

PROJECT 10073 RECORD CARD

1. DATE 13 March 1963		2. LOCATION 4.35N 176.41W (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 13/1645Z		4. TYPE OF OBSERVATION ☐ Ground-Visual ☐ Ground-Radar ☒ Air-Visual ☐ Air-Intercept Radar			
5. PHOTOS ☐ Yes ☒ No		6. SOURCE Military			
7. LENGTH OF OBSERVATION 5 minutes		8. NUMBER OF OBJECTS one		9. COURSE East	
10. BRIEF SUMMARY OF SIGHTING CIRVIS report of small object with no visible sign of propulsion in flight from West to East. Appeared at 40 dgr elevation in West & sighting duration 5 minutes. Disappeared by fading. Object very high & speed very fast. Sighting from C-121.				11. COMMENTS Direction wrong for satellite. Should be NE or SE since sighting near the equator. Duration consistent with satellite or a/c. since sighting was fm air, if object were a/c it would be at extreme altitude to prevent some feature from being identified. Insufficient data for evaluation. Possible error in direction, in which case object was ^{possibly} likely satellite. (Not Echo)	

3/16452
DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

I N C O M I N G

AF IN : 47156 (13 Mar 63) L/des

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

D 270

DE RUHLKH 9

ZNR

U 131905Z

FM 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/CINCNORAD ENT AFB COLO
RUHPHQCINCPAC 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
RUECW/CNO WASHINGTON DC
R ECW/SECNAV WASHINGTON DCN
AF GRNC

BT

EUNCLAS HADOC-D 0500C I R V I S

1. CIRVIS REPORT
2. C-121
3. SMALL OBJECT A. ONE OBJECT B. SIZE OF PIN, NO VISIBLE PROPULSION
SIGHTED
4. APPEARED 40 DEGREES OVER WESTERN HORIZON 4.35N 176.41W
. 13/1645Z HELD FOR 5MIN., FADED AT 13/1650Z
6. VERY HIGH
7. WEST TO EAST
3. VERY FAST
9. NEGATIVE

BT

NOTE: ADVANCE COPY TO XOPX, NIN, DIA/CIIC.

