

PROJECT 10073 RECORD CARD

1. DATE 22 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 _____ ☐ Insufficient Data for Evaluation ☐ Unknown	
3. DATE-TIME GROUP Local _____ GMT 23/0608Z		4. TYPE OF OBSERVATION ☒ Ground-Visual ☐ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar			
5. PHOTOS ☐ Yes ☒ No		6. SOURCE Civilian			
7. LENGTH OF OBSERVATION 4 minutes		8. NUMBER OF OBJECTS one		9. COURSE SE or E	
10. BRIEF SUMMARY OF SIGHTING Reddish light same size as star in flight to SE or E observed at 80 dgr elevation in NW.				11. COMMENTS Jet a/c reported in area at high altitude at this time w/afterburner. Object conforms with this description and case evaluated as a/c. Echo over ATLANTIC OCEAN.	

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

INCOMING

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

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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

RUHPE/CINCPACFLT PEARL HARBOR HAWAII

RUUAJAZ/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

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I N C O M I N G

AF IN : 49289 (25 Apr 63)

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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

EQUATORIAL		SATELLITE 1960 DATA 1 FOR OTHER LATITUDES								EQUATORIAL		SATELLITE 1960 DATA 1 FOR OTHER LATITUDES							
TIME	LONG.	LAT.	TIME	LONG.	LAT.	TIME	LONG.	LAT.	TIME	LONG.	LAT.	TIME	LONG.	LAT.	TIME	LONG.	LAT.	TIME	LONG.
UT	UT	UT	UT	UT	UT	UT	UT	UT	UT	UT	UT	UT	UT	UT	UT	UT	UT	UT	UT
APRIL 21, 1963																			
1 22.6	241.19	47.4	10.8	-22.64	877	70.0	28.8	-32.73	877	70.0	28.8	1 22.6	241.19	47.4	10.8	-22.64	877	70.0	28.8
2 22.6	270.41	45.0	23.7	-22.64	890	72.5	33.0	-104.55	877	70.0	28.8	2 22.6	270.41	45.0	23.7	-22.64	890	72.5	33.0
3 22.6	299.56	40.0	19.5	-22.64	902	75.8	38.0	-114.85	877	70.0	28.8	3 22.6	299.56	40.0	19.5	-22.64	902	75.8	38.0
4 22.6	328.74	35.0	15.5	-22.64	911	79.1	41.0	-120.74	877	70.0	28.8	4 22.6	328.74	35.0	15.5	-22.64	911	79.1	41.0
5 22.6	357.93	30.0	11.5	-22.64	919	82.4	43.0	-126.89	877	70.0	28.8	5 22.6	357.93	30.0	11.5	-22.64	919	82.4	43.0
6 22.6	387.11	25.0	7.5	-22.64	926	85.7	45.0	-133.21	877	70.0	28.8	6 22.6	387.11	25.0	7.5	-22.64	926	85.7	45.0
7 22.6	416.29	20.0	3.5	-22.64	933	89.0	47.0	-139.71	877	70.0	28.8	7 22.6	416.29	20.0	3.5	-22.64	933	89.0	47.0
8 22.6	445.47	15.0	0.0	-22.64	939	92.3	49.0	-146.40	877	70.0	28.8	8 22.6	445.47	15.0	0.0	-22.64	939	92.3	49.0
9 22.6	474.65	10.0	-3.5	-22.64	945	95.6	51.0	-153.29	877	70.0	28.8	9 22.6	474.65	10.0	-3.5	-22.64	945	95.6	51.0
10 22.6	503.83	5.0	-7.0	-22.64	951	98.9	53.0	-160.39	877	70.0	28.8	10 22.6	503.83	5.0	-7.0	-22.64	951	98.9	53.0
11 22.6	533.01	0.0	-10.5	-22.64	956	102.2	55.0	-167.69	877	70.0	28.8	11 22.6	533.01	0.0	-10.5	-22.64	956	102.2	55.0
12 22.6	562.19	-5.0	-14.0	-22.64	961	105.5	57.0	-175.19	877	70.0	28.8	12 22.6	562.19	-5.0	-14.0	-22.64	961	105.5	57.0
13 22.6	591.37	-10.0	-17.5	-22.64	966	108.8	59.0	-182.89	877	70.0	28.8	13 22.6	591.37	-10.0	-17.5	-22.64	966	108.8	59.0
14 22.6	620.55	-15.0	-21.0	-22.64	971	112.1	61.0	-190.69	877	70.0	28.8	14 22.6	620.55	-15.0	-21.0	-22.64	971	112.1	61.0
15 22.6	649.73	-20.0	-24.5	-22.64	976	115.4	63.0	-198.69	877	70.0	28.8	15 22.6	649.73	-20.0	-24.5	-22.64	976	115.4	63.0
16 22.6	678.91	-25.0	-28.0	-22.64	981	118.7	65.0	-206.89	877	70.0	28.8	16 22.6	678.91	-25.0	-28.0	-22.64	981	118.7	65.0
17 22.6	708.09	-30.0	-31.5	-22.64	986	122.0	67.0	-215.19	877	70.0	28.8	17 22.6	708.09	-30.0	-31.5	-22.64	986	122.0	67.0
18 22.6	737.27	-35.0	-35.0	-22.64	991	125.3	69.0	-223.69	877	70.0	28.8	18 22.6	737.27	-35.0	-35.0	-22.64	991	125.3	69.0
19 22.6	766.45	-40.0	-38.5	-22.64	996	128.6	71.0	-232.39	877	70.0	28.8	19 22.6	766.45	-40.0	-38.5	-22.64	996	128.6	71.0
20 22.6	795.63	-45.0	-42.0	-22.64	1001	131.9	73.0	-241.19	877	70.0	28.8	20 22.6	795.63	-45.0	-42.0	-22.64	1001	131.9	73.0
21 22.6	824.81	-50.0	-45.5	-22.64	1006	135.2	75.0	-250.19	877	70.0	28.8	21 22.6	824.81	-50.0	-45.5	-22.64	1006	135.2	75.0
22 22.6	853.99	-55.0	-49.0	-22.64	1011	138.5	77.0	-259.39	877	70.0	28.8	22 22.6	853.99	-55.0	-49.0	-22.64	1011	138.5	77.0

