

PROJECT 10073 RECORD CARD

1. DATE 15 April 1963	2. LOCATION 24.43 166.23W (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 16/0630Z	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 east	
10. BRIEF SUMMARY OF SIGHTING MERINT report of glowing object moving East very fast. No identification. Resembled a bright star. Estimated altitude 20,000 ft.		11. COMMENTS Possibility of meteor and possibility of object being a/c. Duration not reported. No evaluation without duration. Case listed as insufficient data. ECHO NOT IN AREA	

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

INCOMING

AF IN : 35462 (16 Apr 63) C/doc

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

SMB C150

ZCZCPH0082V

*****YY RUEAHQ

ZFD RUHPH

PHC A071

*****YY RUEAHQ RUECW

DE RUHPHC 018S

ZNR

Y 161010Z

BH

UNCLAS SVC

ZUI RUEK 09S/ZII2 16/0951Z. (NOTAL) ZDK RUHPHC 031/160903Z

Y 160903Z

FM COMHAWSEAFRON

TO RUUAUAAH/COMD HADD KUNIA

INFO RUHPB/CINCPACFLT

RUWGALB/CINC NORAD ENT AFB, COLO

RUEAHQ/COFSUSAF WASHDC

RUECW/CNO

RUECW/SECNAV

RUHAFS/CINCUSARPAC

RUHPA/CINCPAC

RUHLKSA/PACAF BASE COM, HICKAM AFB

NAVY GRNC

AT 16/0630Z

EC60

0557 290.0
28.5 82.7K
0615
217

47N°

217° W at 0625

NOT IN PARK

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I N C O M I N G

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BT

UNCLAS

MERINT

FOLLOWING RECM FM USNS COSSATOT/TAO 77, QUOTE: MERINT USNS COSSATOT
TAO 77. LAT 24-43N LONG 166-23W 160630Z. SIGHTED GLOWING OBJECT
ALTITUDE 20 DEG COURSE EAST VERY FAST. NO IDENTIFICATION RESEMBLE
BRIGHT STAR UNQUOTE

BT

16/0904Z

BH

16/1010Z

NOTE: ADVANCE COPY TO DIA, NIN & XOPX.

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AF IN: 35476

(16 Apr 63) ~~NC~~ ~~COM~~ ~~ING~~

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

(118)

01

SMB A 166

WWYZCQJA104

OO RUEAHQ

ZNR ZFH1

SU198ZCKSA003

OO RUHLKM RUHPQ RUEAHQ RUECW RUWGALB RUHPA RUTAFS RUHPB RUUAUZ

DE RUHLKH 5

ZNR

O 160900Z

FM 326 AIR DIV KUNIA FACILITY HAWAII

TO RUHLKM/PACAF HICKAM AFB HAWAII

RUHPQ/COMHAWSEAFRON PEARL HARBOR HAWAII

INFO: RUEAHQ/CSAD USAF WASH DC

RUECW/CNO WASH DC

RUECW/SECNAV WASH DC

RUWGALB/CINCNORAD ENT AFB COLO

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I N C O M I N G

AF IN: 35476 (16 Apr 63)

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RUHPA/CINCPAC CAMP H M SMITH HAWAII

RUHAFS/CINCUSARPAC FT SHADTER HAWAII

RUHPB/CINCPACFLT PEARL HARBOR HAWAII

RUAUAZ/COMUSJAPAN FUCHU AS JAPAN/

RUAMCR/COMUSKOREA SEOUL KOREA

RUAGFL/COMUSTDC TAIPEI TAIWAN

RUCSBR/CINCSAC OFFUTT AFB NEBR

BT

UNCLAS/HADOC-D 0710

CURVIS/USNS COSSATOT TA 77 REPORTS POSITION 24 DEGREES 43 MIN NORTH

166 DEGREES 22 MIN 2. AT 160630. SIGHTED GLOWING OBJECT 20 DEGREES ABOVE

HORIZON, TRAVELING TO THE EAST VERY FAST. RESEMBLED

BRIGHT STAR. NO EVALUATION.

