PROJECT 10073 RECORD CARD

1. DATE	2. LOCATION	12. CONCLUSIONS
4 June 1963	Mesa, Arizona	☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon
3. DATE-TIME GROUP Local Dusk GMT 05/0635Z (?)	**4. TYPE OF OBSERVATION** XX BX Ground-Visual ☐ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar	☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft
5. PHOTOS ☐ Yes ☒ No	**6. SOURCE** civilian	☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical
7. LENGTH OF OBSERVATION 25 min	**8. NUMBER OF OBJECTS** one	**9. COURSE** SW
		XX Other Sun Dog ☐ Insufficient Data for Evaluation ☐ Unknown

10. BRIEF SUMMARY OF SIGHTING

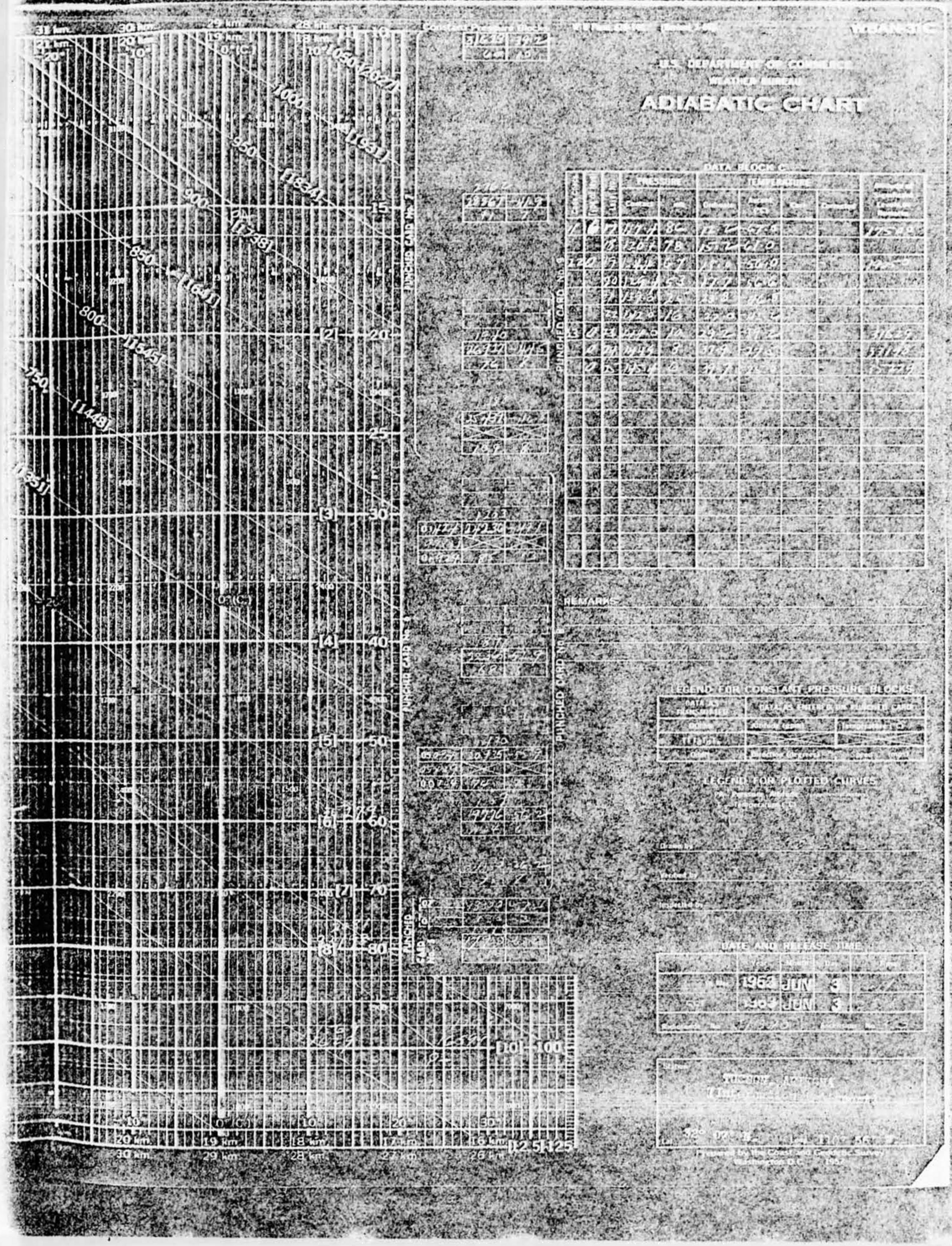
See case file.

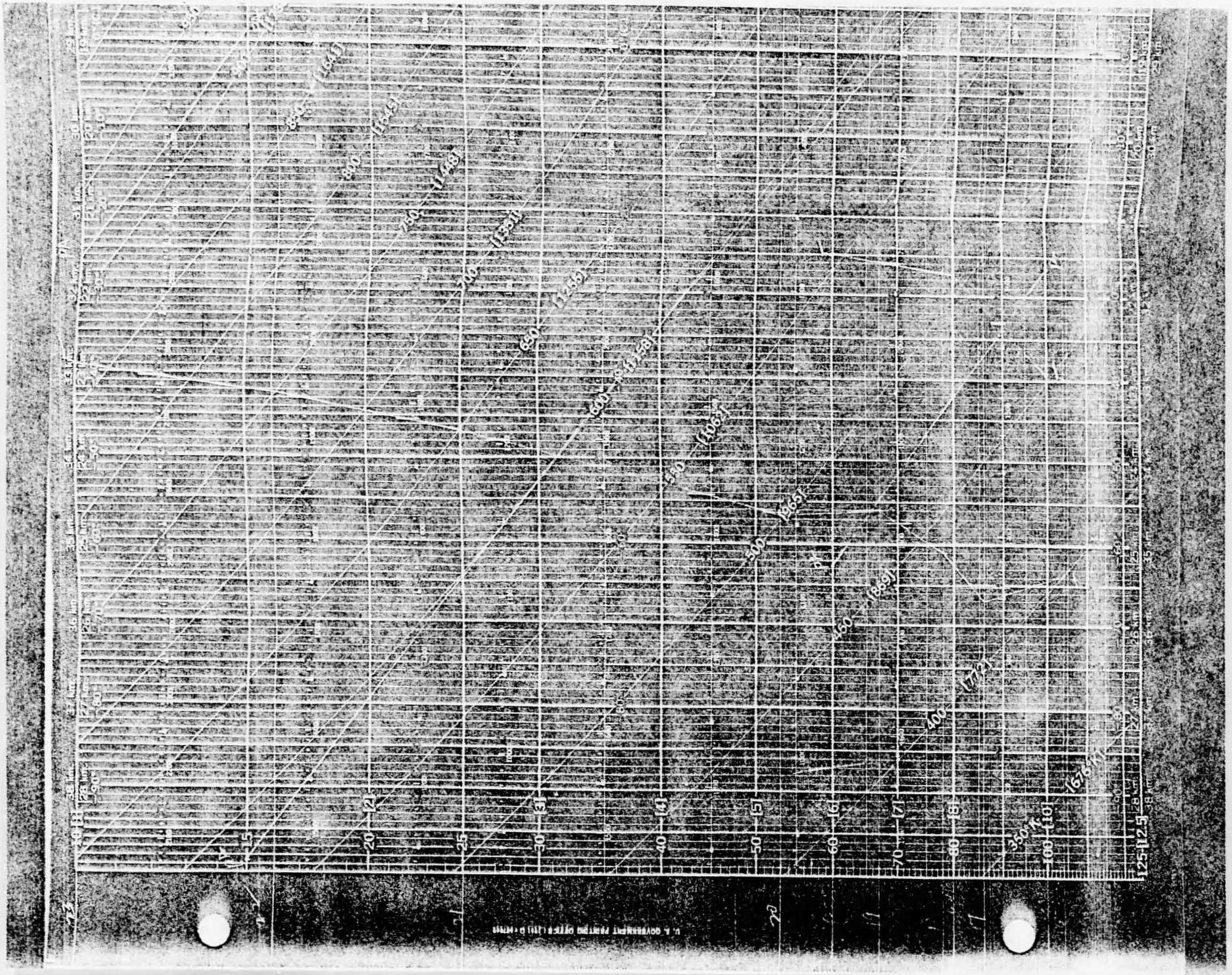
(SKETCH IN FILE)

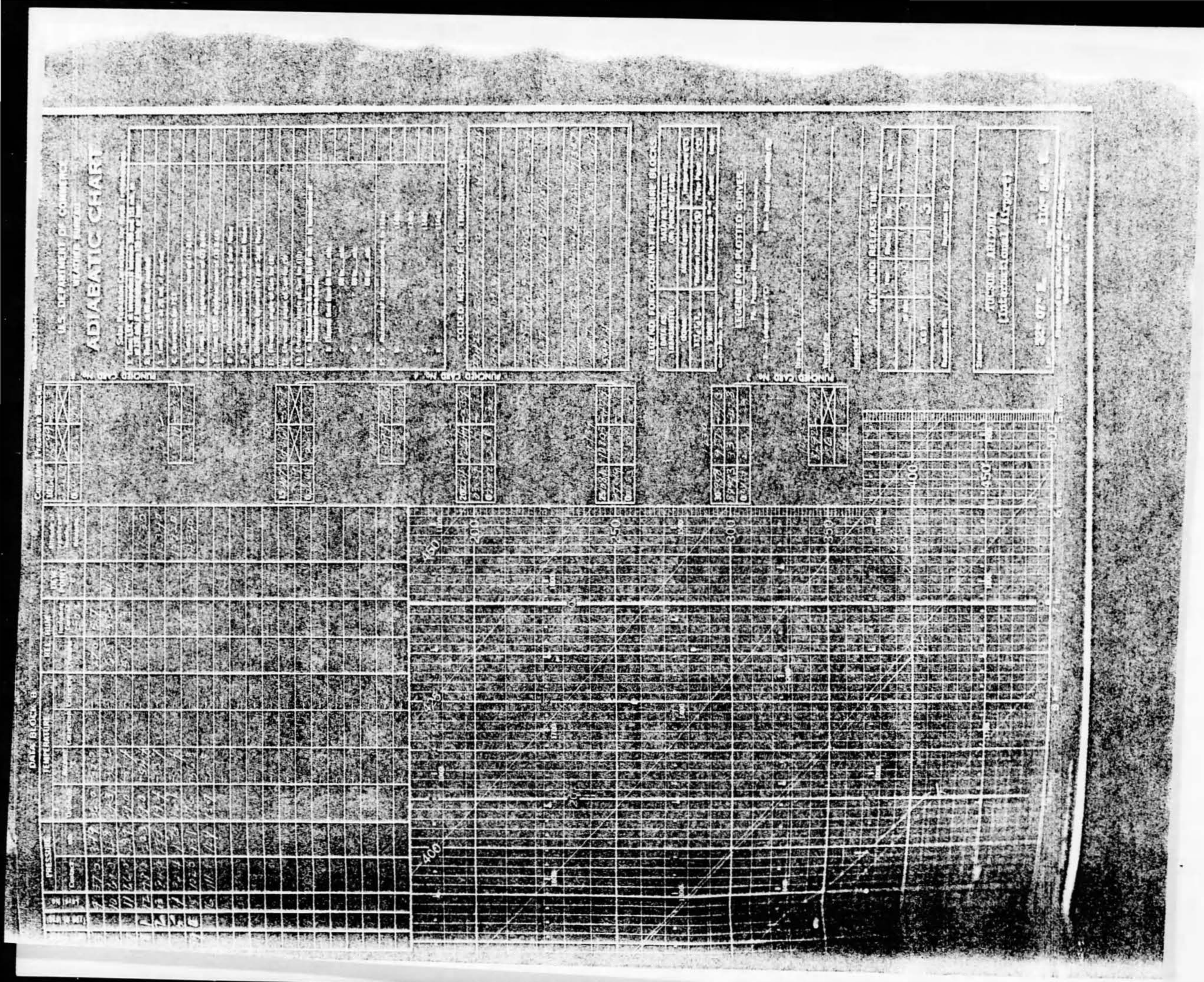
11. COMMENTS

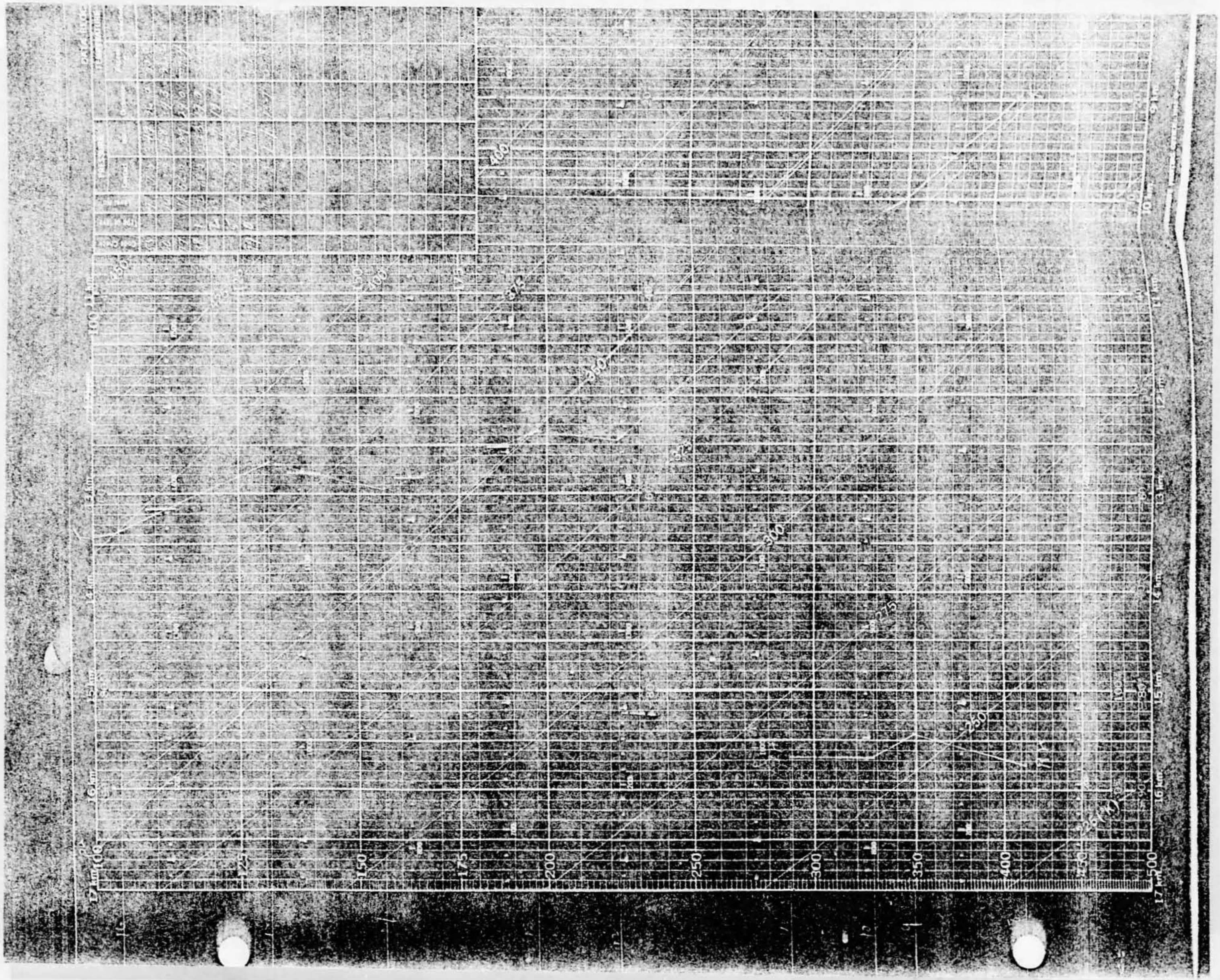
Description of sighting indicates that a Sun Dog was the most probably cause.

ATIC FORM 329 (REV 26 SEP 52)


ADIABATIC CHART
DATA BLOCK C
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
1963 JUN 3
1963 JUN 3
0 10 20 30
20 km 19 km 18 km 17 km 16 km
30 km 29 km 28 km 27 km 26 km
12.5 25
100




