

|                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                           |                                                                             |                        |  |  |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------|--|--|
| 1. DATE - TIME GROUP<br>1 October 53 1/1230Z                                                            | 2. LOCATION<br>Harrisville, Michigan                                                                                                                                                                                                                                                                                                                                      |                                                                             |                        |  |  |
| 3. SOURCE<br>Civilian                                                                                   | 10. CONCLUSION<br>INSUFFICIENT DATA FOR EVALUATION<br>Insufficient data, distance of flight too short for aircraft identification.                                                                                                                                                                                                                                        | Director<br>Aircraft Control<br>Harrisville, Mich.<br>10/1/53<br>RETURN TO: | T-3<br>10/1/53<br>1953 |  |  |
| 4. NUMBER OF OBJECTS<br>One                                                                             |                                                                                                                                                                                                                                                                                                                                                                           |                                                                             |                        |  |  |
| 5. LENGTH OF OBSERVATION<br>3 - 4 seconds                                                               |                                                                                                                                                                                                                                                                                                                                                                           |                                                                             |                        |  |  |
| 6. TYPE OF OBSERVATION<br>Ground-Visual                                                                 | 11. BRIEF SUMMARY AND ANALYSIS<br>Rough, highly reflective object appeared to be turning to a heading of 225 deg at an altitude of about 20 deg above the horizon. No flight plus one tow ship of F-86 type w/c were airborne in the immediate area. The local radar station reported no contact with anything except the jammy flights. Duration too short for aircraft. |                                                                             |                        |  |  |
| 7. COURSE<br>270 - 225 degrees                                                                          |                                                                                                                                                                                                                                                                                                                                                                           |                                                                             |                        |  |  |
| 8. PHOTOS<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No                     |                                                                                                                                                                                                                                                                                                                                                                           |                                                                             |                        |  |  |
| 9. PHYSICAL EVIDENCE<br>1 Oct<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No | Harrisville, Mich. aircraft f-1                                                                                                                                                                                                                                                                                                                                           |                                                                             |                        |  |  |



UNCLASSIFIED

*Action*

20 OCT 53 21 10z

*Am*

*S. A. A. A.  
B. A. A. A.  
4. R. A. A.*

RB185

WPE226

YMB149

YYB156

JEDFJ A148

PP JEDEN JEDWP JEPHQ 333

DE JEDFJ 17B

P 021930Z ZNJ

FM COMDR 527TH AIR DEF GP WURTSMITH AFB MICH

TO JEPHQ/DIR OF INTELLIGENCE HQ USAF WASH 25 DC

JEDWP/AIR TECH INTELLIGENCE CENTER WRI PATT AFB OHIO

INFO JEDEN/CG ADC ENT AFB COLO SPGS COLO

UNCLASSIFIED

26 052 PD SUBJ CLN RLYOBRPT PD SINGLE ROUND

OBJECT SIGHTED CMA HIGHLY REFLECTIVE SILVER COLOR CMA NO NOISE OR

EXHAUST TRAIL CMA DISAPPEARING IN DISTANCE PD SIGHTED 0830 EST 1 OCT

53 CMA OBSERVED 3 SECONDS PD VISUAL SIGHTING BY CIVILIAN AT 44 DEGREES

38 MINUTES LATITUDE CMA 83 DEGREES 20 MINUTES LONGITUDE 1 MILE WEST

OF HARRISVILLE CMA MICHIGAN PD OBJECT APPEARED 5 TO 10 MILE SOUTH 20

DEGREES ABOVE HORIZON TURNING TO HEADING 225 DEGREES PD WX CONDITIONS

EXCELLENT CMA MODERATE WINDS ALOFT CMA NO PHYSICAL EVIDENCE PD NO

RADAR CONTACT PD 7 F-86 TYPE AIRCRAFT AIRBORN IN VICINITY AT 0820 TO

0850 EST PD END

02/2010Z OCT JEDFJ

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

5 OCT 1953 09 57

1003393

UNCLASSIFIED



|                                                                                      |                                       |                                           |               |
|--------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------|---------------|
| COUNTRY<br>UNITED STATES                                                             |                                       | REPORTING<br><b>UNCLASSIFIED</b>          | (LEAVE BLANK) |
| SUBJECT<br>FLYOVERPT                                                                 |                                       |                                           |               |
| AREA REPORTED ON<br>Traverse City ADIZ, Michigan                                     |                                       | FROM (Agency)<br>Wurtsmith Air Force Base |               |
| DATE OF REPORT<br>2 October 1953                                                     | DATE OF INFORMATION<br>1 October 1953 | EVALUATION                                |               |
| PREPARED BY (Officer)<br>1st Lt., GEORGE E. SHAW                                     |                                       | SOURCE<br>Earnest L. Kaumitz, Civilian    |               |
| REFERENCES (Control number, directive, previous report, etc., as applicable)<br>None |                                       |                                           |               |

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.)

Single round object sighted at 0830 hours on 1 October 1953 at Grid Coordinates GJGQ4438 (Harrisville, Michigan). Heading 270 degrees turning to 225 degrees, then disappearing. Object appeared 20 degrees above the horizon on a heading 180 degrees from observation location local Radar Station reported no unknown tracks.

7 F-86 type aircraft airborne in vicinity.

Significance - Unknown.

DOWNGRADED AT 3 YEAR IN  
DECLASSIFIED AFTER 12  
DOD DIR 5200.10

2 INCL  
Incl #1 - World Air Chart (254) Showing Flight Path  
Incl #2 - AF Form 112 Part 2

**UNCLASSIFIED**

DISTRIBUTION BY ORIGINATOR  
Director of Intelligence, Headquarters USAF, Washington 25, D.C.  
Chief, Air Technical Intelligence Center, ATTN: ATIAA-2c, Wright-Patterson AFB, Ohio

NOTE: THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE ACT, 50 U. S. C.—31 AND 32, AS AMENDED. ITS TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. IT MAY NOT BE REPRODUCED IN WHOLE OR IN PART, BY OTHER THAN UNITED STATES AIR FORCE AGENCIES, EXCEPT BY PERMISSION OF THE DIRECTOR OF INTELLIGENCE, USAF.

(CLASSIFICATION)



UNCLASSIFIED

AIR INTELLIGENCE INFORMATION REPORT

|                                                                                     |            |                   |
|-------------------------------------------------------------------------------------|------------|-------------------|
| FROM (Agency)<br>63rd Ftr Intep Sq, Intell. Off.<br>Wurtsmith AFB, Oscoda, Michigan | REPORT NO. | PAGE 1 OF 1 PAGES |
|-------------------------------------------------------------------------------------|------------|-------------------|

At 0830 EST, 1 October 1953, Mr. [REDACTED], Bay City, Michigan observed, visually, an unknown flying object approximately 5 miles south of Harrisville, Michigan. Mr. [REDACTED] describes the object that he saw as being round, highly reflective, and in a turn when he observed it. The object appeared to be turning to a heading of 225 degrees at an altitude of about twenty degrees above the horizon. Observer was unable to detect any noise or exhaust trail of any type. Object was observed for approximately 3 to 4 seconds before being lost from sight.

Two flights plus one tow ship of F-86 type aircraft were airborne in the immediate area at 20,000 feet firing gunnery. The local radar station reports no contact except with the gunnery flights.

Weather at the time of sighting was clear with twenty to thirty miles visibility.

Mr. [REDACTED] reported a similar sighting on 28 September 1953 from a location 1 1/2 miles distant to the location of this sighting.

DOWNGRADED AT 3 YEAR INTERVALS;  
DECLASSIFIED AFTER 12 YEARS.  
DOB DIR 5200.10

UNCLASSIFIED

NOTE: THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE ACT, 50 U. S. C. — 31 AND 32, AS AMENDED. ITS TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. IT MAY NOT BE REPRODUCED IN WHOLE OR IN PART, BY OTHER THAN UNITED STATES AIR FORCE AGENCIES, EXCEPT BY PERMISSION OF THE DIRECTOR OF INTELLIGENCE, USAF.

(CLASSIFICATION)



# (264) GEORGIAN BAY

ELEVATION

GK

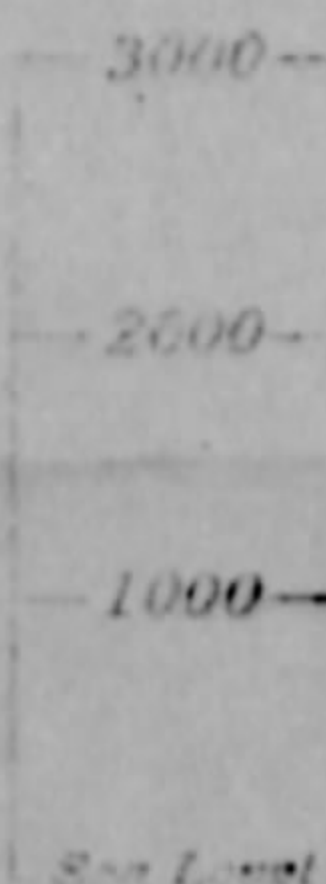
(Joins 220) 85° 6' W

7° W 84° G

D 48°  
(Joins 265)

C 47°

ELEVATIONS  
IN FEET



CAUTION - Gradient limits delimited by dashed contour lines indicate approximate relief only

