

PROJECT 10073 RECORD CARD

1. DATE 23 April 1963		2. LOCATION Hawthorne Nevada		12. CONCLUSIONS ☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon ☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft	
3. DATE-TIME GROUP Local _____ GMT 24/0700Z		4. TYPE OF OBSERVATION ☒ Ground-Visual ☐ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar		☒ Was Astronomical meteor ☐ Probably Astronomical ☐ Possibly Astronomical	
5. PHOTOS ☐ Yes ☒ No		6. SOURCE Civilian		☐ Other _____ ☐ Insufficient Data for Evaluation ☐ Unknown	
7. LENGTH OF OBSERVATION 3-5 seconds		8. NUMBER OF OBJECTS one		9. COURSE west	
10. BRIEF SUMMARY OF SIGHTING Round light green object with sound of buzzing or humming observed at 30 dgr elevation descending to 10 dgr elevation in arc from E to W. Lighted up area. Burned out or disappeared behind mountains. In sight for 3-5 seconds.				11. COMMENTS Meteor sighting.	

1. ... CO ... CLEAR, CLOUDING ... VISIBILITY
2. ... DARKNESS AND NO THUNDERSTORMS IN AREA
3. ... ACTIVITY OR CONDITIONS
4. ...

PAGE THREE R 100000 010

1. ... CONFIRMED REPORTS OF HIGH FLYING AIR CRAFT IN AREA
2. ... TO SIGHTING OBJECT.
3. ... CITY OFFICER, WAD, HAWTHORNE, NEVADA PREPARED REPORT.
4. ... ONLY MEAGER INFORMATION AVAILABLE. POSSIBLE CAUSE OF
5. ... FLARE OR SIMILAR DEVICE RELEASED FROM
6. ... OR OBJECT ENTERING EARTH'S ATMOSPHERE AND BURNING
7. ...

24/10/48

RYCDS/ATIC WRIGHT PATTERSON AFB OHIO
RWGALE/TNT AFB COLO
IN C R 100000 0
RWSP-R/10 TWELVE
RWSP-R/10 TWELVE

3 N 111

1. DESCRIPTION OF OBJECT

- A. SHAPE WAS ROUND
- B. SIZE OF BASKETBALL
- C. COLOR WAS LIGHT GREEN
- D. G-E-R NUMBER
- E. SOUND WAS BUZZING OR HISsing
- F, G, AND I ARE NOT APPLICABLE

PAGE TWO RPT SPF 216

2. DESCRIPTION OF COURSE

- A. OBJECT SUDDENLY LIGHED UP GENERAL AREA
 - B. 30 DEGREE ANGLE OF ELEVATION UPON SIGHTING WITH EAST TO WEST COURSE
 - C. 15 DEGREE ANGLE OF ELEVATION UPON DISAPPEARANCE
 - D. STRAIGHT LINE AND DESCENDING AR
 - E. EITHER BURNED OUT OR DISAPPEARED BEHIND MOUNTAINS
 - F. IN SIGHT 3 TO 5 SECONDS
3. MANNER OF OBSERVATION WAS GROUND-VISUAL WITH NO OPTICAL AIDS
4. TIME AND DATE OF SIGHTING 242700Z WITH NIGHT LIGHT CONDITIONS
5. LOCATION OF OBSERVERS WAS 2 MILES SOUTH OF WALKER LAKE
HART ORKE, NEVADA
6. OBSERVERS WERE FIVE MILITARY MEMBERS OF NAVAL AMMUNITION
DEPOT HART ORKE NEVADA SECURITY GUARD. LOCAL POLICE ALSO
RECEIVED REPORTS FROM UNIDENTIFIED LOCAL CIVILIANS WHO
REPORTED SIMILAR SIGHTINGS.

RM 59

330105Z JULY 61

RR 8000

DE R 75PP 015

DNR

1963 APR 24 22 04

R 242000

PAWTHORNE NEV

TS RUSANDPT HQ USAF WASHDC

1) E (UFO)

7 ~ m

PROJECT 10073 RECORD CARD

1. DATE 24 April 1963		2. LOCATION Kauai, Hawaii		12. CONCLUSIONS ☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon ☒ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft ☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical ☒ Other <u>ECHO</u> ☐ Insufficient Data for Evaluation ☐ Unknown	
3. DATE-TIME GROUP Local _____ GMT 25/0605Z		4. TYPE OF OBSERVATION ☒ Ground-Visual ☐ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar			
5. PHOTOS ☐ Yes ☒ No		6. SOURCE Civilian			
7. LENGTH OF OBSERVATION Not Reported		8. NUMBER OF OBJECTS One		9. COURSE ESE	
10. BRIEF SUMMARY OF SIGHTING Starlike object, high altitude, bright moving slow from WSN to ESE. Jet a/c on high speed test run in area at this time.				11. COMMENTS Possibility of a/c, however, ECHO was visible to the SW and SE of observer at reported time.	