APRIL 22, 1963																			
1 22.6	241.19	47.4	10.8	-22.64	877	70.0	28.8	-32.73	877	70.0	28.8	1 22.6	241.19	47.4	10.8	-22.64	877	70.0	28.8
2 22.6	270.41	45.0	23.7	-22.64	890	72.5	33.0	-104.55	877	70.0	28.8	2 22.6	270.41	45.0	23.7	-22.64	890	72.5	33.0
3 22.6	299.56	40.0	19.5	-22.64	902	75.8	38.0	-114.85	877	70.0	28.8	3 22.6	299.56	40.0	19.5	-22.64	902	75.8	38.0
4 22.6	328.74	35.0	15.5	-22.64	911	79.1	41.0	-120.74	877	70.0	28.8	4 22.6	328.74	35.0	15.5	-22.64	911	79.1	41.0
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6 22.6	387.11	25.0	7.5	-22.64	926	85.7	45.0	-133.21	877	70.0	28.8	6 22.6	387.11	25.0	7.5	-22.64	926	85.7	45.0
7 22.6	416.29	20.0	3.5	-22.64	933	89.0	47.0	-139.71	877	70.0	28.8	7 22.6	416.29	20.0	3.5	-22.64	933	89.0	47.0
8 22.6	445.47	15.0	0.0	-22.64	939	92.3	49.0	-146.40	877	70.0	28.8	8 22.6	445.47	15.0	0.0	-22.64	939	92.3	49.0
9 22.6	474.65	10.0	-3.5	-22.64	945	95.6	51.0	-153.29	877	70.0	28.8	9 22.6	474.65	10.0	-3.5	-22.64	945	95.6	51.0
10 22.6	503.83	5.0	-7.0	-22.64	951	98.9	53.0	-160.39	877	70.0	28.8	10 22.6	503.83	5.0	-7.0	-22.64	951	98.9	53.0
11 22.6	533.01	0.0	-10.5	-22.64	956	102.2	55.0	-167.69	877	70.0	28.8	11 22.6	533.01	0.0	-10.5	-22.64	956	102.2	55.0
12 22.6	562.19	-5.0	-14.0	-22.64	961	105.5	57.0	-175.19	877	70.0	28.8	12 22.6	562.19	-5.0	-14.0	-22.64	961	105.5	57.0
13 22.6	591.37	-10.0	-17.5	-22.64	966	108.8	59.0	-182.89	877	70.0	28.8	13 22.6	591.37	-10.0	-17.5	-22.64	966	108.8	59.0
14 22.6	620.55	-15.0	-21.0	-22.64	971	112.1	61.0	-190.69	877	70.0	28.8	14 22.6	620.55	-15.0	-21.0	-22.64	971	112.1	61.0
15 22.6	649.73	-20.0	-24.5	-22.64	976	115.4	63.0	-198.69	877	70.0	28.8	15 22.6	649.73	-20.0	-24.5	-22.64	976	115.4	63.0
16 22.6	678.91	-25.0	-28.0	-22.64	981	118.7	65.0	-206.89	877	70.0	28.8	16 22.6	678.91	-25.0	-28.0	-22.64	981	118.7	65.0
17 22.6	708.09	-30.0	-31.5	-22.64	986	122.0	67.0	-215.19	877	70.0	28.8	17 22.6	708.09	-30.0	-31.5	-22.64	986	122.0	67.0
18 22.6	737.27	-35.0	-35.0	-22.64	991	125.3	69.0	-223.69	877	70.0	28.8	18 22.6	737.27	-35.0	-35.0	-22.64	991	125.3	69.0
19 22.6	766.45	-40.0	-38.5	-22.64	996	128.6	71.0	-232.39	877	70.0	28.8	19 22.6	766.45	-40.0	-38.5	-22.64	996	128.6	71.0
20 22.6	795.63	-45.0	-42.0	-22.64	1001	131.9	73.0	-241.19	877	70.0	28.8	20 22.6	795.63	-45.0	-42.0	-22.64	1001	131.9	73.0
21 22.6	824.81	-50.0	-45.5	-22.64	1006	135.2	75.0	-250.19	877	70.0	28.8	21 22.6	824.81	-50.0	-45.5	-22.64	1006	135.2	75.0
22 22.6	853.99	-55.0	-49.0	-22.64	1011	138.5	77.0	-259.39	877	70.0	28.8	22 22.6	853.99	-55.0	-49.0	-22.64	1011	138.5	77.0

