

PROJECT 10073 RECORD CARD

1. DATE 15 February 1954		2. LOCATION Greenville, North Carolina		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	
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	
10. BRIEF SUMMARY OF SIGHTING Solid ball with parallel tails - brilliant orange color				11. COMMENTS Fireball meteor with some error in time.	

COUNTRY U. S. A.		REPORT NO. TAC IR. 1-54	(LEAVE BLANK) FILE 111 607524
AIR INTELLIGENCE INFORMATION REPORT			
SUBJECT UFOB			
AREA REPORTED ON Greenville, South Carolina		FROM (Agency) Hq 63d TC Gp (H), DAFB, Greenville, S.C.	
DATE OF REPORT 26 February 1954	DATE OF INFORMATION 15 February 1954	EVALUATION C 2	
PREPARED BY (Officer) Captain Joseph C. Sheelar, USAF, Int Off		SOURCE Interrogation of the observer.	
REFERENCES (Control number, direction, previous report, etc., as applicable) AFB 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 160200Z Feb 54, 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

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

DISTRIBUTION BY ORIGINATOR

1 to D/I, Hq USAF, Washington 25, D.C.
2 to file Int Section, Hq 63d Trp Car Gp (H), DAFB, Greenville, S.C.

ATTC 171825

AIR INTELLIGENCE INFORMATION REPORT

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

- a. Solid ball with twin parallel "tails". (see Attachment #1)
- b. About size of a tea-cup saucer approximately $3\frac{1}{2}$ in. in diameter.
- c. Brilliant orange color.
- d. One (1) object.
- e. N/A
- f. Negative.
- g. Two (2) parallel, heavy propellant streams or "tails" observed. Length of the tails approximately 3 to 4 times diameter of object. Width of each tail approximately $\frac{1}{4}$ 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 propellant 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)

Hq 63d TC Gp (H), DAFB,
Greenville, South Carolina

REPORT NO.

TAC IIR 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 DirectionVelocity

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)

Hq 63d TC Gp (H), DAFB,
Greenville, South Carolina

REPORT NO.

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PAGES

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- c. Brilliant orange color.
- d. One (1) object.
- e. N/A
- f. Negative.

g. Two (2) parallel, heavy propellant streams or "tails" observed. Length of the tails approximately 3 to 4 times diameter of object. Width of each tail approximately $\frac{1}{4}$ 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 propellant 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) Hq 63d TC Gp (H), DAFB, Greenville, South Carolina	REPORT NO. TAC IR 11-54	PAGE 4. OF 4. PAGES
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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.

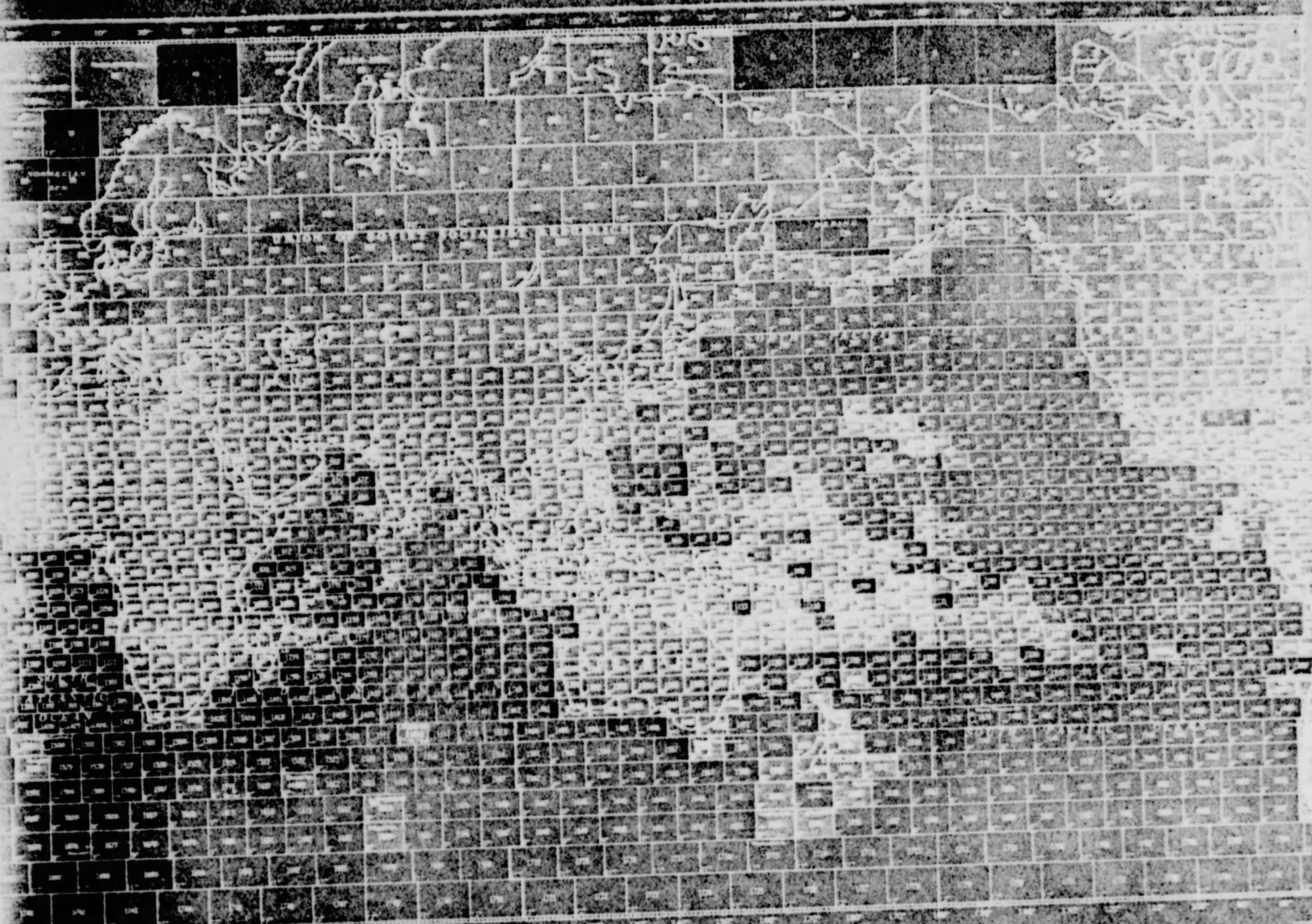
12. Preparing officer: Captain Joseph C. Sheelar

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

Chart published
Chart not published

AERONAUTICAL SYMBOLS

RADIO FACILITIES

All radio facilities are indicated by the symbols of Radio Frequency (RF) and Radio Communication (RC) facilities. The symbols are placed in the squares of the grid. The symbols are placed in the squares of the grid. The symbols are placed in the squares of the grid.

Methods of indicating radio facilities and RC facilities are shown below:

Radio Range (With voice)

Radio Range (Without voice)

Non-directional Radio Station

Directional Radio Station

Radio Beacon

Radio Direction Station

Radio Station

Radio Communication Station (With voice)

Radio Communication Station (Without voice)

Radio Broadcasting Station

Radio Relay Station

Radio For Radio Station

TOPOGRAPHICAL

CITIES AND TOWNS

Metropolitan Area NEW YORK
Large City BIRMINGHAM
City ALBUQUERQUE
Small City CHICAGO
Large Town CLEVELAND
Small Town DENVER



WORLD MAP
1:1,000,000

AERONAUTICAL CHART SUPPLY

To insure that the charts have the latest information available, U. S. World Aeronautical Charts are revised at six-month intervals. The Aeronautical Chart Supply is published at six-month intervals.

Charts are available to check the list of latest prices on orders with authorized agents.

CIVIL CHART SUPPLY

Aeronautical charts (aeronautical charts) have been revised to include the latest information and physical data from the United States. The charts may also be obtained from the Division, U. S. Coast and Geodetic Survey, Washington, D.C.

MILITARY CHART SUPPLY

(Ref. AFM 5-2)

1. Aeronautical charts (aeronautical charts) have been revised to include the latest information and physical data from the United States. The charts may also be obtained from the Division, U. S. Coast and Geodetic Survey, Washington, D.C.

2. Aeronautical charts (aeronautical charts) have been revised to include the latest information and physical data from the United States. The charts may also be obtained from the Division, U. S. Coast and Geodetic Survey, Washington, D.C.

