PROJECT 10073 RECORD CARD

1. DATE
15 February 1954

2. LOCATION
Greenville, North Carolina

3. DATE-TIME GROUP
Local _____
GMT 16/0200Z (Night)

4. TYPE OF OBSERVATION
☒ Ground-Visual ☐ Ground-Radar
☐ Air-Visual ☐ Air-Intercept Radar

5. PHOTOS
☐ Yes
☒ No

6. SOURCE
civilian

7. LENGTH OF OBSERVATION
10 seconds

8. NUMBER OF OBJECTS
one

9. COURSE

12. CONCLUSIONS
☐ Was Balloon
☐ Probably Balloon
☐ Possibly Balloon
☐ Was Aircraft
☐ Probably Aircraft
☐ Possibly Aircraft
☐ Was Astronomical Meteor
☒ Probably Astronomical
☐ Possibly Astronomical
☐ Other _____
☐ Insufficient Data for Evaluation
☐ Unknown

10. BRIEF SUMMARY OF SIGHTING
Solid ball with parallel tails - brilliant orange color

11. COMMENTS
Fireball meteor with some error in time.

ATIC FORM 329 (REV 26 SEP 52)

AF FORM 112—PART I
APPROVED 1 JUNE 1948

(CLASSIFICATION)

COUNTRY	REPORT NO.	(LEAVE BLANK)
U.S.A.	TAC IR 1-54	

AIR INTELLIGENCE INFORMATION REPORT

SUBJECT: UFOB

AREA REPORTED ON	FROM (Agency)
Greenville, South Carolina	Hq 63d TC Grp (H), DAFB, Greenville, S.C.

DATE OF REPORT	DATE OF INFORMATION	EVALUATION
26 February 1954	15 February 1954	C 2

PREPARED BY (Officer)	SOURCE
Captain Joseph C. Sheelar, USAF, Int Off	Interrogation of the observer.

REFERENCES (Control number, directive, previous report, etc., as applicable)
AFR 200-2, 200-2A

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.*)

In approximately HE 3854 (GEOREF) at 1602002Feb54, Mrs. [redacted] saw "a solid ball with twin parallel tails", brilliant orange in color, darting across the sky. Length of observation was approximately ten seconds.

Due to coincidence of sighting report by an AC&W unit in this area, at approximately the same time, this report could possibly be true.

JOSEPH C. SHEELAR
Capt., USAF
Intelligence Officer

LIBRARY SUBJECT & AREA CODES

Vortex

2 INCLS.
Att #1 Sketch
WAC 409 (Annotated).

DISTRIBUTION BY ORIGINATOR - 1B
1 cy D/I, Hq USAF, Washington 25, D.C.
1 copy on file Int Section, Hq 63d Trp Car Gp (H), DAFB, Greenville, S.C.

ATIC 17825

AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	
Hq 63d TC Gp (H), DAFB, Greenville, South Carolina	TAC IR.1-54	PAGE 2 OF 4. PAGES

1. Description of the object:

a. Solid ball with twin parallel "tails". (see Attachment #1)

b. About size of a tea-cup saucer approximately 3½ in. in diameter.

c. Brilliant orange color.

d. One (1) object.

e. N/A

f. Negative.

g. Two (2) parallel, heavy propellent streams or "tails" observed. Length of the tails approximately 3 to 4 times diameter of object. Width of each tail approximately ¼ diameter of object.

h. Negative sound heard.

i. "Tails" remained constant in width and length, and appeared to have the characteristic breakup of a jet propellent stream only at the extreme end of the "tails".

2. Description of course of object:

a. Woman was scanning sky for pilot husband possibly returning from night flight. Brilliant color flash of tails, plus outline of the object in the clear moonlight, caused closer attention by the observer.

b. Angle of elevation unknown, and azimuth approximately 058° when first observed.

c. Angle of elevation slightly higher although still unknown, and azimuth still approximately 058° upon disappearance.

d. Negative definite maneuvers observed, but flight path of the object consisted of darting movement, rather than a steady course as conventional aircraft would fly.

e. Object disappeared from observer's sight when she turned to call her friend's attention to the object. Turning back, neither she nor her friend could observe the object in sight.

f. Length of time in sight was approximately ten (10) seconds.

3. Manner of observation:

a. Ground-visual.

b. Negative optical aids used.

c. N/A.

AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	
Hq 63d TC Gp (H), DAFB, Greenville, South Carolina	TAC ILR 1-54	PAGE 3. OF 4. PAGES

4. Time and date of sighting:

a. 160200ZFeb54.

b. Night conditions.

5. Georef location of the observer was approximately HE 3854. (refer to WAC 409 inclosed.)

6. Identifying information:

Name: Mrs. Marylyn R. Kunkel Age: 30

Mailing address: Donaldson AFB, S.C.

Occupation: Housewife (Wife of Colonel [redacted], USAF, [redacted] (M), DAFB, S.C.)

Estimation of reliability: In distances - poor
Colors and shapes - accurate
Veracity - unquestionable

7. Weather and winds aloft conditions at time and place of sighting:

a. Observer said night was clear except for a few scud clouds and some very low clouds on the horizon. Almost a full moon.

b.

	Wind Direction	Velocity
Surface	180°	5K
6,000'	230°	20K
12,000'	220°	25K
16,000'	240°	20K
20,000'	200°	15K
30,000'	270°	40K
40,000'	300°	40K
50,000'	Unknown	

c. Ceiling: 25,000' scattered.

d. Visibility: 10 miles.

e. Amount of cloud cover: 2/10 cirrus.

f. Negative thunderstorms in area and quadrant in which located.

8. There were negative weather balloons, unusual activities, or conditions meteorological, astronomical, or otherwise, which might account for the sighting.

9. The observer has negative physical evidence of the sighting.

10. N/A.

AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	
Hq 63d TC Gp (H), DAFB, Greenville, South Carolina	TAC IR.1-54	PAGE 2 OF 4. PAGES

1. Description of the object:

a. Solid ball with twin parallel "tails". (see Attachment #1)

b. About size of a tea-cup saucer approximately 3½ in. in diameter.

c. Brilliant orange color.

d. One (1) object.

e. N/A

f. Negative.

g. Two (2) parallel, heavy propellent streams or "tails" observed. Length of the tails approximately 3 to 4 times diameter of object. Width of each tail approximately ¼ diameter of object.

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b. Angle of elevation unknown, and azimuth approximately 058° when first observed.

c. Angle of elevation slightly higher although still unknown, and azimuth still approximately 056° upon disappearance.

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e. Object disappeared from observer's sight when she turned to call her friend's attention to the object. Turning back, neither she nor her friend could observe the object in sight.

f. Length of time in sight was approximately ten (10) seconds.

3. Manner of observation:

a. Ground-visual.

b. Negative optical aids used.

c. N/A.

AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	PAGE 4. OF 4. PAGES
Hq 63d TC Gp (H), DAFB, Greenville, South Carolina	TAC IR 14-54	

11. The observer saw negative other aircraft during the period of observation and afterward. Checking further, there were negative Donaldson Air Force Base aircraft in the air, in the area, at the time of the sighting.

12. Preparing officer: Captain Joseph C. Sheelar

Position title: 63d T.C. Gp. Intelligence Officer

Preliminary analysis of the possible cause of the sighting: Above named person was visiting friends and at the time of the sighting was just leaving for home. Due to the clearness of the night and the full moon, the observer was looking at the sky when sighting was made. The length of time of observation precluded her getting her friends to see the object in time.

Comments: Sightings were reported on 15 February 1954 but notification of such was forwarded to our department at 1630Z on 23 February 1954. Thoroughness of investigation was limited due to the length of time between sightings and notification to our department of same.

This case includes
three (3) Aeronautical charts

WORLD AERONAUTICAL CHART INDEX

Scale of Series 1:1,000,000

AERONAUTICAL SYMBOLS

RADIO FACILITIES

Radio Range (With voice)

Radio Range (Without voice)

Radio Communication Station (With voice)

Radio Communication Station (Without voice)

AZIMUTH RANGE

Landing Area

Sheltered Anchorage

TOPOGRAPHICAL

CITIES AND TOWNS

NEW YORK

CHICAGO


UNIVERSAL WATER CHARTS
TOPOGRAPHICAL SYMBOLS
CITIES AND TOWNS
NEW YORK
RICHMOND
HIGHWAYS AND ROADS

AERONAUTICAL CHART SUPPLY

CORRECTION INSTRUCTIONS

1. The Coast and Geodetic Survey is making

a. Mark correction on face of chart or

b. Fold chart along regular fold lines but with

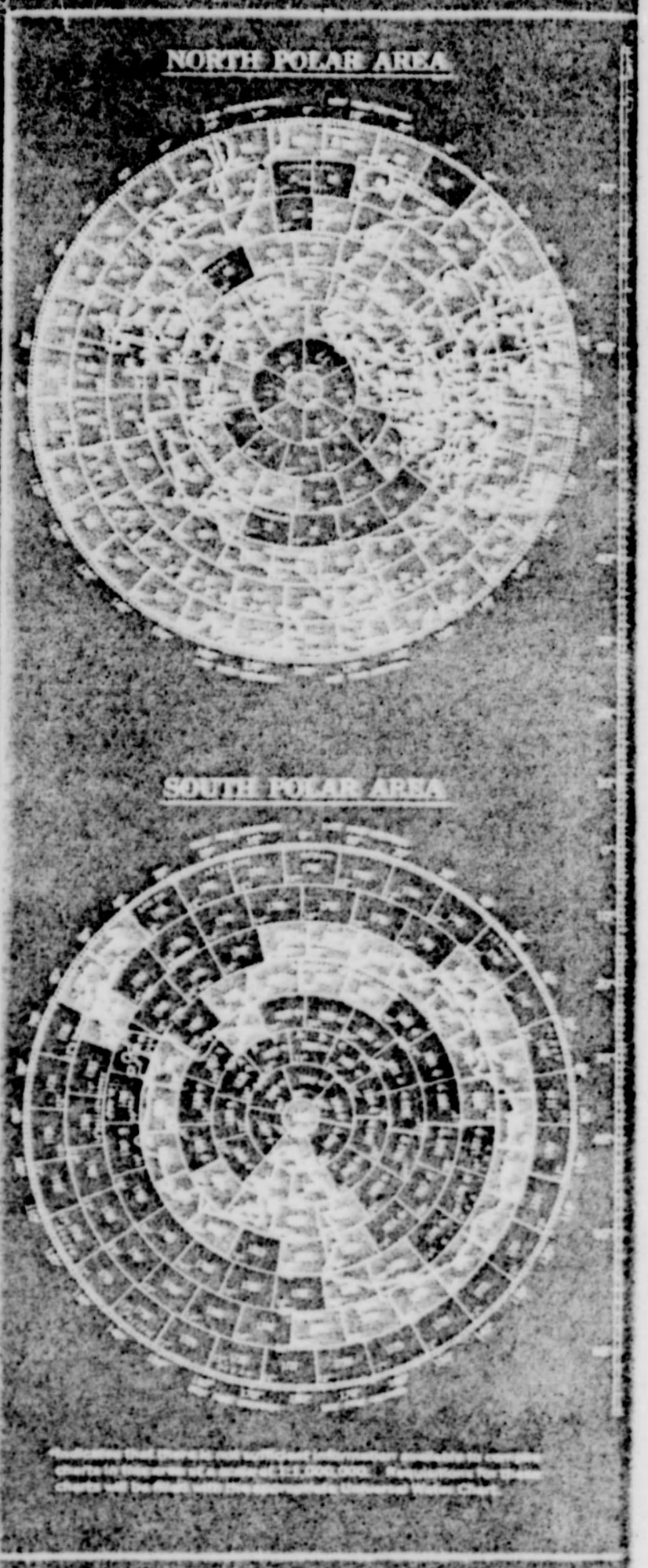
c. Make an extra fold along dotted line and staple at points as marked.

d. Fill in the return address and drop the chart in any U.S. mail box. Postage is not required.

