PROJECT 10073 RECORD CARD

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

10. BRIEF SUMMARY OF SIGHTING

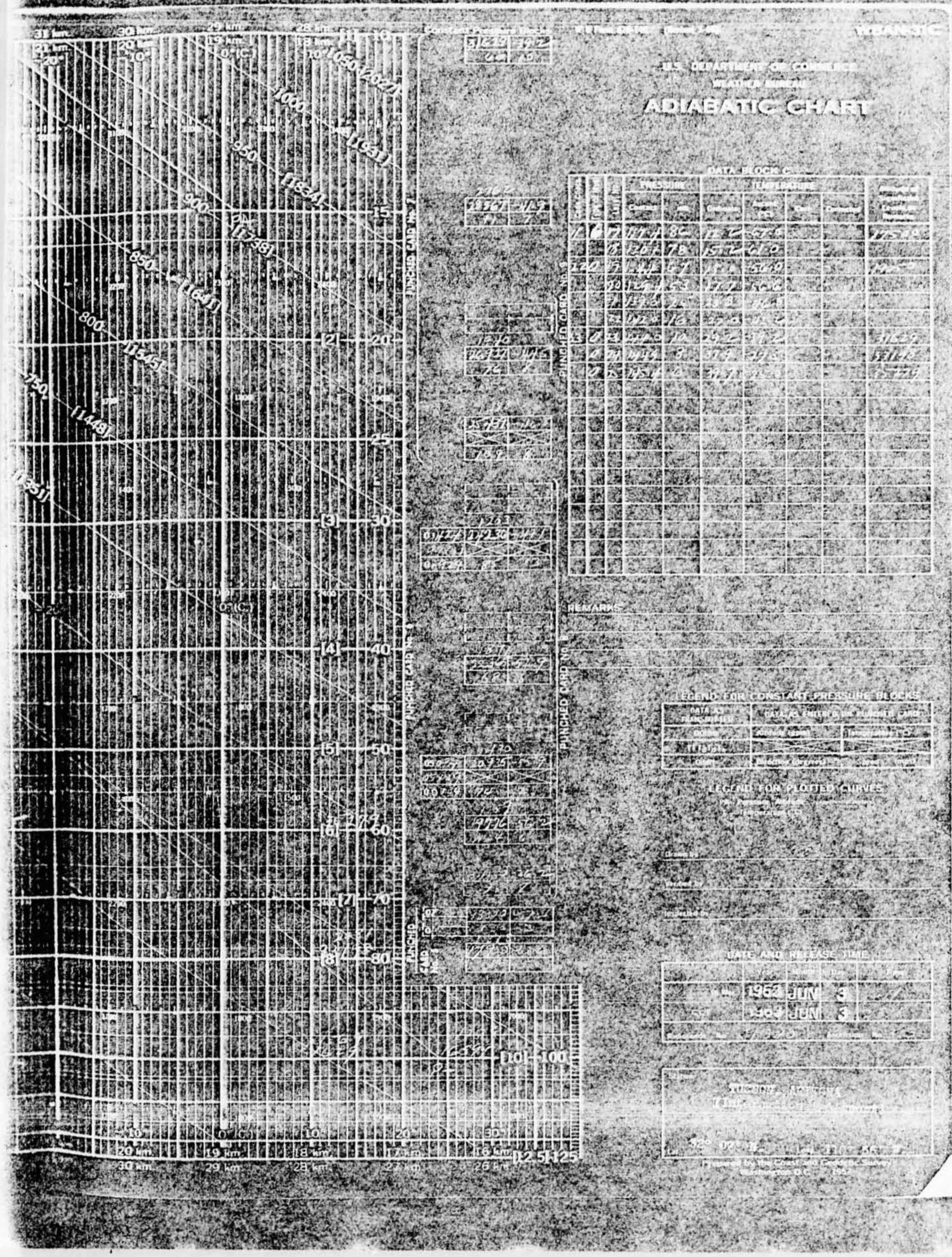
See case file.

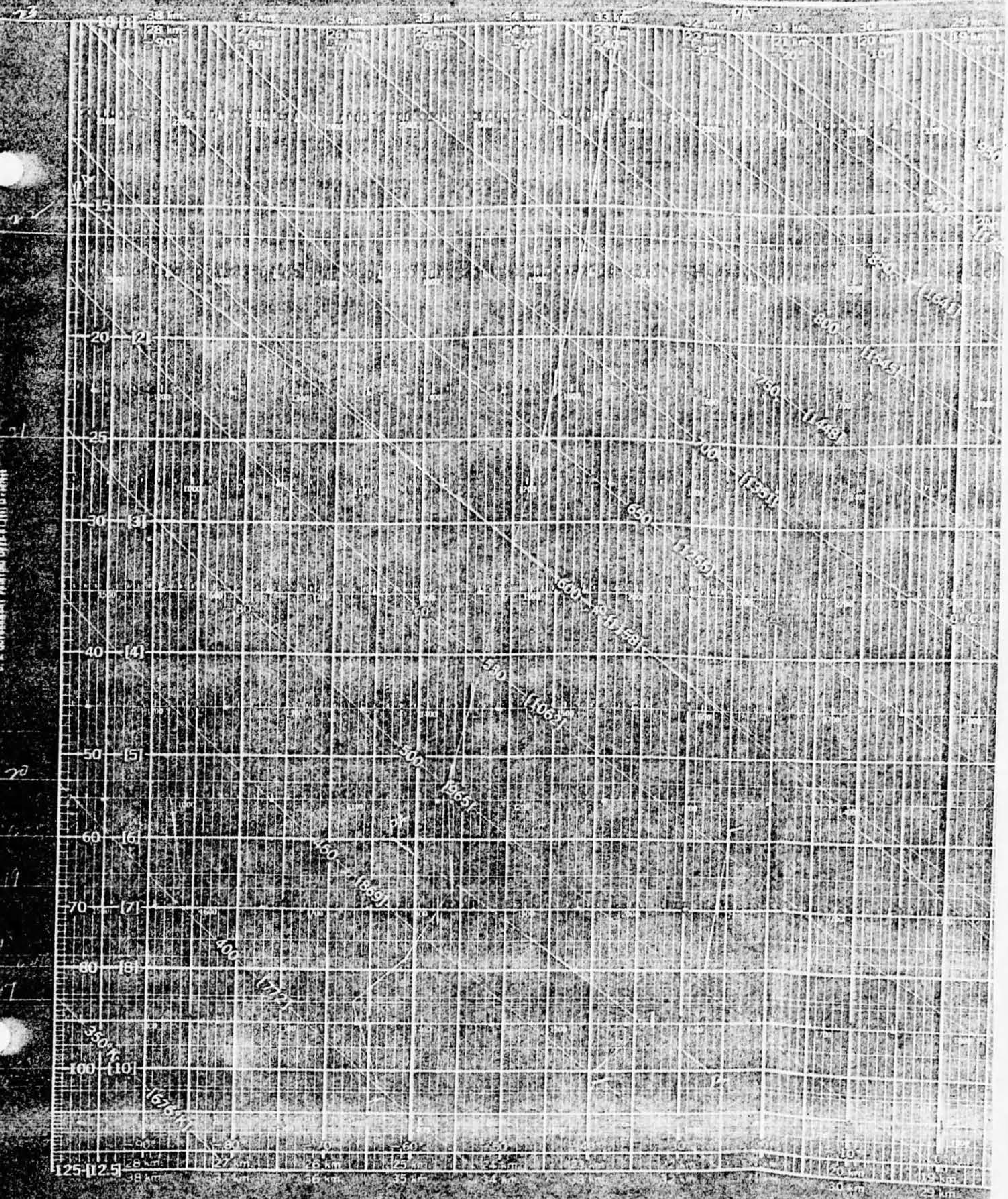
(SKETCH IN FILE)

11. COMMENTS

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

ATIC FORM 329 (REV 26 SEP 52)

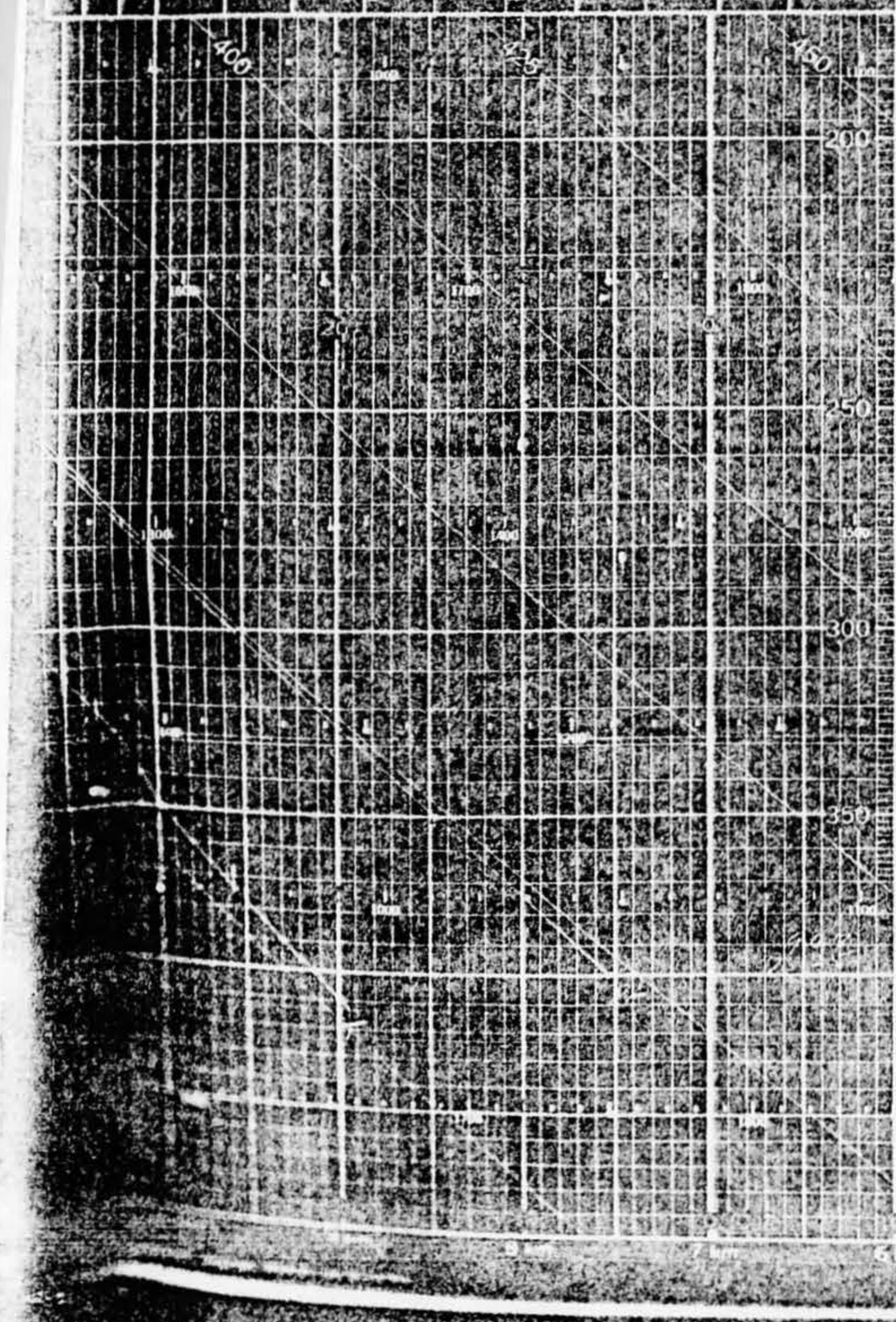

ADIABATIC CHART
DATA BLOCK
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
1964 JUN 3
1964 JUN 3
PUNCHED CARD
1000
950
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
10
20
30
40
50
60
70
80
90
100
31 km
30 km
29 km
28 km
27 km
26 km
20 km
19 km
18 km
17 km
16 km
12.5
12.5



U. S. GOVERNMENT PRINTING OFFICE

DATA BLOCK B

		PRESSURE		TEMPERATURE				REL. HUM.		DEW POINT	
		Contact		Contact		Correction	Corrected	Contact			
	9	775	79	30	19			30	7		
	10	820		31				28			
	11	864	34	310	4			34		17	
	12	919	20	320	24						20
	13	974	22	114	7						24
	14	1024	12	116	6						18
	15	1025	21	116	6						20
	16	111	24	117	5						



CONSTANT PRESSURE BLOCK

100	272	
0		
200	1114	23
0	7	3
250	1270	27
0		
300	9	7
973	3	3
0	2	1
	7	
	4	

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

CODED MESSAGE FOR TRANSMISSION

LEGEND FOR CONSTANT PRESSURE BLOCKS

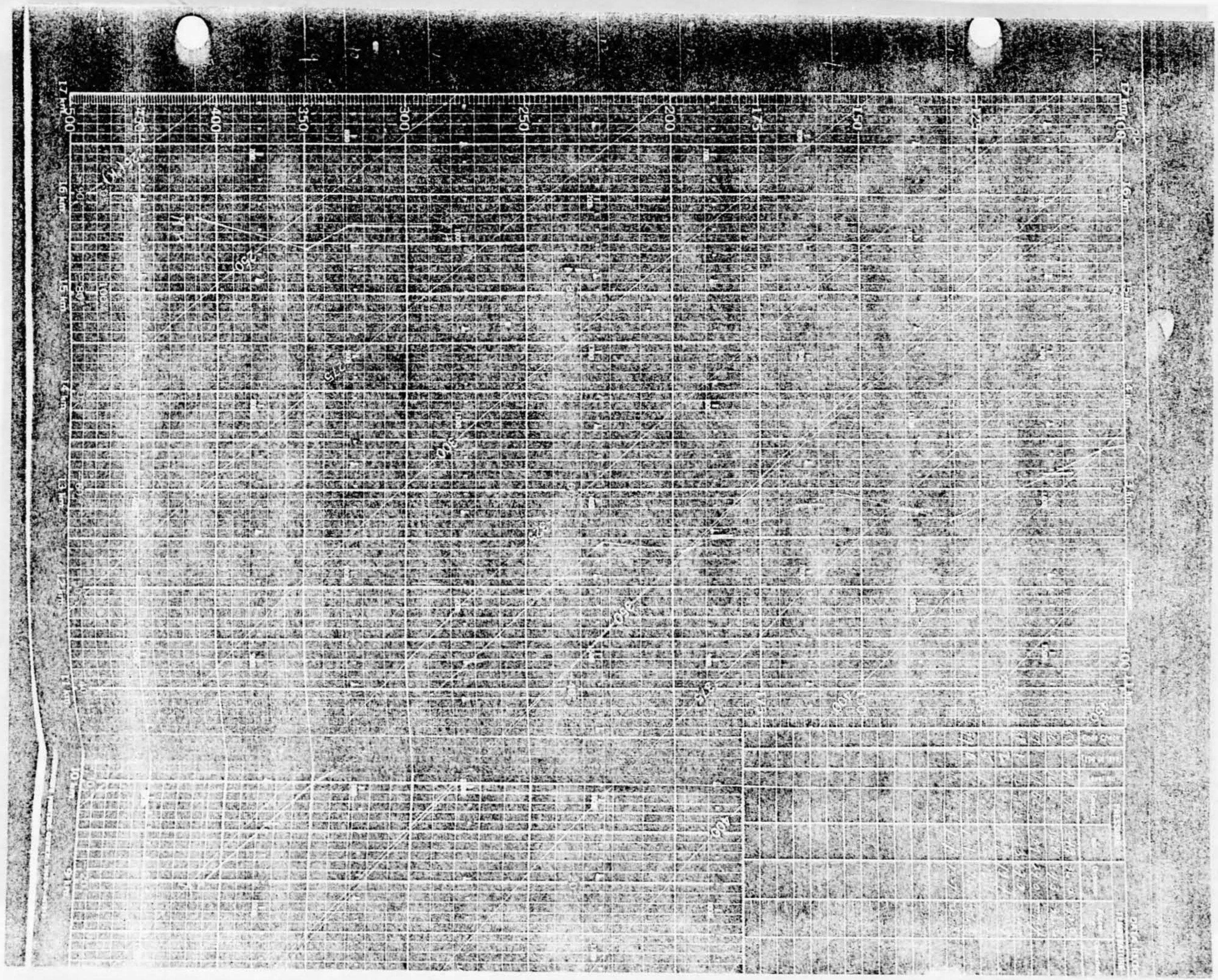
DATA AS TRANSMITTED	DATA AS PLOTTED ON ADIABATIC CHART	

LEGEND FOR PLOTTED CURVES

DATE AND RELEASE TIME

TUCSON, ARIZONA
(Date and Release Time of Ascent)