BT

16/0910Z APR RUHLKH

NOTE: ADVANCE COPY TO: XOPX, NIN & DIA

APRIL 10, 1963

SATELLITE 1960 IOTA 1, ROWO I

These predictions are based on orbital elements revised on April 3, 1963
 T_0 = April 9.0, times are in days, U.T.
 Argument of perigee = $61.86 + 3.66 (t-T_0)$
 Right ascension of ascending node = $26.618 + 3.2694 (t-T_0)$
 Expected average magnitude = +1

Inclination = 47.2050° Eccentricity = $0.90775 + 4.42 \times 10^{-4} (t-T_0)$

Semi-major axis = 7.857951 megameters

Mean anomaly (Rev.) = $0.3758 + 12.46238 (t-T_0) + 1.158 \times 10^{-4} (t-T_0)^2$

SATELLITE 1960 IOTA 1 FOR OTHER LATITUDES											SATELLITE 1960 IOTA 1 FOR OTHER LATITUDES												
EQUATOR S-A		LAT.	SCOUT-NORTH				NORTH-SOUTH				EQUATOR S-A		LAT.	SCOUT-NORTH				NORTH-SOUTH					
TIME (UT)	LONG. (W)		TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (N-E)	TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (N-E)	TIME (UT)	LONG. (W)		TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (N-E)	TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (N-E)		
APRIL 13, 1963																							
1	2.1	202.47	47.4	28.5	-82.77	880	90.0*	28.5	-82.81	880	90.0*	1	11.6	221.89	47.4	28.6	-82.74	873	90.0*	28.6	-82.78	873	90.0*
2	57.3	231.66	45.0	23.4	-60.95	880	72.5*	23.4	-60.93	882	107.5*	2	7.0	251.08	45.0	23.5	-60.92	880	72.5	33.7	-104.61	870	107.5*
3	52.5	260.85	40.0	19.3	-45.62	882	60.8	17.7	-33.95	885	114.2*	3	2.4	280.27	40.0	19.4	-45.59	887	60.8	37.8	-115.74	870	114.2*
4	48.3	290.04	35.0	16.3	-35.97	885	54.1	10.8	-24.60	889	125.4*	4	57.8	309.45	35.0	16.4	-35.94	893	54.1	40.8	-129.59	871	125.4*
5	41.7	319.23	30.0	13.6	-28.62	888	49.5	8.4	-18.94	893	136.5	5	53.2	338.64	30.0	13.7	-28.60	899	49.5	43.5	-138.93	873	136.5*
10	39.1	348.42	20.0	8.9	-17.32	896	43.7	48.2	-148.24	902	156.3	10	48.5	7.83	20.0	8.9	-17.30	911	43.7	48.2	-148.25	880	156.3
12	34.5	17.61	0.	0.	0.	915	39.9	57.1	-165.56	927	140.1	12	43.4	37.01	0.	0.	0.	936	39.9	57.0	-165.59	901	140.1
14	29.9	46.80	-20.0	-8.9	17.29	935	43.7	-49.6	147.91	945	136.3	14	39.3	66.20	-20.0	-9.0	17.27	960	43.7	-49.7	147.87	929	136.3
16	25.3	75.99	-30.0	-13.8	28.58	951	49.4*	-44.7	136.63	956	130.6	16	34.7	95.39	-30.0	-13.9	28.55	970	49.4*	-44.8	136.59	945	130.6
18	20.7	105.17	-35.0	-16.5	35.90	957	54.0*	-41.9	129.31	962	125.0	18	30.1	124.58	-35.0	-16.7	35.87	975	54.0*	-42.1	129.26	953	125.0
