RUHPB/C INCPACFLT

RUHAFS/CINCUSARPAC

RUHLKMP/PACAFBASECOM HICKMAN

RUECW/SECNAV

NAVY GRNC

BT

16 17/08302
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AF IN : 2201 (17 Jun 63) **INCOMING**

Page 1 of 2

INFO : NIN-9, XOP-1, XOPX-4, SAF-OS-3, ARMY-2, CMC-8, JCS-35,
OSD-15, DIA-25, DIA-CIIC-2, CIA-11, NSA-7 (23)

01

SSB; B066KHA574

OO RUEAHQ

DE RUHLKH 5

ZNR

O 171036Z

FM 326 AIR DIV KUNIA FACILITY HAWAII

TO RUHLKM/PACAF HICKAM AFB HAWAII

RUHPHH/COMHAWSEAFRON PEARL HARBOR HAWAII

INFO RUEAHQ/CSAF USAF WASH DC

RUECW/CNO WASH DC

RUECW/SECNAV WASH DC

RUWGALB/CINCNORAD ENT AFB COLO

RUHPA/CINCPAC CAMP H M SMITH HAWAII

RUHAFS/CINCUSARPAC FT SHAFTER HAWAII

RUHPB/CINCPACFLT PEARL HARBOR HAWAII

RUAUAZ/COMUSJAPAN FUCHU AS JAPAN

RUAMC/COMUSKOREA SEOUL KOREA

RUAGFL/COMUSTDC TAIPEI TAIWAN

AF GRNC

BT

UNCLAS

A. HADOC-D 1074

1. MERINT

2. USS LANSING

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INCOMING

AF IN : 2170 (17 Jun 63)

PAGE 2 of 2

UUNCLAS.

A. JANAP 146D

1. MERINT

2. USS LANSING DER 388

3. VB UFO STRENGTH ONE INITIALLY SIGHTED BEARING 290
POSIT ANGLE 20. FADED BEARING 355 POSIT ANGLE 35 DEGREES.
OBJECT SIMILAR IN APPEARANCE TO FIRST MAGNITUDE STAR OR
PLANET LOST IN CLOUD.

4. 28-00N 162-00W

5. 170830Z TO 170836Z

6. UNK

7. UNK

8. UNK

9. NONE

10. SKY COVERAGE SIX TENTHS NO UNUSUAL WEATHER. SEAS
2 FEET.

BT

17/1002Z

NOTE: ADVANCE COPY DELIVERED TO XOPX, NIN, & DIA

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Page 2 of 2

AF IN : 2201 (17 Jun 63)

3. INITIAL BEARING 290 DEGREES PASSING 20 DEGREE
ANGLE LATER BEARING 355 DEGREES. OBJECT
SIMILIAR IN APPEARANCE TO FIRST MAGNITUDE STAR.
PLANET LOST IN CLOUDS

4. 28 DEGREES NORTH 162 DEGREES WEST

5. 17/0830Z TO 17/0836

6. NONE

7. NONE

8. NONE

9. NONE

10. 6/10 SKY COVERAGE

11. NO UNUSUAL WEATHER

12. 17/0946

BT

17/1040Z JUN RUHLKH

NOTE: Advance copies delivered to DIA, NIN & XOPX.

16 17/0832
NNNN

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01

AF IN : 3629 (18 Jun 63) C/no

PAGE 1 OF 2

ACTION: NIN-9

INFO : XOP-1, XOPX-4, ~~SAF-OS-3~~, ARMY-2, NAVY-2, CMC-8, JCS-35,
OSD-15, CIA-11, ~~NSA-7~~, DIA-25, DIA-CIIC-2, SMB-1 (126)

