

PROJECT 10073 RECORD CARD

1. DATE 18 March 1963		2. LOCATION 47.20N 169.50W (RCAF)		12. CONCLUSIONS ☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon ☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft ☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical ☒ Other Satellite ☐ Insufficient Data for Evaluation ☐ Unknown	
3. DATE-TIME GROUP Local _____ GMT 18/1650Z		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 SE	
10. BRIEF SUMMARY OF SIGHTING CIRVIS report from military aircraft of object with shape and brightness of star in flight at high speed to SE. Observed to S of a/c above cloud layer at 50dgr elevation. Straight course.				11. COMMENTS Sighting characteristic of satellite observation. Although duration missing and no verification made, case is placed in satellite category. _____	

18/1605Z
DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

AF IN : 54112 (18 Mar 63) M/DOC

Page 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 B067

EKA035ZCZCPH0096PHC A072

***** YY RUEAHQ

DE RUHPHC 038

ZNR

Y 181811Z

FM COMHAWSEAFRON

TO RUHLKW/COMD HAWAIRDEFDIV, WHEELERAFB

INFO /CINCPACFLT

RUWGAL/CINCONAD ENT AFB COLO

RUEAHU/COFSUSAF WASHDC

RUECW/ CNO

RUECW/SECNAV

RUHAFS/ CINCUSARPAC

RUHPA/CINCPAC

RUHLKM/PACAF

RUHLKSA/PACAF BASECOM, HICKAM AFB

NAVY

Y O 181737Z

FM COMBARPAC

TO RUHPHH/COMHAWSEAFRON

RUKACR/COMALSEAFRON

INFO RUHPA/CINCPAC

RUKDAG/CINCAL

I N C O M I N G

AF IN : 54112 (18 Mar 63)

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RUKDAG/COMALAIRCOM

NAVY GRNC

BT

UNCLAS

1. CIRVIS REPORT
2. V143188
3. ONE UFO SHAPE AND SIZE OF SHINING STAR
4. BEARING 180 FROM 47-20N 169-50W
5. 181605Z
6. UNKNOWN
7. DIRECTION OF TRAVEL SE TRAVELED IN A STRAIGHT
COURSELINE. ANGLE OF ELEVATION 50 DEG.
8. DEFINITE HIGH SPEED OF TRAVEL. WEATHER
CLEAR ABOVE
9. UNKNOWN

BT

NOTE: ADVANCE COPY TO XOPX, NIN & DIA.

18/1738Z

Case 16: This case is representative of several we've had during the year in that although the motion is satellite-like, identification with a known satellite has not been made. Committee is worried about the existence of too many of these cases and wonders why, since SPADATS is in existence and many millions of dollars are spent yearly on tracking all satellites, SPADATS can't make positive identification of these cases. Why not?

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

AF IN : 54099 (19 Mar 63) G/COMING

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

SMB C060

LKA714KHA120

OO RUEAHQ

DE RUHLKH 6

ZNR

O 181735Z

FM 326 AIR DIV KUNIA FACILITY HAWAII

TO RUHLKMOXPWCAF HICKAM AFB HAWAII

RUKAC/COMALSEAFRON KODIAK ALASKA

RUWS/PG/COMWESTSEAFRON SAN FRANCISCO CALIF

RUHPQ/COMHAWSEAFRON PEARL HARBOR HAWAII

INFO RUEAHQ/COFS USAF WASHINGTON DC

RUWGALB/ZBZERAD ENT AFB COLO

RUHPHQKCINCPAC CAMP H M SMITH HAWAII

RUHAFS/.?

?/RG S "43-4

6 #-2-88

#'.

47#0?/CINCPACFLT PEARL HARBOR HAWAII

RUAUAZ/COMUSJAPAF FUCHU AS JAPAN

RUAMCR/COMUSKOREA SEOUL KOREA

RUAGFL/COMUSTDC TAIPEI TAIWAF

RUHPD/COMASWFORPAC FORD ISLAFD HAWAII

RUCSBR/CINCSAC OFFUTT AFB NEB

AF GRNC

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

I N C O M I N G

AF IN : 54099 (18 Mar 63)

Page 2 of 2

BT

UNCLASSIFIED HADOC-D 0533

1. CIRVIS REPORT
2. V143188
3. ONE UFO. SHAPE AND SIZ OF SINING STAR
4. BEARING 180 FROM 47.20N 169.50W
5. 18/1605Z
6. UNKNOWN
7. DIRECTION OF TRAVEL SE. TRAVELED IN STRAIGHT COURSE LIME.
ANGLE OF ELEVATION 50 DEGREES
8. DEFINITE HIGH SPEED OF TRAVEL. WEATHER CLEAR ABOVE
9. UNKNOWN

BT

NOTE: ADVANCE COPY TO NIN, XOPX & DIA.
MSG SUBJECT TO CORRECTION. CORRECTED COPY WILL
18/1737Z MAR RUHLKH BE FORWARDED UPON RECEIPT.