20	16.1	134.36	-40.0	-19.7	45.53	963	60.8*	-38.8	119.69	967	119.7	20	25.5	154.76	-40.0	-19.8	45.48	979	60.8*	-39.0	119.54	961	119.7
22	11.5	163.55	-45.0	-23.9	60.82	965	72.4*	-34.5	104.40	971	107.8*	22	20.8	184.95	-45.0	-24.1	60.77	981	72.4*	-34.7	104.35	971	107.8*
			-47.4	-29.2	82.59	973	90.0*	-29.2	82.63	973	90.0*				-47.4	-29.4	82.54	979	90.0*	-29.4	82.58	979	90.0*
APRIL 14, 1963																							
0	0.8	192.74	47.4	28.5	-82.76	877	90.0*	28.5	-82.81	877	90.0*	0	16.2	212.14	47.4	28.7	-82.73	873	90.0*	28.7	-82.77	873	90.0*
2	2.2	221.93	45.0	23.4	-60.94	879	72.5*	23.4	-60.93	878	107.5*	2	11.6	241.32	45.0	23.6	-60.91	881	72.5	23.7	-60.90	868	107.5*
3	57.8	251.12	40.0	19.3	-45.61	882	60.8	17.7	-33.95	881	114.2*	3	7.0	270.51	40.0	19.5	-45.58	889	60.8	37.8	-115.74	867	114.2*
4	53.0	280.31	35.0	16.3	-35.96	886	54.1	10.8	-24.60	885	125.4*	4	2.4	299.69	35.0	16.4	-35.93	896	54.1	40.8	-129.58	868	125.4*
5	48.4	309.50	30.0	13.6	-28.62	890	49.5	8.4	-18.94	890	136.5*	5	57.8	328.86	30.0	13.7	-28.59	903	49.5	43.5	-138.93	869	136.5*
9	43.8	338.69	20.0	8.9	-17.31	899	43.7	48.2	-148.25	907	156.3	9	53.1	358.07	20.0	8.9	-17.29	916	43.7	48.2	-148.24	875	156.3
11	39.2	7.86	0.	0.	0.	920	39.9	57.0	-165.57	917	140.1	11	48.5	27.25	0.	0.	0.	941	39.9	57.0	-165.59	905	140.1
13	34.6	37.04	-20.0	-9.0	17.29	944	43.7	-49.6	147.90	942	136.3	13	43.4	56.44	-20.0	-9.0	17.27	965	43.7*	-49.7	147.86	924	136.3
15	30.0	66.23	-30.0	-13.8	28.57	956	49.4*	-44.7	136.62	955	130.6	15	39.3	85.63	-30.0	-14.0	28.54	975	49.4*	-44.9	136.56	940	130.6
17	25.4	95.44	-35.0	-16.5	35.89	962	54.0*	-42.0	129.30	961	125.0	17	34.7	114.81	-35.0	-16.7	35.86	979	54.0*	-42.2	129.25	949	125.0
19	20.8	124.63	-40.0	-19.7	45.52	967	60.8*	-38.8	119.68	967	119.7	19	30.0	144.00	-40.0	-19.8	45.48	981	60.8*	-39.0	119.54	958	119.7
21	16.2	153.82	-45.0	-23.9	60.81	973	72.4*	-34.5	104.39	972	107.8*	21	25.5	173.18	-45.0	-24.2	60.76	982	72.4*	-34.8	104.34	969	107.8*
23	11.5	183.01	-47.4	-29.2	82.58	975	90.0*	-29.2	82.62	975	90.0*	23	20.8	202.37	-47.4	-29.4	82.53	978	90.0*	-29.4	82.57	978	90.0*
APRIL 15, 1963																							
1	6.9	212.76	47.4	28.5	-82.76	876	90.0*	28.5	-82.80	876	90.0*	1	16.2	231.96	47.4	28.7	-82.72	874	90.0*	28.7	-82.76	874	90.0*
2	2.3	241.95	45.0	23.4	-60.93	879	72.5*	23.4	-60.92	878	107.5*	2	11.6	261.15	45.0	23.6	-60.89	884	72.5	23.7	-60.88	867	107.5*