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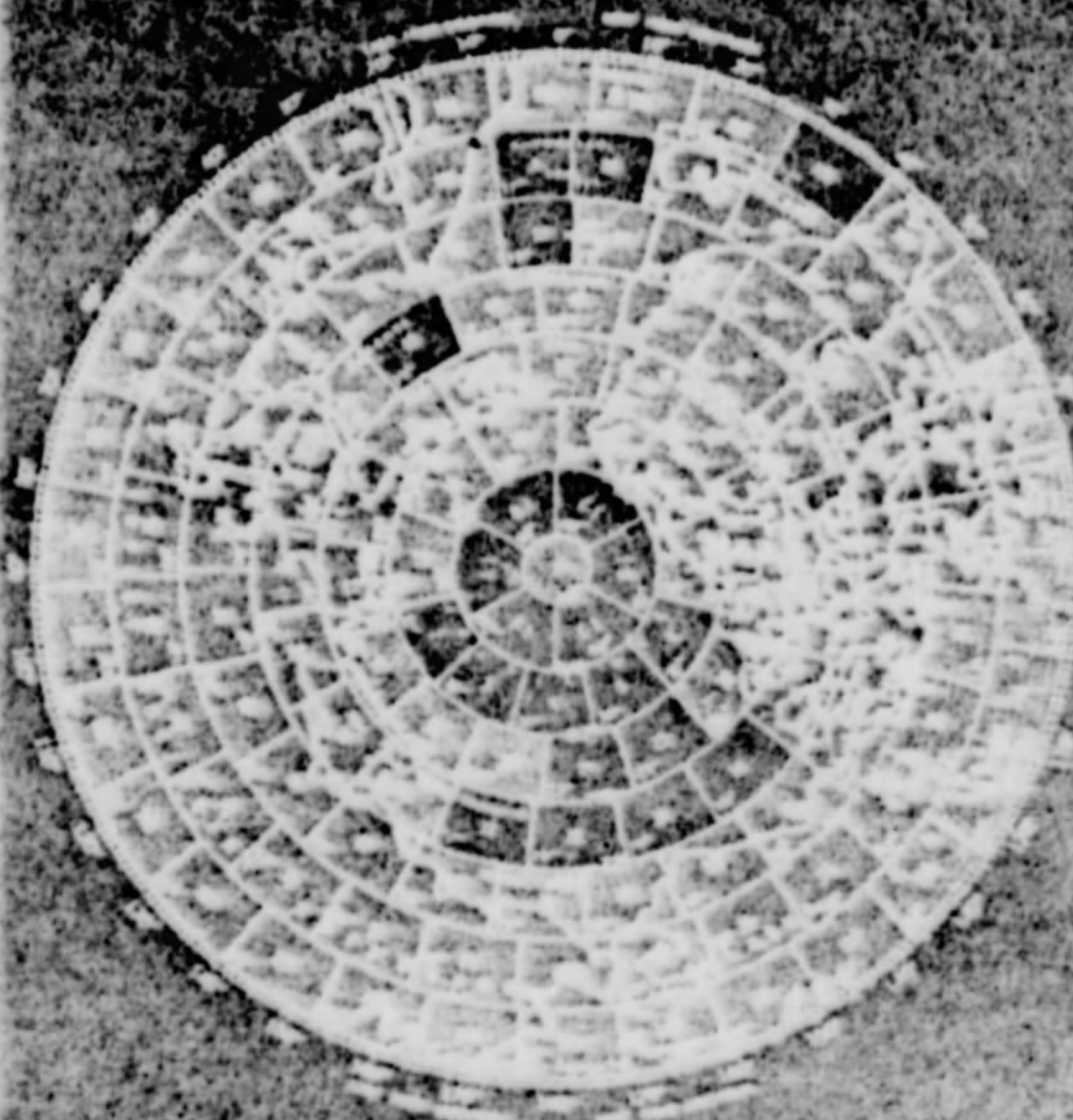
CORRECTION INSTRUCTIONS

1. The Coast and Geodetic Survey is making every effort to furnish the user with accurate charts. The user will naturally assist in this effort by marking corrections of information, drawings, relief and cultural features (roads, creeks, power lines, etc.) on the face of the chart. The user will also mark "changes" on the back of the chart. In marking corrections, state method used by chart user. Marking the correction.

- Mark correction on face of chart or back of chart.
- Fold chart along regular fold lines but with care.
- Make an extra fold along dotted line and place in pocket.
- Fill in the return address and drop the chart in any U. S. mail box. Storage is not required.

Remarks:

NORTH POLAR AREA



SOUTH POLAR AREA



These charts are published by the U. S. Coast and Geodetic Survey, Washington, D.C. They are available to the public at a special price of \$1.00 each. They are also available to the military at a special price of \$0.50 each.

AERONAUTICAL SYMBOLS

AERODROMES

Symbol	Description	Symbol	Description
○	Large Civil Airport	○	Small Civil Airport
●	Large Military Airfield	●	Small Military Airfield
○	Large Civil Airport	○	Small Civil Airport
●	Large Military Airfield	●	Small Military Airfield

AERODROME DATA

AND LANDING FACILITIES (NIPON)

Symbol	Description	Symbol	Description
○	Large Civil Airport	○	Small Civil Airport
●	Large Military Airfield	●	Small Military Airfield
○	Large Civil Airport	○	Small Civil Airport
●	Large Military Airfield	●	Small Military Airfield

OFFICIAL BUSINESS
PERMIT NO. 1000

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

U. S. DANGER AREAS ON WORLD AERONAUTICAL CHART 405

NO.	NAME	ACTIVITY	USING AGENCY	ALTITUDE	TIME
AR-75	Chaco Engineering Works	Research and Development	U. S. Atomic Energy Commission	Unk'd	Unk'd
AR-76	Edwards Arsenal	Demonstration & Rocket Testing	Dept. of Army, Rockwell, Edwards, Calif.	Unk'd	Unk'd
C-124	Adams	Acrobatic	NAS Jacksonville, Fla.	Above 8,500	0800-1800
AR-116	Fort Jackson	Small Arms Artillery and Ammunition Firing	Fort Jackson, S.C.	To 40,000	Unk'd
C-126	Cuba	Pilot Training	Craig AFB, Texas, U.S.	To 15,000	VFR
C-127	Cuba	Pilot Training	Craig AFB, Texas, U.S.	Unk'd	VFR
AR-124	Camp Gordon	Small Arms and Artillery Firing	Dept. of Army, Camp Gordon, Augusta, Ga.	To 4,000	0700-1500 Mon-Sat
AR-125	Fort Benning	Artillery & Artillery Firing	Army Ground School, Fort Benning, Ga.	To 40,000	Unk'd
AR-126	Fort McChesney	Infantry Weapons Firing	3rd Army, Ft. McChesney, Ala.	To 30,000	Unk'd
AR-127	Fort McChesney	Artillery Firing	3rd Army, Ft. McChesney, Ala.	To 40,000	Unk'd
AR-128	Chickamauga	Artillery & Artillery Firing on Forward Position Targets	Dept. of Army, Chickamauga, Ga.	To 40,000	Unk'd
AR-129	Camp Roberts	Artillery Firing	3rd Army and 4th Guard Units	To 40,000	Unk'd
C-130	Washington	Acrobatic and Formation Flying	NAS Washington, D.C. AFB	8,000-10,000-12,000-15,000	Unk'd
AR-131	General River	Small Arms and Artillery Firing	U.S. Atomic Energy Commission	Unk'd	Unk'd
AR-132	Blue AFB	Small Arms and Artillery Firing	3rd Army, Blue AFB, Tex.	To 25,000	Unk'd
AR-133	Camp Gordon	Small Arms and Artillery Firing	Dept. of Army, Camp Gordon, Augusta, Ga.	Unk'd	Unk'd

Altitude given in feet. AR - Airspace Reservation (Prohibited) C - Caution D - Danger W - Warning
 No person shall operate an aircraft within an Airspace Reservation or Danger Area unless permission for such operation has been issued by appropriate authority.
 Aircraft are not restricted from flying through Caution Areas however, altitude caution should be complied by pilots flying through such areas.

Rotating Light _____
 Rotating Light (with flashing red light) _____
 Rotating Light (with green light and red light) _____
 Flashing Light _____

F - Flash G - Quick Flashing Q - Quick Flashing
 F - Flashing G - Flashing Q - Flashing

Weather lights are white unless noted as follows:

MISCELLANEOUS

Obstruction, less than 500 feet above ground _____
 Obstruction, 500 feet or higher above ground _____
 (Obstructions indicate obstructions above sea level of high)

Group Obstruction _____

Frontage Transmission Line _____

Warning _____

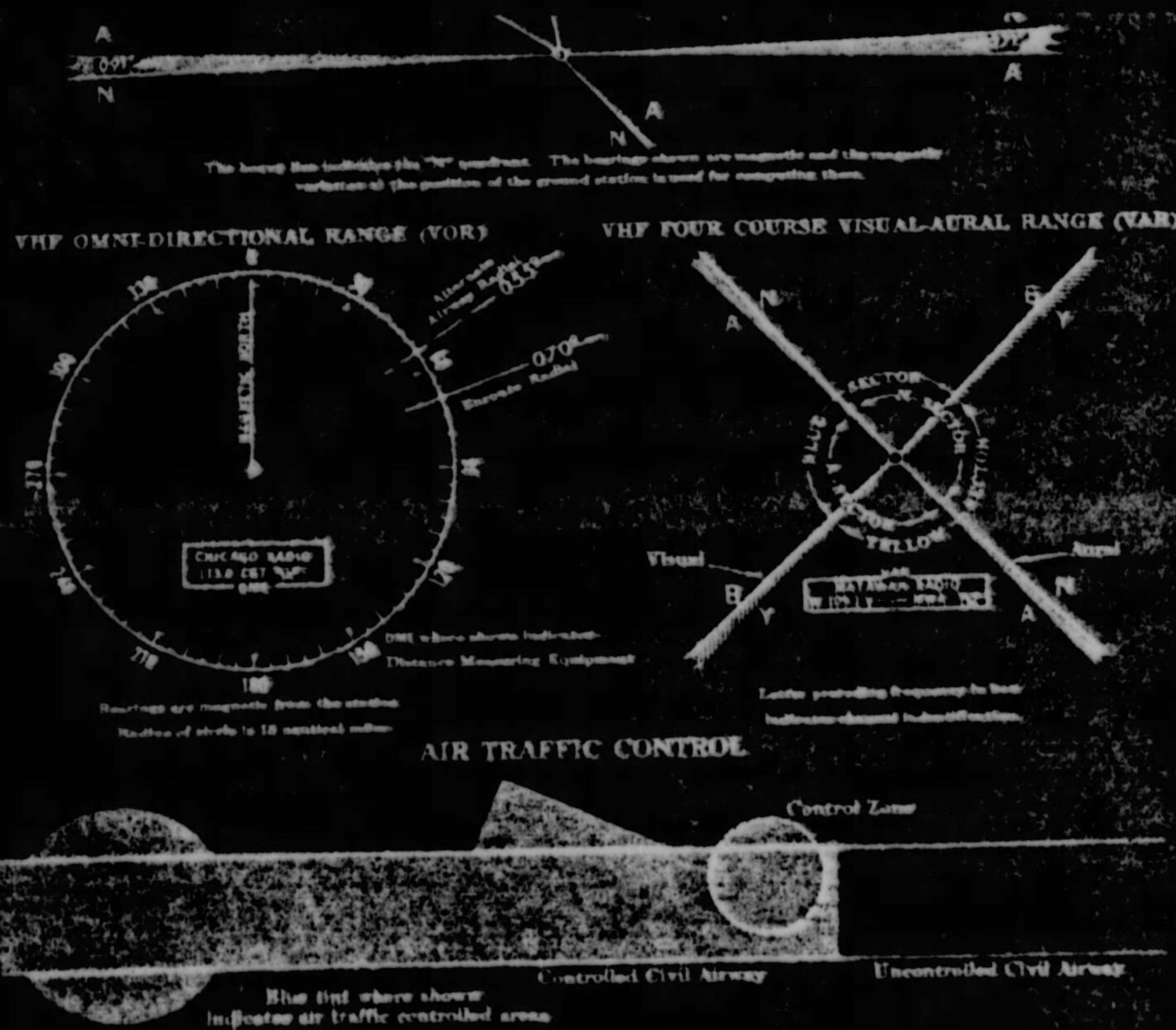
Islands _____

Restricted areas are indicated, and are indicated on the chart as follows:

