

**PROJECT 10073 RECORD CARD**

<b>1. DATE</b> 22 October 1951	<b>2. LOCATION</b> North Truro, Mass		<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 _____ GMT 0418Z - 0422Z	<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 Operators		<input type="checkbox"/> Was Astronomical <input type="checkbox"/> Probably Astronomical <input type="checkbox"/> Possibly Astronomical
<b>7. LENGTH OF OBSERVATION</b> 4 Minutes	<b>8. NUMBER OF OBJECTS</b> 1	<b>9. COURSE</b>	<input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Insufficient Data for Evaluation <input type="checkbox"/> Unknown
<b>10. BRIEF SUMMARY OF SIGHTING</b> Radar Report. SEE CASE FILE EVALUATION. . . INSUFFICIENT DATA The weather information does not support temperature-inverted anomalous propagation. There probably are other discrepancies in the upper atmosphere which could also cause anomalous propagation. The possibility that meteors entered the atmosphere and were detected cannot be disregarded, and may be the answer to this report. A meteor would cause ionization of the air which should increase the target detectability. Short duration of the condition supports this theory, rather than		<b>11. COMMENTS</b> anomalous propagation.	



IR - 47 - 51 E

This sighting occurred about 8 hours later than the other sighting (same report number) — with all conditions similar except for time, duration of tracking, and direction of the track.

The temperature and altitude information are the same, indicating no temperature inversion. It would be unlikely that two meteor trails would be observed the same day, and 4 minutes seems too long for this type of target.

There isn't sufficient data regarding the track direction, range, changes, etc. to enable ~~an~~ <sup>a meaningful</sup> evaluation to be made.

~~TOP SECRET~~

74701

TDEED

18 Feb 64

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AF FORM 112—PART I  
APPROVED 1 JAN 1954

(CLASSIFICATION)

COUNTRY U.S.A.	REPORT NO. IR-47-51E	(LEAVE BLANK)
<b>AIR INTELLIGENCE INFORMATION REPORT</b>		
SUBJECT REPORT OF UNUSUAL RADAR SCOPE SIGHTING		
AREA REPORTED ON EADF	FROM (Agency) D/I EADF	
DATE OF REPORT 8 NOVEMBER 1951	DATE OF INFORMATION 1 NOVEMBER 1951	EVALUATION
PREPARED BY (Officer) DEN E.H. GERSHATER, Captain, USAF	SOURCE 32d AIR DIV (LTR, 000319.1, 1 NOV 51, RPT OF UNUSUAL RADAR TARGETS.	
REFERENCES (Control number, directive, previous report, etc., as applicable) ADC I 200-1		

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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.)

On 22 October 1951, the radar station, located at North Truro, Massachusetts observed an unusual sighting on its radar scopes, at a location approximately 120 to 300 miles East and East-North-East away. Details are listed on Part II, this report. "The individual echo returns, and the appearance of the track, substantiate the probability that these radar "pick-ups" may actually have been that of an unidentified flying object, rather than some type of radar interference or malfunction."

APPROVED:

*B.K. Baumgardner*  
BRUCE K. BAUMGARDNER  
Lt. Colonel, USAF  
Director of Intelligence

0 INCL.

*original sent to HQ USAF*

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DOD DIR 5200.10

28745

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DISTRIBUTION BY ORIGINATOR

2 cys - CG, AMC, Wright-Patterson AFB, Dayton, Ohio, Attn: MCIS  
1 cy - CG, ADC, Ent AFB, Colorado Springs, Colorado, Attn: Deputy for Intelligence

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(CLASSIFICATION)

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515-162517

AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency) D/I RAIF	REPORT NO. IR-47-51E	PAGE 2 OF 2 PAGES
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In compliance with provisions of ADC Letter No 200-1, "Reporting of Information on Unconventional Aircraft", 11 April 1951, reference: sub-paragraph 5b thereof, the following detailed report, as required in sub-paragraph 5a(1) thereof, is submitted, concerning an unusual sighting, on its radar scopes, by a station located at North Truro, Massachusetts.

