PROJECT 10073 RECORD CARD

1. DATE 15 July 1963 3. DATE-TIME GROUP Local GMT_15/1206Z 5. PHOTOS	22.02N 117.00E 4. TYPE OF OBSERVATIO Ground-Visual XX BX BX Air-Visual	FAREITST) N Ground-Rador Air-Intercept Rador	12. CONCLUSIONS Was Balloon Probably Balloon Possibly Balloon Probably Aircraft Probably Aircraft Possibly Aircraft Was Astronomical		
D Yes DKNo	Military		D Probably Astronomical D Possibly Astronomical		
7. LENGTH OF OBSERVATION 6 minutes	one	9. COURSE	Other Sattellite ECHO I Insufficient Data for Evaluation Unknown		
White object size of 1st man high speed and high altitude in flight from 60 deg elevator 20 deg elevation 140 deg to be Satellite.	le observed for 6 min tion 165 deg azimuth	n at 35.90 longitude at 1210Z ECHO			

ATIC FORM 329 (REV 26 SEP 52)

AND THE COMMENT OF THE PROPERTY OF THE PROPERT

MAAMF MES	TURG	UNIV	P149914 1ED	的問以	UCPARIM	CIVE
PRIORITY	(ACTION)	RELEASED BY	D	RAFTED BY	EXT.	NO.
PRIORITY	(INFO)					
	A)	F IN: 392	221 (15 Jul 6	63)R/joe		12
P. 1514202 FM USS MARSH	AF I	DIST: NIN-	-9, XOP-1, XO -CÍIC-3 (45)	PX-4, SAFO	S-3, DIA-25	
TO RUMAL C/CL	ARK AFB		Served Mid To.			
INFO RUECW/C COMSEVENTHEL CTF 72 COMDESTION 7	The second secon		CINCPACE COMNAVPH CTG 72.1 COMDESEL			
EFTO	E	FTO			EFTO .	
UNCLAS EFTO						
A. CINCPACELT	INST 382	0.3				
UNIFORM FOXTE	OT OSCAR	o - Dadk Alba			415	
I. A. UNKNOWN B. FIRST N C. WHITE D. NONE E. NONE F. TRAVELI G. NONE H. NONE I. NONE	NG AT HIGH T RELATIVE BEARING 16 BEARING 14 COURSE 140	TO STARS DEG DEG DEG	HIGH ALTITUE		35.9° 155. 114°E	
ECNAV 00 09 0 SAF CMC COGAF	AD CIA NIC	NA VA IDE F	LAGPLOT BFR		•	
6266/JRC/JB/A	B249	PAGE OF	PAGES TIME OF RE	15 JUL	DATE TIME GROUP	L 53
		IIMC	ACCIFIED			

BULL GAR BAR	001102	•	TEX			
PRECEDENCE		RELEASED BY	DRAFTED BY	EXT. NO.		
	(INFO)					

4. A. 15 12 06Z

B. NIGHT

5. 22 DEG OZ MIN NORTH, 117 DEG OO MIN EAST

6. A. NEGAT

B. HOPPER, H.K. CDR USN, COMMANDING OFFICER AND BUTLER, C.P.

LTJG U NR, OFFICER OF THE-POSITIVE RELIABILITY

7. A. CLEAR

B. NONE

C. UNLIMITED

D. UNLIMITED E. ONE EIGHTM

F. NONE

8 UNKNOWN

11. COMMANDING OFFICER-BELIEVED TO BE SAATELITE

12 . NONE

		Distre I			TIME OF RECEIPT	DATE TIME GROUP	
CONTROL NO.	CIRCUIT NO.	PAGE	OF	PAGES	TIME OF RECENT		
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96256	100	10		==			

