

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 <u>Anomalous Propagation</u> ☐ Insufficient Data for Evaluation ☐ Unknown	
3. DATE-TIME GROUP Local <u>Bet 1114Z & 1132Z</u> GMT <u>1114Z</u>		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 hour. High scatter clouds. Observatories report no observed meteors or similar activity at the time. Technical representatives conclude that a certain set of electronic and atmospheric conditions probably caused sighting.				11. COMMENTS Evaluated as Anomalous Propagation.	

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(CLASSIFICATION)

Classified ~~SECRET~~ 10-4
Auth: CO, 30th Air Div
3 Aug 51; Initials: *[initials]*

COUNTRY U. S. A.	REPORT NO. RIUA 1-51 30AD	(LEAVE BLANK)
AIR INTELLIGENCE INFORMATION REPORT		
SUBJECT Information on Unconventional Aircraft		
AREA REPORTED ON Wisconsin- Illinois	FROM (Agency) 30th Air Division (Def) Selfridge AFB, Mich.	
DATE OF REPORT 3 August 1951	DATE OF INFORMATION 30 July 1951	EVALUATION R-3
PREPARED BY (Officer) 1st Lt., Robert K. Hall, Dir of Intell	SOURCE 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-paragraph. List inclusions 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 observers 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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AF FORM 112—PART II

APPROVED 1 APRIL 1948

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AIR INTELLIGENCE INFORMATION REPORT

FROM: 30th Air Division (Defense)
Selfridge AFB, Mich.

REPORT NO.
RIUA 1-51 30 AD

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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 $43^{\circ} 20' N$, $87^{\circ} 31' W$. It was tracked on a heading of approximately 210 degrees for two minutes and faded 115 miles to the southwest at $42^{\circ} 01' N$, $88^{\circ} 50' W$. During this interval the speed varied considerably. At 1128Z the same or a similar object was detected at $42^{\circ} 30' N$, $88^{\circ} 50' W$, fading immediately. At 1132Z object was detected at $42^{\circ} 01' N$, $89^{\circ} 20' W$, 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 $\odot$ 250 37 60/59 W8 005. At 1230Z it was IFR 250 $\odot$ 1 1/2 X 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 occurrence 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 occurrence 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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AF FORM 112—PART II
APPROVED 1 JUNE 1948

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AIR INTELLIGENCE INFORMATION REPORT

FROM: 112-1

30th Air Division (Defense)
Selfridge AFB, Mich.

REPORT NO.

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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 SIG. FILES

<u>DATE</u>	<u>LOCATION</u>	<u>OBSERVER</u>	<u>EVALUATION</u>
<u>August</u>			
Aug	Elvesta, Texas <i>CASE MISSING</i>	[REDACTED]	Insufficient Data
5	Herkimer, New York	[REDACTED]	Astro (METEOR)
6	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	Hubbock, Texas (FOLDER)	Multiple (PHOTO)	Other (PIRETS)
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
<u>September</u>			
4-5	Spokane, Washington (NO CASE)	Military	Insufficient Data
6	Claremont, California	Military	UNIDENTIFIED
6	Hollywood, California	[REDACTED]	Other (PSYCHOLOGICAL)
10	Andrews AFB, Washington D.C.	Military	Astro (METEOR)
10	Sandy Hook, New Jersey (FOLDER)	Military Air	Balloon
10-11	Port Monmouth, New Jersey (FOLDER)	Military (RADAR)	1. Balloon 2. Anomalous Propagati
12	Cincinnati, Ohio	[REDACTED]	Astro (METEOR)
13	Goose AFB, Labrador	Ground Radar	UNIDENTIFIED
14	Marion, Ohio	[REDACTED]	A/C
17	Tatum, New Mexico (CASE MISSING)	Civilian	Insufficient Data
17-19	65.40N 71.40W	Military (VIS/RAD)	A/C
18	Michigan - Wisconsin	Military (RADAR)	Other (DUSKING)
20	Pori, Finland	Civilian	Astro (METEOR)
21	March AFB, California (FOLDER)	Military (Air)	Balloon
23	Orange, Virginia	[REDACTED]	Insufficient Data