FROM

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300

To:
The Director
U.S. Coast and Geodetic Survey
Washington 25, D.C.

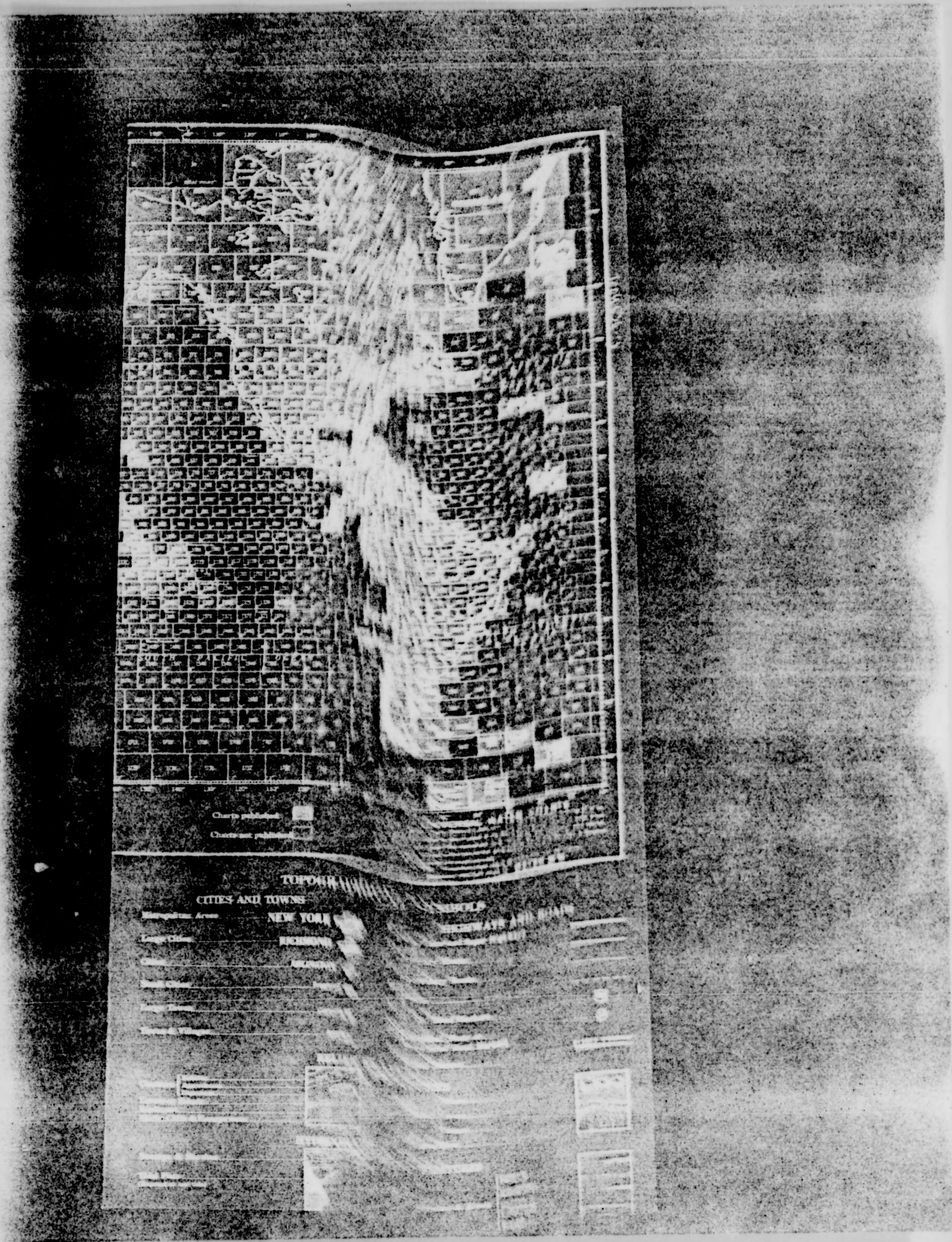


AERONAUTICAL SYMB

AERODROMES

Aerodromes with facilities
LAND
WATER
Aerodro
Land
Civil
Joint Civil and Military
Military

AERODROME DATA


TOPOGR
CITIES AND TOWNS
NEW YOR

U. S. DANGER AREAS ON WORLD AERONAUTICAL CHART 409

NO.	NAME	ACTIVITY	USING AGENCY	ALTITUDE	TIME
D-178	Chevron Engineering Works	Research and Development	U.S. Atomic Energy Commission	Unltd.	Unltd.
D-178	Redstone Arsenal	Demolition & Rocket Testing	Dept. of Army, Redstone Arsenal, Ala.	Unltd.	Unltd.
C-178	Atlanta	Aerodrome	NOAA Atlanta, Ga.	Above 8,500	0600-1800
D-178	Fort Jackson	Small Arms, Artillery and Antiaircraft Firing	Fort Jackson, S.C.	To 40,000	Unltd.
C-178	Cross	Pilot Training	Craig AFB, Selma, Ala.	To 10,000	VFR 0700-2300
C-177	Cross	Pilot Training	Craig AFB, Selma, Ala.	Unltd.	VFR 0700-2300
D-178	Camp Gordon	Small Arms and Artillery Firing	Dept. of Army, Camp Gordon, Augusta, Ga.	To 1,500	0700-1900 Mon.-Sat.
D-178	Fort Benning	Antiaircraft & Artillery Firing	Army Ground Forces, Fort Benning, Ga.	To 40,000	Unltd.
D-178	Fort McClellan	Infantry Weapons Firing	3rd Army, Ft. McClellan, Ala.	To 30,000	Unltd.
D-178	Fort McClellan	Artillery Firing	3rd Army, Ft. McClellan, Ala.	To 40,000	Unltd.
W-178	Charleston	Antiaircraft & Rocket Firing on Towed-Sleeve Targets	Dept. of Navy, Atlantic Fleet Mine Force, Charleston, S.C.	To 35,000	Unltd.
D-178	Camp Rucker	Antiaircraft Firing	3rd Army and Natl. Guard Units	To 40,000	Unltd.
C-178	Birmingham	Aerobatics and Formation Flying	USAF Headquarters, 214th AF Reserve Training Center & Alabama Air Nat'l. Guard	8,000-10,000; 18,000-19,000	
R-4105	Savannah River		U.S. Atomic Energy Commission	Unltd.	Unltd.
D-1304	Moss AFB	Land Research, Bombing & Rocketry	Moss AFB, S.C.	To 25,000	Daytime Hours-2 Hrs. Prior Notice
D-178	Camp Gordon	Small Arms & Artillery Firing	Dept. of Army, Camp Gordon, Augusta, Ga.	Unltd.	Unltd.

Altitude given in feet. AR - Airspace Reservation (Prohibited) C - Caution D - Danger W - Warning 2-6-57

No person shall operate an aircraft within an Airspace Reservation or Danger Area unless permission for such operation has been issued by the appropriate authority.

Aircraft are not restricted from flying through Caution Areas however, extreme caution should be exercised by pilots flying through such areas.

Rotating Light: ..... Flashing

Rotating Light: (White flashing code Beacon) ..... Yellow

Rotating Light: (White course lights and ... also combined) ..... Blue/Green

Flashing Light: ..... W (Red)

F — Fixed Qk.Fl — Quick Flashing

Fl — Flashing I.Qk.Fl — Interrupted Quick Flashing Occ — Occultating Alt — Alternating

Harbor lights are white unless colors are indicated, alternating lights are

MISCELLANEOUS

Obstructions, less than 200 feet above ground ..... Daytime

Obstructions, 200 feet or higher above ground ..... Night

(Numerals indicate elevation above mean level of land)

Group Obstructions ..... Daytime

Prominent Transmission Line ..... Orange

Mooring Mast ..... Orange

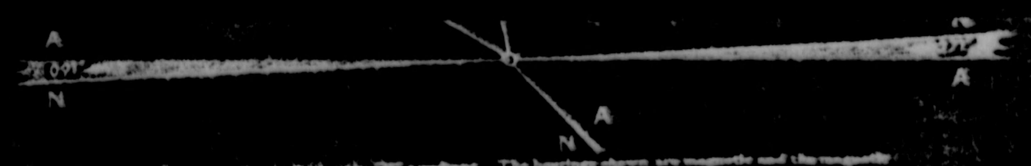
Isogonic Line ..... Interval

Restricted areas are numbered, and are indicated on the

Prohibited Areas, Unmanned

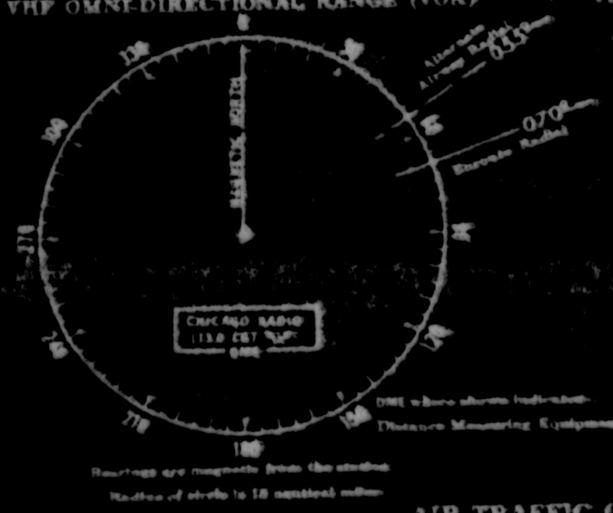
Danger, Restricted or Warning

Caution Areas, Unmanned or

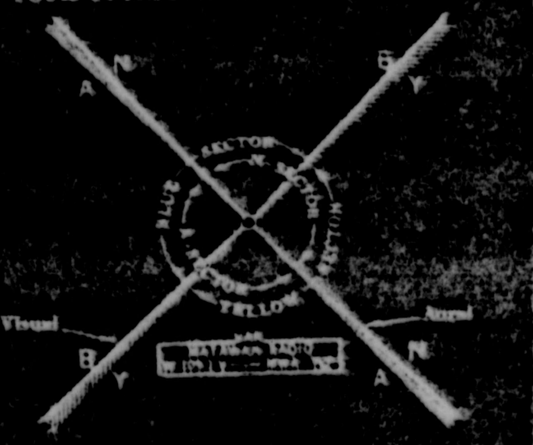


The bearings then indicate the "N" quadrant. The bearings shown are magnetic and the magnetic variation at the position of the ground station is used for computing them.

