

PROJECT 1073 RECORD CARD

1. DATE 29 Jul 52	2. LOCATION OSCEOLA, WISCONSIN	11. CONCLUSIONS <input type="checkbox"/> Yes Ballons <input type="checkbox"/> Probably Ballons <input type="checkbox"/> Possibly Ballons
3. DATE-TIME GROUP Local 29/0130 GMT	4. TYPE OF OBSERVATION <input type="checkbox"/> Ground-Visual <input checked="" type="checkbox"/> Ground-Radar <input checked="" type="checkbox"/> Air-Visual <input type="checkbox"/> Interceptor Radar	<input type="checkbox"/> Yes Aircraft <input type="checkbox"/> Probably Aircraft <input type="checkbox"/> Possibly Aircraft
5. PHOTOS <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. SOURCE varied	<input type="checkbox"/> Yes Astronomical <input type="checkbox"/> Probably Astronomical <input type="checkbox"/> Possibly Astronomical
7. LENGTH OF OBSERVATION One hour	8. NUMBER OF OBJECTS Numerous	9. COURSE <input type="checkbox"/> Other <input type="checkbox"/> Insufficient Data for other <input checked="" type="checkbox"/> Unknown
10. BRIEF SUMMARY OF SIGHTING  Numerous objects were observed on radar scope over a period of one hour traveling at varied speeds. An F-51 a/c was scrambled to the air for the purpose of observing objects. Objects were observed from 25,000 ft at an estimated altitude of 125,000 ft.  See Also: Film 7-7143-348 See following accession		11. COMMENTS  1. Scope photos have been observed by electronic expert.  2. SEE IASB FILE FOR LATER INFORMATION

ACTION

*1. ATIAA*

OPERATIONAL IMMEDIATE

*2. ATIA*

*3. C. Files*

RD295

WPE883

YMX112

JEDKF 039

OPOP JEDEN JEDWP JEPHQ 333

DE JEDKF 007

OP 301530Z ZNJ

FM CO 674TH AC&W SQ OSCEOLA WIS

TO JEPHQ/D/I INT HQ USAF WASHINGTON DC

JEDWP/CO ATIC WRIGHT PATTERSON AFB OHIO ATIAA-2C

JEDEN/CG ADC ENT AFB COLO

NLI/CG CADF KSC MO

OVJ/CG 31ST ADIV FT SNELLING MINN

~~████████████████████~~ 674-30-G-21. FLYORBT OBJECTS GROUND ELECTRONIC

MEANS 290130S. SIZE UNDETERMINED. SIZE OF BLIP VARIED. TOP SPEED 600 MPH

REPORT AND COMPUTATIONS SUBMITTED BY OFFICER CONTROLLERS ON DUTY. A/C

SCRAMBLED FROM 109TH FTR INTERCEPTOR SQUADRON. TARGETS APPEARED IN

GENERAL AREA SURROUNDING ST PAUL-MINNEAPOLIS. WEATHER CAVU.

30/1530Z JUL 7VK

ACTION INFOR. AGO 1 INFOR.  
JUL 30 PM 1:54

*Cy 1.*

From (Agency) 674th AC&W Sq, Osceola, Wis. Report No. 3-52 Page 2 of 2 Pages

5. IDENTIFYING INFORMATION OF OBSERVERS:

[REDACTED]	1st Lt, USAF	AFSG 1635	6 Yrs. Experience
[REDACTED]	1st Lt, USAF	AFSG 1631	3 Mos. Experience

6. WEATHER AT TIME OF SIGHTING: Weather at sighting station was CAVU. Weather in area of sightings was CAVU as reported by pilot. There was no lightning reported. Winds aloft were unknown.

7. CONDITIONS ACCOUNTING FOR SIGHTING: Nothing that has not been stated.

8. EXISTENCE OF EVIDENCE:

a. Photographs of radar scope showing size, number and movement of targets. Photographs are in two (2) inclosures.

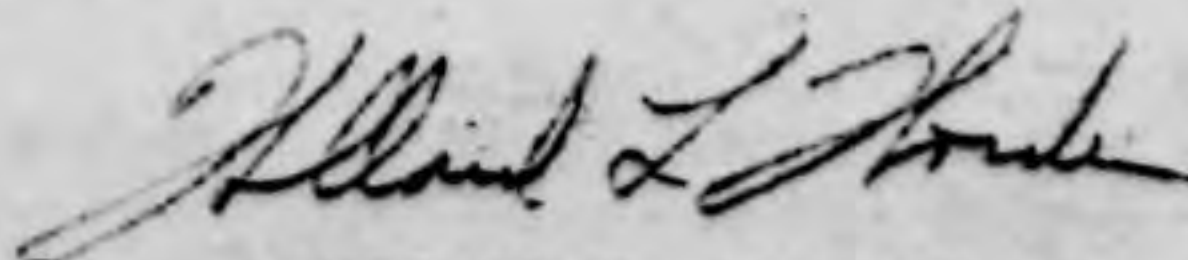
- (1) Inclosure #1, this report, is a series of eight (8) photographs, times as indicated on photographs, showing eight (8) individual views of sighting in form of well defined target as it progressed across radar scope. Each photograph is a point of Incl #1, this report, and has appropriate annotations on reverse side.
- (2) Inclosure #2, this report, is a series of three (3) photographs, times as indicated on photographs, showing three (3) individual views of sighting in form of multiple target as they appeared on radar scope. Each photograph is a point of Incl #2, this report, and has appropriate annotations on reverse side.

b. Signed narrative statements of observers. Statement is one (1) inclosure.

- (1) Inclosure #3, this report, is one (1) signed narrative statement by observers of unidentified flying objects. Statement has appropriate annotations on reverse side.

9. INTERCEPTION OR IDENTIFICATION ACTION TAKEN: One (1) F-51 type Aircraft was sent to sighting area by the 674th AC&W Sq., controller for purpose of intercepting and/or identifying unknown targets. This aircraft was from the 109th Ftr.-Interceptor Sq., Mpls-Chamberlain Fld., Minneapolis, Minn. Pilot did report visually sighting unidentified flying objects but interception and/or identification was not possible. This action occurred between 290130S and 290253S.

10. LOCATION OF AIR TRAFFIC: One (1) F-51 type aircraft was in an area fifty (50) to seventy (70) nautical miles south and south southeast of 45/15N-92/38/5.4W between the altitudes of 6000 to 10000 feet during the sighting period.



WILLARD L. WORDEN  
Lt Col, USAF  
Commanding

AIR INTELLIGENCE INFORMATION REPORT

From (Agency)  
674th AC&W Sq., Osceola, Wis.