APR 11 23, 1963													
1	24.4	250.19	47.4	29.0	-22.65	896	70.0	29.0	-82.69	893	96.0		
2	20.3	279.97	45.0	23.9	-20.85	849	72.5	35.1	-104.51	870	107.0		
3	15.2	308.15	40.0	18.7	-45.57	913	60.4	36.2	-117.85	851	113.2		
4	11.0	338.34	35.0	13.6	-35.86	928	54.0	41.2	-128.20	836	118.4		
5	6.4	368.52	30.0	13.9	-28.54	913	49.4	43.3	-133.85	854	140.5		
6	1.8	398.70	20.0	9.3	-17.25	948	43.7	45.5	-148.18	853	146.4		
7	57.1	428.89	0.0	0.0	0.0	972	39.9	47.1	-163.57	858	153.0		
8	52.3	459.07	-20.0	-0.3	13.24	933	43.7*	-49.7	147.86	891	130.2		
9	47.5	489.25	-30.0	-14.1	28.50	970	49.4*	-48.1	130.50	910	132.5		
10	33.2	519.43	-35.0	-15.9	35.82	989	54.0*	-42.2	129.24	920	139.0		
11	38.6	549.62	-40.0	-20.6	45.43	987	60.8*	-39.1	119.61	933	143.2		
12	24.0	579.80	-45.0	-24.3	60.72	980	72.4*	-34.9	104.31	959	107.0		
			-47.4	-28.6	82.49	967	90.0*	-29.6	62.53	967	90.0		

DEPARTMENT OF THE AIR FORCE
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INCOMING

