PROJECT 10073 RECORD CARD

1. DATE Sighting 0630 CST 26 Nov 57 Investigat 9 Dec 57

2. LOCATION 15-20 Mi W of Jolliet, Illinois

3. DATE-TIME GROUP
Local 0630 CST
GMT 26/1230Z

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

5. PHOTOS
- ☐ Yes
- ☐ No

6. SOURCE
Civilian, Indiana ANG Pilot

7. LENGTH OF OBSERVATION
10 minutes

8. NUMBER OF OBJECTS
one

9. COURSE
East

10. BRIEF SUMMARY OF SIGHTING
A 31 year old former USAF pilot, now an ANG Capt flew an F-86A at 40,000 ft on 26 Nov. While W of Jolliet, Ill at 0630 CST, he observed an obj about size of nickel first stationary, later disappearing eastward and slightly to the north. Source observed obj for about 10 minutes. When obj disappeared, source noticed 3 B-47's at 33,000 ft. Attempted to contact them but was not successful. When he sighted UFO he notified Chicago ARTC via radio. Rpt was conveyed to ADCC 30A Div WRAFS, Michigan.

11. COMMENTS Investigator contacted AC&W and FIS units in the area & two ADiv. No record of unusual sightings was found. No other persons appeared to have seen the object except the source. It appears probable that the B-47's at one time crossed the flight-path of the F-86. It also appears probable that their contrails reflected by the rising sun behind & below appeared to the F-86 pilot to be an unusual phenomena. As the sun rose sighting could have disappear

12. CONCLUSIONS
- ☐ Was Balloon
- ☐ Probably Balloon
- ☐ Possibly Balloon
- ☐ Was Aircraft
- ☐ Probably Aircraft
- ☐ Possibly Aircraft
- ☐ Was Astronomical
- ☐ Probably Astronomical
- ☐ Possibly Astronomical
- ☒ Other Prob Contrails of B-47
- ☐ Insufficient Data for Evaluation
- ☐ Unknown

ATIC FORM 329 (REV 26 SEP 52)

29 Nov 57 00 39

1 of 2 4E4
3-4X2c
DD

SQH043V SQA161 YMB103BWA102

RR RJEDDN RJEDSQ RJEPHQ RJEPNB

DE RJEDBW 56

R 271355Z

FM COMDR 30 ADIV DEF WRAFS

TO RJEDDN/COMDR ADC ENT AFB

RJEPNB/COMDR EADF STEWART AFB

RJEDSQ/COMDR ATIC WRIGHT PATTERSON AFB

RJEPHQ/DIRECTOR OF INTELLIGENCE USAF

BT

/UNCL/DI 18465. IN ACCORDANCE WITH 200-2 AFR, THIS UFOB

IS SUBMITTED:

1. A. FLAT

B. LARGE

C. SILVER

D. 1 (ONE)

E. NONE

F. LONGER THAN WIDE

G. MAKING CONTRAIL, OBSERVING A/C WAS NOT

H. NONE

PAGE TWO RJEDBW 56

1. EXCEPTIONAL ALT. & GREAT SPEED, ACUTE MANEUVERS

2. A. CAME INTO PILOT'S VIEW

B. 345 DEGREES FROM DEAD AHEAD

C. HIGH INTO THE EAST

D. CAME AT OBSERVER AT HIGH SPEED, SLOWED DOWN CHANGED COURSE
AND HEADED EAST

E. FADED FROM SIGHT

F. 10 MINUTES

3. A. VISUAL

B. NONE

C. PILOT OF F 86 AT 44,000 FEET

4. A. 1230Z

B. DAY

5. A. 40 MILES WEST OF JOLIET, ILL.

B. NONE

6. A. CAPT [redacted] VAN WERT MUNICIPAL APRT.
VAN WERT, OHIO, PHONE VAN [redacted]

7. A. CLEAR

8. NONE

9. NONE

4. A. 1230Z 26 1230Z NOV

B. ~~DAY~~ TWILIGHT

5. A. ~~40~~ 15-30 MILES WEST OF JOLIET, ILL.

B. NONE

6. A. CAPT [redacted], VAN WERT MUNICIPAL APRT.

VAN WERT, OHIO, PHONE VAN WERT [redacted] INDIANA ANA'L GD

7. A. CLEAR

8. NONE

9. NONE

TWX sent to 1006th A-S (Selfridge) for Preliminary investigation

(Selfridge this is "unidentified" a/c and not UFO)

PAGE THREE RJEDBW 56

10. NONE

11. NONE

12. NONE

13. NONE

BT

27/1857Z NOV RJEDBW

D

JOINT MESSAGEFORM

SECURITY CLASSIFICATION: UNCLASSIFIED

SPACE BELOW RESERVED FOR COMMUNICATION CENTER

PRIORITY

5 DEC 57 17 21Z

PRECEDENCE	TYPE MSG (Check)			ACCOUNTING SYMBOL	ORIG. OR REFERS TO	CLASSIFICATION OF REFERENCE
ACTION PRIORITY	BOOK	MULTI	SINGLE			
INFO			X	AF	DI-18465	UNCL

FROM: COMDR ATIC WPAFB

SPECIAL INSTRUCTIONS

TO: COMDR, ADC, ENT AFB, COLORADO SPRINGS, COLORADO
ATTN: DIRECTOR OF INTELLIGENCE

RJEDDN.

/UNCL/FROM: AFCIN-4E4

CITE UFO REPORT, DI-18465, DTD 27 NOVEMBER 57. RE USAF PILOT'S SIGHTING WHILE FLYING F-86 AT 44,000 FT NEAR JOLIET, ILLINOIS. REQUEST PRELIMINARY INVESTIGATION. OBJECT LARGE, FLAT, SILVER COLORED, HAD GREAT SPEED AND PERFORMED ACUTE MANUEVERS. PILOT REPORTS OBJECT CAME AT HIM AT HIGH SPEED AND THEN CHANGED COURSE. CLAIMS HE OBSERVED OBJECT FOR 10 MINUTES. BELIEVE THIS IS QUOTE UNIDENTIFIED AIRCRAFT UNQUOTE OF 100 SERIES, AND NOT UFO REPORT. HOWEVER, AS REPORT IS OFFICIAL FROM USAF PILOT, AND CONSIDERED IN A-1 CATEGORY, RESOLVING INCIDENT IS CONSIDERED WARRANTED IN VIEW OF CURRENT RASH OF UFO SIGHTINGS. DISREGARD, IF ACTION TAKEN.

COORDINATION:

AFCIN-4E4 [signature] DATE 3 Dec 57

AFCIN-4E [signature] DATE

DATE	TIME
03	1115
MONTH DEC	YEAR 57

WRITER

SYMBOL: AFCIN-4E4 [illegible] 03 57

TYPED NAME AND TITLE (Signature if required): Capt G.T. Gregory [signature]

PHONE: 69216 | PAGE NR. 1 | NR. OF PAGES 1

SECURITY CLASSIFICATION: UNCLASSIFIED

RELEASER

SIGNATURE [signature]

TYPED (or stamped) NAME AND TITLE

ROBERT E. O'CONNOR
Captain, USAF
Assistant Adjutant

DD FORM 1 MAY 53 173 REPLACES DD FORM 173, 1 OCT 49, WHICH WILL BE USED UNTIL EXHAUSTED

CIVILIAN, Ind ANG pilot

U. S. AIR FORCE TECHNICAL INFORMATION SHEET

This questionnaire has been prepared so that you can give the U. S. Air Force as much information as possible concerning the unidentified aerial phenomenon that you have observed. Please try to answer as many questions as you possibly can. The information that you give will be used for research purposes, and will be regarded as confidential material. Your name will not be used in connection with any statements, conclusions, or publications without your permission. We request this personal information so that, if it is deemed necessary, we may contact you for further details.

1. When did you see the object?

26 (Day) Nov (Month) 1957 (Year)

2. Time of day: 0630 (Hour) ____ (Minutes)

(Circle One): (A.M.) or P.M.

3. Time zone:

(Circle One): a. Eastern
(b. Central)
c. Mountain
d. Pacific
e. Other ____

(Circle One): a. Daylight Saving
(b. Standard)

4. Where were you when you saw the object?

on the Runway of Mitchell (Nearest Postal Address) ____ (City or Town) ____ (State or Country)

Additional remarks: 15 miles west to

5. Estimate how long you saw the object. 0 (Hours) 14 (Minutes) ____ (Seconds)

5.1 Circle one of the following to indicate how certain you are of your answer to Question 5.

(a. Certain)
b. Fairly certain
c. Not very sure
d. Just a guess

6. What was the condition of the sky?

(Circle One): a. Bright daylight
b. Dull daylight
(c. Bright twilight (Dawn))
d. Just a trace of daylight
e. No trace of daylight
f. Don't remember

7. IF you saw the object during DAYLIGHT, TWILIGHT, or DAWN, where was the SUN located as you looked at the object?

(Circle One): (a. In front of you) Slitely Right
b. In back of you
c. To your right
d. To your left
e. Overhead
f. Don't remember

ATIC FORM NO. 164 (13 OCT 54)

8. IF you saw the object, at NIGHT, TWILIGHT, or DAWN, what did you notice concerning the STARS and MOON?

8.1 STARS *(Circle One)*:

a. None
(b. A few)
c. Many
d. Don't remember

8.2 MOON *(Circle One)*:

a. Bright moonlight
b. Dull moonlight
(c. No moonlight — ~~pitch dark~~)
d. Don't remember

9. Was the object brighter than the background of the sky?

(Circle One): (a. Yes) b. No c. Don't remember

10. IF it was BRIGHTER THAN the sky background, was the brightness like that of an automobile headlight?: NA

(Circle One) a. A mile or more away (a distant car)?
b. Several blocks away?
c. A block away?
d. Several yards away?
e. Other

11. Did the object: *(Circle One for each question)*

a. Appear to stand still at any time?	(Yes)	No	Don't Know
b. Suddenly speed up and rush away at any time?	(Yes)	No	Don't Know
c. Break up into parts or explode?	Yes	(No)	Don't Know
d. Give off smoke?	Yes	(No)	Don't Know
e. Change brightness?	(Yes)	No	Don't Know
f. Change shape?	Yes	(No)	Don't Know
g. Flicker, throb, or pulsate?	Yes	(No)	Don't Know

12. Did the object move behind something at anytime, particularly a cloud?

(Circle One): Yes (No) Don't Know. IF you answered YES, then tell what it moved behind: _____

_____

13. Did the object move in front of something at anytime, particularly a cloud?

(Circle One): Yes (No) Don't Know. IF you answered YES, than tell what it moved in front of: _____

_____

14. Did the object appear: *(Circle One)*: (a. Solid?) b. Transparent? c. Don't Know.

15. Did you observe the object through any of the following?

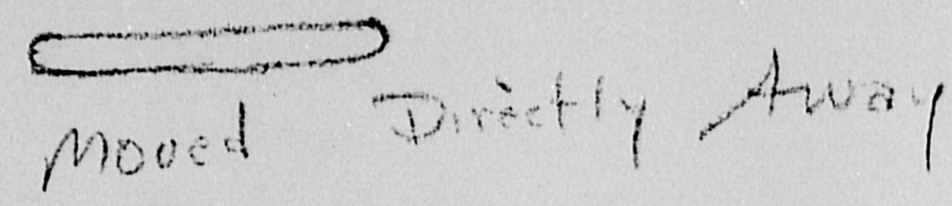
a. Eyeglasses	Yes	(No)	e. Binoculars	Yes	(No)
b. Sun glasses	Yes	(No)	f. Telescope	Yes	(No)
c. Windshield	(Yes)	No	g. Theodolite	Yes	(No)
d. Window glass	Yes	(No)	h. Other _____		

16. Tell in a few words the following things about the object.

a. Sound N/A

b. Color Yellow white

17. Draw a picture that will show the shape of the object or objects. Label and include in your sketch any details of the object that you saw such as wings, protrusions, etc., and especially exhaust trails or vapor trails. Place an arrow beside the drawing to show the direction the object was moving.



18. The edges of the object were:

(Circle One): a. Fuzzy or blurred
b. Like a bright star
c. Sharply outlined
d. Don't remember

e. Other _____

19. IF there was MORE THAN ONE object, then how many were there? Only 1.
Draw a picture of how they were arranged, and put an arrow to show the direction that they were traveling.

20. Draw a picture that will show the motion that the object or objects made. Place an "A" at the beginning of the path, a "B" at the end of the path, and show any changes in direction during the course.

I cloud on the orizon head on, then it appeared to depart straight away then befor it disappeared it angled to the left

21. IF POSSIBLE, try to guess or estimate what the real size of the object was in its longest dimension.
5 feet.

22. How large did the object or objects appear as compared with one of the following objects *held in the hand* and at about arm's length?

(Circle One):

a. Head of a pin
b. Pea
c. Dime
d. Nickel
e. Quarter
f. Half dollar
g. Silver dollar
h. Baseball
i. Grapefruit
j. Basketball
k. Other _____

22.1 *(Circle One of the following to indicate how certain you are of your answer to Question 22.*

a. Certain
b. Fairly certain
c. Not very sure
d. Uncertain

23. How did the object or objects disappear from view? got smaller till I couldn't see it any more

24. In order that you can give as clear a picture as possible of what you saw, we would like for you to imagine that you could construct the object that you saw. Of what type material would you make it? How large would it be, and what shape would it have? Describe in your own words a common object or objects which when placed up in the sky would give the same appearance as the object which you saw.

heat a steel disc 5" rod to yellow white and suspend it so the edge or length of it would be exposed to you.

25. Where were you located when you saw the object? *(Circle One):*

a. Inside a building
b. In a car
c. Outdoors
d. In an airplane
e. At sea
f. Other _____

26. Were you *(Circle One)*

a. In the business section of a city?
b. In the residential section of a city?
c. In open countryside?
d. Flying near an airfield?
e. Flying over a city?
f. Flying over open country?
g. Other _____

27. What were you doing at the time you saw the object, and how did you happen to notice it?

flying at 45000 ft it was straight
ahead of me

28. IF you were MOVING IN AN AUTOMOBILE or other vehicle at the time, then complete the following questions:

28.1 What direction were you moving? *(Circle One)*

a. North
b. Northeast
c. East
d. Southeast
e. South
f. Southwest
g. West
h. Northwest

28.2 How fast were you moving? .82 Mach ~~miles per hour~~.

28.3 Did you stop at any time while you were looking at the object?
(Circle One) Yes No

29. What direction were you looking when you first saw the object? *(Circle One)*

a. North
b. Northeast
c. East
d. Southeast
e. South
f. Southwest
g. West
h. Northwest

30. What direction were you looking when you last saw the object? *(Circle One)*

a. North
b. Northeast
c. East
d. Southeast
e. South
f. Southwest
g. West
h. Northwest

31. If you are familiar with bearing terms (angular direction), try to estimate the number of degrees the object was from true North and also the number of degrees it was upward from the horizon (elevation).