Report No. 3-52

Page 1 of 2 Pages

1. DESCRIPTION OF OBJECTS: Numerous unidentified flying objects of undetermined size or shape were sighted by ground electronic means in the early morning of 29 July 1952 by members of the 674th AC&W Sq., Osceola, Wisconsin, who were on duty. Size of the blips which constituted the sightings were normal with the exception of one (1) large well defined target (Reference is made to Incl #1, this report), speed of this target was 600 knots as computed on the radar scope set on the fifty (50) nautical mile range. The remainder of the sightings were individual sightings having multiple targets, up to ten (10), appearing in a loose cluster on the radar scope (Reference is made to Incl #2, this report), speed of these targets was fifty (50) to sixty (60) knots as computed on the radar scope set on the fifty (50) nautical mile range. The only possible formation noted during the entire sighting period was during one (1) or two (2) of the sightings which consisted of multiple targets when two (2) or three (3) of these targets might possibly have been moving in a loose formation. All targets suddenly appeared on the radar scope and after having traveled between thirty (30) and seventy (70) nautical miles would just as suddenly disappear. Targets did not appear on the height indicator due to anonymous propagation. Targets followed a general pattern of appearing on the radar scope southwest of the sighting station and proceeding easterly until disappearing. There was a continual overlapping of patterns on the radar scope; a new pattern would have appeared before the old pattern would have disappeared. In the sightings which consisted of multiple targets (Reference is made to Incl #2, this report), with the exception of possible formation movement (no applicable enclosure) targets progressed across the radar scope, until disappearing, independently of each other in regard to track and heading with some targets making a turning course. There was some correlation between these electronic sightings and visual sightings made by a pilot of the 109th Ftr-Interceptor Sq., Wild-Chamberlain Fld., Minneapolis, Minn., who was scrambled by the 674th AC&W Sq. controller in conjunction with the radar sightings. This correlation placed both types of sightings in the same area at the same time. Pilot estimated height of objects he visually saw at 125,000 feet. Sighting station was specifically searching for possible unidentifiable flying objects at time of first sighting due to a Ground Observers Corps report of visual sighting of unidentified flying objects.

2. TIME OF SIGHTINGS: Sightings occurred between 290130S and 290230S lasting one (1) hour.

3. MANNER OF SIGHTINGS: Sightings covered by this report were made by ground electronic equipment. Type of equipment—AN/CPS-6B; Frequency—2725Mc to 3005Mc; PRF—600PPS; Antenna tilt—For sighting in which target was well defined blip (Reference is made to Incl #1, this report) antenna tilt was nine (9) degrees. For other sightings (Reference is made to Incl #2, this report) antenna tilt was five (5) degrees. All meter readings were normal and equipment was functioning properly.

4. LOCATION: Location of sighting station is 45/15N-92/38/5.W. Targets would appear on the radar scope in a general area twenty (20) to thirty (30) nautical miles southwest to south of sighting station and after traveling southeast would disappear from the radar scope in a general area thirty (30) nautical miles southeast of sighting station (Reference is made to Incl #1 & #2, this report).

**SECURITY INFORMATION**

AF FORM 112—PART I  
approved 1 June 1948

CLASSIFIED BY: [redacted]  
DATE: [redacted]  
BY: [redacted]

Country	[redacted]	(Leave Blank)
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AIR INTELLIGENCE INFORMATION REPORT

Subject	VIORBE	
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Area Reported On	Area surrounding the location of the 674th ACGW Squadron, Onawa, Wis.	From (Agency)	674th ACGW Sqr.
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Date of Report	Date of Information	Evaluation
1 Aug 1952	25 July 1952	

Prepared by (Officer)	Source
WILLARD L. WOODEN, Lt. Col., USAF	Members of 674th ACGW Sqr.

References (Control number, directive, previous report, etc., as applicable)
AFI 200-5 and 26 April 1952

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.)

During normal operations in the early morning of 25 July 1952 numerous unidentified flying objects were sighted on the radar indicators of this unit. In the early morning of 25 July 1952 numerous unidentified moving lights were observed in the sky visually by members of this organization. Information relative to these unusual sightings is contained in this report.

The significance of this report lies in the fact that some of these sightings are Electronic Sightings and that all sightings were made and recorded by competent personnel.

*Willard L. Moore*  
WILLARD L. MOORE  
Lt. Col. USAF  
Commanding

3 Incls.

1. Series of six(6) Radar Scope Photographs.
2. Series of seven(7) Radar Scope Photographs.
3. (5) observers narrative statements.

AF FORM 112—PART II  
 APPROVED 1 June 1948

PROHIBITED FROM  
 DISSEMINATION  
 EXCEPT BY AUTHORITY  
 OF THE AIR FORCE

AIR INTELLIGENCE INFORMATION REPORT

From (Agency)	Report No.	Page 1 of 1 Pages
674th ACMW Sq., Council Bluffs, Mo.	252	

1. DESCRIPTION OF OBSERVATION

a. **ELECTRONIC SIGHTINGS:** Numerous unidentified flying objects of undetermined size or shape were sighted by Ground Electronic means in the early morning of 25 July 1952 by members of the 674th ACMW Squadron, Council Bluffs, Missouri, who were then on duty. Most of the blips which constituted the sightings were normal with the exception of some sightings which appeared as an arc (Reference is made to line #2 this report). Arcs would appear and fade on the Radar Scope as a complete unit not one part of the arc appearing and fading before another part. There was no indication of any organized formation noted during sightings. Speeds varied between 14,400 and 20,000 knots as computed on the Radar Scope set on the 200 nautical mile range. Targets either disappeared on reaching the extreme range of the equipment or, after being painted once or twice, failed to reappear. Altitude of targets could not be computed because of their speed. Targets appearing on the Radar Scope followed a general pattern of a clockwise cycle, running south east then westerly, and finally north easterly. One (1) cycle would take approximately two (2) minutes and forty-five (45) seconds for completion. There was an average delay of one (1) minute between cycles. This procedure was repeated over and over again during the entire sighting period. Toward the end of the sightings it was extremely difficult to pick out any one (1) cycle due to the heavy sporadic sightings in the northern half of the Radar Scope and the lessening of the defined sightings in the southern half of the Radar Scope. There was some correlation between these Electronic Sightings and visual sightings made by pilots of the 109th Ftr. Sq., Wold-Chamberlain Fld., Minneapolis, Minn., who were scrambled by the 674th ACMW Sq., in conjunction with the Radar Sightings. This correlation placed both types of sightings in the same area at the same time.

b. VISUAL SIGHTINGS: Numerous unidentified moving lights were visually observed in the early morning of 25 July 1952 by members of the 674th ACGW Sq., Osceola, Wisconsin, who were then on duty. The lights observed were very short yellowish flashes, each flash lasting approximately one(1) second with three(3) to six(6) seconds elapsing between flashes. The flashes moved very rapidly across the sky. One(1) sighting was of two(2) simultaneous flashes in parallel movement which was the only indication of any possible formation noted. Size and speed were not determined due to lack of comparison with known objects. Lights progressed from the eastern horizon to the western horizon south of the site of the 674th ACGW Sq., at what was judged to be twenty(20) degrees above the horizon.

2. TIME OF SIGHTINGS:

a. ELECTRONIC SIGHTINGS: Sightings occurred between 250122Z and 250245Z lasting one(1) hour and twenty-three(23) minutes.

b. VISUAL SIGHTINGS: All visual sightings covered by this report occurred between 250130Z and 250200Z lasting thirty(30) minutes.