ADIABATIC CHART



DATA BLOCK A

SURFACE OBSERVATION AT RELEASE

PRESSURE

CONTACT

TEMPERATURE

RELATIVE HUMIDITY

WIND

CLOUDS AND WEATHER

WBAN 31A

U.S. DEPARTMENT OF COMMERCE

WEATHER BUREAU

ADIABATIC CHART

BASELINE CHECK READINGS

TEMPERATURE

RELATIVE HUMIDITY

CODED MESSAGE FOR TRANSMISSION

REMARKS

LEGEND FOR CONSTANT PRESSURE BLOCKS

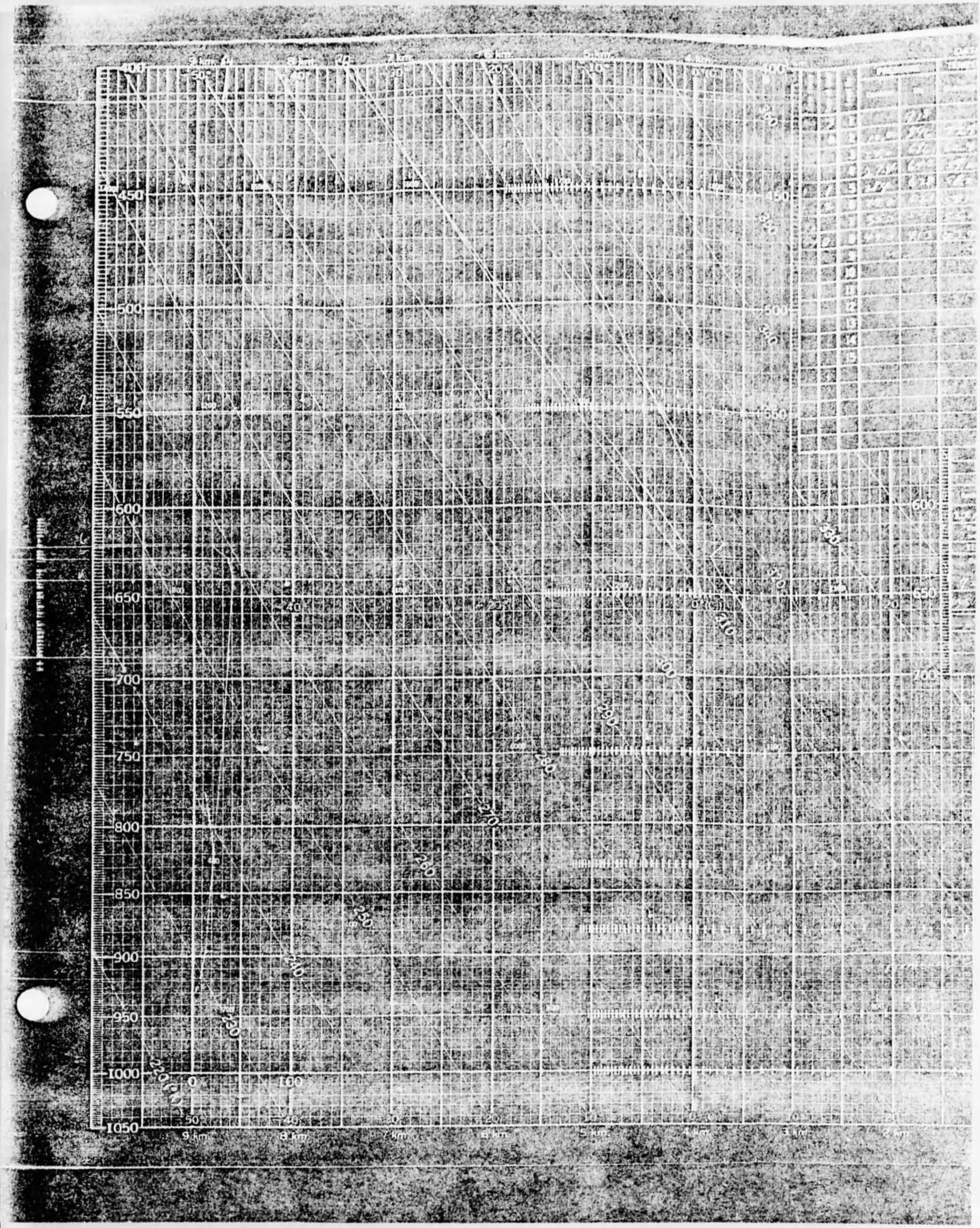
LEGEND FOR PLOTTED CURVES

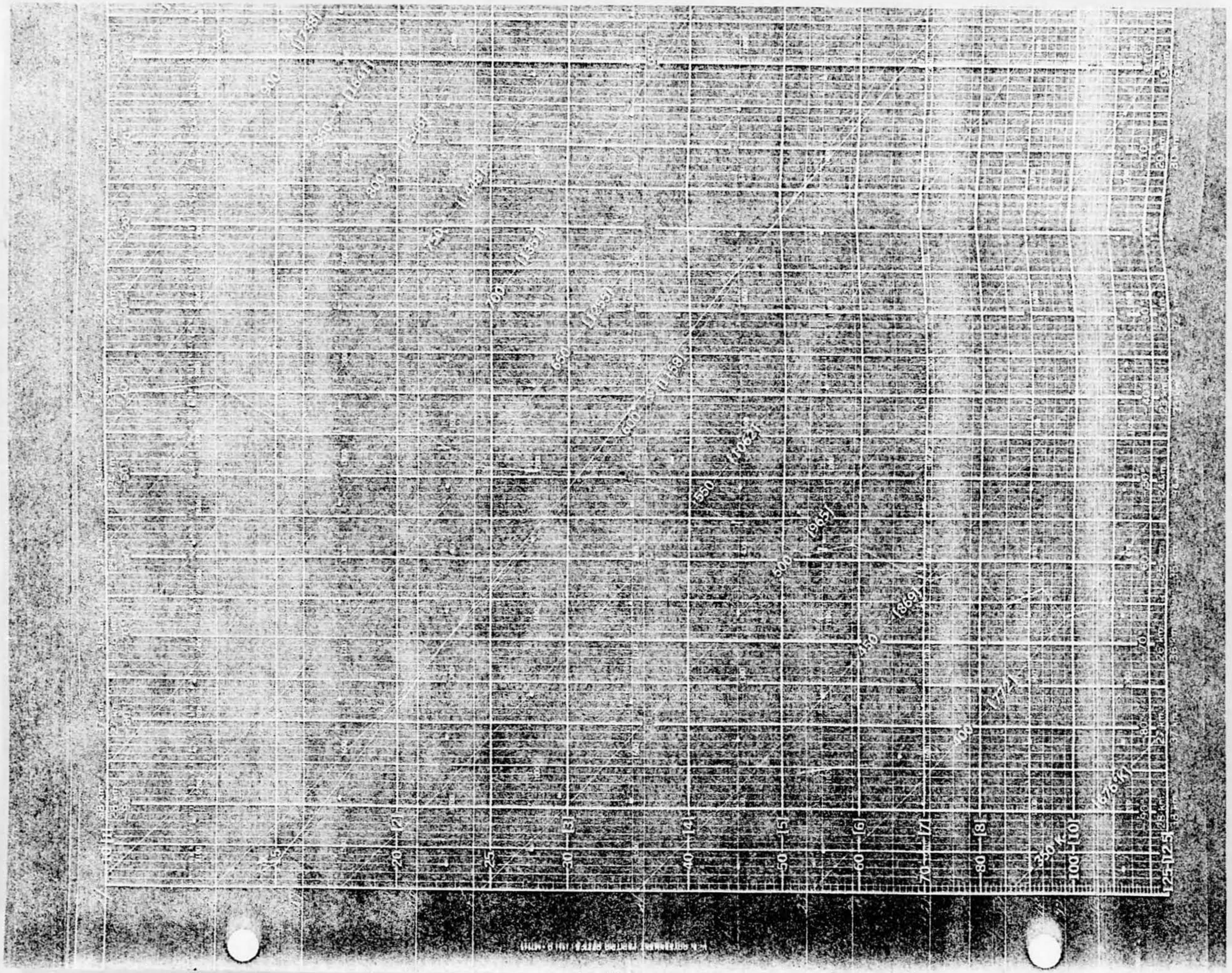
DATE AND RELEASE TIME

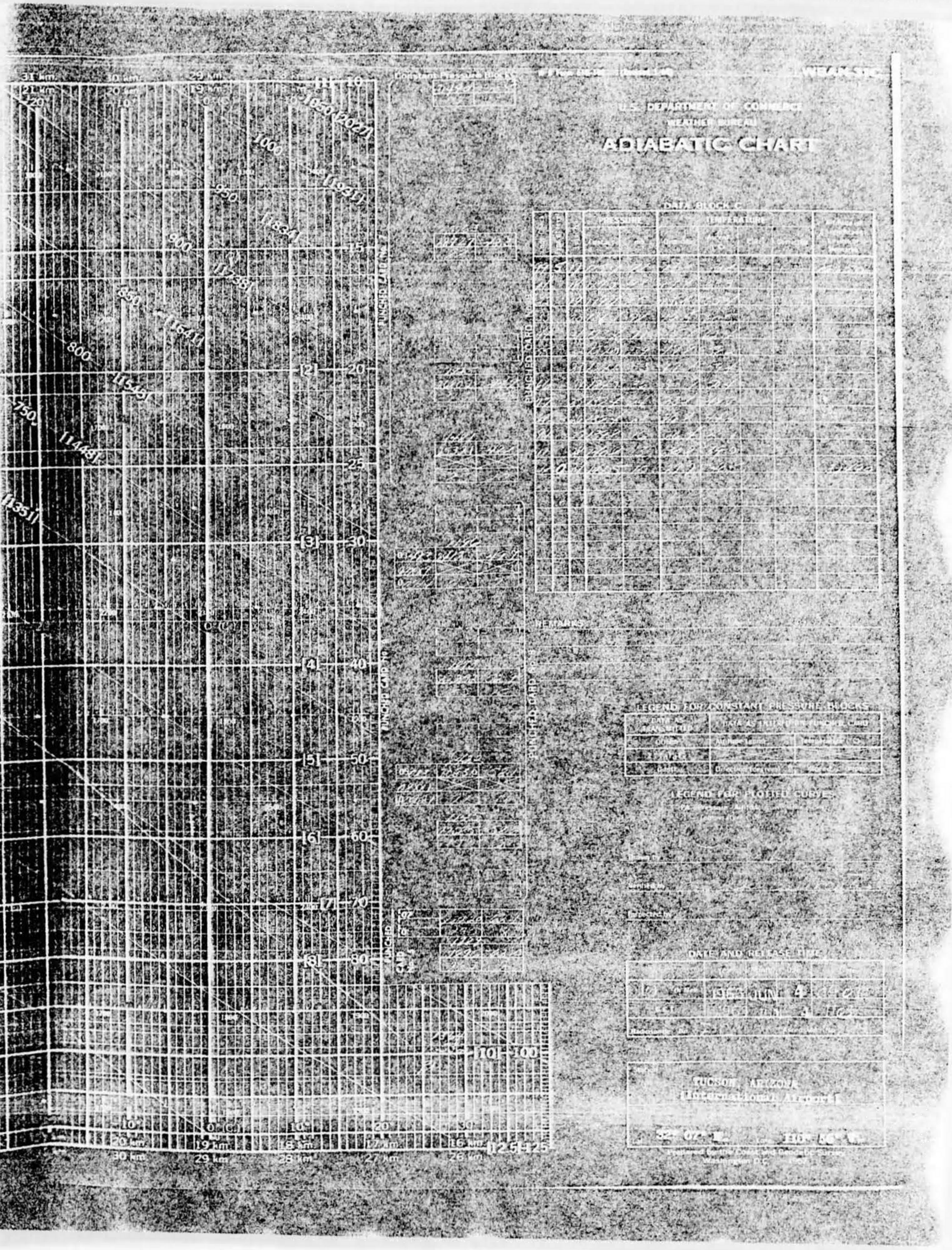
1963 JUNE 3

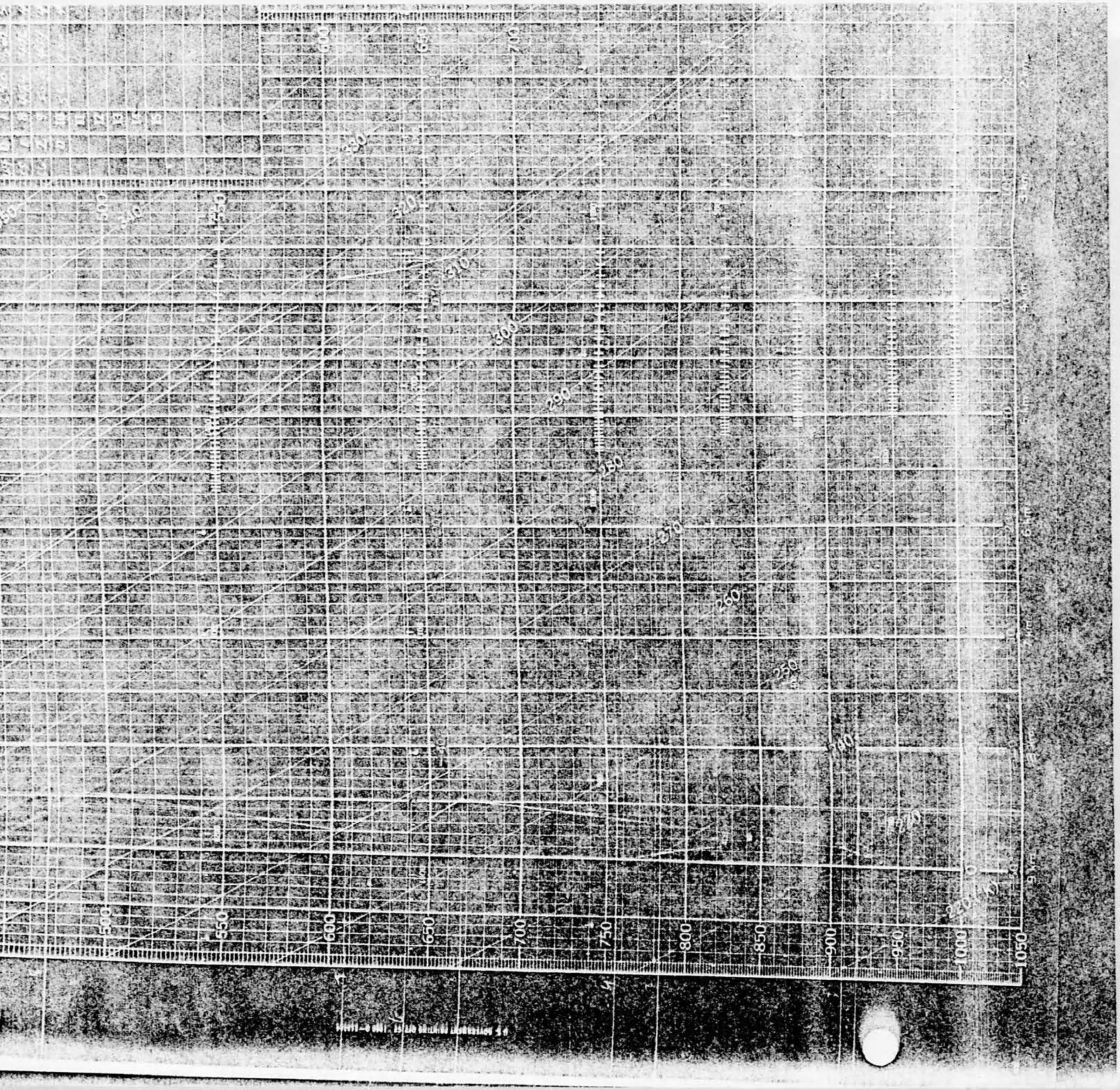
1963 JUNE 3

TUCSON, ARIZONA


400
450
500
550
600
650
700
750
800
850
900
950
1000
1050
9 km
8 km
7 km
6 km
5 km
4 km
3 km
2 km




U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
DATA BLOCK C
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVE
DATE AND OBSERVATION
TUCSON, ARIZONA
1000
950
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
-125
30 km
29 km
28 km
27 km
26 km



U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

DATA BLOCK

Line	Pressure		Temperature		Relative Humidity		Dew Point	Wind Direction and Speed
	Observed	Mb.	Observed	Adiabat	Observed	Adiabat		
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

SURFACE OBSERVATION AT RELEASE

PRESSURE: Station | Correction | at Shelter | Contact: Ground | Instrument

For difference between Ground and Instrument Shelter

TEMPERATURE: Dry | Wet — RELATIVE HUMIDITY — WIND

CLOUDS AND WEATHER

BASELINE CHECK READINGS

PRESSURE

RELATIVE HUMIDITY

CODED MESSAGE FOR TRANSMISSION

REMARKS

LEGEND FOR CONSTANT PRESSURE BLOCKS

LEGEND FOR PLOTTED CURVES

Prepared by

Approved by

Interpreted by

DATE AND RELEASE TIME

1960 JUN 4

1960 JUN 4

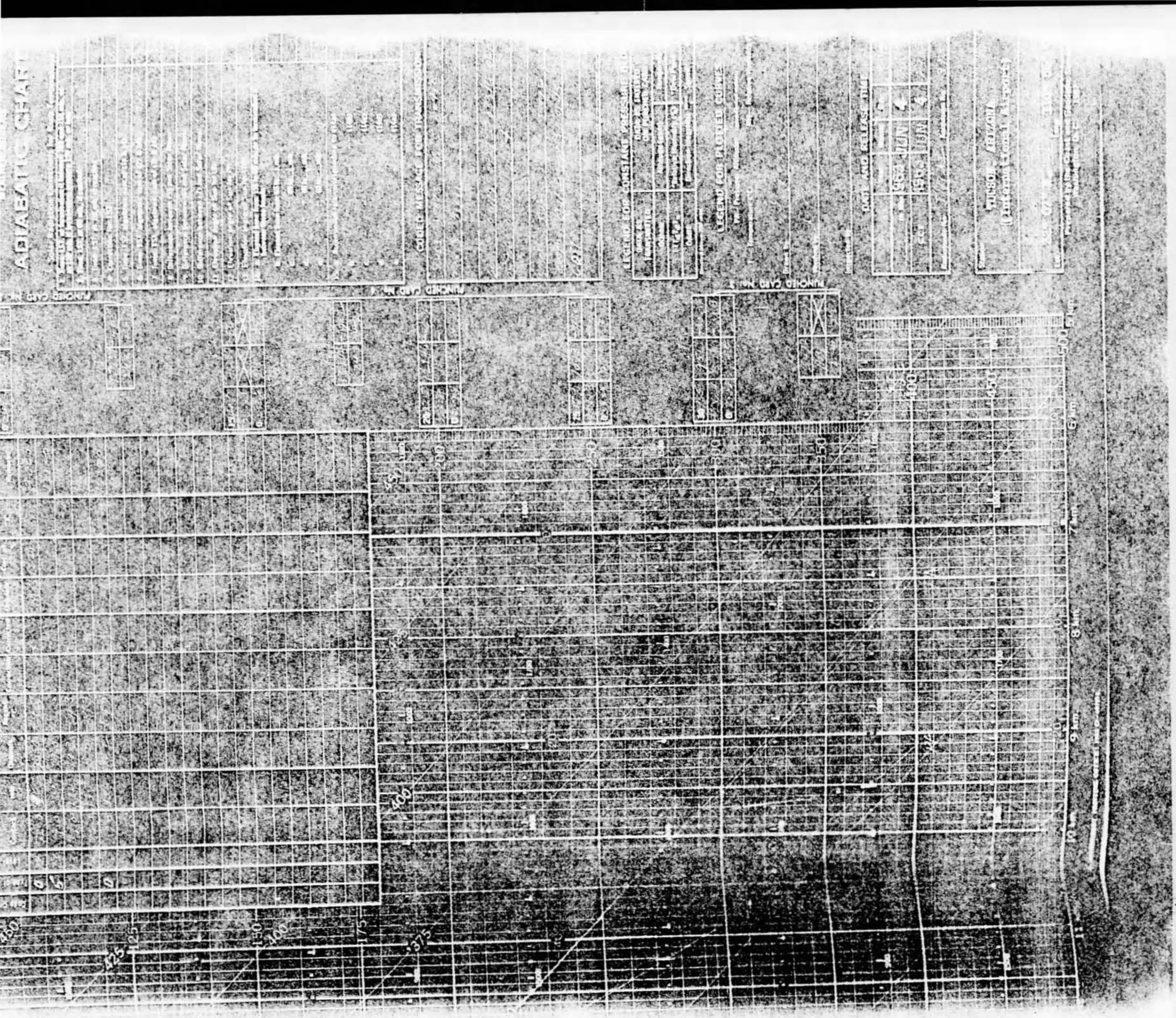
Washington D.C. 1967

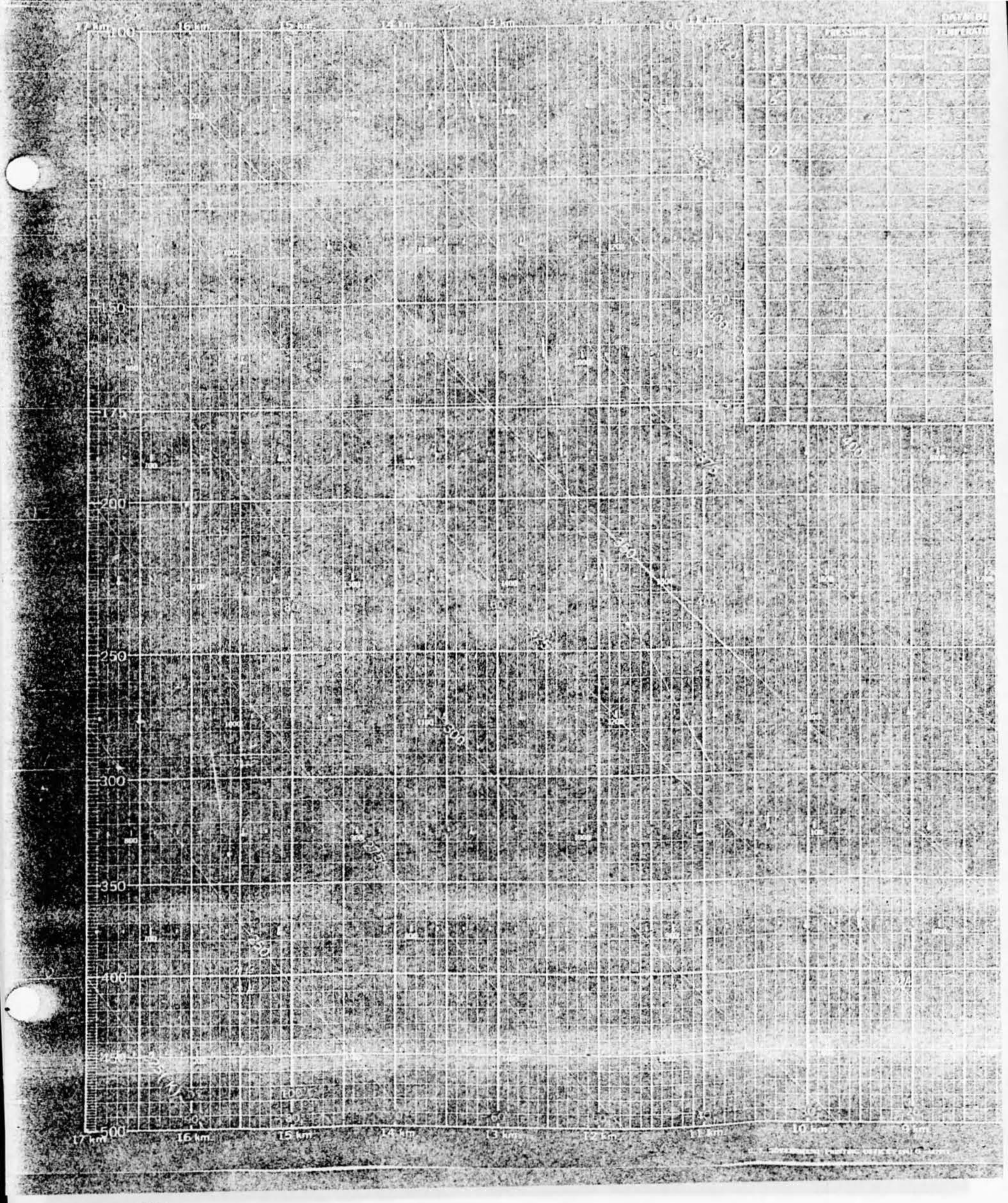
600 650 700 750 800 850 900 950 1000 1050

30 20 10 0 20 30 40

1 km 2 km MSL

This case includes eighteen (18) 14" x 10"
photocopied charts


ADIABATIC CHART
ANCHOR CAP 9M
ANCHOR CAP 9M
ANCHOR CAP 9M


17 km
16 km
15 km
14 km
13 km
12 km
11 km
10 km
100
150
200
250
300
350
400
500

U.S. DEPARTMENT OF COMMERCE

ADIABATIC CHART

DATA BLOCK AC

TEMPERATURE

PUNCHED CARD No. 1

PUNCHED CARD No. 2

REMARKS

LEGEND FOR CONSTANT PRESSURE BLOCKS

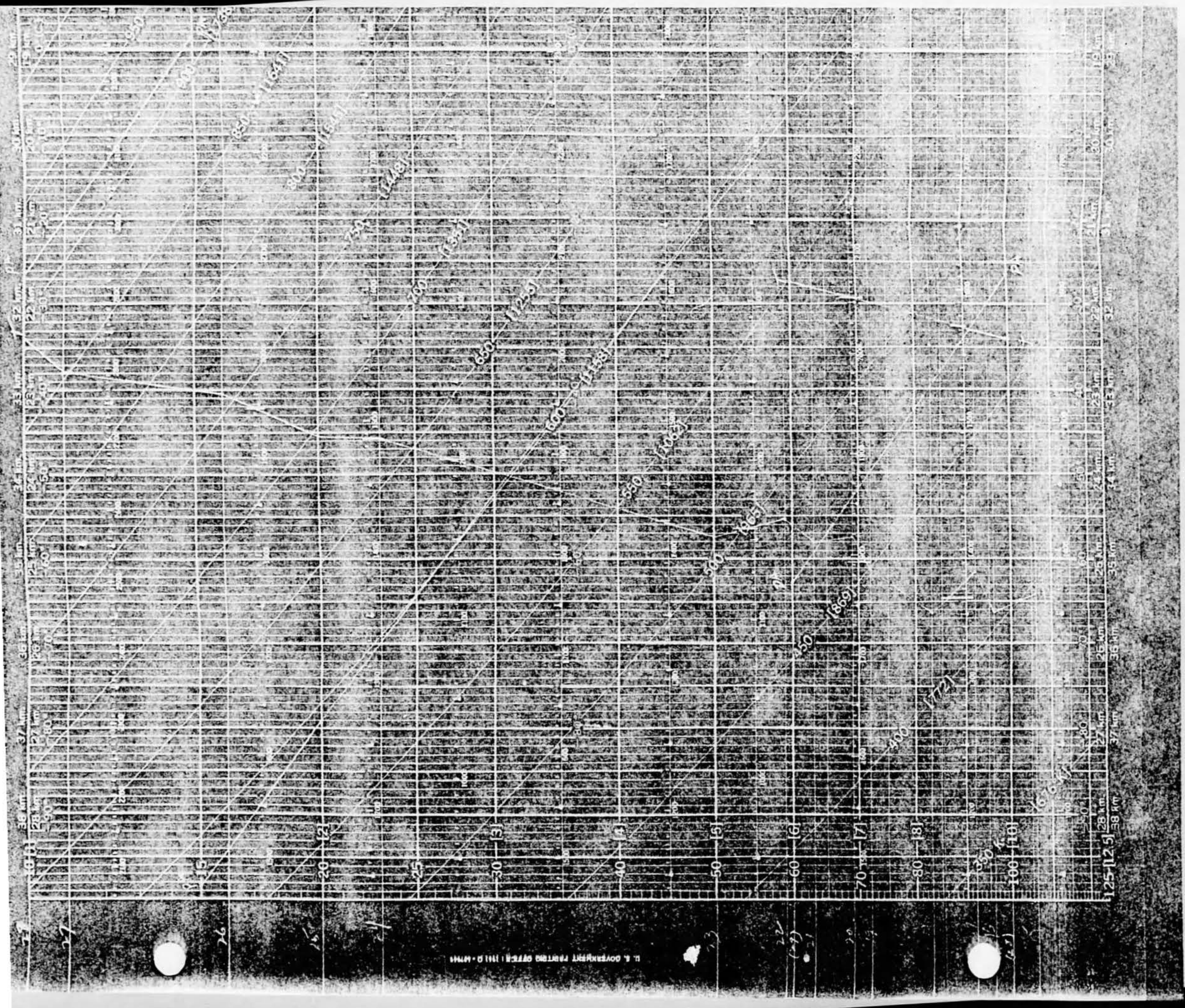
LEGEND FOR PLOTTED CURVE

DATE AND RELEASE TIME

TUCSON, ARIZONA

20 km. 19 km. 18 km. 27 km. 26 km.

30 km. 29 km. 28 km.



