

## PROJECT 10073 RECORD

1. DATE - TIME GROUP	2. LOCATION
11 Sept 67 12/0442Z	Kinchloe AFB, Michigan
3. SOURCE	10. CONCLUSION
Military	Sighting: (NOT OBSERVED VISUALLY) Radar: (Probable - ANOMALOUS PROPAGATION) No objects were painted by SAGE radars. Radar experts stated that sighting was probable due to anomalous propagation.
4. NUMBER OF OBJECTS	11. BRIEF SUMMARY AND ANALYSIS
17	No objects were seen visually. However, numerous "objects" were tracked at various speeds from slow to about 2000 mph. See case for a description of flight paths.
5. LENGTH OF OBSERVATION	
1 hour, 19 minutes	
6. TYPE OF OBSERVATION	
Ground-Radar	
7. COURSE	
Complex	
8. PHOTOS	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9. PHYSICAL EVIDENCE	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

FORM  
FTD SEP 63 0-329 (TDE) Previous editions of this form may be used.

DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS FOREIGN TECHNOLOGY DIVISION (AFSC)  
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433



REPLY TO  
ATTN OF:

TDPCS/V. D. Bryant/mjb/70441

15 Jan 68

SUBJECT: UFO Report, Kincheloe AFB, Michigan

TO: TDPT/UFO(Major Quintanilla)

1. Reference is made to sighting of 17 UFO's by radar at Kincheloe AFB, Michigan.
2. There is no positive way to either prove or disprove the presence of the reported UFO's from the radar data. The fact that SAGE radars at other locations did not observe the objects tends to indicate a local situation. The objects of necessity had to come from outside the observed area at some time, and should have been observed then (by the SAGE radars), if they were in fact real objects.
3. The obvious "excuse" or "explanation" for the sightings appears to be temperature inversion. The erratic courses taken by the "objects", their wide variations in speed (150 to 2000 MPH), and the fact that no noise was heard, even at the low altitudes assumed, all point toward anomalous propagation due to temperature inversions.

*J. J. Jones*  
JEROME J. JONES, Colonel, USAF  
Chief, Command and Control Division  
Production Directorate

1 Atch  
UFO Tech Information

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
STAFF MESSAGE BRANCH  
INCOMING MESSAGE

AFIN: 8647 (12 Sep 67) R/fhm

ACTION: RDC-4 INFO: XOP-1, XOPX-2, SAFOS-3, DIA/JCS-1 (12) ADV CY DIA

SMB B237PTT12 YUW RUC ID SA9132 2552107-UUUU-RUEFHQA.

ZNR UUUUU

P 121800Z SEP 67

FM 507TRWG KINCHELOE AFB MICH

TO RUMFVA/ADC

RUC1HMA/29AD DILUTH MINN

RUEDFIA/FLO TNG DET WPAFB OHIO

RUEFHQA/C SAF

RUEFHQA/OFF OF THE SECRETARY OF THE AIR FORCE PENTAGON WASHDC

ZEN/UNIV OF COLO BOULDER COLO

BT

UNCLAS 507WG-C10 00057 SEP 67. FOR FLT. LT.

SMITH 29C10; TDETR; AFRDC; SAF-01; DR. CONDON, UNIV OF  
COLO, SUBJ: UFOS.

A. NOT SEEN OR OBSERVED.

1. N/A

2. N/A

3. N/A

4. 17 UFOS

A. 5, SIDE BY SIDE.

12 Sept 67

Kincheloe AFB

pg 1 of 5  
Mich.