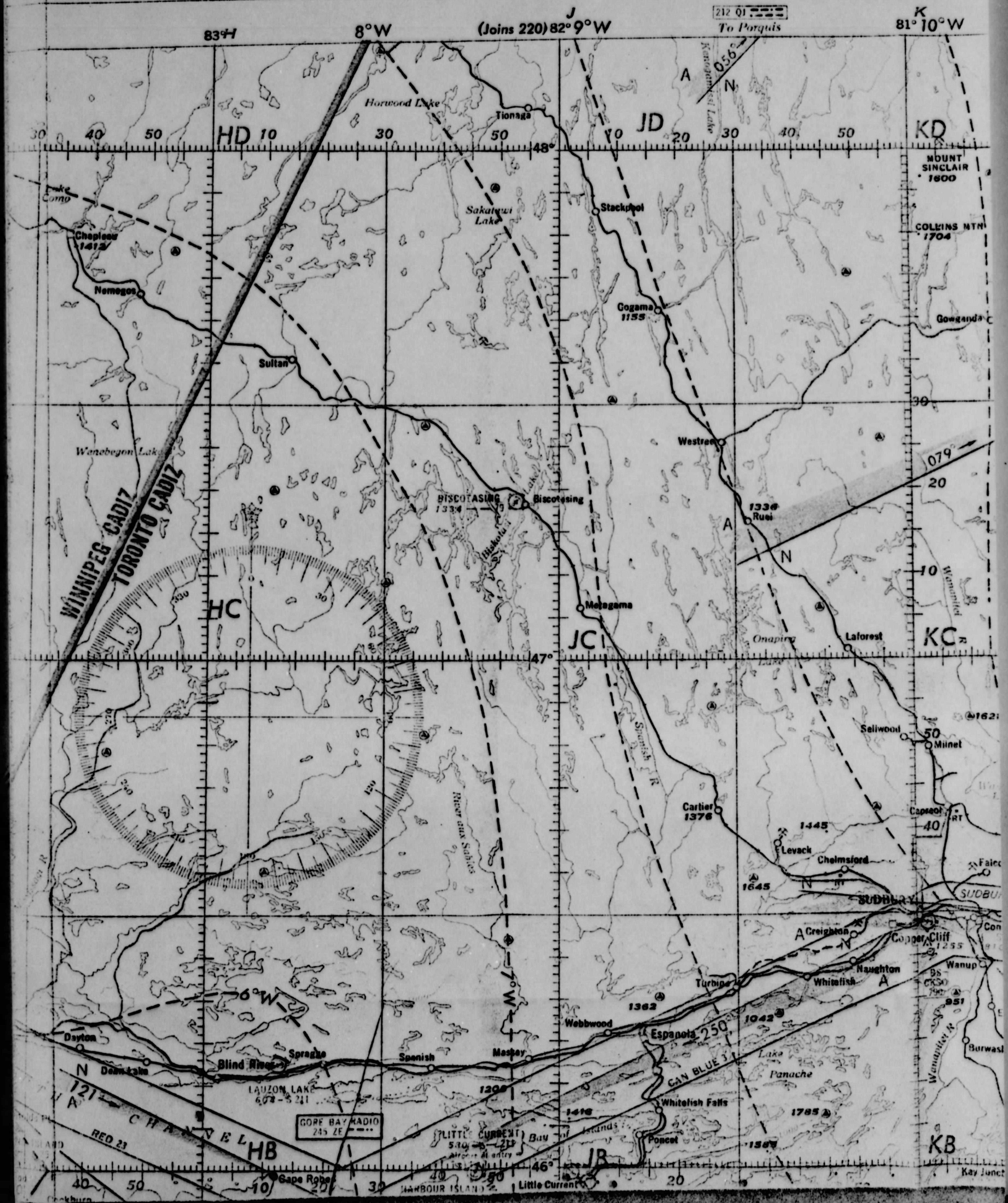
B 46°





ELEVATIONS IN FEET

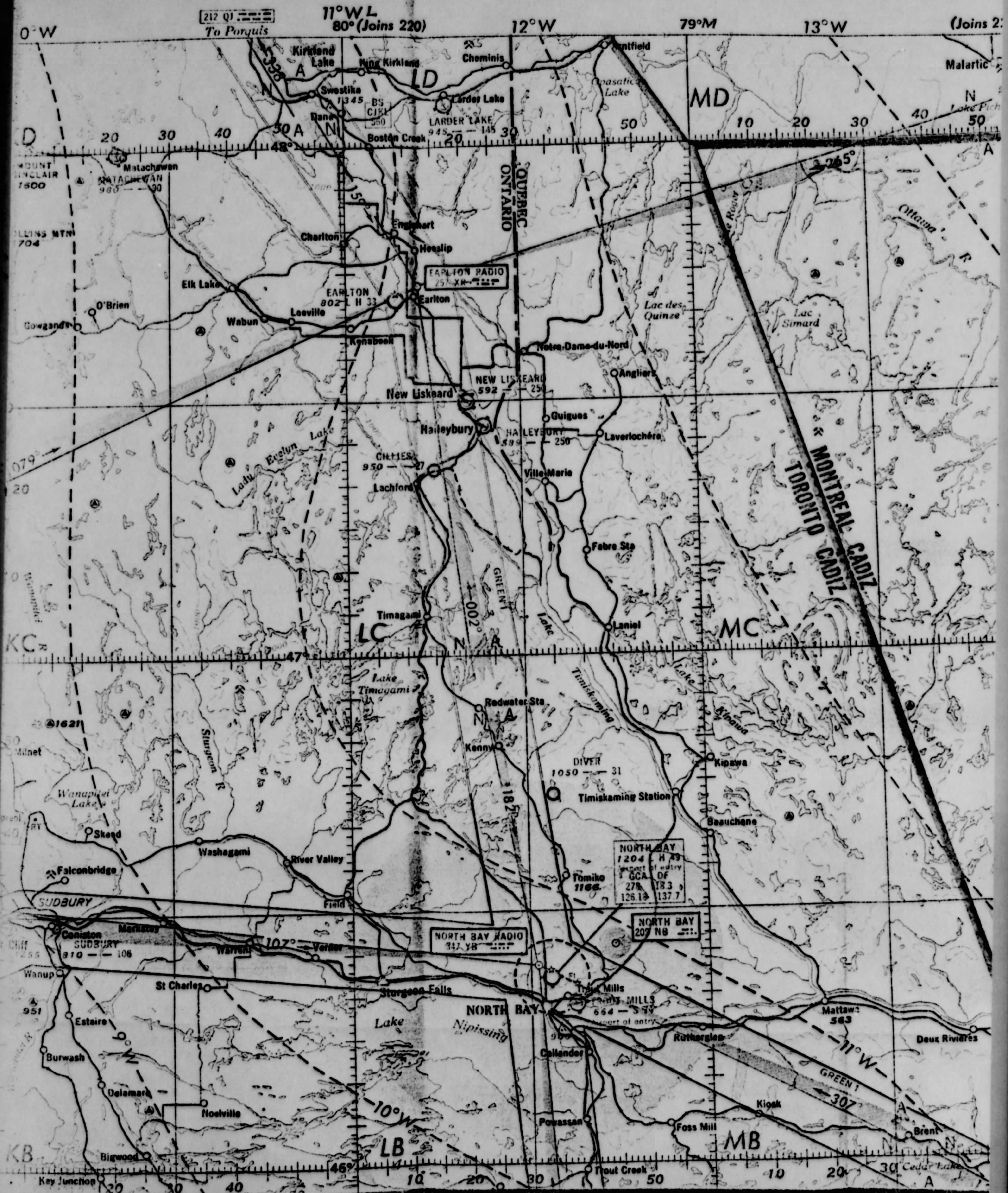
# WORLD AERONAUTICAL



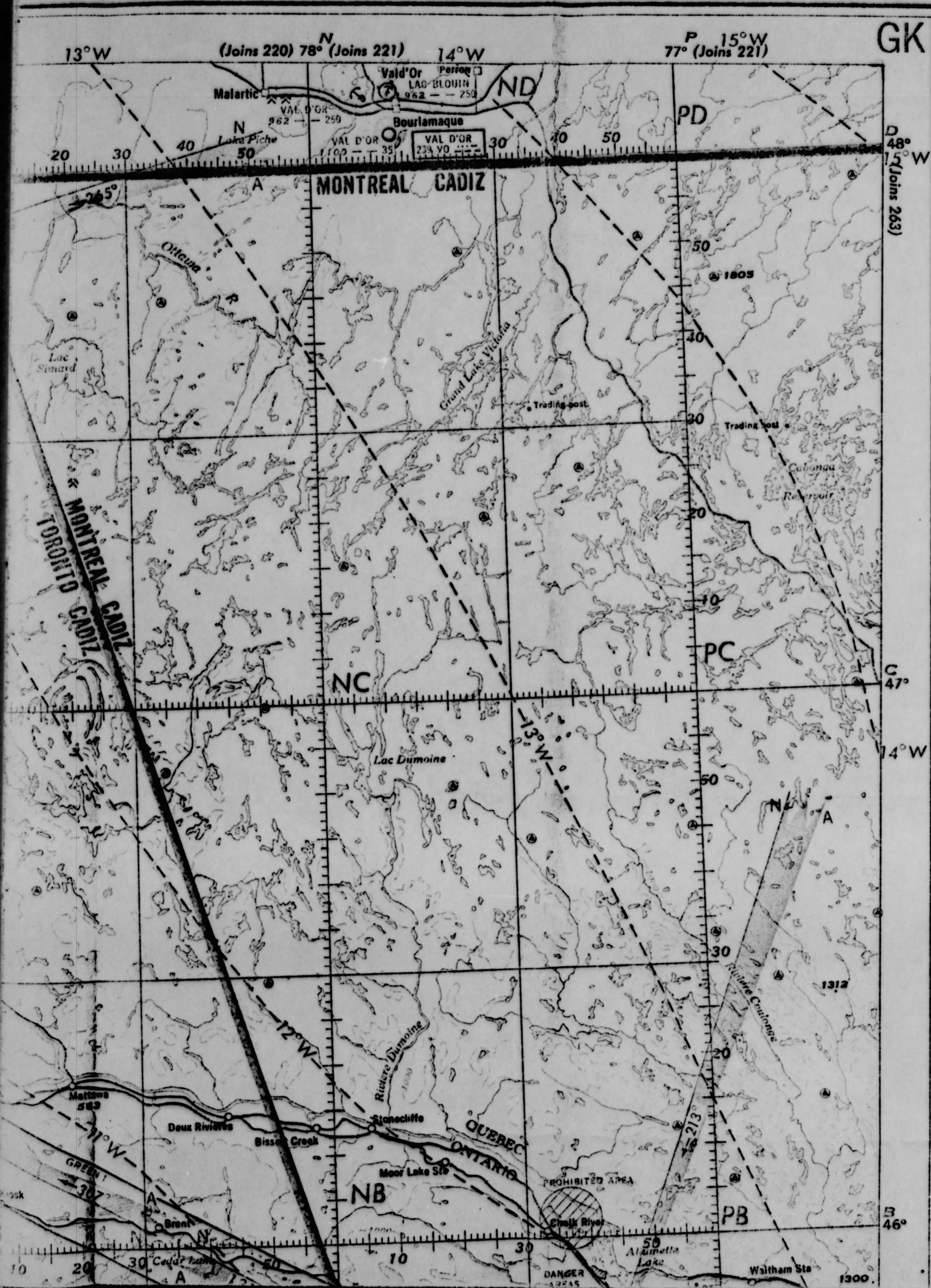


# UTICAL CHART

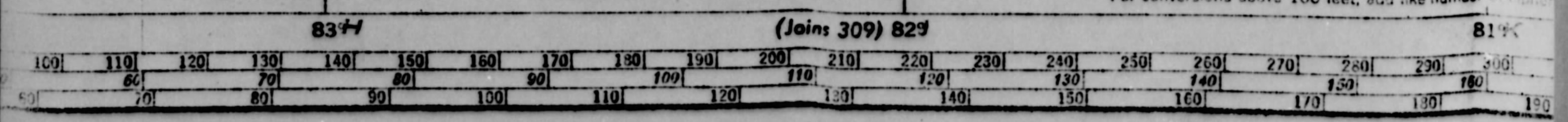
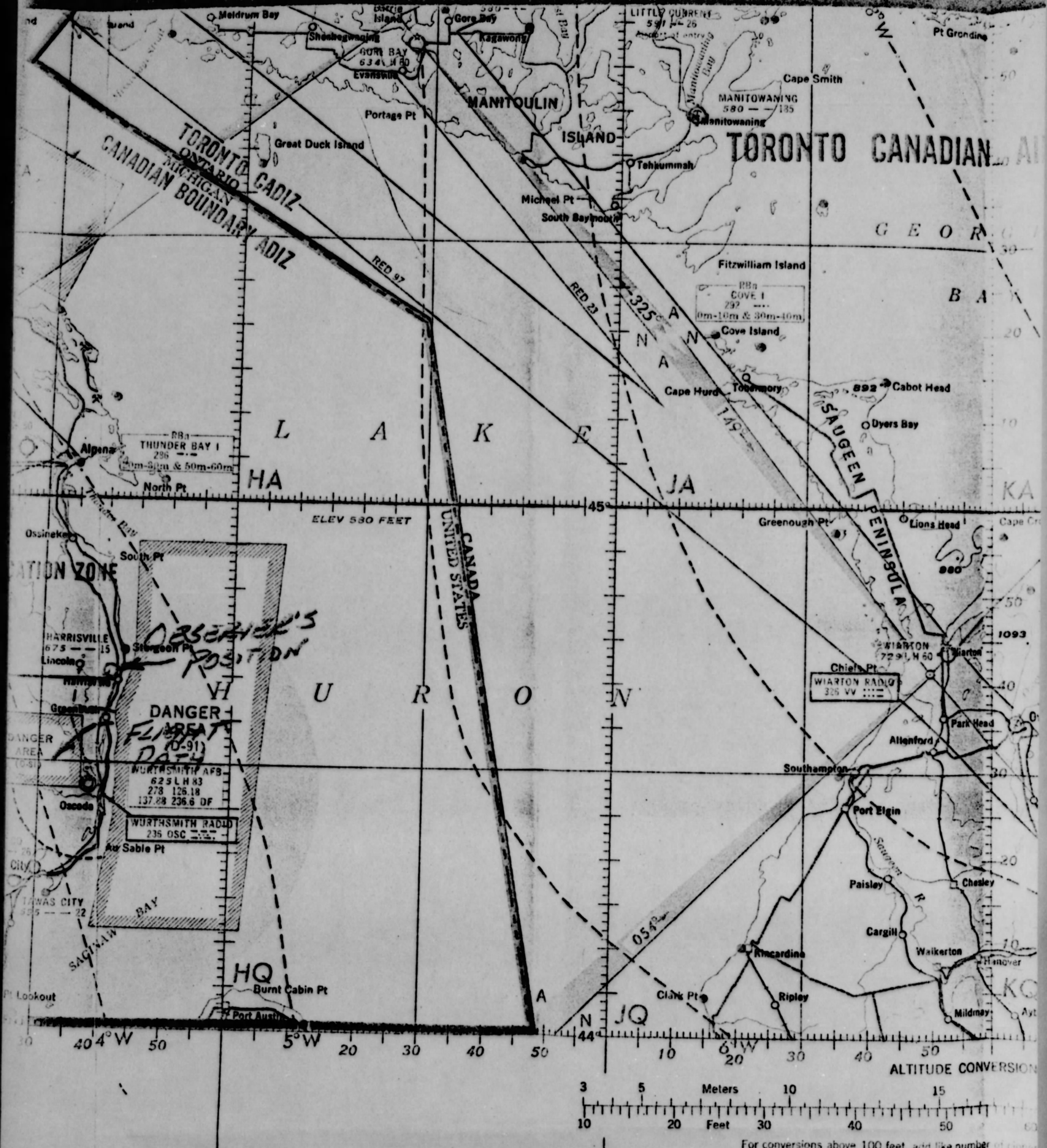
Compiled to ICAO Standards  
For ICAO number add 2000 to the chart number.