DATA BLOCK A

PRESSURE | TEMPERATURE | REL. HUM. | DEW POINT

SURFACE OBSERVATION AT RELEASE

PRESSURE | CONTACT

Station | Correction | Sea Level | Chart | Recorder record

Inches | MB | MB | MB

For difference in elevation between barometer and instrument shelter

TEMPERATURE | RELATIVE HUMIDITY | WIND

Dry | Wet | Wales | Direction degrees | Speed mph

CLOUDS AND WEATHER

CONSTANT PRESSURE BLOCK

U.S. DEPARTMENT OF COMMERCE

WEATHER BUREAU

ADIABATIC CHART

BASE LINE CHECK READINGS

TEMPERATURE

Dry | Wet

RELATIVE HUMIDITY

Observed | Basic

CODED MESSAGE FOR TRANSMISSION

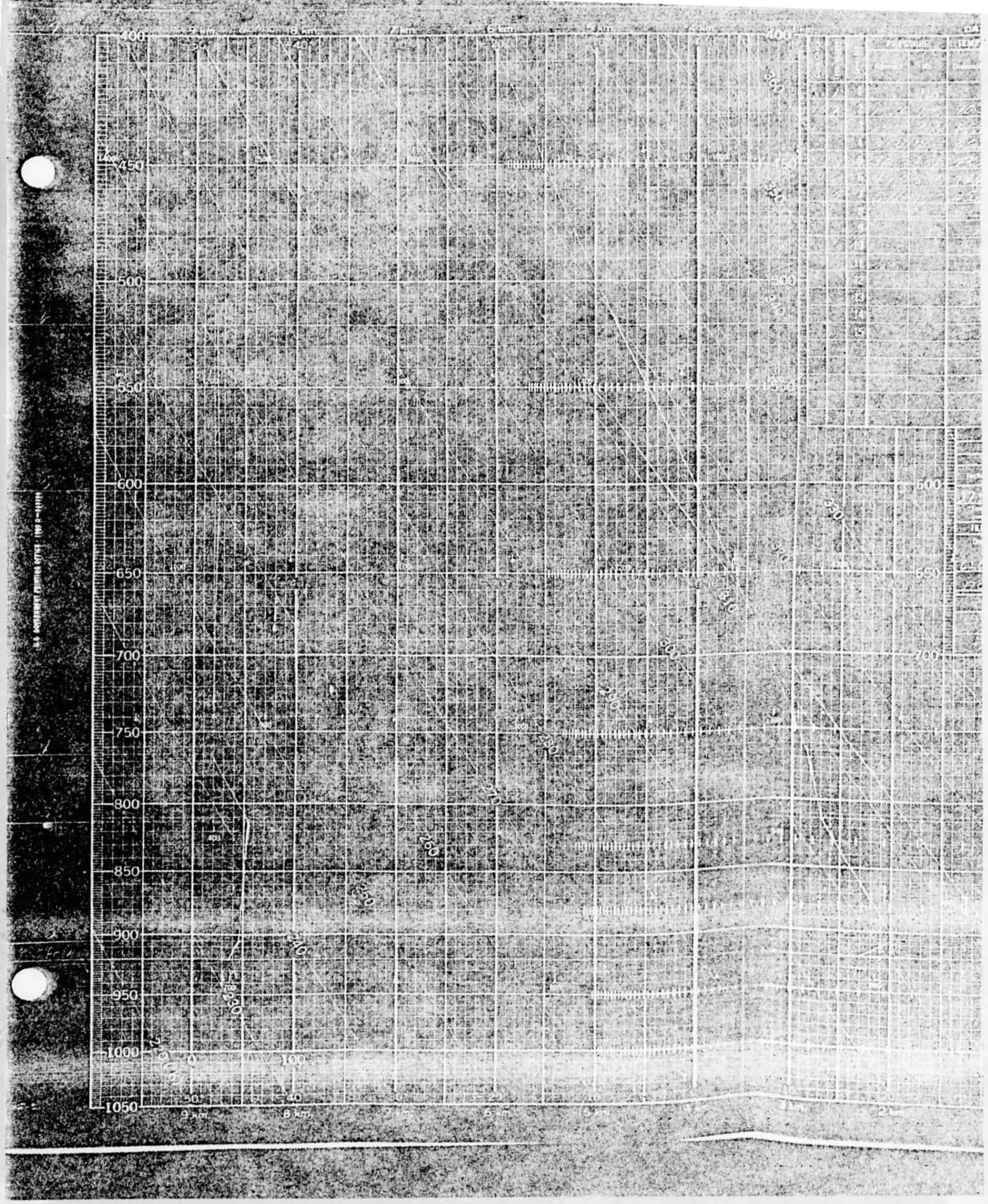
REMARKS

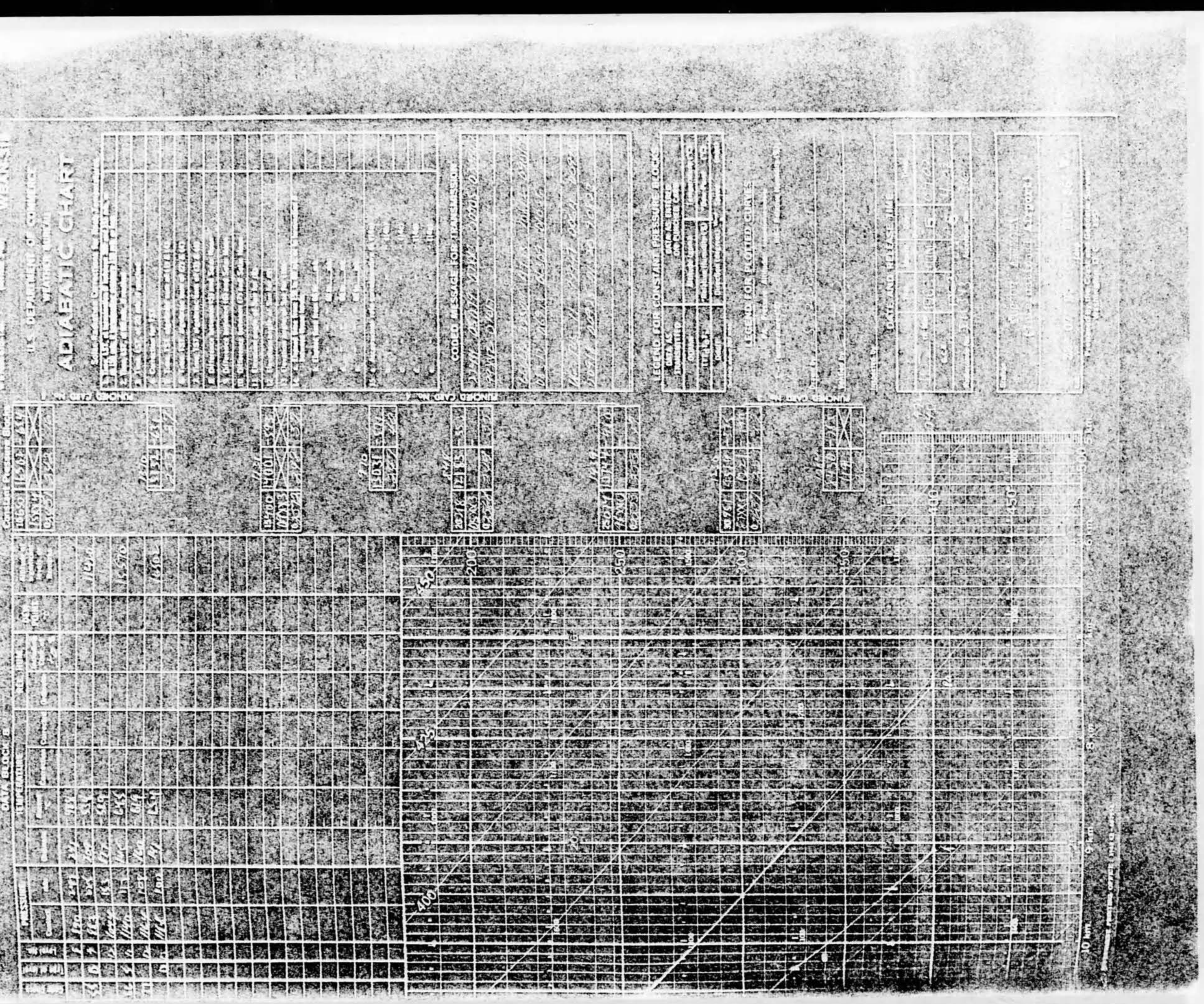
LEGEND FOR CONSTANT PRESSURE BLOCK

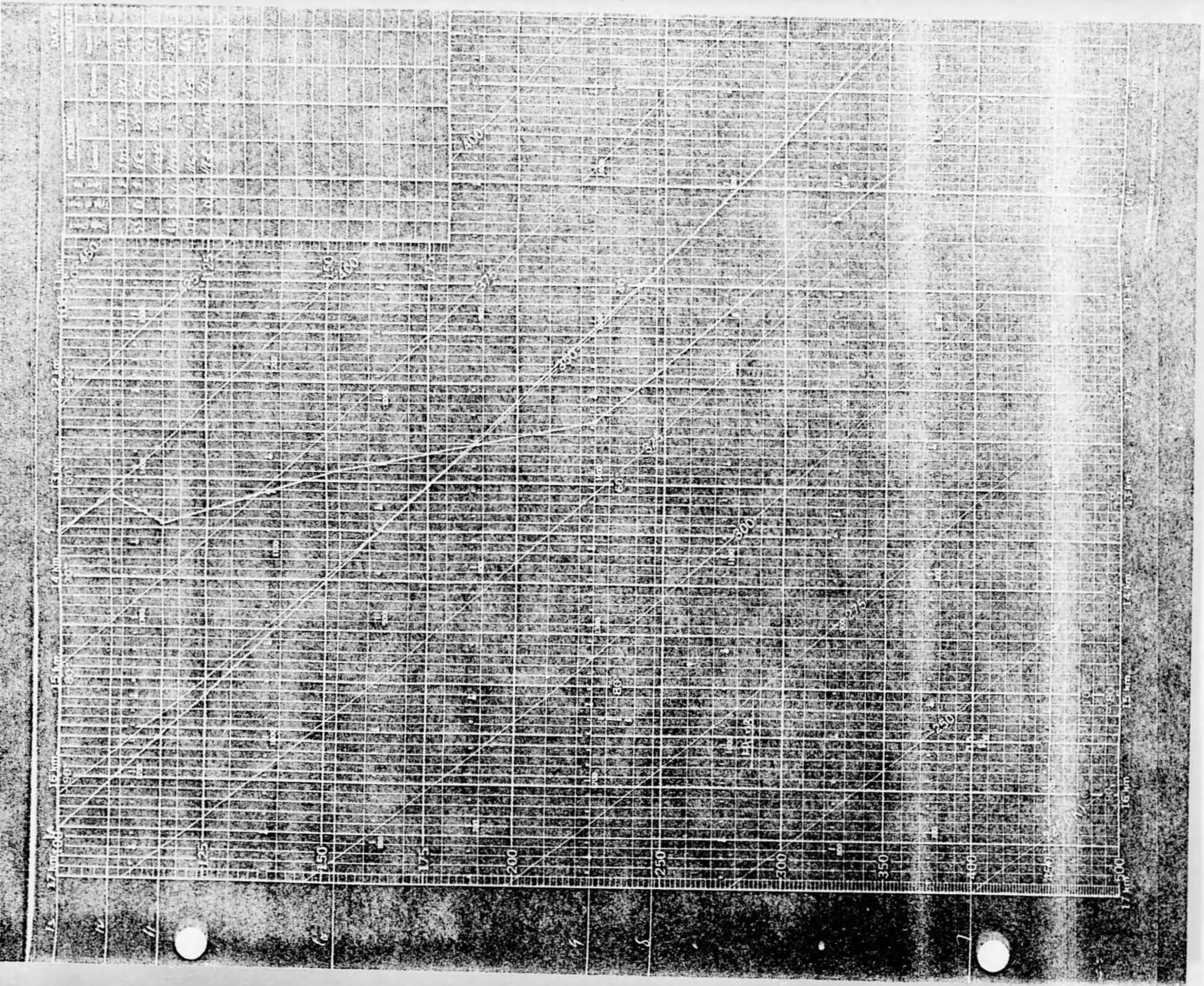
DATA TRANSMITTED | DATA AS ENTERED ON PUNCH CARD

LEGEND FOR PLOTTED CURVES

DATE AND HOUR OF FLIGHT


400
450
500
550
600
650
700
750
800
850
900
950
1000
1050
9 km
8 km
6 km
5 km
4 km
50
40
30
20
10
100
200
300
400
500
600
700
800
900
1000


APIARIC CHART



WBAN-51C

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

DATA BLOCK

PRESSURE

TEMPERATURE

DEW POINT

INCHES OF MERCURY

INCHES OF MERCURY

LEGEND FOR CONSTANT PRESSURE BLOCKS

LEGEND FOR ROAD TEMPERATURE

DATA BLOCK

RANGE

1050 (2027)

1000

(1931)

950

(1854)

900

(1781)

850

(1641)

800

(1545)

(1448)

INCHES OF MERCURY

INCHES OF MERCURY

10 25

12 20

13 30

14 40

15 50

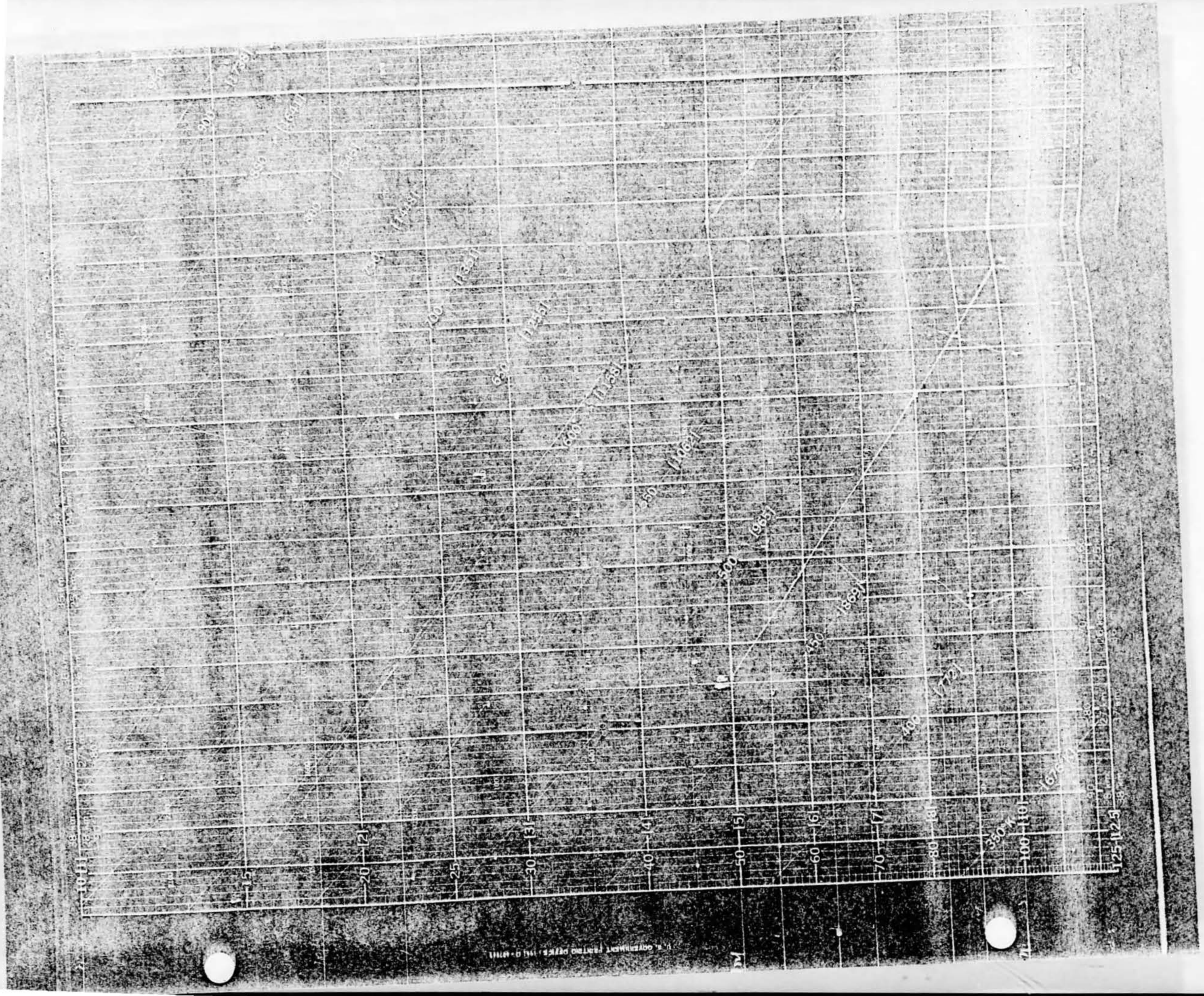
16 60

17 70

18 80

10 100

12 25 14



DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

INCOMING

PAGE TWO RUWHSQ 2

(2) DUSK. E/MESA, ARIZONA

F. MR. [redacted], AGE 52, [redacted] MESA ARIZONA.

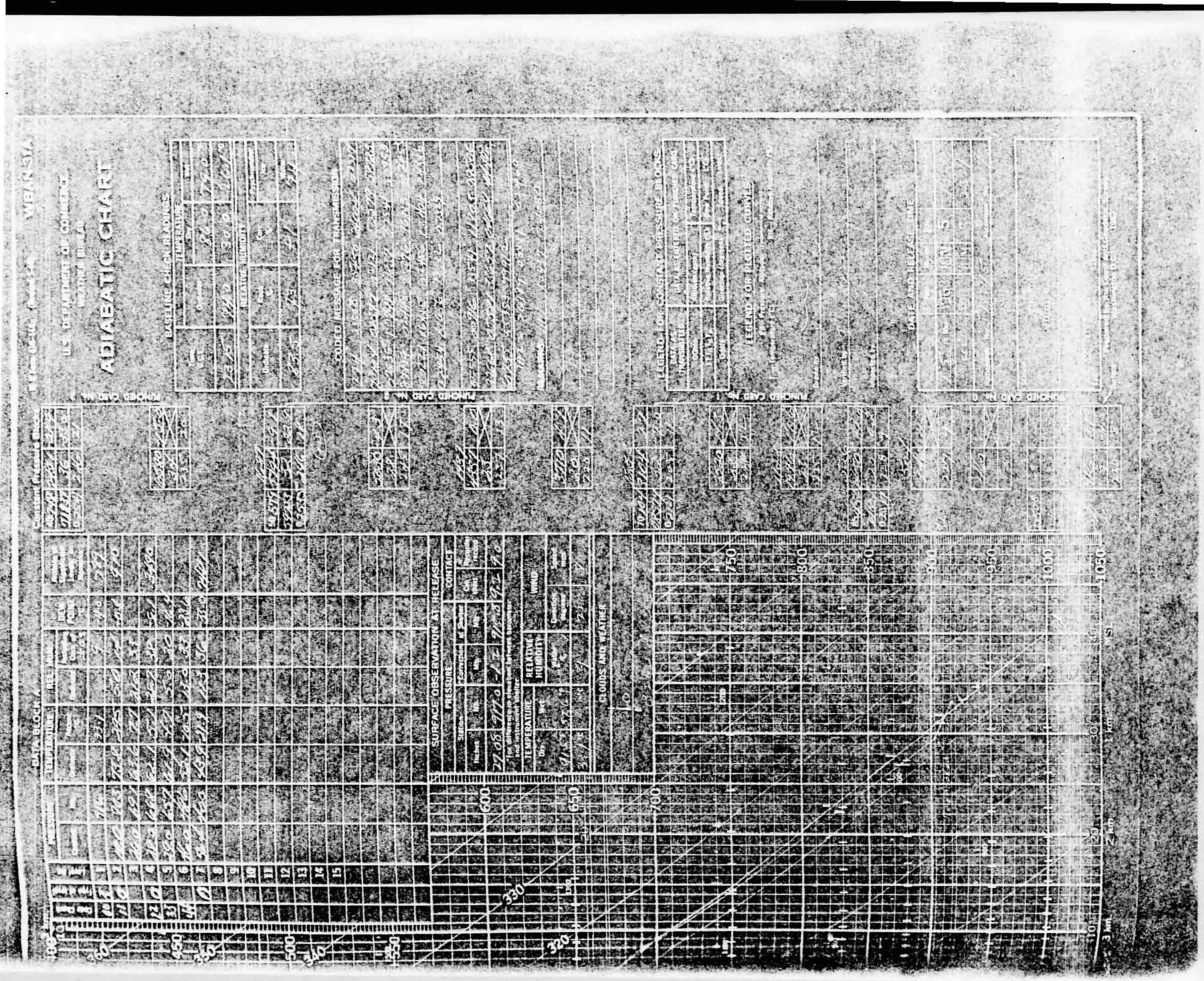
OWNER - "COST PLUS 10 MARKET" MESA, ARIZONA, VERY RELIABLE.

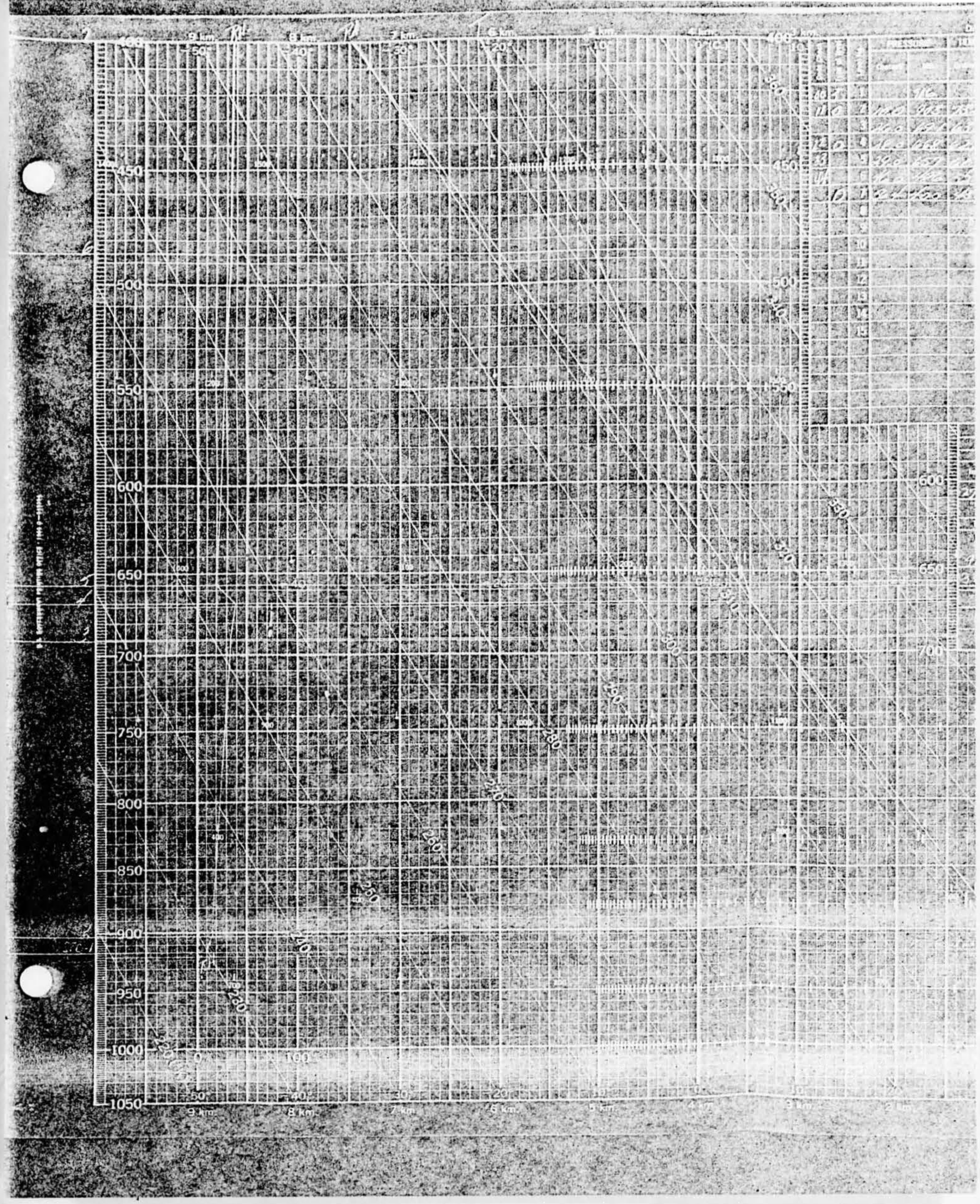
G(1) CLEAR WEATHER CONDITIONS, (2) SURFACE 240 DEGREES AT 7 KNOTS, 6,000 FEET 240 DEGREES AT 20 KNOTS; 10,000 FEET 210 DEGREES AT 15 KNOTS; 16,000 FEET 230 DEGREES AT 30 KNOTS; 20,000 FEET 240 DEGREES AT 30 KNOTS; 30,000 FEET 250 DEGREES AT 55 KNOTS; 50,000 FEET 240 DEGREES AT 25 KNOTS; 80,000 FEET UNKNOWN. (3) CLEAR (4) 25 MILES (5) NONE (6) NONE (7) ONE AND ONE HALF DEGREES PER 1,000 FEET. PARA 16. INVESTIGATION REVEALS THAT NO WEATHER BALLONS OR LIGHTER THAN AIR TYPE CRAFT WERE RELEASED OR OPERATING IN THIS AREA AT ABOVE TIME. LENTICULAR CLOUDS WERE OBSERVED IN THE AREA BUT WOULD NOT ACCOUNT FOR OBJECTS REPORTED MOVEMENT.

BT

11/0709Z JUNE RUWHSQ

NOTE : ADVANCE COPIES DELIVERED TO DIA AND NIN.