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DEPARTMENT OF THE AIR FORCE  
STAFF MESSAGE BRANCH  
INCOMING MESSAGE

AFIN: 8647

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6. N/A

7. N/A

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8. N/A

B. 1. AT 0342Z - SOUTHBOUND AND SLOW MOVING, THEN EASTBOUND AT APPROX 2000 MPH.

2. AT 0350Z - ANOTHER UFO 250 DEGREE BEARING, TRACKING 050 DEGREES.

3. BETWEEN 0350Z AND 0430Z, NINE OTHER Ufos

A. 270 DEGREES TRACKING 090 DEGREES

B. 230 DEGREES TRACKING 030 DEGREES

C. 380 DEGREES TRACKING 100 DEGREES

D. 270 DEGREES TRACKING 090 DEGREES

E. 230 DEGREES TRACKING 030 DEGREES FOR 20 MILES, THEN CHANGED COURSE HEADING 360 DEGREES.

F. 280 DEGREES TRACKING 100 DEGREES FOR 20 MILES, THEN TURNED TO 180 DEGREES. THESE LAST TWO JOINED AT 30 MILES OLE WEST OF KINCHELOE AFB AND BOTH WENT EASTBOUND AT 2000 MPH. PASSED OVERHEAD BUT WERE NOT VISUALLY OBSERVED.

G. 150 DEGREES TRACKING 360 DEGREES

B. H. 030 DEGREES TRACKING 200 DEGREES

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DEPARTMENT OF THE AIR FORCE  
STAFF MESSAGE BRANCH  
INCOMING MESSAGE

AFIN: 8647

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1. 030 DEGREES TRACKING 270 DEGREES
4. AT 0438Z - ANOTHER UFO HEADING 200 DEGREES TRACKING 360 DEGREES
5. AT 0458Z - ANOTHER AT 280 DEGREES TRACKING 120 DEGREES 60 MILES

PAGE 3 RUC ID SA 9132 UNCLAS

OUT UNTIL 20 MILES OUT, THEN TRACKED 270 DEGREES.

6. AT 0500Z - TWO UFOS ON RADAR AT SAME TIME
  - A. BEARING 200 DEGREES, TRACKING 090 DEGREES, TURNED TO TRACK 360 DEGREES, SLOWED DOWN FOR 8 MILES, TURNED TO 270 DEGREES AND DISAPPEARED FROM SCOPE.
  - B. BEARING 250 DEGREES, TRACKING 090 DEGREES, TURNED TO 360 DEGREES AND LEFT SCOPE.
7. AT 0501Z, 270 DEGREES TRACKING 030 DEGREES, TURNED TO 360 DEGREES, SLOWED DOWN, TURNED TO 270 DEGREES, TURNED TO 360 DEGREES AND SPEEDED UP AGAIN.
- C. 1. MPN-14 RADAR
2. N/A
3. N/A
- D. 1. STARTING 0342Z, 12 SEP 67; ENDING 002 12 SEP 67.
  2. NIGHT
- E. RAPCON SITE, KINCHELOE AFB, MICHIGAN

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DEPARTMENT OF THE AIR FORCE  
STAFF MESSAGE BRANCH  
INCOMING MESSAGE

AFIN: 8647

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F. 1. N/A

2. MICHAEL BURNS, SSGT, 2177TH COMM SGN; WATCH SUPERVISOR

G. 1. WEATHER CONDITIONS - CLEAR

2. WIND DIRECTIONS AND VELOCITY (DEGREES AND KNOTS)

PAGE 4 RIC IDSA9132 UNCLAS

A. SURFACE - 140 DEGREES 4

B. 6,000 - 240 DEGREES 20

C. 10,000 - 260 DEGREES QT

D. 16,000 - 240 DEGREES 20

E. 20,000 - 270 DEGREES 20

F. 30,000 - 260 DEGREES 35

G. 50,000 - 260 DEGREES 15

3. CEILING - NONE

4. VISIBILITY - UNLIMITED (20 MILES)

5. CLOUD COVER - NONE

6. THUNDERSTORMS IN AREA - NONE

7. VERTICAL TEMP GRADIENT - INVERSION AT 4000 - 5000 FT.

H. NONE

I. NONE

J. NONE, B-52 WESTBOUND AT 0342Z.

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DEPARTMENT OF THE AIR FORCE  
STAFF MESSAGE BRANCH  
INCOMING MESSAGE

AFIN: 8647

pg 5 of 5

K. UFO INVESTIGATOR, LEAMAN, TERRANCE E.

2D LT, 507WG-C10, KINCHELOE AFB, MICH.