_____ Prohibited Areas

_____ Danger, Restricted or Warning

_____ Caution Areas



Danger Area	
Rocks Awaft	
Shoals	
Expanded at low tide	
Springs	
Wells & Water Holes	
Reefs, Coral & Rocky Ledges	
Amount of low tide	
CULTURAL AND	
Landmarks (only prominent)	
Observations (showing them on land or sea)	
Oil Tanks	
Oil Wells	
Dams	
Elevations	
On land	
On water	
Minor and Quarries	
Mountain Passes	
Lookout Stations (showing them on land or sea)	
Coast Guard Stations	
Pipe Lines	
Rail Tracks or Stations	
Stranded Wrecks	

CULTURAL AND MISCELLANEOUS

The image is a high-contrast, black and white scan of a document page, likely from a microfilm or a heavily degraded photograph. The page is characterized by extreme contrast, with most areas being either solid black or white, with very little mid-tone detail. On the left side, there is a vertical strip that appears to be a header or a sidebar. Within this strip, the text "JUN 1964" is visible, along with "U.S. AIR FORCE" and other partially legible words. The main body of the page is filled with horizontal lines and a large, dark, irregular shape on the right side, possibly representing a large graphic or a heavily obscured section of text. The overall appearance is that of a severely damaged or low-quality reproduction of a document.

APPROXIMATE 11

AF 609579

Spot of unidentified object
appeared approximately 3 1/2"
in diameter is believed to the
size of the Moon.

2 1/2 miles from
submersible at this
point



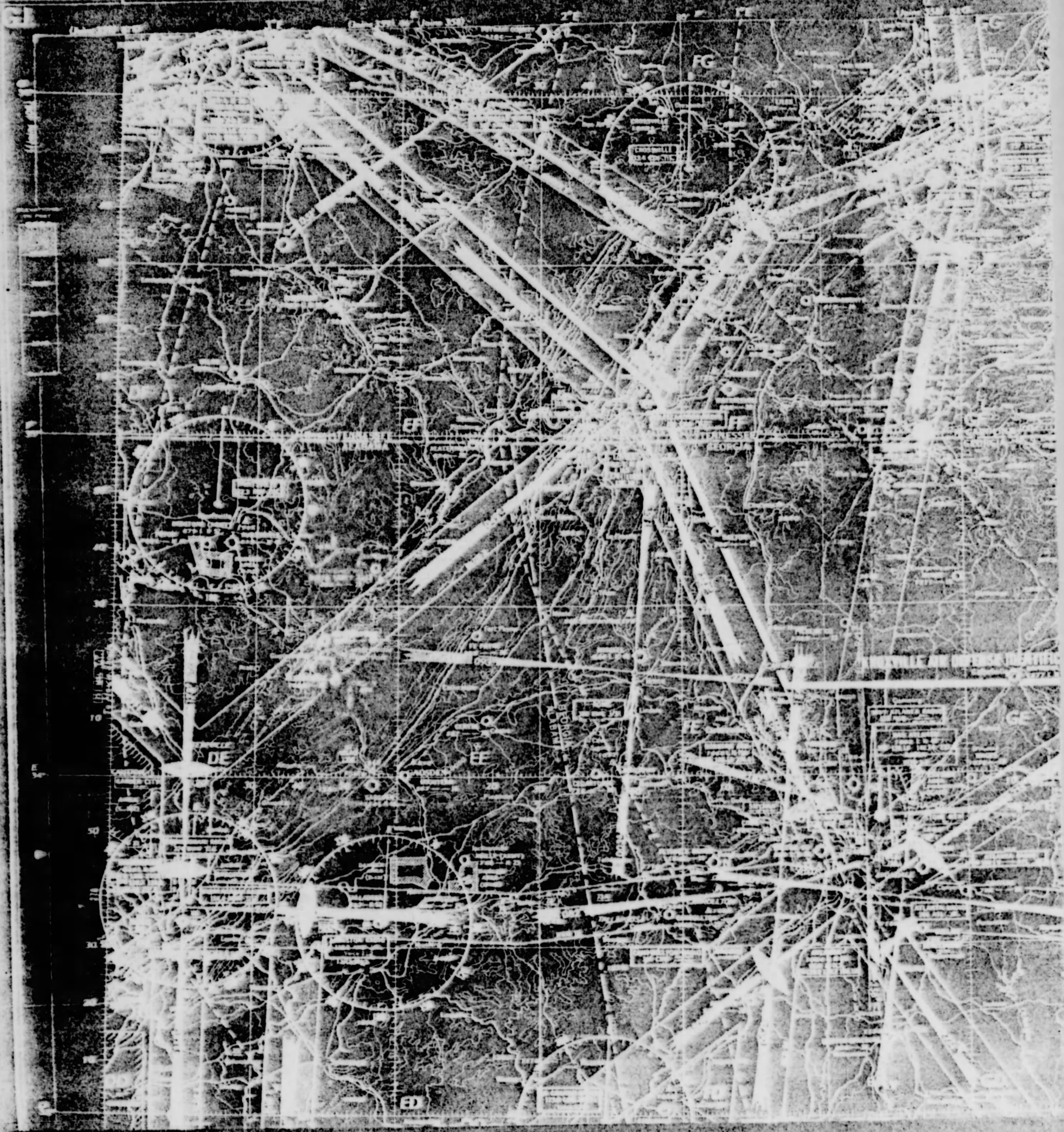
U-57511

UNIDENTIFIED

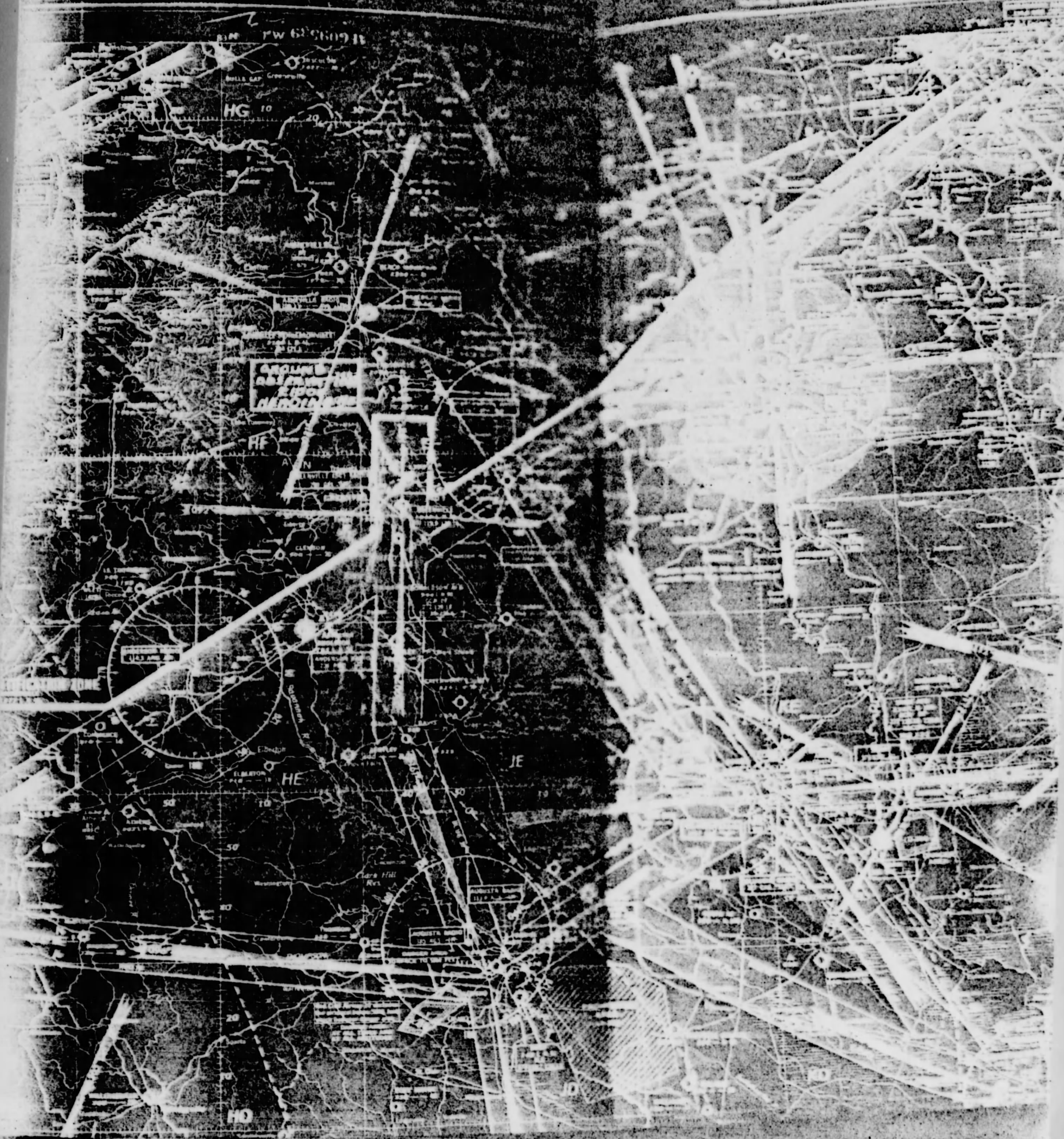
UNIDENTIFIED

SUBJECT: UNIDENTIFIED OBJECT AS
VIEWED BY CIVILIAN OBSERVER,
AT 180000 FT 1800 FT IN 1800 FT.

