

PROJECT 10073 RECORD CARD

1. DATE 13 April 1963		2. LOCATION Moorcroft, Wyoming		12. CONCLUSIONS ☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon ☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft ☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical ☒ Other <u>Satellite Echo I</u> ☐ Insufficient Data for Evaluation ☐ Unknown	
3. DATE-TIME GROUP Local 1930-2030 GMT		4. TYPE OF OBSERVATION ☒ Ground-Visual ☐ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar			
5. PHOTOS ☐ Yes ☒ No		6. SOURCE Civilian			
7. LENGTH OF OBSERVATION 15 minutes		8. NUMBER OF OBJECTS one		9. COURSE southeast	
10. BRIEF SUMMARY OF SIGHTING Flying object that looked just like a star observed in flight to SE at fairly fast speed. Passed overhead. Believed to be satellite or weather device.				11. COMMENTS Echo was over Wyoming at 1938 on 13 April heading SE & had all characteristics of rptd obj. Case evaluated as Echo I, Balloon.	

ARR

Monocraft, 1000
 June 3-1953

National Space
 15. 5. 1953
 Washington, D.C.



On the night of April 13, between 10:00
 8:00 PM a large object, appearing first
 as a star point, was seen rising in the
 sky. It was then seen traveling at
 a high rate of speed from the
 horizon to the top of the field of vision.
 (of it up to 10:00 PM)

This object could have been a satellite
 or a meteor. It was seen at a distance of
 about 100 miles. It was seen for about
 10 minutes. It was seen by several
 people. It was seen in a clear sky.
 It was seen at a high altitude.
 It was seen at a high speed.

DEPARTMENT OF THE AIR FORCE
OFFICE OF THE SECRETARY

MEMORANDUM

June 10, 1963

Sgt Moody:

Request basis for reply
of the attached letter from:

[REDACTED]

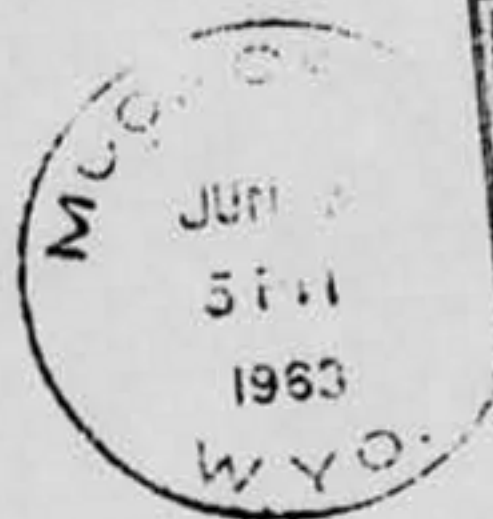
Moorcroft, Wyo.

[REDACTED]

See also over looking at
738 PM Hearing SE.

AFTER FIVE DAYS RETURN TO

Miss [redacted]
Monmouth, N.J.
Box [redacted]



National Space Agency
U.S. Government
Washington, D.C.

HEADQUARTERS
FOREIGN TECHNOLOGY DIVISION
AIR FORCE SYSTEMS COMMAND
UNITED STATES AIR FORCE
WRIGHT-PATTERSON AIR FORCE BASE, OHIO



REPLY TO
ATTN OF: TDE

SUBJECT: UFO Sighting ([REDACTED])

14 June 1963

TO: Hq USAF SAF-OI 3b (Major Hart)
Wash 25 DC

1. Reference the attached letters regarding UFO sightings. These letters are forwarded to your office for whatever action you deem necessary.
2. Mr. [REDACTED] sighting of 28 May is similar to many reported observations of aircraft contrails with the sun reflecting on them at dusk.
3. There are several White Sands sightings and no information can be forwarded unless a specific date is given. The movie "UFO" was a Green-Rouse production based on the Tremonton photos, which were evaluated as seagulls, and the Mariana pictures, which were evaluated as two F-94 aircraft.
4. The sighting of Miss [REDACTED] has been evaluated as Echo. This satellite was over Wyoming at 7:38 PM on the night of 13 April and was heading southeast.
5. Mrs. [REDACTED] sighting of 15 May is now under study.