NNNN

AF IN : 48234 (24 Apr 63) A/hk

Pg 1 of 2

INFO : NIN-9, XOP-1, XOPX-4, SAF-OS-3, ARMY-2, CMC-8, JCS-35,
OSD-15, CIA-11, NSA-7, DIA-20, DIA-CIIC-2 (118)

SMB B278

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..... ZZ RUEAHQ

ZNR ZFD

KHB688

..... ZZ RUHLKM RUHPA RUHPB RUHPD RUHPQ RUHAFS RUAGFL RUUAZ RUAMCR
DE RUHLKH 3

ZNR

Z 230720Z

FM 326 AIR DIV KUNIA FACILITY HAWAII

TO RUHLKM/PACAF HICKAM AFB HAWAII

RUHAC/COMALSEAFROM KODIAK ALASKA

RUWSPG/COMWESTSEAFROM SAN FRANCISCO CALIF

RUHPQ/COMHAWSEAFROM PEARL HARBOR HAWAII

INFO RUEAHQ/COFS USAF WASHINGTON D C

RUWGALB/CINCNOAD ENT AFB COLO

RUHPA/CINCPAC CAMP H M SMITH HAWAII

RUHAFS/CINCUSARPAC FT SHAFTER HAWAII

0515 209.15

0545 82.65

116.50

0515

48.5

209.15

-148.18

20°N - 0603.5

61°W

ECHO AT 20°N 61°W

NOT OVER PACIFIC

DEPARTMENT OF THE AIR FORCE
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I N C O M I N G

AF IN : 48234 (24 Apr 63)

Pg 2 of 2

RUHPB/CINCPACFLT PEARL HARBOR HAWAII

RUAUAZ/COMUSJAPAF FUCHU AS JAPAN

RUAMCR/COMUSKOREA SEOUL KOREA

RUAGFL/COMUSTDC TAIPEI TAIWAF

RUHPD/COMASWFORPAC FORD ISLAND HAWAII

RUCSBR/CINCSAC OFFUTT AFB NEBR

RUECW/CNO WASHINGTON DC

RUECW/SECNAV WASHINGTON DC

AF GRNC

BT

UNCLAS/CIRVIS REPORT ~~XXXXXXXXXX~~ A NON-MILITARY RESIDENT OF
PORT ALLEN KAUAI HAWAII REPORTED SIGHTING A REDISH LIGHT SAME
SIZE AND COLOR AS A STAR 80 DEGREES ABOVE THE HORIZON MOVING
FROM THE NORTHWEST TOWARDS THE SOUTHEAST OR EASTERLY AT 23/0608Z
FOR ABOUT FOUR MINUTES. NO EVALUATION AT THIS TIME.

OF NOTE. JET AIRCRAFT WERE ON A HIGH ALTITUDE TEST RUN IN THE
AREA AT THIS TIME ANS IN AFTERBURNER.

BT NOTE: ADVANCE COPY DELIVERED TO XOPX, DIA, NIN,
SUSPECTED DUPE OF AF IN 45464 (23 Apr 63)

23/0730Z APR RUHLKH

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
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I N C O M I N G

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AF IN : 45464 (23 Apr 63) C/doc

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INFO : DIA-20, DIA/CIIC-2, XOP-1, XOPX-4, NIN-9, SAF-OS-3, ARMY-2
CMC-8, JCS-35, OSD-15, CIA-11, NSA-7 -118-

SMB A153

ZCHQA768ZCUJA168

***** ZZ RUEAHQ

DE RUHLKH 3H

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Z 230720Z

FM 326 AIR DIV KUNIA FACILITY HAWAII

TRUHPKM/PWCAF HICKAM AFB HAWAII

RUHAC/COMALSEAFRON KODIAK ALASKA

RUWS/PG/COMWESTSEAFRON SAN FRANCISCO CALIF

RUHPQ/COMHAWSEAFRON PEARL HARBOR HAWAII

INFO RUEAHQ/COFS USAF WASHINGTON DC

RUWGALB/CINCINORAD ENT AFB COLO

RUHPHQCINCPAC CAMP H M SMITH HAWAII

RUHAFS/KINCUSARPAC FT SHAFTER HAWAII

RUHPB/CINCPACFLT PEARL HARBOR HAWAII

RUABUZ/COMUSJAPAF FUCHU AS JAPAN

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RUAGFL/COMUSTDC TAIPEI TAIWAF