Moon appeared
approximately 30"
in diameter from
the observer's
position on the ground.



RONAUTICAL CHART



(402)

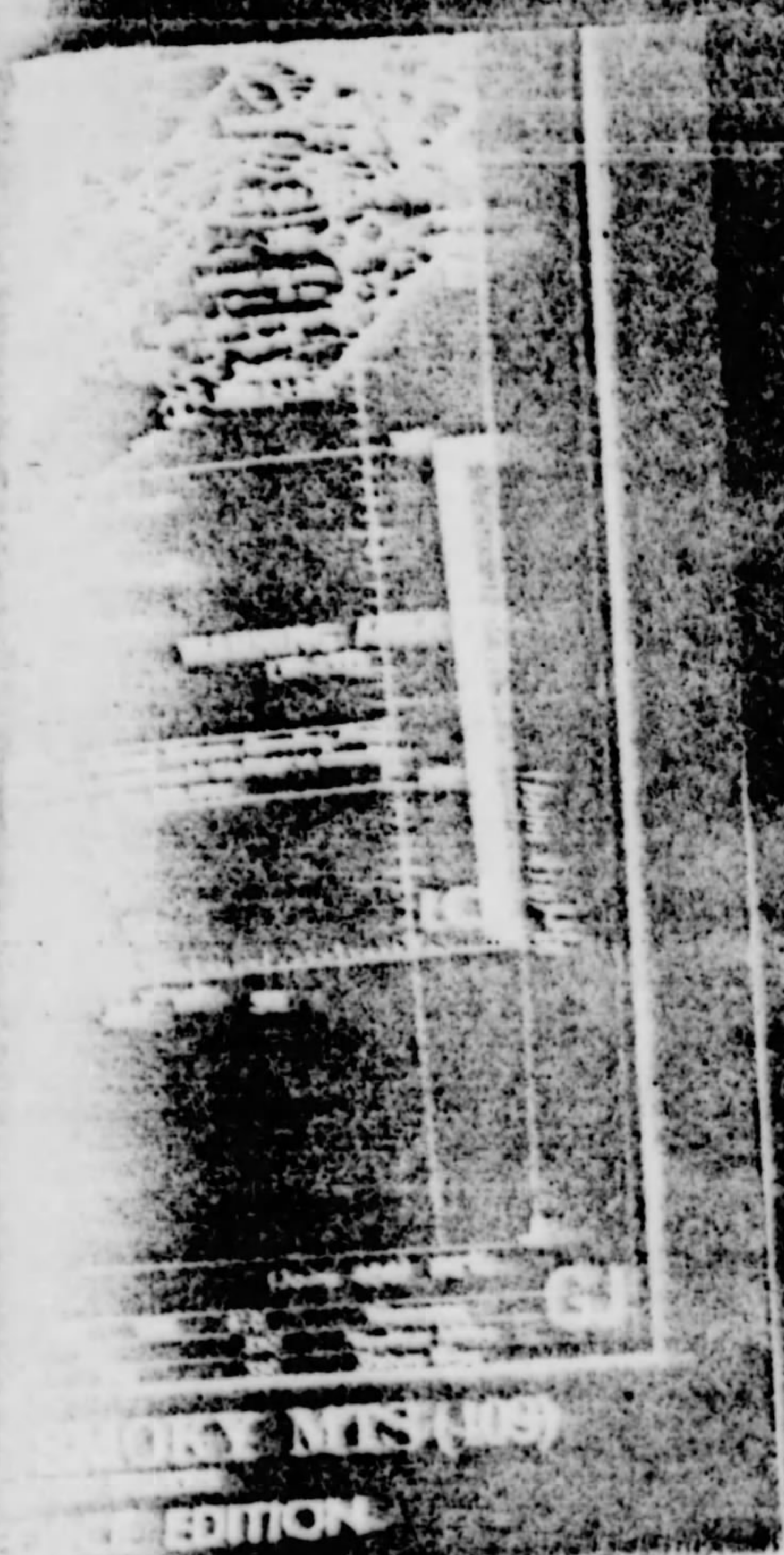
19



2000



17th Air Force Area, Asheville, NC
Scale 1:100,000
GREAT SMOKY MTS. AREA
U.S. AIR FORCE EDITION



BOOKY MTS (MS)
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.

UNCLASSIFIED

COUNTRY U. S. A.		REPORT NO. TAC IR 2-54	(LEAVE BLANK) AF 609540
AIR INTELLIGENCE INFORMATION REPORT			
SUBJECT UFOB			
AREA REPORTED ON Greenville, South Carolina		FROM (Agency) Hq 63d TC Gp (H), DAFB, Greenville, S. C.	
DATE OF REPORT 26 February 1954	DATE OF INFORMATION 15 February 1954	EVALUATION A 2	
PREPARED BY (Officer) Captain Joseph C. Sheelar, USAF, Int Off		SOURCE 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

INCL.
WA 409 (Annotated)

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.

ATTC 172167

AIR INTELLIGENCE INFORMATION REPORT

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

AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency) Hq 63d TC Gp (H), DAFB Greenville, South Carolina	REPORT NO. TAC IR 2-54	PAGE 3 OF 4 PAGES
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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 728th A.C.&W. Sqn., DAFB, SC.

10. Action taken:

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

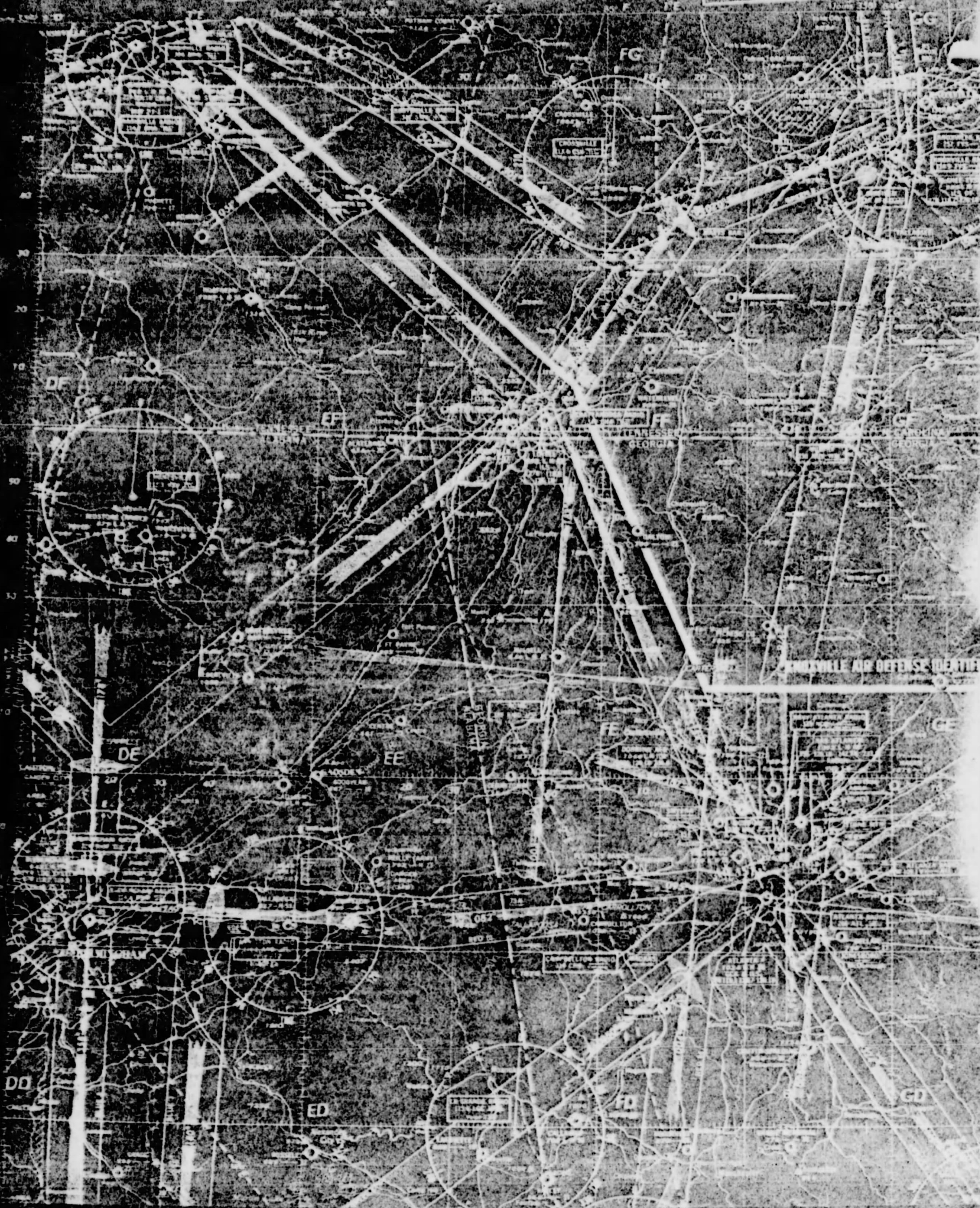
(1) Outfit had just set up on base; didn't have an IFF unit in operation to check identity of target.