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

INCOMING

AF IN : 49289 (25 Apr 63)S/der

Page 1 of 2

NNNN

INFO : NIN-9, XOP-1, XOPX-4, SAF-OS-3, ARMY-2, NAVY-2, CMC-8,
JCS-35, OSD-15, CIA-11, NSA-7, DIA-20, DIA/CIIC-2 -120-

01

SMB B168

A900

OO RUECW RUKAC RUEAHQ

DE RUHLKH 7

ZNR

O 250639Z

M 326 AIR DIV KUNIA FACILITY HAWAII

TO RUHLKM/PWCAF HICKAM AFB HAWAII

RUKAC/COMALSEAFRON KODIAK ALASKA

RUWSPG/COMWESTSEAFRON SAN FRANCISCO CALIF

RUHPQ/COMHAWSEAFRON PEARL HARBOR HAWAII

INFO RUEAHQ/COFS USAF WASHINGTON DC

RUWGALB/CINCINORAD ENT AFB COLO

RUHPHQKCINCPAC CAMP H M SMITH HAWAII

RUHAFS/KINCUSARPAC FT SHAFTER HAWAII

RUHPB/CINCPACFLT PEARL HARBOR HAWAII

RUUAZ/COMUSJAPAF FUCHU AS JAPAN

RUAMCR/COMUSKOREA SEOUL KOREA

RUAGFL/COMUSTDC TAIPEI TAIWAF

RUHPD/COMASWFORPAC FORD ISLAND HAWAII

RUCSBR/CINCSAC OFFUTT AFB NEB

25 APR

0605Z

0519

318.72

0604

-138.81

30°N

181°W

30°N

181°W

⇒ SE

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

I N C O M I N G

AF IN : 49289 (25 Apr 63)

Page 2 of 2

NNNN

RUECW/CNO WASHINGTON DC

RUECW/SECNAV WASHINGTON DCN

AF GRNC

BT

UNCLAS/CIRVIS MR. [REDACTED] A NON-MILITARY RES-
VIDENT OF PORT ALLEN, KAUAI, HAWAII SIGHTED A HIGH BRIGHT OB-
JECT, STAR LIKE, MOVING SLOW FROM WEST SOUTHWEST TO EAST
SOUTHEAST AT 25/0605Z.

NO EVALUATION AT THIS TIME.

OF NOTE JET AIRCRAFT ON HIGH SPEED TEST RUNS IN THE
AREA AT THIS TIME.

BT NOTE: ADV CYS DEL TO XOPX. NIN, AND DIA.

25/0645Z APR RUHLKH

EQUATOR S-N		SATELLITE 1960 JOTA 1 FOR OTHER LATITUDES							
TIME (UT)	LONG. (W)	LAT.	TIME CORR.	LONG. CORR. (M)	HEAR. (M)	TIME CORR.	LONG. CORR. (M)	HEAR. (M)	
APRIL 21, 1963									
1 20.6	241.19	47.4	20.8	-87.69	877	20.0	-82.73	877	90.0
2 16.0	270.37	45.0	21.7	-60.87	890	72.5	-104.55	867	107.5
3 11.4	299.56	40.0	19.6	-45.56	902	60.8	-119.89	851	119.2
4 6.7	328.74	35.0	16.6	-31.90	911	56.1	-129.54	857	129.3
5 2.1	357.93	30.0	13.9	-26.57	919	49.4	-136.89	859	136.5
6 27.5	23.11	20.0	9.0	-17.29	934	43.7	-148.21	850	148.3
7 22.9	57.27	0.	0.	0.	960	39.9	-165.53	836	165.0
8 18.2	85.48	-20.0	-9.1	17.25	980	43.7	-147.88	905	147.3
9 13.6	114.66	-30.0	-14.0	28.52	986	49.4	-136.57	923	136.1
10 9.0	143.84	-35.0	-18.9	35.83	987	56.0	-129.24	923	129.0
11 4.4	173.03	-40.0	-23.0	45.43	987	60.8	-119.61	949	119.2
12 29.7	202.22	-45.0	-24.3	60.72	987	72.4	-104.31	949	107.6
		-47.4	-29.6	82.50	979	90.0	-82.54	974	90.0