AC 906 495-5611 EXT 2332, 2334, 2341; HOME EXT 2218.

BT

NNNN

UNCLASSIFIED

PP 72747 00941 21824 1930 410 2140 62236 2331 82429 2424 02422  
22421 42320 62221 82221 02217 32320 52422 02432 52641 82543 02530  
12520 52424 02522 325210

SSM TT 72734 00223 16083 01405 85585 11631 02321 70186 04685  
02614 50585 61803 02619 40752 73353 02533 30956 89/14 02634  
25078 99/19 02735 20221 05/19 02625 15403 09/12 02415 10655  
11.22 16222 05/12 127360

TT12 72734 55555 00000 16083 11878 09625 22856 11226 33704  
04687 44588 53749 55522 59722 66515 59791 77465 64847 83422  
71803 99397 74850 11368 78326 22353 80914 33311 379810

PP 72734 00931 1408 21416 1716 42020 2321 62420 2520 82519  
2517 02615 22714 42612 52418 82520 02719 32528 52535 02636  
52735 82736 02726 52413 02614 327130

RAP TT 72662 00528 85430 25006 02212 70091 10543 02318 50577  
60813 02535 40745 71889 02439 30951 88956 02329 25072 99/17  
02335 20216 10/17 02656 15396 11/12 02523 10649 09/13 02314  
11122 22200 11/11 125570

TT 72662 55555 00896 31027 11886 28035 22767 18541 33586  
53584 44565 55601 55556 55661 65536 56781 77458 64864 83400  
71889 99373 769230

PP 72662 00951 42208 2215 62316 2317 82315 2315 02319 22215  
42224 62435 32539 02424 32434 52341 02329 52337 02656 52520  
72436 02435 324160

14 Sep 67/1305 hours

MAJOR QUINTANILLA CONTACTED CAPTAIN TATES AT ADC/NORAD REGARDING  
UFO OBSERVATION ON RADAR AT KINCHELOE AFB, MICHIGAN. CAPTAIN TATES  
INDICATED THAT HE <sup>will</sup> CHECK OUT THIS REPORT FROM HIS END and would call  
MAJOR QUINTANILLA BACK TO REPORT HIS FINDINGS ON THIS 11 SEP 67 RADAR  
SIGHTING . THE ADC LIAISON OFFICER AT NORAD (ADC) IS:

MAJOR GENE GOTCH  
FTD - FTCSO at NORAD  
88 - autovan 348-2814/2176/6579

MAJOR GOTCH IS CURRENTLY ON LEAVE. CAPTAIN TATES' EXT IS 2445

14 Sept. 1967

Called Lt. Leaman at Kincheloe AFB Mich. 884 1451 ex 2332

He will find out;

- 1) If any scope photo's were made
- 2) Why no intercept action was taken
- 3) what other radars in the area should have picked up the UFO's. What radars actually picked up the UFO's.
- 4) If any one in the B-52 saw anything unusual, or if they were using any equipment that may effect radar.

info to auto center 900

MEMO FOR THE RECORD

1000 hours, 14 Sep 67

Subject: UFO on Radar

Lt. Leaman of Kinchelo called Lt. Marano regarding the RADAR sightings. They did not scramble aircraft because they do not have the capability. This must come out of Hqs 29th Air Division at Duluth Minnesota. Fed the information and why they didn't scramble Lt Leaman did not know. The B-52 did not see anything and was not playing with the radar. The Sergeant who was on radar duty said that if the B-52 was playing with the radar he could have gotten on a different channel and not had the problem. He tried all channels and was getting the same results. The other radar, 753rd at SS Marie had one strobe at 0500Z, 250 deg tracking. SS Marie did not see anything on scope. Their scopes are monitored by Duluth. Duluth picked up the strobe. The name in Duluth is "Blue Bottle". The Minneapolis Center FAA at Farmington, Minn was negative. Only the 753rd picked up one strobe.

