PROJECT 10073 RECORD CARD

1. DATE 30 July 1951	**2. LOCATION** Selfridge AFB, Mich	**12. CONCLUSIONS** ☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon ☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft ☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical ☒ Other Anomalous Pro/ Pagation ☐ Insufficient Data for Evaluation ☐ Unknown
3. DATE-TIME GROUP Local Bet 1114Z & 1132Z GMT 1114Z	**4. TYPE OF OBSERVATION** ☐ Ground-Visual ☒ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar	
5. PHOTOS ☐ Yes ☒ No	**6. SOURCE** Radar Observers	
7. LENGTH OF OBSERVATION 18 minutes	**8. NUMBER OF OBJECTS** 1	**9. COURSE**

10. BRIEF SUMMARY OF SIGHTING

Speed of the blip varied from an estimated 3,000 to estimated 28,000 mi per houd . High scatter clouds. Observatories rept no observed meteors or similar activity at the time. Technical representatives conclude that a certain set of electronic and atmosheric conditions probably caused sighting.

11. COMMENTS

Evaluated as Anomalous Propagation.

ATIC FORM 329 (REV 26 SEP 52)

AF FORM 112—PART I
APPROVED 1 JUNE 1948

UNCLASSIFIED
(CLASSIFICATION)

Classified 10-4
Auth: CO, 30th AirDiv
3 Aug 51; Initials

COUNTRY	REPORT NO.	(LEAVE BLANK)
U. S. A.	RIUA 1-51 30AD	

AIR INTELLIGENCE INFORMATION REPORT

SUBJECT
Information on Unconventional Aircraft

AREA REPORTED ON	FROM (Agency)
Wisconsin- Illinois	30th Air Division (Def) Selfridge AFB, Mich.

DATE OF REPORT	DATE OF INFORMATION	EVALUATION
3 August 1951	30 July 1951	R-3

PREPARED BY (Officer)	SOURCE
1st Lt., Robert K. Hall, Dir of Intell	30th Air Division personnel

REFERENCES (Control number, directive, previous report, etc., as applicable)
ADC LETTER 200-1

SUMMARY: (Enter concise summary of report. Give significance in final one-sentence paragraph. List inclosures at lower left. Begin text of report on AF Form 112—Part II.)

1. An unconventional unidentified "object" was observed on the scopes of an AN/CPS-6B radar by obeservers at the 752d AC&W Squadron, Empire, Mich., between 1114Z and 1132Z, 30 July 1951. Speed of the blip varied from an estimated 3,000 miles an hour to ~~an~~ estimated 28,000 miles an hour. High scattered clouds were reported in the vicinity. Observatories reported no observed meteors or similar activity at the time.

2. Study of the phenomenon by technical representatives indicates that a certain set of electronic and atmospheric conditions probably existed at the time, and that the scope presentation was probably caused by interference from another radar station located at Elkhorn, Wisconsin.

Robert K. Hall
ROBERT K. HALL
1st Lt., USAF
Director of Intelligence

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AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	
30th Air Division (Defense) Selfridge AFB, Mich.	RIUA 1-51 30 AD	PAGE 2 OF 3 PAGES

1. An unconventional unidentified "object" was observed electronically by radar observers at the 752d AC&W Squadron, Empire, Mich., between 1114Z and 1132Z, 30 July 51.

2. One officer and four airmen radar operators, with technical experience varying from two to nine months, saw an oblong shaped blip with the conventional tail caused ordinarily by the tapering off of target signal strength.

3. Speed of the blip varied from an estimated 3,000 miles an hour to an estimated 28,000 miles an hour.

4. Blip was first detected at 1114Z on an approximate azimuth of 215° from the station at a distance of approximately 130 statute miles. This position is about 30 miles northeast of Milwaukee at 43° 20' N, 87° 31' W. It was tracked on a heading of approximately 210 degrees for two minutes and faded 115 miles to the southwest at 42° 01' N, 88° 50' W. During this interval the speed varied considerably. At 1128Z the same or a similar object was detected at 42° 30' N, 88° 50' W, fading immediately. At 1132Z object was detected at 42° 01' N, 89° 20' W, fading immediately.

5. The "object" was observed by a radar type AN/CPS-6B. Excessive speed precluded use of height indicator to make useable altitude estimates.

6. Weather teletype sequence at Chicago at 1030Z was VFR UNL ⦶ 250 3F 60/59 W8 005. At 1230Z it was IFR 250 ⦶ 1½ K 66/64 C 007/.

7. Conversation with University of Michigan Observatory at Ann Arbor, Mich., and Yerkes Observatory at Geneva, Wis., indicated no unusual meteoritic activity.