DEPARTMENT OF THE AIR FORCE

STAFF MESSAGE BRANCH

UNCLASSIFIED MESSAGE

I N C O M I N G

AF IN : 55279 (19 Mar63) S/vrd

Pg 1 of 2

INFO : NIN-9, XOP-1, XOPX-4, SAFOS-3, ARMY-2, NAVY-2, CMC-8,

JCS-35, OSD-15, DIA-20, DIA(CIIC)-2, CIA-11, NSA-7

(120)

SMB C 099

LKA763KHA148

OO RUEAHQ

ZDK

KHA1200 RUWSPG RUECW RUKAC RUEAHQ RUWGALB RUCSBR

DE RUHLKH 6H

ZNR

O 181735Z

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/CINCNOAD 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 ISLAFD HAWAII

RUCSBR/CINCSAC OFFUTT AFB NEB

RUECW/CNO WASHINGTON DC

RUECW/SECNAV WASHINGTON DCN

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

I N C O M I N G

AF IN : 55279 (19 Mar63) S/vrd

Pg 2 of 2

AF GRNC

BT

MUNCLASSIFIED HADOC-D 0533

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NOTE: ADV CY DEL TO XOPX,NIN AND DIA

BT

18/1737Z MAR RUHLKH

MARCH 13, 1963

SATELLITE 1960 101A 1, ECHO 1

These predictions are based on orbital elements revised on Mar. 11, 1963.
 T_0 = March 12.0, times are in days, U.T.
 Argument of perigee = $165.06 + 4.461 (t - T_0)$
 Right ascension of ascending node = $117.640 + 3.201 (t - T_0)$
 Expected average magnitude = +1

Declination = 47.2144
 $\text{eccent. (e)} = 0.010141 - 6.67 \times 10^{-6} (t - T_0)$
 Mean major axis = 7.357893 megameters
 Mean anomaly (deg.) = $0.76359 + 12.46253 (t - T_0) + 1.21 \times 10^{-6} (t - T_0)^2$