ADIABATIC CHART
U.S. DEPARTMENT OF COMMERCE
VIRGINIA
DATA BLOCK
SURFACE OBSERVATION AT RELEASE
PRESSURE
TEMPERATURE
RELATIVE HUMIDITY
CLOUDS AND WEATHER
WIND
CONTACT
BASELINE CHECKPOINTS
GUIDED MISSILE FOR TRAINING
LEGEND FOR CONTROLLED STORE LOCKS
LEGEND OF PLOTTED CURVE
DATE AND TIME
STATION
ELEVATION
Pressure
Temperature
Dew Point
Wind
Clouds
Weather
Visibility
Ceiling
Sky Cover
Obstructions to Vision
Relative Humidity
Wet Bulb
Dry Bulb
Contact
Release
Time
Altitude
Pressure
Temperature
Dew Point
Wind
Clouds
Weather
Visibility
Ceiling
Sky Cover
Obstructions to Vision
Relative Humidity
Wet Bulb
Dry Bulb
Contact
Release
Time
Altitude
Pressure
Temperature
Dew Point
Wind
Clouds
Weather
Visibility
Ceiling
Sky Cover
Obstructions to Vision
Relative Humidity
Wet Bulb
Dry Bulb
Contact
Release
Time
Altitude
Pressure
Temperature
Dew Point
Wind
Clouds
Weather
Visibility
Ceiling
Sky Cover
Obstructions to Vision
Relative Humidity
Wet Bulb
Dry Bulb
Contact
Release
Time
Altitude
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
80 70 60 50 40 30 20 10 0
500 550 600 650 700 750 800 850 900 950 1000 1050
330 320 310
1 km
2 km
3 km


9 km
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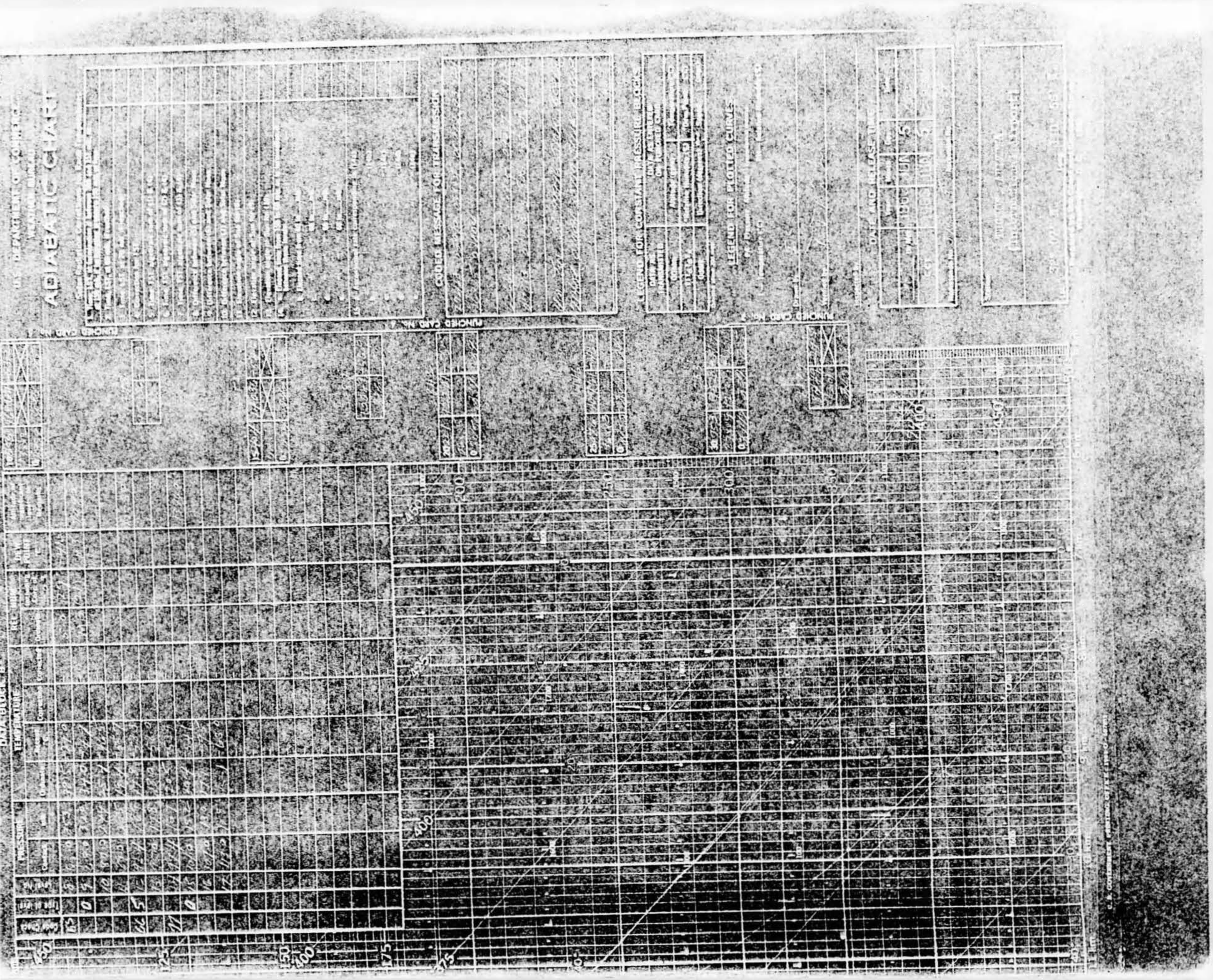
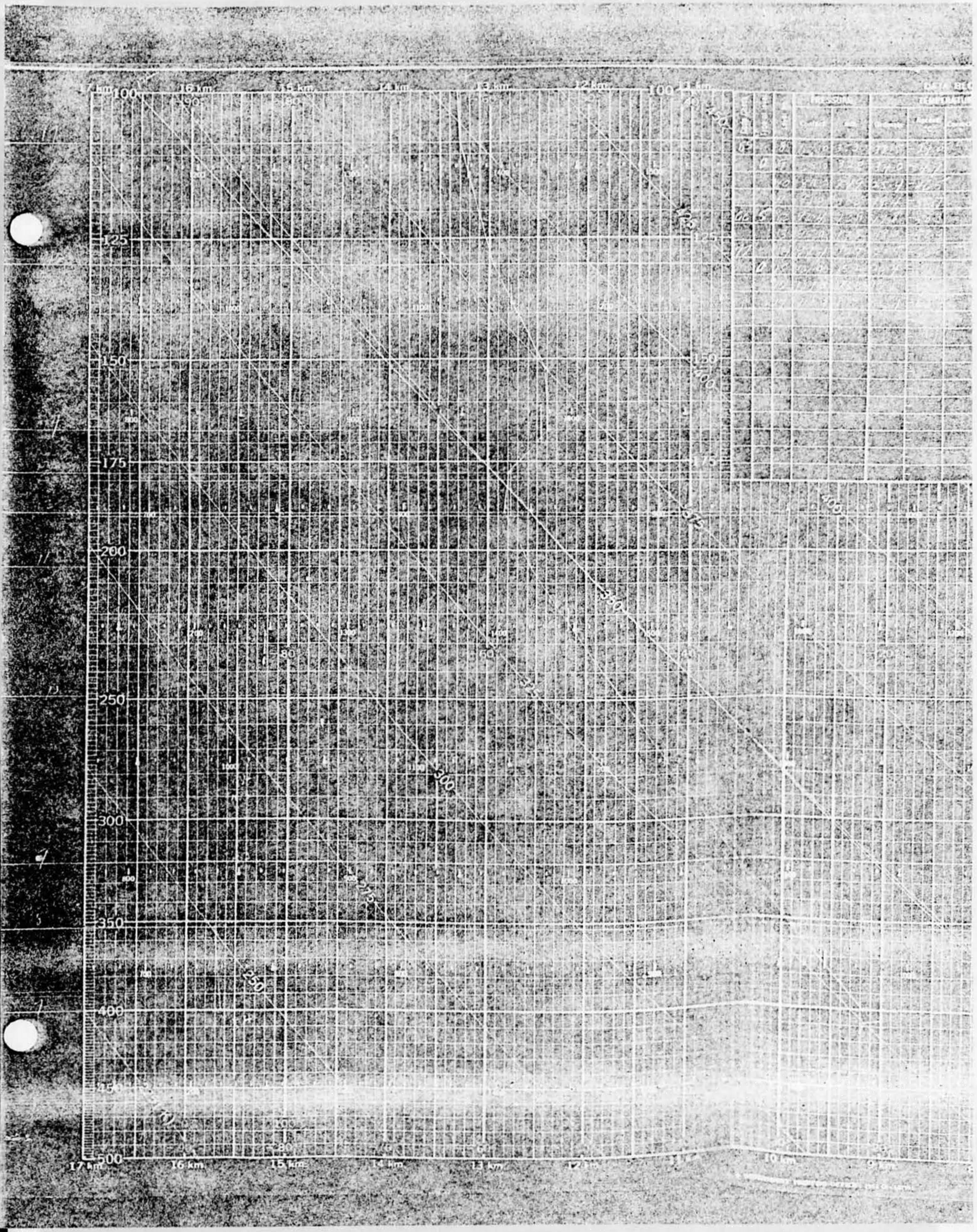
1050


ADJACENT CHART
INDEX TO ADJACENT CHARTS
INDEX TO ADJACENT CHARTS
CODED BEACONS FOR TRANSITS
LEGEND FOR CONTINUATION OF CONTOURS
LEGEND FOR FLOOD LINES
DATA BLOCK
TEMPERATURE
PRESSURE
Cable Area
Pipe Line
Cable Area
Pipe Line
Cable Area
Pipe Line


17 km
16 km
15 km
14 km
13 km
12 km
10 km
100
125
150
175
200
250
300
350
400
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500
90
80
70
60
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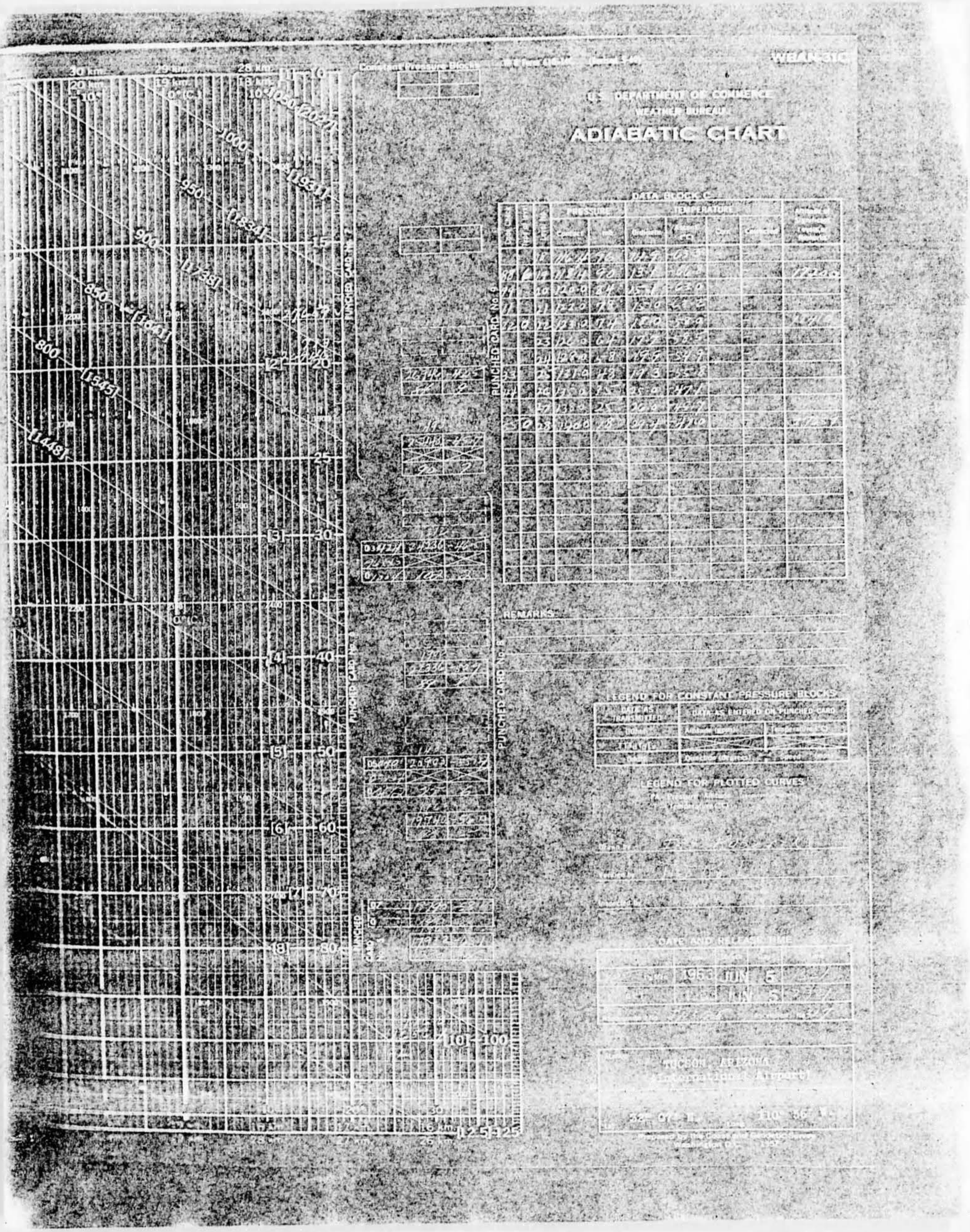
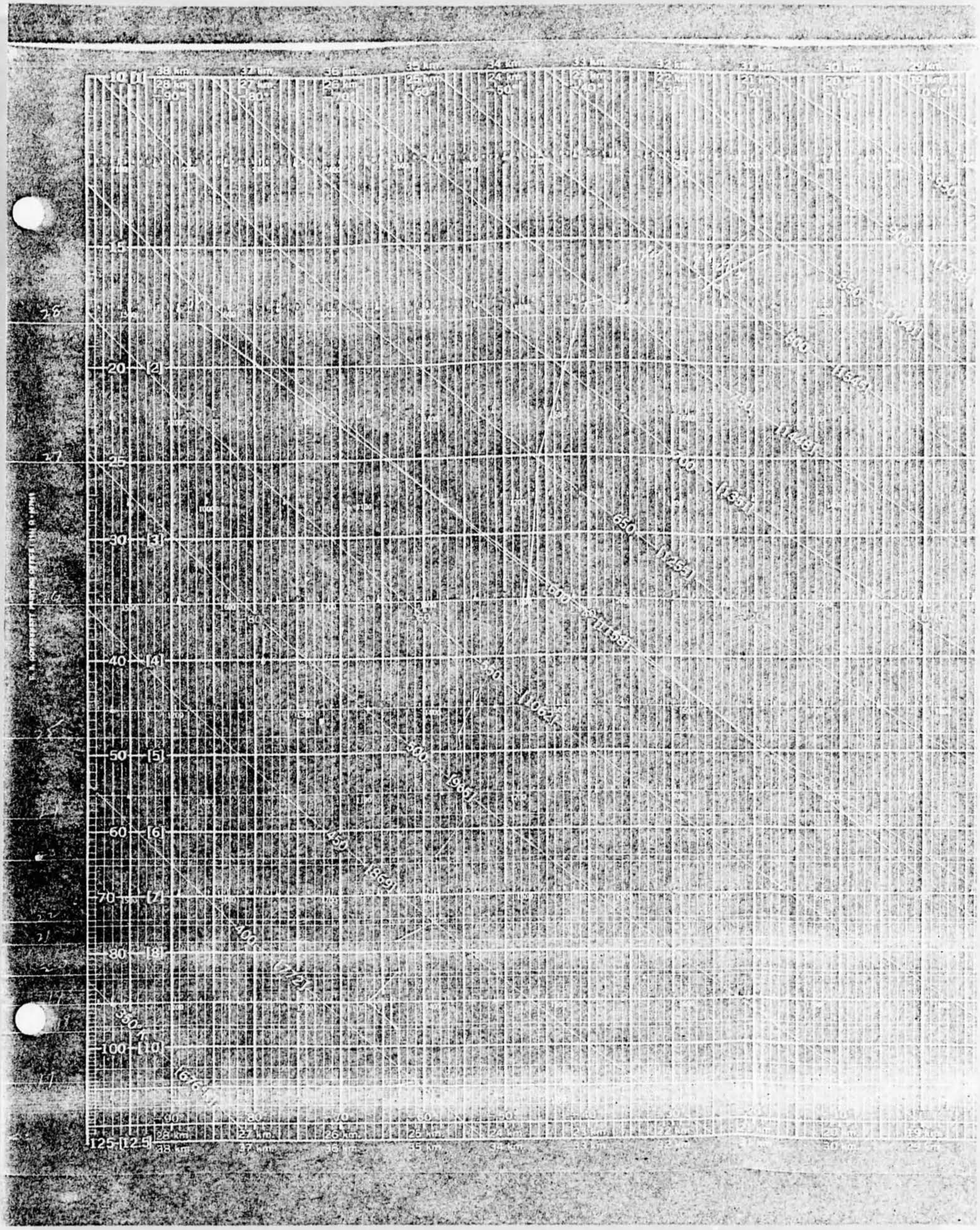
40
30
20
10
0
1000
900
800
700
600
500
400
300
200
100


WBAN-51C
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
DATA BLOCKS
PRESSURE
TEMPERATURE
REMARKS
PUNCHED CARD No. 6
PUNCHED CARD
LEGEND FOR CONSTANT PRESSURE BLOCKS
DATA AS RECEIVED
DATA AS ENTERED ON PUNCHED CARD
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
JUN 5
JUN 5
TUCSON, ARIZONA
30 mm
20 mm
10
0°C
10
20
1000
950
900
850
800
1393
1534
1538
1545
1448
12
20
24
25
30
36
40
41
50
51
60
61
70
71
80
81
100
101
5
6
8
25



DATA BLOCK A

PRESSURE | TEMPERATURE | REL. HUM. | DEW POINT | Antilogarithm of Vapor Pressure

Constant Pressure Block

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

BASELINE CHECK-READINGS

TEMPERATURE

RELATIVE HUMIDITY

CODED MESSAGE FOR TRANSMISSION

PUNCHED CARD NO. 2

REMARKS

SURFACE OBSERVATION AT RELEASE

PRESSURE | CONTACT

Station: Inches | Mb. | Correction to Sea Level: Mb. | Correction to Shelter: Mb. | Calc. from | Recorder record

For difference in elevation between barometer and instrument shelter

TEMPERATURE: Dry | Wet | RELATIVE HUMIDITY: Water | WIND: Direct Degrees | Speed mph

CLOUDS AND WEATHER

LEGEND FOR CONSTANT PRESSURE BLOCKS

DATA AS TRANSMITTED	DATA AS ENTERED ON PUNCHED CARD	

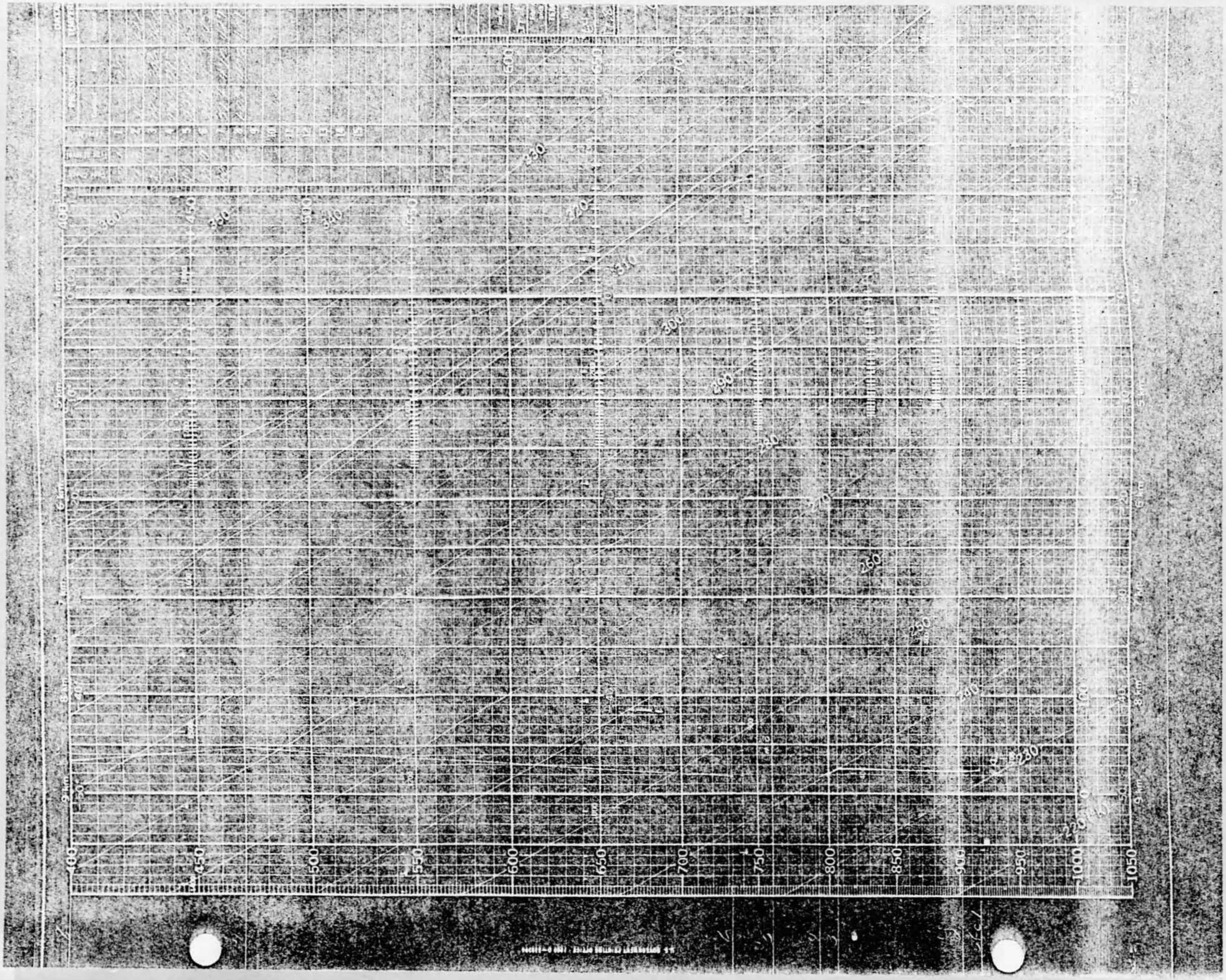
LEGEND FOR PLOTTED CURVES

DATE AND HOUR OF RELEASE

GMT JUN 6

LOC JUN 6

3 km. 2 km. 1 km. MSL



DATA BLOCK B

WBAN 31

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

CODED MESSAGE FOR TRANSMISSION

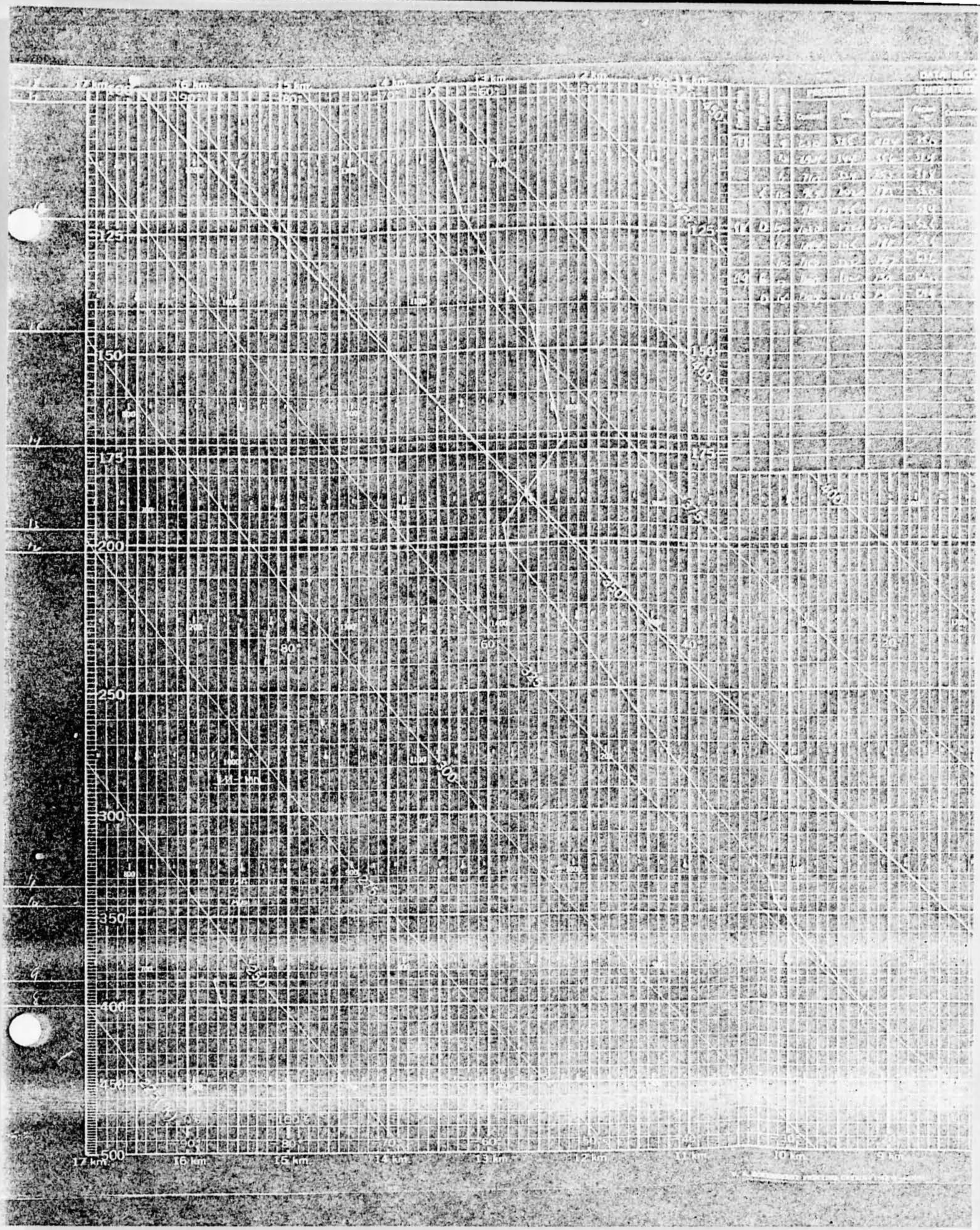
LEGEND FOR CONSTANT PRESSURE BLOCKS

LEGEND FOR PLOTTED CURVES

DATE AND RELEASE TIME

11 km. 10 km. 9 km. 8 km.