FOR THE COMMANDER

Eric T. de Jonckheere
ERIC T. de JONCKHEERE
Colonel, USAF
Deputy for Technology & Subsystems

3 Atch
1. Ltr fm [REDACTED]
2. Ltr fm [REDACTED] dtd
3 June 1963.
3. Ltr fm [REDACTED]
dtd 16 May 63.

19 June 1963

Dear M [REDACTED]

Your sighting has been evaluated as Echo. This satellite was over Wyoming at 7:38 PM on the night of 13 April and was heading southeast.

Your interest in Air Force matters is appreciated.

Sincerely,

WILLIAM J. LOOKADOO
Lt. Colonel, USAF
Public Information Div
Office of Information

SATELLITE 1960 IOTA 1 FOR OTHER LATITUDES										
EQUATOR S-N			SOUTH-NORTH				NORTH-SOUTH			
TIME (UT)	LONG. (W)	LAT.	TIME CORR.	LONG. CORR. (MI)	HT. (MI)	BEAR. (N-E)	TIME CORR.	LONG. CORR. (MI)	HT. (MI)	BEAR. (N-E)
APRIL 7, 1963										
0 47.2	173.11	47.4	28.9	-82.67	945	90.0*	28.9	-82.71	945	90.0*
2 42.6	202.30	45.0	23.6	-60.68	939	72.3*	23.6	-60.69	939	72.3*
4 38.0	231.50	40.0	19.5	-45.47	933	60.7*	19.5	-45.48	933	60.7*
6 33.4	260.69	35.0	16.4	-35.87	928	54.0*	16.4	-35.88	928	54.0*
8 28.8	289.88	30.0	13.7	-28.55	923	49.4	13.7	-28.56	923	49.4
10 24.2	319.08	20.0	8.9	-17.28	915	43.7	8.9	-17.29	915	43.7
12 19.7	348.27	0.	0.	0.	903	39.9	0.	0.	903	39.9
14 15.1	17.47	-10.0	-8.8	17.29	898	43.7	-8.8	17.29	898	43.7
16 10.5	46.66	-30.0	-13.6	28.57	893	49.4	-13.6	28.57	893	49.4
18 5.9	75.86	-45.0	-16.2	35.89	899	54.0	-16.2	35.89	899	54.0
20 1.3	105.05	-40.0	-19.3	45.50	901	60.7*	-19.3	45.50	901	60.7*
21 56.7	134.25	-45.0	-23.4	60.73	903	72.3*	-23.4	60.73	903	72.3*
23 52.2	163.44	-47.4	-28.6	82.74	906	90.0*	-28.6	82.74	906	90.0*

APRIL 8, 1963											
1	37.6	192.63	47.4	28.9	-82.67	944	90.0*	28.9	-82.71	944	90.0*
3	33.0	221.83	45.0	23.6	-60.68	937	72.3*	23.6	-60.70	937	72.3*
5	28.4	251.02	40.0	19.5	-45.47	931	60.7*	19.5	-45.48	931	60.7*
7	23.8	280.22	35.0	16.4	-35.87	926	54.0*	16.4	-35.88	926	54.0*
9	19.2	309.41	30.0	13.7	-28.56	921	49.4	13.7	-28.56	921	49.4
11	14.7	338.61	20.0	8.8	-17.28	913	43.7	8.8	-17.29	913	43.7
13	10.1	17.80	0.	0.	0.	902	39.9	0.	0.	902	39.9
15	5.5	46.99	-10.0	-8.8	17.29	897	43.7	-8.8	17.29	897	43.7
17	0.9	76.19	-30.0	-13.6	28.57	892	49.4	-13.6	28.57	892	49.4
19	5.3	105.38	-45.0	-16.2	35.89	898	54.0	-16.2	35.89	898	54.0
21	0.8	134.58	-40.0	-19.3	45.51	900	60.7*	-19.3	45.51	900	60.7*
22	57.2	153.77	-45.0	-23.4	60.73	902	72.3*	-23.4	60.73	902	72.3*
			-47.4	-28.6	82.74	905	90.0*	-28.6	82.74	905	90.0*

