

PROJECT 10073 RECORD CARD

1. DATE 26 June 1963	2. LOCATION 31.45N 176.25W (Pacific)		12. CONCLUSIONS ☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon ☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft ☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical ☐ Other _____ ☒ Insufficient Data for Evaluation ☐ Unknown
3. DATE-TIME GROUP Local _____ GMT 26/1540Z	4. TYPE OF OBSERVATION ☐ Ground-Visual ☐ Ground-Radar ☒ Air-Visual ☐ Air-Intercept Radar		
5. PHOTOS ☐ Yes ☒ No	6. SOURCE Military		
7. LENGTH OF OBSERVATION not reported	8. NUMBER OF OBJECTS one	9. COURSE 130 dgr	
10. BRIEF SUMMARY OF SIGHTING Pin head sized white light observed at 20dgr elevation fm a/c. Course of 130dgr true. No other information. No evaluation by Navy.		11. COMMENTS Echo not in area having crossed the equator heading North East about one hour earlier at 2005 0600. Duration & other essential data missing for evaluation.	

26/15402
DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

01
PAGE 1 OF 2

AF IN : 15345 (26 Jun 63) **INCOMING**

INFO : NIN-9, XOP-1, XOPX-4, SAF-OS-3, ARMY-2, CMC-8, JCS-35, OSD-15,
NSA-7, DIA-25, DIA/CIIC-2 (112)

SMB A178

CHQA393ZCECB342

..... YY RUEAHQ

DE RUHPF B058

ZNR

Y 261647Z

FM COMBARPAC

TO RUHPHH/COMHAWSEAFRON

RUHLKM/CINCPACAF

RUUAUAAH/HADD KUNIA

ZEN/CINCNOAD

INFO RUECW/CNO

RUEAHQ/COFS USAF

RUHPA/CINCPAC

RUHPB/CINCPACFLT

RUHAFS/CINCUSARPAC

RUHLKMP/PACAFBASECOM HICKMAN

RUECW/SECNAV

NAVY GRNC

BT

14.42.6 0603
+ 58. -165

-159° E
EQUATOR
HAWAII

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

PAGE 2 OF 2

AF IN : 15345 (26 Jun 63) **INCOMING**
NNNN

UNCLAS.

A. JANAP 146D

1. CIRVIS REPORT
2. V143218 BARRIER AIRCRAFT
3. PIN HEAD SIZE OBJECT WHITE LIGHT
4. 31-45N 176-25W
5. 261540Z
6. ELEVATION 20 DEGREES
- 7 130 DEGREES TRUE
8. UNKNOWN
9. UNKNOWN

BT

26/1648Z

NOTE : ADVANCE COPIES DELIVERED TO NIN, XOPX & DIA.
XMITT TO CIA.

DEPARTMENT OF THE AIR FORCE

STAFF MESSAGE BRANCH

UNCLASSIFIED MESSAGE

AF IN : 15352 (26 Jun 63)

INFO : NIN-9, XOP-1, XOPX-4, ~~SAF-OS-3~~ ARMY-2, CMC-8, JCS-35, OSD-15,
NSA-7, DIA-25, DIA/CIIC-2 (112)

INCOMING

SMB C149

CZCHQA394ZCECA336

.....YY RUEAHQ

DE RUHPF B059

ZNR

Y 261701Z

FM COMBARPAC

TO RUHPHH/COMHAWSEAFRON

RUHLKM/CINCPACAF

RUUAUAH/HADD KUNIA

ZEN/CINCNORAD

INFO RUECW/CNO

RUEAHQ/COFS USAF

RUHPA/CINCPAC

RUHPB/CINCPACFLT

RUHAFS/CINCUSARPAC

RUHLKMP/PACAFBASECOM HICKMAN

RUECW/SECNAV

NAVY GRNC

BT

UNCLAS.

A. JANAP 146D

1. CIRVIS EVALUATION

2. 261647Z

3. UNKNOWN

BT NOTE: ADVANCE COPIES DELIVERED TO XOPX, NIN & DIA. XMIT TO CIA.