RUHPD/COMASWFORPAC FORD ISLAND HAWAII

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

I N C O M I N G

AF IN : 45464 (23 Apr 63)

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RUCSBR/CINCSUC OFFUTT AFB NEB

RUECW/CNO WASHINGTON DC

RUECW/SECNAV WASHINGTON DCN

AF GRNC

5

UNCLAS/CIRVIS REPORT MR [REDACTED], A NON-MILITARY RESIDENT OF
PORT ALLEN KAUAI HAWAII REPORTED SIGHTING A REDISH LIGHT SAME
SIZE AND COLOR AS A STAR 30 DEGREES ABOVE THE HORIZON MOVING
FROM THE NORTHWEST TOWARDS THE SOUTHEAST OR EASTERLY YAZ 23/0608Z
FOR ABOUT FOR MINUTES. NO EVALUATION AT THIS TIME.

OF NOTE. JET AIRCRAFT WERE ON A HIGH ALTITUDE TEST RUN IN THE
AREA AT THIS TIME AND IN AFTER BURNER.

BT

NOTE: ADVANCE COPY TO DIA, NIN & XOPX.
223/# 0730Z APR RUHLKH

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I N C O M I N G

AF IN : 45509 (23 Apr 63) C/doc

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INFO : DIA-20, DIA/CIIC-2, NIN-9, XOP-1, XOPX-4, SAF-OS-3, ARMY-2
CMC-8, JCS-35, OSD-15, NSA-7, CIA-11 -118-

B 157
NNNSWA879LKA215KHA803

..... ZZ RUECW

DE RUHLKH 107S

ZNR

UNCLAS SVC ZUI DE RUEC 144P X CITING PWA 120

KHB689

..... ZZ RUWSPG RUECW RUKAC RUEAHQ RUWGALB RUCSBR

DE RUHLKH 3H

ZNR

Y 230720Z

FM 326 AIR DIV KUNIA FACILITY HAWAII

TO RUHLKM/PWCAF HICKAM AFB HAWAII

RUKAC/COMALSEAFRON KODIAK ALASKA

RUWS/PG/COMWESTSEAFRON SAN FRANCISCO CALIF

RUHPQ/C OMHAWSEAFRON PEARL HARBOR HAWAII

INFO RUEAHQ/COFS USAF WASHINGTON DC

RUWGALB/CINCNOAD ENT AFB COLO

RUHPHQKCINCPAC CAMP H M SMITH HAWAII

RUHAFS/KINCUSARPAC FT SHAFTER HAWAII

RUHPB/CINCPACFLT PEARL HARBOR HAWAII

RUUAJAZ/COMUSJAPAF FUCHU AS JAPAN

RUAMCR/COMUSKOREA SEOUL KOREA

RUAGFL/COMUSTDC TAIPEI TAIWAF

DEPARTMENT OF THE AIR FORCE
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INCOMING

AF IN : 45509 (23 Apr 63)

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NNNN

RUCSBR/CINCSAC OFFUTT AFB NEB

RUECW/CNO WASHINGTON DC

RUECW/SECNAV WASHINGTON DCN

AF GRNC

BT

TUNCLAS/CIRVIS REPORT MR. [REDACTED] A NON-MILITARY RESIDENT OF
PORT ALLEN KAUAI HAWAII REPORTED SIGHTING A REDISH LIGHT SAME
SIZE AND COLOR AS A STAR 80 DEGREES ABOVE THE HORIZON MOVING
FROM THE NORTHWEST TOWARDS THE SOUTHEAST OR EASTERLY AT 23/0608Z
FOR ABOUT FOUR MINUTES. NO EVALUATION AT THIS TIME.

OF NOTE. JET AIRCRAFT WERE ON A HIGH ALTITUDED TEST RUN IN THE
AREA AT THIS TIME AND IN AFTERBURNER.