MEMO FOR THE RECORD

14 sept. 1967

Called Hqs 29th Air Division  
Duluth, Minn.

Asked for action taken in regard  
to sighting. Will call back as  
soon as specific action that was  
taken can be fully determined.

MEMO FOR THE RECORD:

Subject: UFO Observation on Radar, Kincheloe, 11 Sep 67

At 1445, 14 Sep 67 Lt Stoecker Intelligence Division at Duluth, Minn, ext 756/755 spoke with Lt. Marano regarding the above sighting. There was no action taken since the visual was no more than 5 points for a short period of time and you couldn't have gotten something scrambled in that time. The sighting was on ground control approach radar. All that was observed was at ground level, by then nobody could have taken action. They didn't have anything on their SAGE \_\_\_\_\_ radars. Lt. Marano asked them how they were on radar. Lt Stoecker said he could not give all the information on the radars but that they weren't too good on low altitude. Lt. Stoecker said they consider the direction and it could be anomalous propagation, but then it could be other causes. The man who reported the sighting is very experienced and would probably know what it was if it was anomalous propagation. Lt. Stoecker said we could probably find out more by talking to Kincheloe. Lt. Stoecker said he would send a letter explaining what he had discussed over the phone. Lt. Stoecker said they had not gotten a report from SS Marie's radar. He said he would check it out again and indicate it in his letter. He didn't seem to be concerned that the sighting was anything unusual, especially since there was an inversion.

DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS 29TH AIR DIVISION (ADC)  
DULUTH INTERNATIONAL AIRPORT  
DULUTH, MINNESOTA 55814



REPLY TO  
ATTN OF: 290IN

SUBJECT: Unidentified Flying Object Report (507th Wing msg, 12 Sep 1967)

TO: FID (TDEDT-UFO)

1. In addition to the RAPCON (Radar Approach Control) sighting of SSgt Burns, two small boys from Ohio sighted a UFO not far from Kincheloe, on Sunday afternoon, 10 September, 1967. Their telephoned report was routed through Sault St. Marie AFS (a radar site about 20 miles from Kincheloe) to Lt. Leaman, the Information Officer at Kincheloe, who recorded all relevant information. This report was not forwarded to FID due to a lack of evidence to substantiate it.
2. No interception of the objects was attempted because authority for a scramble must come from the Senior Director at 29th Air Division Headquarters. The sighting was not reported to 29th Air Division until the following day. Also the objects were not detected by any SAGE-tied radars, only by the RAPCON unit, which has a range normally limited to about 40NM, or, at the most, 60NM. It is unlikely that any experienced Senior Director would order a scramble under these conditions.
3. There was no visual sighting of the objects, although Kincheloe control tower personnel were on duty at the time, and two of the objects passed over the base. If they were actual physical objects, they were probably at a very low altitude, since they were not detected by SAGE-tied radars.
4. In addition to SSgt Burns, the UFO's were also observed by A2C Rodney Roe and A2C Robert Carlson, both assigned to the RAPCON unit. The unit telephone extension is 3194.
5. SSgt Burns had no explanation for the sighting, and said he had never seen anything like it before. The equipment was checked for malfunction, and none was discovered. Twenty Ninth Air Division Weather personnel suggested that the temperature inversion might have caused anomalous propagation (AP) of the radar, causing false returns. Electronic Warfare personnel said interference from SAGE radars was unlikely.

FOR THE COMMANDER

*William B Stoecker*  
WILLIAM B STOECKER, 1/LT, USAF  
Assistant Intelligence Officer

MEMO FOR THE RECORD

26 Sept. 1967

Called Capt. Tate about clarification of Kinchloe Radar report. He said that he had called Kinchloe and Lt. Leaman was to have done it.

Called Lt. Leaman at Kinchloe and asked why clarification was not sent out. Lt. Leaman asked me what wasn't clear. I said that it had come down to me that there was only two UFOs on the radar not 17. Lt. Leaman said that there was a total of 17 UFOs on radar. Lt. Leaman said that the misunderstanding must have arisen from the fact that he had said that there was no ~~form~~ formation flying to speak of, and that the most that they had on radar at any one time was two, and that these two were side by side. He will send a message to clarify matter, both to us and Colorado, although he talked to Colorado the day before yesterday.