APRIL 22, 1963									
0 25.1	231.40	47.4	28.9	-12.67	880	90.0	-82.71	880	90.0
1 20.5	260.58	45.0	23.8	-60.85	894	72.5	-104.53	868	107.5
2 15.8	289.77	40.0	19.7	-45.53	907	60.8	-119.87	861	119.2
3 11.2	318.95	35.0	16.6	-31.89	917	54.0	-129.52	857	129.3
4 6.6	348.13	30.0	13.9	-26.56	925	49.4	-136.87	856	136.5
5 2.0	37.32	20.0	9.0	-17.27	941	43.7	-148.20	856	148.2
6 27.3	66.50	0.	0.	0.	967	39.9	-165.56	870	165.0
7 22.7	95.69	-20.0	-9.1	17.25	984	43.7	-147.87	898	147.3
8 18.1	124.87	-30.0	-14.1	28.51	982	49.4	-136.57	917	136.1
9 13.5	154.05	-35.0	-18.8	35.83	986	56.0	-129.24	927	129.0
10 9.0	183.24	-40.0	-23.0	45.44	987	60.8	-119.61	940	119.2
11 4.2	212.42	-45.0	-24.3	60.72	987	72.4	-104.31	945	107.6
12 29.6	241.60	-47.4	-29.6	82.49	971	90.0	-82.54	971	90.0

APRIL 23, 1963									
1 24.9	250.79	47.4	29.0	-82.65	884	90.0	-82.69	883	90.0
2 20.3	279.97	45.0	23.9	-60.84	899	72.5	-104.51	870	107.5
3 15.7	309.15	40.0	19.7	-45.52	913	60.8	-119.85	861	119.2
4 11.0	338.34	35.0	16.6	-31.88	924	54.0	-129.50	856	129.3
5 6.4	367.52	30.0	13.9	-26.55	933	49.4	-136.85	854	136.5
6 1.8	39.70	20.0	9.1	-17.26	948	43.7	-148.19	853	148.2
7 27.1	68.89	0.	0.	0.	972	39.9	-165.55	864	165.0
8 22.5	98.07	-20.0	-9.1	17.24	987	43.7	-147.88	891	147.3
9 17.9	127.25	-30.0	-14.1	28.50	990	49.4	-136.58	910	136.1
10 13.2	156.43	-35.0	-18.9	35.82	989	54.0	-129.24	920	129.0
11 8.6	185.62	-40.0	-23.0	45.43	987	60.8	-119.61	933	119.2
12 3.0	214.80	-45.0	-24.3	60.72	980	72.4	-104.31	949	107.6
		-47.4	-29.6	82.49	967	90.0	-82.53	967	90.0

APRIL 24, 1963									
0 29.3	240.98	47.4	29.0	-82.63	888	90.0	-82.67	884	90.0
1 24.7	270.16	45.0	23.9	-60.82	905	72.5	-104.49	872	107.5
2 20.1	299.35	40.0	19.8	-45.50	919	60.8	-119.83	862	119.2
3 15.4	328.53	35.0	16.7	-31.87	930	54.0	-129.48	856	129.3
4 10.8	357.71	30.0	14.0	-26.54	939	49.4	-136.83	853	136.5
5 6.2	38.89	20.0	9.1	-17.26	955	43.7	-148.16	850	148.2
6 1.5	68.08	0.	0.	0.	978	39.9	-165.53	858	165.0
7 26.9	97.26	-20.0	-9.2	17.24	990	43.7	-147.89	884	147.3
8 22.3	126.44	-30.0	-14.1	28.50	991	49.4	-136.59	903	136.1
9 17.6	155.62	-35.0	-18.9	35.81	989	54.0	-129.25	914	129.0
10 13.0	184.81	-40.0	-23.1	45.43	986	60.8	-119.61	927	119.2
11 8.4	214.00	-45.0	-24.3	60.71	977	72.4	-104.31	944	107.6
12 3.7	243.17	-47.4	-29.6	82.49	962	90.0	-82.53	962	90.0