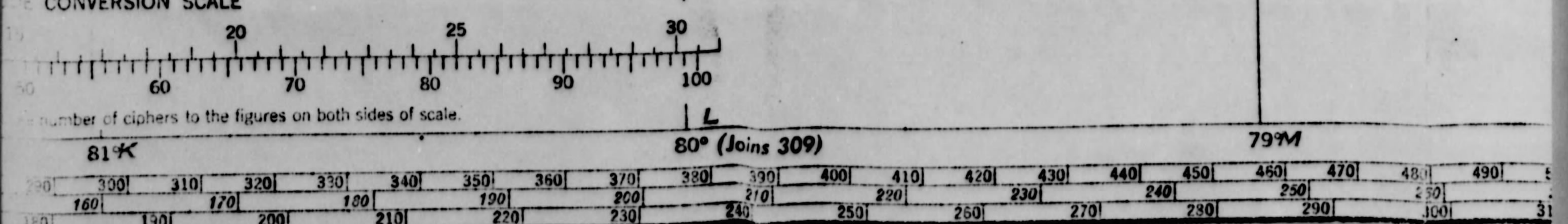
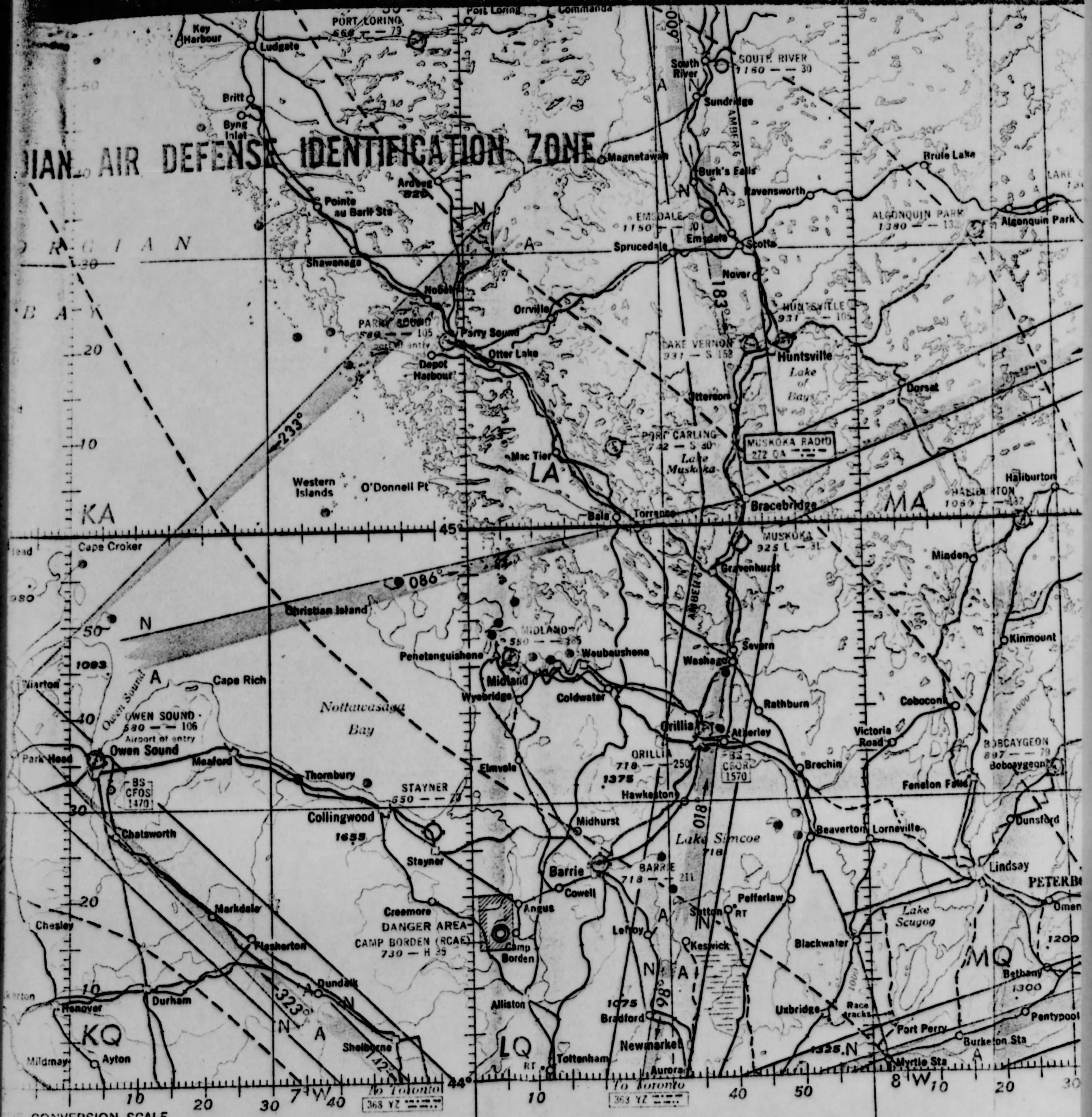












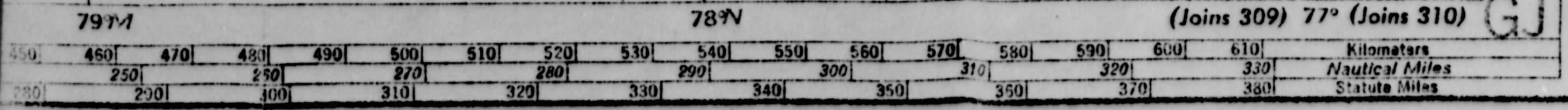
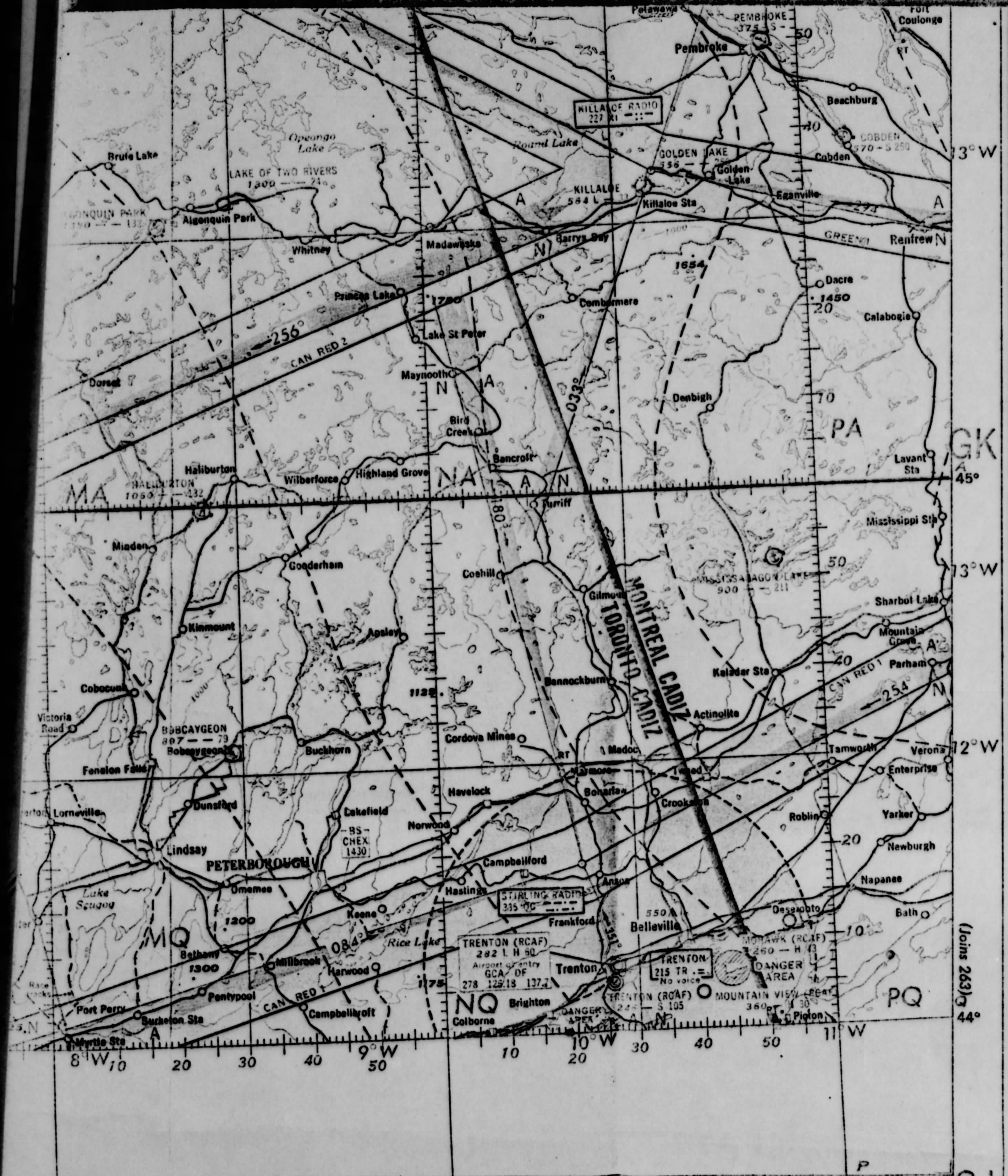
Note: It is requested that users of this chart indicate corrections and additions which come to their attention and comply with mailing instructions on reverse side.