BT

23/0730Z APR RUHLKH

NOTE: ADVANCE COPY TO DIA, NIN & XOPX.
CORRECTED COPY OF AF IN : 45464 (23 Apr 63)

SATellite 1960 JUNE 1 FOR OTHER LATITUDES										
TIME UT	LONG. E	LAT.	TIME CORR.	SOUTH-NORTH			TIME CORR.	NORTH-SOUTH		
				LONG. E	HT. M	BEAR. IN-1		LONG. E	HT. M	BEAR. IN-1
APRIL 21, 1963										
1 20.1	211.15	47.8	20.1	-82.69	877	90.0	20.1	-82.73	877	90.0
2 20.2	211.15	47.8	20.2	-82.69	890	12.5	20.2	-82.73	877	102.5
3 20.3	211.15	47.8	20.3	-82.69	902	60.8	20.3	-82.73	877	159.2
4 20.4	211.15	47.8	20.4	-82.69	911	55.1	20.4	-82.73	877	175.9
5 20.5	211.15	47.8	20.5	-82.69	919	50.9	20.5	-82.73	877	192.6
6 20.6	211.15	47.8	20.6	-82.69	925	43.7	20.6	-82.73	877	209.3
7 20.7	211.15	47.8	20.7	-82.69	930	38.9	20.7	-82.73	877	226.0
8 20.8	211.15	47.8	20.8	-82.69	934	34.9	20.8	-82.73	877	242.7
9 20.9	211.15	47.8	20.9	-82.69	937	31.7	20.9	-82.73	877	259.4
10 21.0	211.15	47.8	21.0	-82.69	939	29.2	21.0	-82.73	877	276.1
11 21.1	211.15	47.8	21.1	-82.69	940	27.3	21.1	-82.73	877	292.8
12 21.2	211.15	47.8	21.2	-82.69	940	26.0	21.2	-82.73	877	309.5
13 21.3	211.15	47.8	21.3	-82.69	939	25.3	21.3	-82.73	877	326.2
14 21.4	211.15	47.8	21.4	-82.69	937	25.2	21.4	-82.73	877	342.9
15 21.5	211.15	47.8	21.5	-82.69	934	25.7	21.5	-82.73	877	359.6
16 21.6	211.15	47.8	21.6	-82.69	929	26.8	21.6	-82.73	877	376.3
17 21.7	211.15	47.8	21.7	-82.69	922	28.5	21.7	-82.73	877	393.0
18 21.8	211.15	47.8	21.8	-82.69	913	30.8	21.8	-82.73	877	409.7
19 21.9	211.15	47.8	21.9	-82.69	902	33.7	21.9	-82.73	877	426.4
20 22.0	211.15	47.8	22.0	-82.69	889	37.2	22.0	-82.73	877	443.1
21 22.1	211.15	47.8	22.1	-82.69	874	41.3	22.1	-82.73	877	459.8
22 22.2	211.15	47.8	22.2	-82.69	857	46.0	22.2	-82.73	877	476.5
23 22.3	211.15	47.8	22.3	-82.69	838	51.3	22.3	-82.73	877	493.2
24 22.4	211.15	47.8	22.4	-82.69	817	57.2	22.4	-82.73	877	509.9
25 22.5	211.15	47.8	22.5	-82.69	794	63.7	22.5	-82.73	877	526.6
26 22.6	211.15	47.8	22.6	-82.69	769	70.8	22.6	-82.73	877	543.3
27 22.7	211.15	47.8	22.7	-82.69	742	78.5	22.7	-82.73	877	560.0
28 22.8	211.15	47.8	22.8	-82.69	713	86.8	22.8	-82.73	877	576.7
29 22.9	211.15	47.8	22.9	-82.69	682	95.7	22.9	-82.73	877	593.4
30 23.0	211.15	47.8	23.0	-82.69	649	105.2	23.0	-82.73	877	610.1
31 23.1	211.15	47.8	23.1	-82.69	614	115.3	23.1	-82.73	877	626.8
32 23.2	211.15	47.8	23.2	-82.69	577	126.0	23.2	-82.73	877	643.5
33 23.3	211.15	47.8	23.3	-82.69	538	137.3	23.3	-82.73	877	660.2