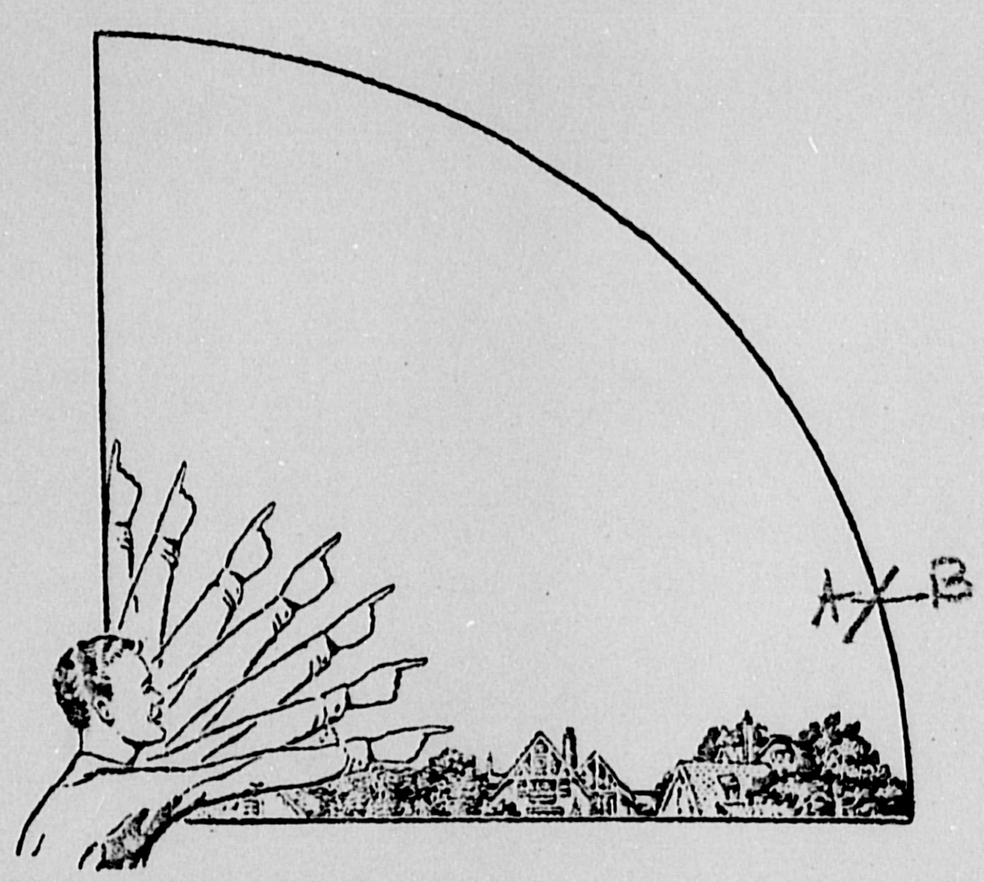
31.1 When it first appeared:

a. From true North 085 degrees.
b. From horizon 15 degrees.

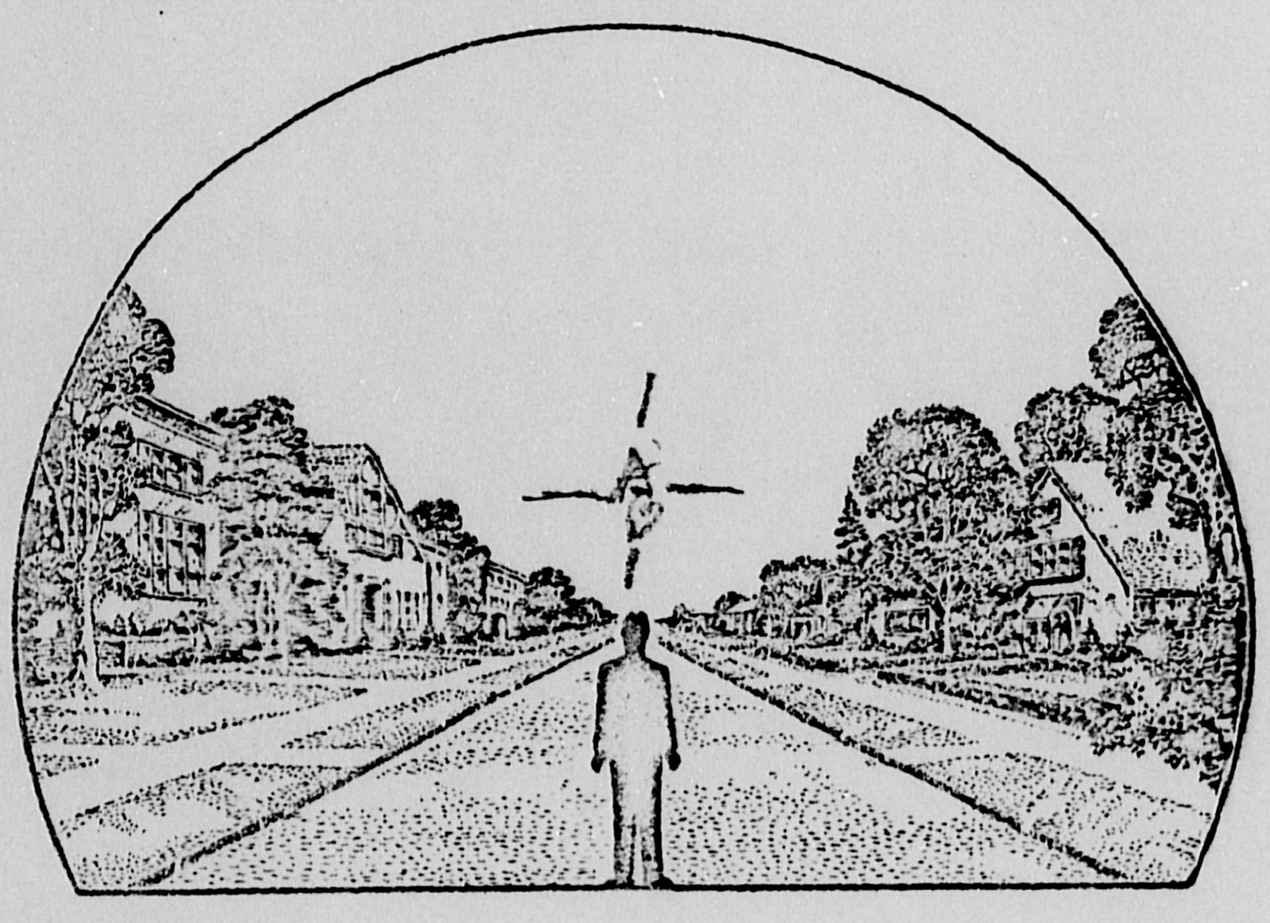
31.2 When it disappeared:

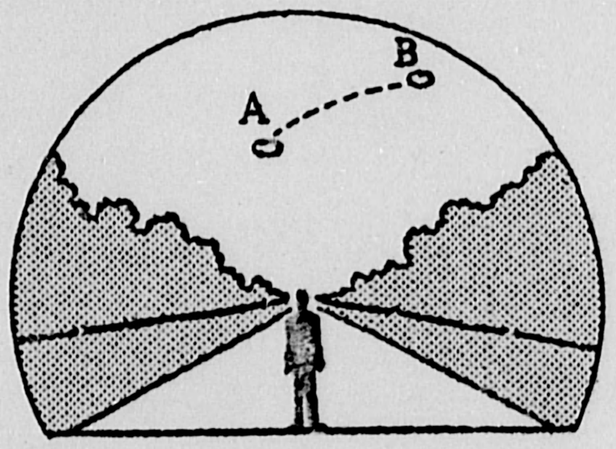
a. From true North 025 degrees.
b. From horizon 15 degrees.

32. In the following sketch, imagine that you are at the point shown. Place an "A" on the curved line to show how high the object was above the horizon (skyline) when you *first* saw it. Place a "B" on the *same* curved line to show how high the object was above the horizon (skyline) when you *last* saw it.



33. In the following larger sketch place an "A" at the position the object was when you *first* saw it, and a "B" at its position when you *last* saw it. Refer to smaller sketch as an example of how to complete the larger sketch.





34. What were the weather conditions at the time you saw the object?

34.1 CLOUDS *(Circle One)*

a. Clear sky
b. Hazy
c. Scattered clouds
d. Thick or heavy clouds
e. Don't remember

34.2 WIND *(Circle One)*

a. No wind
b. Slight breeze
c. Strong wind
d. Don't remember

34.3 WEATHER *(Circle One)*

a. Dry
b. Fog, mist, or light rain
c. Moderate or heavy rain
d. Snow
e. Don't remember

34.4 TEMPERATURE *(Circle One)*

a. Cold
b. Cool
c. Warm
d. Hot
e. Don't remember

35. When did you report to some official that you had seen the object?

25 (Day) Nov (Month) 57 (Year)

36. Was anyone else with you at the time you saw the object?

(Circle One) Yes No

36.1 IF you answered YES, did they see the object too?

(Circle One) Yes No

36.2 Please list their names and addresses:

37. Was this the first time that you had seen an object or objects like this?

(Circle One) Yes No

37.1 IF you answered NO, then when, where, and under what circumstances did you see other ones?

38. In your opinion what do you think the object was and what might have caused it?

I don't know

39. Do you think you can estimate the *speed* of the object?

(Circle One) Yes (No)

IF you answered YES, then what speed would you estimate? _____ m.p.h.

40. Do you think you can estimate how far away from you the object was?

(Circle One) Yes (No)

IF you answered YES, then how far away would you say it was? _____ feet.

41. Please giv[redacted] information about yourself:

NAME _____ [redacted] _____ [redacted]
Name

ADDRESS Municipal Airport [redacted] Fort Worth [redacted] Ohio
Street City Zone State

TELEPHONE NUMBER [redacted]

What is your present job? Airport Operator

Age 31 Sex M

Please indicate any special educational training that you have had.

a. Grade school C
b. High school C
c. College 2 years
d. Post graduate _____
e. e. Technical school AF Pilot School
(Type) _____
f. Other special training _____

42. Date you completed this questionnaire: 9 Day Dec Month 1957 Year

Civilian Rating pilot SEL, MEL Inst A+E, Maintenance inspector.
Flight instructor
all ground instructors Ratings

Notes for UFO report in accordance with your instructions.

Date Interview Conducted: 9 December 1957

Interviewer: Capt George H. Janczewski, WPAFB Ext 70236

Source: Civilian, employee at Van Wert Airport, Ohio, member of the Indiana Air National Guard, 163 FIS

Content of the report: Source flew an F-86 A at 44,000 ft on 26 Nov 1957. While about 15-20 miles west of Jolliet, Ill., Source sighted an unidentified object in the sky. The direction of Sources flight was eastward. The object appeared at a relative bearing of 15°. Source described the object as yellowish in color, at first stationary and hazy and later appearing to move and assuming definite outlines. Source observed the object for about 10 minutes and pursued it. As he approached the object gained in size and when he put his index finger on the aircraft's windshield it appeared on top of it as no larger than a nickel. Source contacted Chicago ARTC via radio and inform them of the sighting. The message was conveyed to ADCC senior controller at 30 ADiv at WRAFS, Michigan who filed the original report. Source stated that approximately five minutes after ~~[illegible]~~ UFO has disappeared from his sight by fading in the distance and turning slightly left , he notice a flight of 3 B-47s going eastward. Source descended and attempted to contact the B-47s to verify his sighting but was not successful in contacting the other aircraft. He landed his aircraft at Fort Wayne, Ind., which was his ~~[illegible]~~ home base. He immediately file a report with his base commander. Questioned about the size, shape, speed and altitude of the object Source ~~[illegible]~~ explained that he had no basis of comparision hence no idea about the characteristics or performace of the object. Except for slight turn to the left the object made no other manuevers. Source said it seemed to have accelerated as he closed in. The object was somewhat flat, mettalic in appearance.

Investigation: Interviewer talked with Mr. [redacted] personally and questioned him in details. ATIC Form 164 is attached. Following the interview the following units were contacted:

Hq 30th Air Div, WRAFS, Michigan
Hq 20th Air Div, Grandview AFB, Mo
Hq 791st AC&W SQ, Hanna City AFS, Ill.
Hq 319 Ftr Intcptr Sq, Bunker Hill AFB, Ind.
Hq 782 AC&W Sq, Rockville AFS, Ind.

All of the above units reported no unusual sightings or incidents on that date and at that time. The FIS reported no aircraft in the area.

The Wright Operations Officer was contacted and said there were no WADC aircraft in the area at that time.

The officer who file the original report, Capt Best, Senior Controller, ADCC 30th ADiv said he checked the sir trafiic at that time and found no unusual incidents. Chicago ARTC contacted by Capt Best on 20 Dec stated there were no other report regarding the sighting except the one from Mr. Rice.