SCALE 1:1,000,000  
GEOREF 12-52

Obstructions 500 feet or higher above ground   
Obstructions less than 500 feet above ground

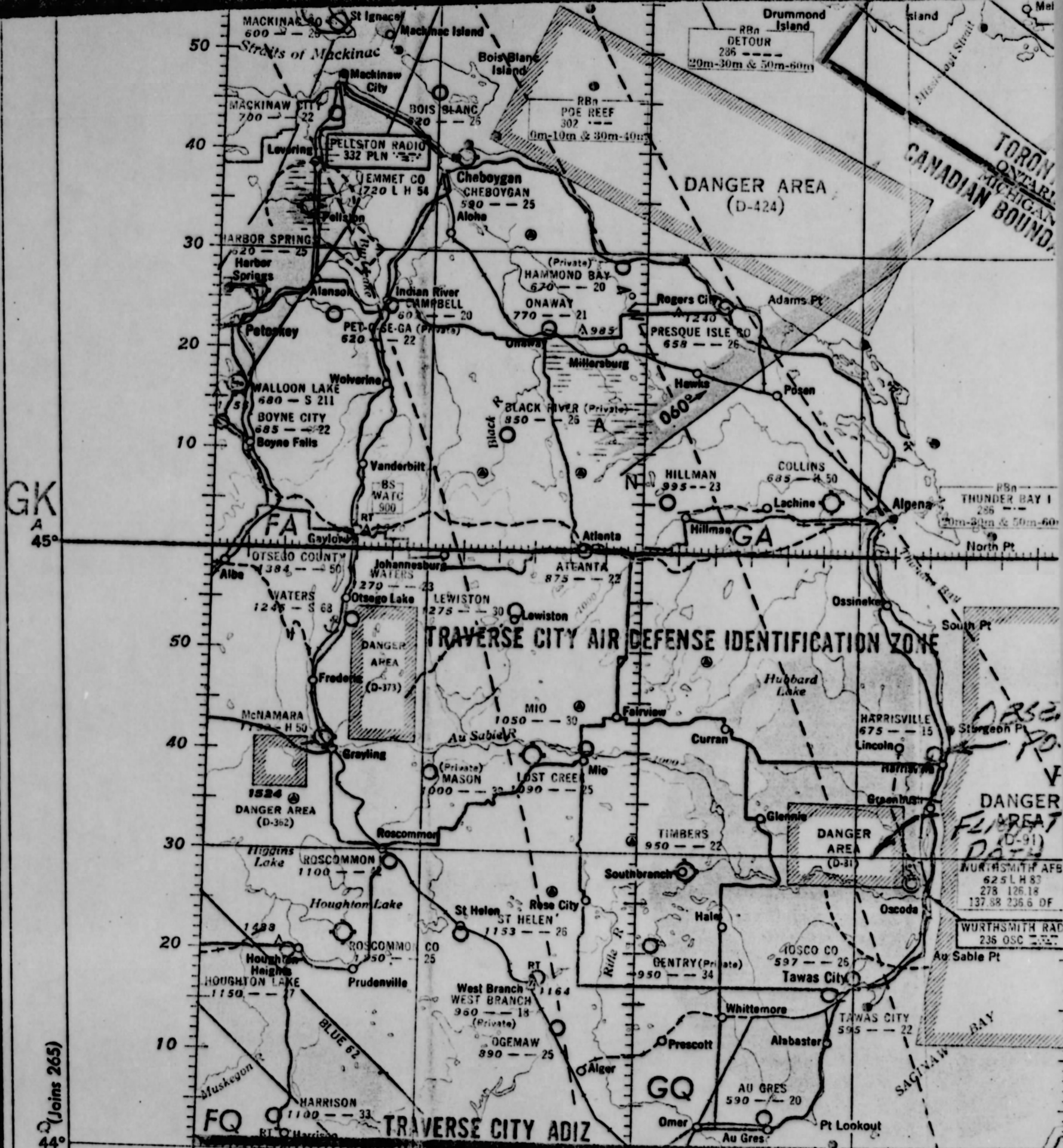




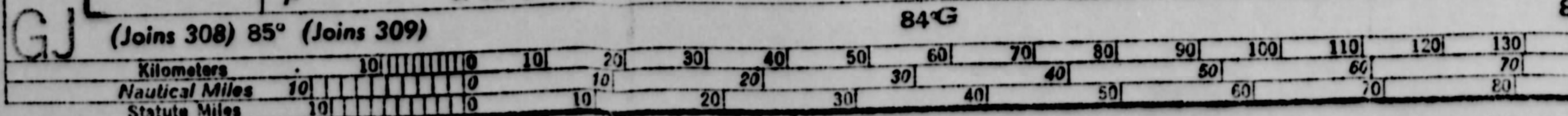


SCALE 1:1,000,000  
 GEOREF 12-52  
 17TH EDITION Consult appropriate NOTAMS and Radio Facility Charts for changes in aeronautical information on this chart after May 6, 1953  
 Next edition is scheduled at approximately six months  
*Amel #1.*  
**GEORGIAN BAY (264)**  
 CANADA - UNITED STATES  
 U.S. AIR FORCE EDITION





TO REFERENCE BY THE GEOREF (SHOWN IN BLUE) TO MINUTES  
 (Select nearest intersection south and west of point)  
 Sample Point: TWEED  
 1. GJ identifies basic 15° quadrangle  
 2. NQ identifies 1° quadrangle  
 3. 41 identifies Georef minute of longitude  
 4. 27 identifies Georef minute of latitude  
 5. Sample reference: GJNQ4127



(264)

PRICE 25 CENTS

Principal Sources: Canadian Government, U. S. Geological Survey,  
 U. S. Dept. of Agriculture, Civil Aeronautics Administration,  
 and the U. S. Coast and Geodetic Survey.

GOLDEN ANNIVERSARY  
 WRIGHT BROS.



# AERONAUTICAL CHART SUPPLY

To insure that the airman has the latest information available, U. S. World Aeronautical Charts are revised at six-month periods and the Alaskan World Aeronautical Charts are revised at twelve-month periods.

Chart users are advised to check the list Dates of Latest Prints on display with authorized agents.

## CIVIL CHART SUPPLY

Authorized agents for the sale of aeronautical charts have been appointed at certain airports and principal cities throughout the United States. The charts may also be obtained from the Director, U. S. Coast and Geodetic Survey, Washington 25, D. C.

## MILITARY CHART SUPPLY

(Ref: AF Reg. 67-3)

1. Aeronautical Charts, Maps and Publications distributed by the Aeronautical Chart and Information Center are indexed or listed in the current edition of the "USAF Catalog of Aeronautical Charts and Aeronautical Information Publications". A Bulletin is also published twice monthly which contains important information such as new editions of charts available, replacement charts, hazardous charts, chart correction notices and other pertinent information pertaining to charts and supply.

### 2. Requisitioning.

a. Outside Continental United States: USAF activities are to submit requisitions to the appropriate Aeronautical Chart and Information Office located within the applicable theater, in accordance with existing theater directives.

b. Within Continental United States: USAF activities are to submit requisitions to Commanding Officer, Aeronautical Chart and Information Center, 2nd and Arsenal Sts., St. Louis 18, Missouri, Attention: Distribution Division. Requisitions will be submitted on available requisition forms or by letter in quadruplicate. When demand is urgent, wire service may be used. Requisitions submitted from a Base or Station will bear the signature, or approval by indorsement, of the Operations officer. Requisitions from Air Force, Wing, or Command Headquarters will bear the signature of the appropriate staff officer. Quantities of charts and maps requested are to be such as to assure the maintenance of a thirty (30) day supply at all times, but not to exceed a sixty (60) day supply.

3. USAF Requirements for Special Purpose Maps and Charts: Maps and charts for special purposes, specific missions, and also those maps and charts published by other government agencies which may not be listed in the principal types of aeronautical charts in the current edition of the "USAF Catalog of Aeronautical Charts and Aeronautical Information Publications" should be requisitioned from USAF Aeronautical Chart and Information Center, when the request originates in the United States. For those USAF requests originating outside the continental United States, the applicable theater USAF Aeronautical Chart and Information Office should be contacted. Charts will be furnished, if available, when sufficiently identified in requisitions as to name or number, scale, projection and publisher. If this information is unknown to requestor, a description of the information required on chart or map should be furnished.

4. Obsolete Charts: Aeronautical charts rendered obsolete by printing of a new edition shall be salvaged if not practicable to correct for conformity with new edition. Disposition is to be made in accordance with provisions of AFR 67-3. Disposition of classified charts is to be made in accordance with provisions of AFR 205-1.

## CORRECTION INSTRUCTIONS

1. 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, drainage, relief and cultural features (roads, canals, power lines, etc.) on the face of the chart, on an overlay of the area, or under "Remarks" below. In reporting elevation corrections, state method used by observer in making the determination.

- Mark correction on face of chart or under "Remarks" below.
- Fold chart along regular fold lines, but with back out.
- Make an extra fold along dotted line and staple at points so marked.
- Fill in the return address and drop the chart in any U.S. mail box. Postage is not required.

Remarks: .....

.....