- (a) Description of object: Returns indicated a characteristic "sausage shape", in which the dimension in range is smaller than the dimension in azimuth. Amplitude of the return varied from radar "pick-up" to "pick-up" and was never appreciably strong; these two characteristics are typical of any radar return of an aircraft or flying object. Possible preclusion of the object being flying object was the extreme range of final pick-up. Normally, a flying object capable of indicated great speed (reference: below) would be streamlined.
- (b) Time of sightings: From 22-0418Z to 22-0422Z, for duration of four (4) minutes. Estimated speed: approximately 1800 knots.
- (c) Manner of observation: by radar "pick-up", on Plan Position Indicator CPS-63 radar set, on frequencies of 2992 and 3014 megacycles, by station at North Truro, Massachusetts. Observation from surface station.
- (d) Location of observer: Station located at 4202N; 7003W. Single object observed along track, from 4310N; 6810W to 4440N; 6530W, at an unknown altitude, at locations approximately 120 to 300 miles East, ENE, and ESE of observer, during four-minute observation pickups. Course: approx ESE.
- (e) Identification of observer: Radar station. Reliability: normal. Estimate of reliability and experience: unknown.
- (f) Weather conditions at time of sighting: clear, visibility: 15 miles; temperature: 38 degrees F.
- (g) Other factors which might account for phenomenon: Nothing definite. However, the suggestion is offered that: (1) annual "showers" of meteorites, normally due 12-15 November, each year, may be a possible cause; (2) possible meteor from Kopff's comet, due to return near the Earth, October, 1951. No meteorological phenomena in evidence, however, to indicate either. The possibility remains that the object may have been an unconventional flying object.
- (h) No physical evidence exists of the observation. Object was above ocean.
- (i) No identification or interception procedures were undertaken.
- (j) Local aircraft airborne at time of sightings: no information available.

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DOJ DIR 6200.10

*Ben Z. M. Gerswater*  
BEN Z. M. GERSWATER  
Captain, USAF  
Intelligence Duty Officer

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C-1 ~~██████████~~ ROUTINE  
FM EADF STEWART AFB NY  
TO CG ANC WPAFB OHIO

1-ATIAA  
~~ATIAA~~  
3-ATI

ORIGINAL REF NR: ...  
-GRUDGE. REF YOUR MSG  
A. AVAILABLE WEATHER MATERIAL BEING FORWARDED UNDER  
SEPARATE COVER ADDRESSED ATTN: ATIAA-GRUDGE. B. NO OTHER  
EQUIPMENT OBSERVED PHENOMEN ON C. NEGATIVE. WEATHER INFORMATION  
RPT INDICATED EXISSTING SUBSIDENCE CONDITION MAY HAVE RESULTED  
IN ANOMALOUS PROPAGATION.

~~██████████~~ 575-170777

NOVEMBER

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OK DTG REMOVED

ROUTING

## JOINT MESSAGEFORM.

COMMUNICATIONS CENTER NO.

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FROM: (Originator)

CO, ATIC

TO: Hq, 32nd Air Division (Defense)  
Stewart AFB, Newburgh, N. Y.  
RABNOTE

INFO: D/I, Hq USAF, Washington 25, D. C.

DATE-TIME GROUP 71900Z Nov 51		SECURITY CLASSIFICATION <del>SECRET</del> INFORMATION	
PRECEDENCE FOR:	ACTION Routine		
<input type="checkbox"/> BOOK MESSAGE	<input checked="" type="checkbox"/> ORIGINAL MESSAGE		
<input checked="" type="checkbox"/> MULTIPLE ADDRESS	CRYPTOPROTECTION <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
REFERS TO MESSAGE:			
IDENTIFICATION		CLASSIFICATION	

Reference your report on radar sightings at North Truro, Mass., on 22 Oct 51,  
Subject: "Information on Unconventional Aircraft", dated 31 Oct 1951. Please advise  
on following:

- a. Is there any weather data available from nearby U.S. weather stations, which include temperature vs altitude, humidity vs altitude, wind velocity vs altitude?
- b. Was the target observed by any other nearby radar equipments? If so, give details.
- c. Has anomalous propagation been observed to extend the range of ground clutter by this radar at this site, and did this condition exist during or near the time that unknown target was observed?