VHF OMNI-DIRECTIONAL RANGE (VOR)



VHF FOUR COURSE VISUAL-AURAL RANGE (VAR)



Radio preceding frequency in four radio-channel Federal stations.

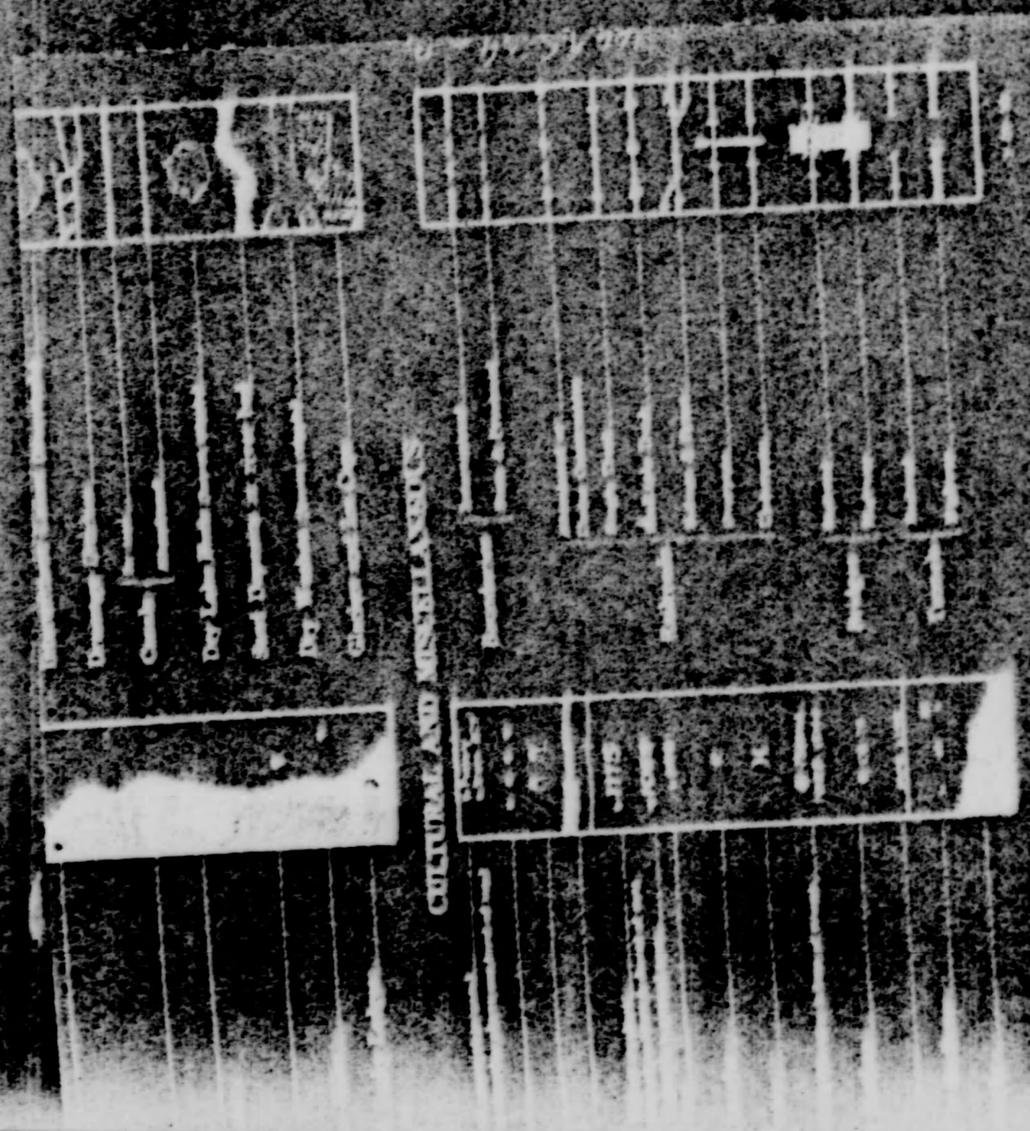
AIR TRAFFIC CONTROL

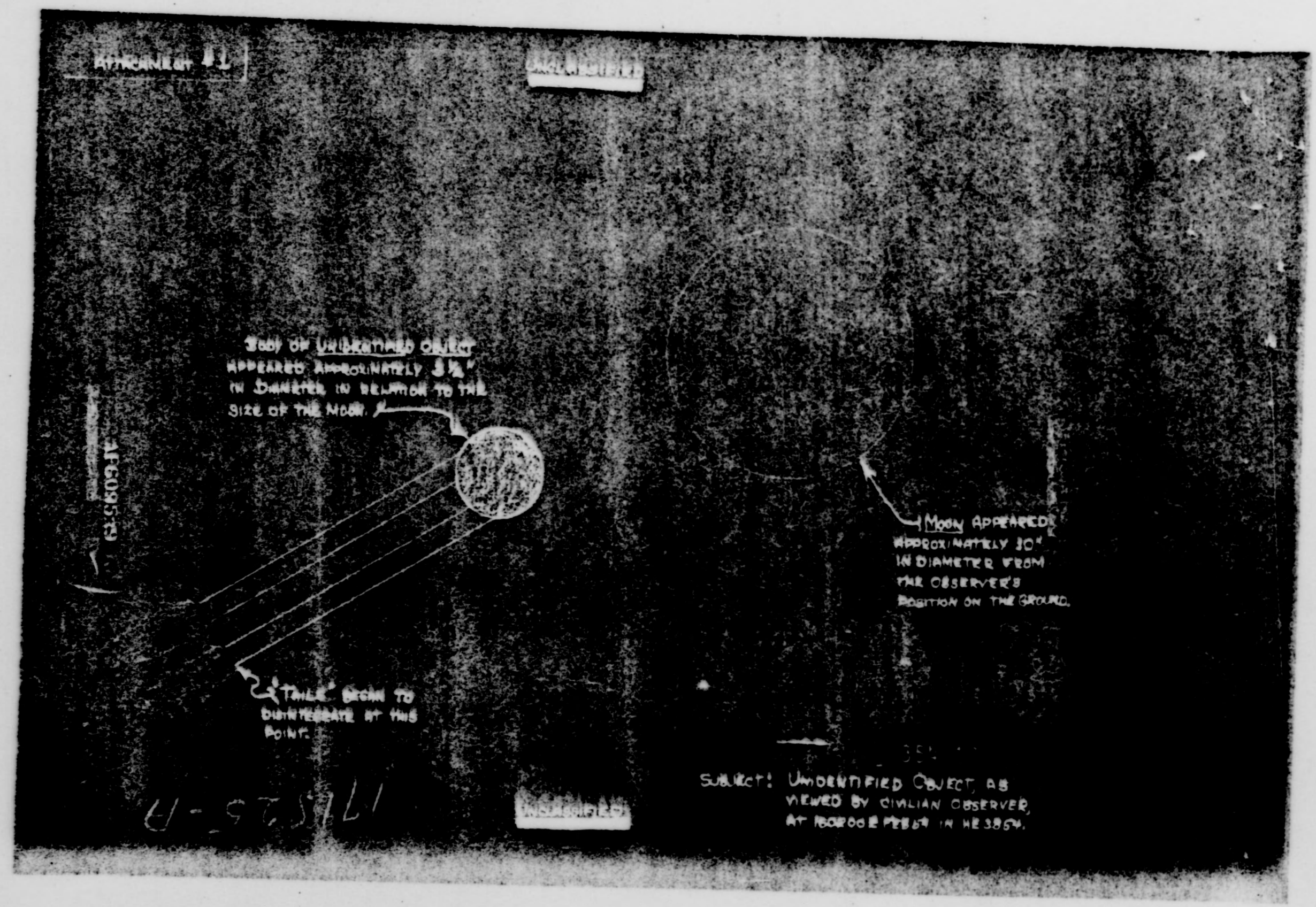




CULTURAL AND



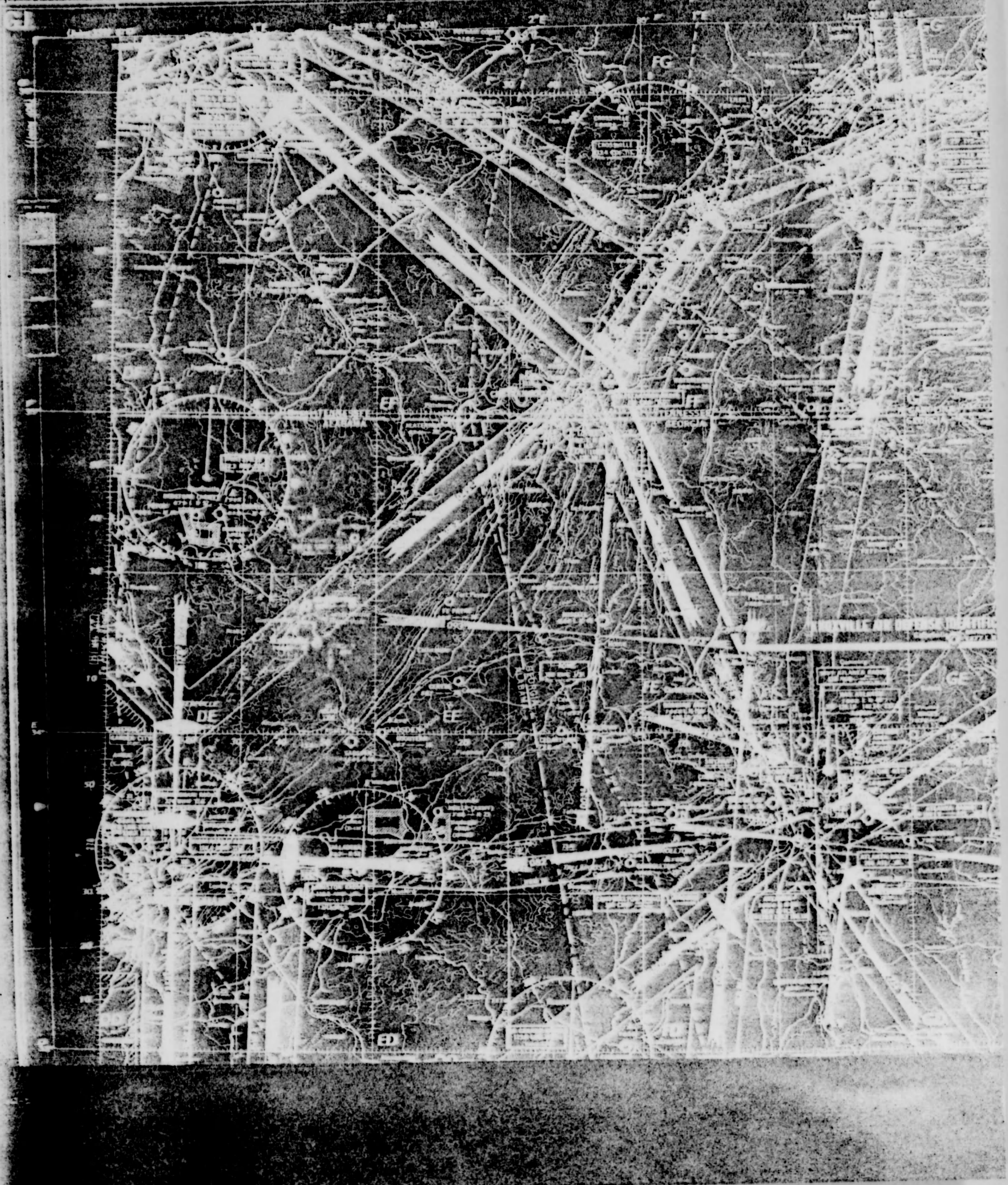



ATTACHMENT #1
UNCLASSIFIED
BODY OF UNIDENTIFIED OBJECT APPEARED APPROXIMATELY 3½" IN DIAMETER IN RELATION TO THE SIZE OF THE MOON.
MOON APPEARED APPROXIMATELY 30" IN DIAMETER FROM THE OBSERVER'S POSITION ON THE GROUND.
"TAILE" BEGAN TO DISINTEGRATE AT THIS POINT.
SUBJECT: UNIDENTIFIED OBJECT, AS VIEWED BY CIVILIAN OBSERVER, AT 1600 OCT FEB 64 IN HE 3854.
UNCLASSIFIED

