

PROJECT 10073 RECORD CARD

<b>1. DATE</b> 30 July 1951	<b>2. LOCATION</b> Selfridge AFB, Mich		<b>12. CONCLUSIONS</b> <input type="checkbox"/> Was Balloon <input type="checkbox"/> Probably Balloon <input type="checkbox"/> Possibly Balloon
<b>3. DATE-TIME GROUP</b> Local <u>Bet 1114Z &amp; 1132Z</u> GMT <u>1114Z</u>	<b>4. TYPE OF OBSERVATION</b> <input type="checkbox"/> Ground-Visual <input checked="" type="checkbox"/> Ground-Radar <input type="checkbox"/> Air-Visual <input type="checkbox"/> Air-Intercept Radar		<input type="checkbox"/> Was Aircraft <input type="checkbox"/> Probably Aircraft <input type="checkbox"/> Possibly Aircraft
<b>5. PHOTOS</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>6. SOURCE</b> Radar Observers		<input type="checkbox"/> Was Astronomical <input type="checkbox"/> Probably Astronomical <input type="checkbox"/> Possibly Astronomical Propagation
<b>7. LENGTH OF OBSERVATION</b> 18 minutes	<b>8. NUMBER OF OBJECTS</b> 1	<b>9. COURSE</b>	<input checked="" type="checkbox"/> Other <u>Anomalous Prop/</u> <input type="checkbox"/> Insufficient Data for Evaluation <input type="checkbox"/> Unknown
<b>10. BRIEF SUMMARY OF SIGHTING</b> 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.		<b>11. COMMENTS</b> 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)
<b>AIR INTELLIGENCE INFORMATION REPORT</b>		
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-sentence 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 A&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 OCT 1948

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AIR INTELLIGENCE INFORMATION REPORT

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° 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 37 60/59 W8 005. At 1230Z it was IFR 250 @ 1 1/2 X 65/64 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 230 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 MAR 1948

# 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 SUMMARY

<u>DATE</u>	<u>LOCATION</u>	<u>OBSERVER</u>	<u>EVALUATION</u>
<u>August</u>			
Aug 1	Evovota, Texas <i>CASE MISSING</i>	[REDACTED]	Insufficient Data
3	Herkimer, New York	[REDACTED]	Astro (METEOR)
5	Cleveland, Ohio	[REDACTED]	A/C
11	Birmingham, Alabama	Multiple	Astro (METEORS)
12	Corong, New Mexico (CASE MISSING)	Military	Astro (METEOR)
19	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	ubbock, Texas (FOLGER)	Multiple (PHOTO)	Other (METEOR)
27	Albuquerque, New Mexico (FOLGER)	Military	UNIDENTIFIED
28	ELLington AFB, Texas	Military	Balloon
28	ELLington AFB, Texas	Multiple	Insufficient Data
28	Larson AFB, Washington	Military (RADAR)	Other (ELECTRONIC INTERFERENCE)
28	San Antonio, Texas	[REDACTED]	Astro (METEOR)
27	Vandalia, Illinois	[REDACTED]	Insufficient Data
29	Greiner AFB, New Hampshire	Military	Insufficient Data
31	Matador, Texas	[REDACTED]	UNIDENTIFIED
31	Gonzales, Texas (INFO ONLY)	[REDACTED]	A/C
<u>September</u>			
1-3	Spokane, Washington (NO CASE)	Military	Insufficient Data
5	Claremont, California	Military	UNIDENTIFIED
5	Hollywood, California	[REDACTED]	Other (PSYCHOLOGICAL)
5	Andrews AFB, Washington D.C.	Military	Astro (METEOR)
10	Sandy Hook, New Jersey (ILLUSION)	Military	Balloon
10-11	Rock Monmouth, New Jersey (FOLGER)	Military (RADAR)	1. Balloon 2. Anomalous Propagation
12	Cincinnati, Ohio	[REDACTED]	Astro (METEOR)
17	Goose AFB, Labrador	Group Report	UNIDENTIFIED
18	Marion, Ohio	[REDACTED]	A/C
18	Tatum, New Mexico (NO CASE)	Civilian	Insufficient Data
18-19	65.40N 71.40E	Military (VIS/RAD)	A/C
18	Michigan - Wisconsin	Military (RADAR)	Other (MISSING)
18	Fort, Finland	Civilian	Astro (METEOR)
18	March AFB, California (FOLGER)	Military (Air)	Balloon
18	Orange, Virginia	[REDACTED]	Insufficient Data