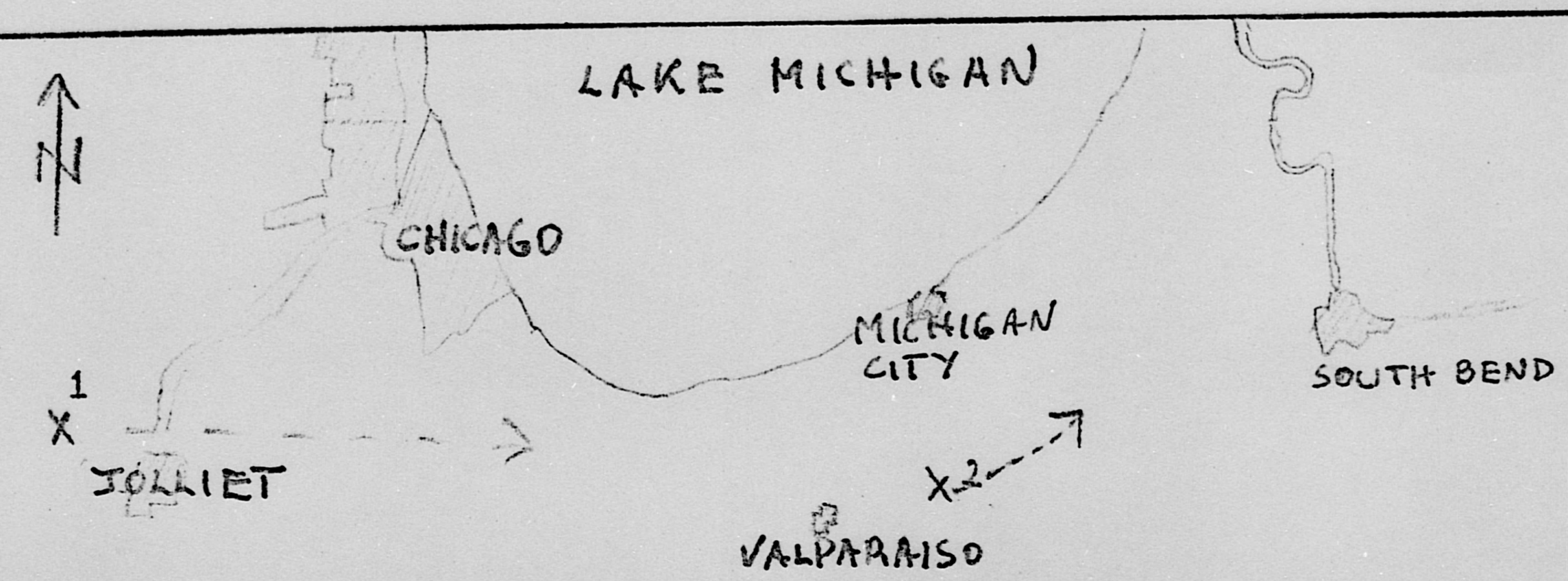
Conclusion: The interviewer believes that the B-47s could have crossed the flight path of the F-86 at one time in the general area of the sighting. Considering the early hour of the day it appears probable that the B-47s contrails were illuminated be the rising sun from below and behind. This could have appeared to the F-86 pilot to have been an unusual phenomena. I realize that the B-47s were at about 33,000 ft while the F-86 was at about 44,000, however, the pilot stated that the day was very clear and there were no cbuds whatsoever. These conditions would have resulted in the sighting being observed by other people in addition to the pilot. Considering lack of such evidence and the relative angles of the F-86 to the B-47s contrails and the rising sun this conclusion appears most probable.

CLASSIFICATION (SECURITY INFORMATION when filled in)

SUPPLEMENT TO AF FORM 112

PAGE OF PAGES

ORIGINATING AGENCY | REPORT NO.



88°
41°

1. SOURCE A/C at 44,000 ft. F-86A where object originally sighted
2. OBJECT disappeared from view to the left
3. SOURCE and 3 B-47s.

OVERLAY ON WAC (308)

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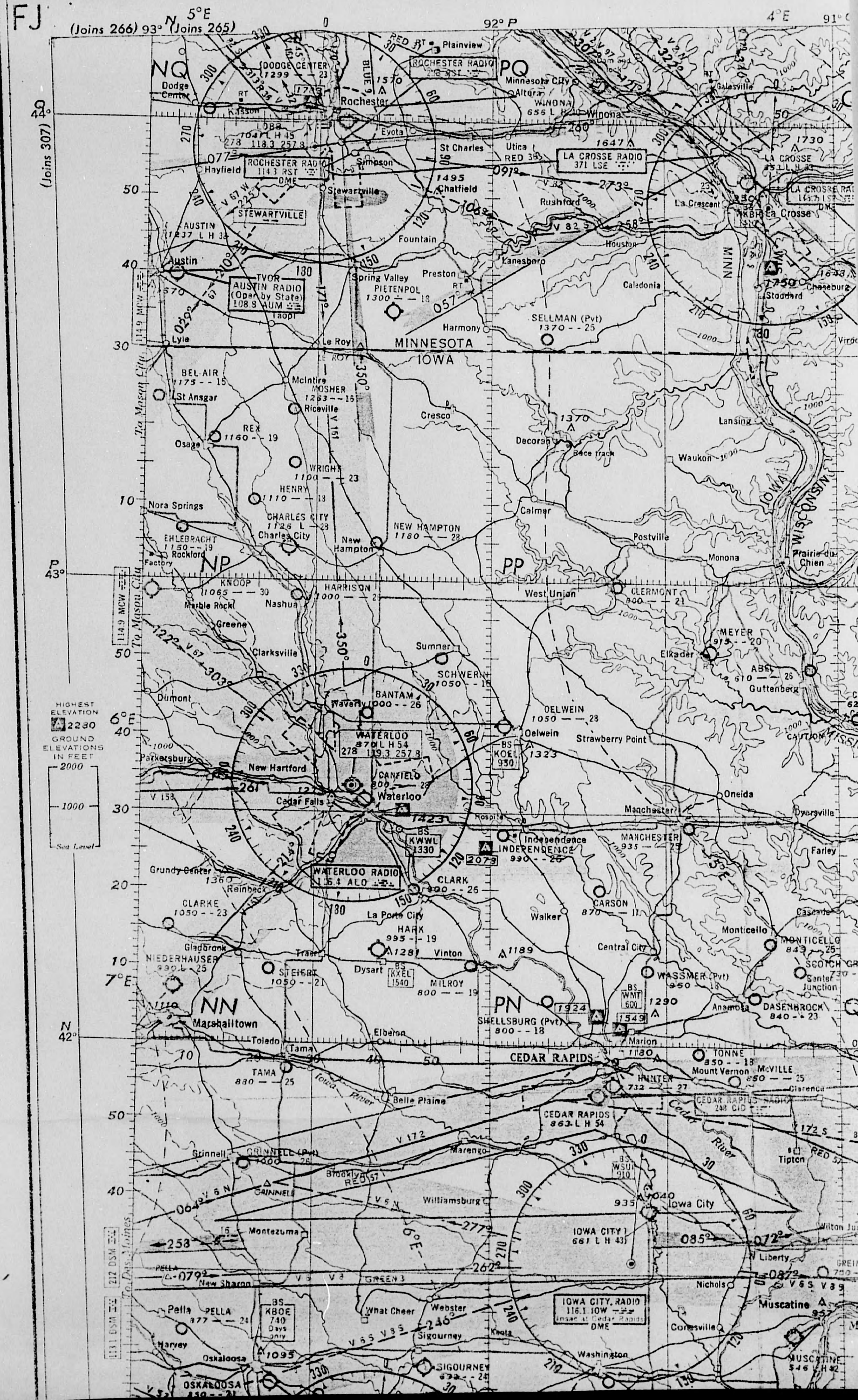

FJ
(Joins 266)
(Joins 265)
(Joins 307)
NQ
PQ
NP
PP
NN
PN
QN
Dodge Center
Rochester
Plainview
ROCHESTER RADIO
DODGE CENTER
1299 — — 23
Minnesota City
Altura
WINONA
656 L H 40
Winona
Galesville
Eyota
St Charles
Utica
RED 36
LA CROSSE RADIO
371 LSE
LA CROSSE
La Crescent
KBH La Crosse
Hayfield
ROCHESTER RADIO
114.3 RST
DME
Simpson
Stewartville
1495
Chatfield
Rushford
STEWARTVILLE
AUSTIN
1237 L H 38
Austin
Fountain
Houston
Kanesboro
Preston
Spring Valley
PIETENPOL
1300 — — 18
TVOR
AUSTIN RADIO
(Open by State)
108.8 AUM
Caledonia
Chaseburg
Stoddard
SELLMAN (Pvt)
1370 — — 25
Harmony
Lyle
Le Roy
MINNESOTA
IOWA
BEL AIR
1175 — — 15
St Ansgar
McIntire
MOSHER
1263 — — 15
Riceville
Cresco
Decorah
Bace Track
Lansing
Waukon
REX
1160 — — 19
Osage
WRIGHT
1100 — — 23
HENRY
1110 — — 18
Nora Springs
CHARLES CITY
1126 L — 23
Charles City
NEW HAMPTON
1180 — — 28
New Hampton
Calmar
Postville
Monona
Prairie du Chien
EHLEBRACHT
1150 — — 19
Rockford
Factory
KNOOP
1065 — — 30
Marble Rock
HARRISON
1000 — — 21
Nashua
West Union
CLERMONT
800 — — 21
Greene
Clarksville
Sumner
MEYER
915 — — 20
Elkader
ABEL
610 — — 26
Guttenberg
Dumont
SCHWERT
1050 — — 16
BANTAM
Waverly 1000 — — 26
OELWEIN
1050 — — 28
Oelwein
Strawberry Point
Parkersburg
WATERLOO
870 L H 54
278 119.3 257.8
BS
KOEL
930
1323
New Hartford
CANFIELD
800 — — 28
Waterloo
Cedar Falls
Oneida
Manchester
Dyersville
Hospital
BS
KWWL
1330
Independence
INDEPENDENCE
990 — — 26
MANCHESTER
935 — — 25
Farley
Grundy Center
1360
WATERLOO RADIO
116.4 ALO
Reinbeck
CLARK
900 — — 26
CLARKE
1050 — — 23
La Porte City
Walker
CARSON
870 — — 17
Cascade
Monticello
HARK
995 — — 19
Gladbrook
Traer
Vinton
1281
1189
Central City
MONTICELLO
845 — — 25
SCOTCH GROVE
730 — — 17
NIEDERHAUSER
990 — — 25
STEIERT
1050 — — 21
Dysart
BS
KXEL
1540
MILROY
800 — — 19
WASSMER (Pvt)
950 — — 18
Center Junction
Anamosa
DASENBROCK
840 — — 23
Marshalltown
Toledo
Tama
Elberon
SHELLSBURG (Pvt)
800 — — 18
1924
Marion
1180
CEDAR RAPIDS
TONNE
850 — — 18
Mount Vernon
McVILLE
850 — — 25
Clarence
TAMA
880 — — 25
HUNTER
732 — — 27
CEDAR RAPIDS RADIO
248 CID
Iowa River
Belle Plaine
CEDAR RAPIDS
863 L H 54
Cedar River
Grinnell
GRINNELL (Pvt)
1000 — — 26
Marengo
BS
WSUI
910
Tipton
Williamsburg
Iowa City
IOWA CITY
661 L H 43
Montezuma
Wilton Junction
Liberty
GREINER
730 — — 13
New Sharon
Nichols
Muscatine
957
Pella
PELLA
877 — — 24
BS
KBOE
740
Days
Only
What Cheer
Webster
Sigourney
IOWA CITY RADIO
116.1 IOW
Ansac at Cedar Rapids
DME
Coralville
Harvey
Oskaloosa
1095
Keota
Washington
SIGOURNEY
632 — — 24
OSKALOOSA
MUSCATINE
546 L H 42
Elberon
Toledo
Tama
Marengo
Iowa City
Sigourney
Washington
Muscatine
Oxford
Clarence
Wilton Junction
Nichols
Coralville
Monticello
Anamosa
Marion
Cascade
Farley
Dyersville
Manchester
Oneida
Strawberry Point
Oelwein
Waukon
Lansing
Decorah
Cresco
Postville
Monona
Prairie du Chien
Caledonia
Houston
Kanesboro
Rushford
Chatfield
Stewartville
Simpson
Eyota
Rochester
Dodge Center
Hayfield
Austin
Fountain
Spring Valley
Preston
Le Roy
Lyle
Harmony
Chaseburg
Stoddard
Viroqua
Galesville
Winona
Altura
Minnesota City
Plainview
RED RT
BLUE 9
To Mason City
To Des Moines
212 DSM
113 DSM
HIGHEST ELEVATION
2280
GROUND ELEVATIONS IN FEET
2000
1000
Sea Level
5°E
0
92° P
4°E
91°
44°
43°
42°
6°E
7°E
N
50
40
30
20
10
CAUTION