UNCLASSIFIED

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ECUATOR	SATELLITE 1960 TOTA 1 FOR OTHER LATE	ILDES .		SATELLITE 1960 IOTA 1	
TIME ICAG. LA .	SCUTH-NORTH	NORTH-SCUTH	S-N	FOR OTHER LATI	
(LT) (W)	CERP. CERR. (NI) (N-E)	COPR. CCRR. (MI) (N-E) (UT)		TRE LONG. HT. BEAR.	TIME LCNG. HT.
	JULY 14, 1963			JULY 18, 1963	
0 47.7 232.01 47 5 2 47.8 241.12 45.0 4 37.8 290.22 40.0 6 32.9 319.33 15.0 8 27.5 348.43 30.0 10 23.0 17.54 20.0 112 18.0 45.84 0. 14 13.1 75.75 -20 0 16 8.1 164.65 -10 0 17 3.1 133.96 -35.0 19 58.2 163.06 -40.0 21 53.2 192.17 -45.0 23 48.3 221.27 -47.5	21.6 -61.07 673 12.2 17.9 -45.81 668 60.7 15.1 -36.15 672 54.0 12.7 -26.78 680 49.4 8.3 -17.41 706 43.7 C. 0. 787 39.9 -8.6 17.32 899 43.60 -13.5 26.57 966 49.30 -16.2 35.86 1002 53.50 -19.5 45.41 1040 60.60 -23.9 60.50 1087 72.20	31.2 -105.57 730 107.8* 2 35. 35.1 -120.80 765 119.3* 4 30. 38.0 -130.43 8C2 126.0* 6 25. 40.6 -137.76 833 130.6* 8 20. 45.3 -149.04 894 136.4* 10 15. 54.3 -166.27 1009 140.2 12 10. -51.5 147.47 1106 136.5 14 5. -46.2 136.33 1140 130.8 16 0. -43.3 129.09 1152 126.2 17 55. -39.9 119.58 1159 119.4 19 50. -35.3 104.53 1155 107.9 21 45.	.C 276.32 45.0 2 .1 305.42 40.0 1 .1 334.53 35.0 1 .2 3.63 30.0 1 .2 32.73 20.0 .2 61.84 03 90.54 -20.0 -1 .4 149.14 -35.0 -1 .4 178.25 -40.0 -2 .4 207.35 -45.0 -2	26.6 -83.24 673 90.0 21.9 -61.00 669 72.2 18.2 -45.74 676 60.7 15.4 -36.08 691 54.0 12.9 -28.71 707 49.4 8.5 -17.37 747 43.7 0. C. 847 39.9 13.8 28.48 1029 49.3 13.8 28.48 1029 49.3 16.7 35.75 1061 53.9 20.0 45.28 1094 60.6 24.4 60.35 1129 72.1 30.2 82.34 1156 90.0	26.6 -83.28 673 31.4 -1C5.52 694 35.2 -120.77 722 38.1 -130.41 748 4C.6 -137.75 775 45.2 -145.06 830 53.9 -166.35 944 -52.0 147.34 1057 -46.9 136.17 11 C7 -43.9 128.92 11 28 -40.6 119.41 1147 -36.0 104.36 1160 -3C.2 82.38 11 56
	JULY 15, 1963			JULY 19, 1963	
1 43.3 250.38 47.5 3 36.4 279.48 45.0 5 33.4 366.59 40.0 7 78.5 337.89 35.0 9 23.5 6.86 36.0 11 13.6 35.50 26.0 13 13.6 65.00 15 8.7 94.11 -20.0 17 3.7 123.21 .0 16 56.8 152.37 62.0 20 53.8 161.42 -95.0 27 48.5 216.53 -45.0	21.7 -61.0£ 67C 72.2 17.9 -45.7\$ 669 6C.7 15.1 -36.13 675 54.C 12.7 -28.7£ 68£ 45.4 8.3 -17.40 715 43.7 0. C. 802 35.9 -8.7 17.31 917 43.60 -11.6 28.15 687 49.31 -15.6 35.83 161£ 53.90 -19.6 45.37 1655 60.60 -25.0 66.46 1099 72.20	31.2 -105.56 720 107.8. 3 30. 5.25. 35.1 -120.80 755 119.3. 7 20. 38.0 -130.43 787 126.0. 9 15. 40.5 -137.76 817 130.6. 9 15. 45.2 -149.05 877 136.3. 11 10. 54.2 -166.30 973 140.2 13 551.6 147.43 1094 136.5 15 066.4 136.28 1133 130.8 16 5566.4 136.28 1133 130.8 18 50.	.5 294.66 45.0 2 .6 323.76 40.0 1 .6 352.86 35.0 1 .7 21.96 30.0 1 .7 51.06 20.0 .7 80.17 c8 109.27 -20.0 -1 .8 138.37 -30.0 -1 .9 196.57 -40.0 -2 .9 225.68 -45.0 -2	26.7 -83.22 67C 90.0 22.0 -6C.98 671 72.2 18.2 -45.71 683 6C.7 15.4 -36.06 699 54.0 13.0 -28.70 717 49.4 8.5 -17.35 760 43.7 0. C. 563 37.7 -8.9 17.25 982 43.6 13.9 28.45 1044 49.3 13.9 28.45 1044 49.3 16.8 35.72 1075 53.9 20.1 45.25 1105 6C.6 24.6 6C.32 1137 72.1 30.4 82.36 1159 90.0	26.7 -83.26 670 31.5 -105.50 687 35.3 -120.75 712 38.1 -130.39 736 40.6 -137.74 761 45.2 -145.06 814 53.9 -160.37 727 -52.1 147.31 1043 -47.0 130.13 1075 -44.1 178.08 1119 -40.7 119.37 1140 -36.2 104.31 1158 -36.4 82.34 1159