In reply cite AFIAA-Grudge.

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518-163816

ORIGINATOR'S NAME (and signature, when required)		SECURITY CLASSIFICATION <del>SECRET</del> INFORMATION	PAGE 1 OF 1 PAGES
Lt Henry Netscher/vs		RELEASING OFFICER'S SIGNATURE	
SYMBOL AFIAA-2	TELEPHONE 54261	OFFICIAL TITLE	

DD FORM 173  
1 OCT 49REPLACES NME FORM 173, 1 MAY 49,  
WHICH MAY BE USED.

16-50023-2 U. S. GOVERNMENT PRINTING OFFICE

HEADQUARTERS  
EASTERN AIR DEFENSE FORCE  
STEWART AIR FORCE BASE, NEWBURGH, N. Y.

INT 350.09

SUBJECT: Information on Unconventional Aircraft

19 NOV 1951

TO: Commanding General  
Air Materiel Command  
Wright-Patterson Air Force Base  
Dayton, Ohio

ATTN: ATIAA-GRUDGE

In accordance with message, your headquarters, AT-9117, dated 8 November 1951, and message, this headquarters, transmitted 15 November 1951, below-listed inclosures are submitted.

FOR THE COMMANDING GENERAL:

*Robert J. Ortel*  
ROBERT J. ORTELT  
CAPTAIN, USAF  
Ass't Air Adjutant General

9 Incls

1. Upper Air Data
2. Winds Aloft
3. Synoptic Situation
4. Eastern US RAOBS
5. Constant Pressure Chart 700 MB
6. Constant Pressure Chart 500 MB
7. Constant Pressure Chart 850 MB
8. Adiabatic Diagram
9. USAF Weather Plotting Chart



## UPPER AIR DATA

26 Oct 0300Z

	<u>(5000 ft)</u>	<u>Temp.</u>	<u>Wind Direction</u>
Stewart, N.Y.	850 MB	+ 7°C	340/41
Portland, Me.	850 MB	+ 6°C	320/20
Otis, Mass.	850 MB	+ 8°C	310/37

  

	<u>(10000)</u>	<u>Temp.</u>	<u>Wind Direction</u>
Stewart, N.Y.	700 MB	+ 2°C	310/40
Portland, Me.	700 MB	+ 1°C	320/35
Otis, Mass.	700 MB	apprx + 3°C	300/44

  

	<u>(18000 ft)</u>	<u>Temp.</u>	<u>Wind Direction</u>
Stewart, N.Y.	500 MB	-14°C	300/37
Portland, Me.	500 MB	-14°C	310/54
Otis, Mass.	500 MB	apprx -14°C	300/55

## WINDS ALOFT

26 Oct 0300Z

<u>1000 ft Elevation</u>	<u>Boston Mass.</u>	<u>Stewart N.Y.</u>	<u>Nantucket MASS.</u>	<u>Portland Me.</u>
Surf	280/12	270/13	300/09	300/06
1	300/25	290/10	330/15	300/16
2	310/33	320/11	310/24	310/19
3	310/31	340/18	300/32	320/20
4	330/31	340/27	300/36	320/20
5	340/32	340/41	310/37	320/20
6	330/34	330/42	310/37	310/23
7	320/40	330/39	310/38	310/26
8	320/45	330/40	310/39	310/30
9	320/47	330/42	300/44	310/34
10	320/48	310/40	300/44	320/35
12	320/50	310/34	290/43	320/41
14		290/42	300/48	320/52
16		290/36	300/51	310/60
18		300/37	300/55	310/54
20		310/49	300/98	

26 Oct 0300Z

**Synoptic Situation**

1031 High Pressure Cell Centered Over Northern Virginia at 260330Z

Moving NE. Entire Area Under Influence of High Cell.