GJ

FJ 90° (Joins 265) 3°E

2°E

89° B

Lake Poygan

Petenwell Res

Castle Rock Res

Lake Winnebago

Wisconsin River

Wisconsin River

Mississippi R

RESTRICTED AREA R-458

RESTRICTED AREA

RESTRICTED AREA

SPARTA-ANGELO 800 — —

CAMP WILLIAMS (NG) 915 - H 80

TOMAH 970 — 26

CAMP McCOY (ARMY) 830 — H 44 126.1R

KENDALL 1080 — 20

MAUSTON 880 — — 19

CASTLE ROCK 960 — 20

LAKE DELTON 834 - S 50

BELLS 910 — 24

BELL 980 — 35

REEDSBURG 880 — — 23

PORTAGE 280 — 24

PLAINFIELD 1100 — — 20

COLOMA 1100 — — 31

WAUTOMA 858 — 31

WILD ROSE 990 — —

NEENAH 1047

VALLEY 760 — 22

RED 800 — — 18

WINNEBAGO CO 790 L H 43

OSHKOSH 1110

GERRIE 960 — — 19

SKY HARBOR 747 — 250

NORLING 830 — 24 820 — S 50

MYRLAND 850 — 21

MAEL 820 — 30

WOODSIDE 830 — 20

BS WRDB 1400

BS KFIZ 1450

BS WPDR 1350 Days Only

BS WRDB 1400

BS KOTH 1370

BS WKOW 1070

BS WCLO 1230

LONE ROCK RADIO 113.6 LNR DME

TRUAX 344 TAX No voice

TRUAX 359 L H 76 GCA ILS OF 2/8 113.9 126.1 257.8

MADISON RADIO 190 MSN

JANESVILLE 113.0 JVL No voice

ROCKFORD RADIO 338 RFD

MOLINE RADIO 113.2 MLI DME

MOLINE RADIO MLI

QUAD CITY 390 L H 55 INSTR LDG SYSTEM 111.5 257.8

ROCK CO 907 L H 54

DIXON 286 - H 28

POLO 112.3 PLL No voice

JANESVILLE 1100

BELOIT 772 — 27

ROCKFORD 1010

FORT ATKINSON 799 — 19

JEFFERSON 920

WAUPUN 915 — 25

FOND DU LAC 759

OSHKOSH 1110

WATERTOWN 320 L H 29

DE KALB 900 L H 30

ROCHELLE 730 — 22

AURORA 701 - H 30

DUBUQUE 1075 L H 56

DAVENPORT (MUN) 753 L H 48

DAVENPORT 670 — 18

CLINTON Clinton 701 L H 37

DEWITT (Pvt) 710 — 20

GRAND 770 — 23

MAQUOKETA 720 — — 20

STRANSDALE 610 — 23

VESPERMAN 1100 — — 13

ARGYLE

ARGYLE 1080 — — 17

SHULLSBURG 1080 — — 17

BADGER 1080 — 11

STOCKTON 940 — —

ALBERTUS

FREEPORT

PEARL CITY

PELATONIA

ROCKFORD RADIO 338 RFD

FRANKLYN 750 — — 33

GREATER ROCKFORD 754 L H 45

SYCAMORE 840 — — 26

DU PAGE 750 L H 32

SANDWICH 670 — 29

SERENA 640 — 21

FITZGERALD 800 — 24

ROCK FALLS 645 L - 25

HAMILTON 895 L - 26

MORRIS 588

OTTAWA 615 — 28

STARVED ROCK 460 — 34

MARSEILLES

MENDOTA

DAVIS JUNCTION

DE KALB

SYCAMORE

GENOA

DURAND

ROCKTON

BELOIT

BELVIDERE

MARENGO

CRYSTAL LA

WOODSTOCK 1065 1180

HARTFORD 1361

WATERTOWN

OCONOMOWOC 870

WATERLOO

LAKEMILLS

JEFFERSON

FORT ATKINSON

PALMYRA 854 — 23

WHITEWATER

EAST TROY 822 — 20

ELKHORN

WILLIAMS BAY

DELAVAN

CLINTON

JUNEAU

IRON RIDGE 1210

HORICON

BEAVER DAM

MAYVILLE

FOX LAKE

RANDOLPH

CAMBRIA

PARDEEVILLE

PORTAGE MANLEY 800 — 32

COLUMBUS

OX-BOW 840 — 16

CLYMAN

MIDWAY

REDGRANITE

WINNECONNE

NEENAH

MENASHA 1047

BERLIN

OMRO

WAUTOMA

PRINCETON

MONTELLO

WESTFIELD

NEW LISBON

ADAMS

SPRAGUE

WYEVILLE

NECEDAH

TOMAH

CAMP DOUGLAS

SPARTA

KENDALL

MAUSTON

ELROY

CASHTON

WESTBY

HILLSBORO

LA VALLE

REEDSBURG

BARABOO

WISCONSIN DELLS

LAKE DELTON

PLAINFIELD

COLOMA

WESTFIELD

MONTELLO

PRINCETON

RIPON

NORTH FOND DU LAC 1099

FOND DU LAC

OAKFIELD

BRANDON

MARKESAN

WAUPUN

FOX LAKE

CAMBRIA

BEAVER DAM

HORICON

MAYVILLE

LOMIRA

RANDOLPH

PARDEEVILLE

COLUMBUS

CLYMAN

HARTFORD

WATERTOWN

WATERLOO

OCONOMOWOC

LAKEMILLS

JEFFERSON

FORT ATKINSON

WHITEWATER

EAST TROY

ELKHORN

WILLIAMS BAY

DELAVAN

CLINTON

JUNEAU

IRON RIDGE

WAUPUN

BERLIN

OMRO

OSHKOSH

WINNECONNE

NEENAH

MENASHA

WAUTOMA

REDGRANITE

WILD ROSE

PLAINFIELD

WISCONSIN

ILLINOIS

Richland Center

Spring Green

Lone Rock

Boscobel

Prairie du Sac

Sauk City

Madison

Mount Horeb

Middleton

Verona

Fitchburg

Oregon

Janesville

Beloit

Rockton

Durand

Freeport

Winnebago

Rockford

Belvidere

Marengo

Woodstock

Crystal Lake

Harvard

McHenry

Elgin

Aurora

Batavia

Geneva

St Charles

Wheaton

Glen Ellyn

Lombard

Elmhurst

Chicago

Oak Park

Cicero

Gary

Hammond

Whiting

Michigan City

Lake Michigan

Indiana

Illinois

Wisconsin

Mississippi R

Rock River

Illinois River

Fox River

Kankakee River

Illinois and Michigan Canal

Illinois and Michigan Canal Nat Hist Park

Starved Rock

Utica

Ottawa

Marseilles

Seneca

Morris

Minooka

Joliet

Lockport

Romeoville

Bolingbrook

Naperville

Aurora

Batavia

Geneva

St Charles

Wheaton

Glen Ellyn

Lombard

Elmhurst

Chicago

Oak Park

Cicero

Gary

Hammond

Whiting

Michigan City

Lake Michigan

Indiana

Illinois

Wisconsin

Mississippi R

Rock River

Illinois River

Fox River

Kankakee River

Illinois and Michigan Canal

Illinois and Michigan Canal Nat Hist Park

Starved Rock

Utica

Ottawa

Marseilles

Seneca

Morris

Minooka

Joliet

Lockport

Romeoville

Bolingbrook

Naperville

TICAL CHART

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

To Green Bay 117.0 GRB

(Joins 265) 88°C

2°E 1°E 87°D 0°

Neenah Menasha 1047 Forest Jct Brillion KAKUK 653 L H 38 Two Rivers RBn MANITOWOC 302 — — — Carrier on 1m & off 2m

VALLEY 750 — — 21 Winneconne RED 1110 Oshkosh Winnebago Highcliff 1634 Chilton Manitowoc CQ DQ 116°

Omro Berlin WINNEBAGO CO 790 L H 48 New Holstein Kiel Lake Winnebago 180° Big Sable Pt MASON COUNTY 642 — — 33 RBn LUDINGTON 302 — — — Carrier on 1m & off 2m Ludington

GERRIE 960 — — 19 North Fond du Lac 1090 SAY HARBOR 747 — — 250 RUTHERFORD 640 — — 26 RESTRICTED AREA (R-84) BS KFIZ 1450 Fond du Lac 1410 FOND DU LAC 759 L - 31 CARM 925 — — 22 CHAPLIN 868 — — 22 BS WHBL 1330 Sheboygan 848 925 Pentwater PEN

Brandon Oakfield Plymouth Sheboygan Falls KOHLER 647 — — 28 Hart RT 352° Shelb

WAUPUN 975 — — 25 Waupun Campbellsport Lomira Cedar Grove Little Sable Pt RESTRICTED AREA (R-437)

Fox Lake MAYVILLE 925 — — 23 Random Lake SAY RANCH 1370 — — 22 RESTRICTED AREA (R-83)

Beaver Dam Horicon Mayville WEST BEND 880 — — 31 Montague

MIDWAY 910 — — 24 Juneau Iron Ridge 1210 West Bend GROB 875 — — 24 Port Washington

OX-BOW 740 — — 16 Clyman Hartford 1320 Cedarburg Grafton

Hills Church 1361 MILWAUKEE RADIO 113.9 MKE 1746 CP

Watertown OCONOMOWOC 870 — — 17 Menomonee Falls CURTISS-WRIGHT 851 L H 34 1735 MILWAUKEE 086° V 2 270° MUSKEGON 628 L H 221 121.1

DP Oconomowoc 271° 274° 210 V 217 MUSKEGON RAD 263 MKG

Lakemills GREEN 2 WAUKESHA CO 1261 MILWAUKEE 580 — — 250 Grand H

Jefferson SULLIVAN 1175 43° GENERAL MITCHELL 698 L H 57 ILS DF 278 119.1 126.18 257.8 251°

FORT ATKINSON 799 — — 19 Waukesha LOCALIZER Cudahy GREEN 2

Fort Atkinson GENESEE South Milwaukee

PALMYRA 954 — — 21 MILWAUKEE RADIO 242 MKE 225° 210 V 2 S

Whitewater 1237 180 FRANKSVILLE

EAST TROY 822 — — 20 HORLICK-RACINE 865 L H 44 SUN FISH 288° 109° 047°

JANESVILLE 880 — — 23 Racine V 219 V 216 WERELEY 750 — — 20 Sturtevant AIR CITY 638 — — 26 ELEV 850 V 30

Elkhorn Burlington 124° V 187 TAYLOR

Delavan WALWORTH CO 1000 — — 26 Fox R AMBER 5 900 960 Kenosha

Williams Bay Lake Geneva KENOSHA 623 — — 30 RED 57 V 30 S 278° 293° 300

Sharon Genoa City 750 — — 22 ANTIOCH RESTRICTED AREA (R-76) 007° 230°

Antioch WAUKEGAN 725 — — 25 Zion NAVY GLENVIEW RADIO 269 NBU

DACY 930 — — 24 Woodstock JOHNSBURG 740 — — 19 Waukegan 1020 SHERIDAN AAF 690 L H 31 126.3 126.18 V 187 1°E

273° Belvidere 1055 1180 NAS GLENVIEW 653 L H 30 GCA DF 236 126.18 142.74 233.8

FRANKLYN 750 — — 33 Marengo Crystal Lake RED 338° V 97 1100 VOLO 1187 MERMAID V 115 RED 3 ROSS 642 L H 51

BN Genoa PALWAUKEE 642 L H 29 Dundee 353° CHICAGO O'HARE 666 L H 73 GCA ILS DF 332 118.1 126.18 236.5 CN

ELGIN 782 L H 24 Elgin BS WGN 720 1460 CHICAGO RADIO 350 MDW 042° MID-LAKE 246° DN St Joseph

SYCAMORE 940 — — 26 Sycamore 1508 PAPI 062° V 187 ST JOSEPH CO 773 L H 5020 ILS 278 118.5 257.8

De Kalb DU PAGE CO 750 L H 32 292° 50 V 10 N NEPTUNE RED 55 287° 300

DE KALB 900 L H 30 AURORA 701 - H 30 Batavia 1504 CHICAGO MIDWAY 618 L H 64 Airport of entry GCA ILS 278 118.7 119.5 120.7 126.18 257.8 TVOR 116.2 MDW RED 12 New Buffalo Three Oaks

ELMHURST 709 L - 30 320° CHICAGO V 6 V 10 088° 096° MICHIGAN CITY 650 - H 30

267° 1081 Aurora NAPERVILLE RADIO 113.9 API DME Michigan City

Sandwich Plano 350 LEWIS-LOCKPORT 570 L H 31 1027 HOWELL 590 — — 23 BS WLS 890 GARY 551 L H 46 Gary Mc COOL 359 MCL No voice

SANDWICH 670 — — 39 JOLIET RADIO 114.4 JOT 090° 248° MICHIGAN CITY 668 — H 24

SERENA 640 — — 21 JOLIET RADIO 257 JOT 1330 HARVEY 585 HVY 106 V 1 La Porte LA PORTE 903

MORRIS 588 — — 23 JOLIET Chicago Heights HAMMOND 651 L H 32 087° PORTER CO 761 — H 19 Nanalan

1010A 248° 063° 240 CHICAGO HGTS RADIO 114.2 CHT DME CROWN POINT 720 — — 30 Valparaiso URSCHELL 823 L — 25

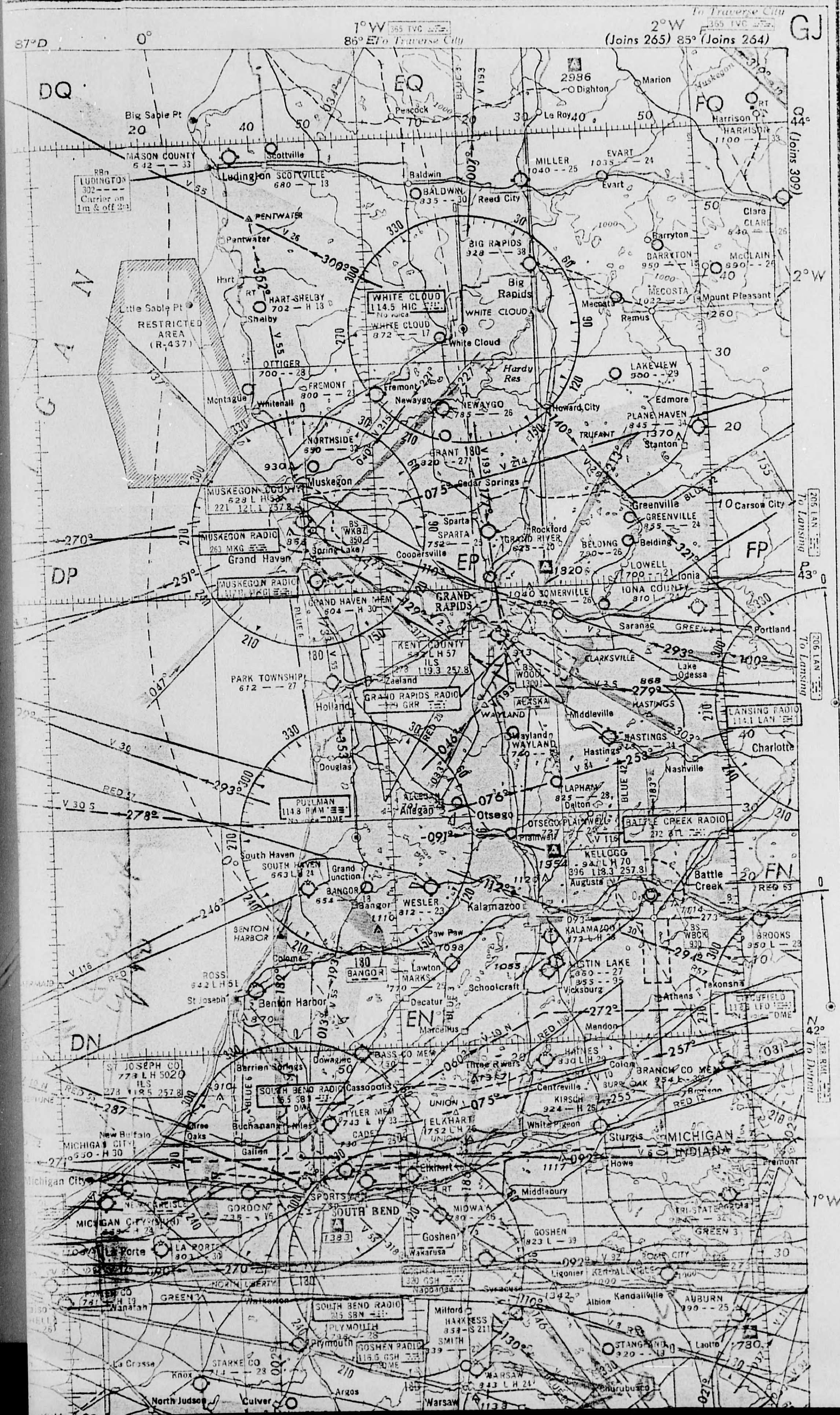
OTTAWA 873 — — 28 Ottawa Crown Point CEDAR LAKE 751 — — 27 Hebron La Crosse STARKE CO 714 — — 28