U. S. GOVERNMENT PRINTING OFFICE: 1968 O - 307-765


125
150
175
200
250
300
350
400
450
500
17 km
16 km
15 km
14 km
13 km
12 km
11 km
10 km
9 km
80
60
40
20

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

I N C O M I N G

AF IN : 53868 (11 Jun 63) C/ho

ACTION: NIN-9

INFO : XOP-1, XOPX-4, SAF-OS-3, DIA-25, DIA-CIIC-2 (45)

SMB C078

CZCHQE298ZCQJB157

MM RUEAHQ

DE RUWHSQ 2

ZNR

M 101745Z

FM WILLIAMS AFB ARIZ

TO RUWGALB/ADC ENT AFB COLORADO

RUWHSB/28 AIR DIV HAMILTON AFB CALIF

RUCDSQ/AFSC FOREIGN TECHNOLOGY DIV WPAFB OHIO

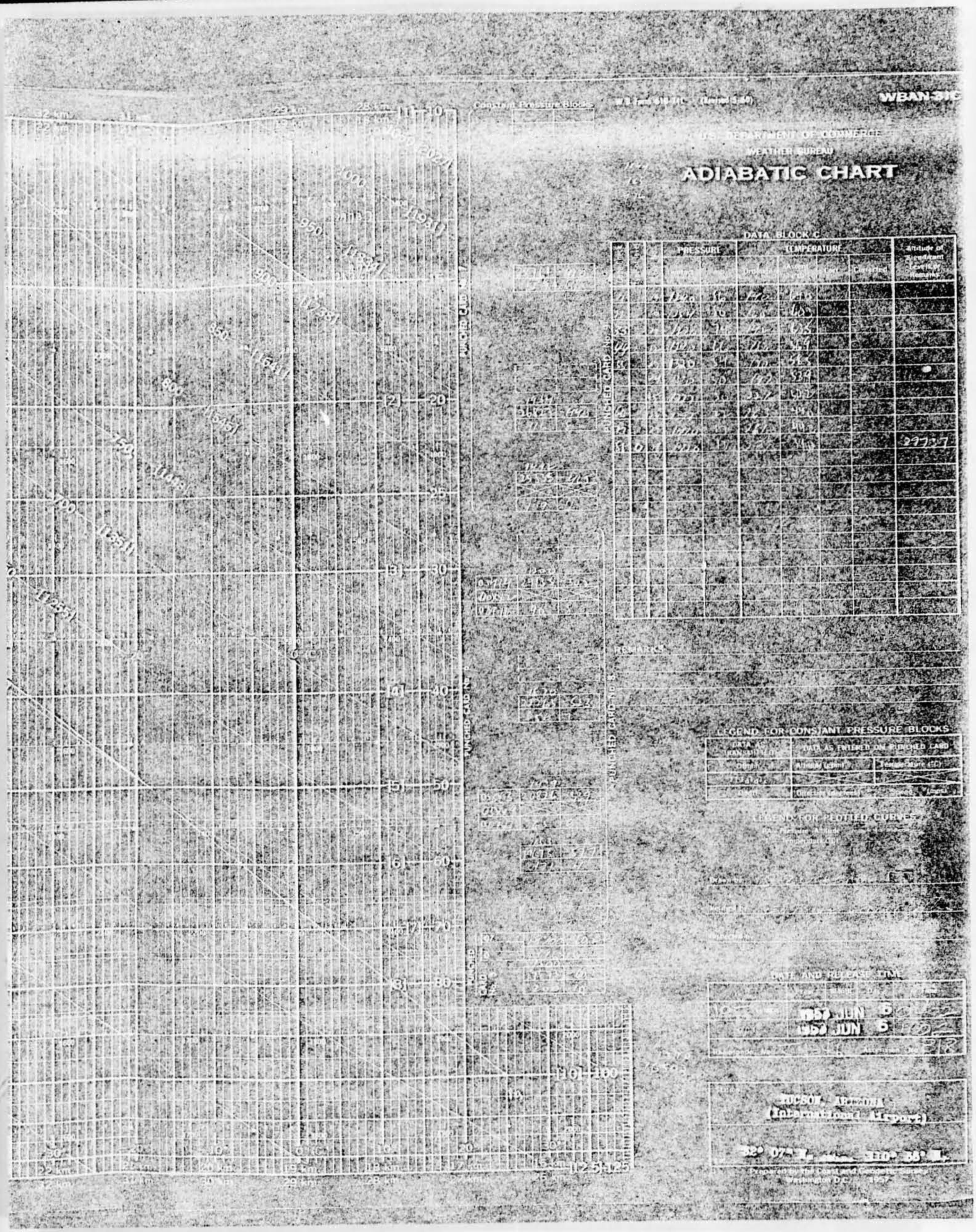
RUEAHQ/HQ USAF (AFCIN) WASH DC

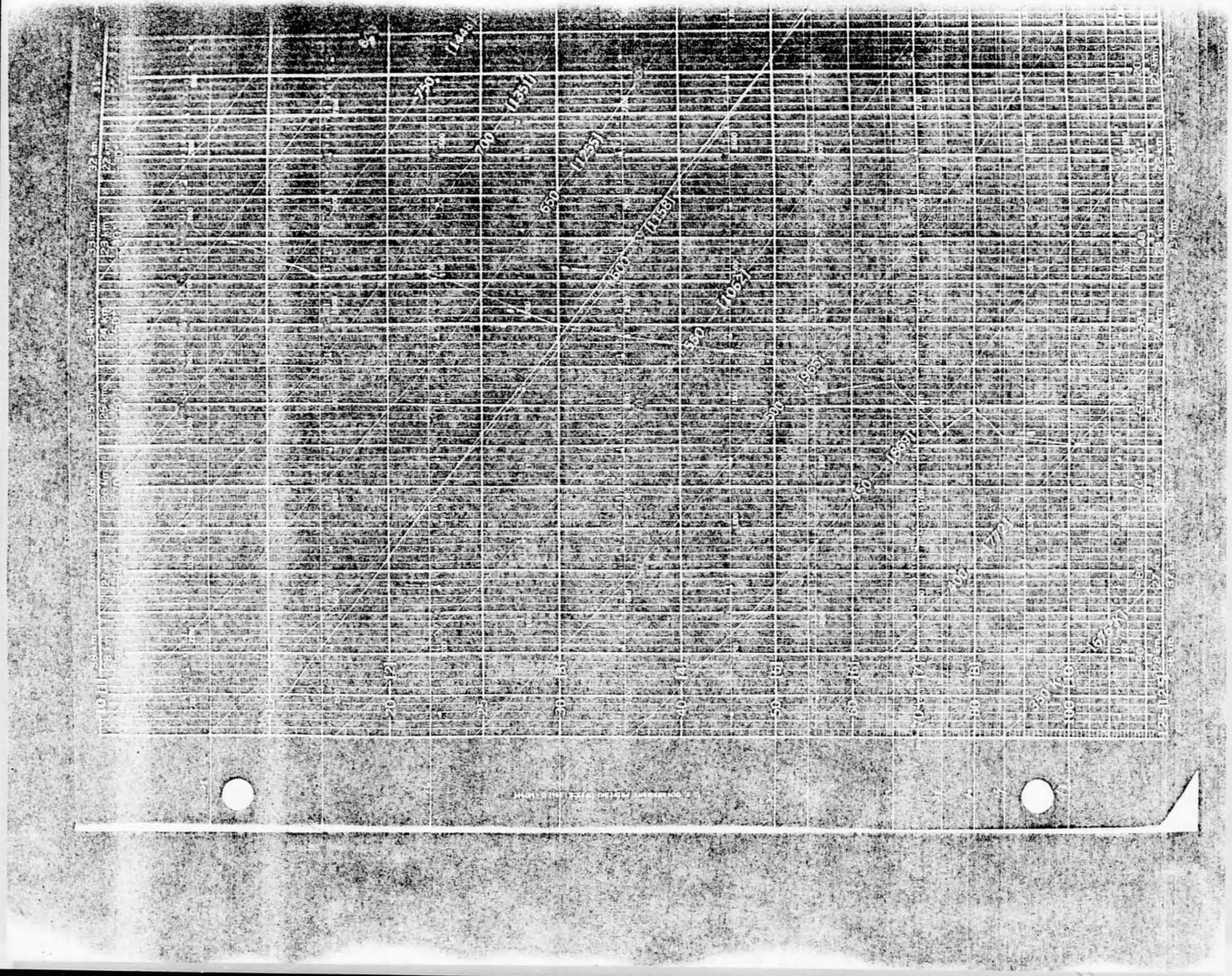
RUEAHQ/SECRETARY OF THE AIR FORCE (SAFOI) WASH DC

BT

UNCLAS PT-OTA 2639.

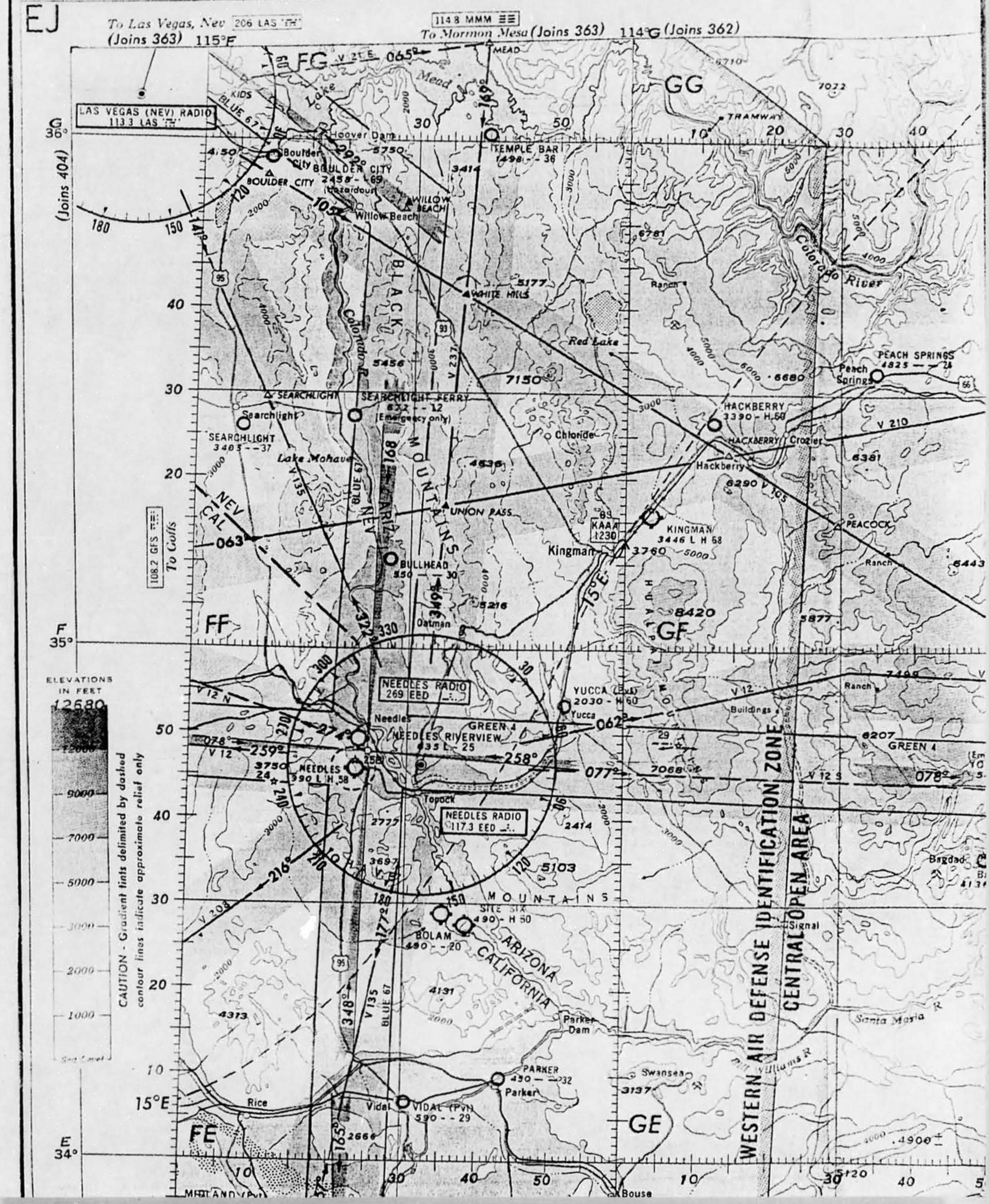
UFO THE FOLLOWING INFORMATION IS SUBMITTED IN ACCORDANCE WITH AFR 200-2. PARA 14A(1) CIGAR SHAPED: (2) ELONGATED SILVER DOLLAR: (3) BROWN - EXCEPT PROPELLER SILVER: (4) ONE (5) NEGATIVE (6) PROPELLER BISECTED BODY IN CENTER WITH BODY AS HUB. (7) NONE (8) NOT CERTAIN (9) SAME AS NR. 6. B (1) CHANCE (2) 45 DEGREES (3) 15 DEGREES (4) FLOATING OR GLIDING NM STRAIGHT PATH (5) GRADUALLY TO SOUTHWEST (6) 25 MINUTES. C (1) GROUND VISUAL (2) BINOCULAR - BRITISH GOVERNMENT SURPLUS BROUGHT OBJECT CLOSER BUT DID NOT INCREASE SIZE (3) N/A. D (1) 0635Z, 5 JUNE 1963


WBAN-310
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
DATA BLOCK C
PRESSURE
TEMPERATURE
Dry-Bulb
Wet-Bulb
Dew Point
Altitude of Standard Level or Station
Constant Pressure Blocks
PUNCHED CARD NO. 1
PUNCHED CARD NO. 2
PUNCHED CARD NO. 3
LEGEND FOR CONSTANT PRESSURE BLOCKS
DATA AS ENTERED ON PUNCHED CARD
DATA AS PUNCHED
Altitude (Geopot.)
LEGEND FOR PLOTTED CURVES
Pressure Altitude
Temperature (°C)
DATE AND RELEASE TIME
1957 JUN 5
1957 JUN 6
TUCSON, ARIZONA
(International Airport)
32° 07' N
110° 55' W
Prepared by Aerology Branch
Washington DC
1957


750 (1448)
700 (1351)
650 (1255)
600 (1158)
550 (1062)
500 (965)
450 (869)

(405) GILA RIVER

ELEVATIONS



15°E
113H (Joins 362)
112°J
HG
JG
HF
JF
HE
JE
36°
35°
34°
Grand Canyon
Colorado R.
Tusayan
GRAND CANYON
5362 - - 60
Colorado River
COCONINO
PLATEAU
Ranch
Williams
6700 L - 55
VALLE
6001 L - 57
Valle
VALLE
115.2 VLE
No voice
Quivero
PEACH SPRINGS
4825 - - 24
Peach Springs
6680
245°
V 210
Pica
Crozier
6381
7446
SELIGMAN (Pvt)
5300 - - 54
Seligman
Crookton
7250
142°
PEACOCK
Ranch
6443
5877
Ashfork
9256
To be comm
DRAKE
113.1 DRK
No voice
6080±
Brake
Perkinsville
6038
Del Rio
Chino Valley
5756
PRESCOTT RADIO
347 PRC
PRESCOTT RADIO
114.1 PRG
PRESCOTT
5042 L - 76
7626
6177
Prescott
Dewey
Smelter
Mayer
7973
6400
CORDES
3810 - - 16
Dugas
Verde Hot Springs
6821
Bumble Bee
Rock Springs
ROCK SPRINGS
Castle Hot Springs
RANCHO CABALLEROS
2510 - - 26
Wickenburg
Congress
Congress Junction
6397
Yarnell
Hillside
Kirkland
6583
Yava
Signal
Santa Maria
Bagdad
BAGDAD
6136 - - 28
6207
GREEN 4
V 12
078°
258°
259°
288°
SANTA MARIA
(Emergency only)
YOLO RANCH
5400 - - 30
6281
7400
Ranch
Ranch
Ranch

are revised at
h periods.

cities through-
y, Washington

on Center are
cation Publica-
ions of charts
ining to charts

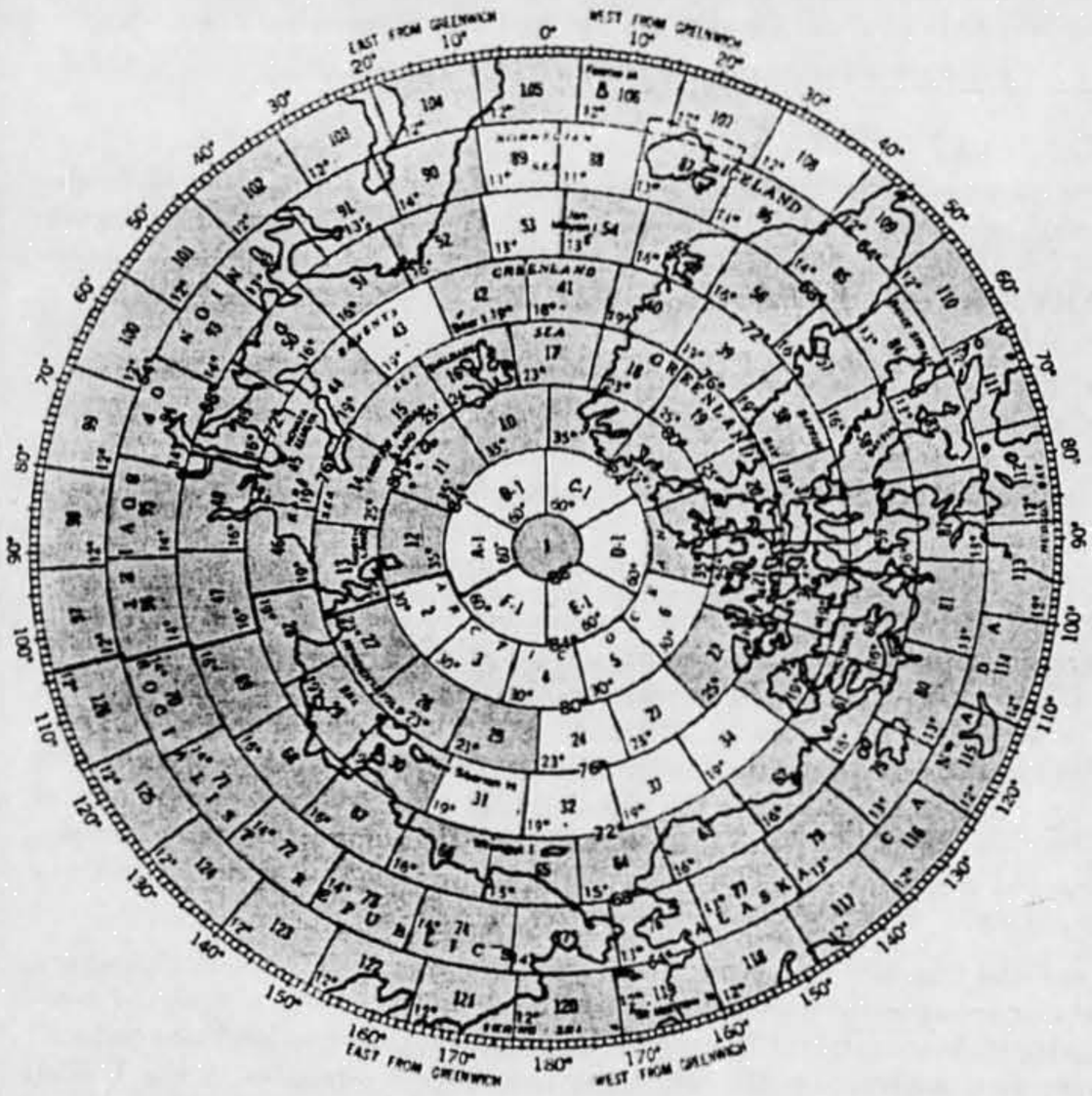
riate Aeronau-
directives.
nding Officer,
ution Division.
is urgent, wire
ndorsement, of
f the appropri-
thirty (30) day

ecific missions,
types of aero-
n Publications"
in the United
F Aeronautical
tified in requi-
scription of the

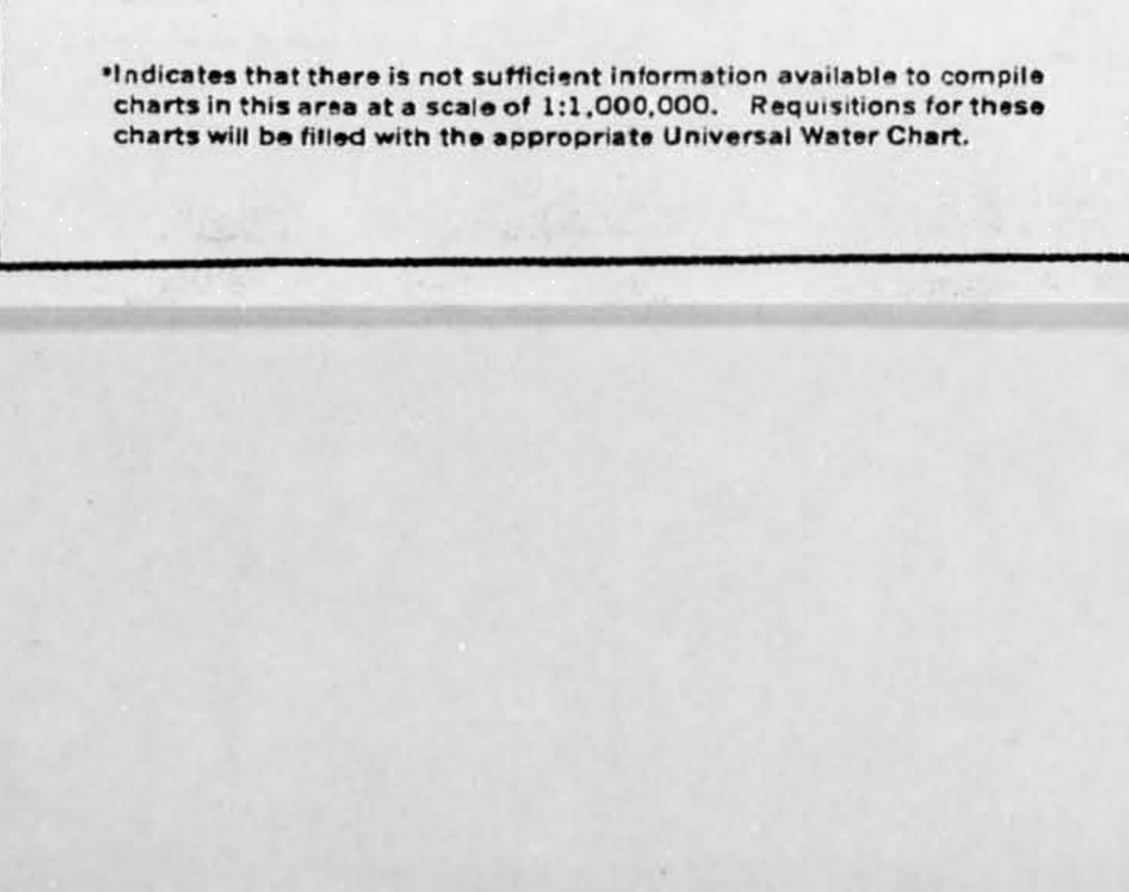
galvaged if not
s of AFR 67-3.