SATELLITE 1960 101A 1 FOR OTHER LATITUDES										SATELLITE 1960 101A 1 FOR OTHER LATITUDES											
EQUATOR S-N		SOUTH-NORTH		NORTH-SOUTH		EQUATOR S-N		SOUTH-NORTH		SOUTH-NORTH		NORTH-SOUTH		EQUATOR S-N		SOUTH-NORTH		NORTH-SOUTH			
TIME (UT)	LONG. (W)	LAT.	TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (IN-E)	TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (IN-E)	TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (IN-E)	TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (IN-E)			
MARCH 16, 1963										MARCH 20, 1963											
1 41.0	93.44	47.4	29.2	-82.60	929	90.0	29.2	-82.64	929	90.0	1 52.5	113.45	47.4	29.1	-82.62	935	90.0	29.1	-82.66	935	90.0
3 36.4	122.65	45.0	29.0	-60.72	938	72.4	34.5	-104.52	912	107.6	3 47.9	142.55	45.0	28.9	-60.74	940	72.4	34.5	-104.53	928	107.6
5 31.8	151.85	40.0	19.8	-45.46	945	60.7	38.5	-119.79	909	119.3	5 43.4	171.75	40.0	19.7	-45.48	943	60.7	38.5	-119.80	922	119.3
7 27.3	181.04	35.0	16.6	-35.85	948	54.0	41.6	-129.42	903	126.0	7 38.8	200.94	35.0	16.6	-35.86	944	54.0	41.6	-129.42	917	126.0
9 22.7	210.24	30.0	13.9	-28.53	951	49.4	44.3	-136.75	898	136.0	9 34.2	230.14	30.0	13.9	-28.54	944	49.4	44.3	-136.75	913	136.0
11 18.1	239.43	20.0	9.0	-17.26	954	43.7	49.1	-148.04	890	150.3	11 29.7	259.34	20.0	9.0	-17.27	944	43.7	49.1	-148.04	906	150.3
13 13.6	268.63	0.	0.	0.	955	39.9	57.8	-165.36	884	160.1	13 25.1	288.54	0.	0.	0.	940	39.9	57.9	-165.35	898	160.1
15 9.0	297.83	-20.0	-9.0	17.26	951	43.7	-49.0	148.06	888	150.3	15 20.5	317.74	-20.0	-9.0	17.27	936	43.7	-49.0	148.10	898	150.3
17 4.4	327.03	-30.0	-13.9	28.53	947	49.4	-44.2	136.77	894	136.0	17 15.0	346.94	-30.0	-13.8	28.55	932	49.4	-44.1	136.81	901	136.0
18 59.9	356.23	-35.0	-16.6	35.85	944	54.0	-41.6	129.43	899	126.0	19 11.4	376.13	-35.0	-16.5	35.86	930	54.0	-41.4	129.48	904	126.0
20 55.3	385.43	-40.0	-19.7	45.46	940	60.7	-38.5	119.81	905	119.3	21 6.8	405.33	-40.0	-19.6	45.49	928	60.7	-38.3	119.85	907	119.3
22 50.7	414.63	-45.0	-23.9	60.73	933	72.4	-34.3	104.54	913	107.6	23 2.3	434.53	-45.0	-23.8	60.76	924	72.4	-34.2	104.58	912	107.6
		-47.4	-29.1	82.61	924	90.0	-29.1	82.65	924	90.0			-47.4	-29.0	82.65	916	90.0	-29.0	82.69	918	90.0
MARCH 17, 1963										MARCH 21, 1963											
0 44.1	83.82	47.4	29.2	-82.60	931	90.0	29.2	-82.64	931	90.0	0 57.7	103.73	47.4	29.1	-82.62	935	90.0	29.1	-82.66	935	90.0
2 41.5	113.02	45.0	25.9	-60.72	940	72.4	34.4	-104.52	921	107.6	2 54.1	132.93	45.0	25.9	-60.75	939	72.4	34.3	-104.54	929	107.6
4 37.0	142.22	40.0	19.7	-45.46	945	60.7	38.6	-119.79	913	119.3	4 48.6	162.13	40.0	19.7	-45.48	941	60.7	38.5	-119.81	924	119.3
6 32.4	171.41	35.0	16.6	-35.85	948	54.0	41.6	-129.42	907	126.0	6 44.0	191.32	35.0	16.5	-35.87	942	54.0	41.6	-129.43	919	126.0
8 27.9	200.61	30.0	13.9	-28.53	950	49.4	44.3	-136.75	902	136.0	8 39.4	220.52	30.0	13.8	-28.55	942	49.4	44.3	-136.75	916	136.0
10 23.3	229.81	20.0	9.0	-17.26	952	43.7	49.1	-148.04	894	150.3	10 34.8	249.72	20.0	9.0	-17.27	941	43.7	49.1	-148.04	909	150.3
12 18.7	259.01	0.	0.	0.	952	49.4	57.8	-165.36	887	160.1	12 30.3	278.92	0.	0.	0.	937	49.4	57.9	-165.35	902	160.1
14 14.2	288.21	-20.0	-9.0	17.26	947	43.7	-49.0	148.07	890	150.3	14 25.7	308.12	-20.0	-9.0	17.28	932	43.7	-49.0	148.10	901	150.3