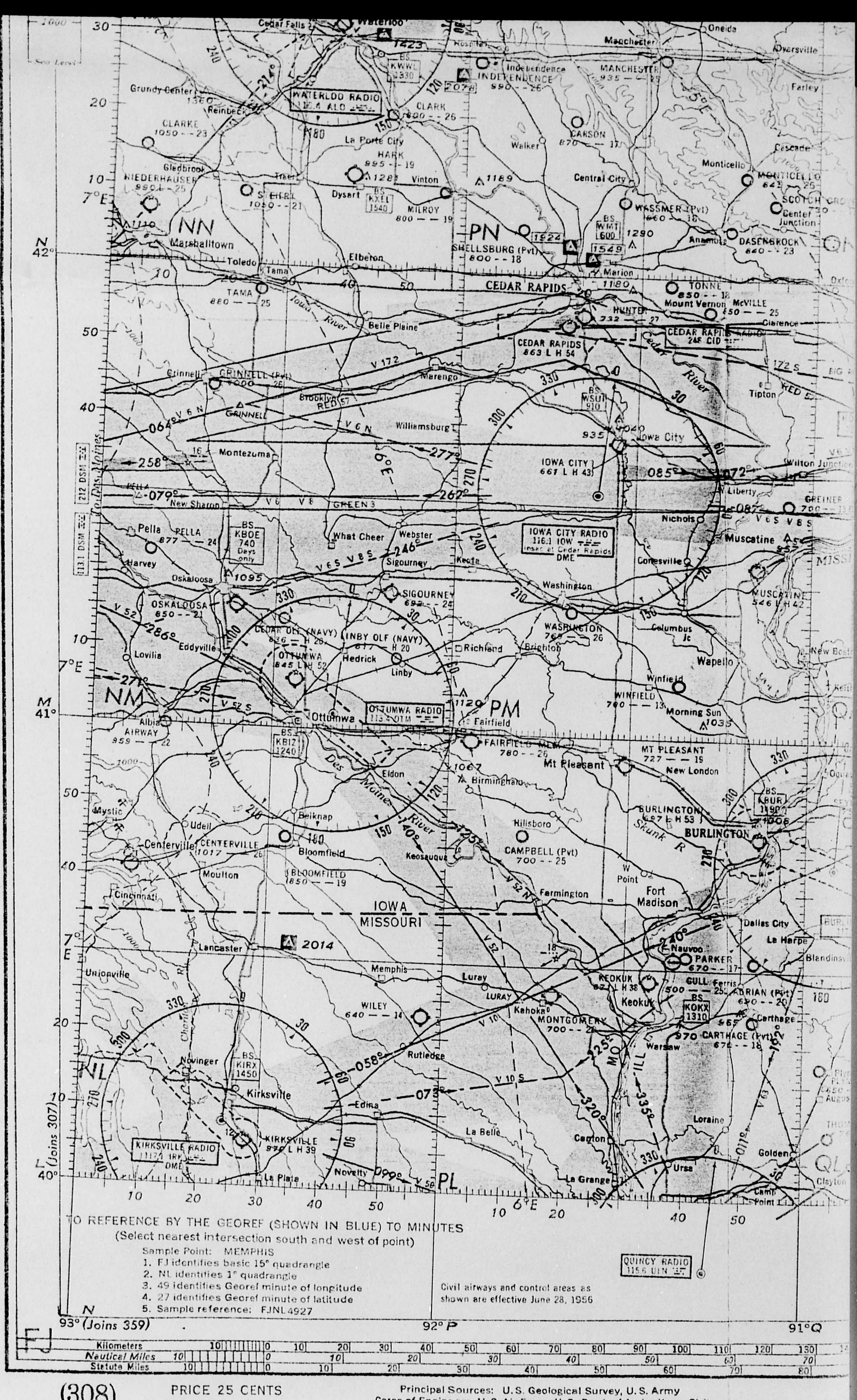
Marseilles Seneca 210° 270° Knox

CM

Lambert Conformal Conic Projection
Standard Parallels 33° and 45° Scale 1:1,000,000

...e chart number.





TO REFERENCE BY THE GEOREF (SHOWN IN BLUE) TO MINUTES
(Select nearest intersection south and west of point)

Sample Point: MEMPHIS

1. FJ identifies basic 15° quadrangle
2. NL identifies 1° quadrangle
3. 49 identifies Georef minute of longitude
4. 27 identifies Georef minute of latitude
5. Sample reference: FJNL4927

Civil airways and control areas as shown are effective June 28, 1956

| | | |

Compiled and printed at Washington, D. C. by the U. S. Coast and Geodetic Survey
under authority of the Secretary of Commerce

MARCH 1945 Revised NOVEMBER 1955 BASE NO 3R

BLUE TINT INDICATES AIR TRAFFIC CONTROLLED AREAS

Victor airway designations are shown along the radials of the omni range stations. Limits of these airways which are not indicated on this chart are 5 miles on either side of the radials.

ALTITUDE CONVERSION

For conversions above 100 feet, add like number of ciphers

JANESVILLE 113.0 JVL No voice
Clinton
Beloit
Sharon
Durand
Rockton
BELOIT 772 - - 27
MACHESNEY 732 - - 30
DACY 930 - - 24
Genoa City 750 - - 22
ANTIOCH
Antioch
WAUKEGAN 725
Kenosha
KENOSHA 623 - - 30
RESTRICTED AREA (R-76)
Zion
NAVY GLENVIEW RADIO 269 NBU
Waukegan
SHERIDAN AFB 690 L H 31 126.3 126.18
NAS GLENVIEW 653 L H 80 GCA DF 236 126.18 142.74 233.8
CHICAGO INTNL O'HARE 666 L H 73 GCA ILS DF 332 118.1 126.18 236.6
CHICAGO RADIO 350 MDW
MID-LAKE
PAPI
CHICAGO MIDWAY 618 L H 64 Airport of entry GCA ILS 278 118.7 119.5 120.7 126.18 257.8 TVOR 116.2 MDW
CHICAGO
WOODSTOCK
McHenry
JOHNSBURG 740 - - 18
Woodstock
Belvidere
ROCKFORD 1130
ROCKFORD RADIO 338 RFD
Winnebago
PECATONICA
FRANKLYN 750 - - 33
Marengo
Crystal Lake
WAUCONDA 1187
PALWAUKEE 642
Dundee
ELGIN 782 L H 24
Elgin
BS WGN 720
GREATER ROCKFORD 734 L H 45
Davis Junction
Forreston
Byron
Mt Morris
HAMILTON 895 L - 26
Oregon
SYCAMORE 840 - - 26
Sycamore
De Kalb
DU PAGE VOR 760 L H 32
DE KALB 900 L H 30
Rochelle
ROCHELLE 780 - - 22
AURORA 701 - H 30
Batavia
ELMHURST 709 L - 30
Polo
POLO 112.6 PLL No voice
Dixon
DIXON 786 - H 28
Ashton
Amboy
BRESSON 770 - - 26
SHABBONA
Aurora
NAPERVILLE RADIO 115.9 APN DME
LEWIS-LOCKPORT 770 H 31
HOWELL 600 - - 28
GARY 651 L H 46
Gary
HARLEM 719 - - 34
HARMON
GREEN 3
Sandwich
Plano
Earlville
SANDWICH 670 - - 28
FITZGERALD 800 - - 24
Walnut
Van Orin
Menpota
SERENA 640 - - 21
JOLIET RADIO 114.4 JOT
JOLIET RADIO 257 JOT
HARVEY 585 HVY
HAMMOND
MORRIS 588 - - 23
JOLIET
Chicago Heights
CROWN POINT 720
Valparaiso
VOGEL (Pvt) 660 - - 18
OTTAWA 615 - - 28
Ottawa
Wyanet
Princeton
Depue
Marseilles
Seneca
Morris
CHICAGO HEIGHTS RADIO 114.2 CGT DME
Crown Point
CEDAR LAKE 751 - - 27
Hebron
Tiskilwa
Bureau
La Salle
STARVED ROCK 460 - - 34
Illinois
Granville
BRADFORD 795 L - 26
BRADFORD RADIO 382 BDF
Mazon
Braidwood
Gardner
Manteno
MOMENCE
BAILEY 697 - L - 27
THAYER
Kankakee
Momence
KANKAKEE 625 - - 26
Schneider
LAKE VILLAGE 644 - - 6
Henry
Streator
STREATOR 650 - - 23
BURGESS (Pvt) 550 - - 22
Lacon
Wenona
Toluca
Dwight
PEOTONE 112.6 PEO No voice
St Anne
Buckingham
Odell
MARSHALL ICO 554 - - 17
LONG POINT (Pvt) 640 - - 20
Pontiac
PONTIAC CHIEF CITY 990 1632 - - 31
Chenoa
Forrest
Fairbury
Chatsworth
GILMAN 630 - - 22
CLASSEN 650 - - 8
Watseka
Sheldon
Kentland
Goodland
ILLINOIS
INDIANA
Morocco
JASPER CO 676 L - 32
Chillicothe
Washburn
Minonk
Metamora
Roanoke
MT HAWLEY 800 L 30
Eureka
PEORIA
El Paso
Gilman
Onarga
Woodland
DISOSWAY 688 L - 26
Milford
MILFORD 650 - - 28
Washington
DORWARD 760 - - 22 (Private)
PONTIAC 117.5 PNT No voice DME
Lexington
HOREGGER 710 - - 23
BRADBURY (Pvt) 786 - - 26
Pekin
Morton
Carlock
Mackinaw
Danvers
Colfax
ROBERTS 116.8 RBS No voice
Oxford
GREATER PEORIA 655 L H 50 278 119.1 126.18 257.8
BLOOMINGTON 874 L H 37
Bloomington
Minier
Gibson City
Hoopeston
Delavan
Le Roy
Bellflower
CHANUTE AFB 737 L H 63 DF 309 126.35 236.6
Rossville
CORK 731 - - 26
Williamsport
San Jose
Lotus
Rantoul
Alvin
LINCOLN 591 - - 31
New Holland
Atlanta
CLINTON (Pvt) 720 - - 15 Farmer City
CHANUTE (ILL) RADIO (AF) 365 RAN
CHANUTE RADIO (AF) 201 RTU
Mansfield
Mahomet
CHAMPAIGN 753 - - 28
VERMILION CO 667 L H 40
Danville
STATE LINE
LOGAN COUNTY 595 - H 27
Midland City
Lincoln
Kenney
Clinton
Lodge
Champaign
Urbana
ILLINI 740 - - 26
Muncie
Catlin
HIGHLAND 585 - - 23
Veedersburg
DRAKE (Pvt) 600 - - 2
Maroa
UNIV OF ILLINOIS 752 L H 53
Cisco
Monticello
BS Sidney
WILL 580
Homer
Stockton
Westville
PALMER 600 - - 26
Wabash
To Terre Haute 2°E
248 HUF
115.3 HUF

ALTITUDE CONVERSION SCALE

For conversions above 100 feet, add like number of ciphers to the figures on both sides of scale.

89° B (Joins 359) 88° C

detic Survey

BASE NO 3R
REAS
Limits of
radials

NOTE: It is requested that users of this chart indicate corrections and additions which come to their attention and notify "THE DIRECTOR, U.S. COAST AND GEODETIC SURVEY, WASHINGTON 25, D.C."

Obstructions

500 feet or higher above ground
Less than 500 feet above ground
Under construction, position and elevation unverified UC

SCALE

ILLINOIS RIVER (308)

UNITED STATES

U.S. AIR FORCE EDITION

23RD EDITION Aeronautical information on this chart includes data received through June 19, 1956

Consult appropriate NOTAMS and Radio Facility Charts for supplemental data and current information.

Next edition is scheduled in approximately six months.

E 1:1,000,000

EOREF 6-56

AERONAUTICAL CHART SUPPLY

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

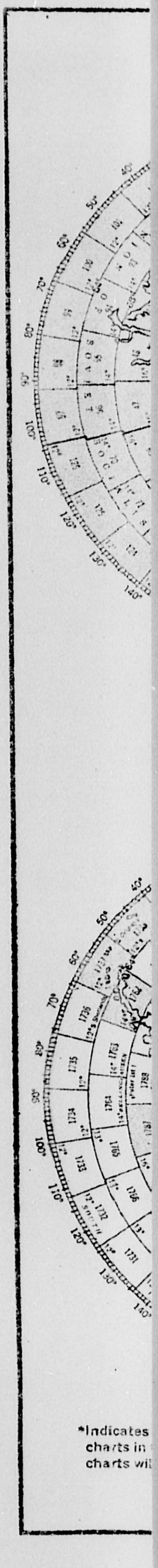
4. **Obsolete Charts:** Aeronautical charts rendered obsolete by printing of a new edition shall be salvaged if not practicable to correct for conformity with new edition. Disposition is to be made in accordance with provisions of AFR 67-3. Disposition of classified charts is to be made in accordance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

RADIOTELEGRAPH CODE AND PHONETIC ALPHABET

INTERNATIONAL (ICAO)