EQUATOR S-N			SATELLITE 1960 DATA 1 FOR OTHER LATITUDES							
TIME UT	LONG. W	LAT.	TIME CORR.	LONG. CORR.	ALT. MILES	HEAR. MILES	TIME CORR.	LONG. CORR.	ALT. MILES	HEAR. MILES
MARCH 10, 1963										
1 24.3	68.72	47.4	29.0	82.64	900	90.0	29.0	82.64	900	90.0
3 19.0	92.72	45.0	23.9	-60.77	910	107.6	23.9	-60.77	910	107.6
5 10.2	122.12	40.0	19.7	-45.49	921	119.2	19.7	-45.49	921	119.2
7 10.6	151.32	35.0	16.6	-35.86	929	126.0	16.6	-35.86	929	126.0
9 6.1	180.52	30.0	13.9	-28.54	936	130.6	13.9	-28.54	936	130.6
11 1.5	209.72	20.0	9.0	-17.26	946	136.3	9.0	-17.26	946	136.3
12 56.9	238.92	0.	0.	0.	950	140.1	0.	0.	950	140.1
14 52.4	268.12	-20.0	-9.1	17.25	955	136.3	-9.1	17.25	955	136.3
16 47.8	297.32	-30.0	-14.0	28.51	960	130.6	-14.0	28.51	960	130.6
18 43.2	326.52	-35.0	-16.7	35.83	961	126.0	-16.7	35.83	961	126.0
20 38.7	355.72	-40.0	-19.9	45.45	958	119.2	-19.9	45.45	958	119.2
22 34.1	384.92	-45.0	-24.2	60.69	955	107.6	-24.2	60.69	955	107.6
		-47.4	-29.4	82.53	955	90.0	-29.4	82.53	955	90.0
MARCH 11, 1963										
0 29.6	54.12	47.4	29.0	-82.64	901	90.0	29.0	-82.64	901	90.0
2 25.0	83.32	45.0	23.9	-60.77	914	107.6	23.9	-60.77	914	107.6
4 20.4	112.52	40.0	19.7	-45.49	924	119.2	19.7	-45.49	924	119.2
6 15.9	141.71	35.0	16.6	-35.86	932	126.0	16.6	-35.86	932	126.0
8 11.3	170.91	30.0	13.9	-28.54	938	130.6	13.9	-28.54	938	130.6
10 6.7	200.11	20.0	9.0	-17.26	946	136.3	9.0	-17.26	946	136.3
12 2.2	229.31	0.	0.	0.	950	140.1	0.	0.	950	140.1
13 57.6	258.51	-20.0	-9.1	17.25	952	136.3	-9.1	17.25	952	136.3
15 53.1	287.71	-30.0	-14.0	28.51	957	130.6	-14.0	28.51	957	130.6
17 48.5	316.91	-35.0	-16.7	35.83	961	126.0	-16.7	35.83	961	126.0
19 43.9	346.11	-40.0	-19.9	45.44	960	119.2	-19.9	45.44	960	119.2
21 39.4	375.31	-45.0	-24.1	60.70	957	107.6	-24.1	60.70	957	107.6
23 34.8	404.51	-47.4	-29.4	82.54	950	90.0	-29.4	82.54	950	90.0
MARCH 12, 1963										
1 30.2	73.71	47.4	29.0	-82.63	905	90.0	29.0	-82.63	905	90.0
3 25.7	102.91	45.0	23.9	-60.77	918	107.6	23.9	-60.77	918	107.6
5 21.1	132.11	40.0	19.7	-45.49	927	119.2	19.7	-45.49	927	119.2
7 16.5	161.31	35.0	16.6	-35.86	934	126.0	16.6	-35.86	934	126.0
9 12.0	190.51	30.0	13.9	-28.54	940	130.6	13.9	-28.54	940	130.6
11 7.4	219.71	20.0	9.0	-17.26	949	136.3	9.0	-17.26	949	136.3
13 2.9	248.91	0.	0.	0.	952	140.1	0.	0.	952	140.1
14 58.3	278.11	-20.0	-9.1	17.26	958	136.3	-9.1	17.26	958	136.3
16 53.7	307.31	-30.0	-14.0	28.52	967	130.6	-14.0	28.52	967	130.6
18 49.2	336.51	-35.0	-16.7	35.83	966	126.0	-16.7	35.83	966	126.0
20 44.6	365.71	-40.0	-19.9	45.45	963	119.2	-19.9	45.45	963	119.2
22 40.0	394.91	-45.0	-24.1	60.71	957	107.6	-24.1	60.71	957	107.6
		-47.4	-29.4	82.55	946	90.0	-29.4	82.55	946	90.0
MARCH 13, 1963										
0 35.5	64.12	47.4	29.1	-82.63	909	90.0	29.1	-82.63	909	90.0
2 30.9	93.32	45.0	23.9	-60.77	921	107.6	23.9	-60.77	921	107.6
4 26.4	122.52	40.0	19.7	-45.49	929	119.2	19.7	-45.49	929	119.2
6 21.8	151.72	35.0	16.6	-35.86	936	126.0	16.6	-35.86	936	126.0
8 17.2	180.92	30.0	13.9	-28.54	941	130.6	13.9	-28.54	941	130.6
10 12.7	210.12	20.0	9.0	-17.27	949	136.3	9.0	-17.27	949	136.3
12 8.1	239.32	0.	0.	0.	959	140.1	0.	0.	959	140.1
14 3.6	268.52	-20.0	-9.0	17.26	964	136.3	-9.0	17.26	964	136.3
15 59.0	297.72	-30.0	-14.0	28.52	963	130.6	-14.0	28.52	963	130.6
17 54.4	326.92	-35.0	-16.7	35.84	961	126.0	-16.7	35.84	961	126.0
19 49.9	356.12	-40.0	-19.8	45.45	958	119.2	-19.8	45.45	958	119.2
21 45.3	385.32	-45.0	-24.1	60.72	952	107.6	-24.1	60.72	952	107.6
23 40.7	414.52	-47.4	-29.3	82.56	942	90.0	-29.3	82.56	942	90.0