APR 11 9, 1963											
0	52.6	192.97	47.4	28.9	-82.69	942	90.0*	28.9	-82.72	942	90.0*
2	48.0	222.16	45.0	23.6	-60.69	936	72.3*	23.6	-60.71	936	72.3*
4	43.4	251.35	40.0	19.5	-45.48	929	60.7*	19.5	-45.49	929	60.7*
6	38.8	280.55	35.0	16.4	-35.87	924	54.0*	16.4	-35.89	924	54.0*
8	34.2	299.74	30.0	13.7	-28.56	919	49.4	13.7	-28.57	919	49.4
10	29.7	328.94	20.0	8.9	-17.29	911	43.7	8.9	-17.29	911	43.7
12	25.1	358.13	0.	0.	0.	901	39.9	0.	0.	901	39.9
14	20.5	27.32	-20.0	-8.8	17.29	896	43.7	-8.8	17.29	896	43.7
16	15.9	56.52	-40.0	-13.6	28.57	891	49.4	-13.6	28.57	891	49.4
18	11.3	85.71	-45.0	-16.3	35.89	897	54.0	-16.3	35.89	897	54.0
20	6.7	114.91	-40.0	-19.3	45.51	902	60.7*	-19.3	45.51	902	60.7*
22	2.2	144.10	-45.0	-23.4	60.73	905	72.3*	-23.4	60.73	905	72.3*
23	57.6	173.29	-47.4	-28.6	82.74	910	90.0*	-28.6	82.74	910	90.0*

APRIL 10, 1963											
1	83.6	202.49	47.4	28.9	-82.69	940	90.0*	28.9	-82.72	940	90.0*
3	86.8	231.68	45.0	23.6	-60.69	934	72.3*	23.6	-60.71	934	72.3*
5	83.0	260.88	40.0	19.5	-45.48	927	60.7*	19.5	-45.49	927	60.7*
7	84.2	290.07	35.0	16.4	-35.88	922	54.0*	16.4	-35.89	922	54.0*
9	84.7	319.27	30.0	13.6	-28.56	917	49.4	13.6	-28.57	917	49.4
11	10.1	183.46	20.0	8.9	-17.29	909	43.7	8.9	-17.29	909	43.7
13	25.5	17.65	0.	0.	0.	899	39.9	0.	0.	899	39.9
15	20.9	46.65	-10.0	-8.8	17.29	894	43.7	-8.8	17.29	894	43.7
17	12.3	75.84	-30.0	-13.6	28.57	889	49.4	-13.6	28.57	889	49.4
19	11.7	105.04	-45.0	-16.2	35.89	895	54.0	-16.2	35.89	895	54.0
21	1.7	134.24	-40.0	-19.3	45.51	900	60.7*	-19.3	45.51	900	60.7*
23	2.6	163.44	-45.0	-23.4	60.73	907	72.3*	-23.4	60.73	907	72.3*
			-47.4	-28.6	82.74	912	90.0*	-28.6	82.74	912	90.0*

EQUATOR S-N		SATELLITE 1960 IOTA 1 FOR OTHER LATITUDES									
TIME (UT)	LONG. (W)	LAT.	TIME CORR.	SOUTH-NORTH LONG. CORR. (MI)	HT. (MI)	BEAR. (N-E)	TIME CORR.	NORTH-SOUTH LONG. CORR. (MI)	HT. (MI)	BEAR. (N-E)	
APRIL 11, 1963											
0 58.0	192.82	47.4	28.8	-82.69	939	90.0*	28.8	-82.71	939	90.0*	
2 53.4	222.01	45.0	23.6	-60.69	932	72.3*	23.6	-60.72	932	72.3*	
4 48.8	251.20	40.0	19.4	-45.48	925	60.7*	19.4	-45.49	925	60.7*	
6 44.2	280.40	35.0	16.3	-35.88	920	54.0	16.3	-35.89	920	54.0	
8 39.6	309.59	30.0	13.6	-28.56	915	49.4	13.6	-28.57	915	49.4	
10 35.1	338.79	20.0	8.8	-17.29	908	43.7	8.8	-17.29	908	43.7	
12 30.5	17.98	0.	0.	0.	898	39.9	0.	0.	898	39.9	
14 25.9	47.17	-10.0	-8.8	17.29	896	43.7	-8.8	17.29	896	43.7	
16 21.3	76.37	-30.0	-13.6	28.57	899	49.4	-13.6	28.57	899	49.4	
18 16.7	105.56	-45.0	-16.2	35.89	901	54.0*	-16.2	35.90	901	54.0*	
20 12.1	134.76	-40.0	-19.3	45.51	903	60.7*	-19.3	45.51	903	60.7*	
22 7.6	163.95	-45.0	-23.4	60.73	908	72.3*	-23.4	60.73	908	72.3*	
		-47.4	-28.6	82.74	914	90.0*	-28.6	82.74	914	90.0*	