SMB C103

878ZCJJG944

OO RUEAHQ

ZNR ZDK RUHLKH

KHA574

OO RUHLKM RUEAHQ RUECW RUHPHH RUHPB RUHPA RUUAZ RUWGALB RUHAFS
DE RUHLKH 5

ZNR

O 171036Z

FM 326 AIR DIV KUNIA FACILITY HAWAII

TO RUHLKM/PACAF HICKAM AFB HAWAII

RUHPHH/COMHAWSEAFRON PEARL HARBOR HAWAII

INFO RUEAHQ/CSAF USAF WASH DC

RUECW/CNO WASH DC

RUECW/SECNAV WASH DC

RUWGALB/CINCNOAD ENT AFB COLO

RUHPA/CINCPAC CAMP H M SMITH HAWAII

RUHAFS/CINCUSARPAC FT SHAFTER HAWAII

RUHPB/CINCPACFLT PEARL HARBOR HAWAII

RUUAZ/COMUSJAPAN FUCHU AS JAPAN

RUAMC/COMUSKOREA SEOUL KOREA

RUAGFL/COMUSTDC TAIPEI TAIWAN

RUCSBRB/CINCSAC OFFUTT AFB NEBR

SATELLITE 1960 IOTA 1 FOR OTHER LATITUDES										
EQUATOR S-N		LAT.	SOUTH-NORTH				NORTH-SOUTH			
TIME (UT)	LONG. (M)		TIME CORR.	LONG. CORR.	HT. (M)	BEAR. (N-E)	TIME CORR.	LONG. CORR.	HT. (M)	BEAR. (N-E)
JUNE 16, 1963										
1 27.1	121.92	47.4	28.7	-82.72	1088	90.0°	28.7	-82.78	1088	90.0°
3 22.2	151.03	45.0	23.2	-80.86	1026	72.3°	34.3	-104.98	1135	107.7°
5 17.7	180.14	40.0	18.9	-45.85	969	60.7°	38.9	-119.73	1158	119.4°
7 12.3	209.24	35.0	15.7	-36.05	929	54.0°	42.3	-129.26	1164	126.1°
9 7.3	238.35	30.0	13.1	-28.73	887	49.4°	45.3	-136.51	1167	130.7°
11 2.4	267.46	20.0	8.4	-17.42	820	43.7°	50.7	-147.65	1159	136.5°
13 57.4	296.56	0.	0.	0.	720	40.0°	60.3	-164.75	1083	140.2°
14 52.5	325.67	-20.0	-8.1	17.49	664	43.8°	-45.6	148.94	974	136.4°
16 47.6	354.78	-30.0	-12.4	28.89	656	49.5°	-40.7	137.88	909	130.6°
18 42.6	383.88	-35.0	-14.8	36.28	658	54.1°	-38.0	130.35	872	126.0°
20 37.7	412.99	-40.0	-17.6	45.98	666	60.8°	-35.0	120.72	832	119.3°
22 32.7	442.09	-45.0	-21.4	61.32	688	72.4°	-31.0	105.43	782	107.6°
		-47.4	-26.1	83.37	728	90.0°	-26.1	83.41	728	90.0°

JUNE 17, 1963										
0 27.8	111.20	47.4	28.5	-82.76	1078	90.0°	28.5	-82.80	1078	90.0°
2 22.8	140.31	45.0	23.0	-80.90	1013	72.3°	34.2	-104.63	1129	107.7°
4 17.9	169.41	40.0	18.8	-45.68	955	60.7°	38.7	-119.77	1156	119.4°
6 12.9	198.52	35.0	15.7	-36.07	910	54.0°	42.2	-129.30	1167	126.1°
8 8.0	227.62	30.0	13.0	-28.74	871	49.4°	45.1	-136.55	1170	130.7°
10 3.1	256.73	20.0	8.3	-17.43	805	43.7°	50.5	-147.70	1159	136.5°
11 58.1	285.84	0.	0.	0.	708	40.0°	60.1	-164.78	1095	140.2°
13 53.2	314.94	-20.0	-8.0	17.50	658	43.8°	-45.6	148.92	989	136.4°
15 48.2	344.05	-30.0	-12.4	28.90	652	49.5°	-40.7	137.87	923	130.6°
17 43.3	373.15	-35.0	-14.8	36.29	657	54.1°	-38.0	130.33	886	126.0°
19 38.3	402.26	-40.0	-17.6	45.99	667	60.8°	-35.0	120.71	845	119.3°
21 33.4	431.36	-45.0	-21.3	61.33	692	72.4°	-31.0	105.43	793	107.6°
23 28.4	460.47	-47.4	-26.1	83.38	736	90.0°	-26.1	83.41	736	90.0°