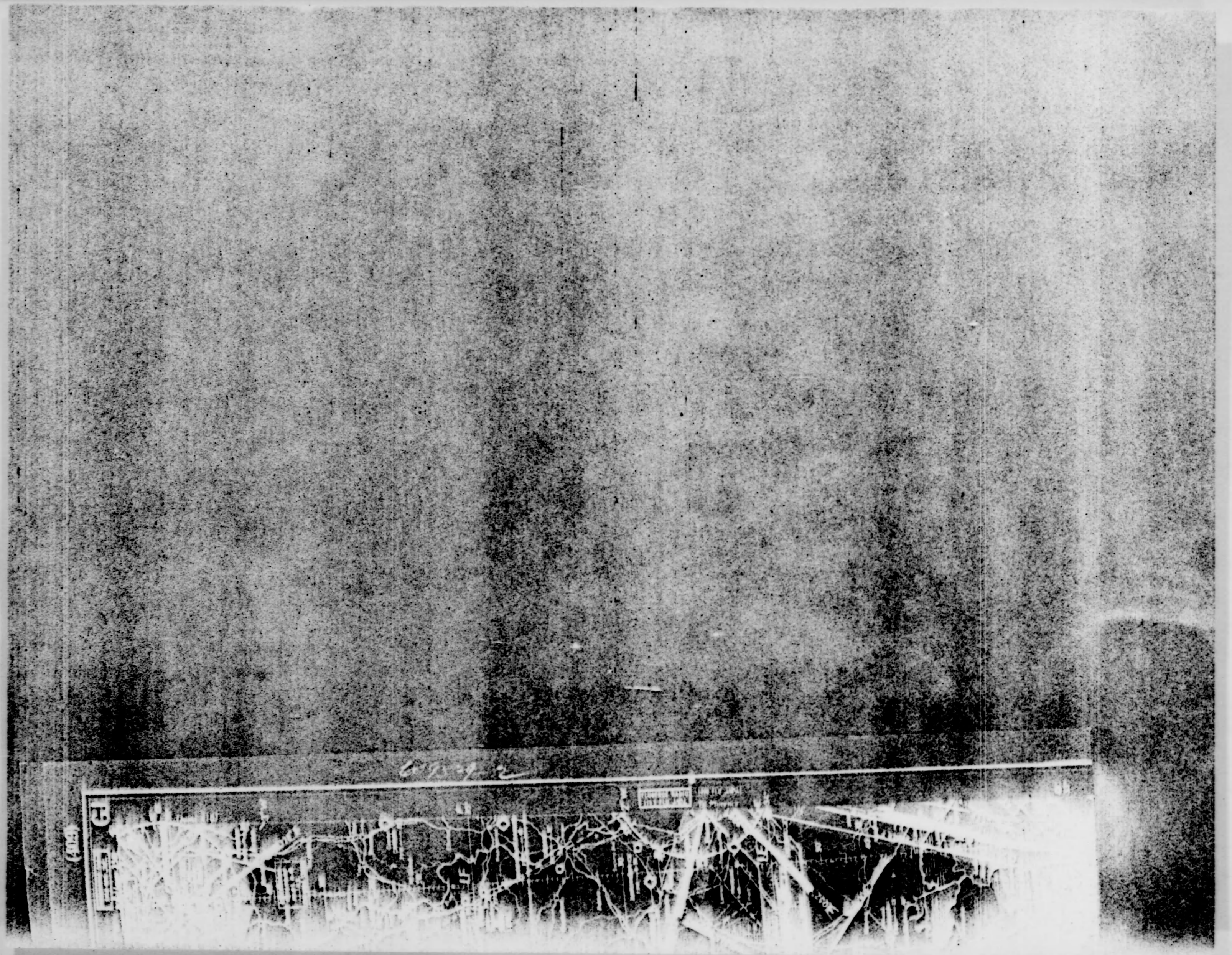
(409) GREAT SMOKY MTS

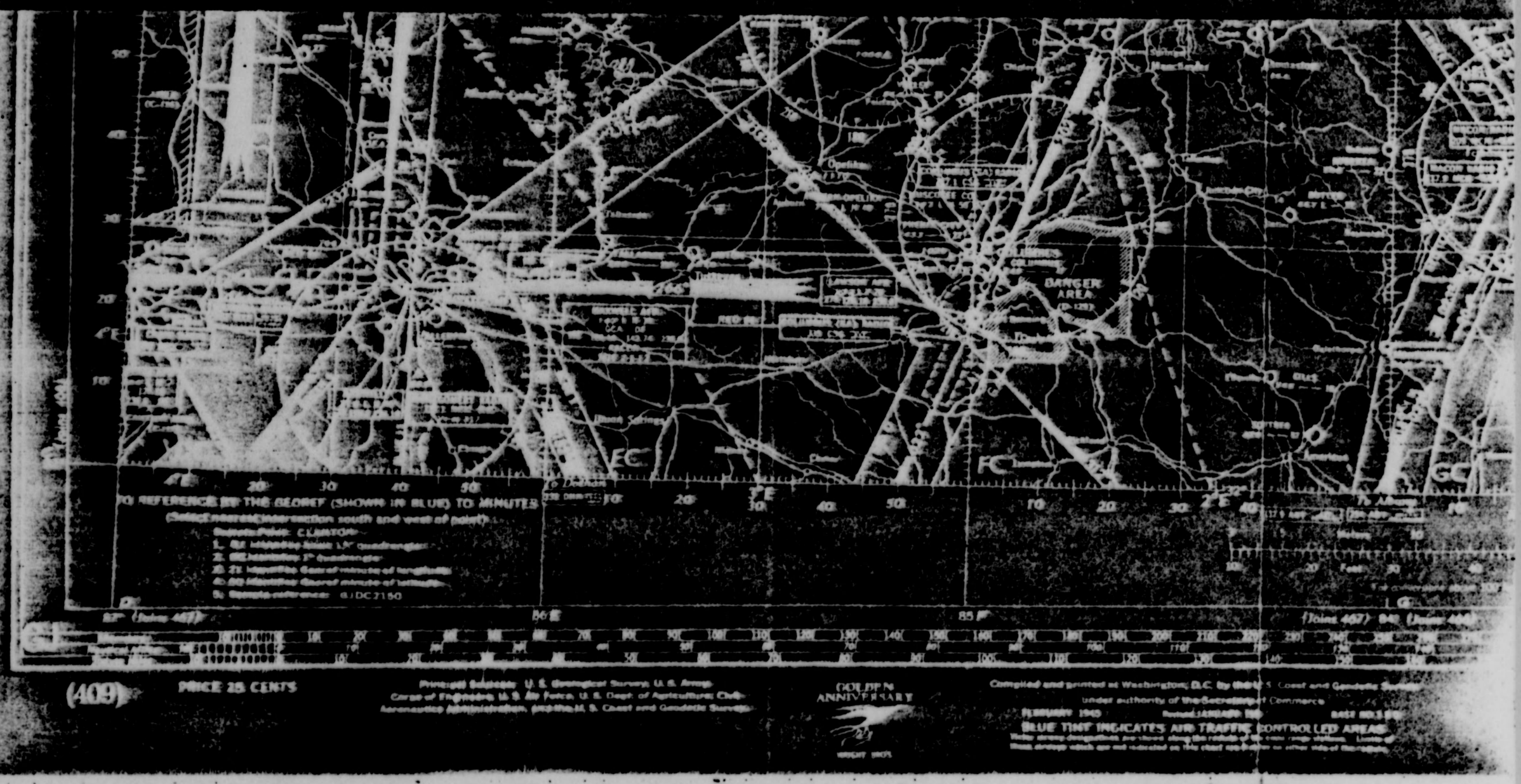
ELEVATIONS IN FEET

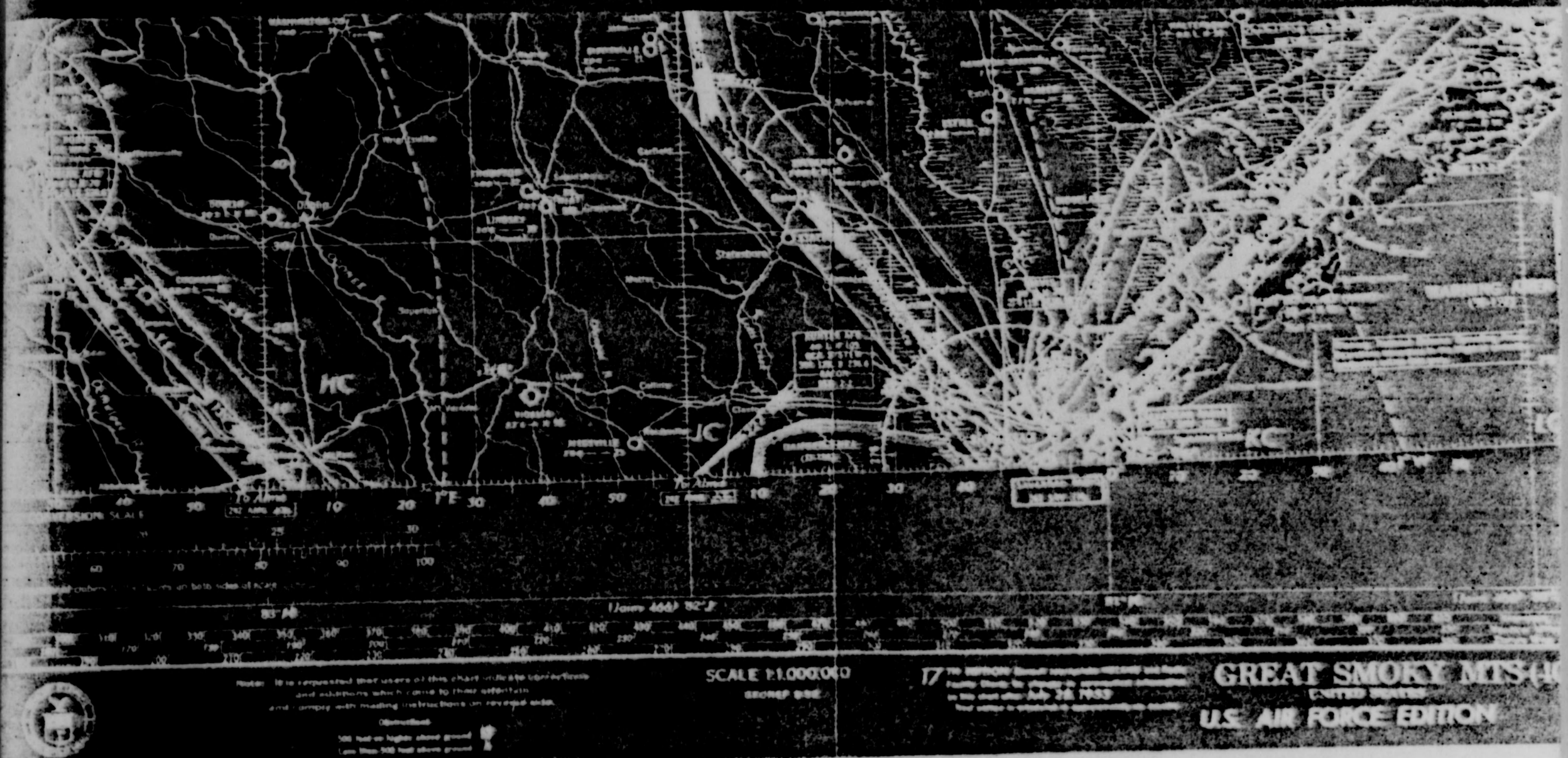
WORLD AER

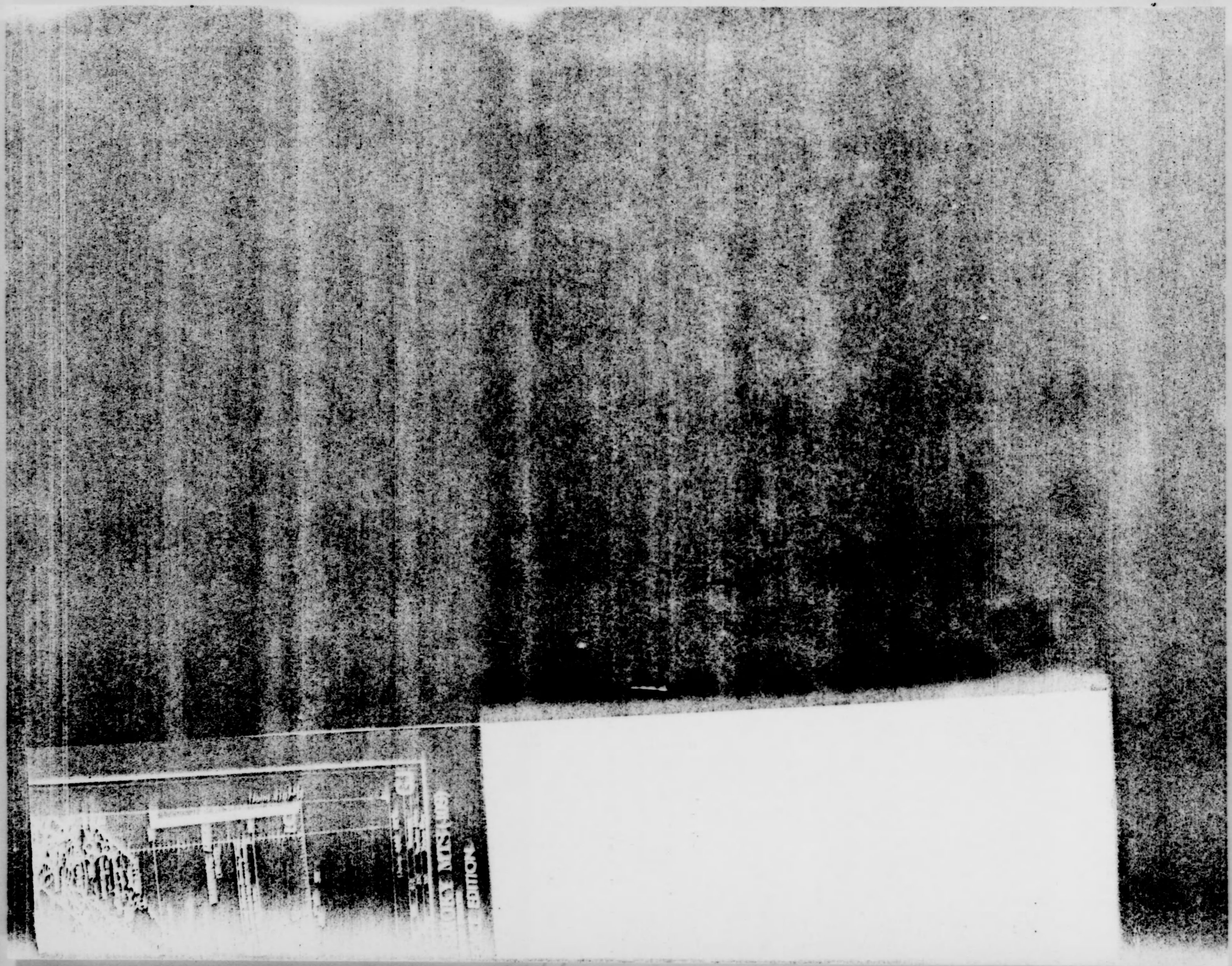



AUTICAL CHART
HG
HF
HE
JE
HD
Clarks Hill Res




DANGER AREA
(D-123)
TO REFERENCE BY THE GEORET (SHOWN IN BLUE) TO MINUTES
(Select nearest intersection south and west of point)
Example: Point CLINTON
1. Name of 1° quadrangle
2. Name of 1° quadrangle
3. 21 Identifies Secret minute of longitude
4. 60 Identifies Secret minute of latitude
5. Grid reference: 6JDC7150
(Joint 407)
(Joint 407)
(409)
PRICE 25 CENTS
Principal Sources: U. S. Geological Survey; U. S. Army Corps of Engineers; U. S. Air Force; U. S. Dept. of Agriculture Civil Aeronautics Administration; and the U. S. Coast and Geodetic Survey
GOLDEN ANNIVERSARY
WRIGHT BROS.
Compiled and printed at Washington, D.C. by the U. S. Coast and Geodetic Survey
under authority of the Secretary of Commerce
FEBRUARY 1943
BLUE TINT INDICATES AIR TRAFFIC CONTROLLED AREAS


SCALE 1:1,000,000
U.S. AIR FORCE EDITION



PROJECT 10073 RECORD

1. DATE - TIME GROUP 15 February 1954 16/0315Z(Night)	**2. LOCATION** Greenville, North Carolina
3. SOURCE Military	**10. CONCLUSION** Other: Radar Reflection
4. NUMBER OF OBJECTS 1	
5. LENGTH OF OBSERVATION 21 Minutes	**11. BRIEF SUMMARY AND ANALYSIS** Object as large as a/c
6. TYPE OF OBSERVATION Air Radar	
7. COURSE	
8. PHOTOS ☐ Yes ☒ No	
9. PHYSICAL EVIDENCE ☐ Yes ☒ No	

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

AF FORM 112—PART I
APPROVED 1 JUNE 1948

[redacted]

UNCLASSIFIED

COUNTRY	REPORT NO.	(LIBRARY USE ONLY)
U. S. A.	TAC IR 2-54	AF 609540

AIR INTELLIGENCE INFORMATION REPORT

SUBJECT
UFOB

AREA REPORTED ON	FROM (Agency)
Greenville, South Carolina	Hq 63d TC Gp (H), DAFB, Greenville, S. C.

DATE OF REPORT	DATE OF INFORMATION	EVALUATION
26 February 1954	15 February 1954	A 2

PREPARED BY (Officer)	SOURCE
Captain Joseph C. Sheelar, USAF, Int Off	Interrogation of the observer

REFERENCES (Control number, directive, previous report, etc., as applicable)
AFR 200-2, 200-2A

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 119—Part II.)

In HE 3946 (GEOREF) at 160315ZFeb54 to 160336ZFeb54, AC&W operator, S/Sgt K. A. Payne, did during the performance of his duties pick up and track an unknown target, which traveled at a very high rate of speed and violated the boundaries of a prohibited area.

LIBRARY SUBJECT & AREA CODES