16 9.6	317.40	-30.0	-13.9	28.53	943	49.4	-44.2	136.78	895	136.0	16 21.1	337.32	-30.0	-13.8	28.55	930	49.4	-44.1	136.81	904	136.0
18 5.0	346.60	-35.0	-16.6	35.86	940	54.0	-41.5	129.45	899	126.0	18 16.6	366.51	-35.0	-16.5	35.88	928	54.0	-41.4	129.48	906	126.0
20 0.5	375.80	-40.0	-19.7	45.47	936	60.7	-38.4	119.82	905	119.3	20 12.0	395.71	-40.0	-19.6	45.50	926	60.7	-38.3	119.86	908	119.3
21 55.9	405.00	-45.0	-23.9	60.74	930	72.4	-34.3	104.55	912	107.6	22 7.4	424.91	-45.0	-23.8	60.77	922	72.4	-34.1	104.58	913	107.6
23 51.3	434.20	-47.4	-29.1	82.62	921	90.0	-29.1	82.66	921	90.0			-47.4	-28.9	82.65	918	90.0	-29.0	82.70	916	90.0
MARCH 18, 1963										MARCH 22, 1963											
1 46.7	103.40	47.4	29.1	-82.61	933	90.0	29.2	-82.65	933	90.0	0 2.9	94.11	47.4	29.0	-82.63	935	90.0	29.1	-82.67	935	90.0
3 42.2	132.59	45.0	25.9	-60.73	940	72.4	34.4	-104.53	924	107.6	1 58.7	123.31	45.0	25.8	-60.75	938	72.4	34.3	-104.56	930	107.6
5 37.6	161.79	40.0	19.7	-45.47	944	60.7	38.6	-119.79	917	119.3	3 54.7	152.51	40.0	19.6	-45.49	939	60.7	38.5	-119.81	925	119.3
7 33.0	190.99	35.0	16.6	-35.85	947	54.0	41.6	-129.42	911	126.0	5 50.7	181.71	35.0	16.5	-35.87	939	54.0	41.6	-129.43	921	126.0
9 28.5	220.19	30.0	13.9	-28.53	948	49.4	44.3	-136.75	906	136.0	7 46.7	210.90	30.0	13.8	-28.55	939	49.4	44.3	-136.75	918	136.0
11 23.9	249.39	20.0	9.0	-17.26	949	43.7	49.1	-148.04	899	150.3	9 42.0	240.10	20.0	9.0	-17.28	937	43.7	49.1	-148.04	912	150.3
13 19.3	278.58	0.	0.	0.	948	39.9	57.9	-165.36	891	160.1	11 37.5	269.30	0.	0.	0.	933	39.9	57.9	-165.35	905	160.1
15 14.8	307.78	-20.0	-9.0	17.27	943	43.7	-48.9	148.08	893	150.3	13 32.9	298.50	-20.0	-8.9	17.28	929	43.7	-48.8	148.10	905	150.3
17 10.2	336.98	-30.0	-13.9	28.54	939	49.4	-44.1	136.79	897	136.0	15 28.3	327.70	-30.0	-13.8	28.56	927	49.4	-44.0	136.81	907	136.0
19 5.6	366.18	-35.0	-16.6	35.86	936	54.0	-41.5	129.46	901	126.0	17 23.8	356.90	-35.0	-16.5	35.89	926	54.0	-41.4	129.48	908	126.0
21 1.1	395.38	-40.0	-19.7	45.48	933	60.7	-38.4	119.83	905	119.3	19 19.2	386.09	-40.0	-19.6	45.51	924	60.7	-38.3	119.86	911	119.3
22 56.5	424.57	-45.0	-23.9	60.75	927	72.4	-34.2	104.56	912	107.6	21 14.6	415.29	-45.0	-23.7	60.78	922	72.4	-34.1	104.59	914	107.6
		-47.4	-29.0	82.63	920	90.0	-29.1	82.67	920	90.0	23 9.1	444.49	-47.4	-28.9	82.66	918	90.0	-28.9	82.70	916	90.0
MARCH 19, 1963										MARCH 23, 1963											
0 51.9	93.77	47.4	29.1	-82.61	934	90.0	29.1	-82.65	934	90.0	1 3.5	113.69	47.4	29.0	-82.64	934	90.0	29.0	-82.68	934	90.0
2 47.3	122.97	45.0	25.9	-60.73	940	72.4	34.4	-104.53	926	107.6	2 58.9	142.89	45.0	25.8	-60.76	936	72.4	34.2	-104.56	930	107.6
4 42.8	152.17	40.0	19.7	-45.47	944	60.7	38.6	-119.80	919	119.3	4 54.1	172.09	40.0	19.6	-45.50	938	60.7	38.4	-119.82	926	119.3
6 38.2	181.37	35.0	16.6	-35.86	945	54.0	41.6	-129.42	914	126.0	6 49.8	201.29	35.0	16.5	-35.88	936	54.0	41.5	-129.44	924	126.0
8 33.6	210.57	30.0	13.9	-28.54	946	49.4	44.3	-136.75	910	136.0	8 45.2	230.48	30.0	13.8	-28.56	935	49.4	44.2	-136.77	920	136.0
10 29.1	239.76	20.0	9.0	-17.27	947	43.7	49.1	-148.05	902	150.3	10 40.6	259.68	20.0	8.9	-17.28	934	43.7	49.1	-148.05	915	150.3