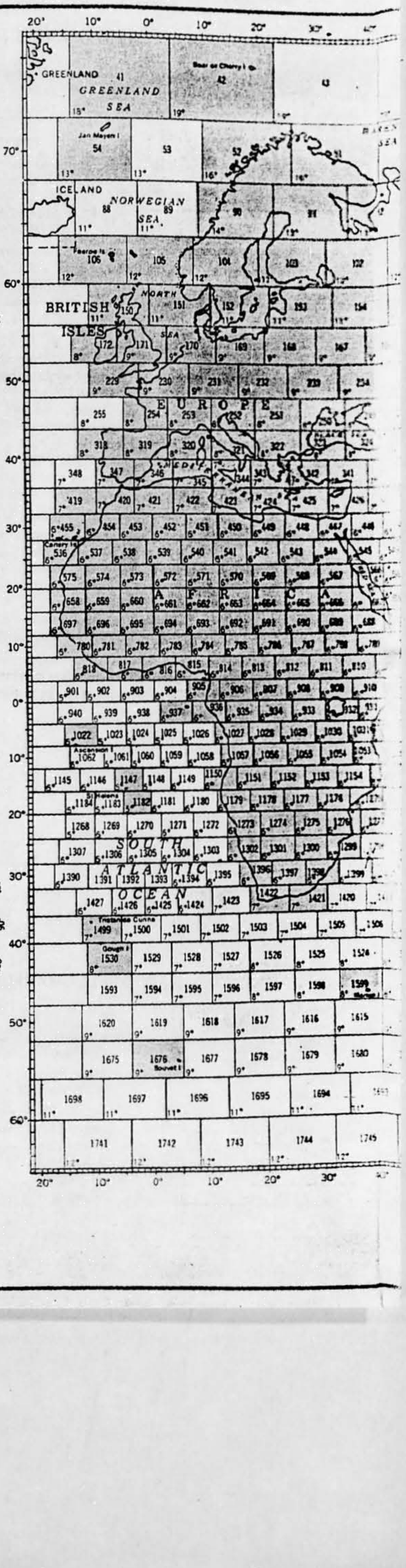
5-1-56

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.

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.

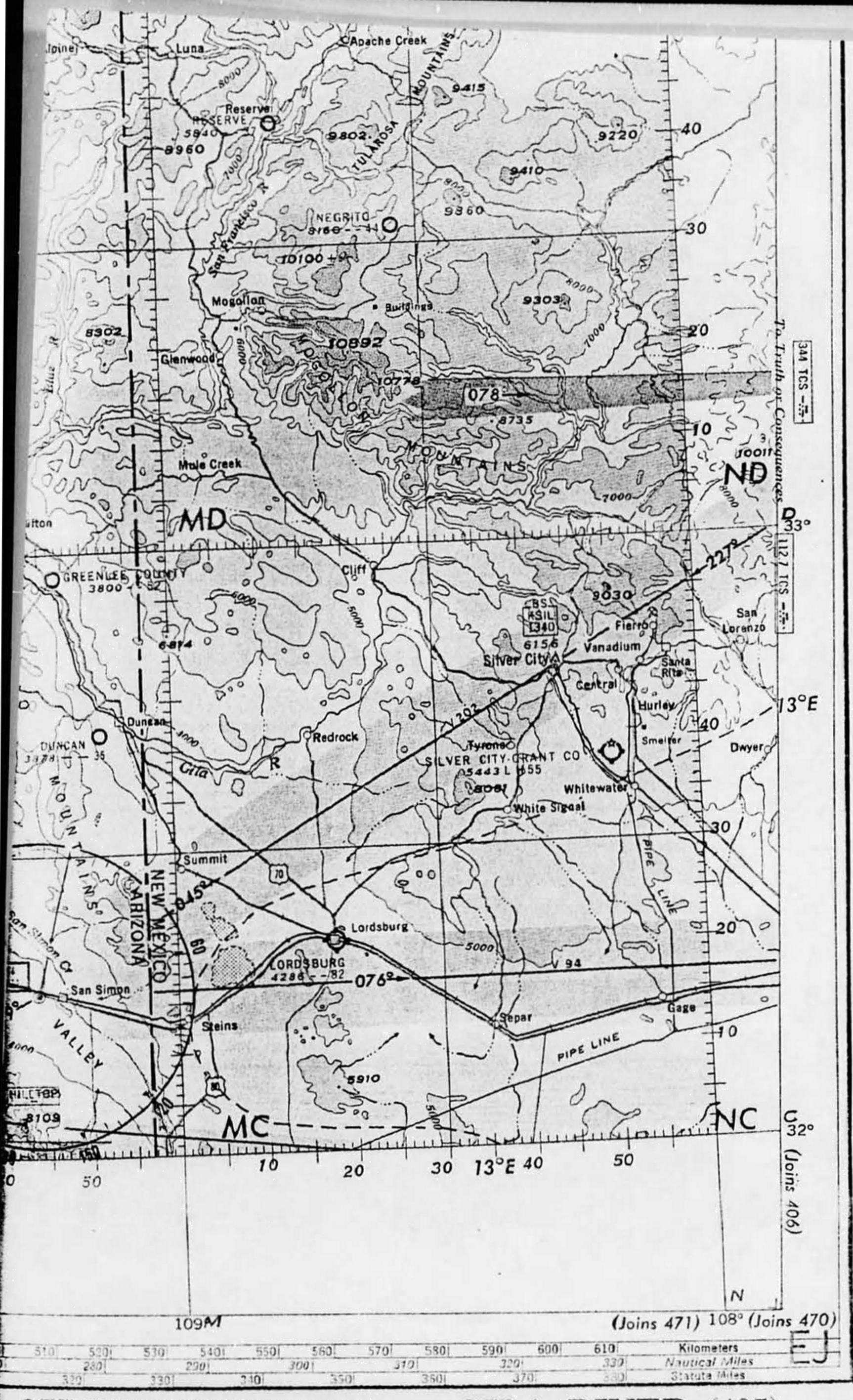
RADIOTELEGRAPH CODE AND PHONETIC ALPHABET

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



27TH EDITION Aeronautical information on this chart includes data received through March 4, 1958

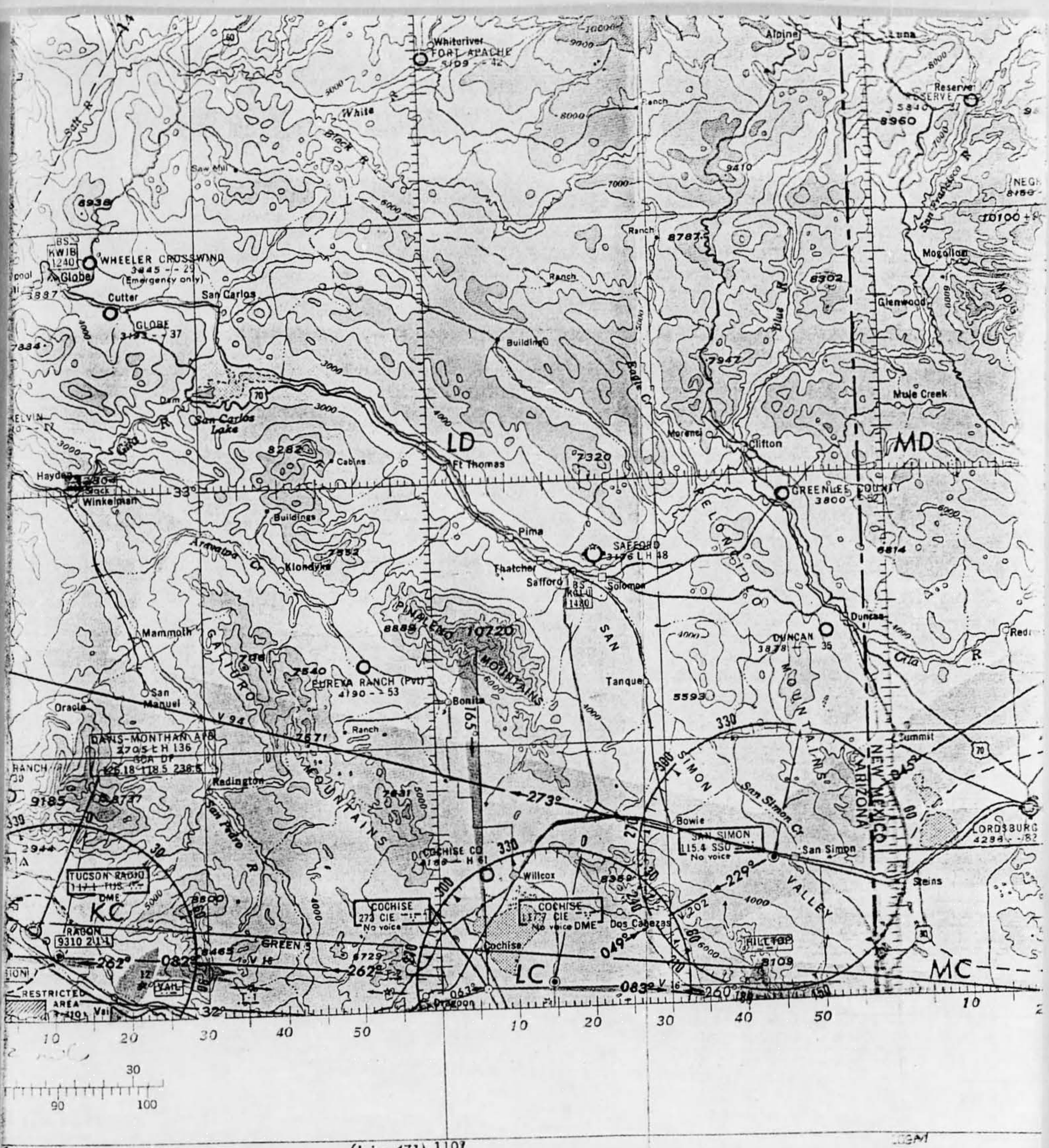
Consult appropriate NOTAMS and Radio Facility Charts for supplemental data and current information.

Next edition is scheduled in approximately six months.

GILA RIVER (405)

UNITED STATES - MEXICO

U.S. AIR FORCE EDITION

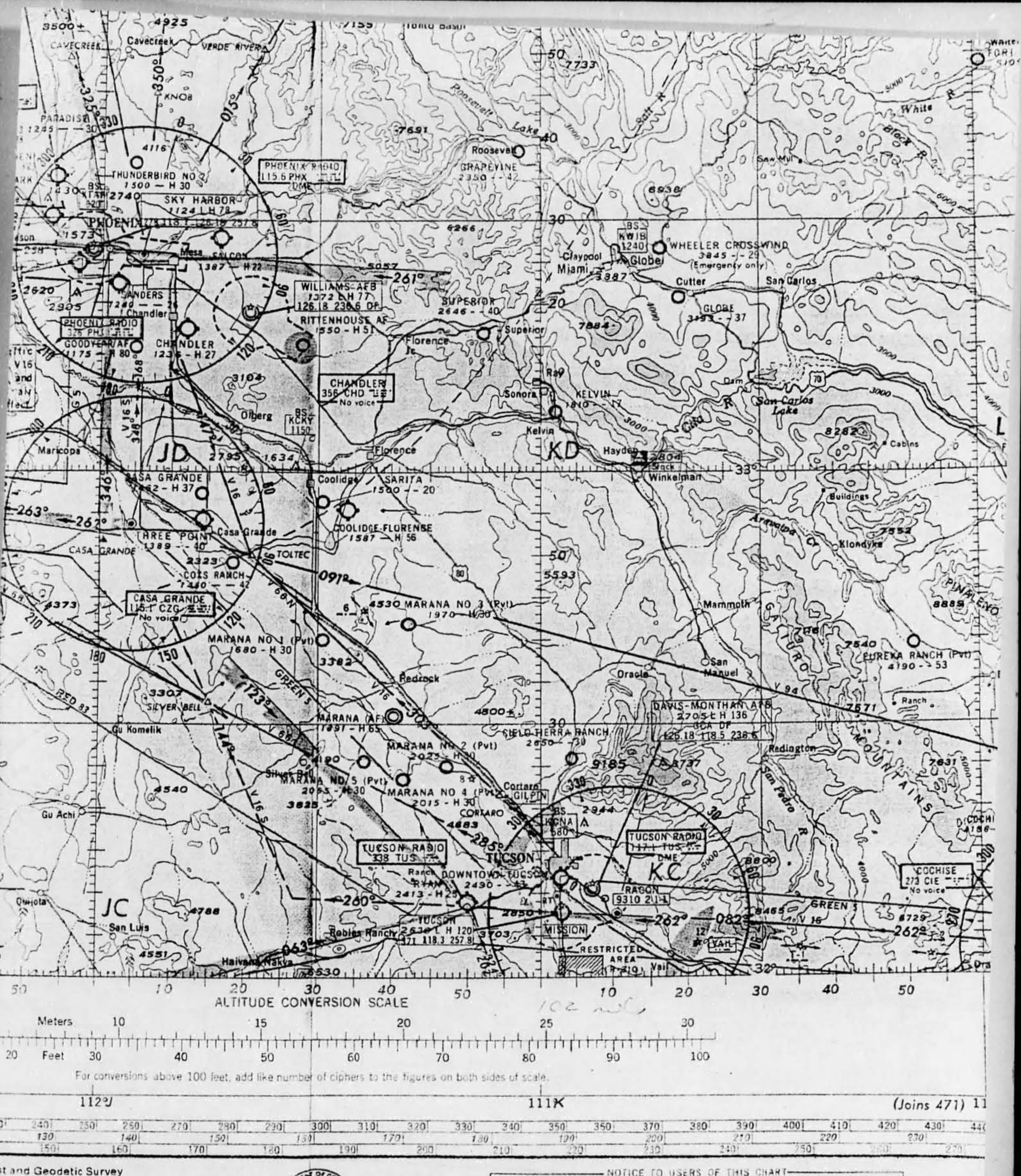


NOTICE TO USERS OF THIS CHART

ntly requested to inform us of corrections and additions that come to
a while using this chart. When practicable, such information should be
arly and accurately on the chart (a replacement copy will be returned).
DIRECTOR, U.S. COAST AND GEODETIC SURVEY, WASHINGTON 25, D.C.

SCALE 1:1,000,000
GEOREF 3-55

27TH EDITION ~~aeronautical~~ information on this c
includes data ~~received~~ through March 4, 19
Consult appropriate NOTAMS and Radio Facility Charts
supplemental data and ~~other~~ information.
Next edition is scheduled ~~for~~ approximately six months.

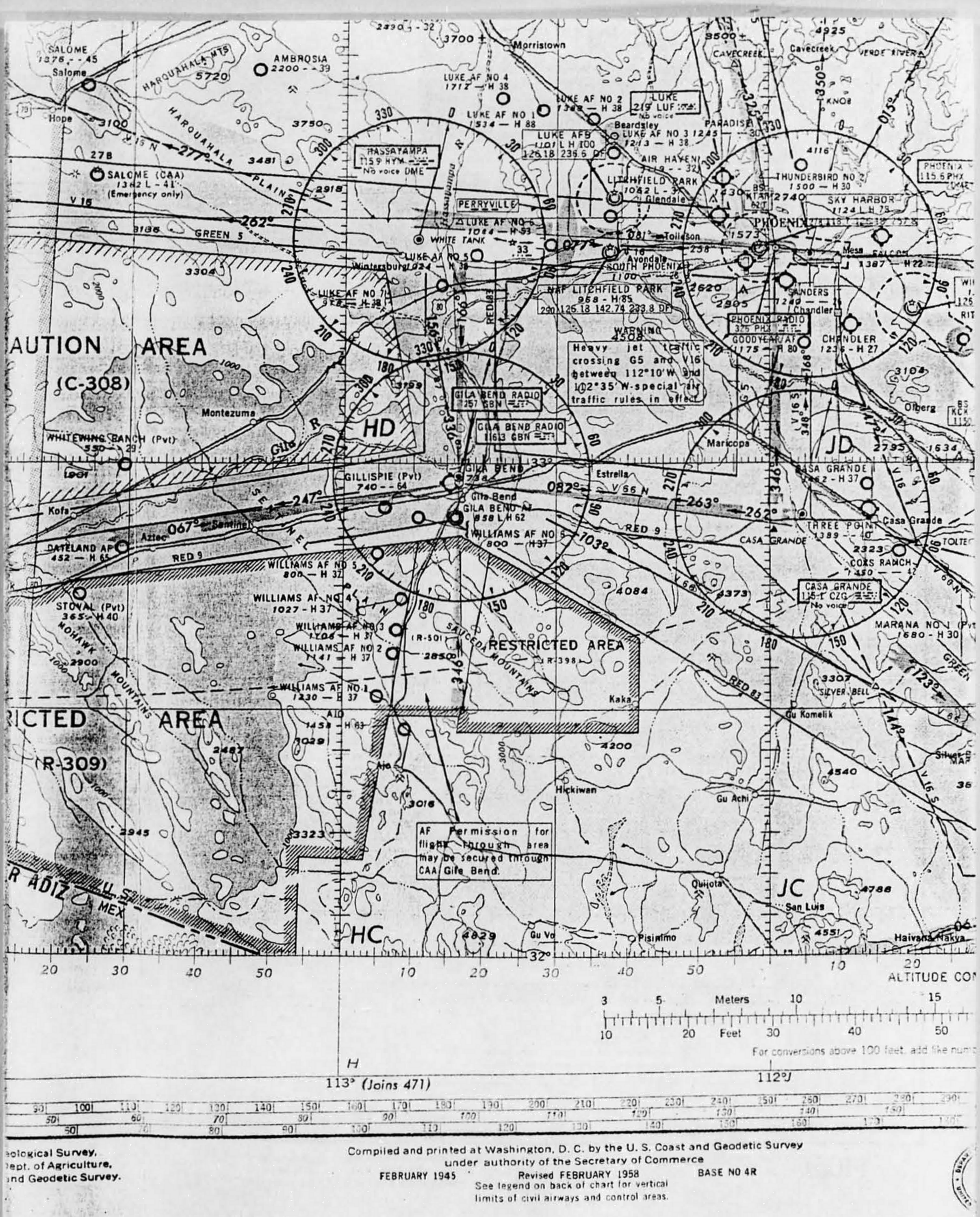


ast and Geodetic Survey
mmerce

BASE NO 4R

NOTICE TO USERS OF THIS CHART

You are urgently requested to inform us of corrections and additions that come to your attention while using this chart. When practicable, such information should be indicated clearly and accurately on the chart (a replacement copy will be returned). Mail to: THE DIRECTOR, U.S. COAST AND GEODETIC SURVEY, WASHINGTON 25, D.C.

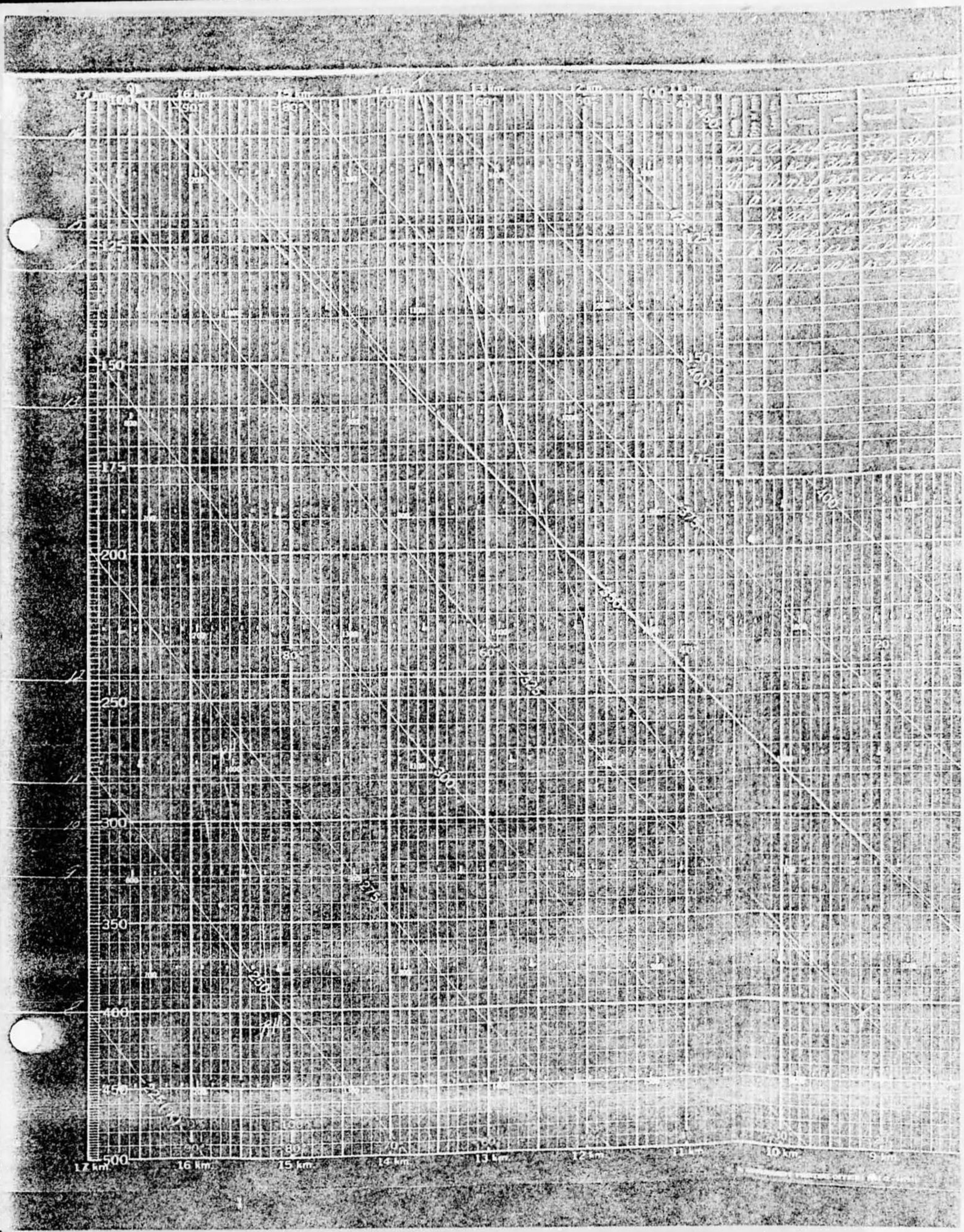


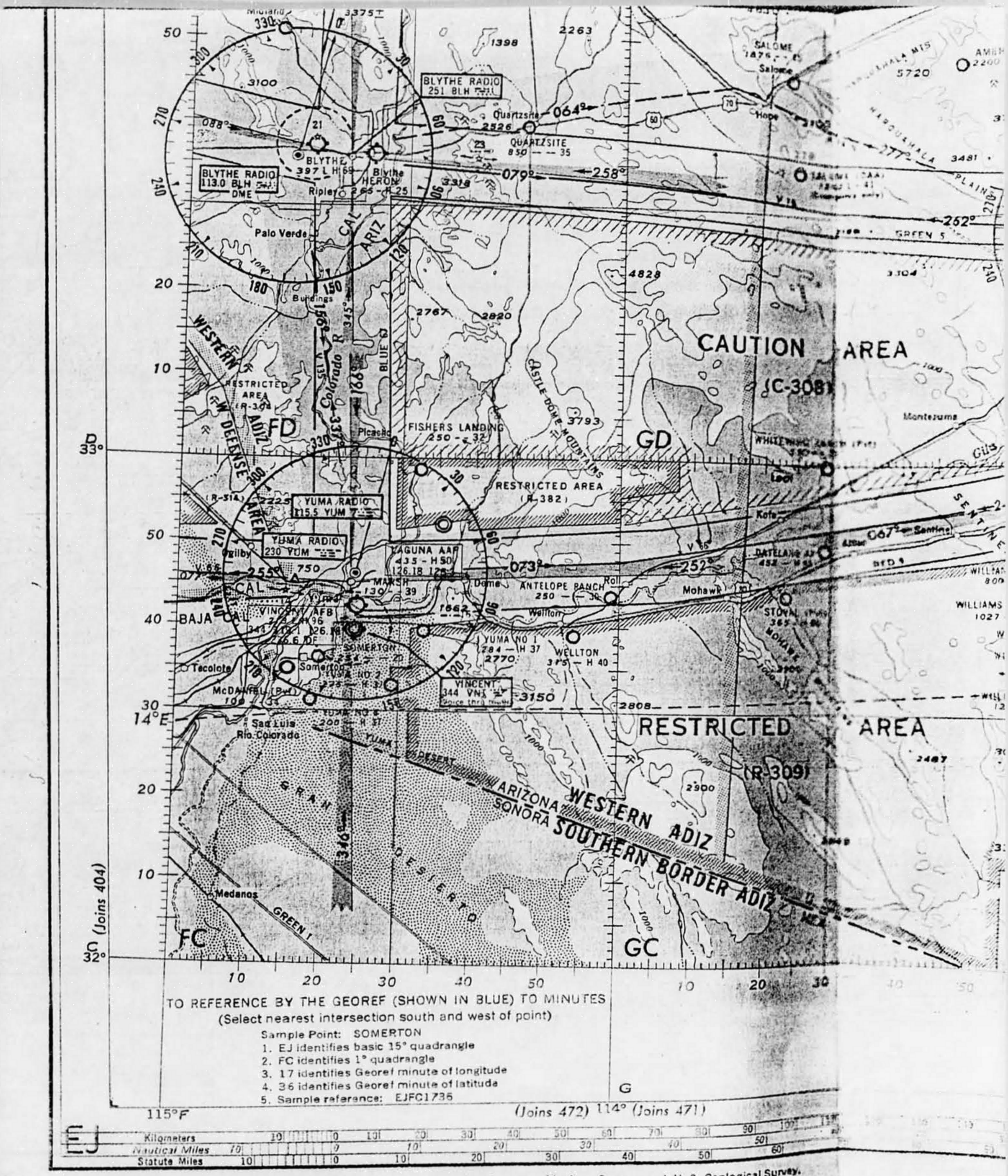
Geological Survey,
Dept. of Agriculture,
and Geodetic Survey.