3. MANNER OF SIGHTINGS:

a. ELECTRONIC SIGHTINGS: Sightings were made by Ground Electronic Equipment.

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(Classification)  
SECURITY INFORMATION



SECURITY INFORMATION

~~SECRET~~

AF FORM 112—PART II  
APPROVED 1 JUNE 1943

AFM STANDARDIZATION INFORMATION REPORT

From (Agency)	Report No.	2	3
674th ACGM Sq., Osceola, Wis	2-52	Page	of Pages

Type of equipment—AN/CPS-6B; Operating F frequency—2965 Mcs to 2980 Mcs; PRF—300 FPS; Antenna RFL—6; MY—Nil; Antenna Tilt—Two(2) Point Five(5) degrees; Antenna Slant—eight(8) degrees. All meter reading were normal and equipment was functioning properly.

b. VISUAL SIGHTINGS: All visual sightings, covered by this report, were made from the ground by naked eye.

4. LOCATION:

a. ELECTRONIC SIGHTINGS: Location of sighting station is 45/15N-92/38/5.W. Targets would generally appear on the Radar Scope on the 130th azimuth approximately seventy(70) nautical miles out from sighting station and, remaining in the vicinity of this azimuth, would proceed at a great speed away from the sighting station until they went beyond the limit of the equipment. Almost immediately targets would appear in an unpredictable position roughly 100 nautical miles south of sighting station and proceed in a westerly direction at great speed until running beyond the limit of the equipment(Reference is made to Ins #1, this report). Again targets would immediately appear, this time north of sighting station and, following no particular pattern, would paint once or twice in an easterly direction and disappear.

d. VISUAL SIGHTINGS: All visual sightings, covered by this report, were made from the ground at 15/15N-92/38/5.W. Lights observed traveled from east to west an unknown distance south of this position. Lights were judged to be twenty (20) degrees above the horizon.

5. IDENTIFYING INFORMATION OF OBSERVERS:

a. ELECTRONIC SIGHTINGS:

Capt. USAF	AFSC 1635	14 Yrs. Experience
1st Lt. USAF	AFSC 1635	1 Yr. Experience

b. VISUAL SIGHTINGS:

Capt. USAF	[REDACTED]	1/20 USAF
1st Lt. USAF	[REDACTED]	1/25 USAF
A/1e USAF	[REDACTED]	1/20 USAF
A/1c USAF	[REDACTED]	

6. WEATHER AT TIME OF SIGHTINGS:

a. ELECTRONIC SIGHTINGS: Weather at sighting station was CAUV. Weather in area of sightings was CAUV as reported by pilots. There were strong lightning flashes far to the north during this entire period. Wind direction was unknown.

b. VISUAL SIGHTINGS: Same as above.

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SECURITY INFORMATION

AF FORM 112—PART II  
APPROVED 1 June 1948

AIR INTELLIGENCE INFORMATION REPORT

From (Agency)	Report No.	Page	of	Pages
6743d ACAN Sq., Caswell, Wisc.	2-52	3	3	Pages

7. CONTINUING ACCURACY FOR SIGHTINGS

- a. ELECTRONIC SIGHTINGS: Nothing that has not been stated.
- b. VISUAL SIGHTINGS: Nothing that has not been stated.

8. EXISTENCE OF EVIDENCE

- a. ELECTRONIC SIGHTINGS: Photographs of the Radar Scope showing size of blips and their movements. These photographs are in two (2) inclosures. Inc #1, this report, is a series of six (6) photographs, times as indicated on photographs, showing six (6) individual views of a target as it progressed across the Radar Scope. Each photograph is a point of Inc #1, and has appropriate annotations on the reverse side. Inc #2, this report, is a series of seven (7) photographs, times as indicated on photographs, showing seven (7) individual views of a target that is in the form of an arc as it progressed across the Radar Scope. Each photograph is a point of Inc #2, and has appropriate annotations on the reverse side.
- b. VISUAL SIGHTINGS: Signed narrative statements of observers. Statements are in one (1) inclosure. Inc #3, this report, is five (5) signed narrative statements of observers. Each statement is a point of Inc #3, and has appropriate annotations on the reverse side.

CASE #7

29 July 1952

Osceola, Wisconsin

Numerous unidentified flying objects of undetermined size or shape were sighted by ground electronic means between 0130S and 0230S (lasting 1 hour) on 29 July 1952 by members of a radar unit located near Osceola, Wisconsin, who were on duty. Size of the blips which constituted the sightings were normal with the exception of one large well-defined target, speed of this target was 600 knots as computed on the radar scope set on the fifty nautical mile range. The remainder of the sightings were individual sightings having multiple targets, up to ten, appearing in a loose cluster on the radar scope, speed of these targets was fifty to sixty knots as computed on the radar scope set on the fifty nautical mile range. The only possible formation noted during the entire sighting period was during one or two of the sightings which consisted of multiple targets when two or three of these targets might possibly have been moving in a loose formation. All targets suddenly appeared on the radar scope and after having traveled between thirty and seventy nautical miles would just as suddenly disappear. Targets did not appear on the height indicator due to anomalous propagation. Targets followed a general pattern of appearing on the radar scope SW of the sighting station and proceeding E until disappearing. There was a continual overlapping of patterns on the radar scope; a new pattern would have appeared before the old pattern would have disappeared. In the sightings which consisted of multiple targets, with the exception of possible formation movement, targets progressed across the radar scope, until disappearing, independently of each other in regard to track and heading with some targets making a turning course. There was some correlation between these electronic sightings and visual sightings made by a pilot who was scrambled in conjunction with the radar sightings. This correlation placed both types of sightings in the same area at the same time. Pilot estimated height of objects he visually saw at 125,000'. Sighting station was specifically searching for possible unidentifiable flying objects at time

a. ELECTRONIC SIGHTINGS: Two F-51 type A/C were sent to sighting area by the 674th AC&W Sq. controller for purpose of intercepting and/or identifying unknown targets. These A/C were from the 109th Ftr. Sq., Wold-Chamberlain Fld., Minneapolis, Minn.