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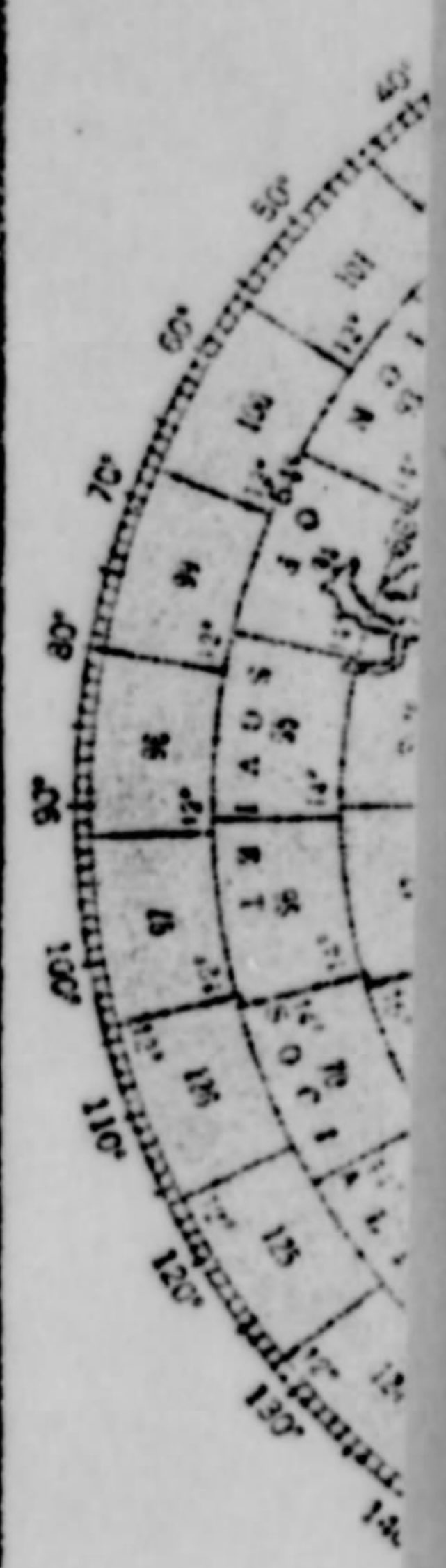
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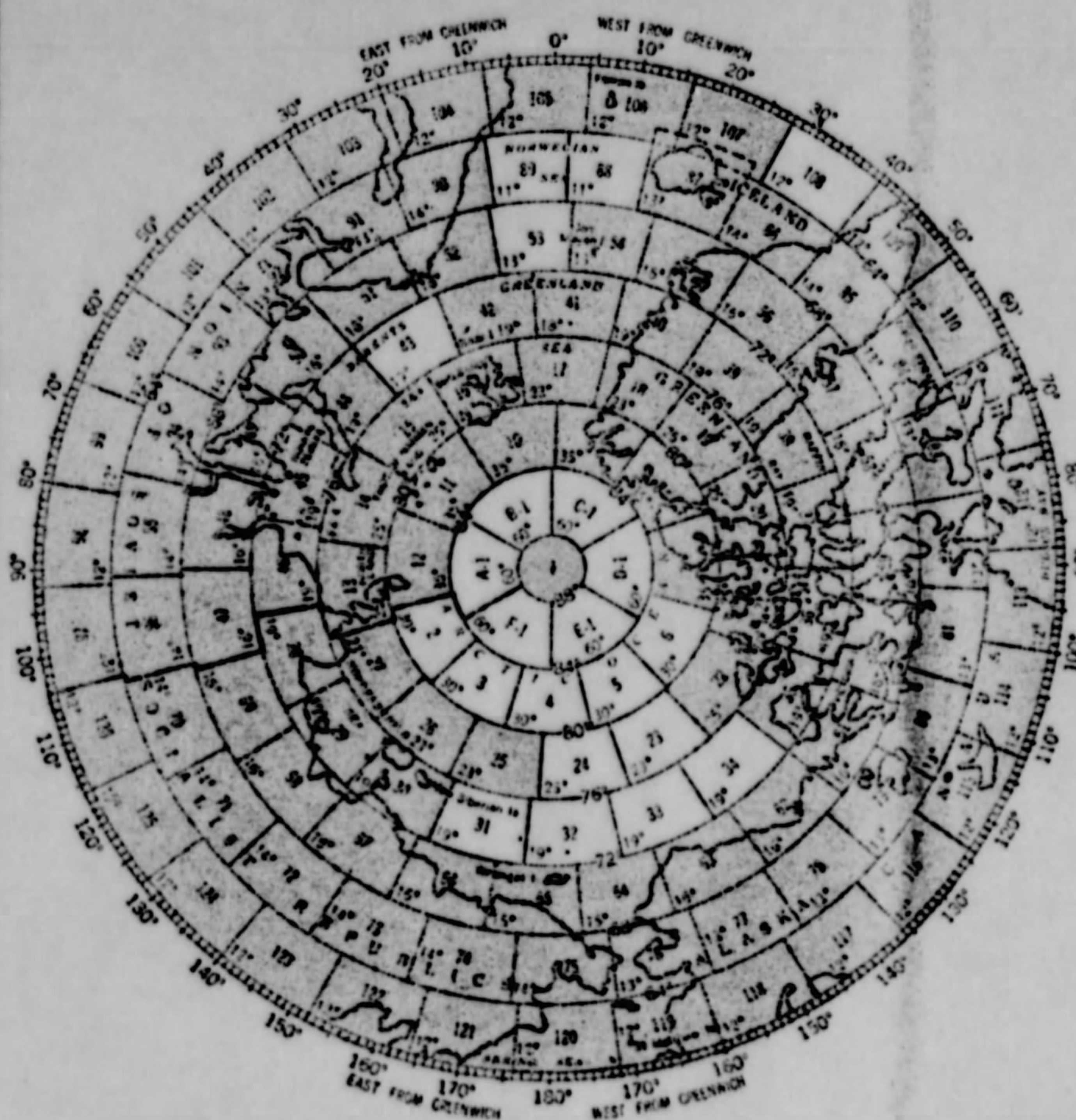
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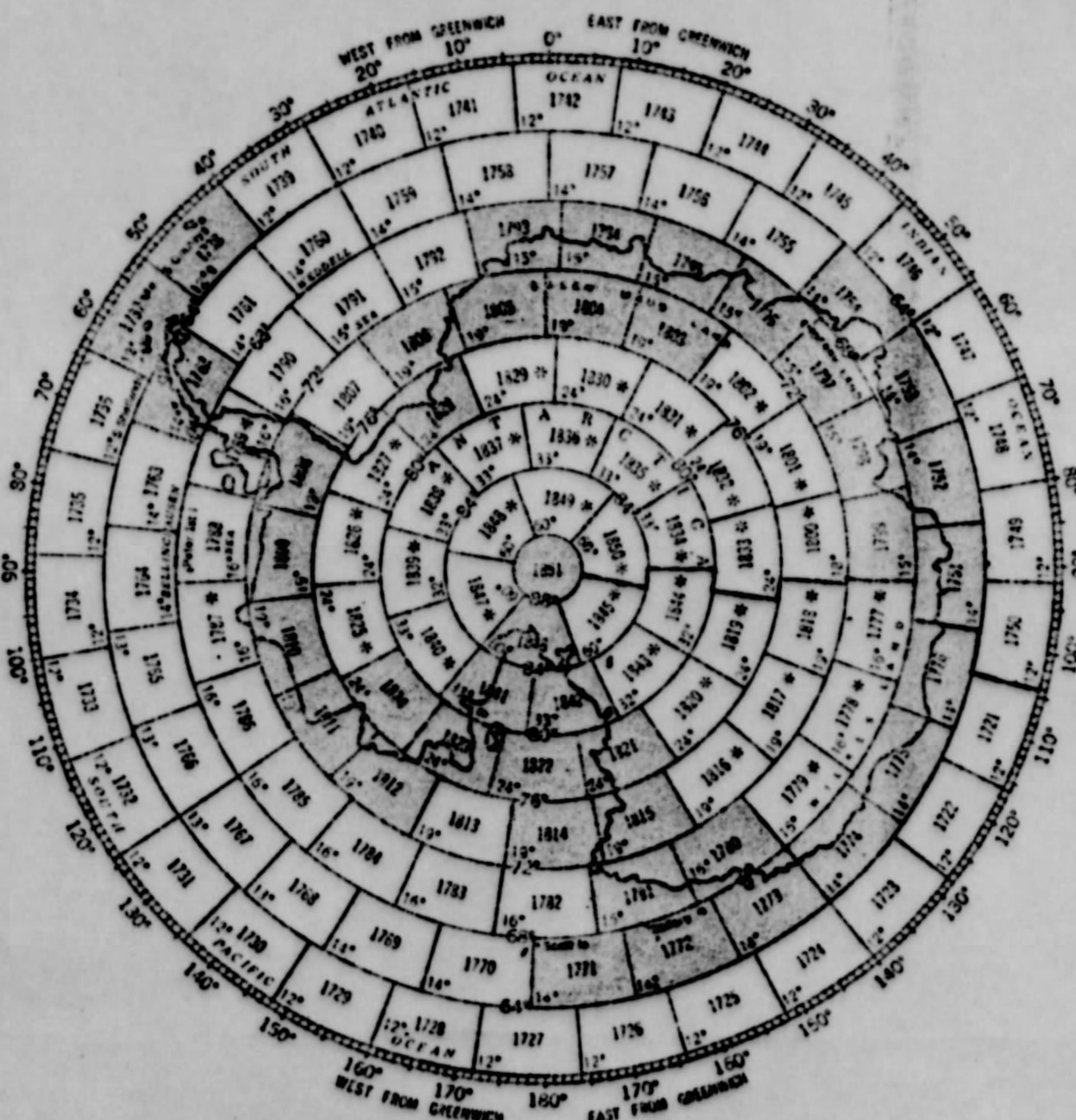
\*Indicate  
charts  
charts