3	57.8	270.57	40.0	19.3	-45.60	883	60.8	17.7	-33.95	882	114.2*	3	7.0	290.34	40.0	19.5	-45.57	893	60.8	37.9	-115.72	868	114.2*
4	53.1	299.76	35.0	16.3	-35.96	888	54.1	10.8	-24.60	887	125.4*	4	2.4	319.53	35.0	16.4	-35.92	901	54.1	40.9	-129.57	869	125.4*
5	48.5	328.95	30.0	13.6	-28.61	892	49.5	8.4	-18.94	891	136.5*	5	57.8	348.70	30.0	13.8	-28.58	908	49.5	43.5	-138.92	870	136.5*
9	43.9	358.14	20.0	8.9	-17.31	902	43.7	48.2	-148.25	901	156.3	9	53.1	377.89	20.0	8.9	-17.29	922	43.7	48.2	-148.23	876	156.3
11	39.3	7.93	0.	0.	0.	923	39.9	57.0	-165.58	912	140.1	11	48.5	37.07	0.	0.	0.	946	39.9	57.0	-165.59	906	140.1
13	34.7	37.11	-20.0	-9.0	17.29	949	43.7	-49.7	147.89	942	136.3	13	43.4	66.26	-20.0	-9.1	17.26	970	43.7*	-49.7	147.86	916	136.3
15	30.1	66.30	-30.0	-13.9	28.56	961	49.4*	-44.8	136.61	952	130.6	15	39.3	95.45	-30.0	-14.0	28.53	975	49.4*	-44.9	136.57	925	130.6
17	25.5	95.49	-35.0	-16.6	35.88	967	54.0*	-42.0	129.29	964	125.0	17	34.7	124.64	-35.0	-16.7	35.85	982	54.0*	-42.2	129.24	934	125.0
19	20.9	124.68	-40.0	-19.8	45.51	972	60.8*	-38.9	119.67	969	119.7	19	30.0	143.83	-40.0	-19.8	45.46	984	60.8*	-39.0	119.55	943	119.7
21	16.3	153.87	-45.0	-23.9	60.79	976	72.4*	-34.6	104.37	972	107.8*	21	25.5	173.02	-45.0	-24.2	60.75	983	72.4*	-34.8	104.32	952	107.8*
23	11.6	183.06	-47.4	-29.2	82.57	977	90.0*	-29.2	82.61	977	90.0*	23	20.8	202.21	-47.4	-29.4	82.52	978	90.0*	-29.4	82.56	978	90.0*
APRIL 16, 1963																							
0	11.2	202.45	47.4	28.6	-82.75	874	90.0*	28.6	-82.79	874	90.0*	0	20.3	221.71	47.4	28.8	-82.70	875	90.0*	28.8	-82.74	875	90.0*
2	7.0	231.64	45.0	23.5	-60.91	879	72.5	23.7	-60.91	879	107.5*	2	16.2	250.97	45.0	23.7	-60.88	886	72.5	23.8	-60.87	867	107.5*
3	57.4	260.83	40.0	19.4	-45.60	885	60.8	17.8	-33.95	884	114.2*	3	11.5	280.15	40.0	19.6	-45.56	897	60.8	37.9	-115.70	868	114.2*
4	52.8	290.02	35.0	16.4	-35.95	890	54.1	10.9	-24.59	889	125.4*	4	6.9	309.34	35.0	16.5	-35.91	905	54.1	41.0	-129.55	869	125.4*
5	48.2	319.21	30.0	13.7	-28.61	895	49.5	8.5	-18.94	894	136.5*	5	2.2	338.52	30.0	13.8	-28.57	913	49.4	41.0	-138.90	871	136.5*
9	43.5	348.40	20.0	8.9	-17.30	902	43.7	48.2	-148.25	902	156.3	9	57.5	377.71	20.0	8.9	-17.28	924	43.7	48.2	-148.22	877	156.3
11	39.4	7.96	0.	0.	0.	930	39.9	57.0	-165.59	907	140.1	11	48.6	36.89	0.	0.	0.	954	39.9	57.0	-165.58	882	140.1
13	34.8	37.17	-20.0	-9.0	17.28	956	43.7	-49.7	147.88	948	136.3	13	43.5	66.08	-20.0								