b. VISUAL SIGHTINGS: None

10. LOCATION OF AIR TRAFFIC:

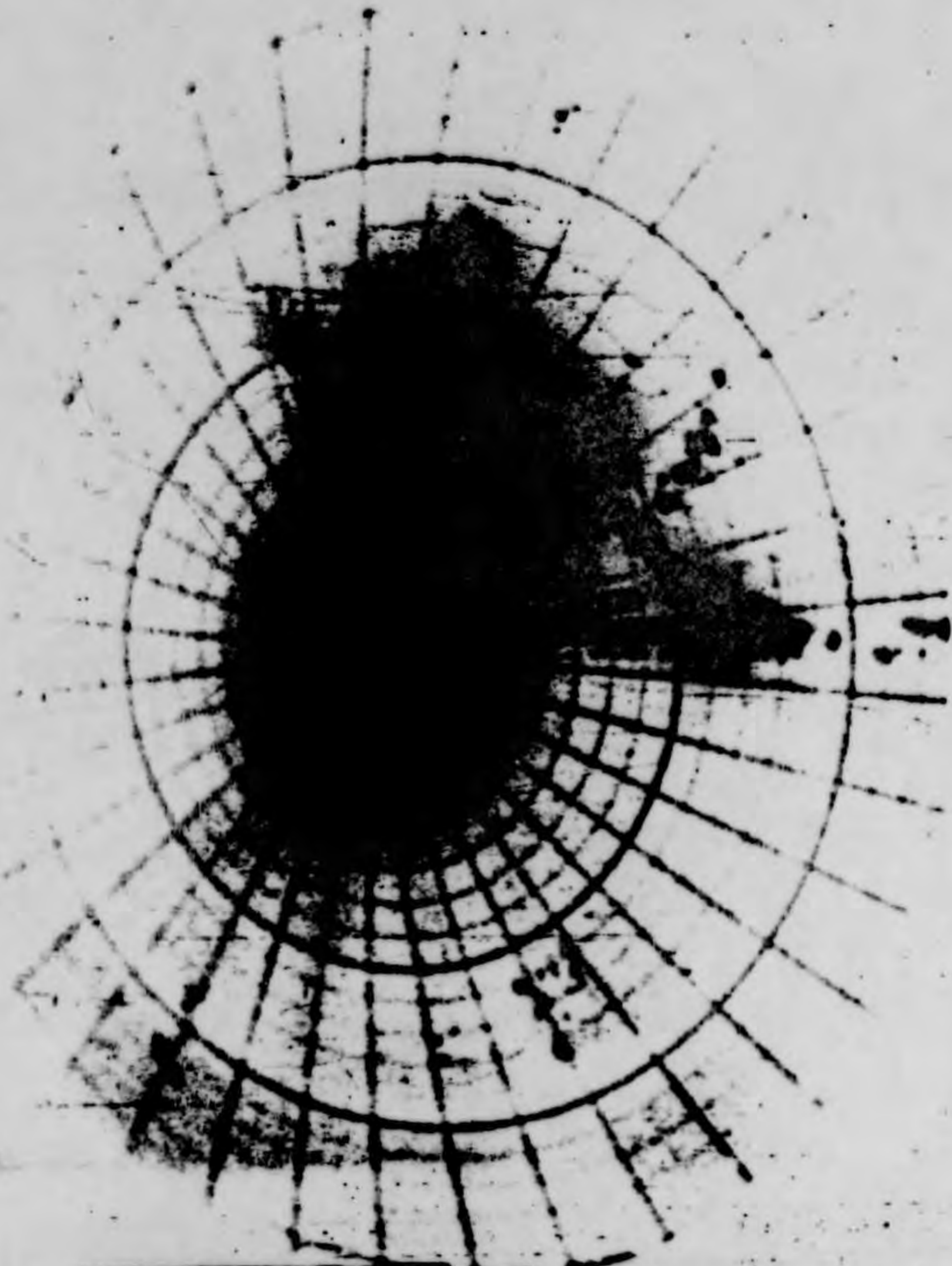
a. ELECTRONIC SIGHTINGS: Two(2) F-51 type A/C were in an area fifty(50) to seventy(70) nautical miles south and south south east of 45/15-92/38/5.4W between the altitudes of 6000 to 10000 feet during the sighting period.

b. VISUAL SIGHTINGS: Same as above.

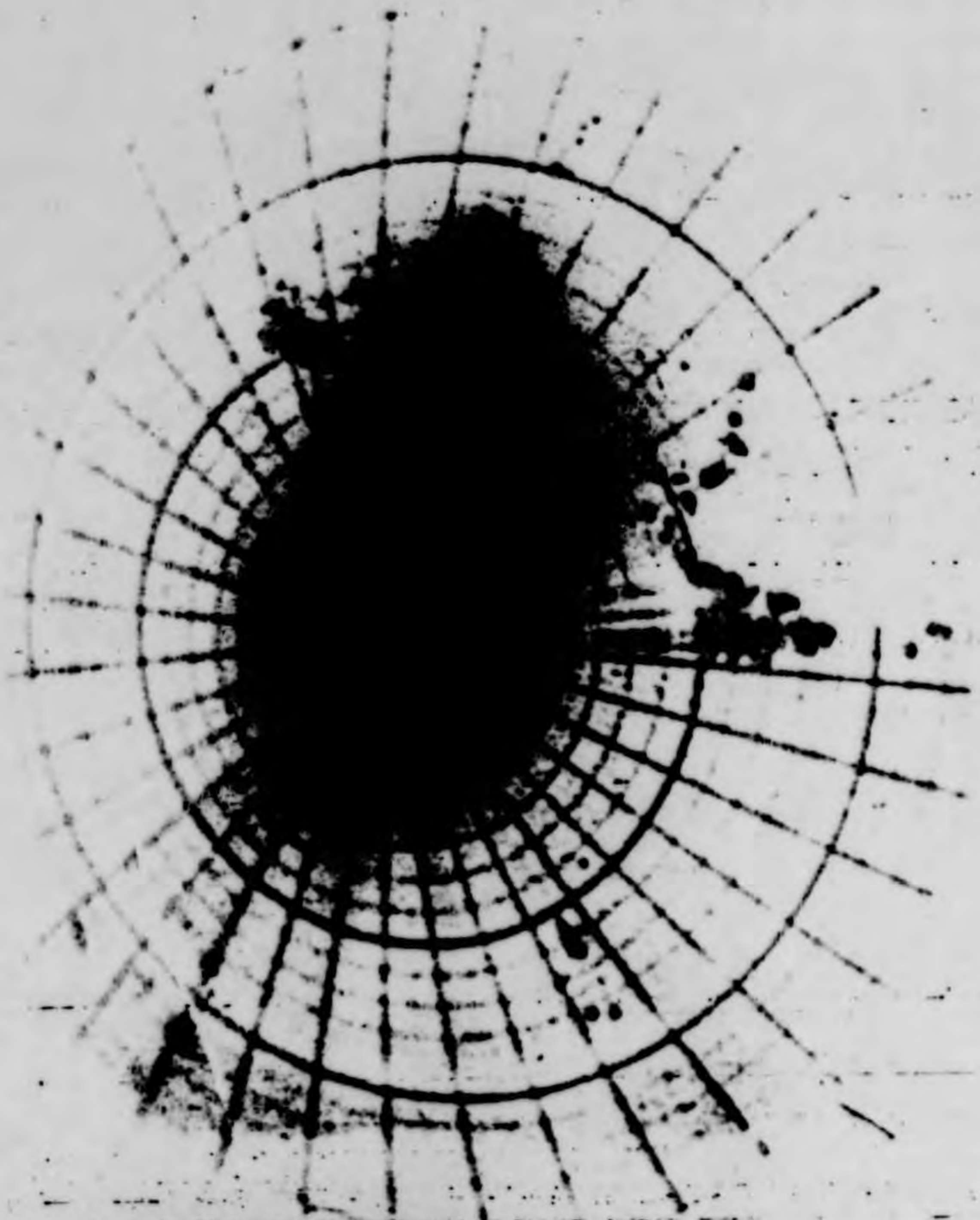
*Willard L. Worden*  
WILLARD L. WORDEN  
Lt. Col. USAF  
Commanding

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SECURITY INFORMATION



REPRODUCTION OF ORIGINAL



171



25 July 1952, Osceola, Wisconsin

Targets on photos marked Inclosure "Point #2" are considered to be due to interference from another radar set operating very near the same frequency, pulse repetition rate and antenna rotation speed as the radar at Osceola. Indications are that this interfering radar is located in a South-Eastern direction from Osceola. It is considered possible that the AN/CPS-6B located at Kilmorn, Wisconsin, could have caused interference to the radar set located near Osceola.