34 23.4	211.15	47.8	23.4	-82.69	497	149.2	23.4	-82.73	877	676.9
35 23.5	211.15	47.8	23.5	-82.69	454	161.7	23.5	-82.73	877	693.6
36 23.6	211.15	47.8	23.6	-82.69	409	174.8	23.6	-82.73	877	710.3
37 23.7	211.15	47.8	23.7	-82.69	362	188.5	23.7	-82.73	877	727.0
38 23.8	211.15	47.8	23.8	-82.69	313	202.8	23.8	-82.73	877	743.7
39 23.9	211.15	47.8	23.9	-82.69	262	217.7	23.9	-82.73	877	760.4
40 24.0	211.15	47.8	24.0	-82.69	209	233.2	24.0	-82.73	877	777.1
41 24.1	211.15	47.8	24.1	-82.69	154	249.3	24.1	-82.73	877	793.8
42 24.2	211.15	47.8	24.2	-82.69	97	266.0	24.2	-82.73	877	810.5
43 24.3	211.15	47.8	24.3	-82.69	39	283.3	24.3	-82.73	877	827.2
44 24.4	211.15	47.8	24.4	-82.69	-1	301.2	24.4	-82.73	877	843.9
45 24.5	211.15	47.8	24.5	-82.69	-41	319.7	24.5	-82.73	877	860.6
46 24.6	211.15	47.8	24.6	-82.69	-80	338.8	24.6	-82.73	877	877.3
47 24.7	211.15	47.8	24.7	-82.69	-118	358.5	24.7	-82.73	877	894.0
48 24.8	211.15	47.8	24.8	-82.69	-155	378.8	24.8	-82.73	877	910.7
49 24.9	211.15	47.8	24.9	-82.69	-191	399.7	24.9	-82.73	877	927.4
50 25.0	211.15	47.8	25.0	-82.69	-226	421.2	25.0	-82.73	877	944.1
51 25.1	211.15	47.8	25.1	-82.69	-259	443.3	25.1	-82.73	877	960.8
52 25.2	211.15	47.8	25.2	-82.69	-291	466.0	25.2	-82.73	877	977.5
53 25.3	211.15	47.8	25.3	-82.69	-322	489.3	25.3	-82.73	877	994.2
54 25.4	211.15	47.8	25.4	-82.69	-352	513.2	25.4	-82.73	877	1010.9
55 25.5	211.15	47.8	25.5	-82.69	-381	537.7	25.5	-82.73	877	1027.6
56 25.6	211.15	47.8	25.6	-82.69	-409	562.8	25.6	-82.73	877	1044.3
57 25.7	211.15	47.8	25.7	-82.69	-436	588.5	25.7	-82.73	877	1061.0
58 25.8	211.15	47.8	25.8	-82.69	-462	614.8	25.8	-82.73	877	1077.7
59 25.9	211.15	47.8	25.9	-82.69	-487	641.7	25.9	-82.73	877	1094.4
60 26.0	211.15	47.8	26.0	-82.69	-511	669.2	26.0	-82.73	877	1111.1
61 26.1	211.15	47.8	26.1	-82.69	-534	697.3	26.1	-82.73	877	1127.8
62 26.2	211.15	47.8	26.2	-82.69	-556	726.0	26.2	-82.73	877	1144.5
63 26.3	211.15	47.8	26.3	-82.69	-577	755.3	26.3	-82.73	877	1161.2
64 26.4	211.15	47.8	26.4	-82.69	-597	785.2	26.4	-82.73	877	1177.9
65 26.5	211.15	47.8	26.5	-82.69	-616	815.7	26.5	-82.73	877	1194.6
66 26.6	211.15	47.8	26.6	-82.69	-634	846.8	26.6	-82.73	877	1211.3
67 26.7	211.15	47.8	26.7	-82.69	-651	878.5	26.7	-82.73	877	1228.0
68 26.8	211.15	47.8	26.8	-82.69	-667	910.8	26.8	-82.73	877	1244.7
69 26.9	211.15	47.8	26.9	-82.69	-682	943.7	26.9	-82.73	877	1261.4