JOSEPH C. SHEELAR
Capt., USAF
Intelligence Officer

DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

1 ENCLS.
WA 409 (Annotated)

w/1 encl (A)
Atlas-12
12 Apr 54

DISTRIBUTION BY ORIGINATOR:
1 cy D/I, Hq USAF, Washington 25, DC
1 cy on file Int section, Hq 63d Trp Carr Gp (H), DAFB, Greenville, S. C.
[redacted]

AIC 12167

AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	
Hq 83TC Gp, DAFB Greenville, South Carolina	TAC IR 2-54	PAGE 2 OF 4 PAGES

1. Description of object limited due to limitations of radarscope.

a. Shape: Unknown.

b. Size: Gave large "blip" return on scope.

c. Color: N/A.

d. Number: "Blip" was large enough to be interpreted as two aircraft.

e. Formation: If more than one object, they were flying very close together.

f. N/A.

g. N/A.

h. N/A.

i. Object traveled at high rate of speed.

2. Description of course of object:

a. Observer's attention called to object during course of duty, as the set picks up all "blips" within 360° of the station.

b. Object was 22,000 feet, at an azimuth of 203° from DAFB when first observed.

c. Object was 22,000 feet, at an azimuth of 110° from DAFB when it disappeared.

d. Type of maneuvers unknown; refer to WAC 409, enclosed, for a graphic description of the object's flight path.

e. Faded from scope.

f. 21 Minutes.

3. Manner of Observation:

a. Ground-electronic (radar)(MPS-7).

b. Negative other optical aids used.

c. N/A

4. Time and date of sighting:

a. 160315ZFeb54 to 160336ZFeb 54.

b. Night light conditions.

5. GEOREF location of observer is HE 3946.

NOTE. THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE ACT, 50 U. S. C.— AND 32, AS AMENDED. ITS TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	PAGE 3 OF 4 PAGES
Hq 63d TC Gp (H), DAFB Greenville, South Carolina	TAC IR 2-54	

6. Identifying information:

NAME: K. A. Payne AGE: 23

GRADE: S Sgt

ORGANIZATION: 728th AC&W Sq, 507th T. C. Gp., DAFB, SC.

Duty: AC&W operator.

Estimate of reliability: Good. No question.

7. Weather and winds aloft conditions at time and place of sighting:

a. Observer said clear moonlit night.

b.

	Wind Direction	Velocity
Surface	225°	5K
6,000	230°	20K
12,000	220°	25K
16,000	240°	20K
20,000	200°	15K
30,000	270°	40K
40,000	300°	40K
80,000	------Unknown------	

c. Ceiling: 12,000' scattered, 25,000' thin scattered.

d. Visibility: 10 Miles.

e. Amount of cloud cover: 1/10 alto cumulus; 4/10 cirrus.

f. Negative thunderstorms in area and quadrant in which located.