The periodic appearance of the targets was caused by the slight difference in rotation speed of the two radar antennas - interference occurred when the two antennas were pointing towards each other.

Targets on photos marked Inclosure "Point #1" cannot be as accurately evaluated as those described above. However, since they occurred at about the same time as the others, it is considered possible that they too may have been caused by interference from the interfering radar signals.

Weather data would be useful in determining if some distant (200 plus miles) radar set could have caused the interference. The data needed are as follows:

- a. Temperature vs height
- b. Moisture vs height
- c. Cloud conditions.

*R. L. James*  
Capt R. L. James

*Part of ground clutter which  
was not visible in the original  
photos was visible in the  
reproduced photos.*



SECURITY INFORMATION

**SECRET**

AF FORM 112-1  
NO. 6743H ACAN SQ.  
DATE: 8 AUG 1952  
INITIALS: *W*

AF FORM 112—PART I  
approved 1 June 1948

Country: USA Report No. 3-52 (Leave Blank)

AIR INTELLIGENCE INFORMATION REPORT

Subject: *UNKNOWN*

Area Reported On: Roughly thirty (30) nautical miles SE of thirty (30) nautical miles SE of 6743H. Source (Agency): 6743H ACAN SQ.

Date of Report: 7 August 1952 Date of Information: 29 July 1952 Evaluation:

Prepared by (Officer): WILLARD L. WORDEN, Lt Col, USAF Source: Members of 6743H ACAN SQ.

References (Control number, directive, previous report, etc., as applicable): APL 200-5 and 26 April 1952

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.)

During normal operations in the early morning of 29 July 1952 numerous unidentified flying objects were sighted on the radar indicators of this unit. Information relative to these unusual sightings is contained in this report.

The significance of this report lies in the fact that these sightings are electronic sightings made and recorded by competent personnel.

*Willard L. Worden*  
WILLARD L. WORDEN  
Lt Col, USAF  
Commanding

I, A/12 ~~\_\_\_\_\_~~  
being of sound mind and body, solemnly  
swear that the foregoing information given  
on 25 July 1952, 01:30 A.M., repeatedly  
saw light flashes in the sky at split  
second duration and several miles  
apart, leaving a short trail. Flashes  
appeared to be approximately 20 degrees  
above and parallel to the horizon. Flashes  
appeared about every ten seconds and  
on a true course, arcing across the  
sky, and traveling at an excessive  
rate of speed.

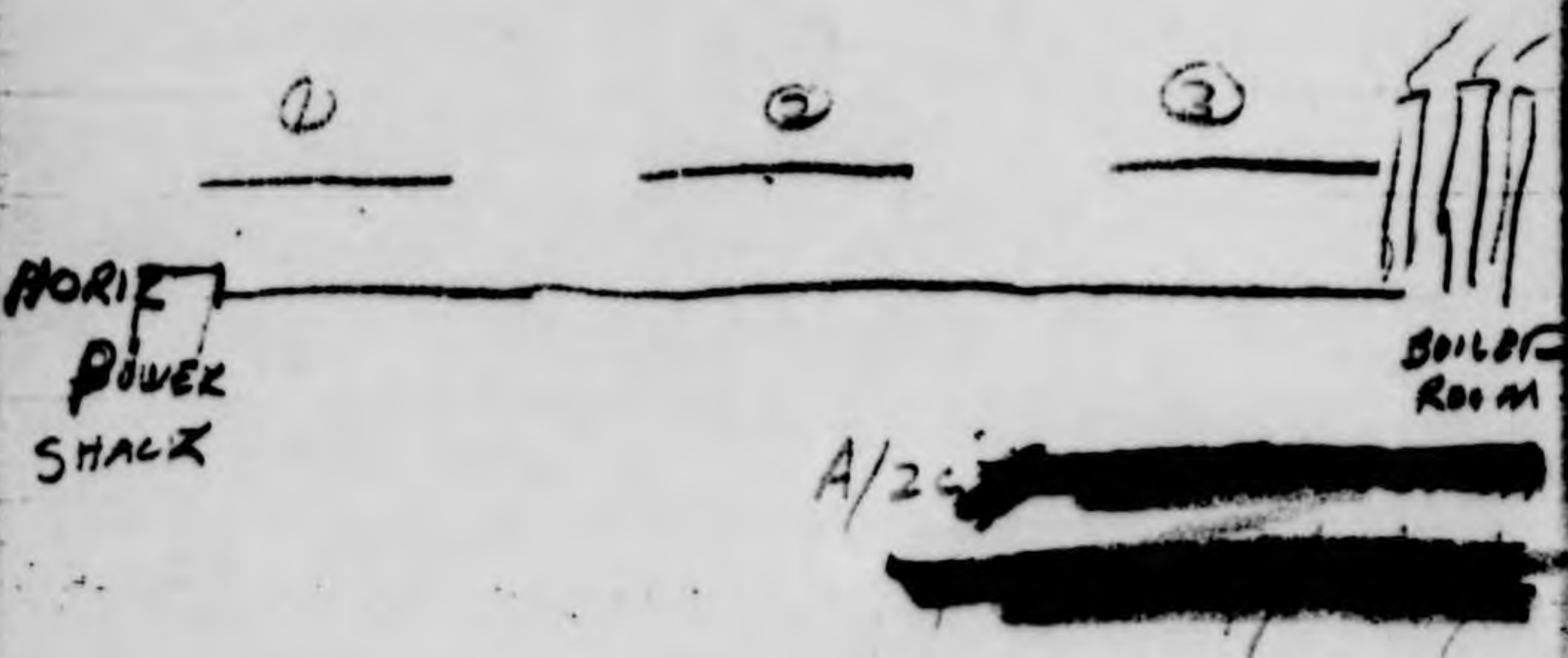
~~\_\_\_\_\_~~

~~It is~~ of sound mind

do hereby state that several flashes  
in the sky going at a very fast speed  
were seen at 10:00 P.M. I believe these  
flashes about twenty times

~~It is~~

THE OBJECT SEEMED TO  
BE A SHOOTING STAR AT FIRST  
BUT APPEARED AND DISSAPPEARED  
IN AN ARC STARTING ABOUT  
OVER THE PUMP ROOM AND  
EXTENDING TO ABOUT THE  
BOILER SHACK. I WAS LOCATED  
ON TOP OF THE OPERATIONS  
BUILDING, OVER THIS ARC  
IT APPEARED AND DISSAPPEARRED  
ABOUT THREE TIMES.