JUNE 18, 1963										
1 23.5	129.57	47.4	25.4	-82.81	1067	90.0°	28.4	-82.86	1067	90.0°
3 18.5	158.67	45.0	22.9	-80.93	999	72.3°	34.0	-104.68	1122	107.7°
5 13.6	187.78	40.0	18.6	-45.71	939	60.7°	38.5	-119.82	1152	119.4°
7 8.6	216.88	35.0	15.6	-36.10	894	54.0°	41.9	-129.35	1166	126.1°
9 3.7	245.99	30.0	12.9	-28.76	855	49.4°	44.9	-136.60	1172	130.7°
10 58.7	275.09	20.0	8.3	-17.44	790	43.7°	50.3	-147.75	1166	136.5°
12 53.8	304.20	0.	0.	0.	696	40.0°	60.0	-164.82	1108	140.2°
14 48.8	333.30	-20.0	-8.0	17.51	651	43.8°	-45.7	148.90	1005	136.4°
16 43.8	362.40	-30.0	-12.3	28.91	650	49.5°	-40.8	137.85	959	130.6°
18 38.9	391.51	-35.0	-14.7	36.30	656	54.1°	-38.1	130.33	901	126.0°
20 33.9	420.61	-40.0	-17.5	46.00	669	60.8°	-35.0	120.71	859	119.3°
22 29.0	449.71	-45.0	-21.3	61.34	697	72.4°	-31.0	105.43	805	107.6°
		-47.4	-26.1	83.38	745	90.0°	-26.1	83.42	745	90.0°

JUNE 19, 1963										
0 24.0	118.82	47.4	28.2	-82.85	1055	90.0°	28.2	-82.88	1056	90.0°
2 19.1	147.92	45.0	22.8	-80.97	985	72.3°	33.8	-104.72	1114	107.7°
4 14.1	177.02	40.0	18.5	-45.74	924	60.7°	38.3	-119.87	1148	119.4°
6 9.2	206.13	35.0	15.5	-36.12	878	54.0°	41.8	-129.40	1165	126.1°
8 4.2	235.23	30.0	12.8	-28.78	840	49.4°	44.7	-136.65	1173	130.7°
9 59.2	264.33	20.0	8.2	-17.45	775	43.8°	50.1	-147.79	1171	136.5°
11 54.3	293.44	0.	0.	0.	686	40.0°	59.8	-164.86	1120	140.2°
13 49.3	322.54	-20.0	-8.0	17.51	646	43.8°	-45.8	148.87	1019	136.4°
15 44.4	351.64	-30.0	-12.3	28.92	648	49.5°	-40.9	137.83	954	130.6°
17 39.4	380.74	-35.0	-14.7	36.31	657	54.1°	-38.1	130.32	916	126.0°
19 34.4	409.85	-40.0	-17.5	46.00	672	60.8°	-35.1	120.70	873	119.3°
21 29.5	438.95	-45.0	-21.3	61.35	702	72.4°	-31.0	105.42	817	107.6°
23 24.5	468.05	-47.4	-26.1	83.38	754	90.0°	-26.1	83.42	754	90.0°

SATELLITE 1960 IOTA 1										
EQUATOR		FOR OTHER LATITUDES								
S-N		LAT.	SOUTH-NORTH				NORTH-SOUTH			
TIME	LONG.		TIME	LONG.	HT.	BEAR.	TIME	LONG.	HT.	BEAR.
(UT)	(M)		CORR.	CORR.	(M)	(N-E)	CORR.	CORR.	(M)	(N-E)
JUNE 20, 1963										
1 19.6	137.15	47.4	28.0	-82.89	1042	90.0°	28.0	-82.93	1042	90.0°
3 14.6	166.25	45.0	22.6	-81.00	969	72.3°	33.6	-104.77	1106	107.7°
5 9.6	195.36	40.0	18.4	-45.77	907	60.7°	38.1	-119.89	1142	119.4°
7 4.7	224.46	35.0	15.6	-36.15	861	54.0°	41.5	-129.48	1162	126.1°
9 59.7	253.56	30.0	12.8	-28.80	823	49.4°	44.9	-136.71	1172	130.7°
10 54.8	282.66	20.0	8.2	-17.47	760	43.8°	49.9	-147.85	1176	136.5°
12 49.8	311.76	0.	0.	0.	675	40.0°	59.6	-164.91	1132	140.2°
14 44.8	340.86	-20.0	-8.0	17.52	641	43.8°	-46.0	148.84	1094	136.4°
16 39.9	369.96	-30.0	-12.3	28.93	647	49.5°	-40.9	137.81	970	130.6°
18 34.9	399.06	-35.0	-14.7	36.32	650	54.1°	-38.2	130.30	932	126.0°
20 29.9	428.17	-40.0	-17.5	46.01	676	60.8°	-35.1	120.69	888	119.3°
22 25.0	457.27	-45.0	-21.3	61.35	710	72.4°	-31.0	105.42	831	107.6°
		-47.4	-26.1	83.38	765	90.0°	-26.1	83.42	765	90.0°