02

AF IN : 15434 (26 June 63) DEPARTMENT OF THE AIR FORCE

STAFF MESSAGE BRANCH
INFO : NIN-9, DIA-25, DIA-21, XOP-1, XOPX-4, SAF-OS-3, JCS-35,
ARMY-2, CMC-8, OSD-15, NSA-7 (112)

SMB B204

CHQA402ZCQJA834

OO RUEAHQ

DE RUHLKH 8

ZNR

O 261726Z

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

RUAUAZ/COMUSJAPAN FUCHU AS JAPAN

RUAMC/COMUSKOREA SEOUL KOREA

RUAGFL/COMUSTDC TAIPEI TAIWAN

RUCSBRB/CINCSAC OFFUTT AFB NEBR

RUHPD/COMASWFORPAC FORD ISLAND HAWAIPP

AF GRNC

BT

UNCLAS

1. CIRVIS REPORT CORRECTION

2. 26/1540Z

3. ITEM THREE SHOULD READ PLN HEAD

SIZE OBJECTS, WHITE LIGHT"

BT NOTE : ADVANCE COPY DELIVERED TO DIA, NIN & XOPX
RETRANSMITTED TO CIA

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

NNNN

I N C O M I N G

AF IN : 15448 (26 June 63) N/dfc

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INFO : NIN-9, XOP-1, XOPX-4, SAF-OS-3, ARMY-2, CMC-8, JCS 35, OSD-15,
NSA-7, DIA-25, DIA CIIC-2 (112)

SMB C160

LKA037KHA029

OO RUEAHQ

DE RUHLKH 7

ZNR

O 261712Z

FM 326 AIR DIV KUNIA FACILITY HAWAII

TO RUHLKM/PACAF HICKAM AFB HAWAII

RUHPHH/COMHAASEAFRON 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/CINNUSARPAC FT SHAFTER HAWAII

RUHPB/CINNPACFLT PEARL HARBOR HAWAII

RUAUAZ/COMUSJAPAN FUCHU AS JAPAN

RUAMC/COMUSKOREA SEOUL KOREA

RUAGFL/COMUSTDC TAIPEI TAIWAN

RUCSBRB/CINCSAC OFFUTT AFB NEBR

RUHPDJ/COMASWFORPAC FORD ISLAND HAWAII

AF GRNC

BT

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

INCOMING

AF IN : 15448 (26 June 63)

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NNNN

UNCLAS

JANAP 146D

1. CIRVIS REPORT
2. V43318 BARRIER AIRCRAFT
3. PEN HEAD, 5 OBJECTS
4. 31.45N 176.25W
5. 26/1540Z

JYM ELVATION 20 DEGREES ABOVE HORIZATION

7. 130 DEGREES TRUE
8. UNKNOWN
9. UNKNOWN
10. NO EVALUATION AT THIS TIME

BT

CC TO LINE 2. V43218 BARRIED AIRCRAFT

26/1718Z JUN RUHLKH

NOTE : ADV CY DEL TO DIA NIN AND XOPX.
RETRANSMITTED TO CIA.

JUNE 19, 1963

SATELLITE 1960 IOTA 1, SCHE I

These predictions are based on orbital elements revised on June 17, 1963

T₀ = June 18.0, times are in days, U.T.Argument of perigee = 322°404 + 3°4818 (t-T₀)Right ascension of ascending node = 136°883 - 3°0002 (t-T₀)

Inclination = 47°2699

Eccentricity = 0.049678 + 2.019 × 10⁻⁴ (t-T₀)

Semi-major axis = 7.841343 megameters

Mean anomaly (Rev.) = 0.33111 + 12.902001 (t-T₀) + 1.225 × 10⁻⁴ (t-T₀)²SATELLITE 1960 IOTA 1
FOR OTHER LATITUDES