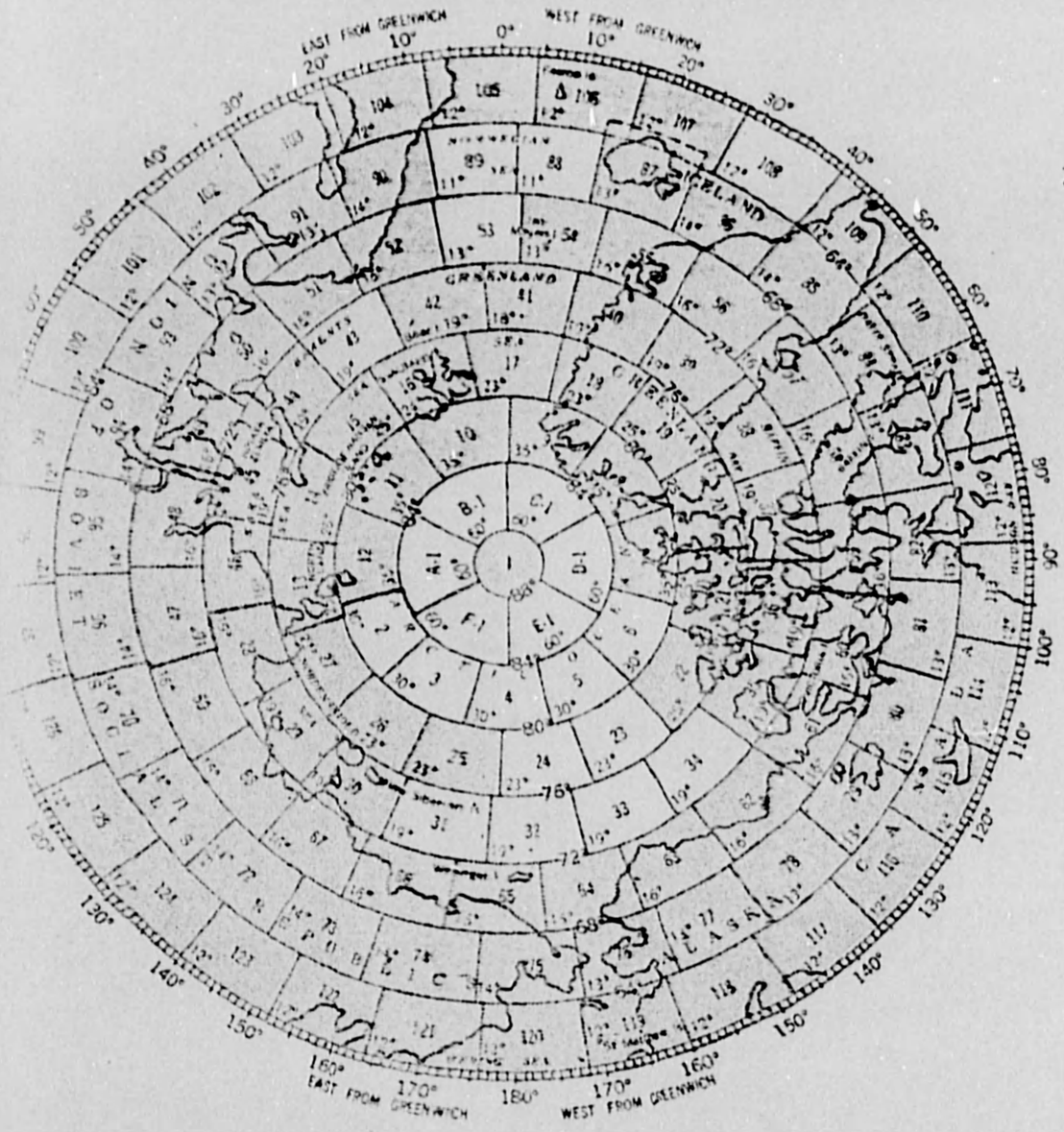
A—ALFA ·—	K—KILO —·—	U—UNIFORM ··—	0—ZE-RO —————
B—BRAVO —···	L—LIMA ·—··	V—VICTOR ···—	1—WUN ·————
C—CHARLIE —·—·	M—MIKE ——	W—WHISKEY ·——	2—TOO ··———
D—DELTA —··	N—NOVEMBER —·	X—XRAY —··—	3—TREE ···——
E—ECHO ·	O—OSCAR ———	Y—YANKEE —·——	4—FOW-er ····—
F—FOXTROT ··—·	P—PAPA ·——·	Z—ZULU ——··	5—FIFE ·····
G—GOLF ——·	Q—QUEBEC ——·—		6—SIX —····
H—HOTEL ····	R—ROMEO ·—·		7—SEV-en ——···
I—INDIA ··	S—SIERRA ···		8—AIT ———··
J—JULIETT ·———	T—TANGO —		9—NIN-er ————·

5-1-56

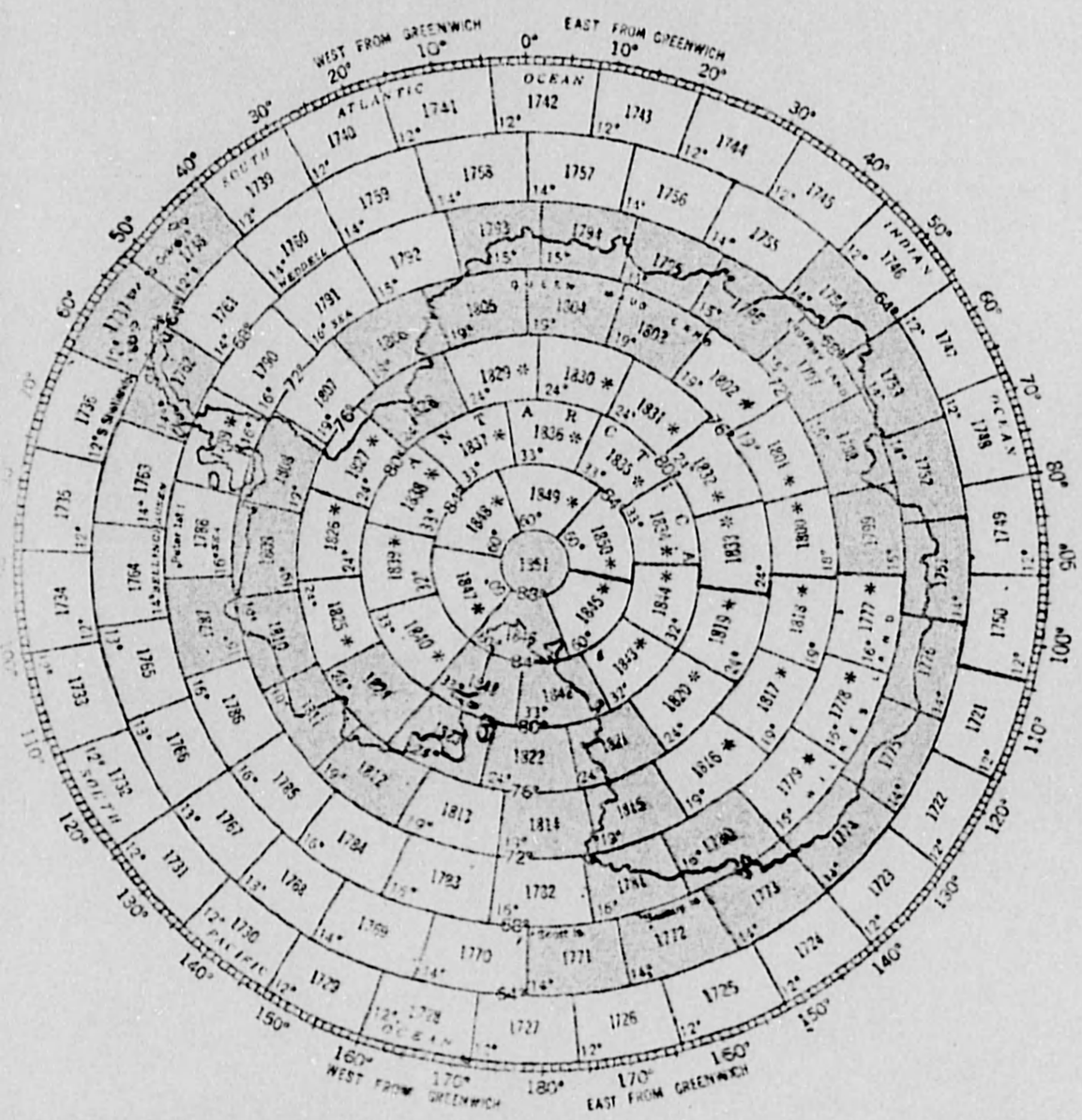


*Indicates
charts in
charts wi

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.

WOI

AERONAUTICAL SYMBOLS

AERODROMES

Aerodromes with facilities

LAND	WATER	
○	⚓	Civil
◎	⚓	Joint Civil and Military
◎	⚓	Military

Aerodromes with emergency or no facilities

LAND	WATER	
O		Landing Area
	⚓	Sheltered Anchorage

Methods of indicatin

Radio Range
(With voice)

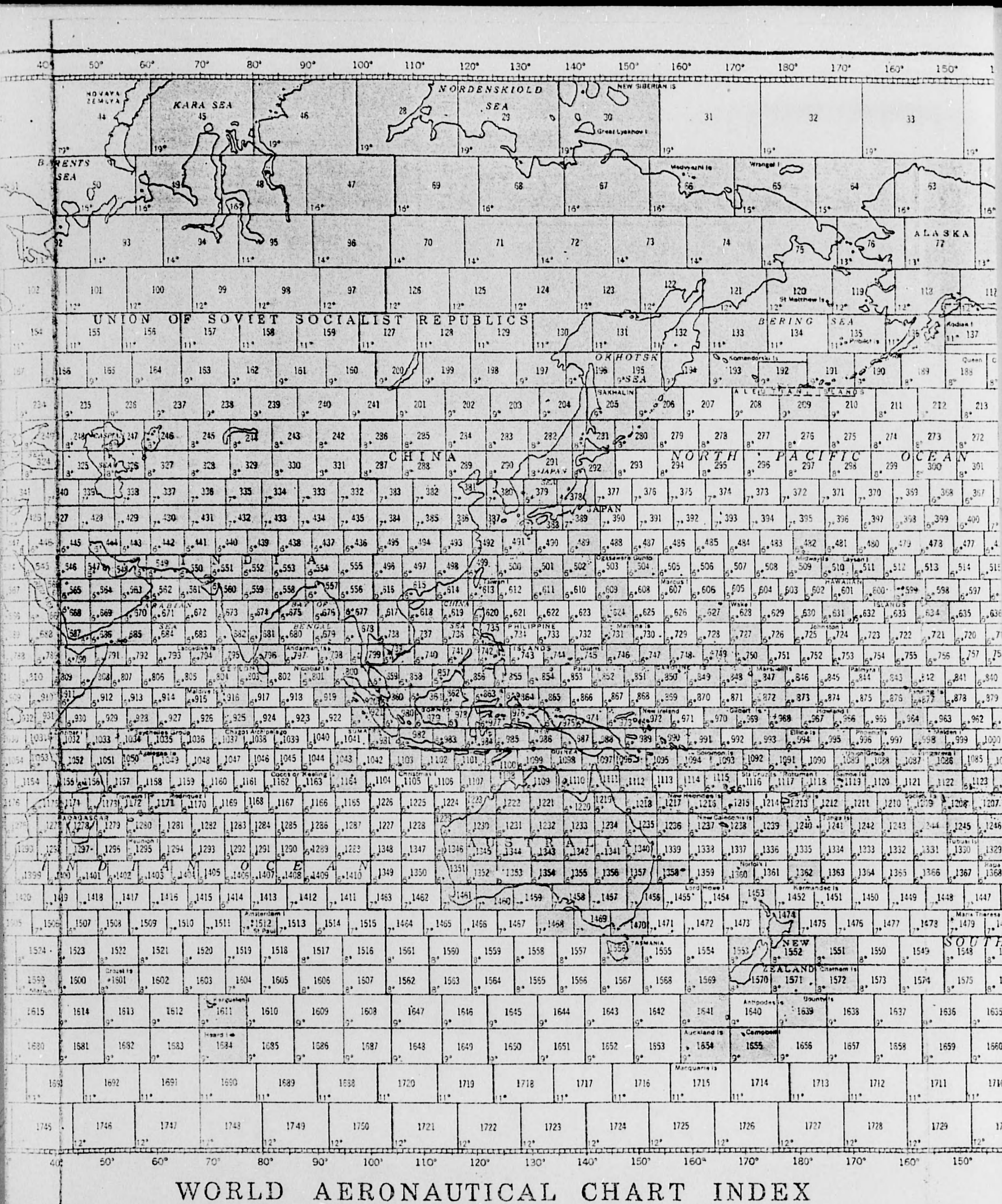
Radio Range
(Without voice)

Nondirectional R
(With voice)

Nondirectional R
(Without voice)

AERODROME DATA AND LANDING FACILITIES INFORMATION

LAND		WATER	
BARGERSVILLE 908 L H 41	908 Elevation in feet	00	Elevation in feet
		NAS ANACOSTIA 00 L S 62	



WORLD AERONAUTICAL CHART INDEX

Scale of Series 1:1,000,000

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 Range (Without voice) — ELGIN 200 VPS "No voice"

Nondirectional Radiobeacon (With voice) — DOUGLAS RADIO 251 DGW

Nondirectional Radiobeacon (Without voice) — DIXIE 388 DXE "No voice"

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

Radio Communication Station (Without voice) — CS KAZAN 5200 KNX "No voice"