I ~~XXXXXXXXXX~~, being  
of sound mind do hereby state  
that I saw following occurrence  
happen on the twenty-fifth (25<sup>th</sup>) day  
of July 1952 at or around 0130 central  
standard time. Standing on top  
of operations roof I saw flashes  
of light at different intervals that  
appeared as if they were in one  
some cycle. These flashes of light  
that were seen by me appeared to  
be between 15 to 30 degrees above  
the horizon and seemed to leave  
a trace for a second.

~~XXXXXXXXXX~~

ASTOR LENOX TILDEN FOUNDATION

*[Handwritten signature]*

NEW YORK

1911

7  
CASE #77 (contd)

of first sighting due to a GOC report of visual sighting of unidentified flying objects.

One F-51 aircraft was sent to sighting area for purpose of intercepting and/or identifying unknown targets. This a/e occurs Pilot did report visually sighting unidentified flying object but interception and/or identification was not possible. This action occurred between 01308 and 02558.

One F-51 aircraft was in an area 50 to 70 nautical miles S and SSE of 45/15N-92/38-5.4W between the altitudes of 6,000 to 10,000' during the sighting period.

**ATIC Comments:**

Report indicates that anomalous propagation was affecting the radar performance. This condition would allow detection of ground targets which are not normally detected. This would not explain movement of targets unless weather conditions were such that every target (ground) was not detected in each sweep of the antenna thereby causing an apparent movement of stationary targets.

A firm analysis cannot be made.

**Conclusion:**

Unknown

16 MM FILM

July 29, 1952

OSCEOLA, WISC.

MULTIPLE OBSERVERS

IN CUSTODY OF AUDIO-VISUAL ARCHIVES

1975



AIR FORCE RESEARCH AND DEVELOPMENT REPORT

From (Agency) 674th ACW Sq, Cassola, Wis.	Report No. 1-52
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I. DESCRIPTION OF OBJECTS: Numerous unidentified flying objects or unknown aircraft were sighted by ground electronic means in the early morning of 25 July 1952 by members of the 674th ACW Sq, Cassola, Wisconsin. They were on duty. One of the NCOs which constituted the station was with the exception of one (1) target which was a lone formation. In #1, this report, speed of this lone formation was computed on the radar scope set on the fifty (50) marked mile range. The sightings were individual sightings having multiple targets in one (1) appearing in a lone cluster on the radar scope (reference is made to Part II of this report), speed of these targets was fifty (50) to sixty (60) knots as computed on the radar scope set on the fifty (50) marked mile range. The only possible formation noted during the entire sighting period was either one (1) or two (2) of the sightings which consisted of multiple targets in one (1) or two (2) or three (3) of these targets might possibly have been made in a lone formation. All targets suddenly appeared on the radar scope and after having traveled between thirty (30) and seventy (70) marked miles would just as suddenly disappear. Targets did not appear on the radar scope due to anonymous propagation. Targets followed a general pattern of appearing on the radar scope southeast of the sighting station and proceeding westward until disappearing. There was a continual overlapping of patterns on the radar scope and a new pattern would have appeared before the old pattern would have disappeared. In the sightings which consisted of multiple targets (reference is made to Part II, this report), with the exception of possible formation movement (see applicable enclosure) targets progressed across the radar scope, until disappearing independently of each other in regard to track and heading with some targets making a turning course. There was some correlation between these electronic sightings and visual sightings made by a pilot of the 109th P.F. Interceptor Sq, Wold-Chamberlain Fld., Minneapolis, Minn., who was scrambled by the 674th ACW Sq. controller in conjunction with the radar sightings. This correlation placed both types of sightings in the same area at the same time. Pilot estimated height of objects he visually saw at 125,000 feet. Sighting station was specifically searching for possible unidentified flying objects at time of first sighting due to a Ground Observers Corps report of visual sighting of unidentified flying objects.

3 Incls.

1. Series of eight (8) radar scope photographs
2. Series of three (3) radar scope photographs
3. One (1) observers signed narrative statement

Distribution by Originator

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CG 31st AD

B. Chief ATIC, ATTN: ATIAA-2c

NOTE: This document contains information affecting the national defense of the United States within the meaning of the Espionage Act, 50 U.S.C. — 31 and 32, as amended. Its transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law. It may not be reproduced in whole or in part, by other than United States Air Force agencies, except by permission of the Director of Intelligence, USAF.

SECURITY INFORMATION

Approved 1 June 1968



From (Country)	Map Grid No.
Spain 1000 N, 000000 W	3-52

**5. SUMMARY INFORMATION OF OBSERVATIONS**

Observer Name	Lat. N. - 0000	Long. W. - 0000	Time Observed	4 Nov 1968
Observer Rank	Lat. E. - 0000	Long. W. - 0000	Time Observed	3 Nov 1968

6. **DESCRIPTION OF THE WEATHER** Weather at sighting station was CIG. Weather at time of sighting was CAV as reported by pilot. There was no IS sighting reported. Wind alt was unknown.

7. **CONTINUOUS ACQUISITION FOR SIGHTING** Nothing that has not been stated.

**8. SUMMARY OF EVIDENCE**

a. Photographs of radar scope showing size, number and movement of targets. Photographs are in two (2) inclosures.

(1) Inclosure #1, this report, is a series of eight (8) photographs, times as indicated on photographs, showing eight (8) individual views of sighting in form of well defined target as it progressed across radar scope. Each photograph is a point of Incl #1, this report, and has appropriate annotations on reverse side.

(2) Inclosure #2, this report, is a series of three (3) photographs, times as indicated on photographs, showing three (3) individual views of sighting in form of multiple target as they appeared on radar scope. Each photograph is a point of Incl #2, this report, and has appropriate annotations on reverse side.

b. Signed narrative statements of observers. Statement is one (1) inclosure.

(1) Inclosure #3, this report, is one (1) signed narrative statement by observers of unidentified flying objects. Statement has appropriate annotations on reverse side.

one (1) hour.

3. MANNER OF SIGHTINGS: Sightings covered by this report were made by ground electronic equipment. Type of equipment—AN/CPS-6B; Frequency—2725Mc to 3005Mc; PRF—600PPS; Antenna tilt—For sighting in which target was well defined blip (Reference is made to Incl #1, this report) antenna tilt was nine (9) degrees, for other sightings (Reference is made to Incl #2, this report) antenna tilt was five (5) degrees. All meter readings were normal and equipment was functioning properly.

4. LOCATION: Location of sighting station is 15/15N-92/30/5W. Targets would appear on the radar scope in a general area twenty (20) to thirty (30) nautical miles southwest to south of sighting station and after traveling southeast would disappear from the radar scope in a general area thirty (30) nautical miles southeast of sighting station (Reference is made to Incl #1 & #2, this report).

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(Classification)

SECURITY INFORMATION

was sent to sighting area by the 674th AC&I Sq., controller for purpose of intercepting and/or identifying unknown targets. This aircraft was from the 109th Ftr. Interceptor Sq., Cold Chamberlain Fld., Minneapolis, Minn. Pilot did report visually sighting unidentified flying objects but interception and/or identification was not possible. This action occurred between 290130Z and 290250Z.