8. There were negative weather balloons, unusual activities or conditions meteorological, astronomical, or otherwise, which might account for sighting.

9. Physical evidence of the sighting in the form of Observer's logs, are on record in the file of 725th A.C.&W. Sqdn., DAFB, SC.

10. Action taken:

a. Negative action taken initiate interception for the following reasons:

(1) Outfit had just set up on base; didn't have an IFF unit in operation to check identity of target.

(2) There were negative intercept aircraft in the area that could be effectively scrambled against the target.

(3) There were negative air defense directives stating that aircraft should be scrambled.

this case includes
two (2) Aeronautical Charts

(103) GREAT SMOKY MTS

ELEVATIONS IN FEET

WORLD AER

GJ

FG

DF

EF

DE

EE

DD

ED

GD

AF FORM 112—PART II
APPROVED 1 JUNE 1948

(CLASSIFICATION)

(4)

AIR INTELLIGENCE INFORMATION REPORT

FROM (Airport)	REPORT NO.	PAGE 4 OF 4 PAGES
Hq. 63d TRP CARR GP, DAFB Greenville, South Carolina	TAC AIR 2-54	

b. Target was flying in a prohibited area, and Pope AFB called the 728th AC&W Sq. in relation to the same track.

11. There were negative aircraft in the area except the following: At 2215E, the observer picked up a "blip" flying airways from Columbia Airport S. C. to Augusta, Georgia. "Blip" traveling approximately 220-230 knots, at an elevation of 7,000 feet. The track of this "blip" and the track of the unidentified object merged at 2225-2226E.

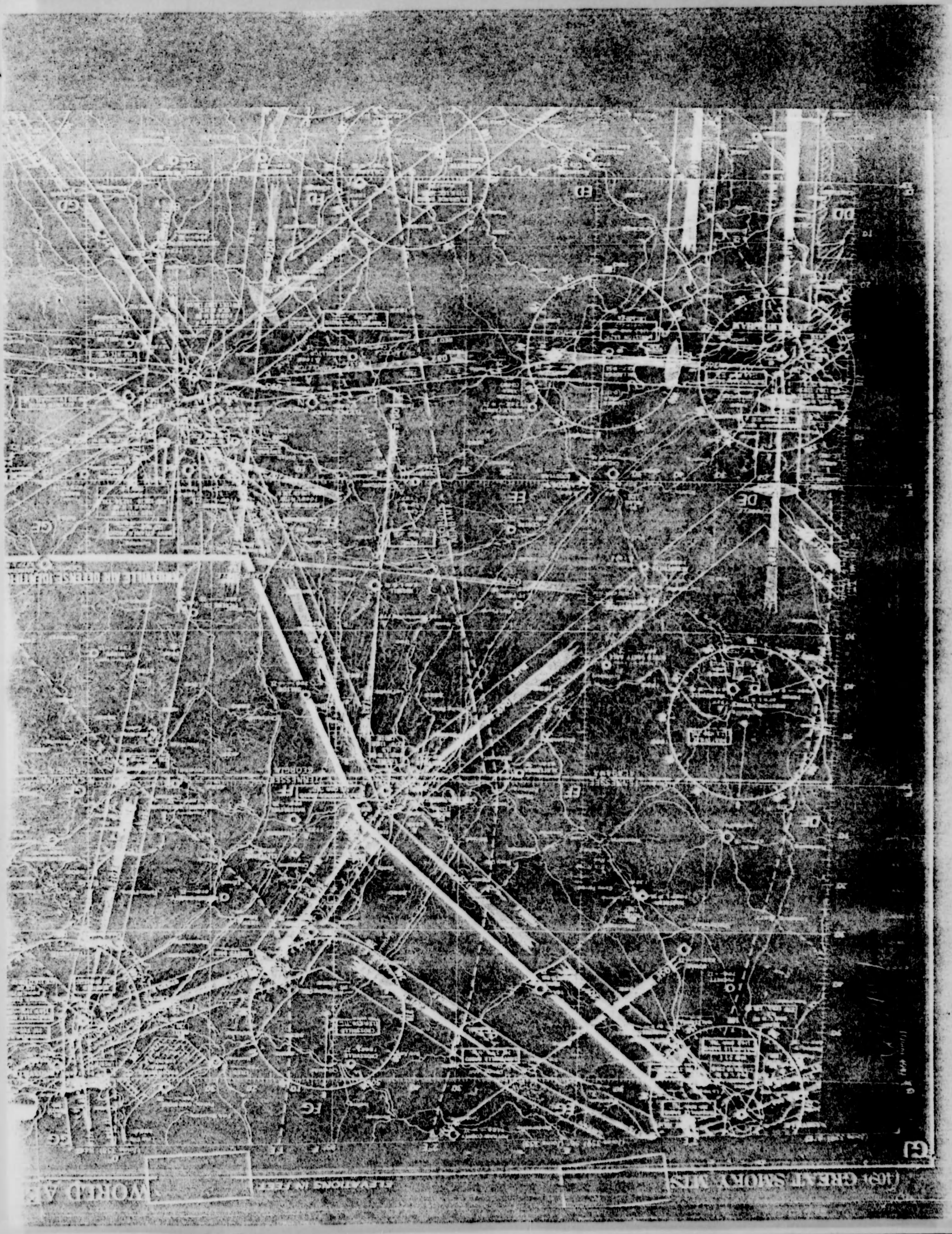
12. Preparing Officer: Captain Joseph C. Sheelar

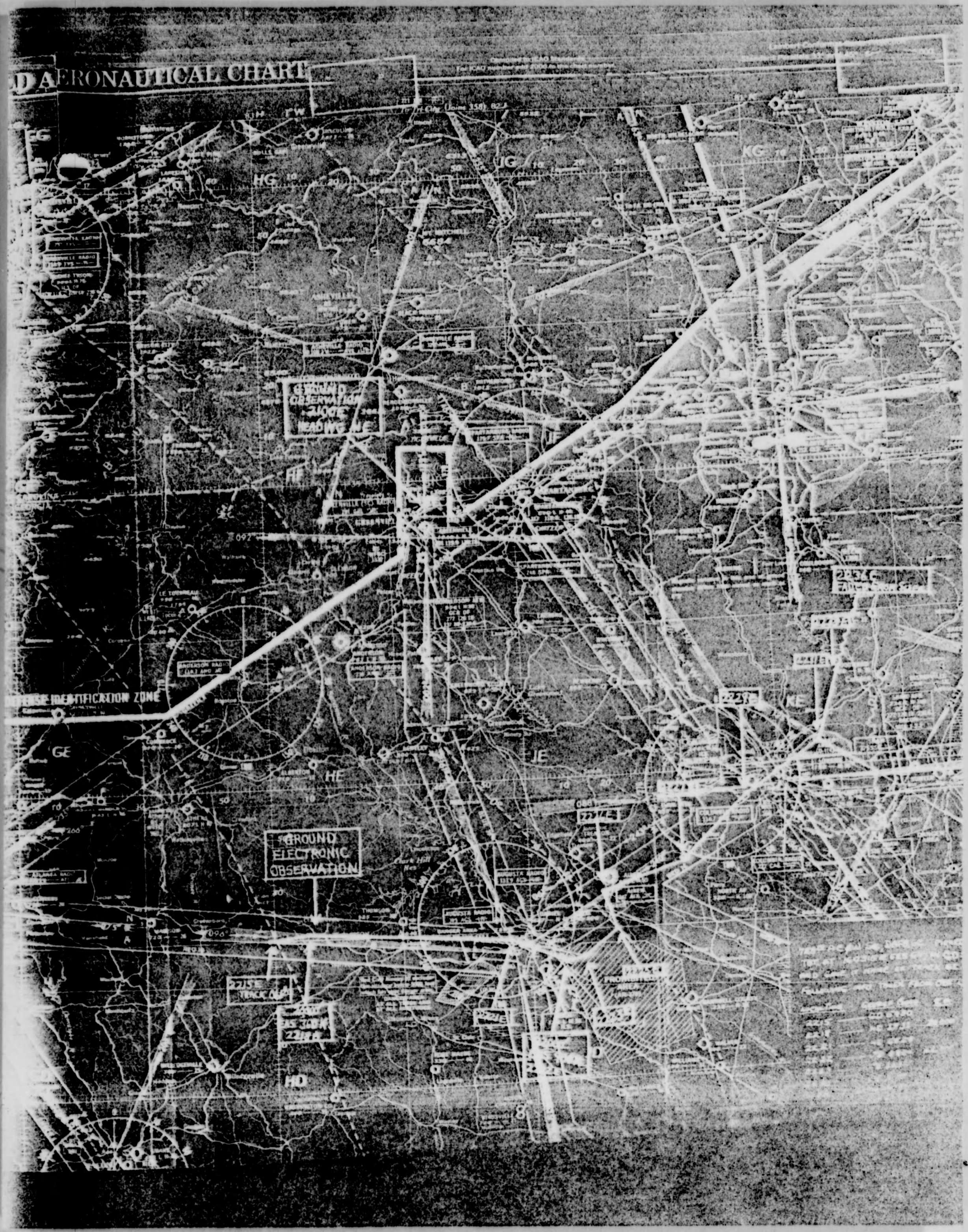
Position title: 63d T. C. Gp. Intelligence Officer.