32° 07' N 110° 56' W


17 km
16 km
15 km
14 km
13 km
12 km
11 km
10 km
9 km
8 km
7 km
6 km
5 km
4 km
3 km
2 km
1 km
0 km
500
450
400
350
300
250
200
175
150
125
100
75
50
25
0

WBAN 31A

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

DATA BLOCK A

Time	Pressure	Temperature	Dew Point	Wind Dir.	Wind Spd.
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

TEMPERATURE | RELATIVE HUMIDITY | WIND

CLOUDS AND WEATHER

BASELINE CHECK READINGS

TEMPERATURE

RELATIVE HUMIDITY

CODED MESSAGE FOR TRANSMISSION

LEGEND FOR CONSTANT PRESSURE BLOCKS

LEGEND FOR PLOTTED CURVES

DATE AND RELEASE TIME

1963 JUNE 3

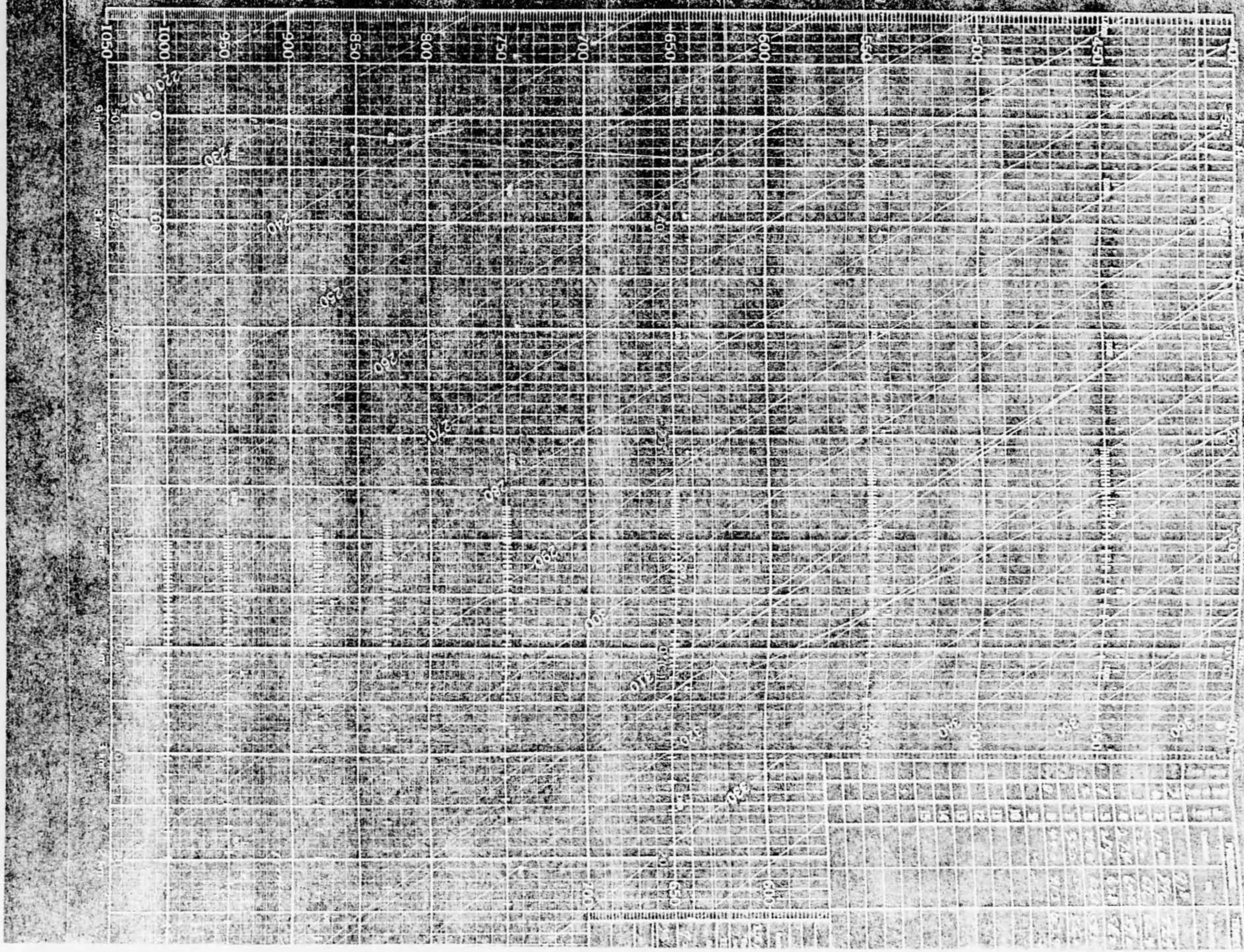
PUNCHED CARD NO.

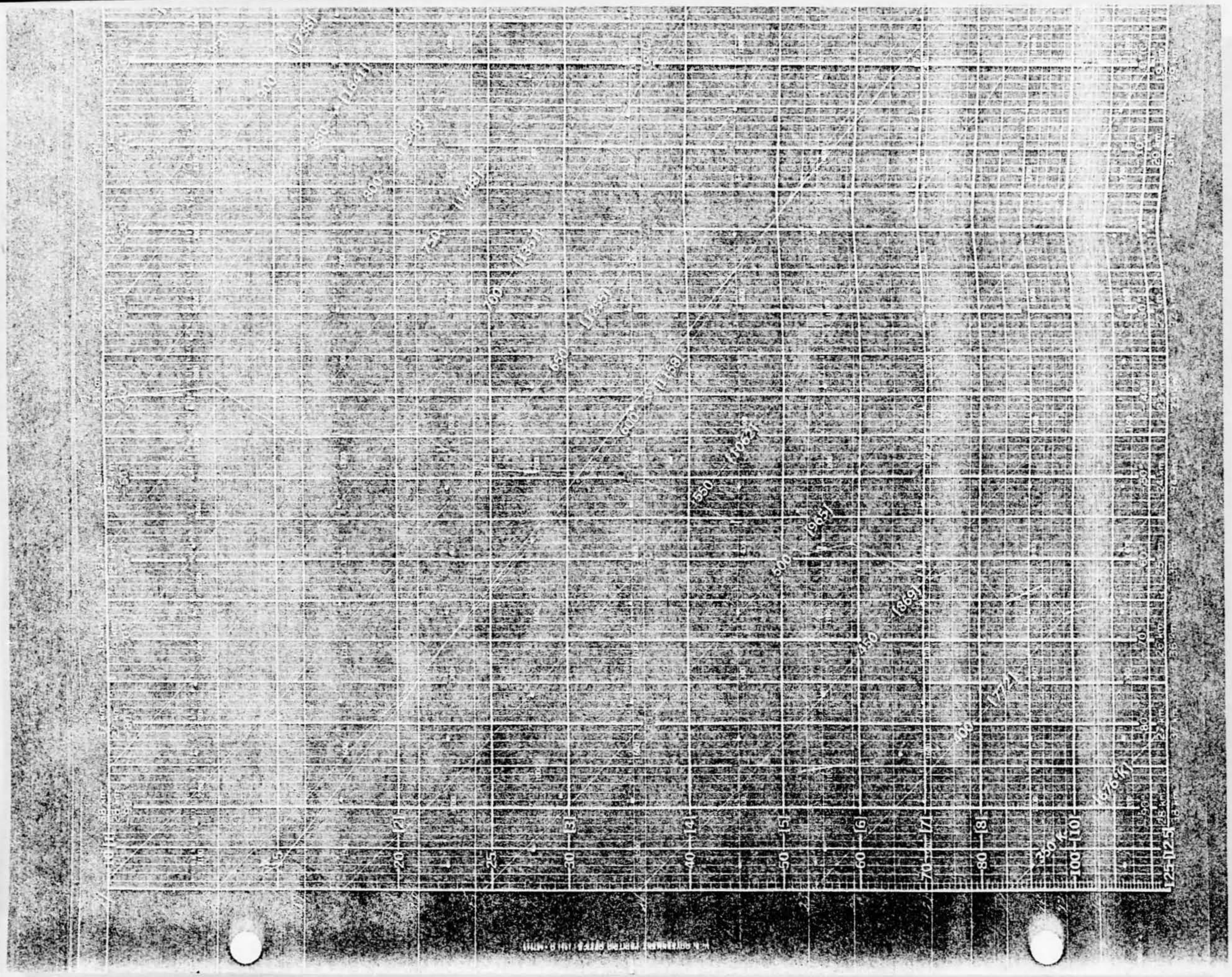
PUNCHED CARD NO.

PUNCHED CARD NO.