JUNE 21, 1963										
0 20.0	126.37	47.4	27.9	-82.93	1029	90.0°	27.9	-82.97	1029	90.0°
2 15.0	155.47	45.0	22.5	-81.04	954	72.3°	33.4	-104.82	1095	107.7°
4 10.1	184.57	40.0	18.3	-45.80	891	60.7°	37.9	-119.90	1136	119.4°
6 5.1	213.67	35.0	15.3	-36.17	846	54.0°	41.3	-129.51	1158	126.1°
8 0.1	242.77	30.0	12.7	-28.82	808	49.4°	44.3	-136.74	1171	130.7°
9 55.2	271.87	20.0	8.1	-17.48	746	43.8°	49.7	-147.90	1179	136.5°
11 50.2	300.97	0.	0.	0.	645	40.0°	59.5	-164.96	1143	140.2°
13 45.2	330.07	-20.0	-7.9	17.52	638	43.8°	-46.1	148.81	1090	136.4°
15 40.3	359.17	-30.0	-12.2	28.93	647	49.5°	-41.0	137.59	986	130.6°
17 35.3	388.27	-35.0	-14.7	36.33	649	54.1°	-38.3	130.28	948	126.0°
19 30.3	417.37	-40.0	-17.4	46.02	680	60.8°	-35.2	120.67	909	119.3°
21 25.3	446.47	-45.0	-21.2	61.35	717	72.4°	-31.1	105.41	844	107.6°
23 20.4	475.57	-47.4	-26.1	83.38	775	90.0°	-26.1	83.42	775	90.0°

JUNE 22, 1963										
1 15.4	144.67	47.4	27.7	-82.98	1014	90.0°	27.7	-83.01	1015	90.0°
3 10.4	173.77	45.0	22.3	-81.07	937	72.3°	33.2	-104.87	1081	107.7°
5 5.5	202.86	40.0	18.2	-45.82	874	60.7°	37.7	-120.03	1128	119.4°
7 0.5	231.96	35.0	15.2	-36.19	829	54.0°	41.1	-129.57	1153	126.1°
8 55.5	261.06	30.0	12.6	-28.84	791	49.4°	44.1	-136.82	1169	130.7°
10 50.5	290.16	20.0	8.1	-17.49	731	43.8°	49.4	-147.96	1182	136.5°
12 45.6	319.26	0.	0.	0.	638	40.1	59.3	-164.91	1154	140.2°
14 40.6	348.36	-20.0	-7.9	17.53	635	43.8°	-46.2	148.77	1086	136.4°
16 35.6	377.46	-30.0	-12.2	28.94	648	49.5°	-41.2	137.56	1003	130.6°
18 30.6	406.56	-35.0	-14.6	36.33	663	54.1°	-38.4	130.24	966	126.0°
20 25.7	435.65	-40.0	-17.4	46.02	696	60.8°	-35.3	120.65	919	119.3°
22 20.7	464.75	-45.0	-21.2	61.36	726	72.4°	-31.1	105.40	859	107.6°
		-47.4	-26.1	83.38	788	90.0°	-26.1	83.41	788	90.0°

MODIFIED ORBITAL ELEMENTS FOR EARTH SATELLITE 1960 IOTA 1

REFERENCE TIME 1963 Y 4 M 8 D 1 H 17.66 M UT
 INCLINATION 47.24 DEG.
 ASCENDING NODE (LONG.) 85.24 DEG. WEST
 PRIME SWEEP INTERVAL ONE DAY -16.98 MIN.
 ARGUMENT OF PERIGEE 288.04 DEG.
 RATE OF CHANGE 0.27099 DEG. PER PERIOD
 ANOMALISTIC PERIOD 115.187 MIN.
 RATE OF CHANGE -0.00046 MIN. PER PERIOD
 ECCENTRICITY 0.04747
 RADIUS OF PERIGEE 4641.1 MILES
 RADIUS OF APOGEE 5103.7 MILES
 RATE OF CHANGE -0.32 MILES PER DAY
 ASCENDING NODE (R.A.) 189.6

DEPARTMENT OF THE AIR FORCE
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INCOMING

AF IN : 3629 (18 Jun 63)

PAGE 2 OF 2

AF GRNC

BT

UNCLAS

A. HADOC-D 1074

1. MERINT

2. USS LANSING

3. INITIAL BEARING 290 DEGREES PASSING 20 DEGREE

ANGLE LATER BEARING 355 DEGREES. OBJECT

SIMILIAR IN APPEARANCE TO FIRST MAGNITUDE STAR.

PLANET LOST IN CLOUDS

4. 28 DEGREES NORTH 162 DEGREES WEST

5. 17/0830Z TO 17/0836

6. NONE

7. NONE

8. NONE

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12. 17/0946

BT

17/1040Z JUN RUHLKVV

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