(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

GJ



AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)

Hq. 63d TRP CARR GP, DAFB
Greenville, South Carolina

REPORT NO.

TAC AIR 2-54

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OF

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PAGES

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.

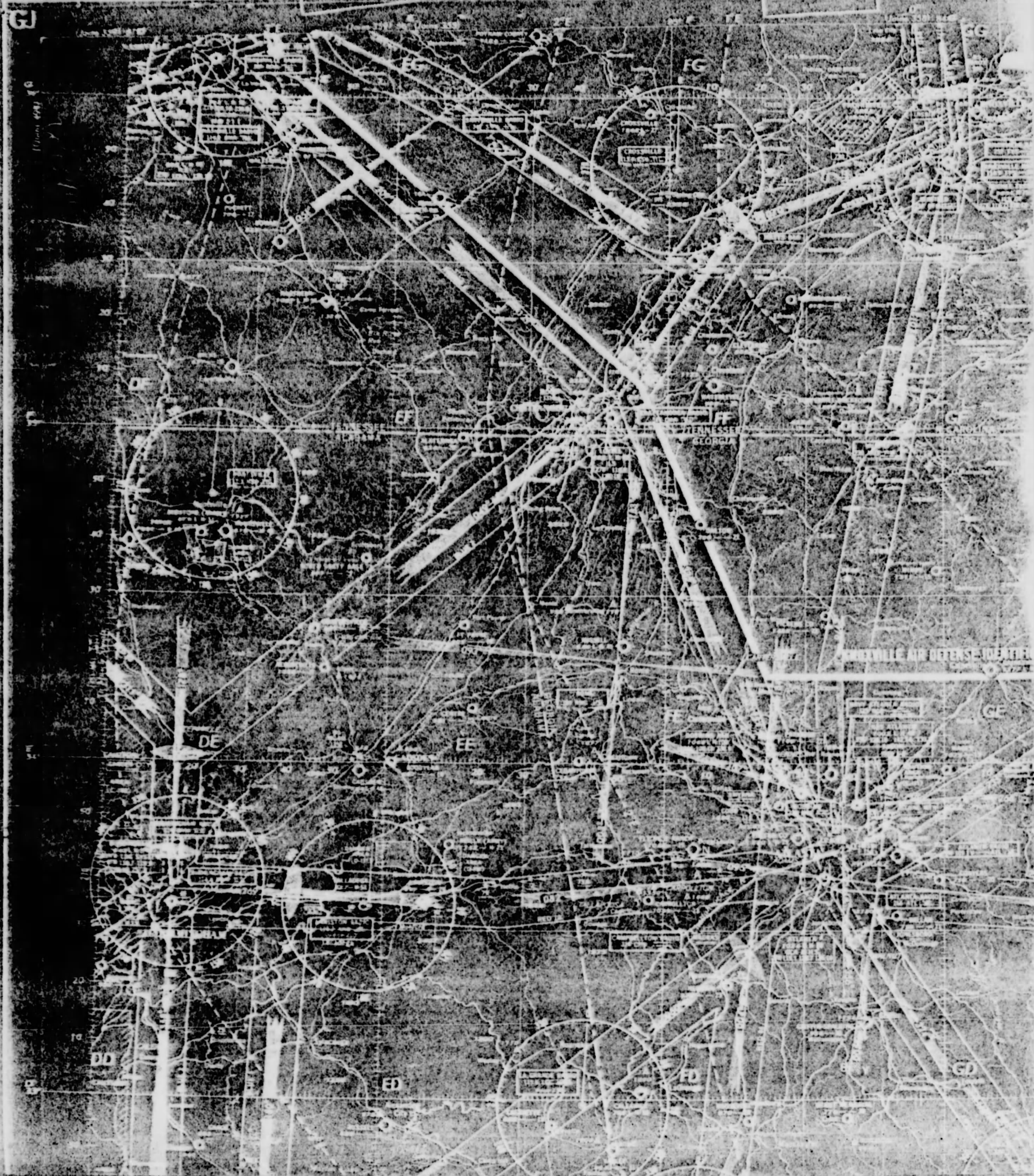
12. Preparing Officer: Captain Joseph C. Sheelar

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

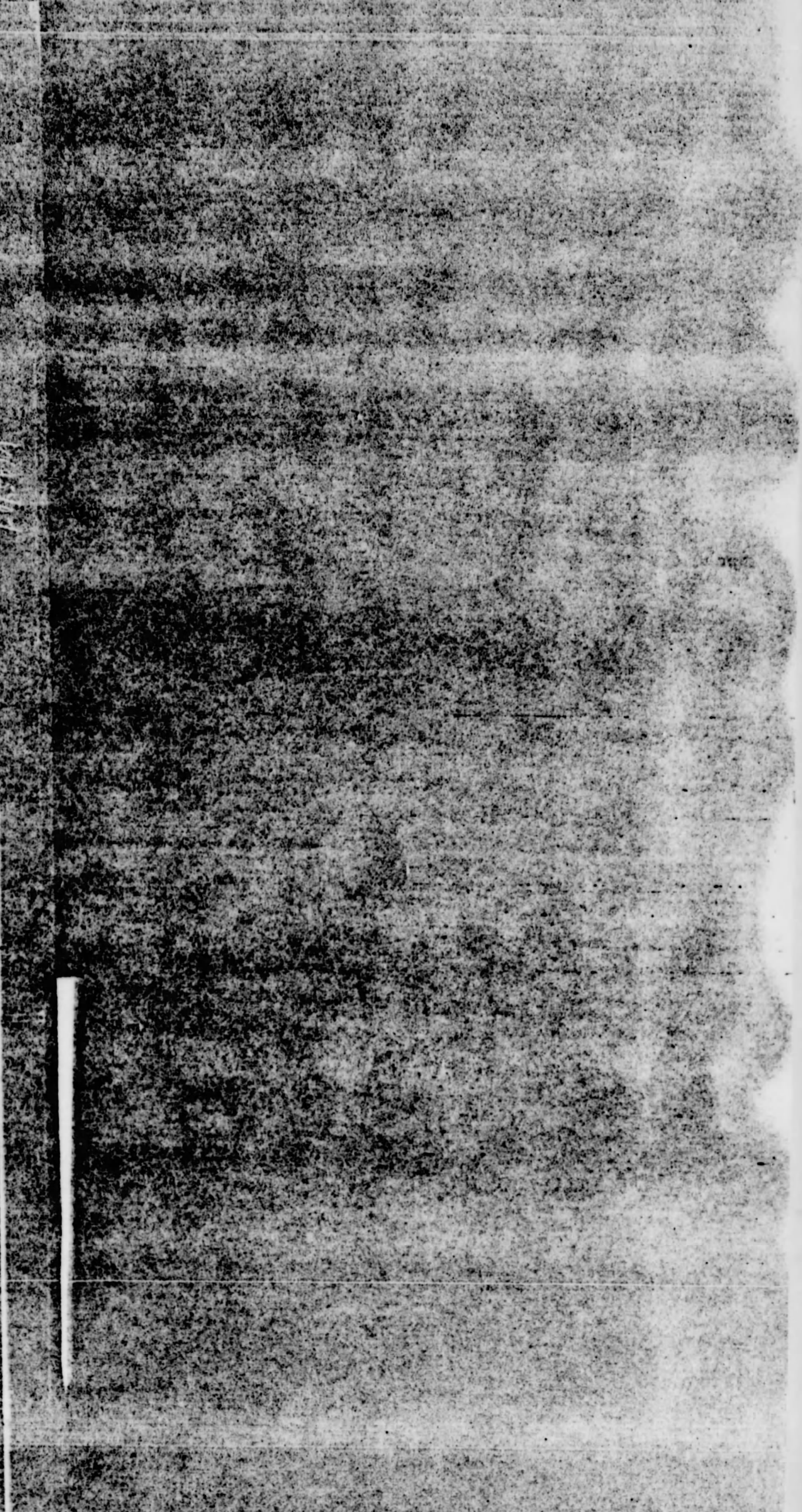
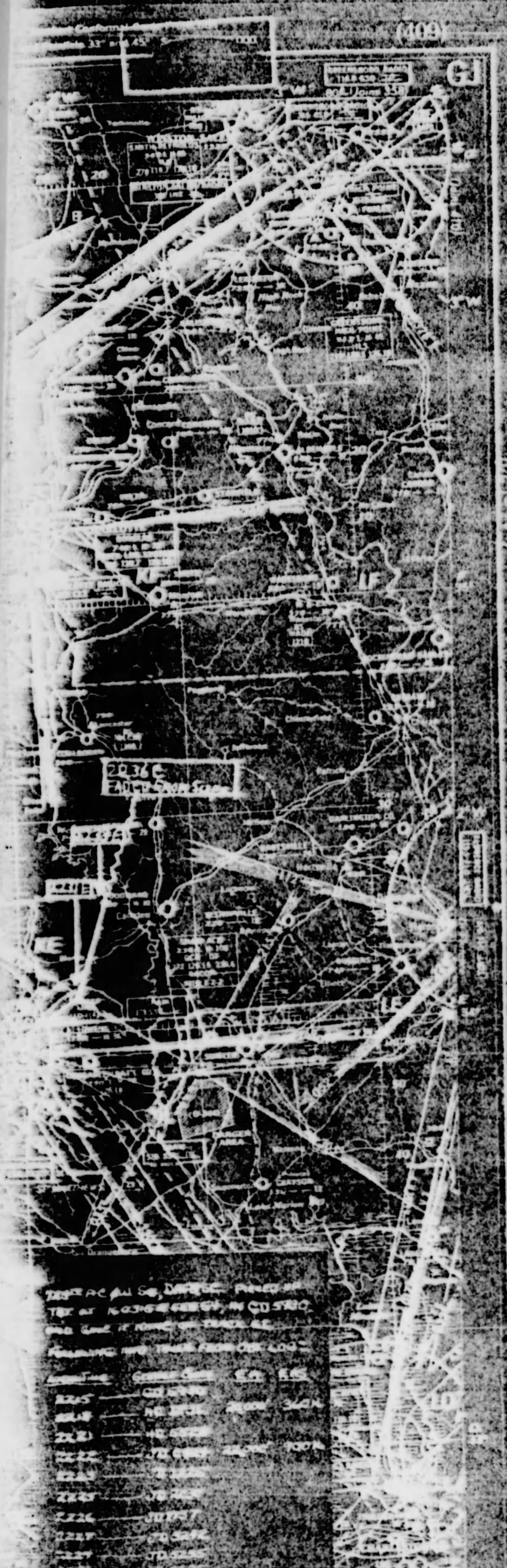
Preliminary analysis of the possible cause of the sighting:

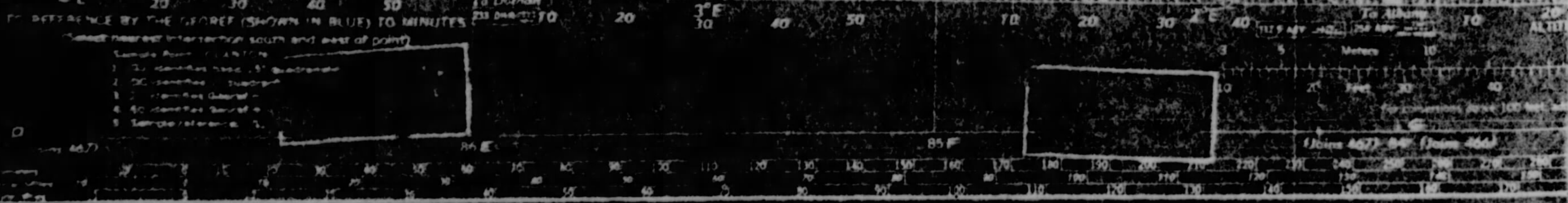
The primary cause of the sighting was through the normal duties as a radar operator in the AC&W Sq. All sightings are kept on log and this report was logged as routine but was called in when unusual performance was noted.

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.



[illegible]





61

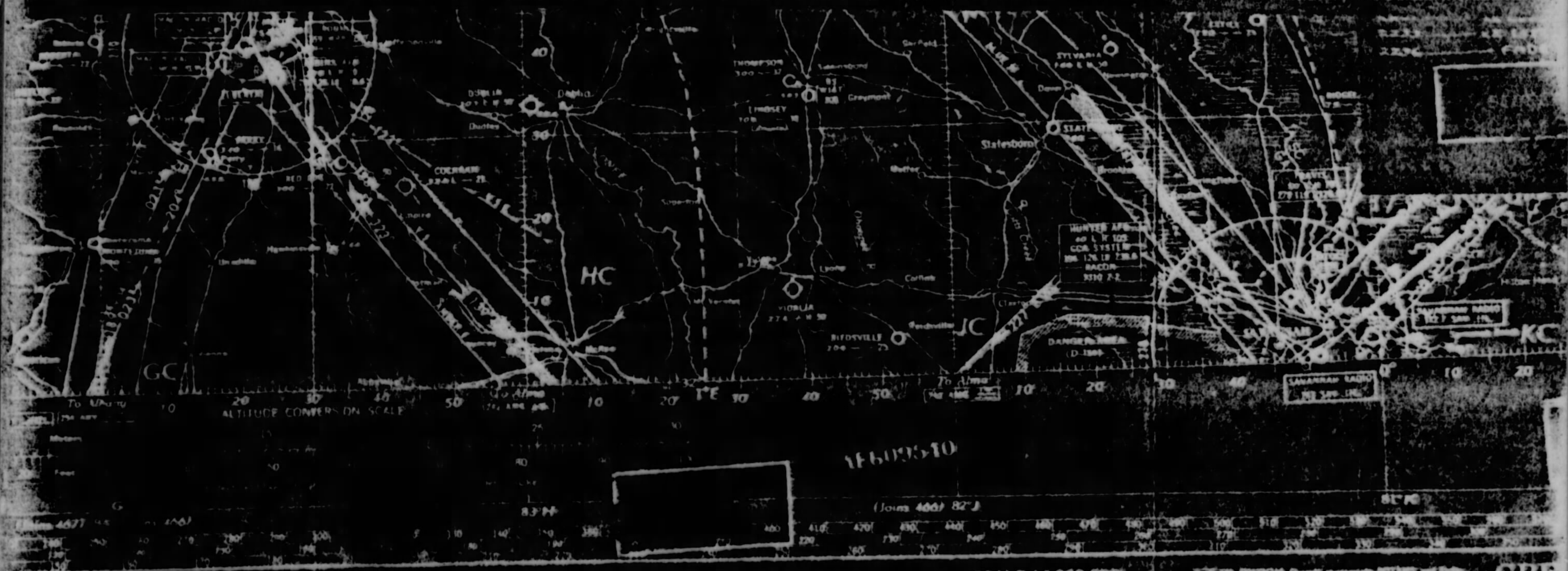
PRICE 25 CENTS

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



Printed and printed at Washington, D.C. by the U. S. Coast and Geodetic Survey under authority of the Secretary of Commerce.
 FEBRUARY 1945. Revised JANUARY 1945. BASE NO. 100.
BLUE TINT INDICATES AIR TRAFFIC CONTROLLED AREAS.
 Under Airways designated as shown along the route of the Airways. Limits of these Airways are indicated on this chart and on other maps of the Survey.



NOTE: If requested that users of this chart indicate corrections
and additions which come to their attention
and comply with mailing instructions on reverse side.

Obstructions
100 feet or higher above ground 
Less than 100 feet above ground 

1370

AERONAUTICAL CHART SUPPLY

To prove that the above is not a contradiction, it is sufficient to show that the above is not a contradiction. The above is not a contradiction because the above is not a contradiction.

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

Authorised agents for the sale of this material should be obtained from the Director, U.S. Coast and Geodetic Survey, Washington, D.C. The document may also be obtained from the Director, U.S. Coast and Geodetic Survey, Washington, D.C.

MILITARY CHART SUPPLY

CONCLUSIONS

1. Recommended Name, Scope and Publication: distributed by the Association Chart and Information Center is indeed so listed in the current edition of the "USAF Catalog of Government Charts and Navigational Information Publications". A Bulletin is also published twice monthly which contains important information such as new editions of charts available, placement charts, revision charts, chart correction notices and other pertinent information pertaining to charts and charts.

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

[illegible]

1. The first of these is the fact that the United States has a large and growing population of people who are not citizens of the United States. This is a result of the large number of people who have immigrated to the United States in recent years, and the fact that many of these people are not naturalized citizens.

1. NAME _____

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4. STATE _____

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199. PRINT DATE _____

200. PRINT SIGNATURE _____

THE UNIVERSITY OF CHICAGO

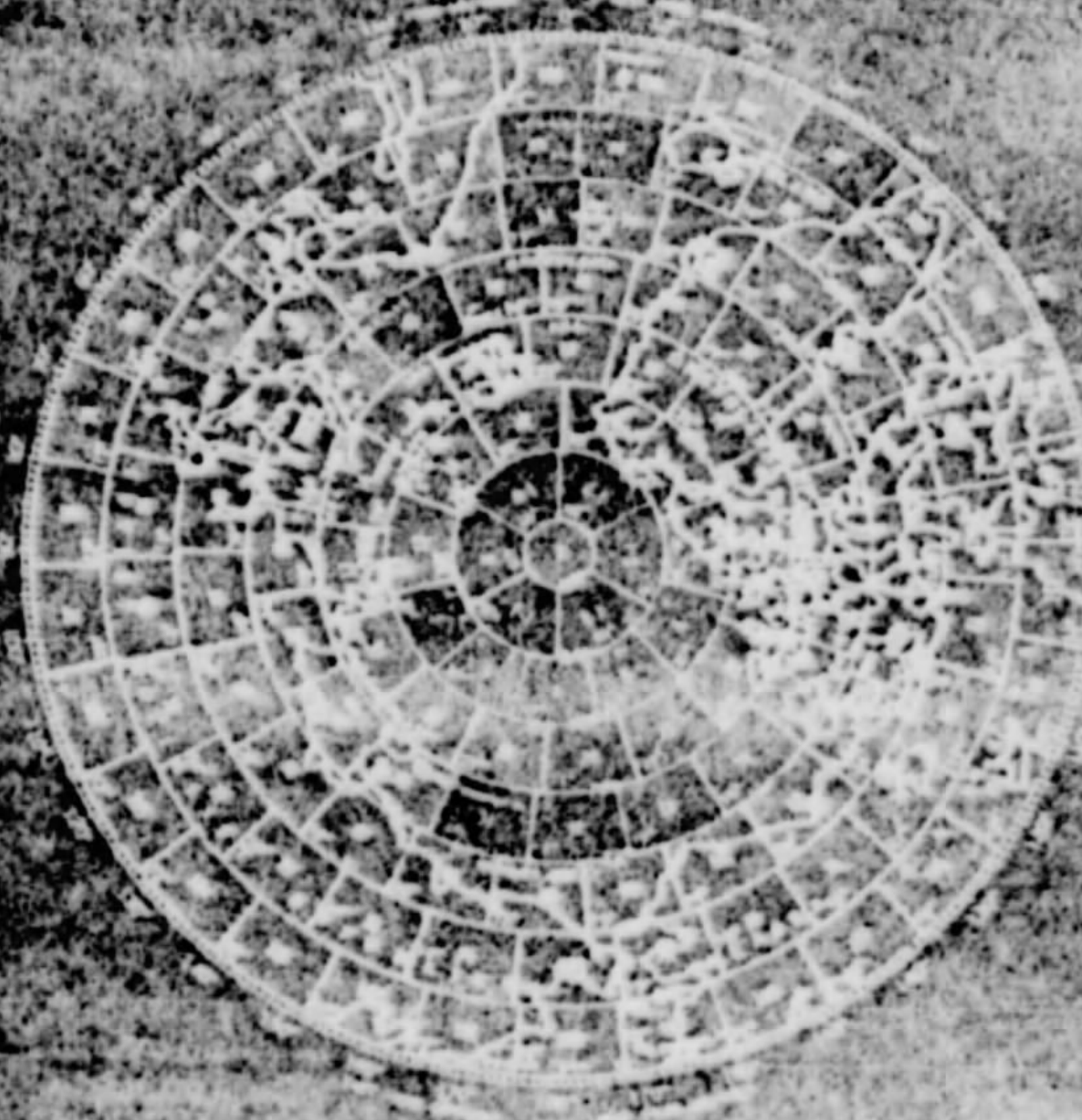
CORRECTION INSTRUCTIONS

The Coast and Geodetic Survey is making every effort to furnish the user with accurate charts. The Navy will generously assist in this effort by marking corrections of aeronautical information, including wind and current features (made, made, power, time, etc.) on the face of the chart, on any symbol on the chart or under "Remarks" below. In reporting corrections, state method used by observer in making the determination.