500 550 600 650 700 750 800 850 900 950 1000 1050

MSL



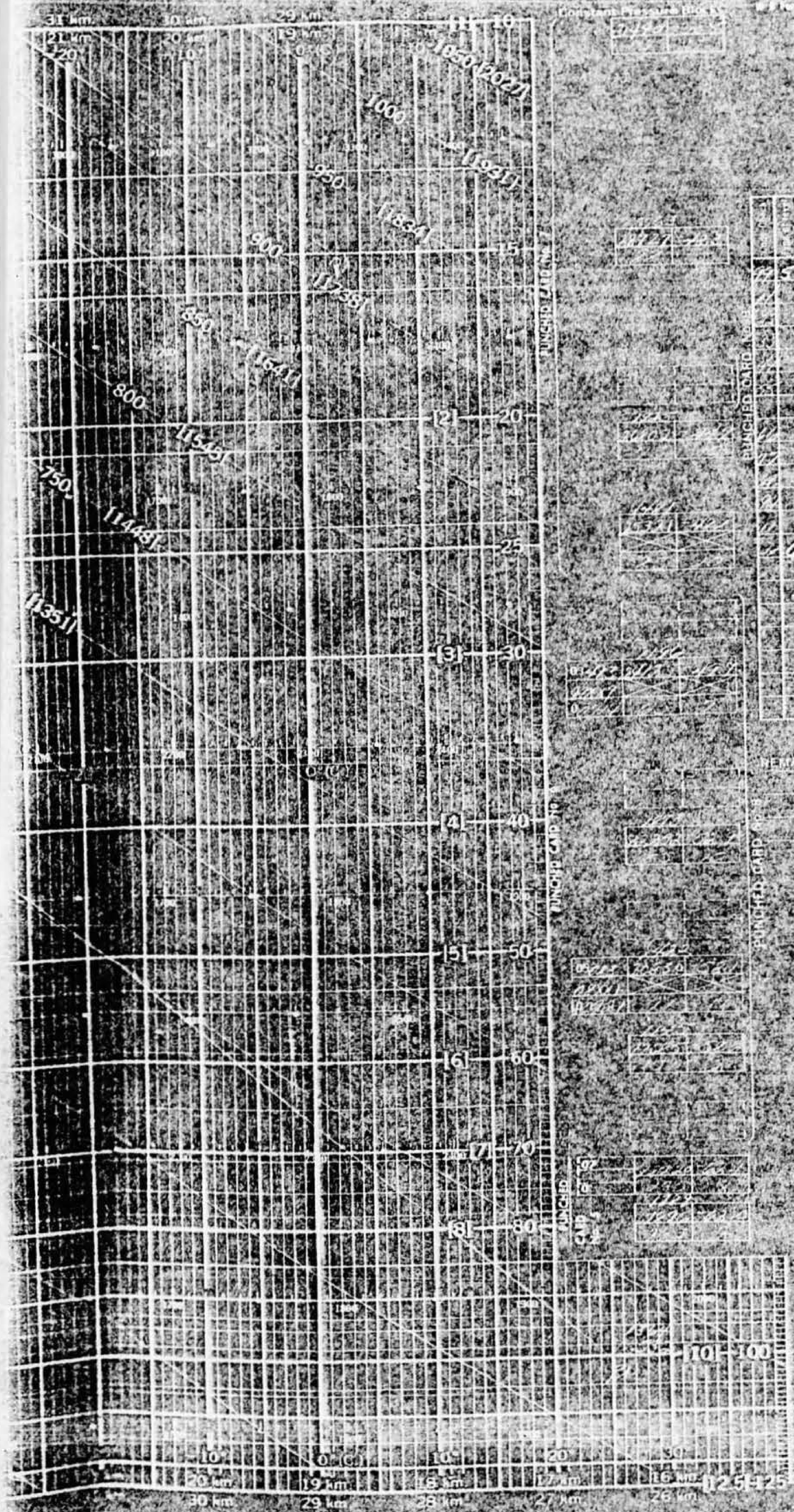


WBAN 31C

U.S. DEPARTMENT OF COMMERCE

WEATHER BUREAU

ADIABATIC CHART



DATA BLOCK C

			PRESSURE		TEMPERATURE			

REMARKS

LEGEND FOR CONSTANT PRESSURE BLOCKS

DATA AS TRANSMITTED	DATA AS ENTERED ON PUNCHED CARD	

LEGEND FOR PLOTTED CURVES

Inspected by

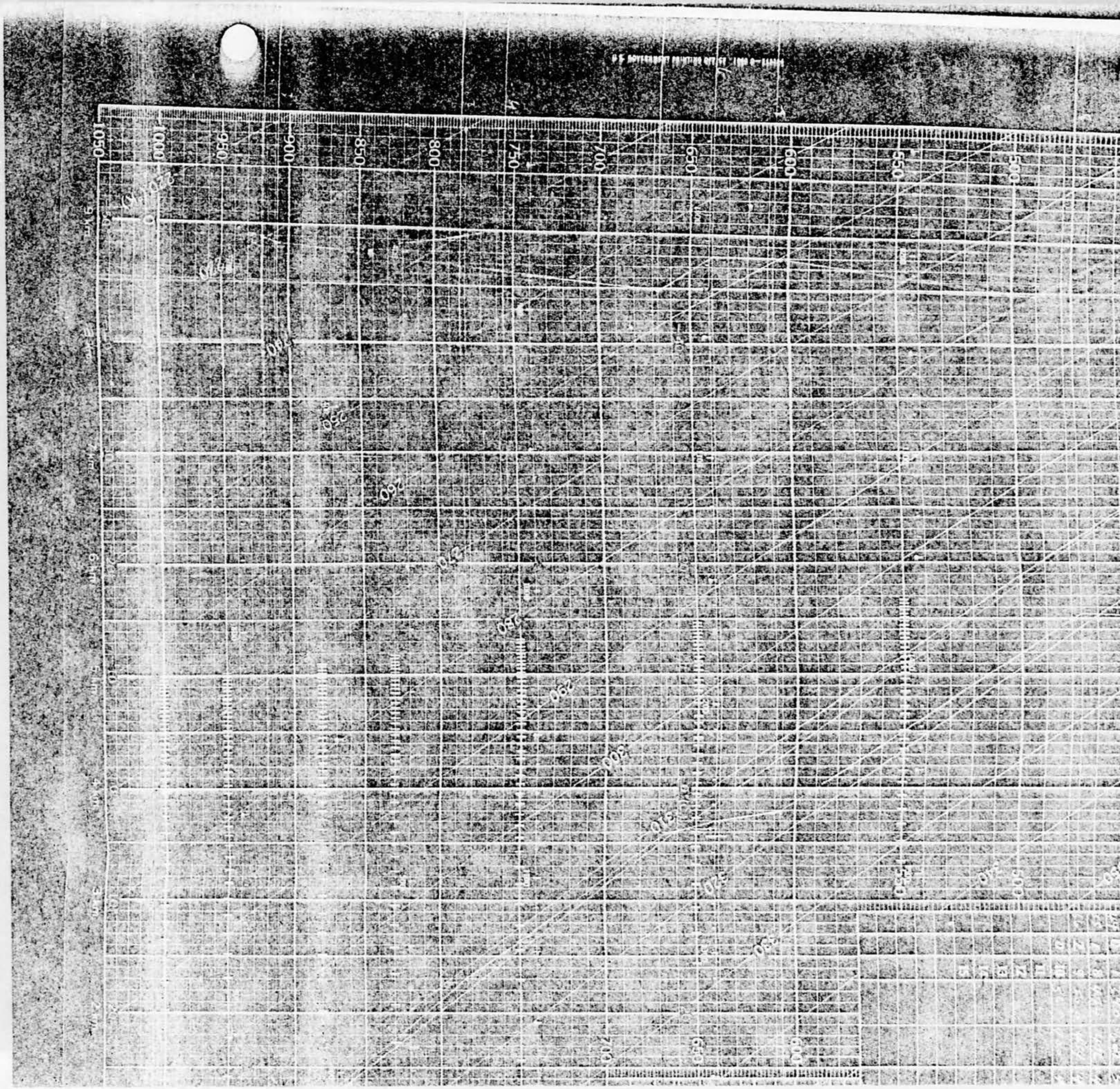
DATE AND RELEASE TIME

[illegible]	[illegible] JUNE	4	[illegible]

TUCSON, ARIZONA
(International Airport)

32° 07' N. 110° 56' W.

Prepared by the Coast and Geodetic Survey, Washington D.C.


1050
1000
950
900
850
800
750
700
650
600
550
500
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