10. LOCATION OF AIR TRAFFIC: One (1) F-51 type aircraft was in an area fifty (50) to seventy (70) nautical miles south and south southeast of 15/15N-92/30W 5.4M between the altitudes of 6000 to 10000 feet during the sighting period.

*Willard L. Worden*  
WILLARD L. WORDEN  
Lt Col, USAF  
Commanding

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(Classification)

3. ATIA  
2. ATIA  
3. C. Flo

0001942 10 10

gp

195 JUL 25

HA 151

WPG 158

YMX 226

JEDKF 063

FP JEDEN JEDWP JEPHO 333

DE JEDKF 01A

P 251645Z ZNJ

FM CG 574TH ACWF SO OSCEOLA MS

TO JEPHO/D/I INT HQ USAF WASHDC

JEDWP/CG ATIC WRIGHT PATTERSON AFB OHIO ATIAA-2C

OJEDEN/CG ADC ENT AFB COLO

HL1/CG CADE KSC MO

GVJ/CG 31ST ADIV FT SNELLING MINN

251645Z JUL 51. FLYOVER OBJECTS SIGHTED BOTH  
ELECTRONIC AND VISUAL MEANS AT 250122S TO 250245S. SIZE UNDETERMINED.  
SIZE OF BLIP VARIED. SPEEDS VARIED BETWEEN 14400 KNTS AND 20000 KNTS.  
REPORTS AND COMPUTATIONS SUBMITTED BY OFFICER CONTROLLERS AND  
AIRMEN ON DUTY THIS STATION AND TWO PILOTS AIRBORNE FROM 139TH  
FTR INTERCEPTOR SQDN. TARGETS GENERALLY APPEARED EAST OF STATION  
AND PROGRESSED SOUTH WEST. WEATHER AT SIGHTING STATION AND SIGHTING  
AREA CAVU. LIGHTNING FLASHES FAR TO NORTH OF SIGHTING STATION  
DURING SIGHTINGS.

251645Z JUL 51

09-1

ACTION

V. ATIAA

OPERATIONAL IMMEDIATE

J. ATIAA

3.C. Files

*cm*

REC-100  
INFOR

ED095  
REC 03  
EX 112  
EDKE 019  
FOR JEDKE 007  
EDKE 007  
321500Z ZNS  
CO 574TH ACFT SQ 030000A WIS  
TO JEPHQ/DI INT HQ USAF WASHINGTON DC  
MEDJF/CO ATIC BRIGAD PATERSON AFB OHIO ATIAA-EC  
JEDKE/CG ADC ENT AFB COLO  
ALL/CG CADE KSC HO  
OVJ/CG 61ST ABIV FT SUELLING WISN

574TH ACFT. FLYOVER OBJECTS GROUND ELECTRONIC  
BEARS 234100Z. SIZE UNDETERMINED. SIZE OF BLIP VARIED. TOP SPEED 300 MPH  
REPORT AND COMPUTATIONS CONDUCTED BY OFFICER CONTROLLERS ON DUTY. 5/76  
SCANNED FROM 105TH FTR INTERCEPTOR SQUADRON. TARGETS APPEARED IN  
GENERAL AREA SURROUNDING FT WALKER MISSOURI. WEATHER CALM.

03/15/02 JUL 74

*cup 1*

674th AIRCRAFT CONTROL UNIT, AIR FORCE, ST. PAUL  
Osceola, Wisconsin

7 August 1952

W A E F L E B A Y I T

At 0730Z, 27 July 1952, we the undersigned, began to notice targets on our Radar scopes just east of the Twin Cities. We had tilted the antenna to 5° just prior to this because of a GOC report of an unusual object. The targets which we noted on the scopes were traveling in a southeast direction at from 50 to 60 knots. After traveling about 30 miles in this manner they would fade. There were up to 10 of these on the scopes at one time. At times it would appear like a cone formation was being flown by two or three of these. The targets continued to appear around the area about 5 to 15 miles east to northeast of the Twin Cities for an hour. These targets did not fly in the same track or the same heading. Some were making turns. The antenna tilt was 5° on these sightings to eliminate anomalous propagation on the scopes and pick up the targets.

One large target appeared at 105° at a range of 17 miles. In less than a minute it was at 165° at 21 miles. It continued in this manner for about 70 miles and faded. At this time we had the antenna tilted to 9°. This target was moving east, traveling over 600 MHz and had a continuous track. It was a clearly defined blip. No weather of any kind was in the area. We were not receiving any electronic interference.

WAA/S was scrambled because of these sightings. The intercept pilot observed what appeared to be snobing stars or comets with tails on several occasions when vectored toward the targets which were on our scopes. There were so many targets that we had the pilot patrol the general area east of St. Paul and south of the site of the 674th ACU Squadron. The pilot observed one or two of these objects while doing this. He was at 25,000 feet and thought the things he saw were at 125,000 feet.

*Brack Diamond Jr.*  
BRACK DIAMOND, JR.  
1st Lt., USAF  
Controller

*Sven P. Jenette*  
SVEN P. JENETTE  
1st Lt., USAF  
Controller



THIS CASE INCLUDES  
TWO ENVELOPES WITH  
91 PHOTOS OF RADAR  
SCOPE.

HEADQUARTERS UNITED STATES AIR FORCE

## ROUTING AND RECORD SHEET

TALLY NO.	
FILE NO.	

SUBJECT: FLYORBPT Rpt 8-1-52

TO: Air Technical Intelligence Center  
ATTN: Capt Hardin

DATE 26 MAR 1954  
COMMENT NO. 1

FROM: Directorate of Intelligence, DCS/O Lt Col Smith/tjc/71092/AFOIN-X

1. The attached reports were brought to this office in April 1953, for information purposes.

2. Question: Is it possible to get a new radar <sup>TYPE</sup> sighting for the "Summary" from these reports?

1 Incl  
Rpt 8-1-52 "FLYORBPT"  
w/incls

*W. K. Smith*  
W. K. SMITH  
Lt Colonel, USAF  
Directorate of Intelligence

TO: Directorate of Intelligence  
Policy and Management Group  
ATTN: Lt Col Smith, AFOIN-X

DATE 9 APR 1954  
COMMENT NO. 2  
ATIAE-5/Capt C.A.Hardin/jos  
73147/Bldg263A/Post A29 A29.

FROM: Air Technical Intelligence Center

1. In the reports referred to, it is believed that no connection actually exists between the visual and radar sightings; therefore, they would fall in the same category as many other simultaneous reports.

2. Paragraph 3 of the radar summary could logically be expanded with the following statement: "The large amount of ground clutter on the radar indicator is associated with anomalous (temperature and humidity conditions) weather conditions. The targets reported on photos marked 'Inclosure 1' most likely are different individual stationary ground targets. The signal amplitude of ground targets that are detected due to temperature inversion and/or moisture lapse may only paint occasionally or at a random rate. When several individual targets are painting in this random manner, it is quite easy to assume that a particular stationary target has moved from one location to another, resulting in apparent speed variations from zero to several thousand miles per hour.