- a. Mark correction on face of chart or under "Remarks" column.
- b. Fold chart along regular fold lines, but with back open.
- c. Make an extra fold along dotted line and staple at bottom.
- d. Fill in the extra address and drop the chart in any 10 x 10 slot. Stamp is not required.

2000

NORTH POLAR AREA



SOUTH POLAR AREA



AERONAUTICAL SYMBOLS

AERODROMES

NAME	WALKER	DATE	TIME	LOCATION
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10

1990

1. The first part of the document is a title page. It contains the title of the document, the author's name, and the date of the document.

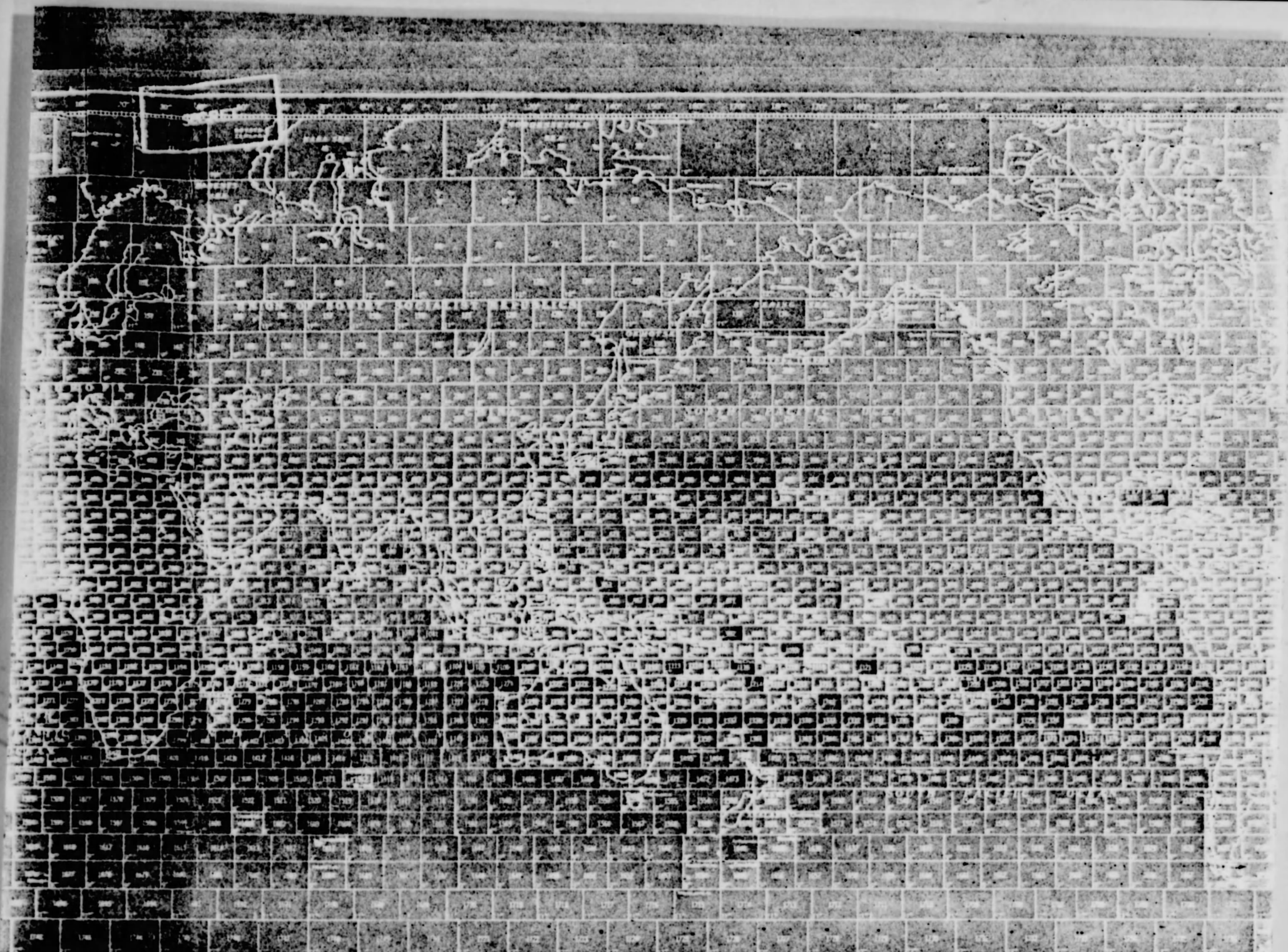
2. The second part of the document is the main body of the text. It contains the main content of the document, which is organized into paragraphs and sections.

3. The third part of the document is the conclusion. It contains the final thoughts and conclusions of the author.

4. The fourth part of the document is the references. It contains a list of sources that were used in the document.

5. The fifth part of the document is the appendix. It contains additional information that is related to the main body of the text.

ALL INFORMATION CONTAINED



WORLD AERONAUTICAL CHART INDEX

Scale of Series 1:1,000,000

Chart published
Chart not published

AERONAUTICAL SYMBOLS

RADIO FACILITIES

Methods of indicating specific radio and CW calls are shown below.	
Radio Range (With voice)	BOSTON RADIO 119.1 MHz
Radio Range (Without voice)	BOSTON 119.1 MHz
Non-directional Radio Beacon (Without voice)	BOSTON 119.1 MHz
Non-directional Radio Beacon (With voice)	BOSTON 119.1 MHz
Radio Direction Finder (Without voice)	BOSTON 119.1 MHz
Radio Direction Finder (With voice)	BOSTON 119.1 MHz
Radio Communication Station (With voice)	BOSTON 119.1 MHz
Radio Communication Station (Without voice)	BOSTON 119.1 MHz
Radio Beacon Station (Without voice)	BOSTON 119.1 MHz
Radio Beacon Station (With voice)	BOSTON 119.1 MHz

TOPOGRAPHICAL SYMBOLS

CITIES AND TOWNS

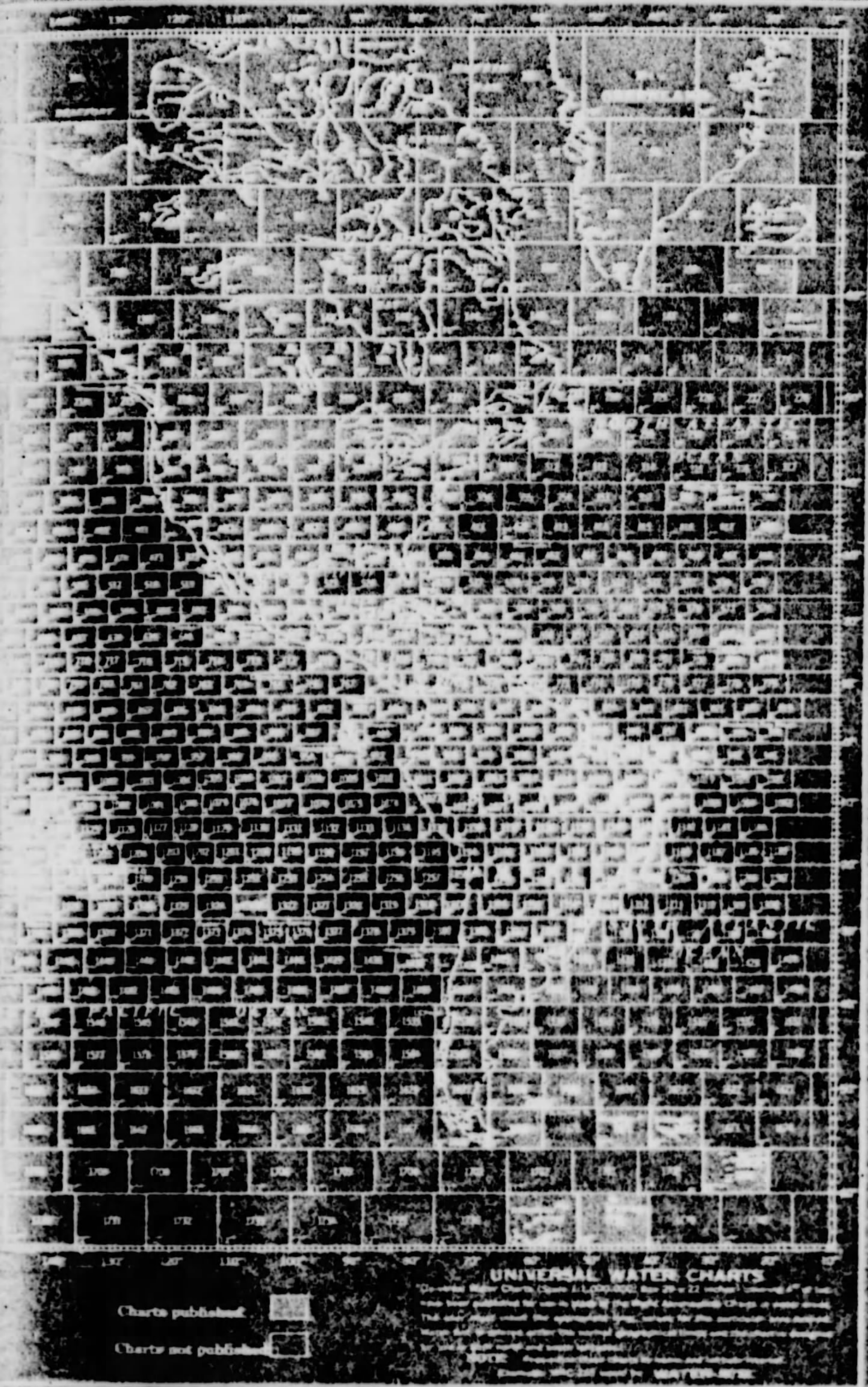
Metropolitan Area	NEW YORK	First Class
Large City	RICHMOND	First Class
City	ALBANY	First Class
Small City	ALBANY	First Class
Large Town	ALBANY	First Class
Small Town	ALBANY	First Class
Village	ALBANY	First Class