BASELINE CHECK READINGS

CODED MESSAGE FOR TRANSMISSION

SURFACE OBSERVATION AT RELEASE

PRESSURE

CONTACT

TEMPERATURE

RELATIVE HUMIDITY

WIND

CLOUDS AND WEATHER

LEGEND FOR CONSTANT PRESSURE BLOCKS

LEGEND FOR PLOTTED CURVES

DATE AND RELEASE TIME

1960 JUN 4

1960 JUN 4

600

650

700

750

800

850

900

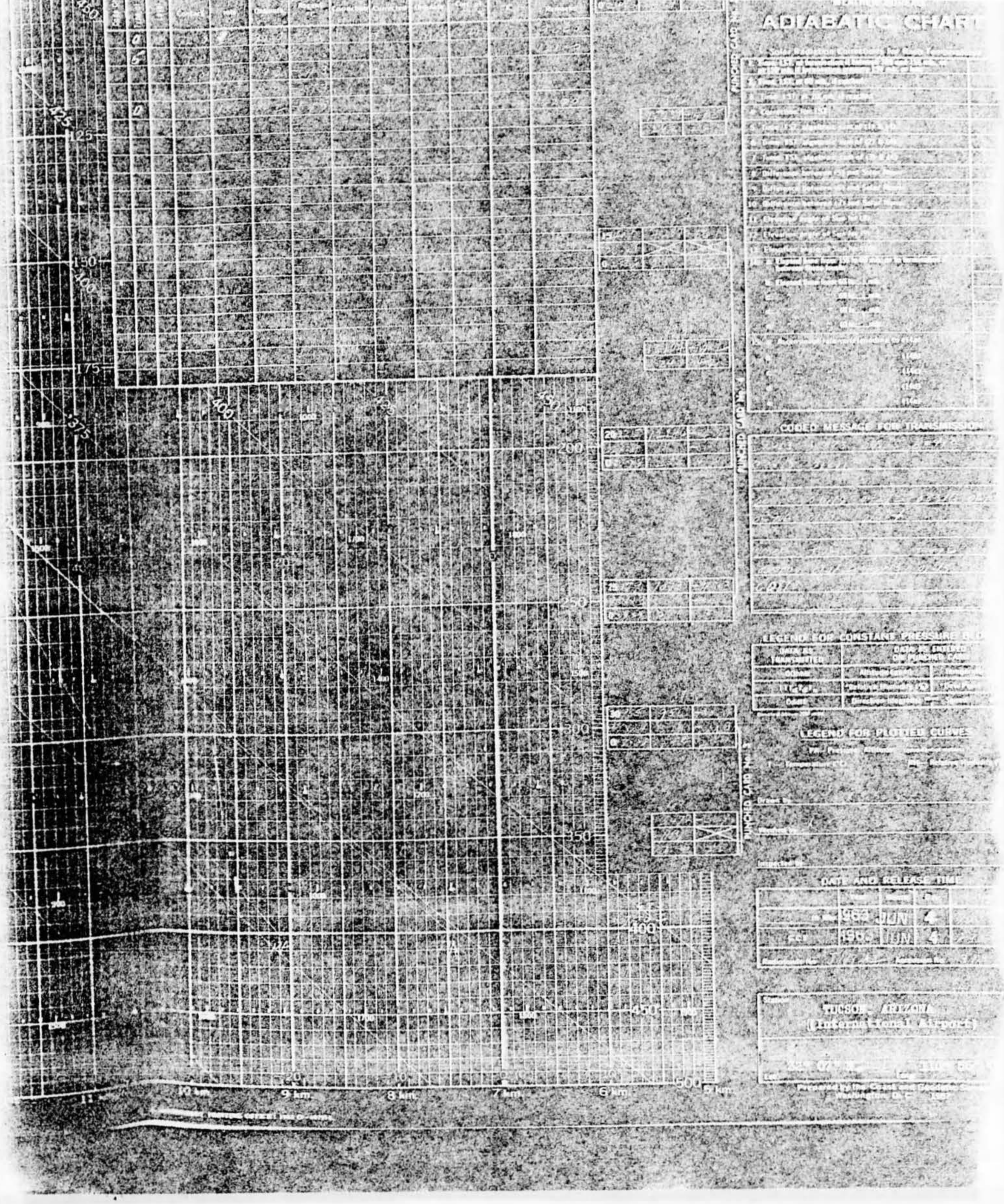
950

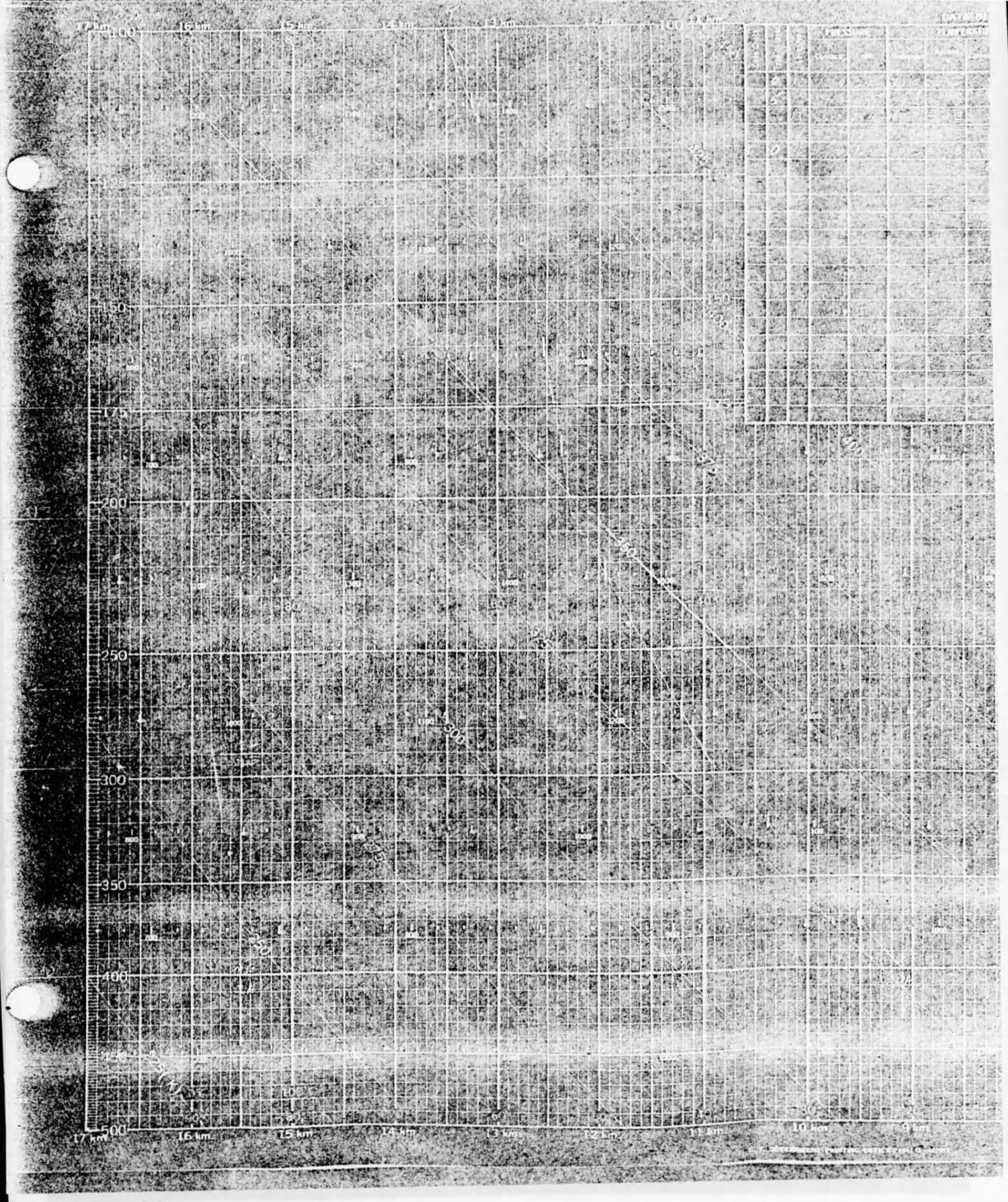
1000

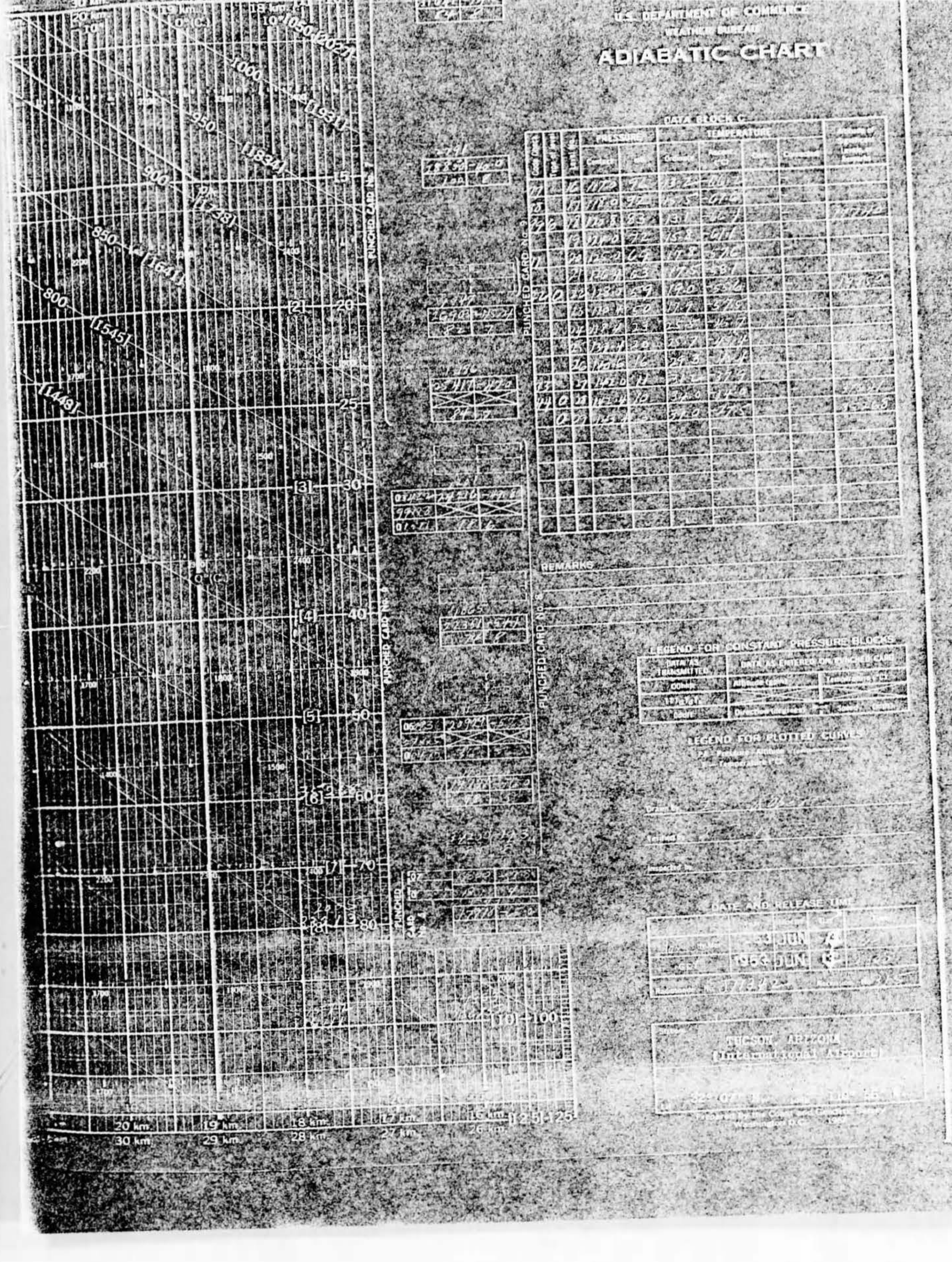
1050

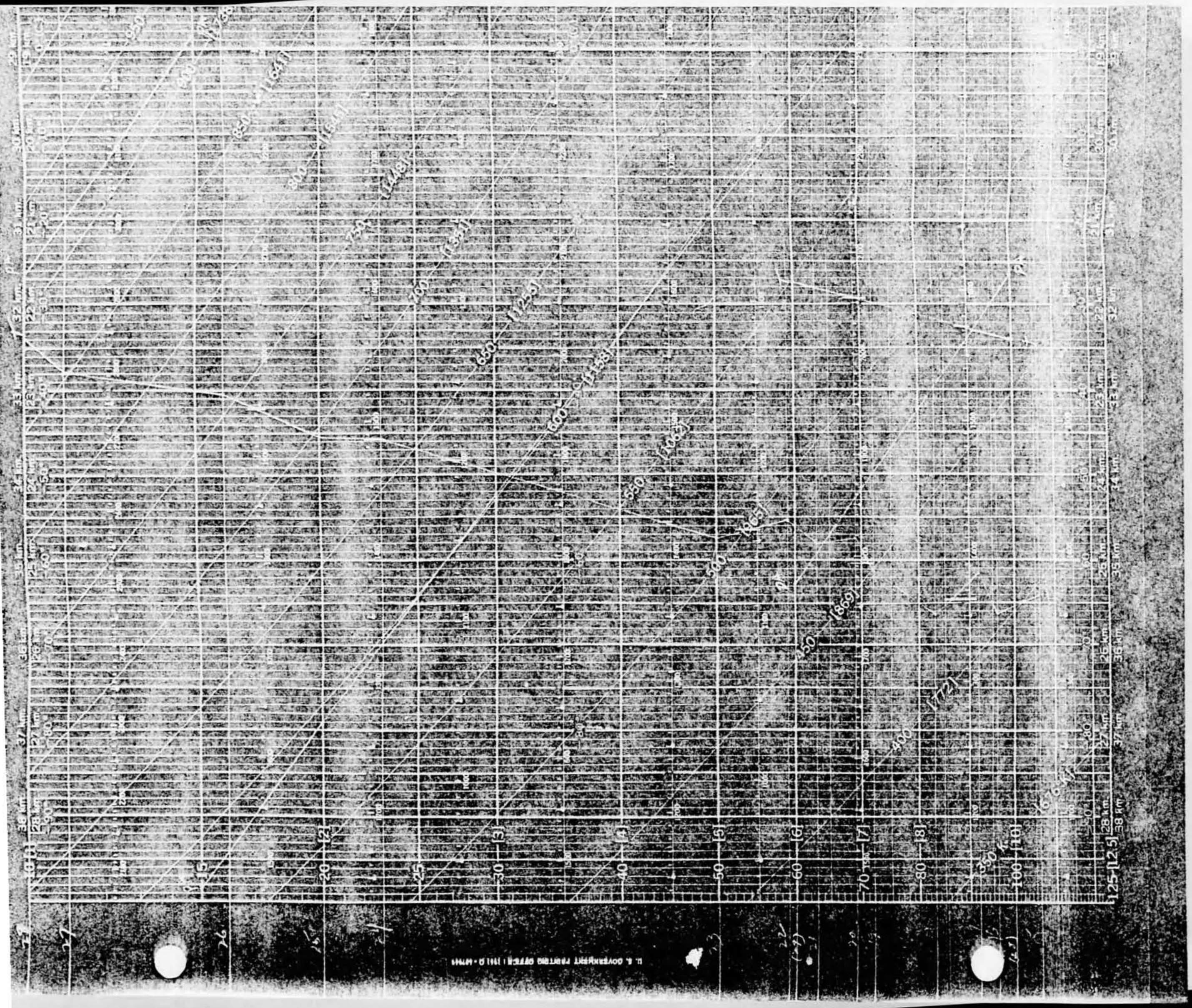
MSL

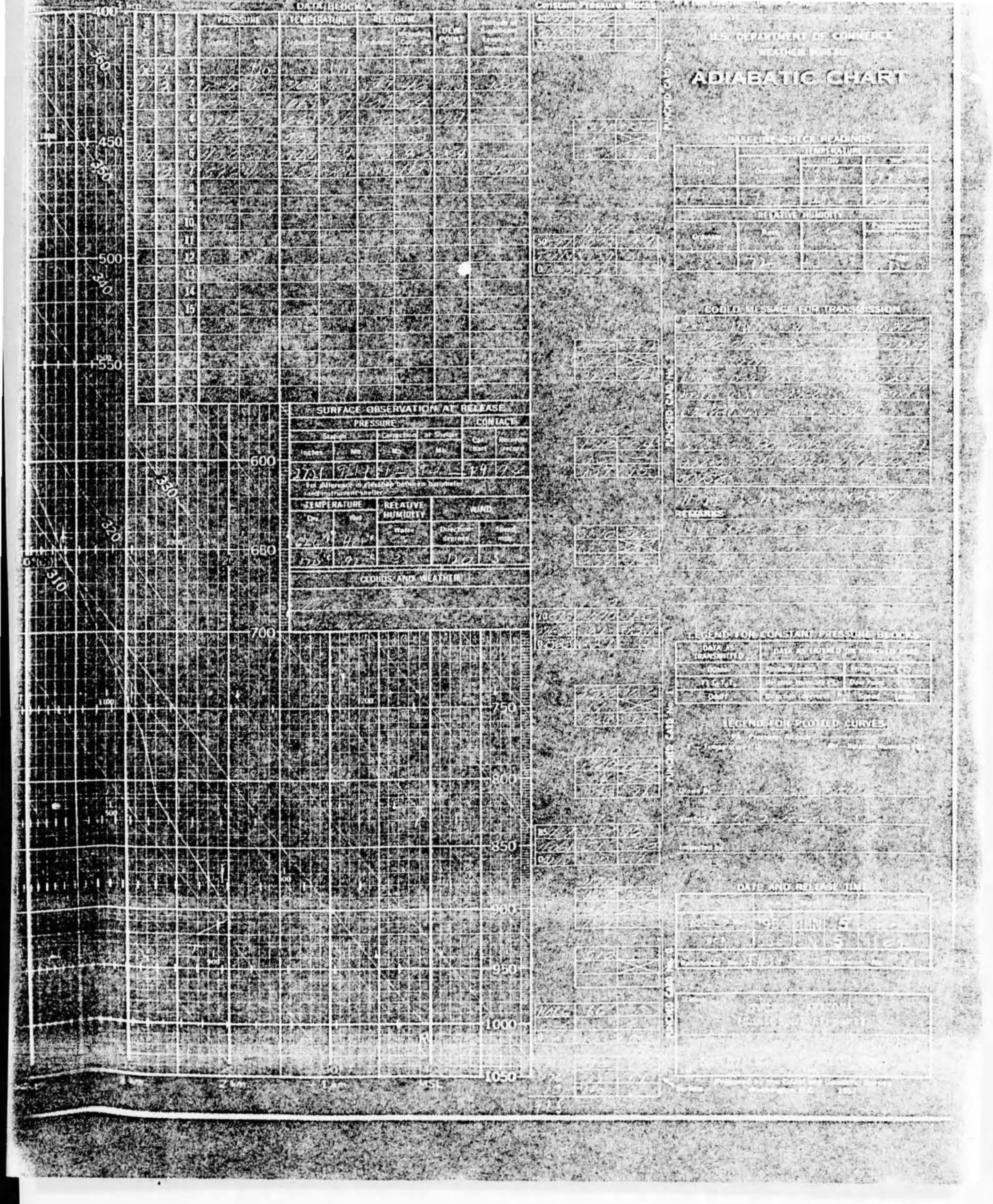
This case includes eighteen (18) 14" x 10" photocopied charts

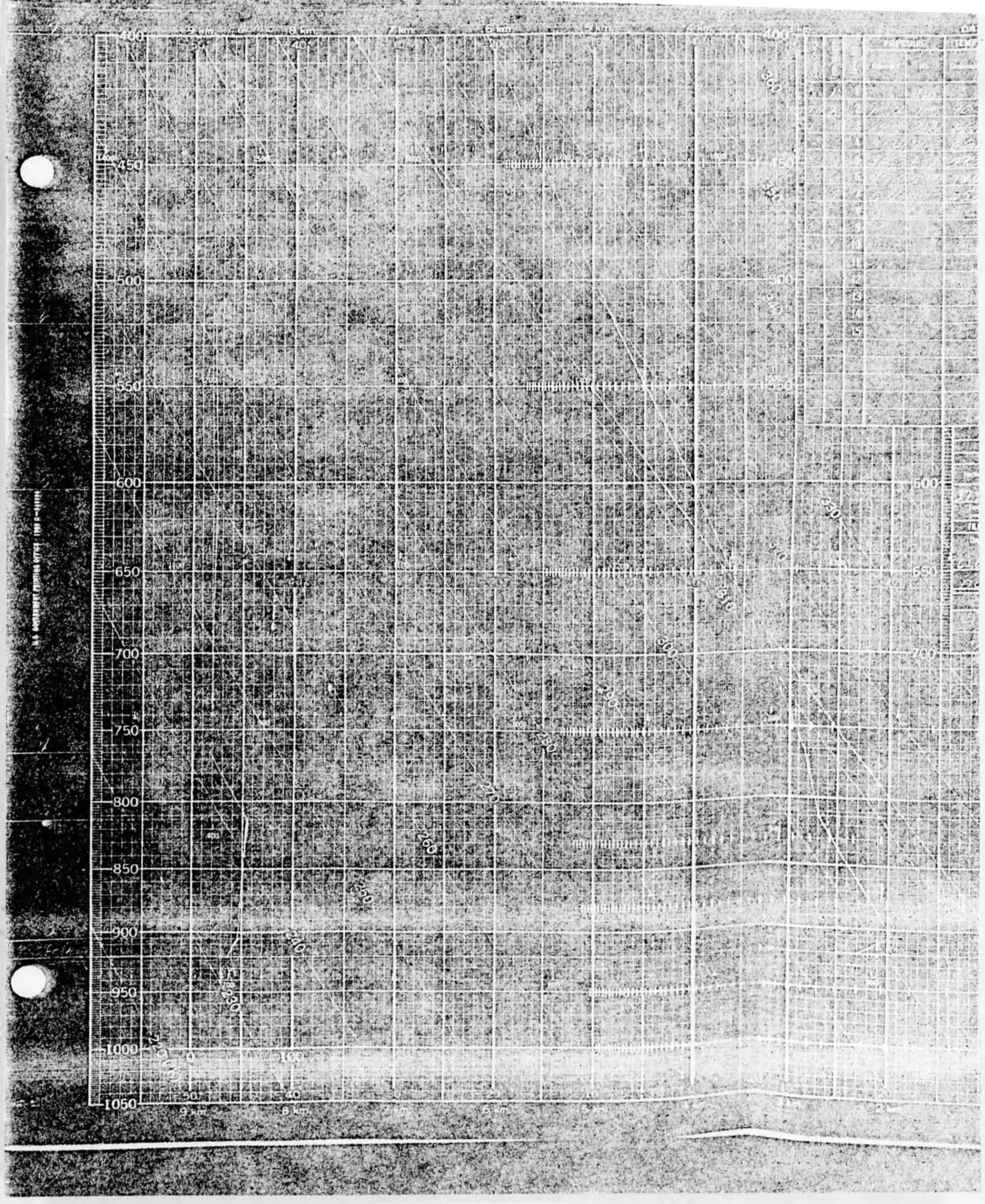

ADIABATIC CHART
CODED MESSAGE FOR TRANSMISSION
LEGEND FOR CONSTANT PRESSURE
LEGEND FOR PLOTTED CURVE
DATE AND RELEASE TIME
TUCSON ARIZONA
125
150
175
200
250
300
350
400
450
500
10 km
9 km
8 km
7 km
6 km
5 km