MEMO FOR THE RECORD

27 Sept. 1967

*Wright-PAT*

Called Capt. Kliperis at Base Operations and asked him about sonic booms. He told me that any aircraft moving at the speed of sound or above produces a continuous shock train. This shock wave is quite loud and he estimated that it could be heard at least 10 mile away. I asked him if an object moving at approx. 2,000 mi. per. hr. and less than a mile high would be expected to break the windows of houses over which it passed. He answered that it definitely would. He suggested that I contact Flight Dynamics Lab. if I needed exact details on sonic booms.

Surface Data, 1, Ichibee AFB  
13 Sep. 67.


0300Z: High scattered, visibility 20 miles.  
Station pressure 1038.2 mb, temperature 51°F,  
dew point 49°F, surface wind 140/09,  
altimeter setting 30.32 in. Remarks:  
Cumulus clouds.

0400Z: High scattered, visibility 20 miles, temperature  
50°F, dew point 48°F, surface wind 130/05,  
altimeter setting 30.32 in.


0500Z: High scattered, visibility 20 miles, temperature  
50°F, dew point 48°F, surface wind 140/04,  
altimeter setting 30.32 in.

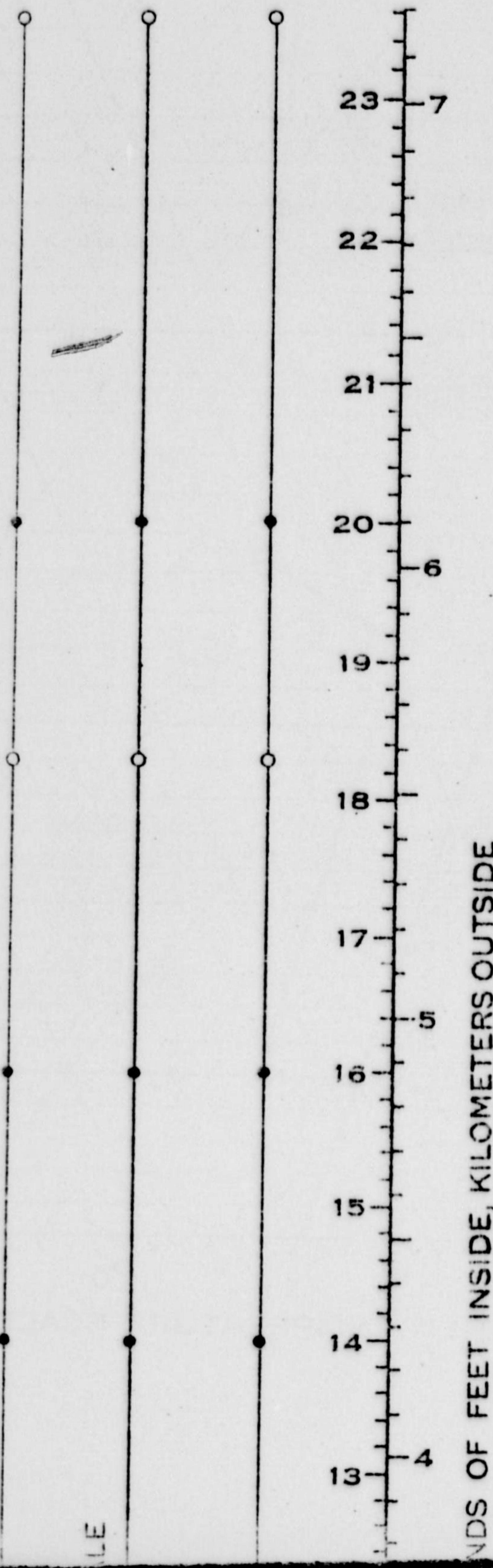
AWS WPC 9-16A

USAF MODIFIED  
(105)



# ED SKEW T, LOG P DIAGRAM (1050-400 MILLIBAR)





## EXPLANATION

ISOBARS are straight, horizontal brown lines. The heights in feet of the pressure surfaces in the ICAO Standard atmosphere are in parentheses ( ) below the pressure values on the left.