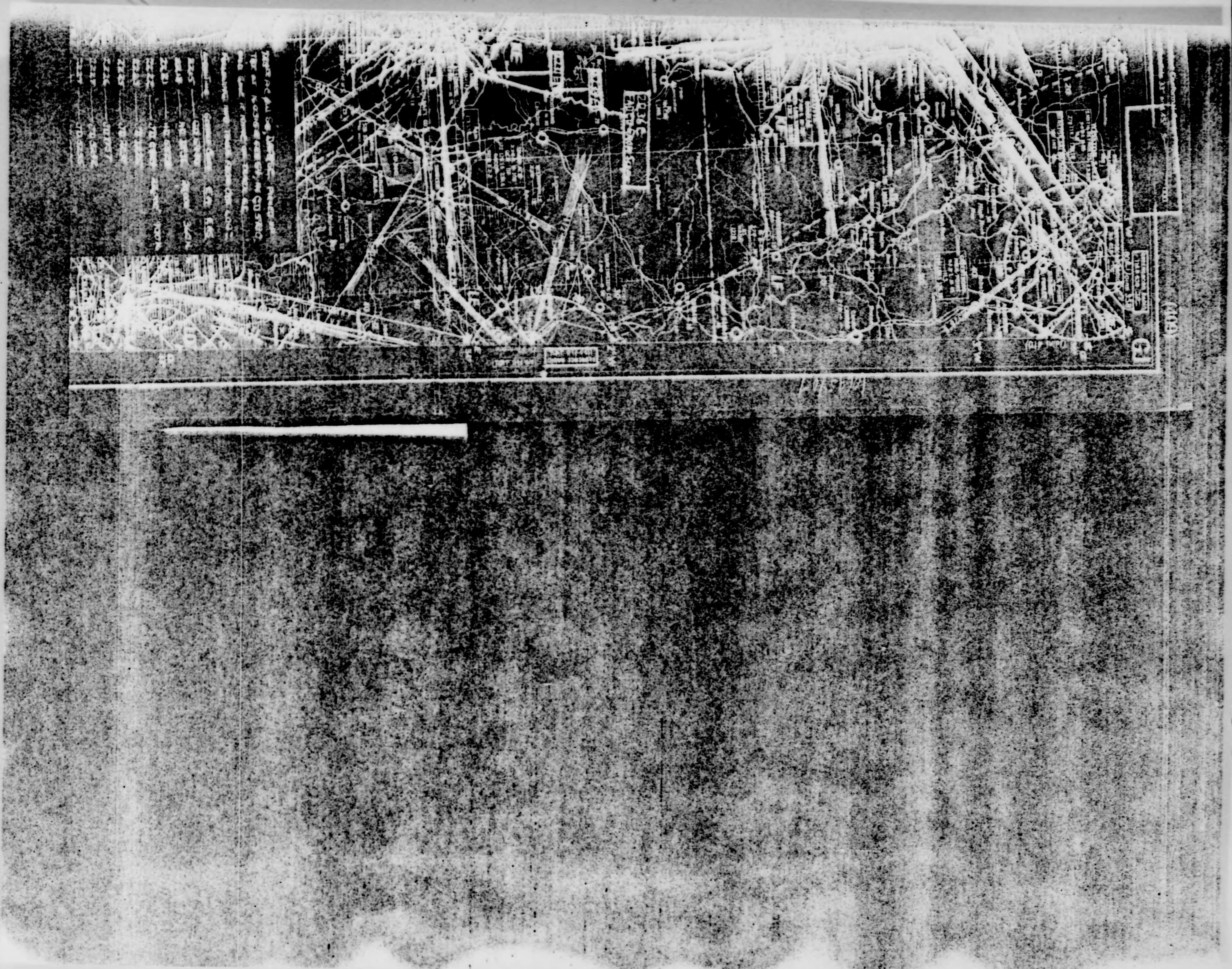
Preliminary analysis of the possible cause of the sighting:

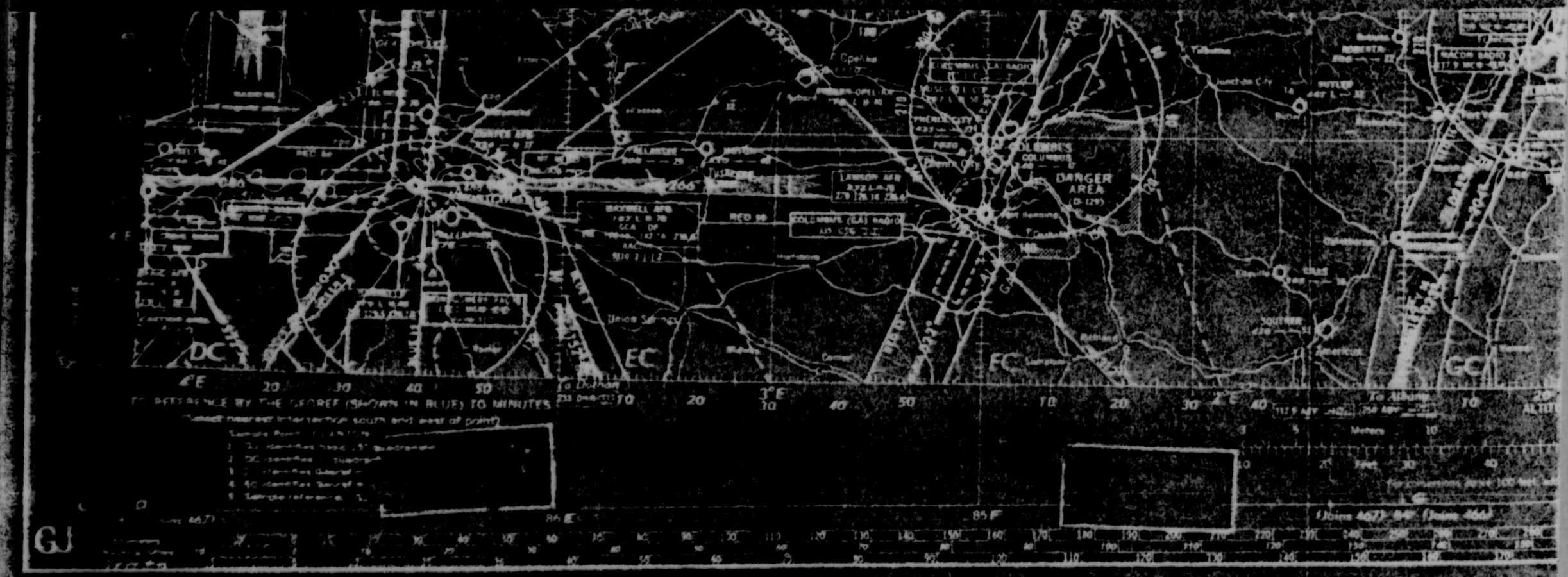
The primary cause of the sighting was through the normal duties as a radar operator in the AC&W Sq. All sightings are kept on log and this report was logged as routine but was called in when unusual performance was noted.

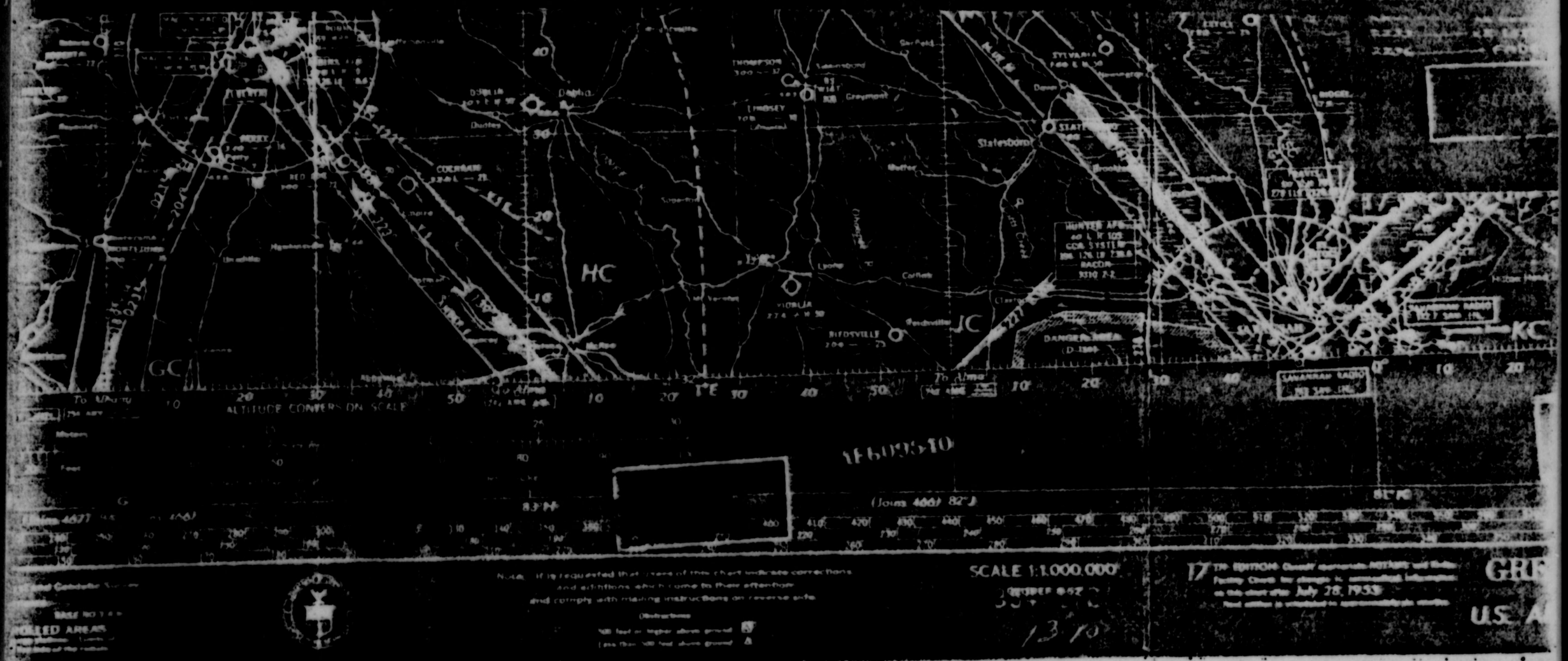
Comments: Sightings were reported on 15 February 1954 but notification of such was forward to our department at 1630 on 23 February 1954. Thoroughness of investigation was limited due to the length of time between sightings and notification to our department of same.