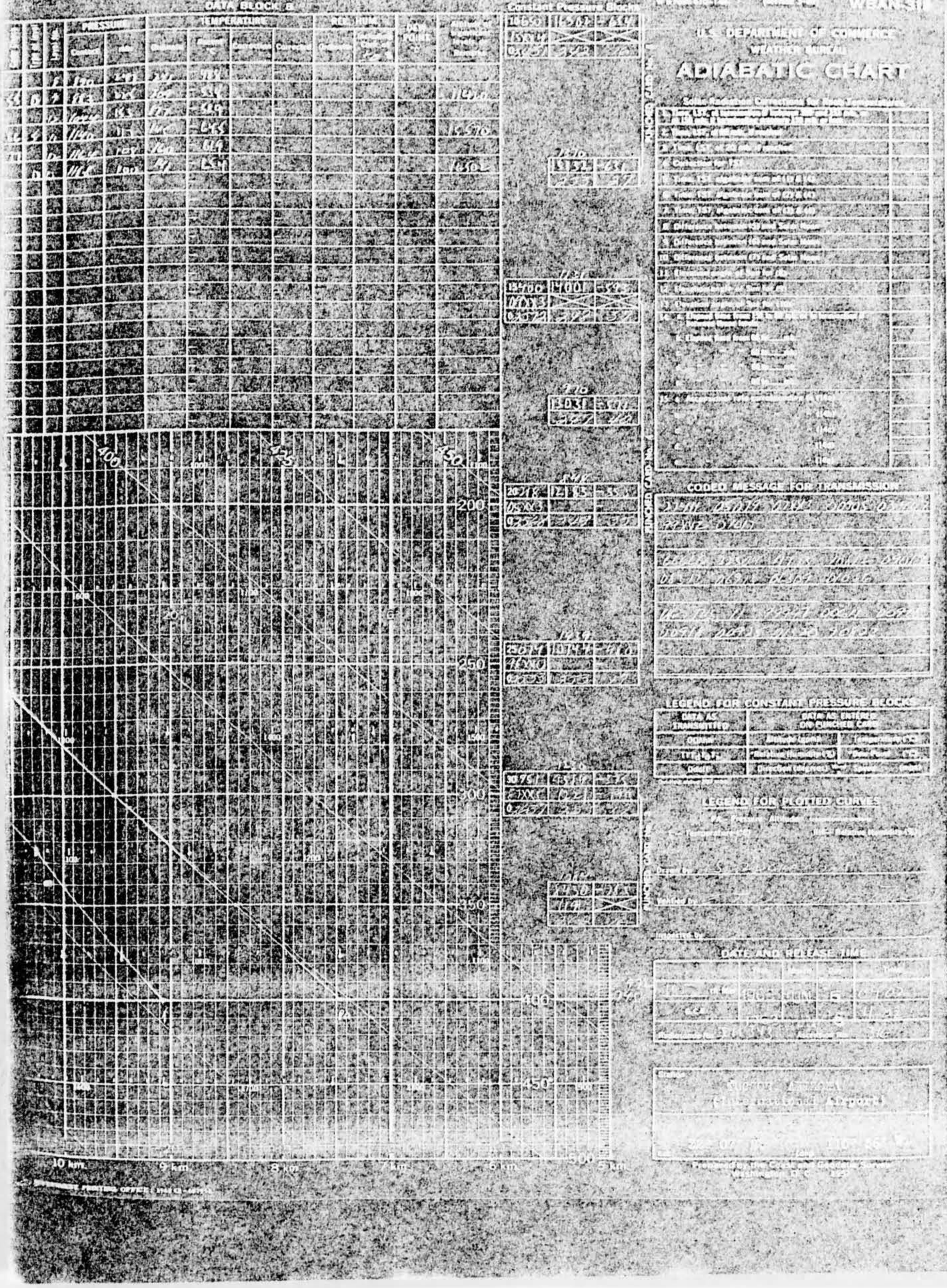

17 km
16 km
15 km
14 km
13 km
12 km
11 km
10 km
9 km
100
150
200
250
300
350
400
450
500

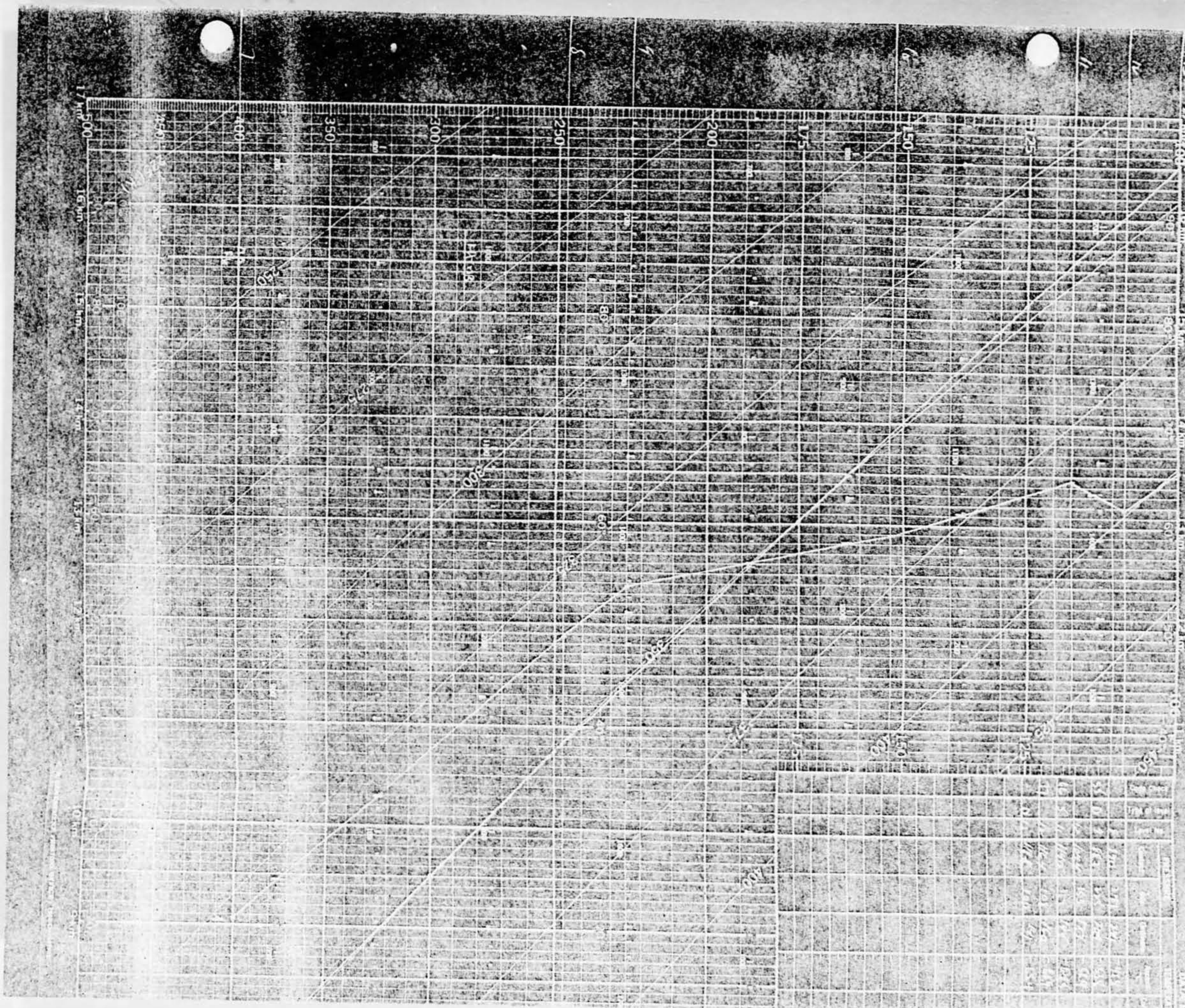

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
DATA BLOCK AC
PUNCHED CARD No. 1
PUNCHED CARD No. 2
PUNCHED CARD No. 3
PUNCHED CARD No. 4
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVE
DATE AND RELEASE TIME
TUCSON, ARIZONA
(Davis-Monthan Airport)
1000
950
900
850
800
1050
1000
950
900
850
800
20 km.
19 km.
18 km.
30 km.
29 km.
28 km.

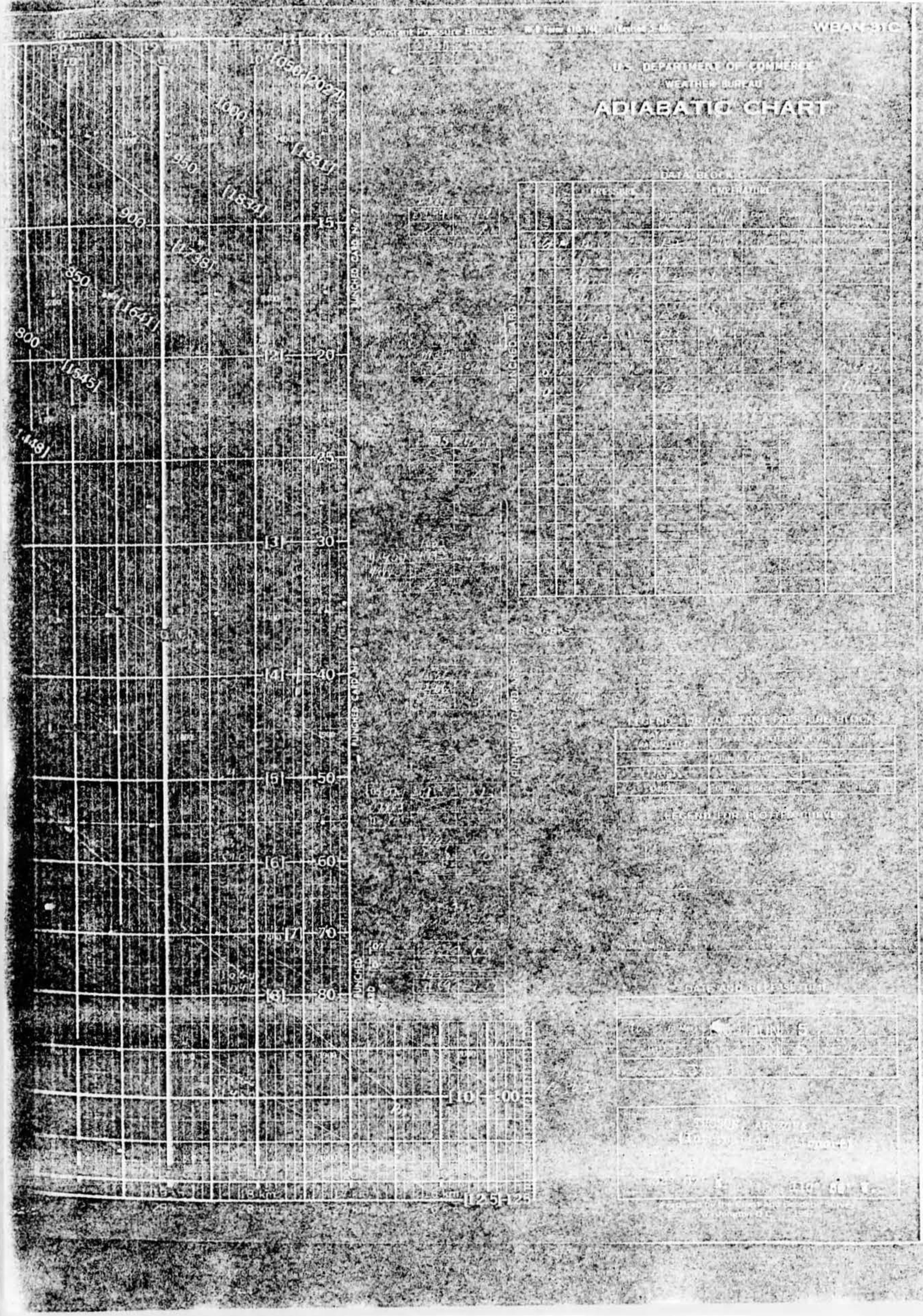

U. S. GOVERNMENT PRINTING OFFICE: 1910 O - 47445

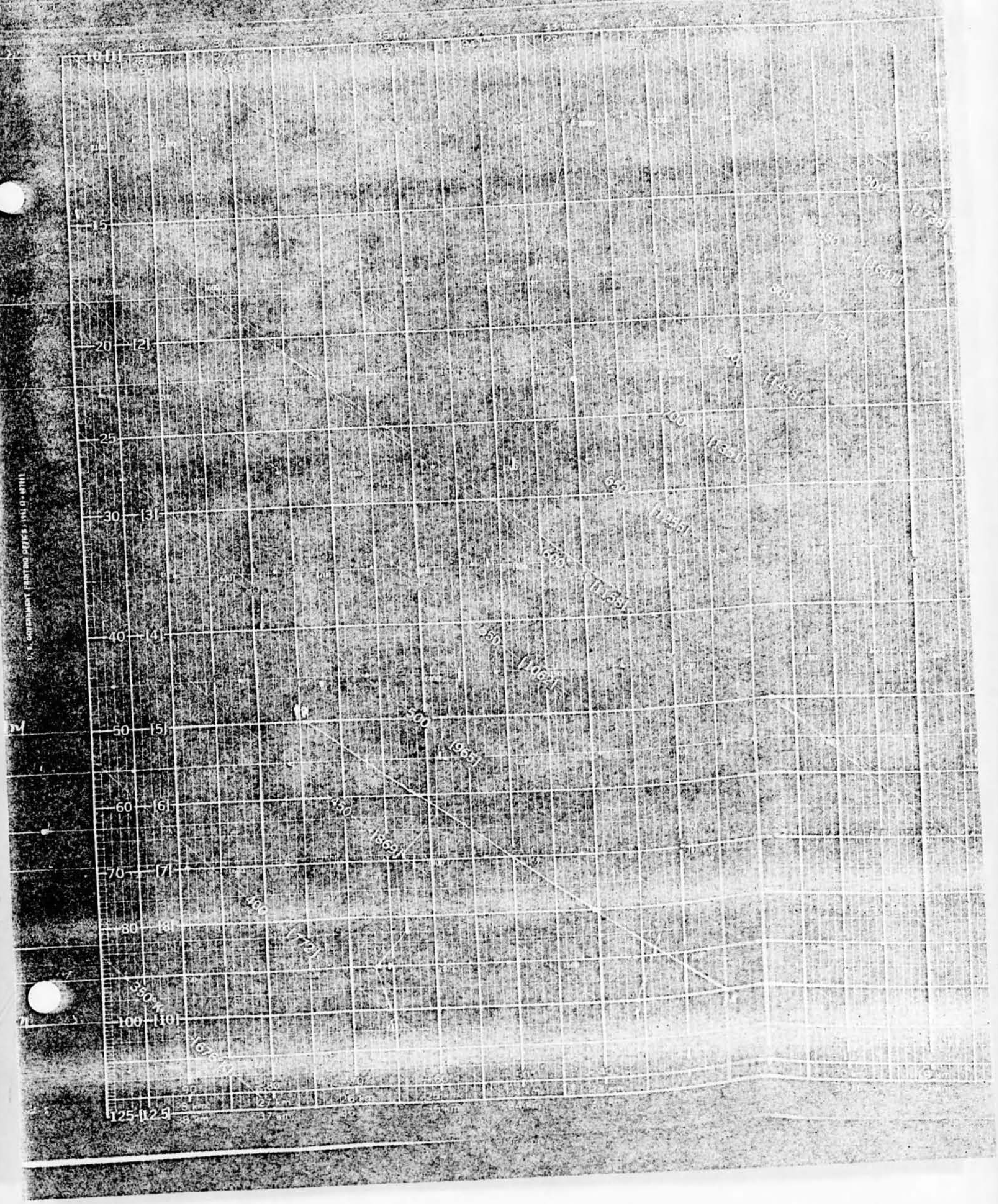

DATA BLOCK A
PRESSURE
TEMPERATURE
RELTHUM
DEW POINT
U.S. DEPARTMENT OF COMMERCE
ADIABATIC CHART
BASELINE CHECK READINGS
TEMPERATURE
RELATIVE HUMIDITY
CODED MESSAGE FOR TRANSMISSION
REMARKS
SURFACE OBSERVATION AT RELEASE
PRESSURE
CONTACT
TEMPERATURE
RELATIVE HUMIDITY
WIND
CLOUDS AND WEATHER
LEGEND FOR CONSTANT PRESSURE BLOCK
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
400
450
500
550
600
650
700
750
800
850
900
950
1000
1050
360
350
340
330
320
310


400
450
500
550
600
650
700
750
800
850
900
950
1000
1050
9 km
8 km
6 km


DATA BLOCK B
PRESSURE
TEMPERATURE
RELATIVE HUMIDITY
DEW POINT
CONSTANT PRESSURE BLOCK
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
400
450
500
550
600
650
700
750
800
850
900
950
1000
200
250
300
350
400
450
500
10 km
9 km
8 km
6 km
5 km


Transducer 10 mm
15 mm
20 mm
25 mm
30 mm
35 mm
40 mm
45 mm
50 mm
60
70
80
90
100
125
150
175
200
250
300
350
400
500
1/mm
16 mm
15 mm
14 mm
13 mm


WBAN-31C
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
DATA BLOCK
PRESSURE
TEMPERATURE
INCHES OF MERCURY
INCHES OF WATER
1050 (2027)
1000
(1931)
950
(1854)
900
(1798)
850
(1641)
800
(1545)
(1448)
15
20
25
30
40
50
60
70
80
100
125
124



10 [1]
15
20 [2]
25
30 [3]
40 [4]
50 [5]
60 [6]
70 [7]
80 [8]
100 [10]
125 [12.5]
350°K
(676)
400
(772)
450
(869)
500
(965)
550
(1062)
600
(1158)
650
(1255)
700
(1351)
750
(1448)
800
(1545)
850
(1641)
900
(1738)

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

INCOMING

AF IN : 53868 (11 Jun 63)

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.