APRIL 12, 1963											
0	3.0	183.14	47.4	28.8	-82.69	947	90.0*	28.8	-82.74	947	90.0*
1	58.4	212.34	45.0	23.6	-60.70	930	72.3*	23.6	-60.73	930	72.3*
2	53.8	241.53	40.0	19.4	-45.49	923	60.7	19.4	-45.50	923	60.7
3	49.2	270.72	35.0	16.3	-35.89	918	54.0	16.3	-35.90	918	54.0
4	44.6	299.92	30.0	13.6	-28.56	913	49.4	13.6	-28.57	913	49.4
5	40.0	329.11	20.0	8.8	-17.29	906	43.7	8.8	-17.29	906	43.7
6	35.5	358.31	0.	0.	0.	897	39.9	0.	0.	897	39.9
7	30.9	387.50	-10.0	-8.8	17.29	896	43.7	-8.8	17.29	896	43.7
8	26.3	416.69	-30.0	-13.6	28.57	899	49.4	-13.6	28.57	899	49.4
9	21.7	445.88	-45.0	-16.2	35.89	901	54.0*	-16.2	35.90	901	54.0*
10	17.1	475.08	-40.0	-19.3	45.51	904	60.7*	-19.3	45.51	904	60.7*
11	12.5	504.27	-45.0	-23.4	60.73	909	72.3*	-23.4	60.73	909	72.3*
12	7.9	533.47	-47.4	-28.6	82.74	915	90.0*	-28.6	82.74	915	90.0*

APRIL 12, 1963											
1	3.4	202.66	47.4	28.8	-82.70	935	90.0*	28.8	-82.74	935	90.0*
2	58.8	231.85	45.0	23.5	-60.70	928	72.3*	23.5	-60.73	928	72.3*
4	54.2	261.05	40.0	19.4	-45.49	921	60.7	19.4	-45.50	921	60.7
6	49.6	290.24	35.0	16.3	-35.89	916	54.0	16.3	-35.90	916	54.0
8	45.0	319.43	30.0	13.6	-28.57	912	49.4	13.6	-28.57	912	49.4
10	40.4	348.63	20.0	8.8	-17.29	905	43.7	8.8	-17.29	905	43.7
12	35.8	17.82	0.	0.	0.	896	39.9	0.	0.	896	39.9
14	31.3	47.02	-10.0	-8.8	17.29	896	43.7	-8.8	17.29	896	43.7
16	26.7	76.21	-30.0	-13.6	28.58	900	49.4	-13.6	28.58	900	49.4
18	22.1	105.40	-45.0	-16.2	35.90	902	54.0*	-16.2	35.90	902	54.0*
20	17.5	134.60	-40.0	-19.3	45.51	906	60.7*	-19.3	45.51	906	60.7*
22	12.9	163.79	-45.0	-23.4	60.73	911	72.3*	-23.4	60.73	911	72.3*
			-47.4	-28.6	82.73	917	90.0*	-28.6	82.73	917	90.0*

ADDITIONAL ORBITAL ELEMENTS FOR EARTH SATELLITE 1960 IOTA 1

REFERENCE TIME 1963 JAN 30 0 1 52.52 M UT
 INCLINATION 47.25 DEG.
 ASCENDING NODE LONG. 155.70 DEG. WEST
 PERIODE SWEEP INTERVAL ONE DAY -18.77 MIN.
 ARGUMENT OF PERIODE 271.97 DEG.
 RATE OF CHANGE 0.4855 DEG. PER PERIOD
 ANOMALISTIC PERIODE 115.545 MIN.
 RATE OF CHANGE -0.00005 MIN. PER PERIOD
 SEMI-MAJOR AXIS 4900 KM
 RADIUS OF EARTH 6378 KM
 RADIUS OF SPHERE 4900 KM
 RATE OF CHANGE -0.00005 KM PER DAY
 ASCENDING NODE LONG. 155.70 DEG.
 RATE OF CHANGE -0.25000 DEG. PER DAY
 LATITUDE OF PERIODE -47.21 DEG.