RELIEF FEATURES

Contour		1000
Spot Elevation		1000
Spot Elevation		1000
Spot Elevation		1000

HYDROGRAPHIC FEATURES

Shoal		1000
Shoal		1000
Shoal		1000



TOPOGRAPHICAL SYMBOLS

CITIES AND TOWNS

NEW YORK

RICHMOND

ALBANY

HIGHWAYS AND ROADS

Dual Lane and Super Highways

Primary Roads

Secondary Roads

Trails

U. S. Road Markings

National State

Provincial Road Markings

Road Names

RELIEF FEATURES

HYDROGRAPHIC FEATURES

U. S. DANGER AREAS ON WORLD AERONAUTICAL CHART 409

NAME	ACTIVITY	USING AGENCY	ALTITUDE	TIME
1. ...	...	...	...	...
2. ...	...	...	...	...
3. ...	...	...	...	...
4. ...	...	...	...	...
5. ...	...	...	...	...
6. ...	...	...	...	...
7. ...	...	...	...	...
8. ...	...	...	...	...
9. ...	...	...	...	...
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18. ...	...	...	...	...
19. ...	...	...	...	...
20. ...	...	...	...	...

Rotating Light (With flashing code light)

Rotating Light (With steady light and flashing code light)

Flashing Light

Flash

Flash - Quick Flashing

Flash - Interrupted Quick Flashing

Flash - Overriding

Flash - Alternating

Marine lights are white unless noted otherwise; alternative lights are red or white unless otherwise noted.

Lighthouse

Marine Light

MISCELLANEOUS

Obstruction, less than 500 feet above ground

Obstruction, 500 feet or higher above ground

Group Obstruction

Prominent Transmission Line

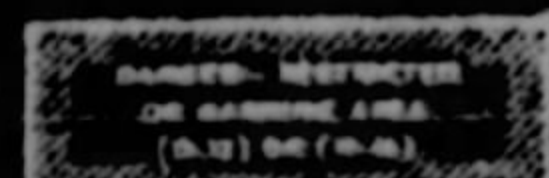
Moorings Mast

Isogonic Line

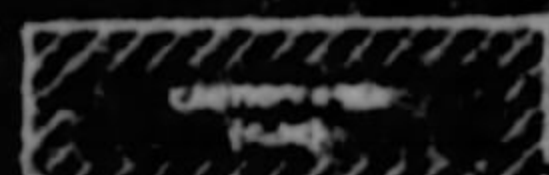
Restricted areas are numbered, and are indicated on the charts as follows:



Prohibited Area - Flight of aircraft prohibited except by specific authorization



Danger, Restricted or Warning Area - Involves hazard to aircraft

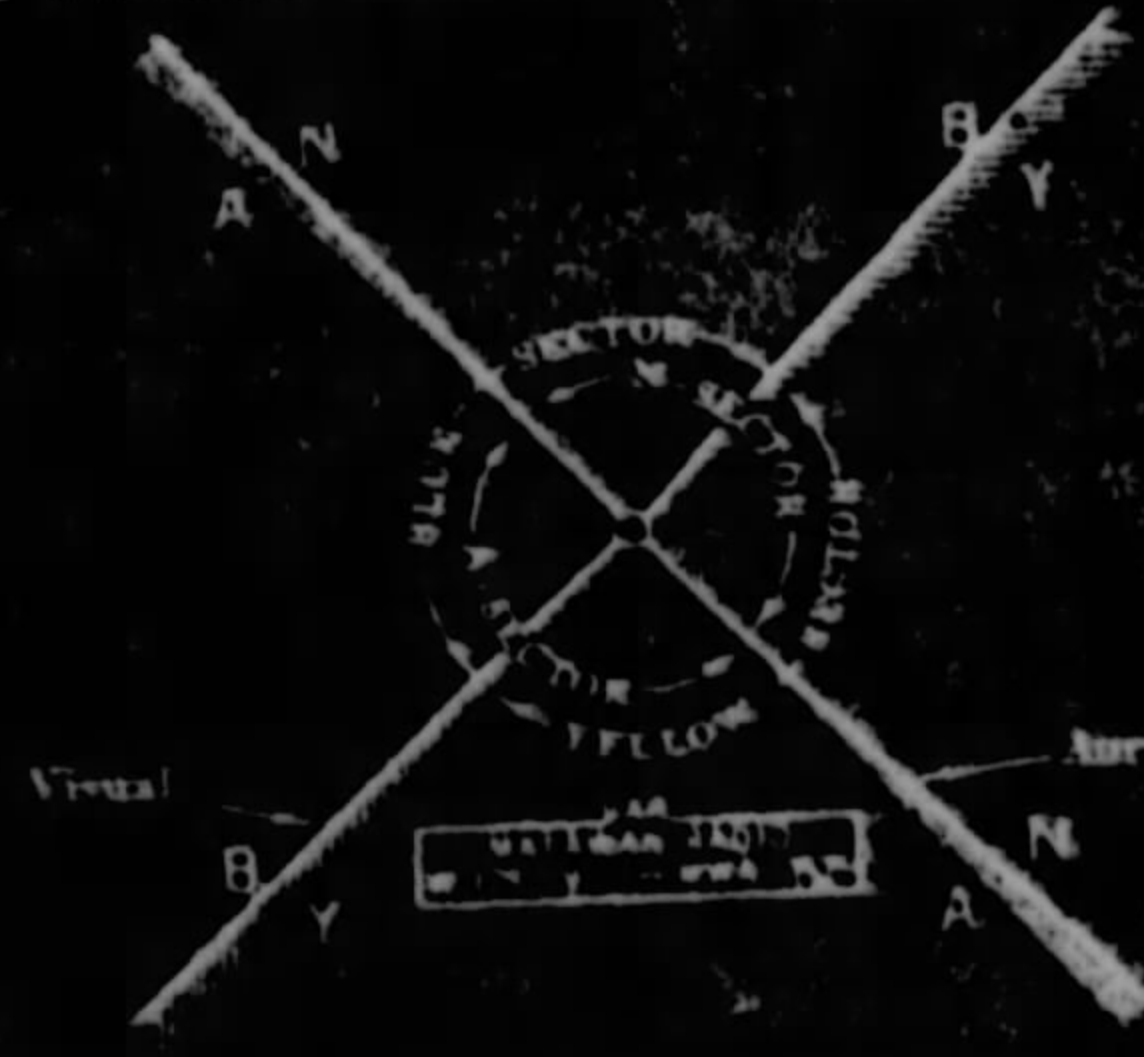


Caution Area - Visible hazard to aircraft

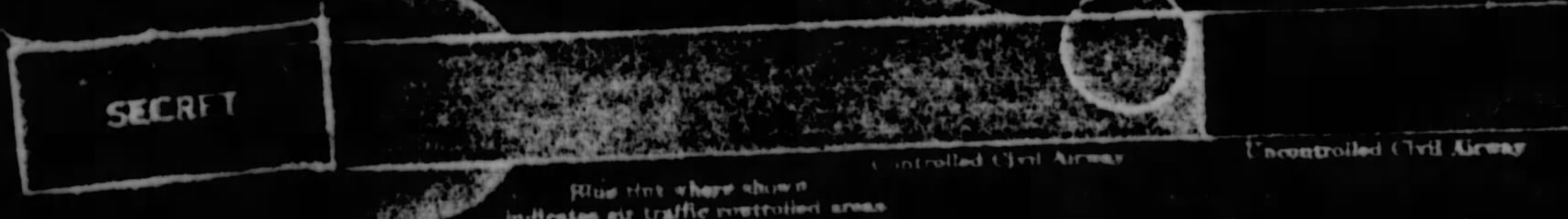
OMNIDIRECTIONAL RANGE (VOR)



VHF FOUR COURSE VISUAL-AURAL RANGE (VAR)



AIR TRAFFIC CONTROL



SECRET

Rocks Awaik

Shoals

(Drawn on blue sheet)

Springs

Wells & Water Holes

Reefs, Coral & Rocky Ledges

(Drawn on blue sheet)

CULTURAL AND MISC

Landmarks (with appropriate notes)

Obstacles indicate elevation above sea level of map

Oil Tanks

Oil Fields

Dams

Elevations

(In feet)

(Indicates short to level of map)

(Highest to a general area)

(Spot elevations)

Mines and Quarries

Mountains, Passes

Lookout Stations (Mountains to highest peaks)

Coast Guard Stations

Pipe Lines

Race Tracks or Stadiums

Stranded Wrecks