WBAN STA

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

DATA BLOCK A

	Temperature	Relative humidity	Dew point	Mixing ratio
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Constant Pressure Blocks

SURFACE OBSERVATION AT RELEASE

PRESSURE				CONTACT	
Station		Correction*	at Shelter		
Inches	Mb.	Mb.	Mb.	Code	Reported record
27.08	917.0	-1.2	915.8	9.2	9.0

*For difference in elevation between barometer and instrument shelter

TEMPERATURE		RELATIVE HUMIDITY	WIND	
Dry	Wet	Water	Direction degrees	Speed mph
91.5	57.6			
3.1				

CLOUDS AND WEATHER

BASELINE CHECK READINGS

TEMPERATURE			
Ice	Ordinate		
23.0	77.2	30.0	20.0

RELATIVE HUMIDITY			
Ordinate	Dew		
85	75	71	57

CODED MESSAGE FOR TRANSMISSION

LEGEND FOR CONSTANT PRESSURE BLOCKS

DATA AS TRANSMITTED	DATA AS ENTERED ON PUNCHED CARD	
Code	Value	Punch
1		
Code	Direction degrees	

LEGEND FOR PLOTTED CURVES

DATE AND RELEASE TIME

Year	Month	Day	Hour
1	10	11	5

Washington, D.C.

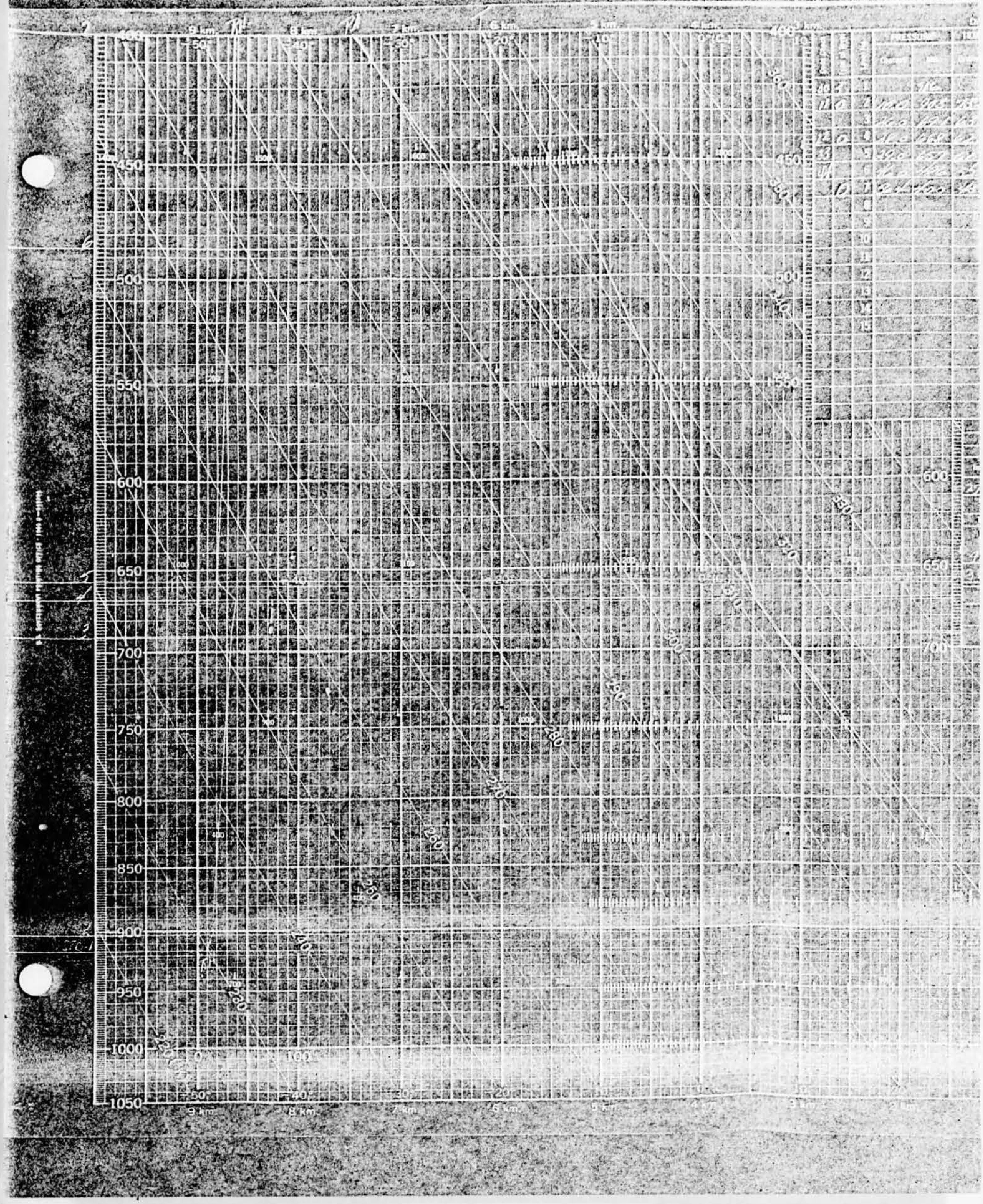
PUNCHED CARD No. 1

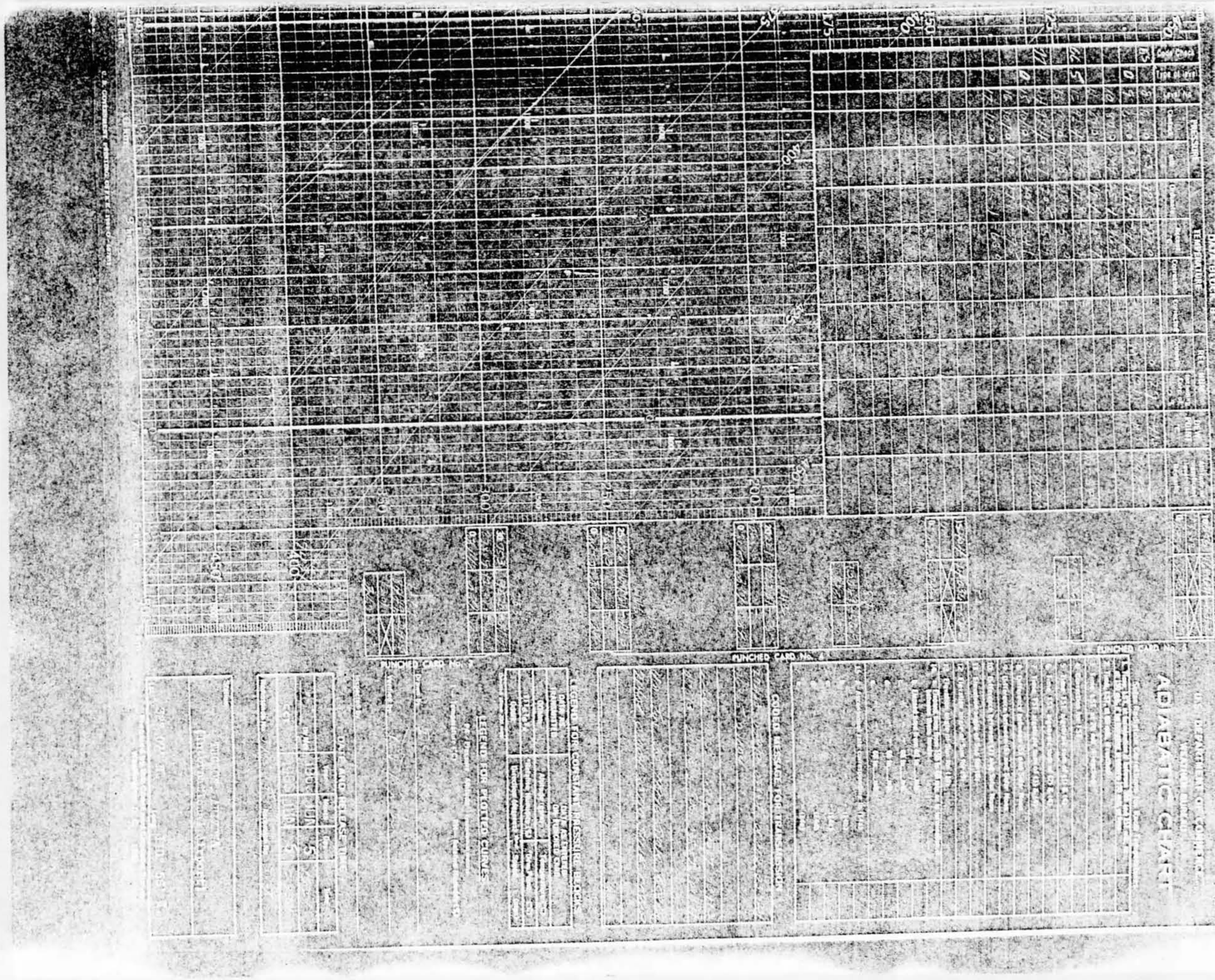
PUNCHED CARD No. 2

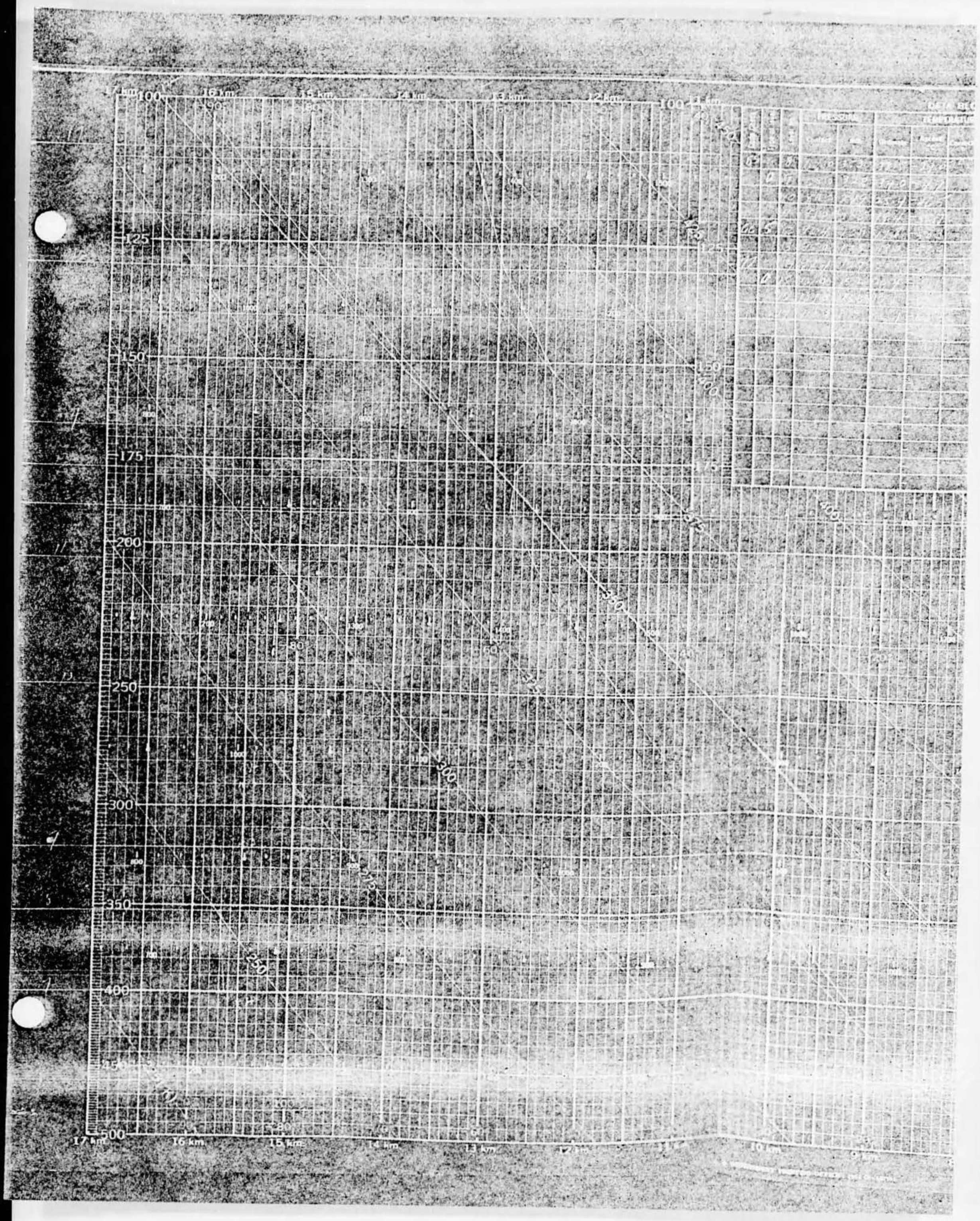
330 320 300 310 290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10