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

FEBRUARY 1945 Revised FEBRUARY 1958 BASE NO 4R

See legend on back of chart for vertical limits of civil airways and control areas.


150
175
200
250
300
350
400
450
500
17 km
16 km
15 km
14 km
13 km
12 km
11 km
10 km



(405) PRICE 25 CENTS

Principal Sources: Mexican Government, U. S. Geological Survey, U. S. Army Corps of Engineers, U. S. Air Force, U. S. Dept. of Agriculture, Civil Aeronautics Administration, and the U. S. Coast and Geodetic Survey

ndards
e chart number.

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

EJ

109M 14°E

108N (Joins 362)

CHINLE 5700 — 50

Chinle

MG

NG

6535

Chaco Canyon

6643

Ranch

36°

(Joins 406)

Tohatchi

Ranch

7256

Fort Defiance

Ganado

Ranch

WINDOW ROCK 6800 — 52

St Michaels

Crownpoint

BS KGAK 1330

8620

168°

McKINLEY COUNTY 6467-L/H 50

Gallup

Wingate

Klagetoh

66

8851

Black

Manuelito

McGaffey

Thoreau PREWITT 6900 — 29

Prewitt

ZUNI MOUNTAINS

9112

9256

9089

Buildings

Sanders

CHAMBERS 5800 — 26

Chambers

Navajo

MF

ZUNI RADIO 115.7 ZUN

Ramah

GRANTS 5520 L/H 53

Grants

NF

EL MORRO (CAA)

Zuni

Pinta

Puerco R

GREEN 4

7540

Ojo Caliente

Ranch

Ranches

ZUNI RADIO 353 ZUN

GRANTS RADIO 116.3 GNT

8260

LAVA

To Albuquerque

1175 ABQ

Atarque

Fence Lake

NEW MEXICO

ARIZONA

Substantial magnetic disturbance has been reported at 4000 feet above ground elevation in this vicinity

348°

Trechado

Hickman

ST JOHNS 5700 — 45

St Johns

Concho

Tres Lagunas

Quemado

Pie Town

9560

Vernon

SPRINGERVILLE EAGER 7025 L — 50

Springerville

Eagar

10210

ME

Spur Lake

Mangas

10244

NE

Horse Springs

9390

10955

8920

W

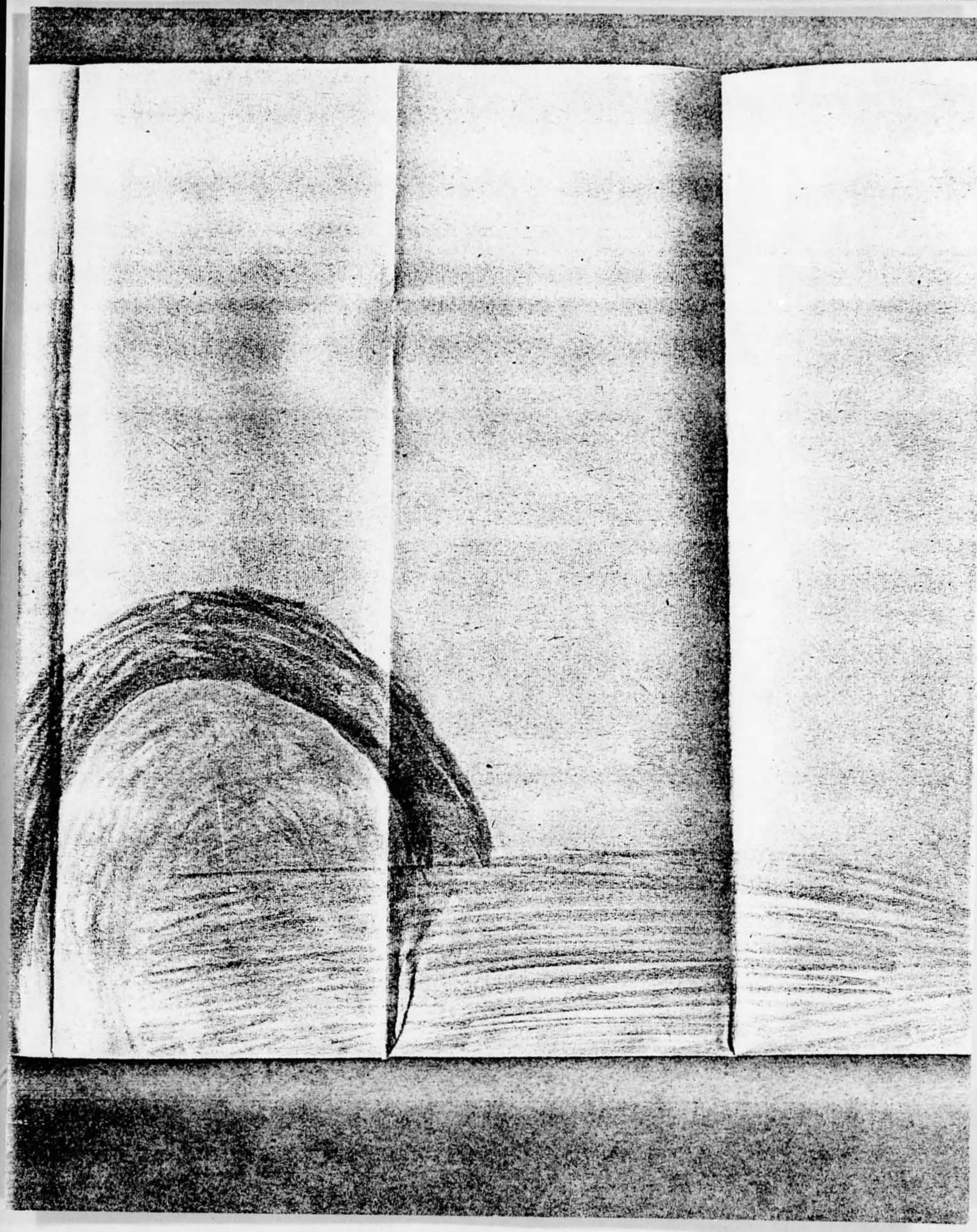
E

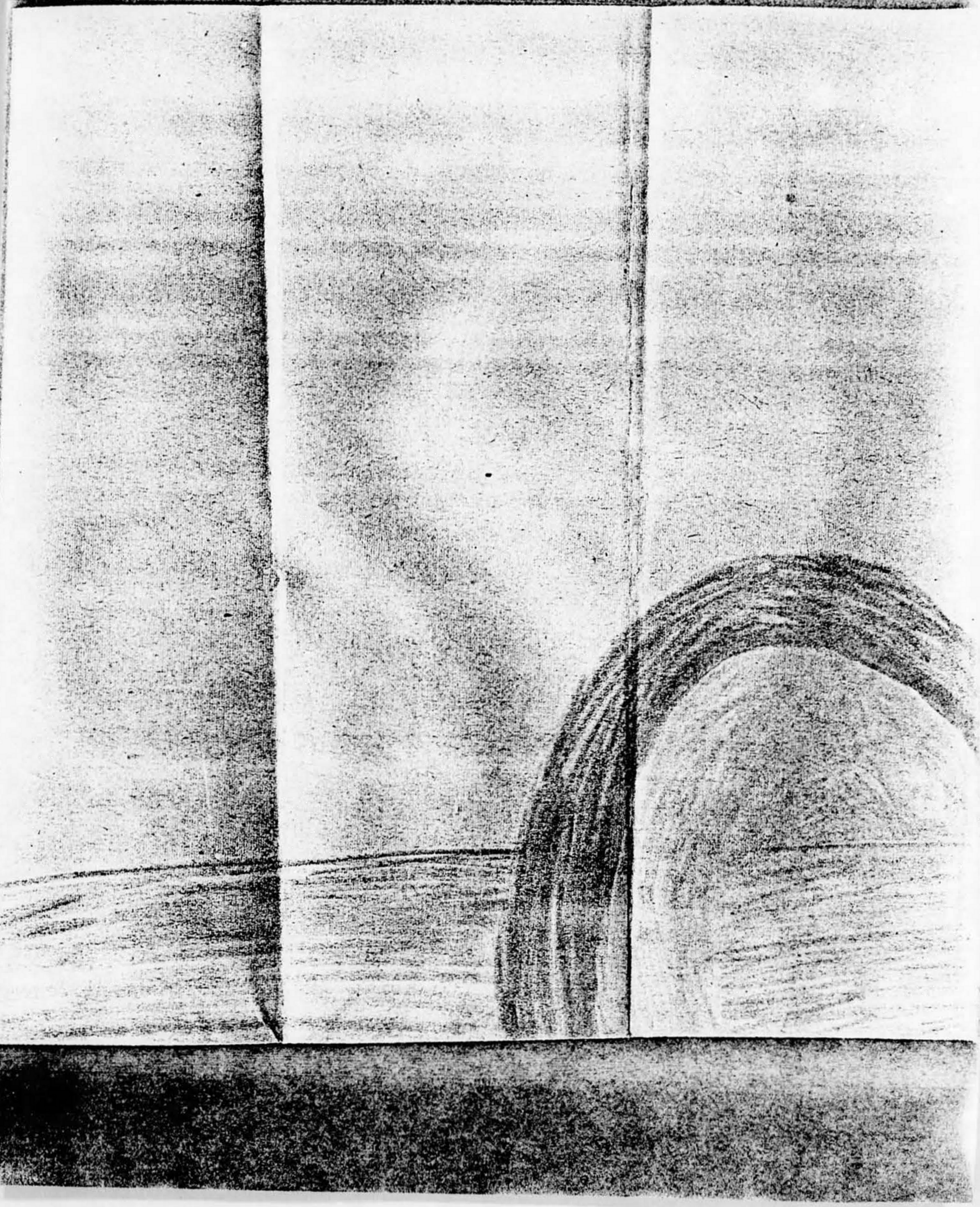
34°

NAUTICAL CHART

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

1153 FMN
To Farmington
(Joins 362)
111K
110L
BLACK MESA
238°
TUBA CITY
4950 - - 44
Moenkopi
7550
CHINLE
5300 - - 40
Chinle
7580
KG
LG
CAMERON
4200 - - 42
V 210
Cameron
Oraibi
Polacca
Keams Canyon
POLACCA
5590 - - 32
GRAY MOUNTAIN
5040 - - 25
Ganado
Ranch
Cornfields
Polacca Wash
Little Colorado R.
Klagetoh
Indian Wells
Dilkon
VALLEY
Sunrise
SUNRISE
4720 - - 27
KF
WINSLOW RADIO
114.9 INW
WINSLOW RADIO
266 INW
Sunshine
COLORADO
V 12 N
6240
CHAMBERS
5800 - - 26
Navajo
Chambers
Buildings
Sanders
062°
CHILSON (FYV)
5500 - - 35
Winslow
6250
077°
255°
V 12
Pinta
258°
PUEBLO
LF
Puerco R.
GREEN 4
250°
WINSLOW
4937 L H 75
HOLBROOK
5241 L H 48
5261A
Joseph City
Adamana
5685
Ranch
063°
234°
7634
6612
Holbrook
CBS
KDJI
1270
Days only
Gas Sta
Woodruff
Little Colorado R.
Zuni R.
8650
Clear Cr.
Chevelon Cr.
193°
6936
ST JOHNS
5700 - - 45
St Johns
Long Valley
Snowflake
Concho
8077
MOGOLLON
Heber
Ranch
HEBER-OVERGAARD
6620 - - 34
Clay Springs
Shumway
SHOW LOW
6412 - - 41
PLATEAU
7882
7915
7933
7730
Standard
6639
Show Low
Vernon
Pine
Payson
BIRCH MESA
5125 - - 31
7578
7905
McKENZIE RANCH
5095 - - 26
Young
Buildings
Tonto
Q RANCH
5515 - - 34
Cibecue
KE
LE
Lakeside
McNary
10210
SPRINGERVILLE EAGER
7025 - - 50
340°
120
150
180
210
270
300
330
0
30
60
90
160°





TOPOGRAPHICAL SYMBOLS

AND TOWNS

NEW YORK

RICHMOND

ARLINGTON

Freehold

Corville

Arcola

HIGHWAYS AND ROADS

Dual Lane and Super Highways

Primary Roads

Secondary Roads

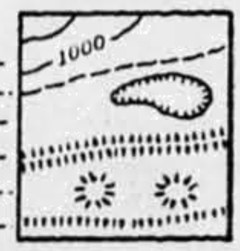
Trails

U. S. Road Markers 60

National, State or Provincial Road Markers 37

Road Names ALASKA HIGHWAY

RELIEF FEATURES



ents

Sand { Dunes; Areas; Ridges }

Lava Flow

HYDROGRAPHIC FEATURES

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

Intermittent Lakes (blue stipple)

Drainage Ditches

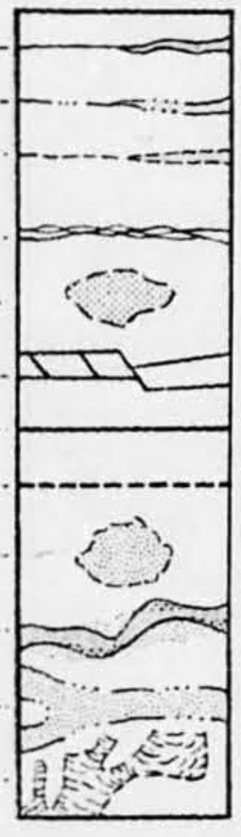
Canals { In use; Abandoned }

Dry Lake Beds (brown stipple)

Sand Deposits in river bed

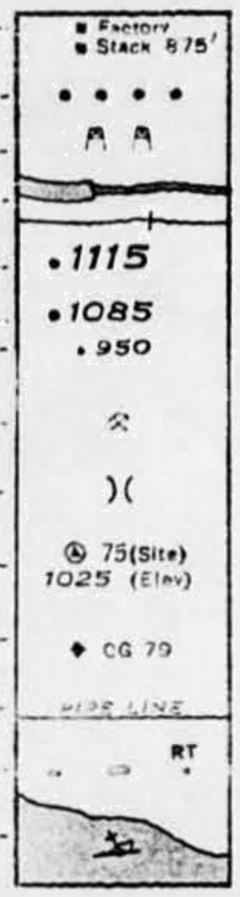
Dry Washes (brown stipple)

Glaciers and Ice Caps



y Ledges

CULTURAL AND MISCELLANEOUS



Boundaries { International; State & Provincial }

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

Bridges { Railroad; Highway }

Tunnels { Railroad; Highway }

TOPOGRAPHICAL SYMBOLS

IBOLS

certain LF/MF facilities such
h are printed in magenta.
he word "Radio" within the box indicates voice facilities.

mmunication Station ⊙ CS GOWEN RADIO 4470
)

mmunication Station ⊙ CS KAZAN 5200 CKNX "No voice"
oice)

oadcasting Station ⊙ BS CFRB 1010

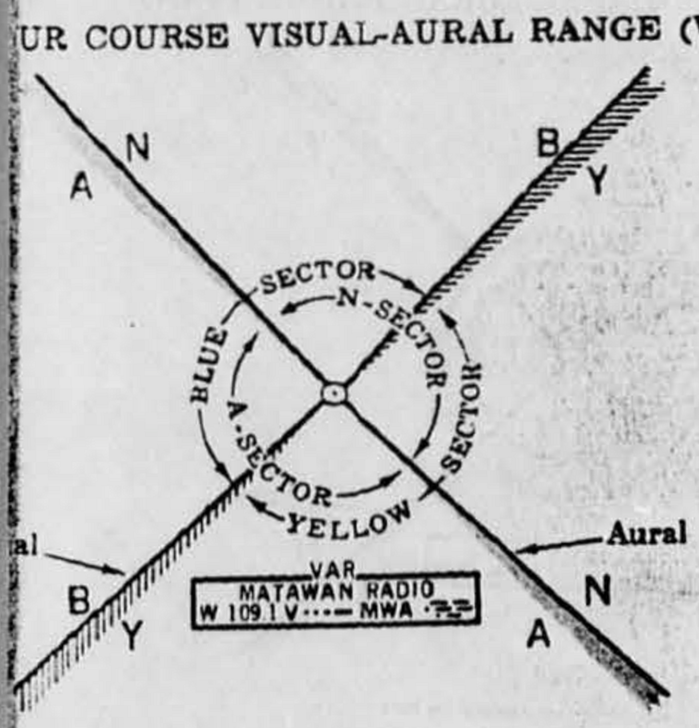
acon (Racon) ⊙ RACON 3256 2-1-2

n Marker Beacons
100 watts — NOTT
BATES
5 watts — DIXIE

271°

n are magnetic and the magnetic
ed for computing them.

UR COURSE VISUAL-AURAL RANGE (VAR)



Letter preceding frequency in box indicates channel indentification.

ROL

Control Zone

Uncontrolled Civil Airway

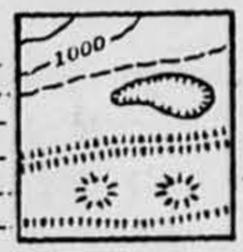
only below 27000 feet MSL

CITIES AND TOWNS

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

RELIEF FEATURES

Contours { Reliable, Approximate, Depression }
Levees or Eskers
Hachures
Bluffs, Cliffs & Escarpments



Sand { Dunes, Areas, Ridges }
Lava Flow

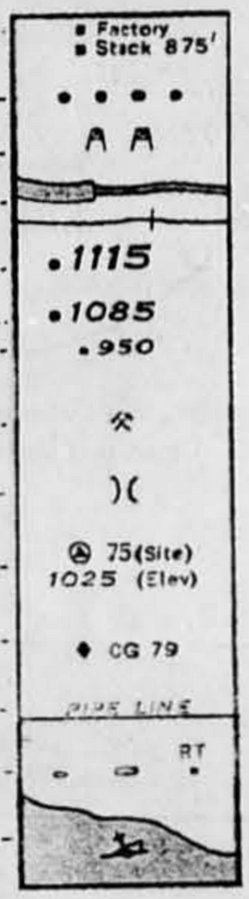
HYDROGRAPHIC FEATURES

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, Intermitter, Probable, Unsurve, Braided }
Intermittent Lakes (blue stipp
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 }

HIGHWAYS ANI

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

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 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

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

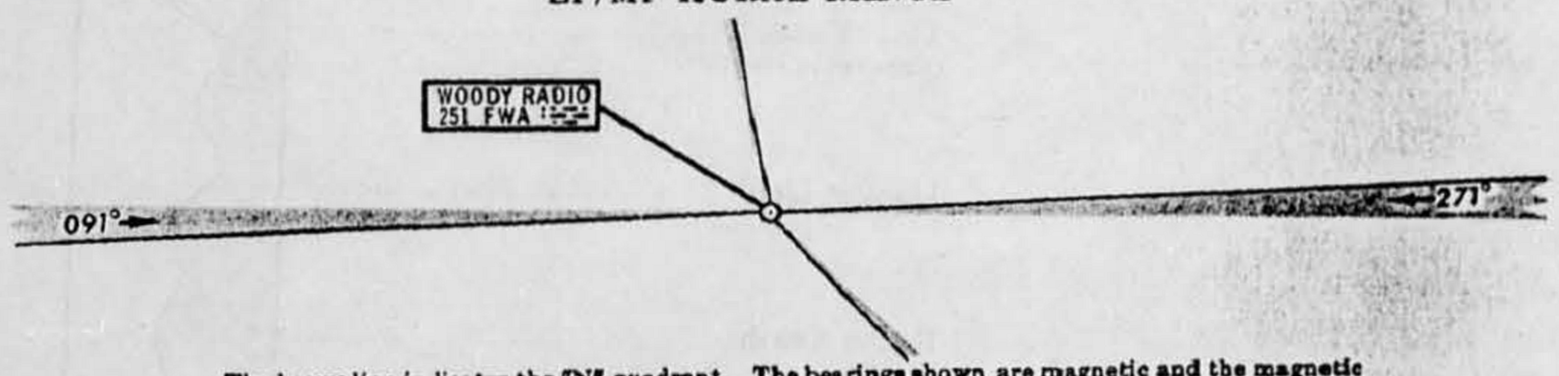
Radio Communication Station (Without voice) — CS KAZAN 5200 CKNX "No voice"

Radio Broadcasting Station — BS CFRB 1010

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

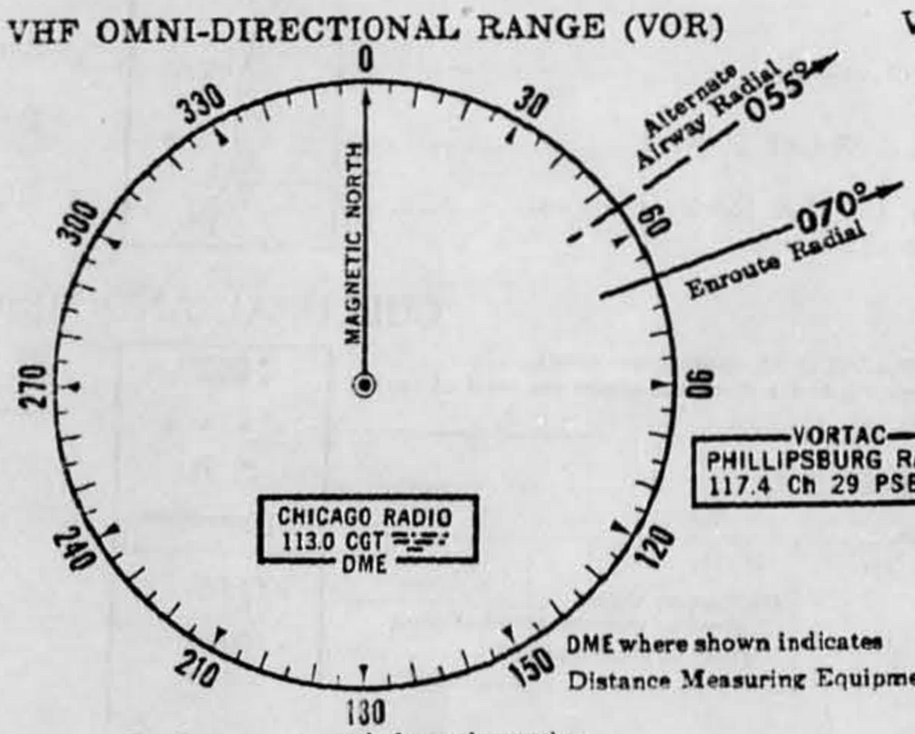
Radio Fan Marker Beacons — 100 watts: NOTT; BATES; 5 watts: DIXIE

LF/MF 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)

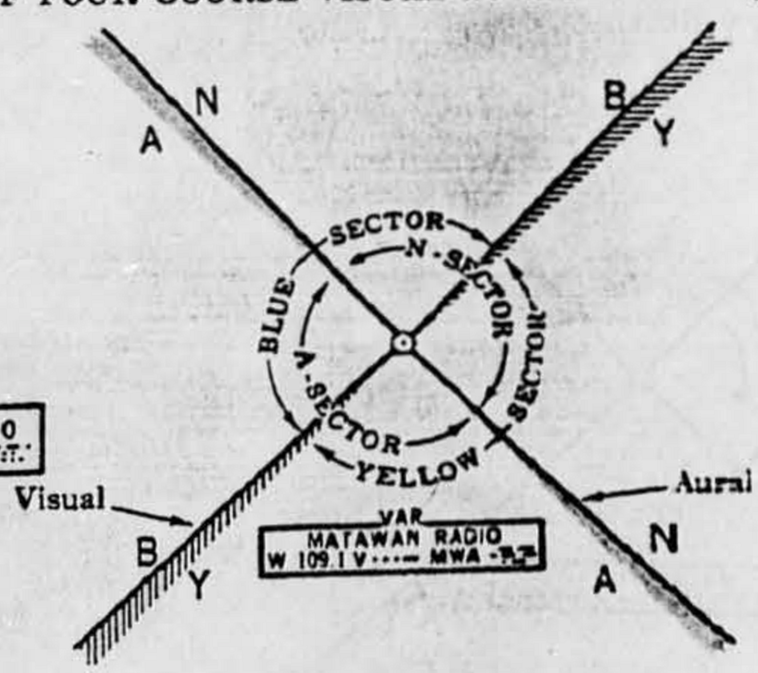


DME where shown indicates Distance Measuring Equipment

Bearings are magnetic from the station.

