

PROJECT 10073 RECORD CARD

1. DATE 15 June 1963		2. LOCATION 33.40N 175.00W (Pacific)		12. CONCLUSIONS ☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon ☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft ☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical ☒ Other Satellite ECHO I ☐ Insufficient Data for Evaluation ☐ Unknown	
3. DATE-TIME GROUP Local _____ GMT 16/0947Z		4. TYPE OF OBSERVATION ☐ Ground-Visual ☐ Ground-Radar ☒ Air-Visual ☐ Air-Intercept Radar			
5. PHOTOS ☐ Yes ☒ No		6. SOURCE military			
7. LENGTH OF OBSERVATION 11 minutes		8. NUMBER OF OBJECTS one		9. COURSE NE	
10. BRIEF SUMMARY OF SIGHTING One bright white object about the size of a star appearing at 30 deg elevation heading 050 deg. Faded at 15 deg elevation. Speed slow. In sight for 11 min.				11. COMMENTS At 16/0907Z ECHO crossed the equator heading NE at 137 deg E. This places the Satellite in a position to be observed by the witnesses.	

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

INCOMING

Z

AF IN : 1838 (16 Jun 60) S/jej

Pg 1 of 2

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-25, DIA/CIIC-2
-125-

SMB C018

ZCHQA533ZCECA086

.....YY RUEAHQ

DE RUHPF B024

ZNR

Y 161011Z

FM COMBARPAC

TO RUHPHH/COMHAWSEAFRON

RUHLKM/CINCPACAF

RUUAUAH/HADD KUNIA

ZEN/CINCNORAD

INFO RUECW/CNO

RUEAHQ/COFS USAF

RUHPA/CINCPAC

RUHPB/CINCPACFLT

RUHAFS/CINCUSARPAC

RUHLKMP/PACAFBASECOM HICKAM

RUECW/SECNAV

NAVY GRNC

BT

UNCLAS.

A. JANAP 146D

1. CIRVIS REPORT

2. BARRIER AIRCRAFT N43200

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

INCOMING

AF IN : 1838 (16 Jun 63)

Pg 2 of 2

3. ONE BRIGHT WHITE OBJECT ABOUT SIZE OF STAR
4. AIRCRAFT POSIT 33-40N 175-00W
5. 160930Z
6. 30 DEGREES ABOVE HORIZON
7. COURSE 050 DEGREES
8. SPEED SLOW
9. OBJECT 45 DEGREES ABOVE HORIZON AT 0936Z
OBJECT FADED 15 DEGREES ABOVE HORIZON AT 0947Z
10. EVALUATION UNKNOWN

BT

16/1012Z

NOTE: Adv cy delivered to XOPX, NIN & DIA.

15 16/0930

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

INCOMING

WAS
ECF

Frederick
91

AF IN : 1861 (16 Jun 63) M/gjl

INFO : NIN-9, XOP-1, XOPX-4, SAF-OS-3, JCS-35, ARMY-2,
CMC-8, OSD-15, CIA-11, NSA-7, DIA-25, DIA/CIIC-2 (123)

Page 1 of 2.

SMB A026

CHQA539ZCQJA132

00 RUEAHQ

DE RUHLKH 3

ZNR

O 161039Z

FM 326 AIR DIV KUNIA FACILITY HAWAII

TO RUHLKM/PACAF HICKAM AFB HAWAII

RUHPHH/COMHAWSEAFRON PEARL HARBOR HAWAII

INFO RUEAHQ/CSAF USAF WASH DC

RUECW/CNO WASH DC

RUECW/SECNAV WASH DC

RUWGALE/CINCNOAD ENT AFB COLO

RUHPA/CINCPAC CAMP H M SMITH HAWAII

RUHAFS/CINCUSARPAC FT SHAFTER HAWAII

RUHPB/CINCPACFLT PEARL HARBOR HAWAII

RUUAZ/COMUSJAPAN FUCHU AS JAPAN

RUAMC/COMUSKOREA SEOUL KOREA

RUAGFL/COMUSTDC TAIPEI TAIWAN

RUCSBRB/C INCSAC OFFUTT AFB NEBR

AF GRNC

BT

UNCLAS/HADOC-D 1068 CIRVIS

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

INCOMING

AF IN : 1861 (16 Jun 63)

Pg 2 of 2.

PACIFIC BARRIER A/C NAVY-1 43200

SIGHTED ONE BRIGHT WHITE OBJECT ABOUT THE SIZE OF A STAR
33 DEGREES 40 MINS NORTH 175 DEGREES 00 MIN WEST A 16/0930Z
INITIALLY APPEARED 30 DEGREES ABOVE THE HORIZON HEADING 050
DEGREES, TRAVERSED TO 45 DEGREES ABOVE HORIZON AT 16/0936.
FADED 15 DEGREES ABOVE HORIZON A 16/0947Z SPEED SLOW. NO
ELEVATION.

BT

16/1041Z JUN RUHLKH

NOTE: Adv cy's del to NIN, DIA, and XOPX.

NNNN

JUNE 5, 1963

SATELLITE 1960 IOTA 1, ECHO 1

These predictions are based on orbital elements revised on June 3, 1963

T₀ = June 4.0, times are in days, U.T.Argument of perigee = 274.306 + 1.3877 (t - T₀)Right ascension of ascending node = 203.064 - 1.2982 (t - T₀)

Inclination = 47.2357

Eccentricity = 0.044912 + 6.72 × 10⁻⁴ (t - T₀)

Semi-major axis = 7.862655 megameters

Mean anomaly (Rev.) = 0.32590 + 12.498859 (t - T₀) + 3.0851 × 10⁻⁴ (t - T₀)²

EQUATOR

S-N

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

SATELLITE 1960 IOTA 1
FOR OTHER LATITUDES

SOUTH-NORTH

NORTH-SOUTH

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

EQUATOR

S-N

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

SATELLITE 1960 IOTA 1
FOR OTHER LATITUDES

SOUTH-NORTH

NORTH-SOUTH

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.

TIME

LONG.

(UT)

(M)

LAT.