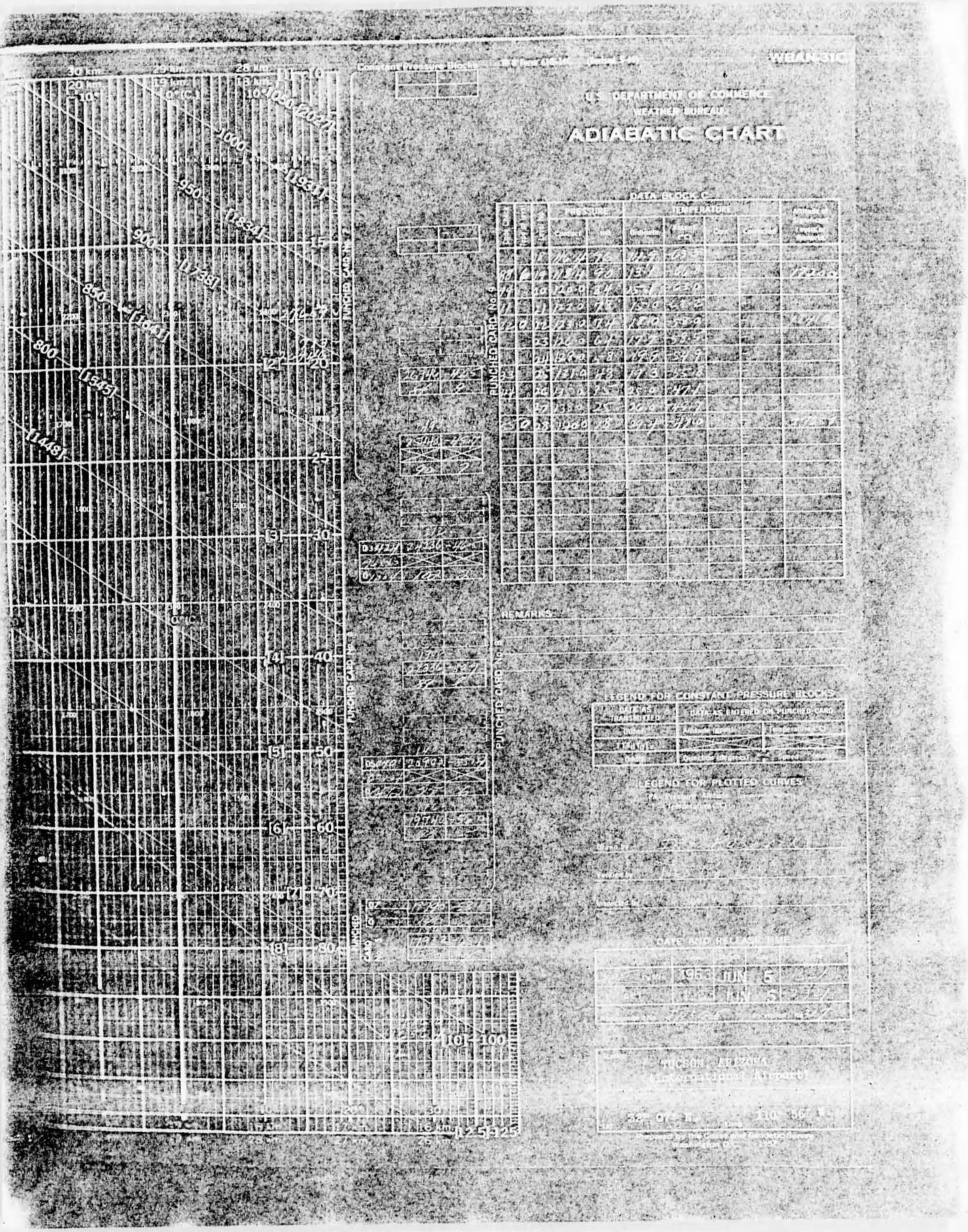
600 650 700 750 800 850 900 950 1000 1050

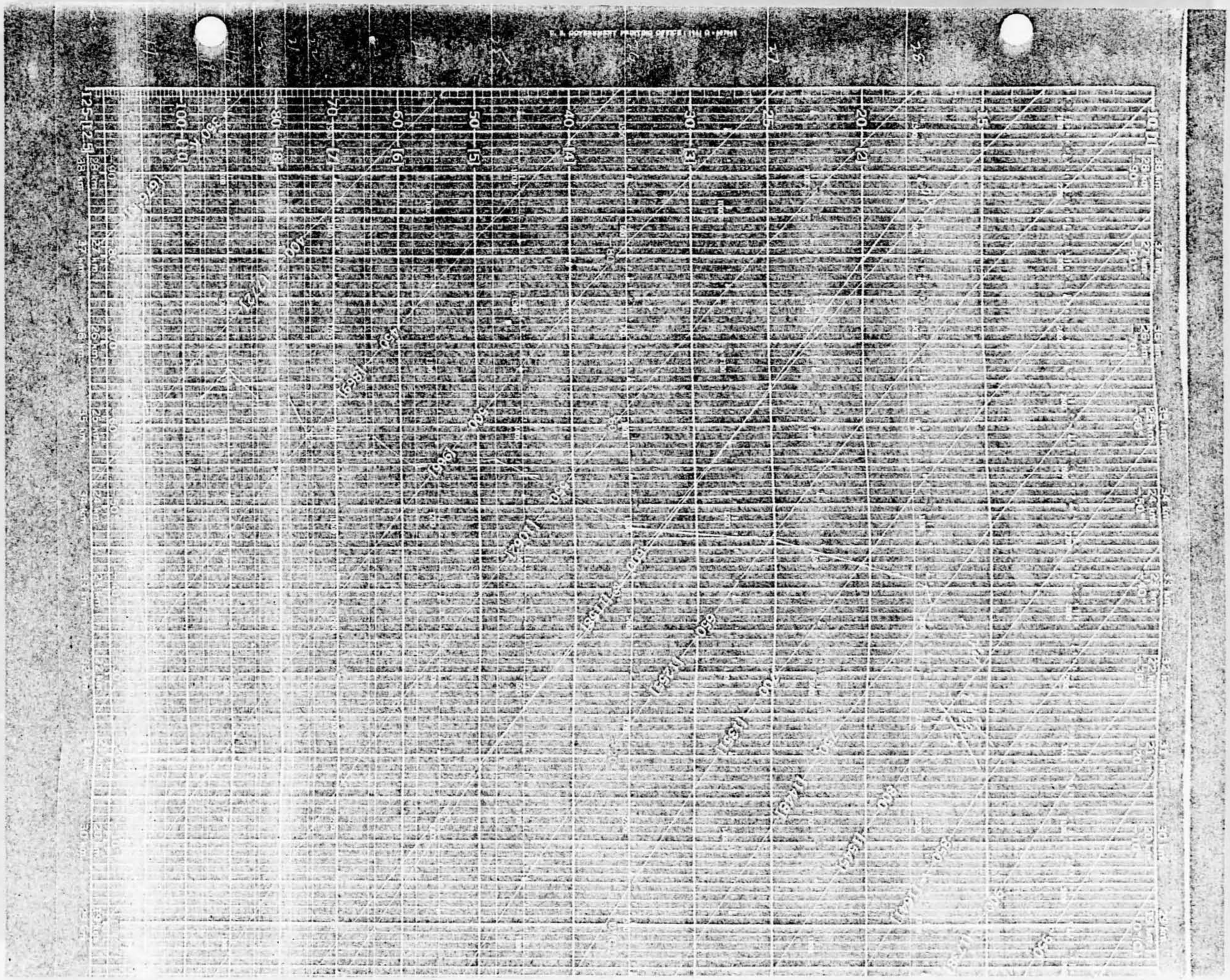
3 km 2 km 1 km MSL


9 km
8 km
7 km
6 km
5 km
4 km
3 km
2 km
50°
40°
30°
20°
10°
0
100
400
450
500
550
600
650
700
750
800
850
900
950
1000
1050
360
350
340
330
320
310
300
290
280
270
260
250
240
230
220


AD/AEA/IIC CHART
PUNCHED CARD INPUT
PUNCHED CARD INPUT
PUNCHED CARD INPUT
CODED LIBRARY FOR TRAINING PURPOSES
A GRAND FOR CONSTANT PRESSURE BEARING
REFERED FOR FLOATING CURVE
ONE AND HALF SECTION
SQ. NO. 1 AB BLOCK


100
125
150
175
200
250
300
350
400
500
17 km
16 km
15 km
14 km
13 km
10 km

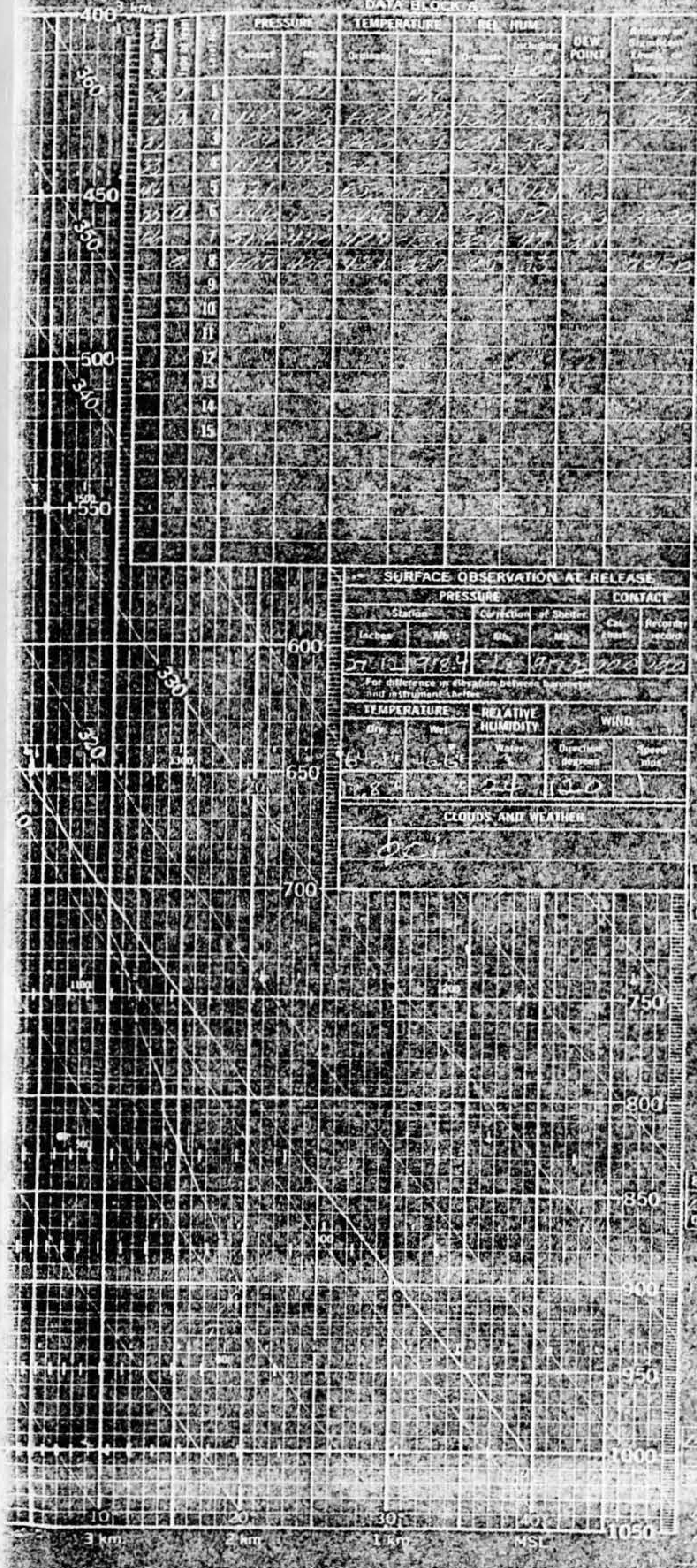

WBAN-31C
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
Constant Pressure Blocks
DATA BLOCK C
PRESSURE
TEMPERATURE
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
1953 JUN 6
TUCSON, ARIZONA
PUNCHED CARD
30 km
20 km
10
0°C
1000
950
900
850
800
(1931)
(1834)
(1381)
(1051)
(1545)
(1448)
12
20
30
40
50
60
70
80
100
125



WBAN-31A

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART



DATA BLOCK A

PRESSURE	TEMPERATURE	REL. HUM.	DEW POINT
[illegible]	[illegible]	[illegible]	[illegible]

SURFACE OBSERVATION AT RELEASE

PRESSURE Station Inches	Mb	Correction of Shelter	CONTACT
[illegible]	[illegible]	[illegible]	[illegible]

TEMPERATURE Dry	Wet	RELATIVE HUMIDITY	WIND Direction Degrees	Speed mps
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CLOUDS AND WEATHER

BASELINE CHECK READINGS

		TEMPERATURE	
1053	[illegible]	[illegible]	[illegible]

RELATIVE HUMIDITY

Ordinate			
81	68	[illegible]	[illegible]