EQUATOR			SATELLITE 1960 DATA 1							
S-N			FOR OTHER LATITUDES							
TIME	LONG.	LAT.	TIME	LONG.	ALT.	HEAR.	TIME	LONG.	ALT.	HEAR.
UT	W		CORR.	CORR.	(MILES)	(MILES)	CORR.	CORR.	(MILES)	(MILES)
MARCH 14, 1963										
1 30.2	81.72	47.4	29.1	-82.63	913	90.0	29.1	-82.63	913	90.0
3 31.5	110.92	45.0	23.9	-60.77	926	107.6	23.9	-60.77	926	107.6
5 27.1	140.12	40.0	19.7	-45.49	931	119.2	19.7	-45.49	931	119.2
7 22.5	171.32	35.0	16.6	-35.87	937	126.0	16.6	-35.87	937	126.0
9 17.9	202.52	30.0	13.9	-28.54	941	130.6	13.9	-28.54	941	130.6
11 13.4	233.72	20.0	9.0	-17.27	948	136.3	9.0	-17.27	948	136.3
13 8.8	264.92	0.	0.	0.	954	140.1	0.	0.	954	140.1
15 4.3	296.12	-20.0	-9.0	17.26	960	136.3	-9.0	17.26	960	136.3
16 59.7	327.32	-30.0	-13.9	28.53	959	130.6	-13.9	28.53	959	130.6
18 55.1	358.52	-35.0	-16.7	35.85	957	126.0	-16.7	35.85	957	126.0
20 50.5	389.72	-40.0	-19.6	45.46	954	119.2	-19.6	45.46	954	119.2
22 46.0	420.92	-45.0	-24.0	60.73	948	107.6	-24.0	60.73	948	107.6
		-47.4	-29.3	82.55	938	90.0	-29.3	82.55	938	90.0
MARCH 15, 1963										
0 41.5	74.13	47.4	29.1	-82.62	916	90.0	29.1	-82.62	916	90.0
2 36.9	103.33	45.0	23.9	-60.77	926	107.6	23.9	-60.77	926	107.6
4 32.3	132.53	40.0	19.7	-45.49	931	119.2	19.7	-45.49	931	119.2
6 27.8	161.73	35.0	16.6	-35.87	938	126.0	16.6	-35.87	938	126.0
8 23.2	190.93	30.0	13.9	-28.54	941	130.6	13.9	-28.54	941	130.6
10 18.7	220.13	20.0	9.0	-17.27	947	136.3	9.0	-17.27	947	136.3
12 14.1	249.33	0.	0.	0.	954	140.1	0.	0.	954	140.1
14 9.5	278.53	-20.0	-9.0	17.26	956	136.3	-9.0	17.26	956	136.3
16 5.0	307.73	-30.0	-13.9	28.53	954	130.6	-13.9	28.53	954	130.6
18 0.4	336.93	-35.0	-16.6	35.85	953	126.0	-16.6	35.85	953	126.0
19 55.9	366.13	-40.0	-19.8	45.47	950	119.2	-19.8	45.47	950	119.2
21 51.3	395.33	-45.0	-24.0	60.74	944	107.6	-24.0	60.74	944	107.6
23 46.7	424.53	-47.4	-29.2	82.59	935	90.0	-29.2	82.59	935	90.0
MARCH 16, 1963										
1 42.2	83.74	47.4	29.1	-82.63	919	90.0	29.1	-82.63	919	90.0
3 37.6	112.94	45.0	23.9	-60.77	928	107.6	23.9	-60.77	928	107.6
5 33.1	142.14	40.0	19.7	-45.49	934	119.2	19.7	-45.49	934	119.2
7 28.5	171.34	35.0	16.6	-35.87	938	126.0	16.6	-35.87	938	126.0
9 23.9	200.54	30.0	13.9	-28.55	941	130.6	13.9	-28.55	941	130.6
11 19.4	229.74	20.0	9.0	-17.27	946	136.3	9.0	-17.27	946	136.3
13 14.8	258.94	0.	0.	0.	951	140.1	0.	0.	951	140.1
15 10.3	288.14	-20.0	-9.0	17.27	952	136.3	-9.0	17.27	952	136.3
17 5.7	317.34	-30.0	-13.9	28.54	950	130.6	-13.9	28.54	950	130.6
19 1.2	346.54	-35.0	-16.6	35.86	948	126.0	-16.6	35.86	948	126.0
20 56.6	375.74	-40.0	-19.7	45.48	946	119.2	-19.7	45.48	946	119.2
22 52.0	404.94	-45.0	-24.0	60.75	941	107.6	-24.0	60.75	941	107.6
		-47.4	-29.2	82.60	932	90.0	-29.2	82.60	932	90.0

MODIFIED ORBITAL ELEMENTS FOR EARTH SATELLITE 1960 DATA 1

REFERENCE TIME 1963 Y 3 M 2 D 1 H 39.39 M UT
 INCLINATION 47.72 DEG.
 ASCENDING NODE (LONG.) 33.53 DEG. WEST
 PRIME SWEEP INTERVAL ONE DAY -16.80 MIN.
 ARGUMENT OF PERIGEE 121.10 DEG.
 RATE OF CHANGE 0.27043 DEG. PER PERIOD
 ANOMALISTIC PERIOD 115.519 MIN.
 RATE OF CHANGE 0.00005 MIN. PER PERIOD
 ECCENTRICITY 0.01732
 RADIUS OF PERIGEE 4797.2 MILES
 RADIUS OF APOGEE 4966.0 MILES
 RATE OF CHANGE 0.04 MILES PER DAY
 ASCENDING NODE (R.A.) 150.29 DEG.
 RATE OF CHANGE -3.26440 DEG. PER DAY
 LATITUDE OF PERIGEE 38.94 DEG.