3. There is no new data that will allow a more complete analysis.

1 Incl  
n/c

*R. C. Schum*  
R. C. SCHUM  
CWO, USAF, Asst. Adj.  
Air Technical Intelligence Center

29 July 1952, Osceola, Wisconsin

Report indicates that anomalous propagation was affecting the radar performance. This condition would allow detection of ground targets which are not normally detected. This would not explain movement of targets unless weather conditions were such that every target (ground) was not detected on each sweep of the antenna - thereby causing an apparent movement of stationary targets.

A firm analysis cannot be made.

Weather data: Temperature vs height, and moisture lapse vs height would be of some assistance in analysis.

See rpt dtd 25 July 52.

Capt R. L. James  
13 September 1952

15/sec  
900 <sup>mi</sup> / min  
54000  
60

10/sec  
150 mi  
19

23 JUL 1952 10 10 2

1952 JUL 21 05

- 1. ATIAA
- 2. ATIA
- 3. C. Files

ACTION TELETYPE INFO

1952 JUL 25

16:52

RA151

WPG158

YMX206

HEDKF 063

PP JEDEN JEDWP JEPHQ 333

DE JEDKF 01A

P 251645Z ZNJ

FM CO 674TH AC&W SQ OSCEOLA WIS

TO JEPHQ/D/I INT HQ USAF WASHDC

JEDWP/CO ATIC WRIGHT PATTERSON AFB OHIO ATIAA-2C

QJEDEN/CG ADC ENT AFB COLO

NL1/CG CADF KSC MO

CVJ/CG 31ST ADIV FT SNELLING MINN

~~████████████████████~~ 674-25-G-01. FLYORBT OBJECTS SIGHTED BOTH ELECTRONIC AND VISUAL MEANS AT 250122S TO 250245S. SIZE UNDETERMINED. SIZE OF BLIP VARIED. SPEEDS VARIED BETWEEN 14400 KNTS AND 20000 KNTS. REPORTS AND COMPUTATIONS SUBMITTED BY OFFICER CONTROLLERS AND AIRMEN ON DUTY THIS STATION AND TWO PILOTS AIRBORNE FROM 139TH FTR INTERCEPTOR SQDN. TARGETS GENERALLY APPEARED EAST OF STATION AND PROGRESSED SOUTH WEST. WEATHER AT SIGHTING STATION AND SIGHTING AREA CAVU. LIGHTNING FLASHES FAR TO NORTH OF SIGHTING STATION DURING SIGHTINGS.

25/1652Z JUL 7VK

Cy-1

[REDACTED]

INCLOSURE 43, REPORT 3-25  
Observers signed Narrative of sightings

674th AC&W Sq.  
Osceola, Wisconsin

674TH AIRCRAFT CONTROL AND WARNING SQUADRON  
Osceola, Wisconsin

7 August 1952

A F F I D A V I T

At 0730Z, 29 July 1952, we the undersigned, began to notice targets on our Radar Scopes just east of the Twin Cities. We had tilted the Antenna to 5° just prior to this because of a GOC report of an unusual object. The targets which we noted on the scopes were traveling in a southeast direction at from 50 to 60 knots. After traveling about 30 miles in this manner they would fade. There were up to 10 of these on the scopes at one time. At times it would appear like a loose formation was being flown by two or three of these. The targets continued to appear around the area about 5 to 15 miles east to northeast of the Twin Cities for an hour. These targets did not fly in the same track or the same heading. Some were making turns. The Antenna tilt was 5° on these sightings to eliminate anonymous propagation on the scopes and pick up the targets.

One large target appeared at 135° at a range of 19 miles. In less than a minute it was at 165° at 21 miles. It continued in this manner for about 70 miles and faded. At this time we had the Antenna tilted to 9°. This target was moving east, traveling over 600 MPH and made a continuous track. It was a clearly defined blip. No weather of any kind was in the area. We were not receiving any electronic interference.

An A/C was scrambled because of these sightings. The interceptor pilot observed what appeared to be shooting stars or comets with tails on several occasions when vectored toward the targets which were on our scopes. There were so many targets that we had the pilot patrol the general area east of St. Paul and south of the site of the 674th AC&W Squadron. The pilot observed one or two of these objects while doing this. He was at 25,000 feet and thought the things he saw were at 125,000 feet.

[REDACTED]  
1st Lt, USAF  
[REDACTED]

[REDACTED]  
1st Lt, USAF  
[REDACTED]

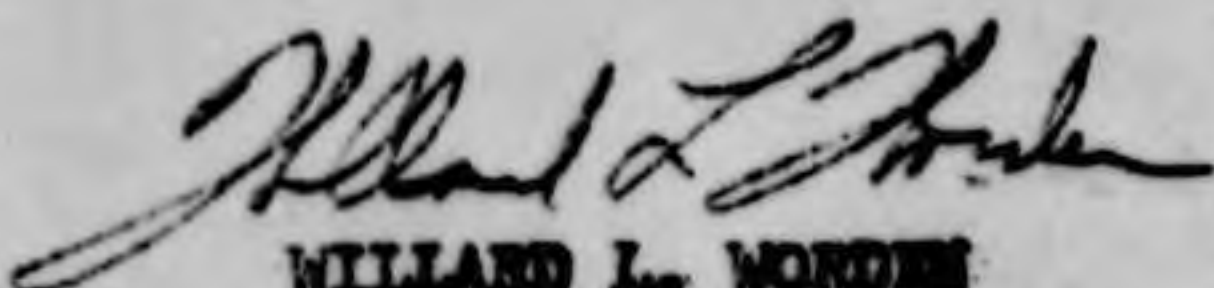
[REDACTED]

[REDACTED]



AF FORM 112--PART I  
approved 1 June 1948

CLASSIFIED  
BY: [REDACTED]  
HQ 674TH AC&W SQ.  
DATE: 8 AUG 1952  
INITIALS *[Signature]*

Country	USA	Report No.	3-52	(Leave Blank)
AIR INTELLIGENCE INFORMATION REPORT				
Subject	FLYORPT			
Area Reported On	Roughly thirty(30) Nautical Miles SW to thirty(30) Nautical Miles SE of 674th.		From (Agency) 674th AC&W Sq.	
Date of Report	Date of Information		Evaluation	
7 August 1952	29 July 1952			
Prepared by (Officer)	Source			
WILLARD L. WORDEN, Lt Col, USAF	Members of <del>674th AC&amp;W Sq.</del>			
References (Control number, directive, previous report, etc., as applicable) AFL 200-5 dtd 26 April 1952				
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.)				
<p>During normal operations in the early morning of 29 July 1952 numerous unidentified flying objects were sighted on the radar indicators of this unit. Information relative to these unusual sightings is contained in this report.</p> <p>The significance of this report lies in the fact that these sightings are electronic sightings made and recorded by competent personnel.</p>				
 WILLARD L. WORDEN Lt Col, USAF Commanding				
3 Incls.				
1. Series of eight (8) radar scope photographs				
2. Series of three (3) radar scope photographs				
3. One (1) observers signed narrative statement				
Distribution by Originator				
A. D/I Hqs USAF		CG C&W	B. Chief ATIC, ATTN: ATIAA-2c	
CG ADG		CG 31st AB		