ISOTHERMS ( $^{\circ}\text{C}$ ) are the straight, equidistant brown lines running diagonally upward from left to right.

DRY ADIABATS are the slightly curved brown lines that intersect the 1000 mb. isobar at intervals of  $2^{\circ}\text{C}$ , and run diagonally upward from right to left.

SATURATED ADIABATS are the curved green lines that intersect the 1000 mb. isobar at intervals of  $2^{\circ}\text{C}$ , diverging upward and tending to become parallel to the dry adiabats. Values appear in the upper part of the diagram (515 mb. level).

SATURATION MIXING RATIO (in gm. per kg.) is represented by dashed green lines. The values appear at the bottom and middle of the diagram.

ICAO STANDARD ATMOSPHERE SOUNDING is indicated by a thick brown line.


The saturated adiabats and isopleths of saturation mixing ratio are computed by use of vapor pressure over a plane water surface at all temperatures.

APPROXIMATE VIRTUAL TEMPERATURE may be obtained from the formula  $T_v \approx T + \frac{w}{6}$  where  $T_v$  is virtual temperature in  $^{\circ}\text{C}$ ,  $T$  is free air temperature in  $^{\circ}\text{C}$ , and  $w$  is mixing ratio in grams/kilogram. For purposes of thickness computation, use the mean temperature of the layer for  $T$  and use the mean mixing ratio of the layer for  $w$ .

Black dots ● along wind scale lines indicate the levels for which wind data are reported and plotted. The open circles ○ indicate the mandatory pressure levels at which wind data are also entered.

## ROAB ANALYSIS

	03Z	12Z
FRZG LVL		




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UNITED STATES AIR FORCE, ST. LOUIS 18, MO.

NOVEMBER 1954 (ACIC)

Revised MARCH 1960

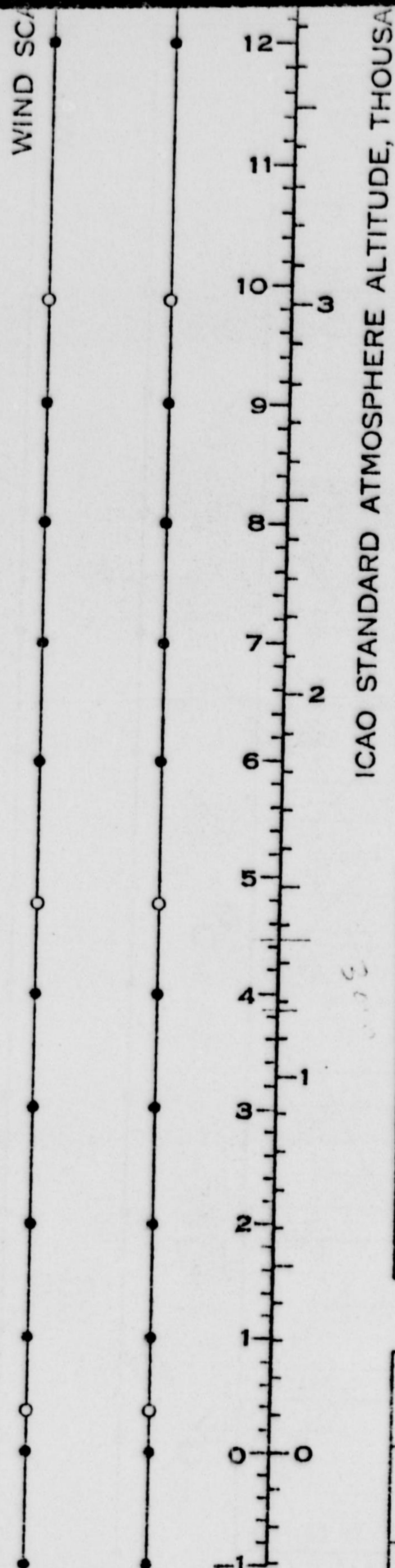
BASE 110



Necessary corrections and additions to this chart will be submitted directly to: HEADQUARTERS, AIR WEATHER SERVICE, ATTENTION: AWSOP/STDS, SCOTT AIR FORCE BASE, ILLINOIS.