Radius of circle is 15 nautical miles.

VHF FOUR COURSE VISUAL-AURAL RANGE (VAR)



Letter preceding frequency in box indicates channel indentification.

AIR TRAFFIC CONTROL

Blue tint where shown indicates controlled airspace

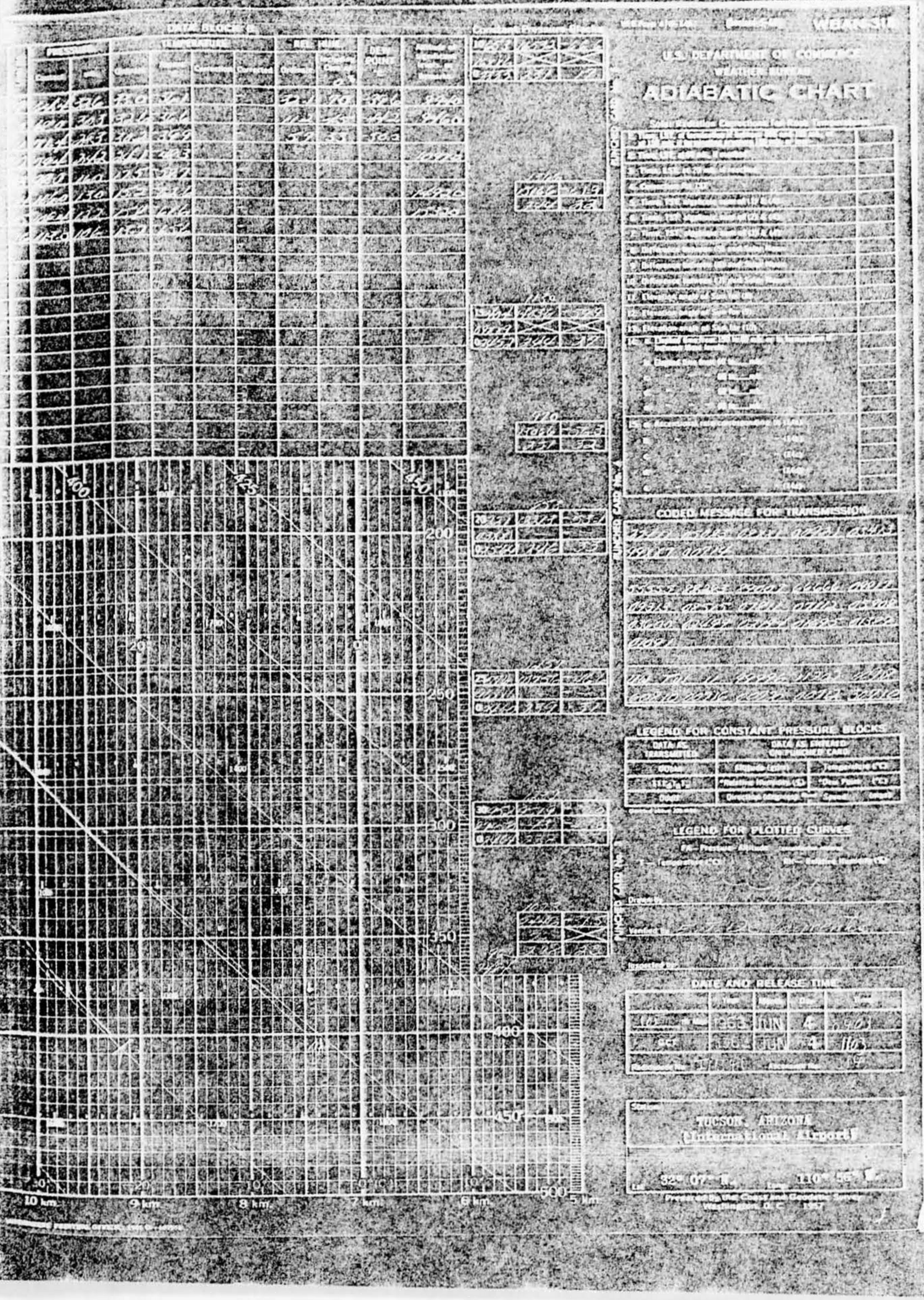
(Within continental U.S. all airspace at and above 24000 feet MSL except prohibited and restricted areas is controlled, and blue tint indicates only controlled airspace below 24000 feet)

Control Zone

Controlled Civil Airway

Uncontrolled Civil Airway

Civil airways within continental U.S. effective only below 27000 feet MSL


DATA BLOCK
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DEW POINT
WEATHER
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
CODED MESSAGE FOR TRANSMISSION
LEGEND FOR CONSTANT PRESSURE BLOCKS
DATA AS TRANSMITTED
DATA AS ENTERED ON PUNCHED CARD
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
TUCSON, ARIZONA
(INTERNATIONAL AIRPORT)
100
200
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450
500
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9 km
8 km
7 km
6 km
5 Mb

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

BARGERSVILLE
90s L H 41
Airport of entry
GCA ILS DF
278 119.5 126.18
257.8 122.7G

LAND		WATER	
90s	Elevation in feet	00	Elevation in feet
L	Minimum lighting	L	Minimum lighting
H	Hard surfaced runway	S	Normal sheltered take-off area
41	Length of longest runway in hundreds of feet	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.
278 119.5 126.18 257.8	Control tower transmitting frequencies.
122.7G	Non-standard tower guarding frequency.

Low or medium tower frequency shown first, followed in order by primary VHF local control, primary military VHF and UHF, and non-standard VHF guarding 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 Occ W R G

F—Fixed Qk Fl—Quick Flashing Occ—Occulting Gp—Group W—White B—Blue SEC—Sector
Fl—Flashing I Qk Fl—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 A

Obstruction, 500 feet or higher above ground 1937 A
(Numerals indicate elevation above sea level of top)
(UC: Under construction, position and elevation unverified)

Prominent Transmission Line —T———T—

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 agency

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

U. S. PROHIBITED, RESTRICTED, CAUTION, AND WARNING AREAS ON WORLD AERONAUTICAL CHART 405

NO.	NAME	ACTIVITY	CONTROLLING AGENCY	ALTITUDE	TIME
R-304	Chocolate Mountains	Aerial Gunnery	Flt. Air Det., El Centro, Calif.	Unltd.	Unltd.
C-308	Gila Bend	Jet training and acrobatics	Luke AFB, Phoenix, Ariz.	4,000-45,000	0600-2200 Mon. thru Friday
R-309	Ajo	Bombing, Aerial Gunnery and Rocket Firing	AFTRC, Luke AFB, Ariz. and ADC, Yuma County Arpt., Ariz.	Unltd.	Unltd.
R-310	Sahuarita	Bombing	Davis-Monthan AFB, Ariz.	Unltd.	Days
R-314	Sand Hills	Aerial Gunnery, Bombing, Rocketry	11th Naval District	Unltd.	Unltd.
R-382	Yuma	Research, Development and Test Firing of Various Weapons and Ammunition Types	Yuma Test Station, Yuma, Arizona	To 50,000	Unltd.
R-398	Gila Bend	Air-to-Air & Air-to-Ground Gunnery	Luke AFB, Ariz.	Unltd.	Unltd.
R-495	Flagstaff	Demolition of Ammunition	Navajo Ordnance Depot	To 11,000	0800-2400 Mon. thru Sat.
R-501	Gila Bend No. 2	Air-to-Ground Gunnery and LABS	Luke AFB, Ariz.	Unltd.	Unltd.

Altitude given in feet. P - Prohibited R - Restricted C - Caution W - Warning 3-4-58

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.

Aero

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BARGERSVIL
908 L H 4
Airport of en
GCA ILS D
278 119.5 12
257.8 122.7

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F—Fixed
Fl—Flashing
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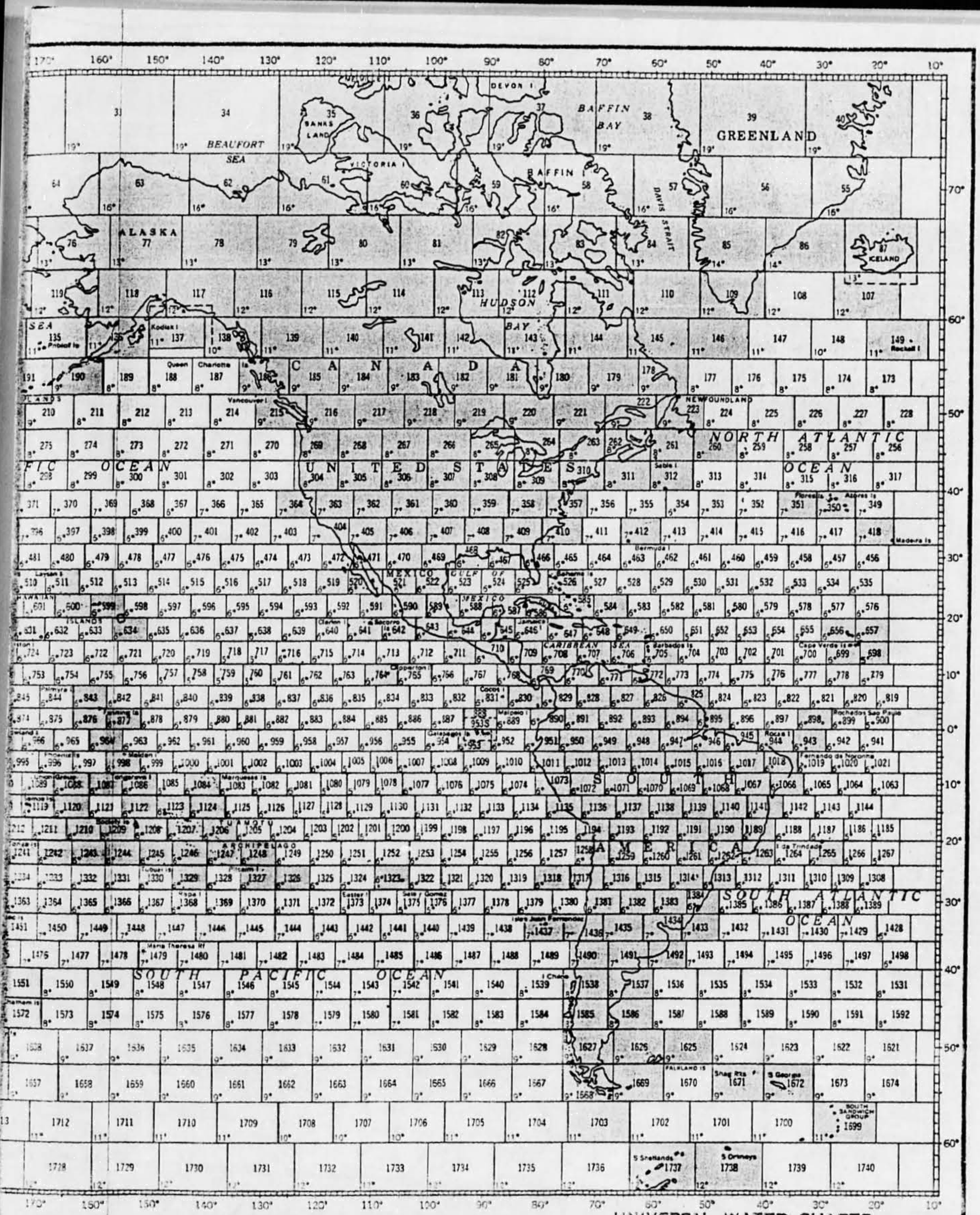

Charts published

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**

WORLD AERONAUTICAL CHART INDEX

Scale of Series 1:1,000,000

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ENTRAL PART WOULD REMAIN

OUR EYES AND WOULD

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NUTES AFTER WE GOT THROUGH WATCHING IT. IT
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IS ⊣ THE ONLY IMPROVEMENT OVER THIS DRAWING
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ITS EXACT CENTER.

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ITS EDGE AND THE CENTRAL PART ELONGATED
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WITH THE GROUND

ITS FLIGHT PATTERN ALSO REMINDED ME
FLY OR "DARNING NEEDLE". AS WE USED TO CA
WOULD SEEMINGLY HOVER AND THEN SHOOT O
MISCELLANEOUS DIRECTION, UP, DOWN, SIDEWAYS,
ANY OTHER DIRECTION. IT STAYED IN THE SA
AREA FOR ABOUT 20 to 25 MINUTES.

DATA PROCESSING DIVISION
CLIMATIC CENTER, USAF
Air Weather Service (MATS)
Asheville, North Carolina

REPLY TO
ATTN OF: CCDPD

SUBJECT: Upper Air Data for Mesa, Arizona

11 July 1963

TO: Aerospace Technical Intelligence Center/TDE
Foreign Data Division (Sgt. Moody)
Wright-Patterson AFB, Ohio

1. Reference: Your telephone request 1045 EST on 10 Jul 63.

2. We are sending two photocopies of rawinsonde observations (WBAN-31) taken at Tucson, Arizona WBAS on 4, 5, and 6 June 1963. Tucson is the closest station to Mesa, Arizona, taking rawinsonde observations.

FOR THE DIRECTOR

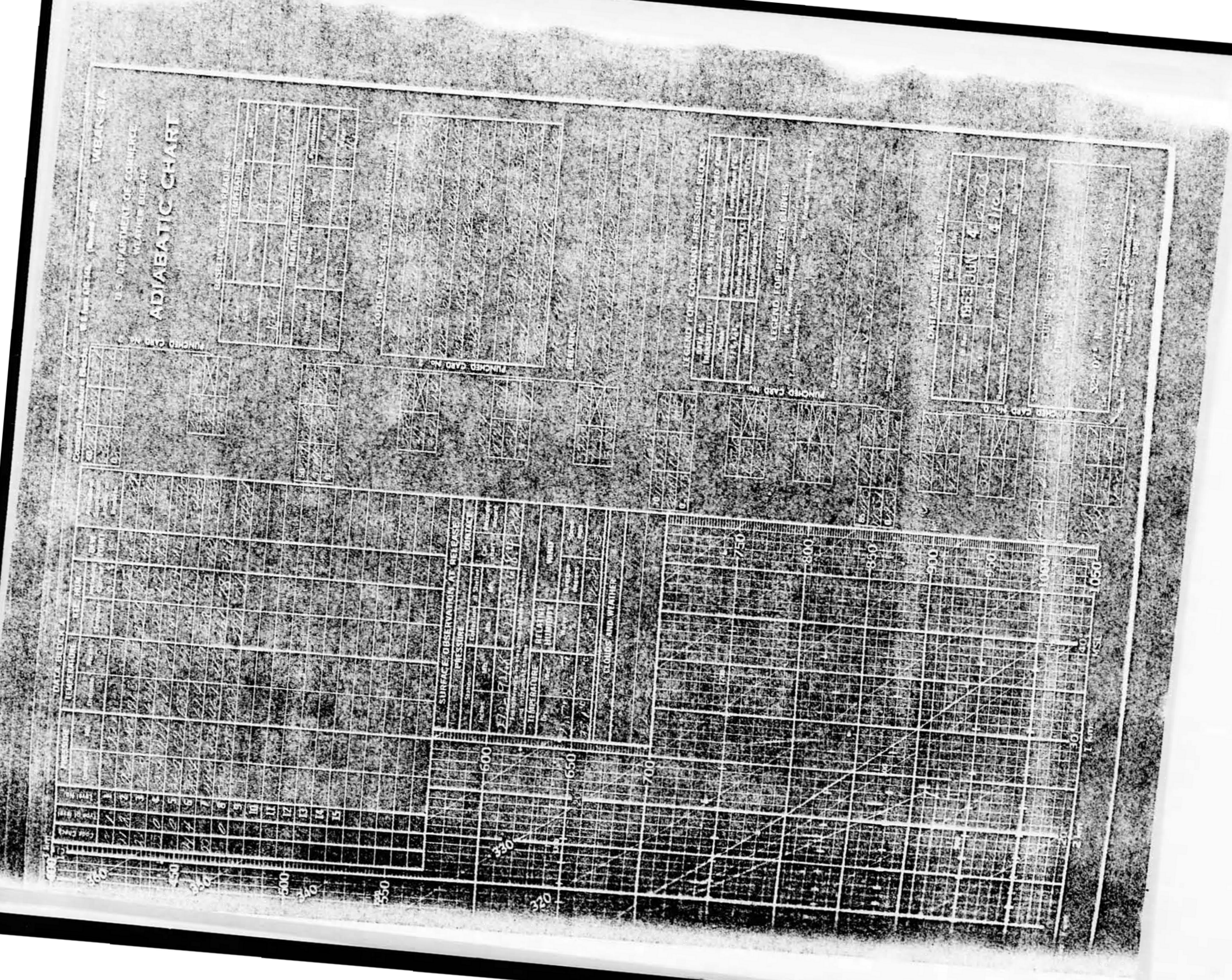
Richard L. Hoke

RICHARD L. HOKE
2nd Lt., USAF
Administrative Officer

Atch
2 sets photocopies
as listed above

One Copy of each chart sent to Dr Hynek 25 July 1963

D. Moody T/Sgt


ADIABATIC CHART
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
WASHINGTON
NUMBER CARD NO.
LEGEND FOR CONSTANT PRESSURE BLOCKS
DATE AND RELEASE TIME
SURFACE OBSERVATION AT RELEASE
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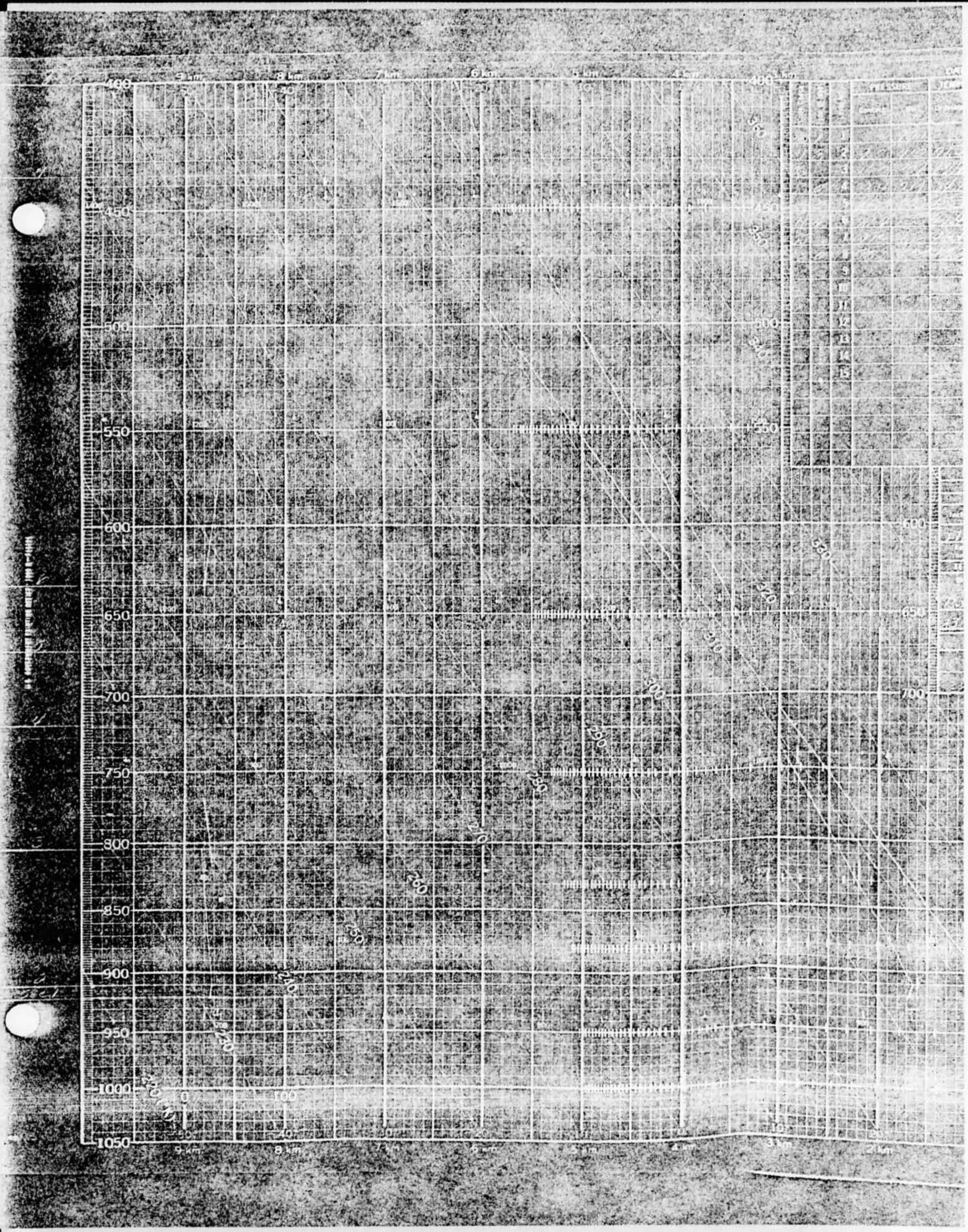
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