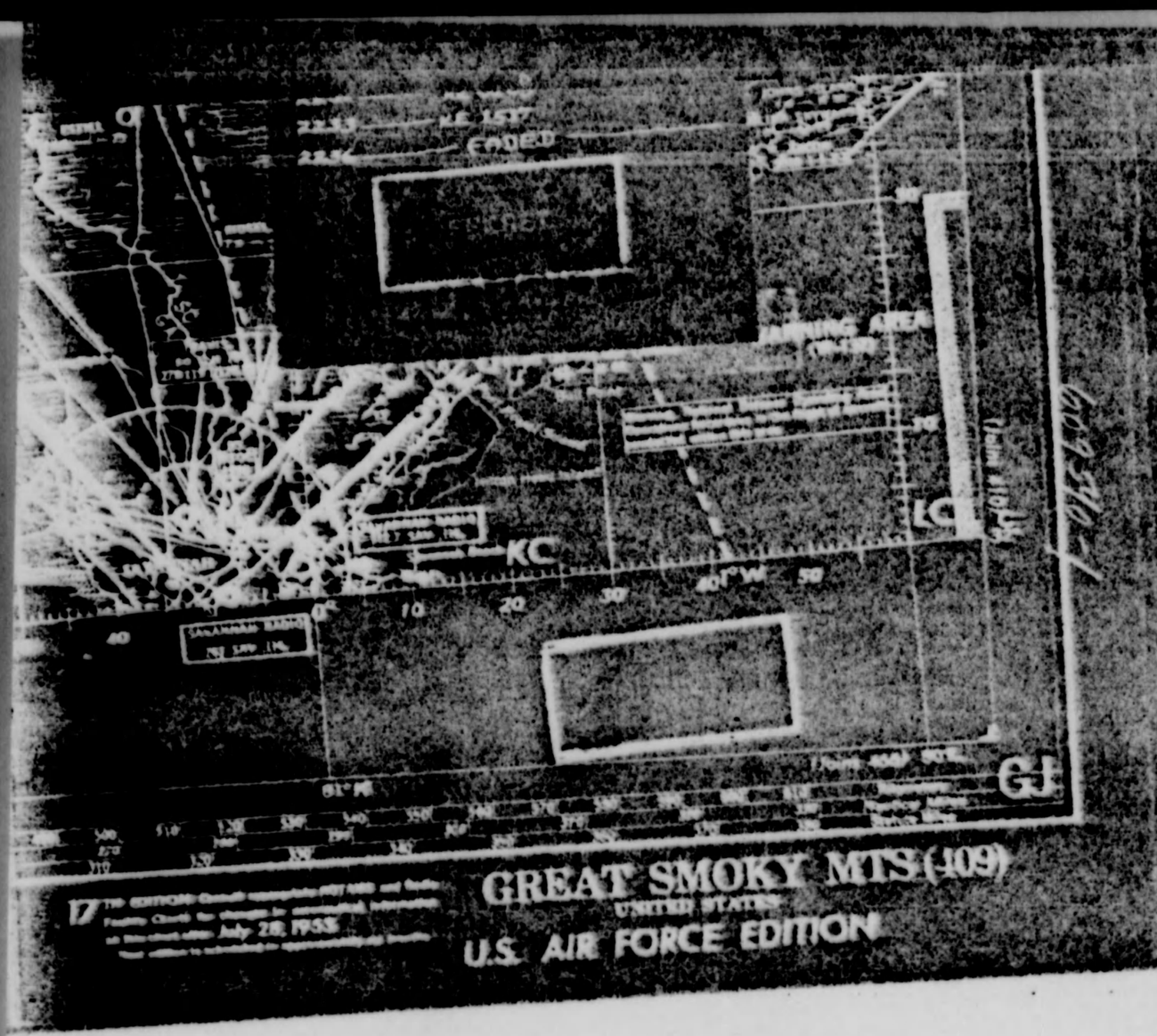



D AERONAUTICAL CHART
GROUND
ELECTRONIC
OBSERVATION




DANGER AREA
(D-129)
DC
EC
FC
GC
GJ


ALTITUDE CONVERSION SCALE
SCALE 1:1,000,000
Statesboro
Dublin
Thompson
Sylvania
Millen
Swainsboro
Vidalia
Reidsville
Metter
Glennville
Claxton
Hinesville
Waycross
Douglas
Nahunta
Brunswick
Jesup
Folkston
Kingsland
Woodbine
Fernandina
Jacksonville
Yulee
Callahan
Macclenny
Baldwin
Lake City
Live Oak
Madison
Perry
Valdosta
Quitman
Moultrie
Tifton
Cordele
Fitzgerald
Ocilla
Abbeville
Eastman
Hazlehurst
Baxley
Jesup
Waycross
Folkston
Kingsland
Woodbine
Fernandina
Jacksonville
Yulee
Callahan
Macclenny
Baldwin
Lake City
Live Oak
Madison
Perry
Valdosta
Quitman
Moultrie
Tifton
Cordele
Fitzgerald
Ocilla
Abbeville
Eastman
Hazlehurst
Baxley
GC
HC
JC
KC
To Atlanta
To Miami
83°W
82°W
Note: It is requested that users of this chart indicate corrections and additions which come to their attention and comply with marking instructions on reverse side.
Obstructions
1000 feet or higher above ground
Less than 1000 feet above ground
17TH EDITION
U.S.


KC
GJ
GREAT SMOKY MTS (409)
UNITED STATES
U.S. AIR FORCE EDITION

AERONAUTICAL CHART SUPPLY

[illegible]

MILITARY CHART SUPPLY

[illegible]

CORRECTION INSTRUCTIONS

The Coast and Geodetic Survey is making every effort to furnish the user with accurate charts. The user will materially assist in this effort by marking corrections of aeronautical information, hydrography, relief and cultural features (roads, canals, power lines, etc.) on the face of the chart, on any [illegible] and by using the "Remarks" space in the following correction, state method used by observer in making the determination.

a. Mark corrections on face of chart or under "Remarks" below.
b. Fold chart along regular fold lines, but with back out.
c. Make no extra fold along normal line and staple at corners.
d. Fill in the return address and drop the chart in any U.S. mail box. Postage is not required.

Remarks:

FROM

OFFICIAL BUSINESS
PERMIT NO. 1005

PENALTY FOR PRIVATE USE TO AVOID PAYMENT OF POSTAGE, $300

To:
The Director
U.S. Coast and Geodetic Survey
Washington, 25, D.C.

NORTH POLAR AREA

SOUTH POLAR AREA

AERONAUTICAL SYMBOLS

AERODROMES

AERODROME DATA

AIR NAVIGATION LIGHTS

WORLD AERONAUTICAL CHART INDEX

Scale of Series 1:1,000,000

Charts published

Charts not published

AERONAUTICAL SYMBOLS

RADIO FACILITIES

Radio Range (With voice)

Radio Range (Without voice)

Nondirectional Radiobeacon (Without voice)

Nondirectional Radiobeacon (Without voice)

Marine Radiobeacon (Without voice)

Radio Direction Finder (Without voice)

Radio Direction Finder (With voice)

Radio Communication Station (With voice)

Radio Communication Station (Without voice)

Radio Broadcasting Station

Radio Beacon (Range)

Radio Fan Marker Beacon

Landing Area

Sheltered Anchorage

TOPOGRAPHICAL SY

CITIES AND TOWNS

Metropolitan Areas — NEW YORK

Large Cities — RICHMOND

Cities — ARLINGTON

Small Cities — Fairfield

Large Towns — Concord

Towns & Villages — Acton

RELIEF FEATURES

HYDROGRAPHIC FEAT


UNIVERSAL WATER CHARTS
Charts published
Charts not published
TOPOGRAPHICAL SYMBOLS
CITIES AND TOWNS
NEW YORK
RICHMOND
ARLINGTON
HIGHWAYS AND ROADS
Dual Lane and Super Highways
Primary Roads
Secondary Roads
Trails
RELIEF FEATURES
HYDROGRAPHIC FEATURES

U. S. DANGER AREAS ON WORLD AERONAUTICAL CHART 409

NAME	ACTIVITY	USING AGENCY	ALTITUDE	TIME
			Unltd.	Unltd.
		Dept. of Army, Redstone Arsenal, Ala.	Unltd.	Unltd.
		U.S.A.F.	Above 1,000 above 1,000	
		Fort Jackson, S.C.	To 10,000	Unltd.
		Craig AFB, Selma, Ala.	To 10,000	VFR 0700-2300
		Craig AFB, Selma, Ala.	Unltd.	VFR 0700-2300
		Dept. of Army, Camp Gordon, Augusta, Ga.	To 5,000	0700-1900 When Red
		Army Contract Agency, Fort Benning, Ga.	To 10,000	Unltd.
		Dept. of Army, Ft. McClellan, Ala.	To 10,000	Unltd.
		Dept. of Army, Ft. McClellan, Ala.	To 10,000	Unltd.
		Dept. of Navy, Atlantic Fleet Weapons Range, Vieques, P.R.	To 50,000	Unltd.
		U.S. Army and Navy, Caribbean Area	To 60,000	Unltd.
		U.S.A.F. Birmingham, Ala. ANG, AF Reserve Training Center & Alabama Air Natl. Guard	3,500-25,000	0800-1700
		U.S. Army Reserve Components	Unltd.	Unltd.
		Dept. of Army, Camp Gordon, Augusta, Ga.	To 2,000	Days & Nights
		Dept. of Army, Camp Gordon, Augusta, Ga.	Unltd.	Unltd.

(2) Airspace Reservation Prohibited) (Caution) (D Danger) (W Warning) (A1)

...aircraft within an Airspace Reservation Danger Area unless permission for such operation has been issued by ...

...Armed Forces through controlled Armed Forces agencies, otherwise operation prohibited as exercised by pilots flying through such areas.

Rotating Light (With flashing code lights) ... Lightship

Rotating Light (With course lights and ... Marine Light

Flashing Light ...

F — Fixed Q F — Quick Flashing Occ — Occulting Alt — Group W — White B — Blue
Fl — Flashing I Qkfl — Interrupted Quick Flashing Alt — Alternating R — Red G — Green Al — Alternating

Marine lights are white unless colors are indicated; alternating lights are red and white unless otherwise indicated.

MISCELLANEOUS

Obstruction, less than 500 feet above ground

Obstruction, 500 feet or higher above ground
(Numerals indicate elevation above sea level of top)

Group Obstruction

Prominent Transmission Line

Mooring Mast

Isogonic Line — Value for 1962

Reporting Point (Compulsory)

Reporting Point (Non-compulsory)

Ocean Station Vessel (Name and position)

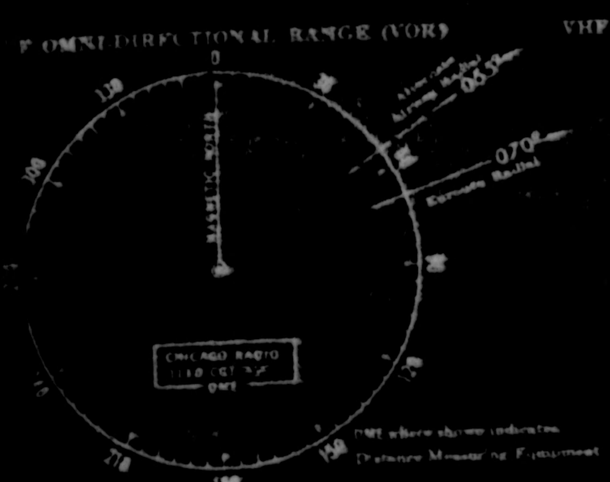
International Boundary
(Closed to transient aircraft unless cleared through air navigation)

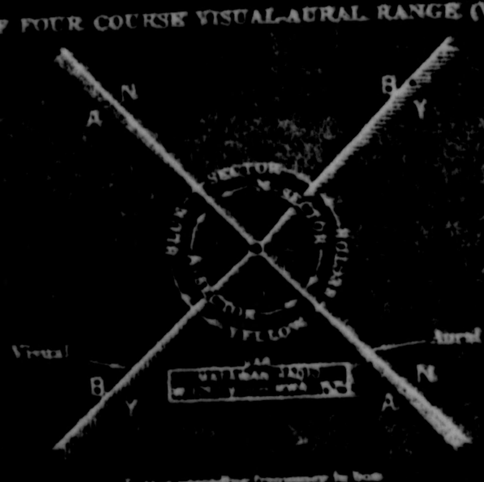
Restricted areas are numbered, and are indicated on the charts as follows:

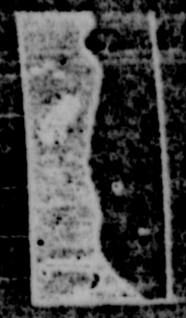
Prohibited Area — Flight of aircraft prohibited except by specific authority of ...

Danger, Restricted or Warning Area — Invisible hazards to air navigation

Caution Area — Visible hazards to air navigation







Rocks Awash

Shoals

Springs

Wells & Water Holes

Reefs, Coral & Rocky Ledges

CULTURAL AND MISC

Landmarks

Oil Tanks

Oil Fields

Dams

Elevations

Mines and Quarries

Mountain Passes

Lookout Stations

Coast Guard Stations

Pipe Lines

Race Tracks or Stadiums

Stranded Wrecks



AIR TRAFFIC CONTROL

Control Zone

SECRET

Controlled Civil Airway

Uncontrolled Civil Airway

Blue tint where shown
indicates air traffic controlled areas





CULTURAL AND MISCELLANEOUS