S-N	SOUTH-NORTH										NORTH-SOUTH			
	LONG. (W)	LAT.	TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (N-E)	TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (N-E)				
JUNE 27, 1963														
1	146.52	47.5	27.4	-82.95	1003	90.0°	27.4	-83.00	1003	90.0°				
2	175.64	45.0	22.4	-60.70	933	72.2°	22.4	-60.70	933	72.2°				
3	204.15	40.0	18.3	-45.72	877	60.7°	18.3	-45.72	877	60.7°				
4	211.97	35.0	15.3	-36.11	836	54.0°	15.3	-36.11	836	54.0°				
5	262.98	30.0	12.7	-28.77	802	49.4°	12.7	-28.77	802	49.4°				
6	292.10	20.0	8.2	-17.45	749	43.7°	8.2	-17.45	749	43.7°				
7	321.21	0.	0.	0.	681	40.0°	0.	0.	681	40.0°				
8	350.33	-20.0	-8.0	17.48	665	43.8°	-8.0	17.48	665	43.8°				
9	379.44	-30.0	-12.4	28.86	678	49.5°	-12.4	28.86	678	49.5°				
10	408.56	-35.0	-14.8	36.23	692	54.0°	-14.8	36.23	692	54.0°				
11	437.67	-40.0	-17.6	45.89	714	60.7°	-17.6	45.89	714	60.7°				
12	466.79	-45.0	-21.5	61.14	750	72.2°	-21.5	61.14	750	72.2°				
13	495.91	-47.5	-26.4	83.30	807	90.0°	-26.4	83.30	807	90.0°				

JUNE 23, 1963

1	155.90	47.5	27.6	-82.98	989	90.0°	27.6	-83.03	989	90.0°
2	184.02	45.0	22.3	-60.92	919	72.2°	22.3	-60.92	919	72.2°
3	212.13	40.0	18.2	-45.74	862	60.7°	18.2	-45.74	862	60.7°
4	221.25	35.0	15.2	-36.13	822	54.0°	15.2	-36.13	822	54.0°
5	252.36	30.0	12.7	-28.79	787	49.4°	12.7	-28.79	787	49.4°
6	281.48	20.0	8.1	-17.45	737	43.7°	8.1	-17.45	737	43.7°
7	310.59	0.	0.	0.	675	40.0°	0.	0.	675	40.0°
8	339.70	-20.0	-8.0	17.49	665	43.8°	-8.0	17.49	665	43.8°
9	368.82	-30.0	-12.4	28.86	682	49.5°	-12.4	28.86	682	49.5°
10	397.93	-35.0	-14.8	36.23	698	54.0°	-14.8	36.23	698	54.0°
11	427.05	-40.0	-17.6	45.89	721	60.7°	-17.6	45.89	721	60.7°
12	456.16	-45.0	-21.5	61.13	760	72.2°	-21.5	61.13	760	72.2°
13	485.28	-47.5	-26.4	83.28	820	90.0°	-26.4	83.28	820	90.0°

JUNE 24, 1963

1	155.14	47.5	27.5	-83.02	974	90.0°	27.5	-83.07	974	90.0°
2	183.26	45.0	22.2	-60.95	904	72.2°	22.2	-60.95	904	72.2°
3	211.37	40.0	18.1	-45.76	847	60.7°	18.1	-45.76	847	60.7°
4	220.49	35.0	15.1	-36.14	807	54.0°	15.1	-36.14	807	54.0°
5	251.60	30.0	12.6	-28.80	772	49.4°	12.6	-28.80	772	49.4°
6	280.72	20.0	8.0	-17.46	722	43.7°	8.0	-17.46	722	43.7°
7	309.83	0.	0.	0.	670	40.0°	0.	0.	670	40.0°
8	338.95	-20.0	-8.0	17.49	660	43.8°	-8.0	17.49	660	43.8°
9	368.06	-30.0	-12.4	28.86	677	49.5°	-12.4	28.86	677	49.5°
10	397.18	-35.0	-14.8	36.23	693	54.0°	-14.8	36.23	693	54.0°
11	426.29	-40.0	-17.6	45.89	716	60.7°	-17.6	45.89	716	60.7°
12	455.41	-45.0	-21.5	61.13	755	72.2°	-21.5	61.13	755	72.2°
13	484.52	-47.5	-26.4	83.27	814	90.0°	-26.4	83.27	814	90.0°