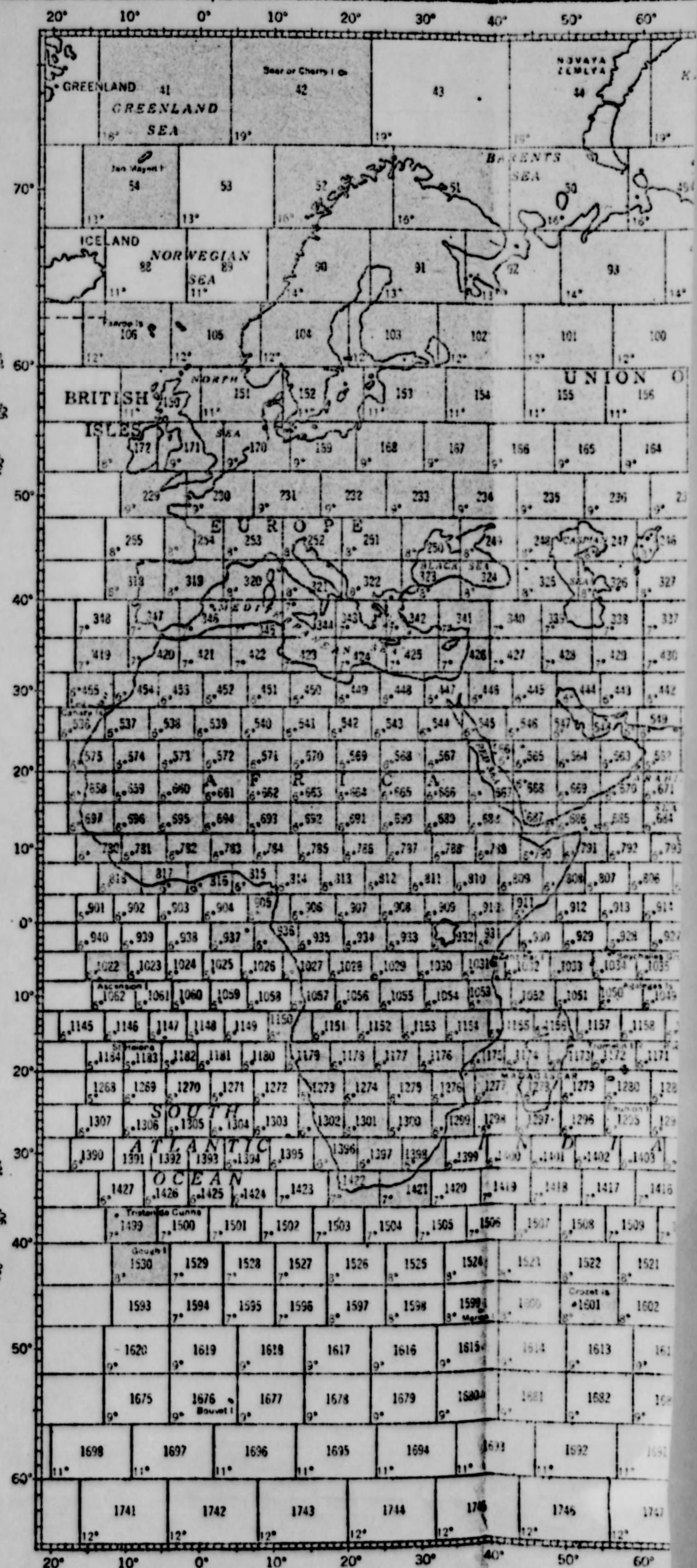
## NORTH POLAR AREA



## SOUTH POLAR AREA



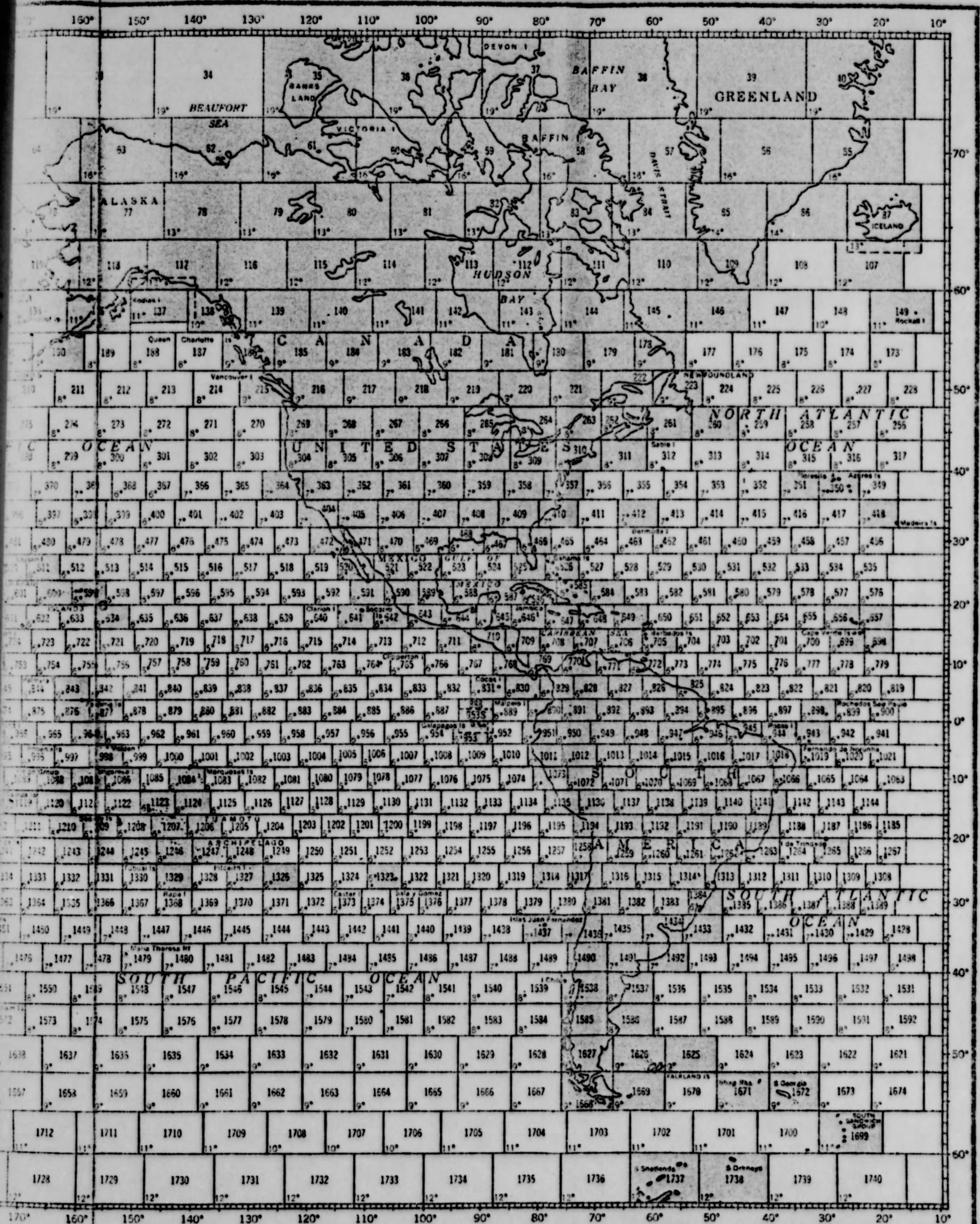
\*Indicates that there is not sufficient information available to compile charts in this area at a scale of 1:1,000,000. Requisitions for these charts will be filled with the appropriate Universal Water Chart.











Charts published ☐

Charts not published ☐

### UNIVERSAL WATER CHARTS

Universal Water Charts (Scale 1:1,000,000; size 29 x 22 inches) covering 4° of lat. have been published for use in place of the World Aeronautical Charts in water areas. The user must insert the appropriate long. values for the particular area desired. Water tint is printed within the normal geographical limits and the chart is designed for use in both north and south latitudes.

NOTE: Requisition these charts by name and latitude interval.

Example: WAC-225 would be **WATER-48/52**



FROM \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

OFFICIAL BUSINESS  
PERMIT NO. 1009

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

MAKE EXTRA FOLD HERE TO RETURN TO DIRECTOR, USC&GS

### U. S. DANGER AREAS ON WORLD AERONAUTICAL CHART 264

| NO.   | NAME             | ACTIVITY            | USING AGENCY                  | ALTITUDE  | TIME   |
|-------|------------------|---------------------|-------------------------------|-----------|--------|
| D-81  | Oscoda           | Bombing and Gunnery | Wurtsmith AFB, Mich.          | Unltd.    | Days   |
| D-91  | Upper Lake Huron | Aerial Gunnery      | Wurtsmith AFB, Mich.          | Unltd.    | Days   |
| D-362 | Lake Margrethe   | Small Arms Firing   | Hdqs. 5th Army, Chicago, Ill. | To 2,000  | Unltd. |
| D-373 | Camp Grayling    | Artillery Firing    | Hdqs. 5th Army, Chicago, Ill. | To 20,000 | Unltd. |
| D-424 | Hammond Bay      | Air-to-Air Gunnery  | Kinross AFB, Mich.            | Unltd.    | Days   |

Altitude given in feet.    AR - Airspace Reservation (Prohibited)    C - Caution    D - Danger    W - Warning    5-6-53

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, extreme caution should be exercised by pilots flying through such areas.



# AERONAUTICAL SYMBOLS

## AERODROMES

### Aerodromes with facilities

LAND

WATER



Civil



Joint Civil and Military

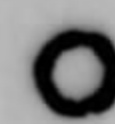


Military

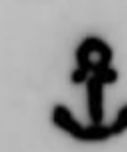
### Aerodromes with emergency or no facilities

LAND

WATER



Landing Area



Sheltered Anchorage

## AERODROME DATA AND LANDING FACILITIES INFORMATION

LAND

WATER

**BARGERSVILLE**  
908 L H 41  
Airport of entry  
GCA SYSTEM  
278 126.18

908 Elevation in feet  
L Minimum lighting  
H Hard surfaced runway  
41 Length of longest runway  
in hundreds of feet

00 Elevation in feet  
L Minimum lighting  
S Normal sheltered take-off area  
62 Length of longest runway  
in hundreds of feet

**NAS ANACOSTIA**  
00 L S 62  
2870

The facility code character is replaced by a dash if specific information is not available or if the facility itself is not available.

GCA SYSTEM - Ground Control Approach System. Other controlled approach systems by appropriate abbreviation.  
278 126.18 2870 - Control tower transmitting frequencies

## AIR NAVIGATION LIGHTS

Rotating Light.....★

Flashing Light (With code).....FI ★

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

Lightship.....

Rotating Light (With course lights and site number).....12 ★

Marine Light.....Occ W R G

Flashing Light.....FI ★

F—Fixed Qk FI—Quick Flashing Occ—Occulting Gp—Group W—White B—Blue SEC—Sector  
FI—Flashing I Qk FI—Interrupted Quick Flashing Alt—Alternating R—Red G—Green (U)—Unwatched sec—Second

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.....1219 ▲

Reporting Point (Compulsory).....▲

Obstruction, 500 feet or higher above ground.....1937 ▲  
(Numerals indicate elevation above sea level of top)

Reporting Point (Non-compulsory).....▲

Group Obstruction.....▲

Prominent Transmission Line.....—T—T—

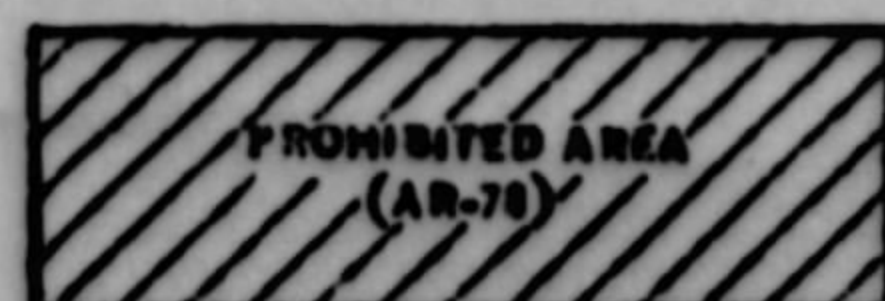
Ocean Station Vessel (Normal position).....

Mooring Mast.....

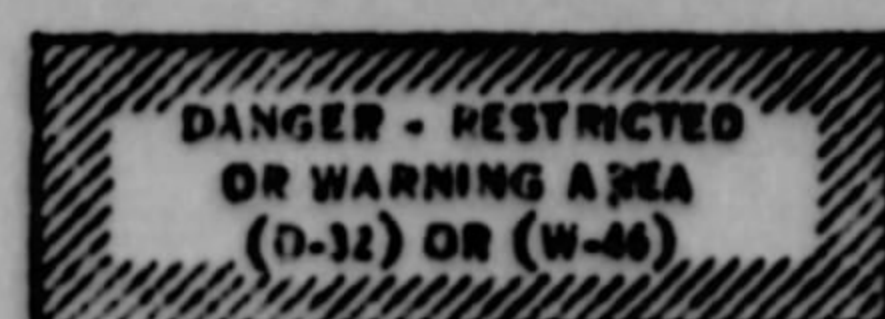
International Boundary.....  
(Closed to passage of aircraft except through air corridor)

Isogonic Line.....—4°E—  
Values for 1950

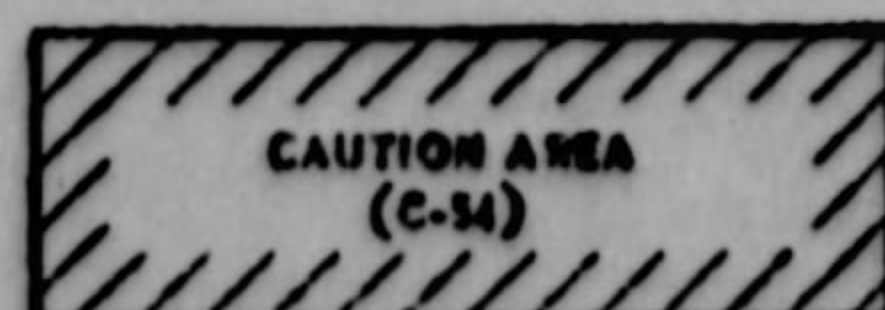
Restricted areas are numbered, and are indicated on the charts as follows:



Prohibited Area — Flight of aircraft prohibited except by specific authority of using agency



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



Caution Area — Visible hazards to air navigation

TO AVOID  
GE. 5300

STAPLE HERE

TIME

Days

Days

Unltd.

Unltd.

Days

5 6 53

5 6 53

5 6 53



# AERONAUTICAL SYMBOLS

## RADIO FACILITIES

All radio facility data are printed in blue with the exception of certain LF/MF facilities such as tower frequencies, radio ranges and associated airways, which are printed in magenta.

Methods of indicating specific voice and CW calls are shown below

Use of the word "Radio" within the box indicates voice facilities.