8. Comments:

a. The tremendous speed of the "object" within the earth's atmosphere tends to rule out the possibility of the object's being a flying device because of atmospheric friction and resultant high temperatures.

b. Absence of observed unusual meteoritic activity tends to rule out possibility of a meteor having caused the electronic return.

c. Study of this phenomenon by technical representatives at this headquarters and at 752d AC&W Squadron concluded that very probably the occurrance was actuated by virtue of certain electronic and atmospheric conditions; and that these conditions, occurring simultaneously, resulted in reception by the radar station at Empire of electronic pulses from a radar station at Elkhorn, Wis. (This station is situated on an approximate azimuth of 220 degrees from Empire at a distance of 195 statute miles. Equipment is the same as at Empire: AN/CPS-6B.) One technical explanation of this occurrance is as follows:

(1) Because of the azimuth at which the targets were noticed, it would seem most logical to suspect interference between the two sites.

(2) Possible conditions extant to support mutual interference theory were:

(a) Anomalous propagation to an extent where Empire could receive the radar transmitter at Elkhorn. This is borne out by reports from the station at Empire, and the Advance Radio Propagation Forecasts from the National Bureau of Standards, Washington, D.C., issued 24 July 1951.

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AIR INTELLIGENCE INFORMATION REPORT

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(b) A transmitter at Elkhorn operating at the same frequency as a receiver at Empire. This is highly possible due to five different transmitters and receivers at each site capable of being tuned to same frequencies, and mutual interference is previously on record.

(c) The Pulse Repetition Frequency of the two radar sets at almost the same rate. (Elkhorn slightly faster.) This is probable because of identical sets with design purpose of having each set at the same Pulse Repetition Frequency.

(d) The two antennas rotating at only slightly different turning rates. This is probable because speed of rotation is adjustable at each site with a common practice of rotating at approximately six revolutions a minute.

d. The above conditions, if existing, will give a scope presentation as described by the site at Empire.

e. Detailed technical information to support the conclusion drawn above is available at this headquarters if required.

ROBERT K. HALL
1st Lt., USAF
Director of Intelligence

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AUGUST - SEPTEMBER 1951 SIGHTINGS

DATE	LOCATION	OBSERVER	EVALUATION
August			
Aug	Kingsville, Texas CASE MISSING	[redacted]	Insufficient Data
5	Herkimer, New York	[redacted]	Astro (METEOR)
8	Cleveland, Ohio	[redacted]	A/C
11	Birmingham, Alabama	Multiple	Astro (METEORS)
12	Corong, New Mexico (CASE MISSING)	Military	Astro (METEOR)
12	Indianapolis, Indiana	Multiple	Balloon
14	Rhein Main AB, Germany	Military Air	Insufficient Data
19	Alexandria, Virginia	[redacted]	A/C
20	Spokane, Washington	Not reported	Balloon
25	Lubbock, Texas (FOLDER)	Multiple (PHOTO)	Other (PIPPS)
25	Albuquerque, New Mexico (FOLDER)	Military	UNIDENTIFIED
26	Ellington AFB, Texas	Military	Balloon
26	Ellington AFB, Texas	Multiple	Insufficient Data
26	Larson AFB, Washington	Military (RADAR)	Other (ELECTRONIC INTERFERENCE)
26	San Antonio, Texas	[redacted]	Astro (METEOR)
27	Vandalia, Illinois	[redacted]	Insufficient Data
29	Grenier AFB, New Hampshire	Military	Insufficient Data
31	Matador, Texas	[redacted]	UNIDENTIFIED
Aug	Gonzales, Texas (INFO ONLY)	[redacted]	A/C
September			
1-3	Spokane, Washington (NO CASE)	Military	Insufficient Data
6	Claremont, California	Military	UNIDENTIFIED
6	Hollywood, California	[redacted]	Other (PSYCHOLOGICAL)
8	Andrews AFB, Washington D.C.	Military	Astro (METEOR)
10	Sandy Hook, New Jersey (FOLDER)	CASE MISSING	Military Airballoon
10-11	Fort Monmouth, New Jersey (FOLDER)	Military (RADAR)	1. Balloon 2. Anomalous Propagati
12	Cincinnati, Ohio	[redacted]	Astro (METEOR)
13	Goose AFB, Labrador	Ground Radar	UNIDENTIFIED
16	Marion, Ohio	[redacted]	A/C
17	Tatum, New Mexico (NO CASE)	Civilian	Insufficient Data
17-19	65.40N 71.40W	Military (VIS/RAD)	A/C
18	Michigan - Wisconsin	Military (RADAR)	Other (PLOTTING)
20	Rovaniemi, Finland	Civilian	Astro (METEOR)
21	March AFB, California (FOLDER)	Military (Air)	Balloon
29	Orange, Virginia	[redacted]	Insufficient Data