70 27.0	211.15	47.8	27.0	-82.69	-696	977.2	27.0	-82.73	877	1278.1
71 27.1	211.15	47.8	27.1	-82.69	-709	1011.3	27.1	-82.73	877	1294.8
72 27.2	211.15	47.8	27.2	-82.69	-721	1046.0	27.2	-82.73	877	1311.5
73 27.3	211.15	47.8	27.3	-82.69	-732	1081.3	27.3	-82.73	877	1328.2
74 27.4	211.15	47.8	27.4	-82.69	-742	1117.2	27.4	-82.73	877	1344.9
75 27.5	211.15	47.8	27.5	-82.69	-751	1153.7	27.5	-82.73	877	1361.6
76 27.6	211.15	47.8	27.6	-82.69	-759	1190.8	27.6	-82.73	877	1378.3
77 27.7	211.15	47.8	27.7	-82.69	-766	1228.5	27.7	-82.73	877	1395.0
78 27.8	211.15	47.8	27.8	-82.69	-772	1266.8	27.8	-82.73	877	1411.7
79 27.9	211.15	47.8	27.9	-82.69	-777	1305.7	27.9	-82.73	877	1428.4
80 28.0	211.15	47.8	28.0	-82.69	-781	1345.2	28.0	-82.73	877	1445.1
81 28.1	211.15	47.8	28.1	-82.69	-784	1385.3	28.1	-82.73	877	1461.8
82 28.2	211.15	47.8	28.2	-82.69	-786	1426.0	28.2	-82.73	877	1478.5
83 28.3	211.15	47.8	28.3	-82.69	-787	1467.3	28.3	-82.73	877	1495.2
84 28.4	211.15	47.8	28.4	-82.69	-787	1509.2	28.4	-82.73	877	1511.9
85 28.5	211.15	47.8	28.5	-82.69	-786	1551.7	28.5	-82.73	877	1528.6
86 28.6	211.15	47.8	28.6	-82.69	-784	1594.8	28.6	-82.73	877	1545.3
87 28.7	211.15	47.8	28.7	-82.69	-781	1638.5	28.7	-82.73	877	1562.0
88 28.8	211.15	47.8	28.8	-82.69	-777	1682.8	28.8	-82.73	877	1578.7
89 28.9	211.15	47.8	28.9	-82.69	-772	1727.7	28.9	-82.73	877	1595.4
90 29.0	211.15	47.8	29.0	-82.69	-766	1773.2	29.0	-82.73	877	1612.1
91 29.1	211.15	47.8	29.1	-82.69	-759	1819.3	29.1	-82.73	877	1628.8
92 29.2	211.15	47.8	29.2	-82.69	-751	1866.0	29.2	-82.73	877	1645.5
93 29.3	211.15	47.8	29.3	-82.69	-742	1913.3	29.3	-82.73	877	1662.2
94 29.4	211.15	47.8	29.4	-82.69	-732	1961.2	29.4	-82.73	877	1678.9
95 29.5	211.15	47.8	29.5	-82.69	-721	2009.7	29.5	-82.73	877	1695.6
96 29.6	211.15	47.8	29.6	-82.69	-709	2058.8	29.6	-82.73	877	1712.3
97 29.7	211.15	47.8	29.7	-82.69	-696	2108.5	29.7	-82.73	877	1729.0
98 29.8	211.15	47.8	29.8	-82.69	-682	2158.8	29.8	-82.73	877	1745.7
99 29.9	211.15	47.8	29.9	-82.69	-667	2209.7	29.9	-82.73	877	1762.4
100 30.0	211.15	47.8	30.0	-82.69	-651	2261.2	30.0	-82.73	877	1779.1

SATellite 1960 JUNE 1 FOR OTHER LATITUDES										
TIME UT	LONG. E	LAT.	TIME CORR.	SOUTH-NORTH			TIME CORR.	NORTH-SOUTH		
				LONG. E	HT. M	BEAR. IN-1		LONG. E	HT. M	BEAR. IN-1
APRIL 21, 1963										
1 20.1	211.15	47.8	20.1	-82.69	877	90				

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.	