Radio Broadcasting Station — BS CFRB 1010

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

Metropo

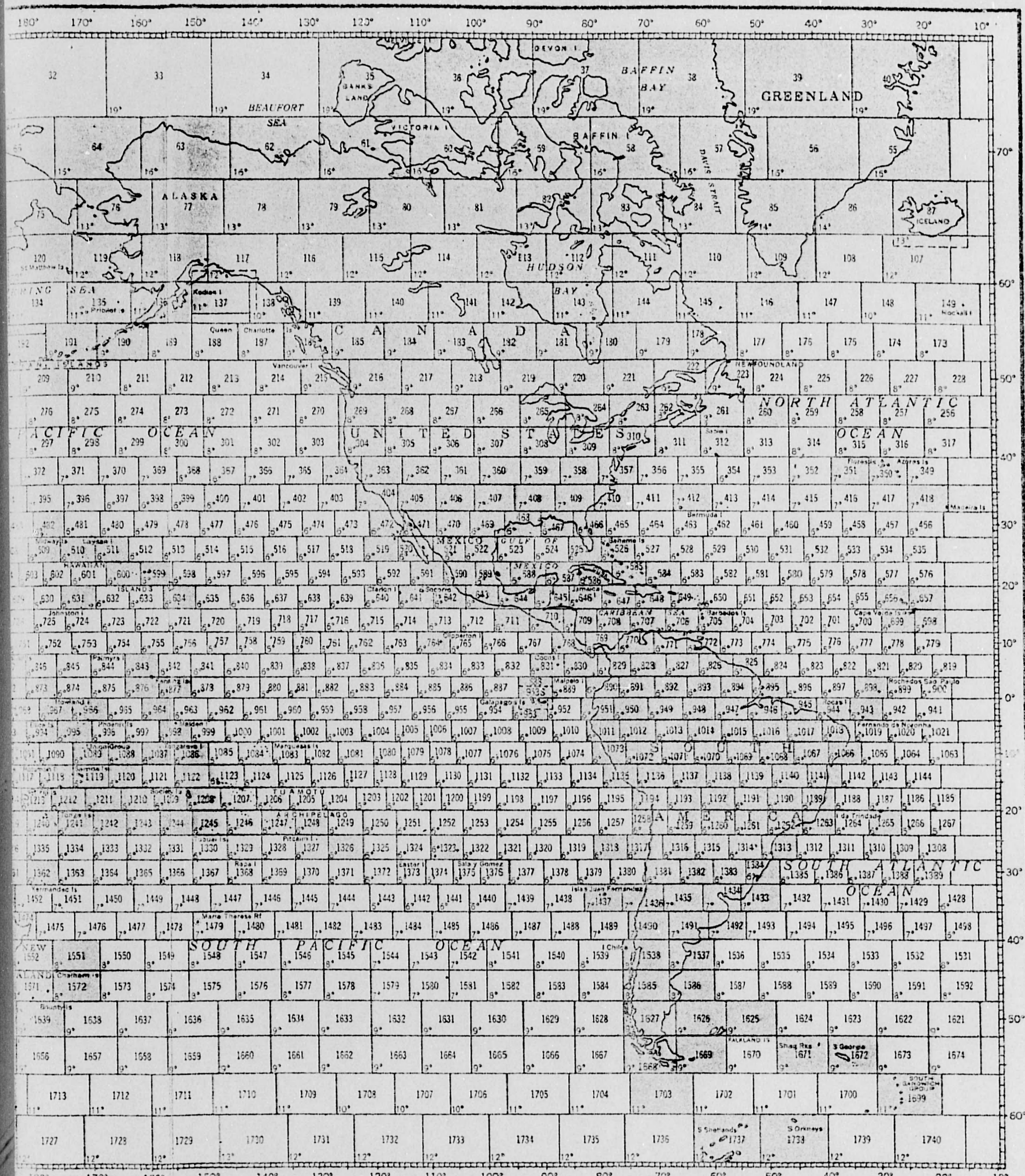
Large C

Cities

Small C

Large T

Towns


BEAUFORT SEA
BANKS LAND
VICTORIA I
DEVON I
BAFFIN BAY
BAFFIN I
DAVIS STRAIT
GREENLAND
ALASKA
ICELAND
HUDSON BAY
BERING SEA
Kodiak I
Pribilof Is
Queen Charlotte Is
CANADA
Vancouver I
NEWFOUNDLAND
PACIFIC OCEAN
UNITED STATES
NORTH ATLANTIC OCEAN
Sable I
Bermuda I
Azores Is
MEXICO
GULF OF MEXICO
Jamaica
CARIBBEAN SEA
Barbados Is
Cape Verde Is
Clipperton I
Cocos I
Malpelo I
Galapagos Is
Rocas I
Fernando de Noronha
HAWAIIAN ISLANDS
Johnston I
Palmyra I
Fanning Is
Howland I
Baker I
Phoenix Is
Malden
Line Is
Tonga Is
Samoa Is
Society Is
TUAMOTU ARCHIPELAGO
Tubuai Is
Pitcairn I
Rapa I
Easter I
Sala y Gomez
Islas Juan Fernandez
Marquesas Is
Tahiti
Marie Theresa Rf
Penrhyn I
Manihiki Is
Rakahanga Is
Nassau Is
Suwarrow I
Palmerston I
Niue I
Cook Is
NEW ZEALAND
Chatham Is
Kermadec Is
Norfolk I
Lord Howe I
Macquarie I
SOUTH PACIFIC OCEAN
Chile
Falkland Is
Shag Rks
S Georgia
South Sandwich Group
S Shetlands
S Orkneys
SOUTH ATLANTIC OCEAN
Ile de Trinidade
Rocas I
Rocheds Sao Paulo
Martin Vaz Is
St Matthew Is
Prince of Wales I
Admiralty I
Baranof I
Chichagof I
Kruzof I
Sitka
Yakutat Bay
Mt St Elias
Mt McKinley
Mt Logan
Mt Robson
Mt Whitney
Mt Rainier
Mt Hood
Mt Shasta
Mt Lassen
Mt Hamilton
Mt Diablo
Mt Wilson
Mt Palomar
Mt Pinos
Mt San Jacinto
Mt San Antonio

RADIOTELEGRAPH CODE AND PHONETIC ALPHABET

INTERNATIONAL (ICAO)

A—ALFA	·—	K—KILO	—·—	U—UNIFORM	··—	0—ZE-RO	—————
B—BRAVO	—···	L—LIMA	·—··	V—VICTOR	···—	1—WUN	·—————
C—CHARLIE	—·—·	M—MIKE	——	W—WHISKEY	·——	2—TOO	··————
D—DELTA	—··	N—NOVEMBER	—·	X—XRAY	—··—	3—TREE	···———
E—ECHO	·	O—OSCAR	———	Y—YANKEE	—·——	4—FOW-er	····—
F—FOXTROT	··—·	P—PAPA	·——·	Z—ZULU	——··	5—FIFE	·····
G—GOLF	——·	Q—QUEBEC	——·—			6—SIX	—····
H—HOTEL	····	R—ROMEO	·—·			7—SEV-en	——···
I—INDIA	··	S—SIERRA	···			8—AIT	———··
J—JULIETT	·———	T—TANGO	—			9—NIN-er	————·

5-1-55

*Indicates
charts in
charts with

U. S. PROHIBITED, RESTRICTED, CAUTION, AND WARNING AREAS ON WORLD AERONAUTICAL CHART 308

NO.	NAME	ACTIVITY	CONTROLLING AGENCY	ALTITUDE	TIME
R-76	Glenview	Aerial Gunnery	NAS Glenview, Ill.	Unltd.	Unltd.
R-83	Sheboygan	Aerial Gunnery and Rocketry	10th Air Force, Selfridge AFB, Mich.	To 40,000	Days
R-84	Haven	Antiaircraft Artillery Firing	C.O. Camp Haven, Wisc.	To 85,000	Unltd.
R-200	Camp McCoy	Gunnery	Commanding Gen., Camp McCoy, Wisc.	To 25,000	Unltd.
R-437	Little Sable Point	Antiaircraft Artillery Firing	C.O. Camp Claybanks, New Era, Mich.	To 60,000	Unltd.
R-468	Camp Williams	Air-to-Ground Bombing and Gunnery	Adj. Gen. State Wisconsin, Madison, Wisc.	To 12,000	Unltd.
R-498	Savanna	Demolition	Savanna Ordnance Depot Savanna, Ill.	To 1,900	Unltd. 12-20-55 to 7-15-56

Altitude given in feet. P - Prohibited R - Restricted C - Caution W - Warning 6-19-56

Unauthorized flight is not permitted within a Prohibited Area, or within a Restricted Area during the time of use and between the altitudes noted in the tabulation (Authorization may be granted by the controlling agency or by Executive Order of the President).

Flight within Caution Areas is not restricted, but pilots are advised to exercise extreme caution.

Rotating
Rotating
Rotating
Flashing

F—Fixed
Fl—Flash

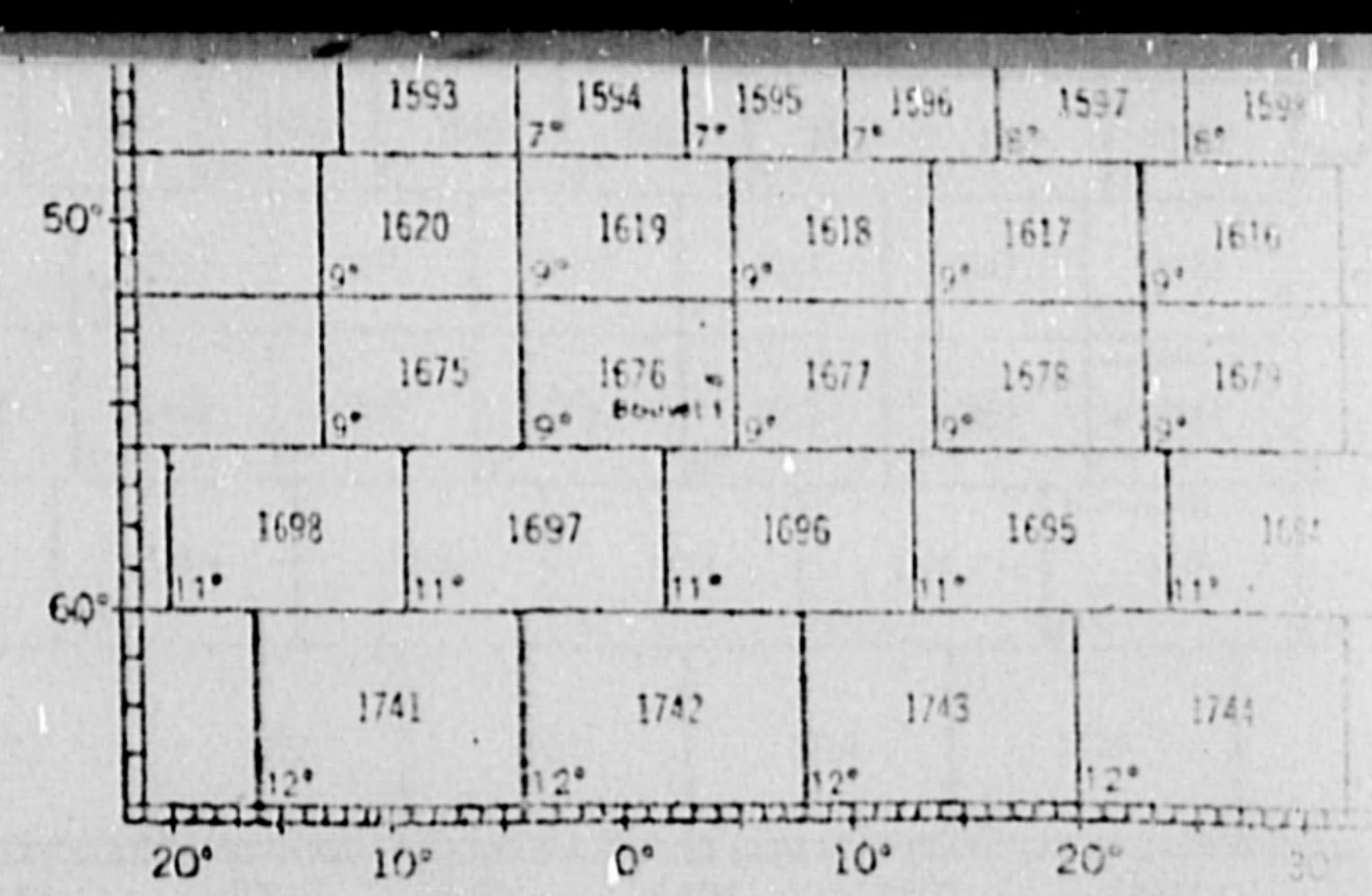
Obstru
Obstruct
(Num
Group
Prominent
Mooring
Isogonic
Restricte

BARGE
SOC
Airc
GCA
278

-ZE-RO
-WUN
-TOO
-TREE
-FOW-er
-FIFE
-SIX
-SEV-en
-AIT
-NIN-er

5-1-55





*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.

AERONAUTICAL SYMBOLS

AERODROMES

Aerodromes with facilities			Aerodromes with emergency or no facilities		
LAND	WATER		LAND	WATER	
		Civil			Landing Area
		Joint Civil and Military			Sheltered Anchorage
		Military			

AERODROME DATA AND LANDING FACILITIES INFORMATION

LAND

BARGERSVILLE
908 L H 41
Airport of entry
GCA ILS DF
278 126.18

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

WATER

- 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 ILS — Controlled approach systems.
- DF — Direction finding station.
- 278 126.18 2870 — Control tower transmitting frequencies

AIR NAVIGATION LIGHTS

- Rotating Light
- Rotating Light (With flashing code lights)
- Rotating Light (With course lights and site number) 12
- Flashing Light Fl
- Flashing Light (With code) Fl
- Lightship
- Marine Light OccWRG

F—Fixed; Fl—Flashing; QkFl—Quick Flashing; IQkFl—Interrupted Quick Flashing; Occ—Occulting; Alt—Alternating; Gp—Group; R—Red; W—White; G—Green; B—Blue; (U)—Unwatched; SEC—Sector; 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
- Obstruction, 500 feet or higher above ground 1937 (Numerals indicate elevation above sea level of top)
- Group Obstruction
- Prominent Transmission Line
- Mooring Mast
- Isogonic Line — 4°E — Values for 1955
- Reporting Point (Compulsory)
- Reporting Point (Non-compulsory)
- Ocean Station Vessel (Normal position)
- International Boundary (Closed to passage of aircraft except through air corridor)

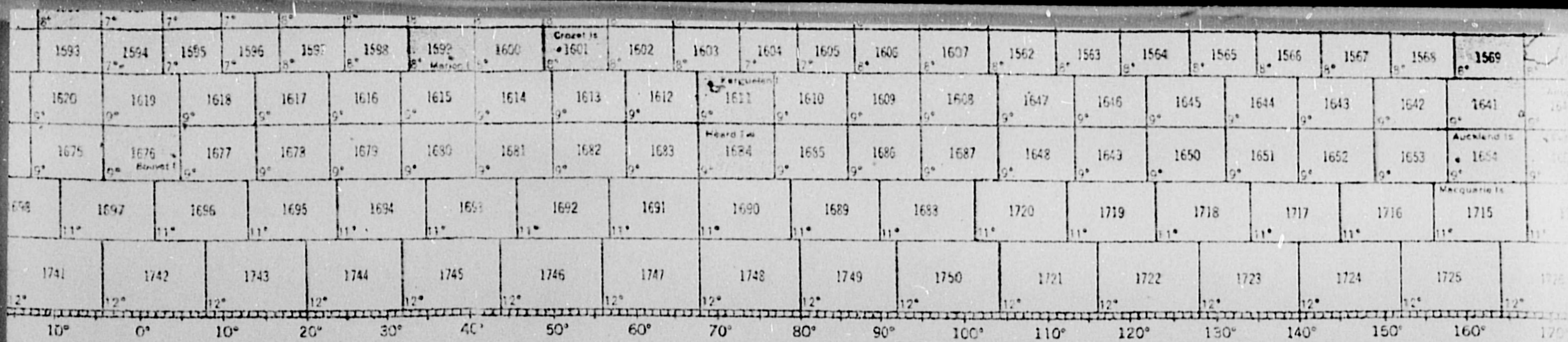
Restricted areas are numbered, and are indicated on the charts as follows:

- PROHIBITED AREA (P-78) — Prohibited Area — Flight of aircraft prohibited except by specific authority of using agen[cy]
- RESTRICTED OR WARNING AREA (R-32) OR (W-46) — Restricted or Warning Area — Invisible hazards to air navigation
- CAUTION AREA (C-54) — Caution Area — Visible hazards to air navigation

AREAS

ALTITUDE	TIME
Unltd.	Unltd.
To 40,000	Days
To 85,000	Unltd.
To 25,000	Unltd.
To 60,000	Unltd.
To 12,000	Unltd.
To 1,900	Unltd. 12-20-55 to 7-15-56

arning 6-19-56
etween the altitudes noted



WORLD AERONAUTICAL CHART IN

Scale of Series 1:1,000,000

LS

with emergency or no facilities

WATER

Landing Area

Sheltered Anchorage

ATION

WATER

feet

ghting

tered take-off area

ngest runway

of feet

pecific

t available.