Radio Range (With voice) --- BALTIMORE RADIO 257 BAL

Radio Communication Station (With voice) --- CS GOWEN RADIO 4470

Radio Range (Without voice) --- ELGIN 209 VPS No voice

Radio Communication Station (Without voice) --- CS KAZAN 5200 CKNX No voice

Nondirectional Radiobeacon (With voice) --- DOUGLAS RADIO 251 DGW

Radio Broadcasting Station --- BS CFRB 1010

Nondirectional Radiobeacon (Without voice) --- DIXIE 388 DXE No voice

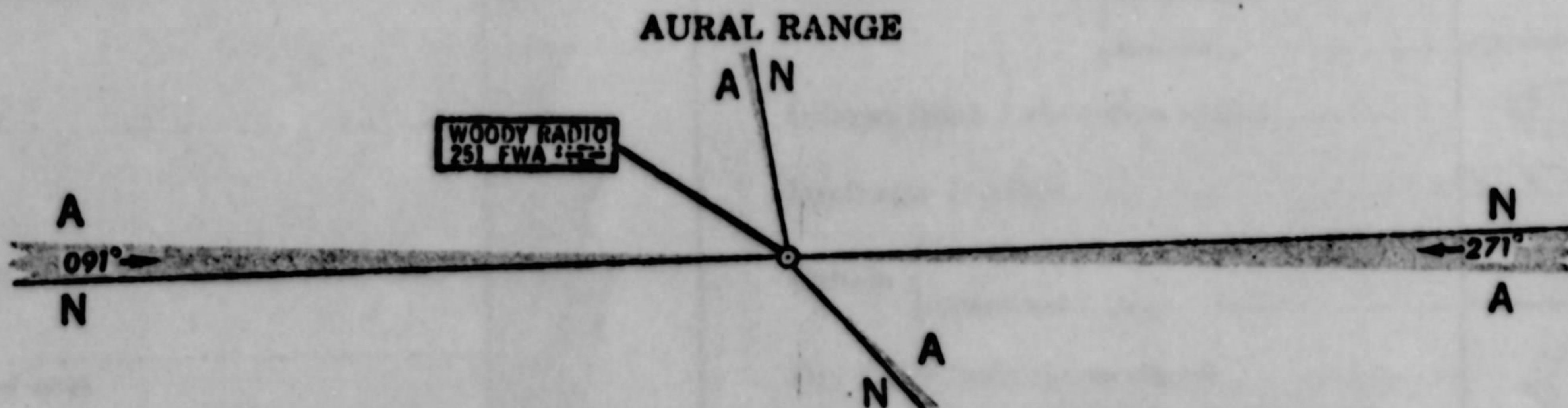
Radar Beacon (Racon) --- RACON 3256 2-1-2

Marine Radiobeacon (Without voice) --- RBN ASHTABULA 314 0m-10m & 30m-40m

Radio Fan Marker Beacons --- 100 watts NOTT, 5 watt DATES, DIXIE

Radio Direction Finder (Without voice) --- DF McGRATH 2912 4220 No voice

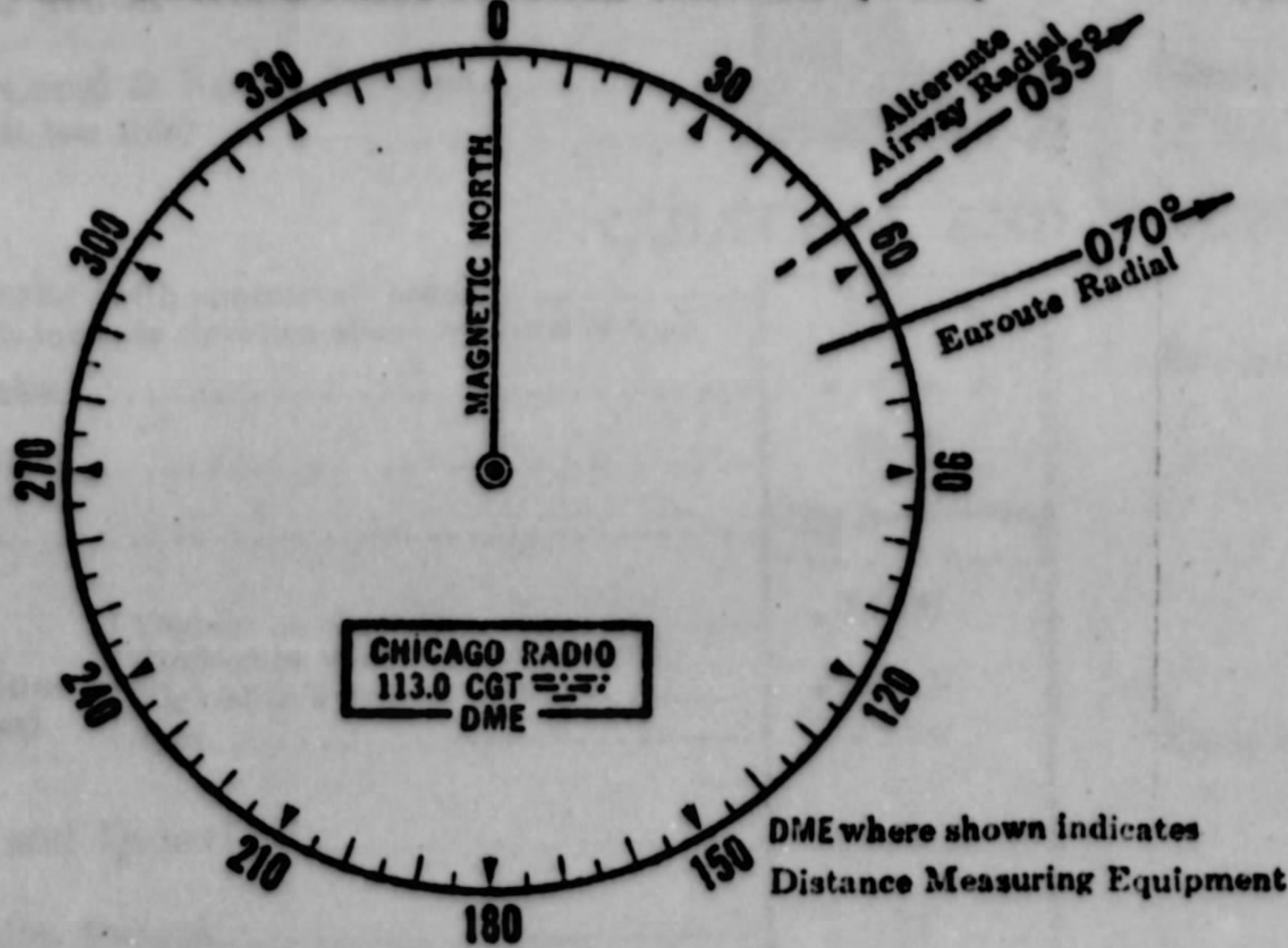
Radio Direction Finder (With voice) --- DF KODIAK DF HOMER 121.5



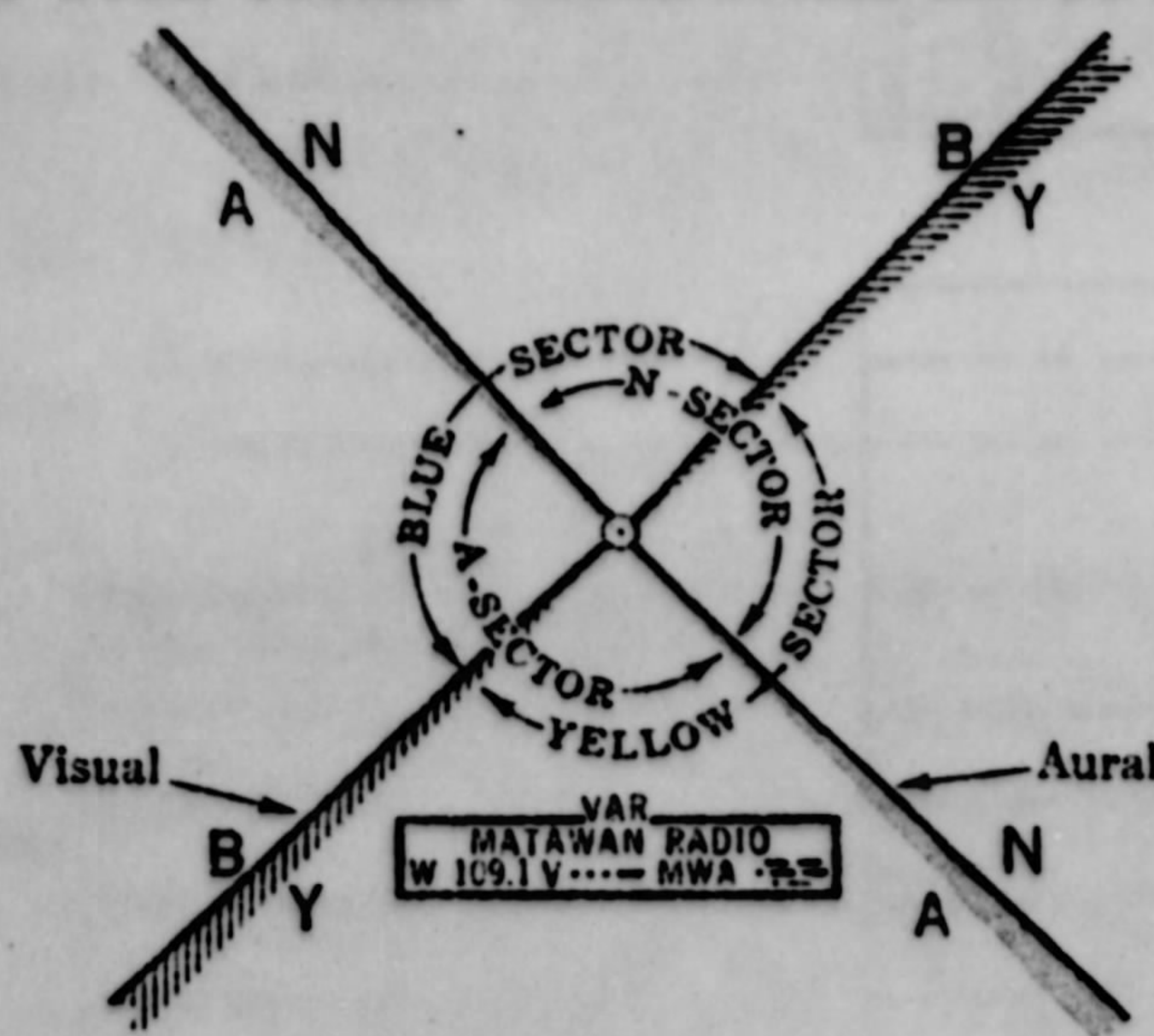
The heavy line indicates the "N" quadrant. The bearings shown are magnetic and the magnetic variation at the position of the ground station is used for computing them.