EQUATOR S-N		SATELLITE 1960 JOTA 1 FOR OTHER LATITUDES							
TIME (UT)	LONG. (W)	LAT.	TIME CORR.	LONG. CORR. (M)	HEAR. (M)	TIME CORR.	LONG. CORR. (M)	HEAR. (M)	
APRIL 25, 1963									
1 24.1	240.19	47.4	29.1	-82.61	891	90.0	-82.65	893	90.0
2 19.5	269.37	45.0	24.0	-60.80	911	72.5	-104.47	876	107.5
3 14.8	298.56	40.0	19.8	-45.49	927	60.8	-119.80	864	119.2
4 10.2	327.74	35.0	16.7	-31.86	938	54.0	-129.46	857	129.3
5 5.6	356.93	30.0	14.0	-26.53	947	49.4	-136.81	852	136.5
6 1.0	38.11	20.0	9.1	-17.25	962	43.7	-148.13	867	148.2
7 26.4	67.30	0.	0.	0.	983	39.9	-165.51	882	165.0
8 21.8	96.48	-20.0	-9.2	17.24	993	43.7	-147.80	897	147.3
9 17.2	125.66	-30.0	-14.1	28.49	991	49.4	-136.59	899	136.1
10 12.6	154.84	-35.0	-18.9	35.81	989	54.0	-129.25	906	129.0
11 8.0	184.03	-40.0	-24.1	45.42	983	60.8	-119.61	919	119.2
12 3.4	213.21	-45.0	-24.3	60.71	974	72.4	-104.31	937	107.6
		-47.4	-29.6	82.40	951	90.0	-82.51	951	90.0

APRIL 26, 1963									
0 23.8	250.19	47.4	29.2	-82.55	894	90.0	-82.64	899	90.0
1 19.2	279.37	45.0	24.1	-60.79	910	72.5	-104.45	870	107.5
2 14.6	308.56	40.0	19.9	-45.48	926	60.8	-119.79	866	119.2
3 10.0	337.74	35.0	16.8	-31.85	935	54.0	-129.44	850	129.3
4 5.4	366.93	30.0	14.0	-26.52	944	49.4	-136.79	852	136.5
5 0.8	39.11	20.0	9.1	-17.25	963	43.7	-148.11	868	148.2
6 26.2	68.30	0.	0.	0.	980	39.9	-165.49	866	165.0
7 21.6	97.48	-20.0	-9.2	17.23	994	43.7	-147.82	870	147.3
8 17.0	126.66	-30.0	-14.1	28.49	991	49.4	-136.61	885	136.1
9 12.4	155.84	-35.0	-18.9	35.81	987	54.0	-129.27	899	129.0
10 8.0	185.03	-40.0	-24.1	45.42	991	60.8	-119.63	912	119.2
11 3.4	214.21	-45.0	-24.3	60.71	969	72.4	-104.32	930	107.6
12 27.8	243.39	-47.4	-29.6	82.49	951	90.0	-82.53	951	90.0

APRIL 27, 1963									
1 23.1	249.38	47.4	29.3	-82.57	905	90.0	-82.61	905	90.0
2 18.5	278.57	45.0	24.1	-60.77	926	72.4	-104.42	884	107.5
3 13.9	307.75	40.0	19.9	-45.46	942	60.8	-119.75	873	119.2
4 8.3	336.93	35.0	16.8	-31.83	953	54.0	-129.40	860	129.3
5 3.7	366.11	30.0	14.1	-26.51	962	49.4	-136.76	854	136.5
6 0.1	39.29	20.0	9.2	-17.24	976	43.7	-148.08	865	148.2
7 25.5	68.47	0.	0.	0.	993	39.9	-165.47	861	165.0
8 20.9	97.65	-20.0	-9.2	17.23	996	43.7	-147.85	863	147.3
9 16.3	126.83	-30.0	-14.2	28.49	990	49.4	-136.62	880	136.1
10 11.7	156.01	-35.0	-18.9	35.80	984	54.0	-129.28	890	129.0
11 7.1	185.19	-40.0	-24.1	45.42	977	60.8	-119.64	906	119.2
12 2.5	214.37	-45.0	-24.3	60.71	964	72.4	-104.33	922	107.6
		-47.4	-29.6	82.49	944	90.0	-82.54	944	90.0

MODIFIED ORBITAL ELEMENTS FOR EARTH SATELLITE 1960 JOTA 1

REFERENCE TIME 1963 Y. 4 M 13 D 1 H 24.29 M UT
 INCLINATION 47.00 DEG.
 ASCENDING NODE (1156.4) 209.36 DEG. WEST
 PERIOD 109.92 MIN.
 ARGUMENT OF PERIGEE 85.85 DEG.
 RATE OF CHANGE 0.45413 DEG. PER PERIOD
 ANOMALISTIC PERIOD 115.539 MIN.
 RATE OF CHANGE -0.00017 MIN. PER PERIOD
 ECCENTRICITY 0.0057
 RADIUS OF PERIGEE 4835.6 MILES
 RADIUS OF APOGEE 4920.1 MILES
 RATE OF CHANGE -0.12 MILES PER DAY
 ASCENDING NODE (1156.4) 13.34 DEG.
 RATE OF CHANGE -4.26940 DEG. PER DAY
 LATITUDE OF PERIGEE 47.04 DEG.