NAS ANACOSTIA
00 L S 62
2870

TS

ight (With code) ..... Fl ☆

.....

ht ..... Occ W R G

W—White B—Blue SEC—Sector
G—Green (U)—Unwatched sec—Second

and white unless otherwise indicated

Point (Compulsory) ..... ▲

Point (Non-compulsory) ..... △

tion Vessel (Normal position) .....

al Boundary .....
ssage of aircraft
gh air corridor)

ohibited except by specific authority of using agency

ible hazards to air navigation

navigation

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

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

Radio Range ..... (Without voice)
ELGIN
209 VPS
"No voice"

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

Nondirectional Radiobeacon ..... (Without voice)
DIXIE
388 DXE
"No voice"

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

Use of the word "Radio" within the box

Radio Communication Station ..... (With voice)

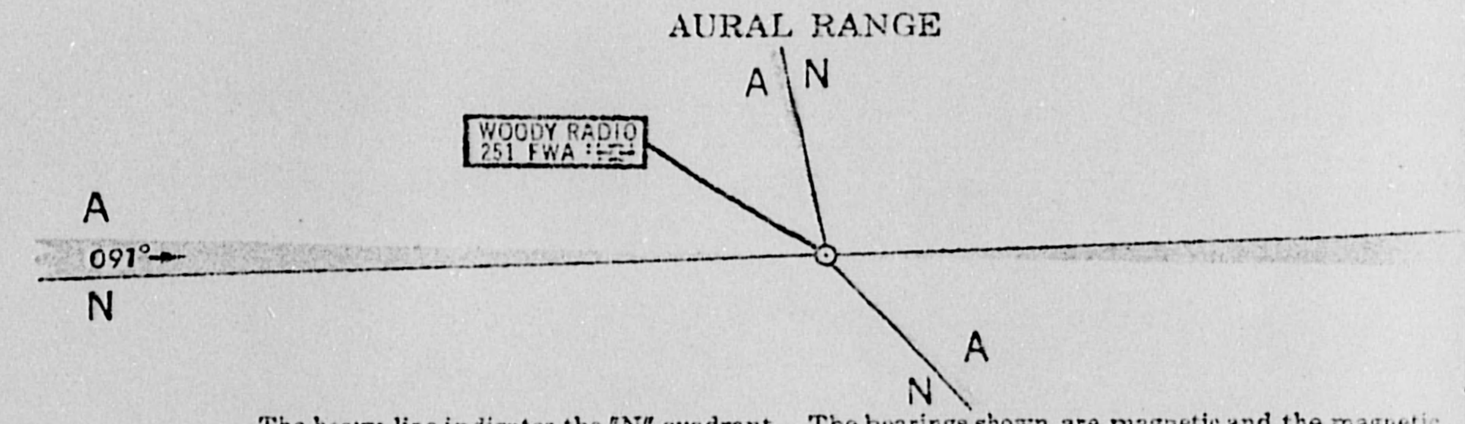
Radio Communication Station ..... (Without voice)

Radio Broadcasting Station .....

Radar Beacon (Racon) .....

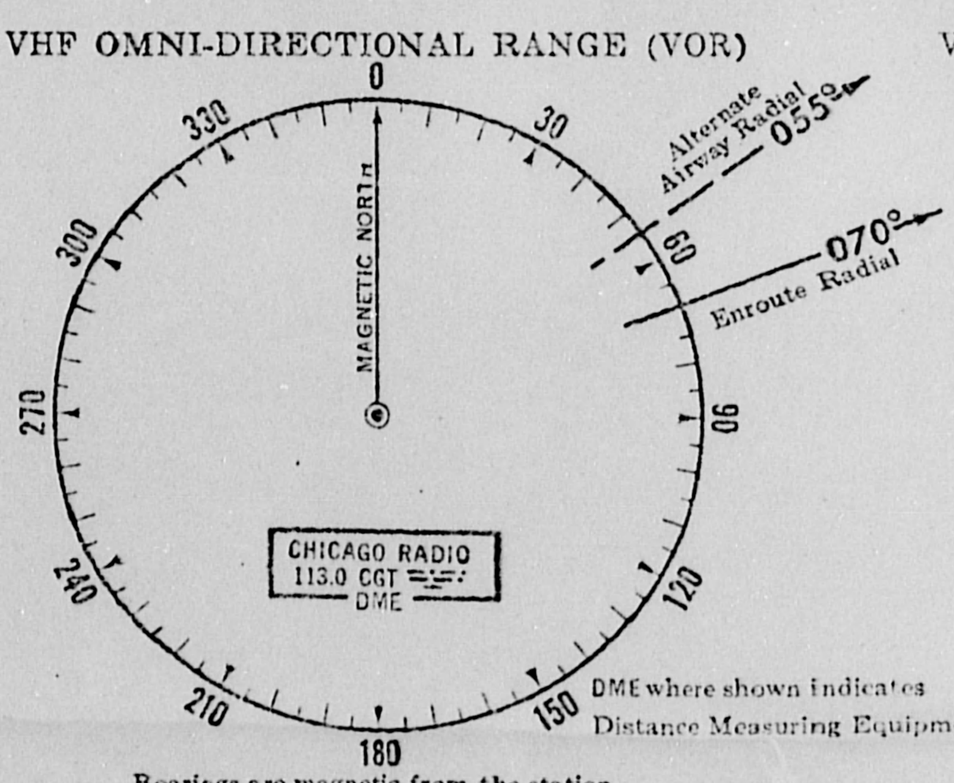
Radio Fan Marker Beacons 100

AURAL RANGE



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.

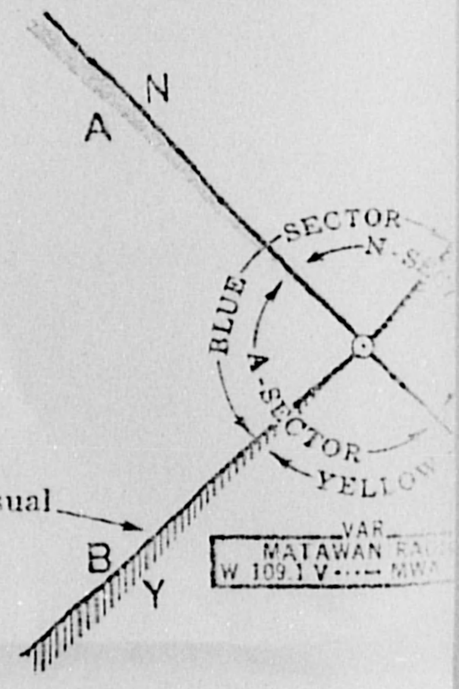
VHF OMNI-DIRECTIONAL RANGE (VOR)



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

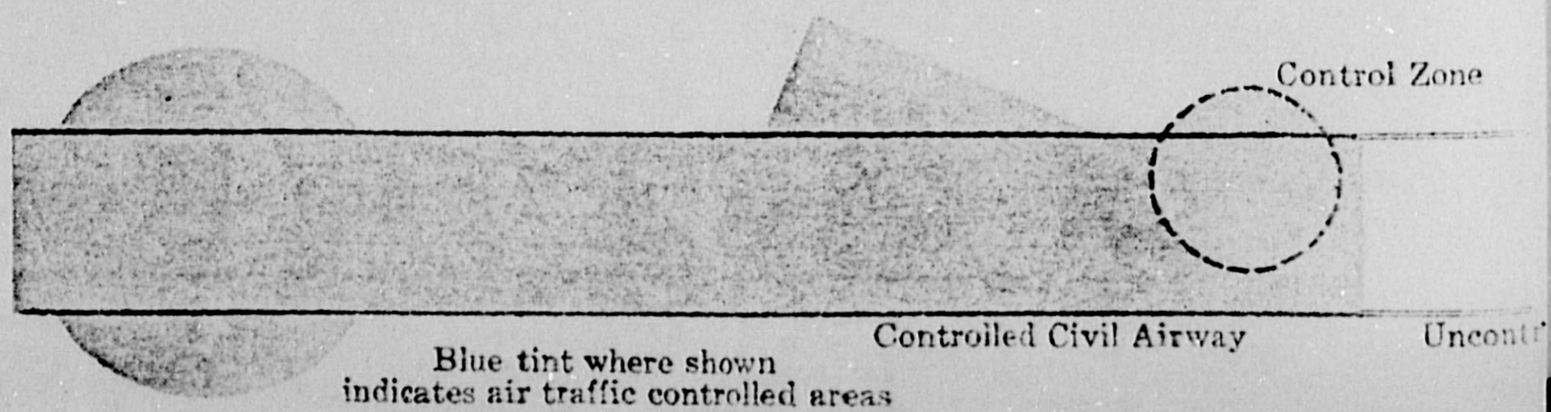
DME where shown indicates Distance Measuring Equipment

VHF FOUR COURSE VISUAL-A

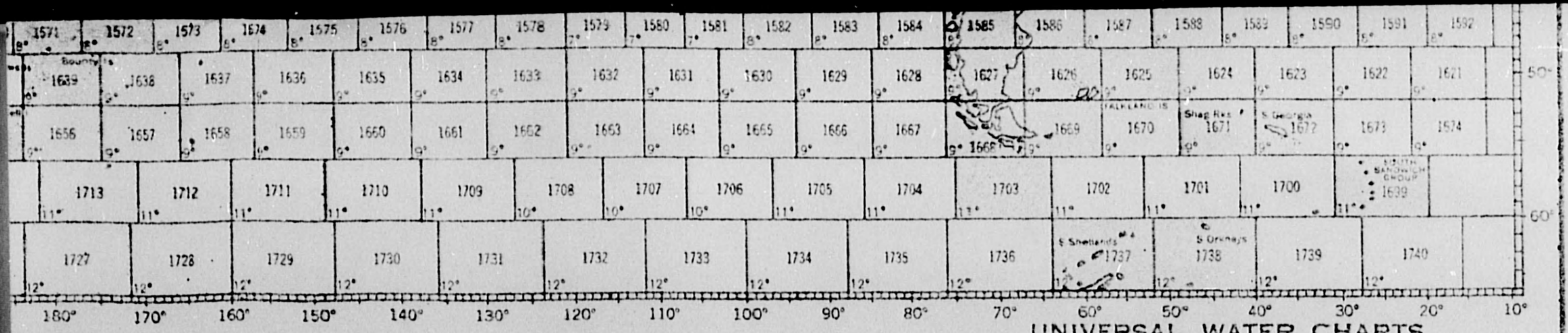


Letter preceding frequ... indicates channel ind...

AIR TRAFFIC CONTROL



Blue tint where shown indicates air traffic controlled areas



EX

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**

tes voice facilities.

CS GOWEN RADIO 4470

CS KAZAN 5200 CKNX "No voice"

BS CFRB 1010

RACON 3256 2-1-2

NOTT

BATES

DIXIE

N 71° A

. RANGE (VAR)

B Y

ivil Airway

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 60

National, State or Provincial Road Markers 37

Road Names ..... ALASKA HIGHWAY

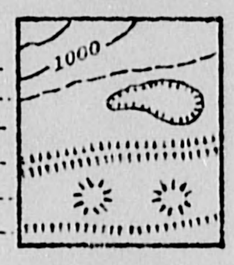
RELIEF FEATURES

Contours { Reliable; Approximate; Depression }

Levees or Eskers

Hachures

Bluffs, Cliffs & Escarpments



Sand { Dunes; Areas; Ridges }

Lava Flow



HYDROGRAPHIC FEATURES

Swamps & Marshes

Tidal Flats (Exposed at low tide)

Danger Line

Rocks Awash

Shoals (Exposed at low tide)

Springs

Wells & Water Holes

Reefs, Coral & Rocky Ledges (Awash at low tide)



Streams & Rivers { Perennial; Intermittent; Probable or Unsurveyed; Braided }

Intermittent Lakes (blue stipple)

Drainage Ditches

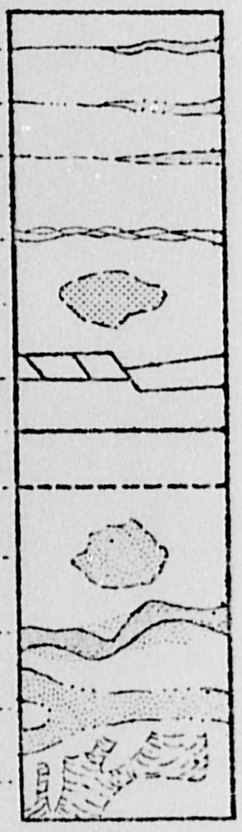
Canals { In use; Abandoned }

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) (Numerals indicate elevation above sea level of top)

Oil Tanks

Oil Fields

Dams

Elevations (In feet) { Highest on chart (Highest on chart is devoid of tint); Highest in a general area; Spot }

Mines and Quarries

Mountain Passes

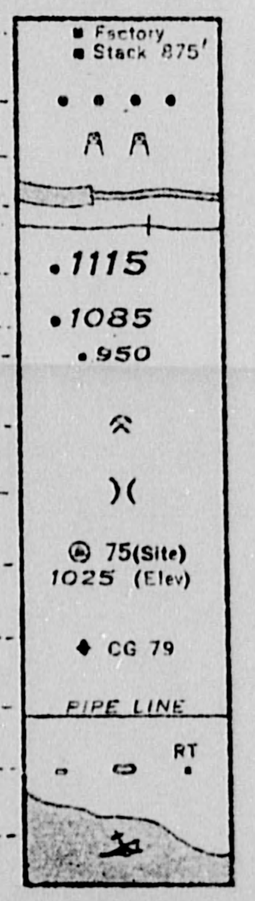
Lookout Stations (Elevation is base of tower)

Coast Guard Stations

Pipe Lines

Race Tracks or Stadiums

Stranded Wrecks

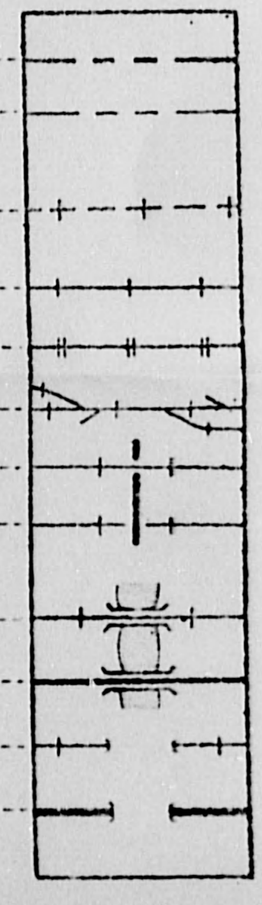


Boundaries { International; State & Provincial }

Railroads { Abandoned or Under Construction; Single Track; Multiple Track; Sidings & Spurs; Overpass; Underpass }

Bridges { Railroad; Highway }

Tunnels { Railroad; Highway }



Aural N A