### VHF OMNI-DIRECTIONAL RANGE (VOR)

### VHF FOUR COURSE VISUAL-AURAL RANGE (VAR)

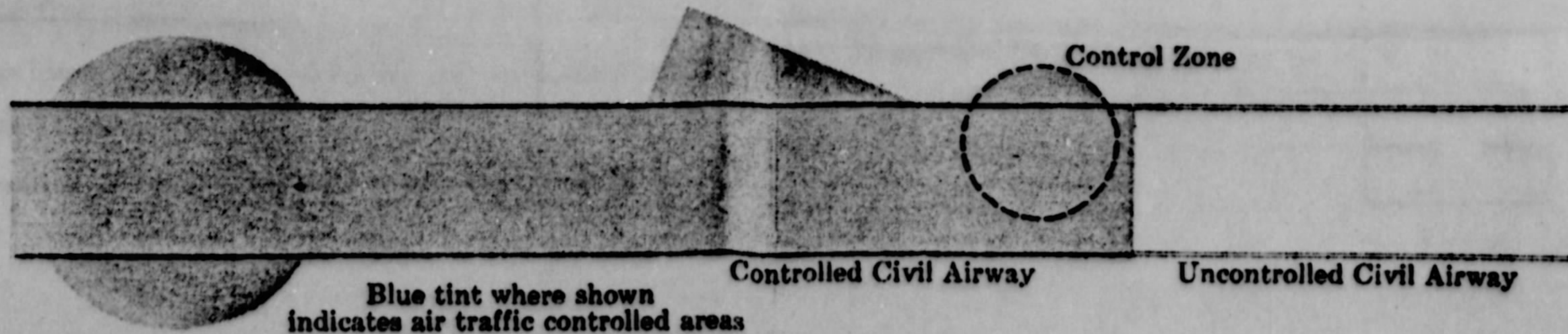


Bearings are magnetic from the station  
Radius of circle is 15 nautical miles.



Letter preceding frequency in box  
indicates channel identification.

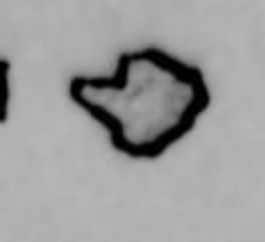
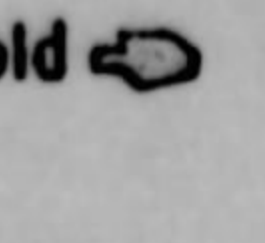
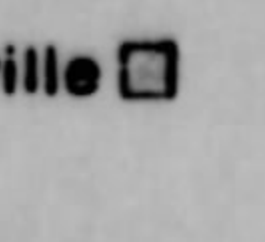
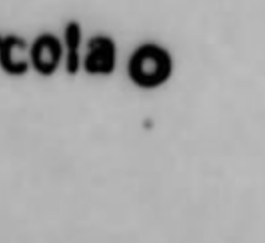
## AIR TRAFFIC CONTROL



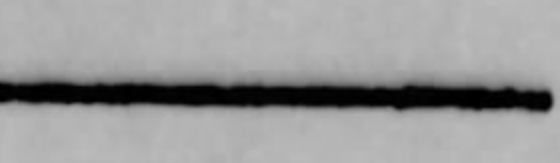
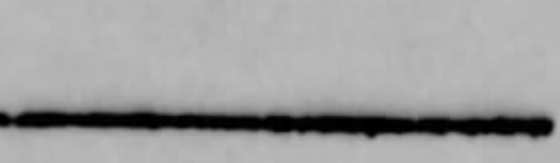
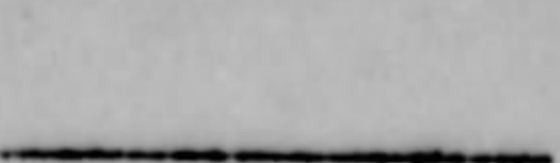
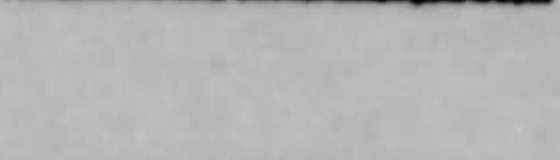


# TOPOGRAPHICAL SYMBOLS

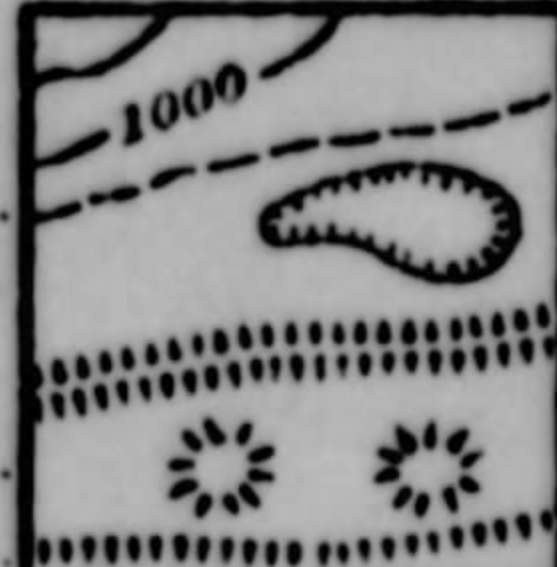
## CITIES AND TOWNS

|                         |           |                                                                                    |
|-------------------------|-----------|------------------------------------------------------------------------------------|
| Metropolitan Areas..... | NEW YORK  |  |
| Large Cities.....       | RICHMOND  |  |
| Cities.....             | ARLINGTON |  |
| Small Cities.....       | Freehold  |  |
| Large Towns.....        | Corville  |  |
| Towns & Villages.....   | Arcola    |  |

## HIGHWAYS AND ROADS

|                                                 |                                                                                     |
|-------------------------------------------------|-------------------------------------------------------------------------------------|
| Dual Lane and Super Highways.....               |  |
| Primary Roads.....                              |  |
| Secondary Roads.....                            |  |
| Trails.....                                     |  |
| U. S. Road Markers.....                         |  |
| National, State or Provincial Road Markers..... |  |
| Road Names.....                                 | ALASKA HIGHWAY                                                                      |

## RELIEF FEATURES

|                                   |                                                                                                                    |                                                                                    |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Contours                          | <ul style="list-style-type: none"> <li>Reliable.....</li> <li>Approximate.....</li> <li>Depression.....</li> </ul> |  |
| Levees or Eskers.....             |                                                                                                                    |                                                                                    |
| Hachures.....                     |                                                                                                                    |                                                                                    |
| Bluffs, Cliffs & Escarpments..... |                                                                                                                    |                                                                                    |

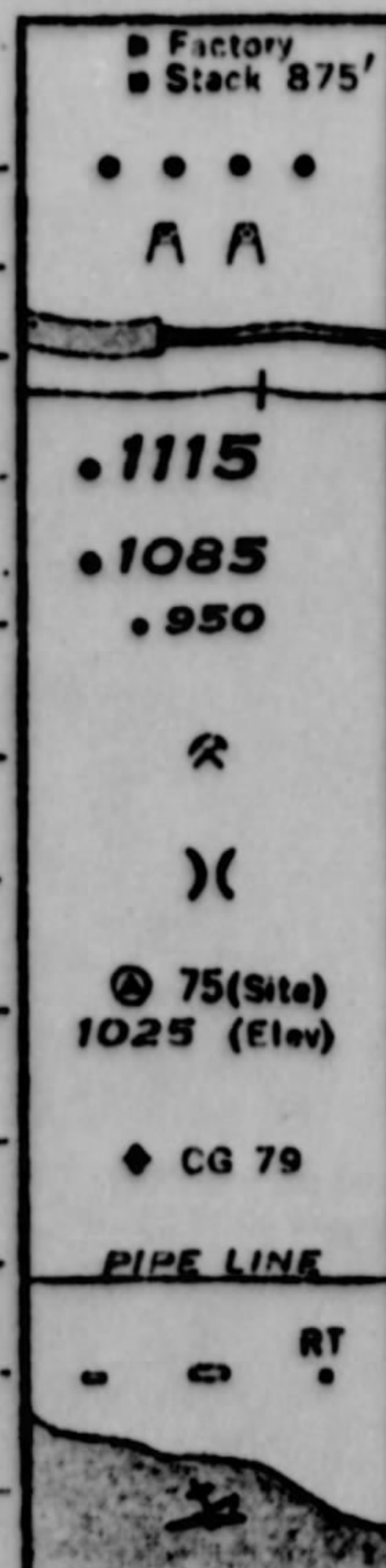
|                |                                                                                                       |                                                                                     |
|----------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Sand           | <ul style="list-style-type: none"> <li>Dunes.....</li> <li>Areas.....</li> <li>Ridges.....</li> </ul> |  |
| Lava Flow..... |                                                                                                       |                                                                                     |

## HYDROGRAPHIC FEATURES

|                                                         |                                                                                      |
|---------------------------------------------------------|--------------------------------------------------------------------------------------|
| Swamps & Marshes.....                                   |  |
| Tidal Flats<br>(Exposed at low tide).....               |                                                                                      |
| Danger Line.....                                        |                                                                                      |
| Rocks Awash.....                                        |                                                                                      |
| Shoals<br>(Exposed at low tide).....                    |                                                                                      |
| Springs.....                                            |                                                                                      |
| Wells & Water Holes.....                                |                                                                                      |
| Reefs, Coral & Rocky Ledges<br>(Awash at low tide)..... |                                                                                      |

|                                        |                                                                                                                                                        |                                                                                       |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Streams & Rivers                       | <ul style="list-style-type: none"> <li>Perennial.....</li> <li>Intermittent.....</li> <li>Probable or Unsurveyed.....</li> <li>Braided.....</li> </ul> |  |
| Intermittent Lakes (blue stipple)..... |                                                                                                                                                        |                                                                                       |
| Drainage Ditches.....                  |                                                                                                                                                        |                                                                                       |
| Canals                                 | <ul style="list-style-type: none"> <li>In use.....</li> <li>Abandoned.....</li> </ul>                                                                  |                                                                                       |
| Dry Lake Beds (brown stipple).....     |                                                                                                                                                        |                                                                                       |
| Sand Deposits in river bed.....        |                                                                                                                                                        |                                                                                       |
| Dry Washes (brown stipple).....        |                                                                                                                                                        |                                                                                       |
| Glaciers and Ice Caps.....             |                                                                                                                                                        |                                                                                       |

## CULTURAL AND MISCELLANEOUS

|                                                                                           |                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Landmarks (with appropriate note)<br>(Numerals indicate elevation above sea level of top) |                                                                                                 |
| Oil Tanks.....                                                                            |                                                                                                                                                                                     |
| Oil Fields.....                                                                           |                                                                                                                                                                                     |
| Dams.....                                                                                 |                                                                                                                                                                                     |
| Elevations<br>(In feet)                                                                   | <ul style="list-style-type: none"> <li>Highest on chart.....</li> <li>Highest on chart is devoid of tint.....</li> <li>Highest in a general area.....</li> <li>Spot.....</li> </ul> |
| Mines and Quarries.....                                                                   |                                                                                                                                                                                     |
| Mountain Passes.....                                                                      |                                                                                                                                                                                     |
| Lookout Stations (Elevation is base of tower).....                                        |                                                                                                                                                                                     |
| Coast Guard Stations.....                                                                 |                                                                                                                                                                                     |
| Pipe Lines.....                                                                           |                                                                                                                                                                                     |
| Race Tracks or Stadiums.....                                                              |                                                                                                                                                                                     |
| Stranded Wrecks.....                                                                      |                                                                                                                                                                                     |

|            |                                                                                                                                                                                                                                 |                                                                                       |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Boundaries | <ul style="list-style-type: none"> <li>International.....</li> <li>State &amp; Provincial.....</li> </ul>                                                                                                                       |  |
| Railroads  | <ul style="list-style-type: none"> <li>Abandoned or Under Construction.....</li> <li>Single Track.....</li> <li>Multiple Track.....</li> <li>Sidings &amp; Spurs.....</li> <li>Overpass.....</li> <li>Underpass.....</li> </ul> |                                                                                       |
| Bridges    | <ul style="list-style-type: none"> <li>Railroad.....</li> <li>Highway.....</li> </ul>                                                                                                                                           |                                                                                       |
| Tunnels    | <ul style="list-style-type: none"> <li>Railroad.....</li> <li>Highway.....</li> </ul>                                                                                                                                           |                                                                                       |