JUNE 25, 1963

1	143.76	47.5	27.4	-83.05	960	90.0°	27.4	-83.10	960	90.0°
2	171.87	45.0	22.1	-60.98	890	72.2°	22.1	-60.98	890	72.2°
3	200.00	40.0	18.0	-45.78	833	60.7°	18.0	-45.78	833	60.7°
4	208.12	35.0	15.0	-36.16	793	54.0°	15.0	-36.16	793	54.0°
5	239.23	30.0	12.5	-28.81	758	49.4°	12.5	-28.81	758	49.4°
6	268.35	20.0	8.0	-17.47	708	43.7°	8.0	-17.47	708	43.7°
7	297.46	0.	0.	0.	665	40.0°	0.	0.	665	40.0°
8	326.58	-20.0	-8.0	17.49	655	43.8°	-8.0	17.49	655	43.8°
9	355.69	-30.0	-12.4	28.86	672	49.5°	-12.4	28.86	672	49.5°
10	384.81	-35.0	-14.8	36.23	688	54.0°	-14.8	36.23	688	54.0°
11	413.92	-40.0	-17.6	45.89	711	60.7°	-17.6	45.89	711	60.7°
12	443.04	-45.0	-21.5	61.13	750	72.2°	-21.5	61.13	750	72.2°
13	472.15	-47.5	-26.4	83.26	809	90.0°	-26.4	83.26	809	90.0°

SATELLITE 1960 IOTA 1
FOR OTHER LATITUDES

EQUATOR				FOR OTHER LATITUDES							
S-N				SOUTH-NORTH		NORTH-SOUTH					
TIME (UT)	LONG. (W)	LAT.	TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (N-E)	TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (N-E)	
JUNE 26, 1963											
1	17.0	162.23	47.5	27.2	-83.09	944	90.0°	27.2	-83.14	944	90.0°
3	12.1	191.35	45.0	22.0	-61.00	873	72.2°	32.6	-105.18	1014	107.8°
5	7.2	220.46	40.0	18.0	-45.80	818	60.7°	37.0	-120.30	1063	119.4°
7	2.3	249.57	35.0	15.0	-36.17	780	54.0°	40.3	-129.84	1094	126.1°
8	57.4	278.69	30.0	12.5	-28.82	751	49.4°	43.2	-137.09	1117	130.7°
10	52.4	307.80	20.0	8.0	-17.47	706	43.8°	48.5	-148.23	1146	136.5°
12	47.5	336.91	0.	0.	0.	662	40.0°	58.2	-165.28	1155	140.3°
14	42.6	366.03	-20.0	-8.0	17.49	671	43.9°	-47.3	148.53	1104	136.5°
16	37.7	395.14	-30.0	-12.4	28.86	699	49.5°	-42.1	137.16	1056	130.7°
18	32.8	424.25	-35.0	-14.8	36.23	720	54.0°	-34.3	130.09	1025	126.1°
20	27.9	453.36	-40.0	-17.6	45.87	749	60.7°	-36.1	120.53	987	119.4°
22	22.9	482.48	-45.0	-21.6	61.11	795	72.2°	-31.9	105.37	932	107.8°
			-47.5	-26.6	83.23	861	90.0°	-26.7	81.28	862	90.0°