RE SCALE



STAB. INDEX

L. C. L.

C. C. L.

SOULX ST. MARIE

STATION

0000Z / 12 SEP 67

LOCAL DATE-TIME, MONTH, YEAR

Z-DATE-TIME

PLOTTER

STATION

LOCAL DATE-TIME, MONTH, YEAR

Z-DATE-TIME

PLOTTER

STATION

LOCAL DATE-TIME, MONTH, YEAR

Z-DATE-TIME

PLOTTER

Form: AWS WPC 9-16

Litho ACIC 8-60

DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS 507TH FIGHTER WING (AIR DEFENSE) (ADC)  
KINCHELOE AIR FORCE BASE, MICHIGAN 49786



REPLY TO  
ATTN OF: 507WG-CIO

28 September 1967

SUBJECT: UFO Message of 12 Sep 67.

TO: FTD (TD-ET/UFO)  
Wright-Patterson AFB, Ohio 45438

1. Reference telecon of 26 September 1967.
2. To clarify my message of 12 Sep 67 on the UFOs that were picked up on Kincheloe AFB RAPCON:

a. Between the hours of 0342Z and 0501Z, a total of seventeen (17) Unidentified Flying Objects (UFOs) were sighted by SSgt Michael Burns on the MPN-14 radar at the RAPCON site here. My message only indicates sixteen (16) UFOs, but according to Sergeant Burns there were 17 (he must have skipped one when he was reporting the series of sightings to me over the telephone on 12 Sep 67).

b. On two (2) instances there were two (2) UFOs on the scope at one time. First, at about 0415Z, (items e and f under B.3 in my message), one UFO at 230 degrees tracking 030 degrees for twenty miles and then changed its heading to 360 degrees. At the same time another UFO at 280 degrees tracking 100 degrees for 20 miles turned to 180 degrees where it met the other about 30 miles due west of Kincheloe. The two then proceeded side by side on a eastbound course at 2000 mph.

c. The other instance of two UFOs on the scope at one time occurred at 0500Z (items 6a and 6b in my message). These two UFOs did not fly together or intercept each other like the two UFOs did at 0415Z.

3. If there should be any other questions please do not hesitate to call.

*Terrance E. Leaman*  
TERRANCE E. LEAMAN, 2nd Lt., USAF  
Information Officer

DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS 507TH FIGHTER WING (AIR DEFENSE) (ADC)  
KINCHELOE AIR FORCE BASE, MICHIGAN 49786



3 October 1967

REPLY TO  
ATTN OF: 507WG-CIO

SUBJECT: UFO

TO: FTD (TD-ET/UFO)  
Wright-Patterson AFB, Ohio 45438

1. Reference your telephone call of 28 September 1967.

2. My original message should answer the majority of  
your questions.

a. Time the UFOs were sighted? The times of the  
16 UFO sightings are listed in my message.

b. Movements? These are all stated in my message.

c. Time on scope? All targets were on the radar  
scope for 20 to 60 seconds. The strength of these  
target returns were equivalent to a B-52. The slash on  
the scope was somewhat larger however.

d. Speed? The speed of the UFO targets varied any-  
where between 150 and 2000 mph.

e. Noise? None. The UFOs were not visually observed.

f. Yes, this area is covered by SAGE.

3. Dr. Norman Levine and John Ahrens of the University of  
Colorado are here at Kincheloe investigating the incident.  
They arrived Sunday night and will fly to Duluth later  
today. They may be able to answer most of your questions  
better than I.

*Terrance E. Leaman*  
TERRANCE E. LEAMAN, 2nd Lt., USAF  
Information Officer