	HULY 16, 1963			JULY 20, 1963	
0 24.1 356.05 39.0 10 19.1 25.15 70.0 12 14.2 54.25 6. 14 9.2 83.36 -26.0 16 4.3 112.46 -30.0 17 59.3 141.57 -25.0 19 54.4 170.67 -40.0 21 49.4 199.77 -45.0 23 44.4 228.88 -47.5	10.0 -65.74 671 77 12.8 -28.75 692 49.4 8.4 -17.39 725 43.7 0. 0. 816 39.9 -8.7 17.29 933 43.60 -13.7 28.52 998 49.30 -16.5 35.80 1032 53.90 -19.7 45.34 1068 60.60 -24.2 60.43 1110 72.20	11. 1 -105.55 711 107.8 2 31. 15.1 -120.79 745 115.30 4 26. 18.0 -130.42 774 126.00 6 16. 40.5 -137.76 803 130.60 10 11. 45.2 -149.06 861 136.30 12 6. 54.1 -166.32 977 140.20 12 6. -51.8 147.40 1083 136.5 14 1. -40.6 136.24 1125 130.8 17 51. -40.2 119.49 1155 119.4 21 46.2 19 46.	.C 283.88 45.0 2 .0 312.98 40.0 1 .1 342.08 35.0 1 .1 11.18 30.0 1 .1 40.29 20.0 .2 69.39 02 98.49 -20.0 -2 .3 156.69 -35.0 -1 .3 185.79 -40.0 -2 .3 214.89 -45.0 -2	26.8 -83.19 669 90.0 27.1 -60.95 673 72.2 18.3 -45.69 669 60.7 15.5 -36.04 707 54.0 13.1 -28.68 727 49.4 8.6 -17.34 772 43.7 0. 0. 879 39.90 -9.0 17.23 998 43.60 14.0 28.43 1057 49.30 16.9 35.69 1087 53.90 20.2 45.22 1115 60.60 24.7 60.28 1144 72.1 30.5 82.26 1161 90.0	26.8 -83.24 669 11.6 -105.47 681 35.3 -120.73 703 38.2 -130.37 725 40.7 -137.73 749 45.2 -145.05 799 53.9 -166.37 911 -52.2 147.29 1029 -47.1 136.11 1084 -44.2 128.85 1110 -40.8 119.34 1133 -36.3 104.28 1154 -30.5 82.31 1161
	JULY 17, 1963	PCD1F	IED CRBITAL ELEPENTS FO	CR EARTH SATELLITE 1960 1017	A 1
1 39.5 257.98 47.5 3 34.5 287.08 . 45.0 5 29.6 316.19 . 40.0 7 24.6 345.29 35.0 9 19.7 14.35 30.0 11 14.7 43.50 20.0 13 9.7 .72.60 0. 15 4.8 101.70 -20.0 16 59.8 130.81 -30.0 18 54.9 159.9135.0 20 49.9 189.01 -40.0 22 44.9 218.12 -45.0	21.8 -61.02 665 72.2 18.1 -45.76 674 60.7 15.3 -36.10 685 54.0 12.8 -28.73 695 49.4 8.4 -17.38 736 43.7 0. 0. 832 39.9 -8.8 17.28 950 43.6 -13.8 28.50 1014 49.3 -16.6 35.77 1047 53.9 -19.8 45.31 1082 60.6	26.6 -83.30 677 90.0 31.3 -105.54 702 107.8 35.1 -120.78 732 119.3. 38.0 -13C.42 760 126.0. 40.6 -137.76 788 130.6. 45.2 -149.06 845 136.3. 54.0 -166.34 960 140.2. -51.9 147.36 -1070 136.5 -46.7 136.20 1116 130.7 -43.8 128.96 1135 126.2 RACIUS	ENCE TIME 1963 Y 7 M NATION 47.28 CEG. DING NGCE (LONG.) 203.6 SHEEP INTERVAL ONE DA ENT CF PERIGEE 32.13 D RATE OF CHANGE 0.30925 LISTIC PERIOD 115.158 M RATE CF CHANGE -0.00014 IRICITY 0.05011 S GF PERIGEE 4627.5 MI S CF APCGEE 5115.7 MI	ED 1 H 11.12 H UT SZ EEG. WEST AY -16.95 HIN. DEG. DEG. PER PERIOD MIN. HIN. PER PERIOD	

-35.8 104.40 1160 107.9

-30.0 82.42 1151 90.0

22 44.9 218.12 -45.0 -24.3 60.39 1120 72.10

-47.5 -30.0 82.38 1151 90.0

RADIUS CF APCGEE 5115.7 HILES

READ-IN EXPECTED

ASCENDING NODE (R.A.) 97.29 DEG.

RATE CF CHANGE -0.10 HILES PER CAY

LATITUCE OF PERIGEE 23.00 DEG.

RATE CF CHANGE -3.30358 DEG. PER CAY

HT. BEAR. (HI) (N-E)

673 90.0 694 107.8 722 119.30

748 126.0° 775 130.6° 830 136.3°

944 140.20 1057 136.4 11 07 130.7 1128 126.2 1147 119.4 1160 107.9 11 56 90 . C

670 90.0 687 107.8 712 119.30 736 126.0. 761 130.60 814 136.30 721 146.20 1043 116.4 1095 130.7 1119 176.2 1140 119.4

1158 107.9

669 90.0 681 161.1 703 117.3 725 126.0. 749 130.60 799 136.30 911 146.10 1029 136.4 1084 130.7 1110 126.1 1133 119.4 1154 107.9 1161 90.0