JUNE 27, 1963

1	18.0	151.59	47.5	27.1	-83.12	930	90.0°	27.1	-83.17	930	90.0°
2	13.1	180.70	45.0	21.9	-61.03	858	72.2°	21.9	-61.03	858	72.2°
3	8.2	209.81	40.0	17.9	-45.82	804	60.7°	17.9	-45.82	804	60.7°
4	3.3	238.93	35.0	15.0	-36.19	768	54.0°	15.0	-36.19	768	54.0°
5	58.3	268.04	30.0	12.5	-28.83	739	49.4°	12.5	-28.83	739	49.4°
6	53.4	297.15	20.0	8.0	-17.48	698	43.8°	8.0	-17.48	698	43.8°
7	48.5	326.26	0.	0.	0.	659	40.0°	0.	0.	659	40.0°
8	43.6	355.38	-20.0	-8.0	17.49	675	43.9°	-8.0	17.49	675	43.9°
9	38.7	384.49	-30.0	-12.4	28.86	705	49.4°	-12.4	28.86	705	49.4°
10	33.7	413.60	-35.0	-14.8	36.27	728	54.0°	-14.8	36.27	728	54.0°
11	28.8	442.71	-40.0	-17.7	45.88	759	60.7°	-17.7	45.88	759	60.7°
12	23.9	471.83	-45.0	-21.6	61.09	808	72.2°	-21.6	61.09	808	72.2°
13	19.0	500.94	-47.5	-26.7	83.22	875	90.0°	-26.7	83.22	875	90.0°

JUNE 28, 1963

1	14.0	170.05	47.5	27.0	-83.15	916	90.0°	27.0	-83.20	916	90.0°
2	9.1	199.16	45.0	21.8	-61.05	843	72.2°	21.8	-61.05	843	72.2°
3	4.2	228.27	40.0	17.8	-45.83	790	60.7°	17.8	-45.83	790	60.7°
4	59.3	257.39	35.0	14.9	-36.20	755	54.0°	14.9	-36.20	755	54.0°
5	54.4	286.50	30.0	12.4	-28.84	728	49.4°	12.4	-28.84	728	49.4°
6	49.4	315.61	20.0	8.0	-17.48	689	43.8°	8.0	-17.48	689	43.8°
7	44.5	344.72	0.	0.	0.	657	40.0°	0.	0.	657	40.0°
8	39.6	373.83	-20.0	-8.0	17.49	679	43.9°	-8.0	17.49	679	43.9°
9	34.7	402.95	-30.0	-12.4	28.85	713	49.4°	-12.4	28.85	713	49.4°
10	29.7	432.06	-35.0	-14.9	36.21	738	54.0°	-14.9	36.21	738	54.0°
11	24.8	461.17	-40.0	-17.8	45.85	771	60.7°	-17.8	45.85	771	60.7°
12	19.9	490.28	-45.0	-21.7	61.08	821	72.2°	-21.7	61.08	821	72.2°
13	15.0	519.39	-47.5	-26.8	83.19	891	90.0°	-26.8	83.19	891	90.0°

JUNE 29, 1963

0	15.0	159.39	47.5	26.9	-83.18	899	90.0°	26.9	-83.23	899	90.1°
2	10.1	188.50	45.0	21.7	-61.07	828	72.2°	21.7	-61.05	828	72.2°
4	5.1	217.62	40.0	17.7	-45.85	777	60.7°	17.7	-45.83	777	60.7°
6	0.2	246.73	35.0	14.7	-36.21	743	54.0°	14.7	-36.19	743	54.0°
7	55.3	275.84	30.0	12.4	-28.85	718	49.4°	12.4	-28.83	718	49.4°
9	50.4	304.95	20.0	4.0	-17.49	682	43.8°	4.0	-17.47	682	43.8°
11	49.4	334.06	0.	0.	0.	655	60.0°	0.	0.	655	60.0°
13	40.5	3.17	-70.0	-7.0	17.69	596	63.9°	-7.0	17.67	596	63.9°
15	35.6	32.29	-70.0	-12.4	28.85	722	69.4°	-12.4	28.83	722	69.4°
17	30.7	61.49	-35.0	-14.7	36.21	748	54.0°	-14.7	36.19	748	54.0°
19	25.7	90.51	-10.0	-17.7	45.85	783	60.7°	-17.7	45.83	783	60.7°
21	20.7	119.62	-5.0	-21.7	61.07	834	72.2°	-21.7	61.05	834	72.2°
23	15.7	148.73	0.	0.	0.	899	90.0°	0.	0.	899	90.0°