CODED MESSAGE FOR TRANSMISSION

REMARKS

LEGEND FOR CONSTANT PRESSURE BLOCKS

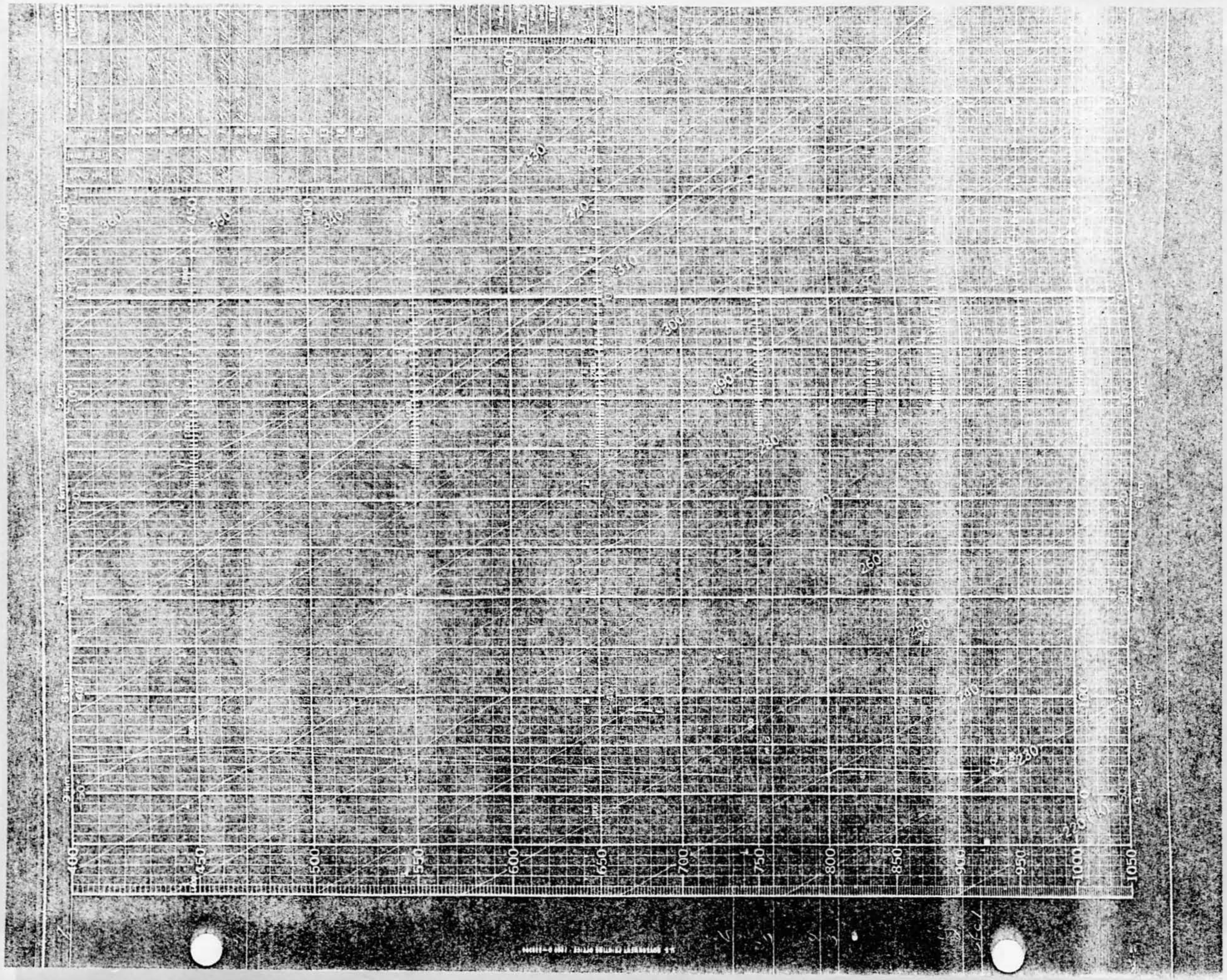
LEGEND FOR PLOTTED CURVES

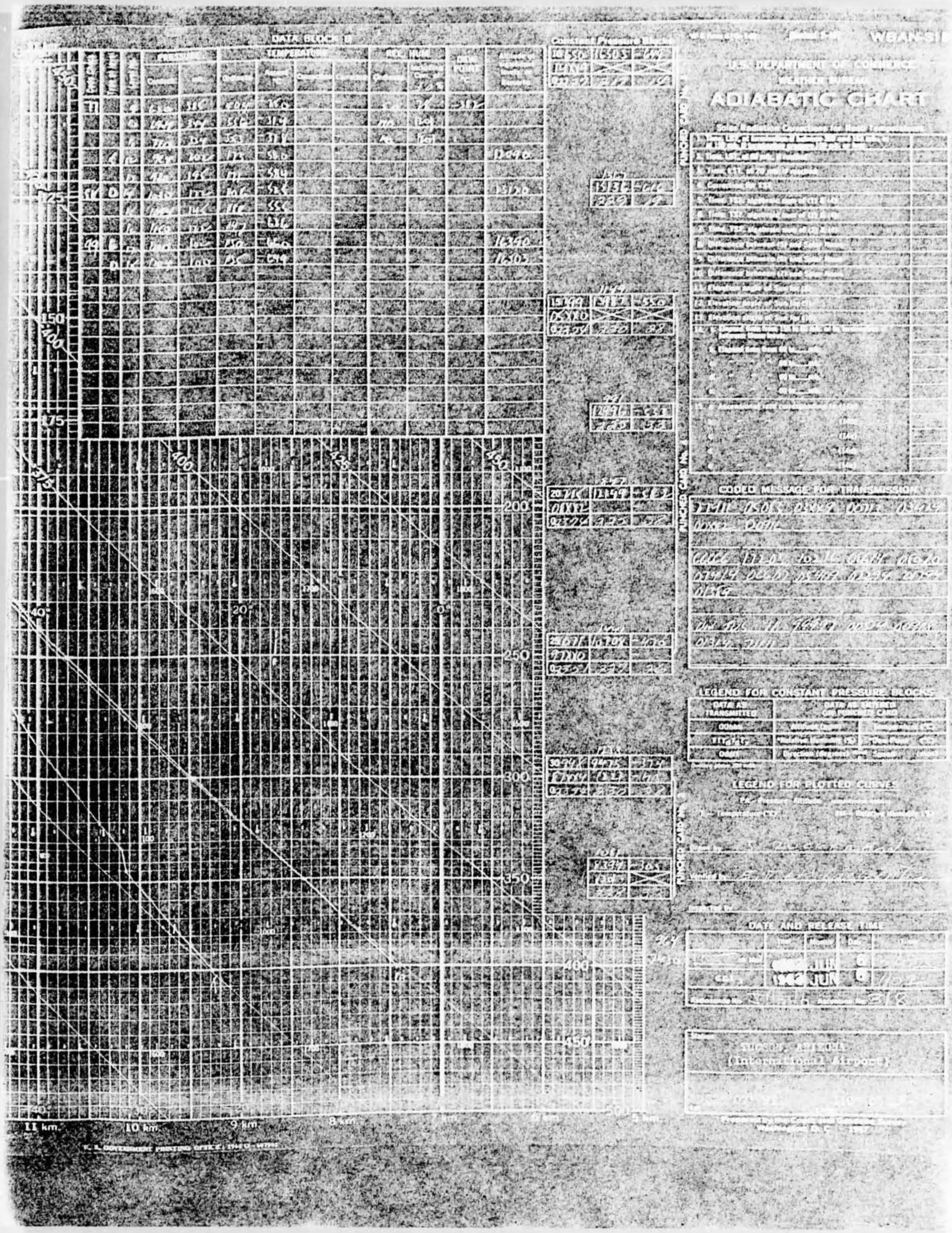
DATE AND RELEASE TIME

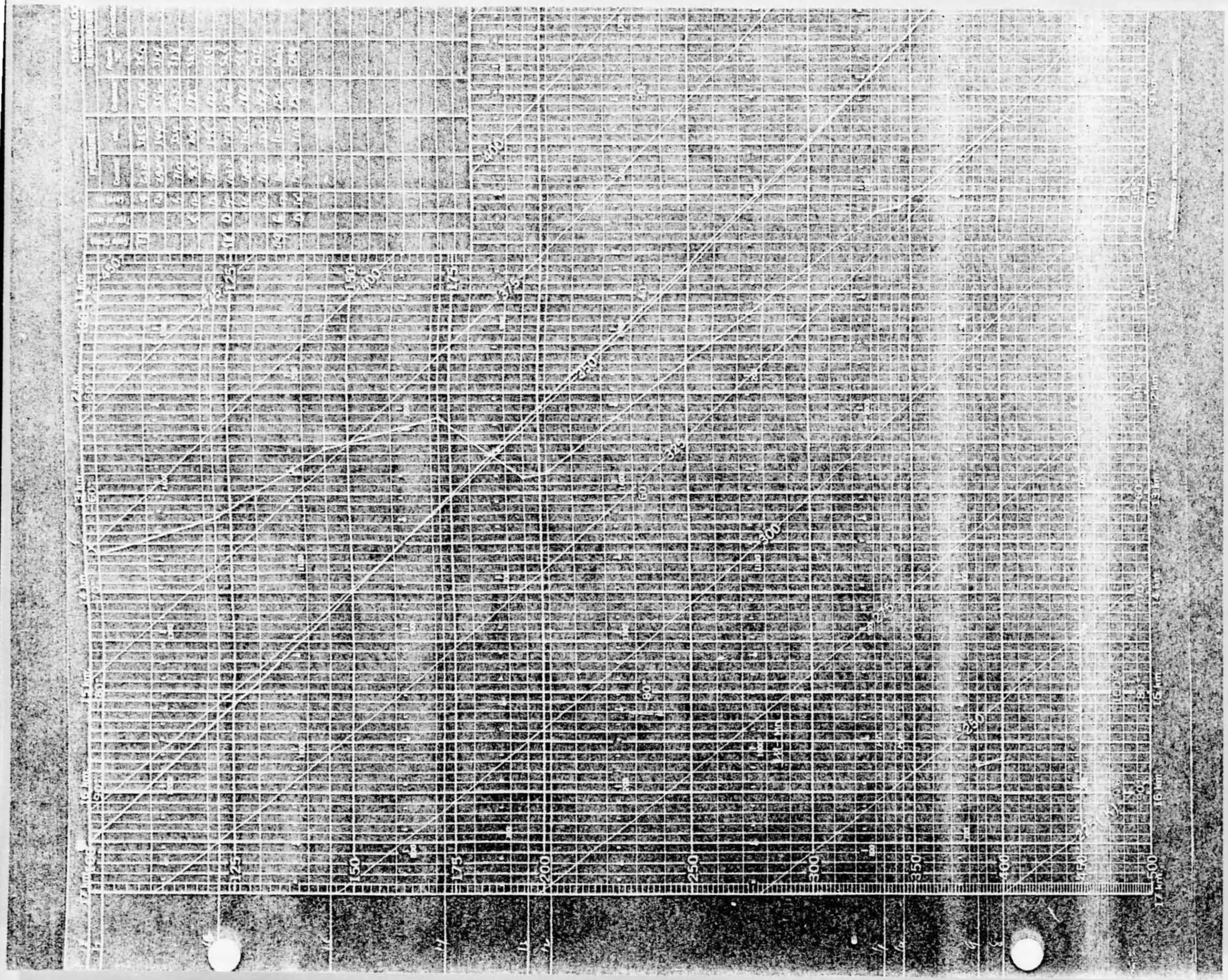
	1964	JUN	6	[illegible]
	1964	JUN	6	7/22

Station
TUCSON, ARIZ.
32° 07' N
110° 56' W

Prepared by the Coast and Geodetic Survey
Washington, D.C. 1957


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
-50
-40
-30
-20
-10
0
10
20
30
320
310
300
290
280
270
260
250
240
230
220


DATA BLOCK B
WEATHER
ADIABATIC CHART
CODED MESSAGE FOR TRANSMISSION
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
150
175
200
250
300
350
400
450
11 km.
10 km.
9 km.
8 km.



DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

INCOMING

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

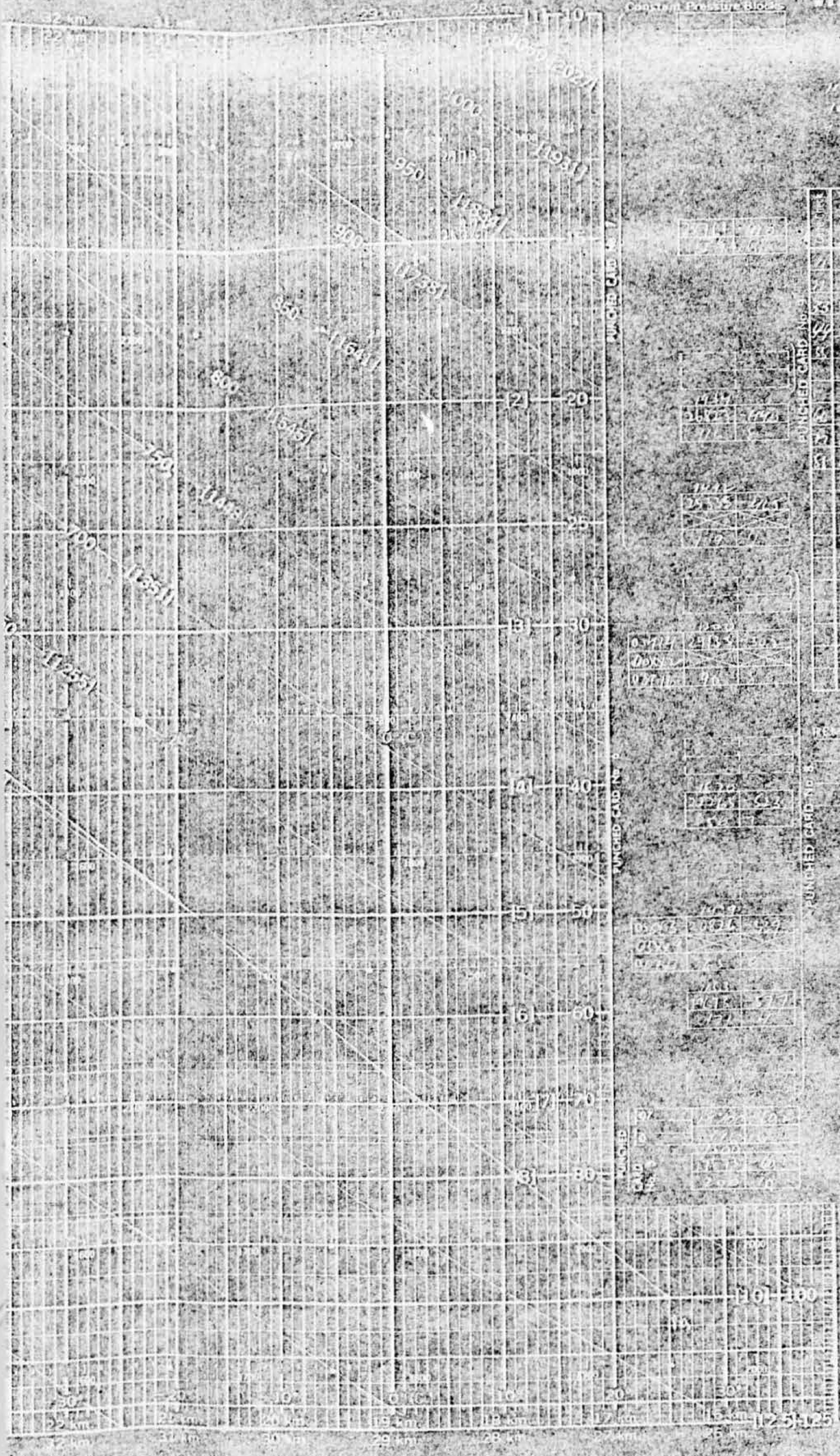
UNCLAS PT-OTA 2639.

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

Constant Pressure Blocks W.B. Form 610-11C (Revised 5-40) **WBAN-31C**

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART



DATA BLOCK C

			PRESSURE		TEMPERATURE				Altitude of Significant Levels or Remarks
			[illegible]	[illegible]	Ordinate	Actual	Corr.	Corrected	
[illegible]		[illegible]	[illegible]	56	[illegible]	[illegible]			
[illegible]		[illegible]	[illegible]	56	[illegible]	65			
53		[illegible]	[illegible]	[illegible]	[illegible]	63			
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	59			
[illegible]		[illegible]	[illegible]	54	[illegible]	[illegible]			
[illegible]		[illegible]	[illegible]	50	[illegible]	39			
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	40			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			27737

PUNCHED CARD No. 3

REMARKS

LEGEND FOR CONSTANT PRESSURE BLOCKS

DATA AS TRANSMITTED	DATA AS ENTERED ON PUNCHED CARD	
[illegible]	Altitude (gpm)	Temperature (°C)
[illegible]		
[illegible]	[illegible]	[illegible]

LEGEND FOR PLOTTED CURVES

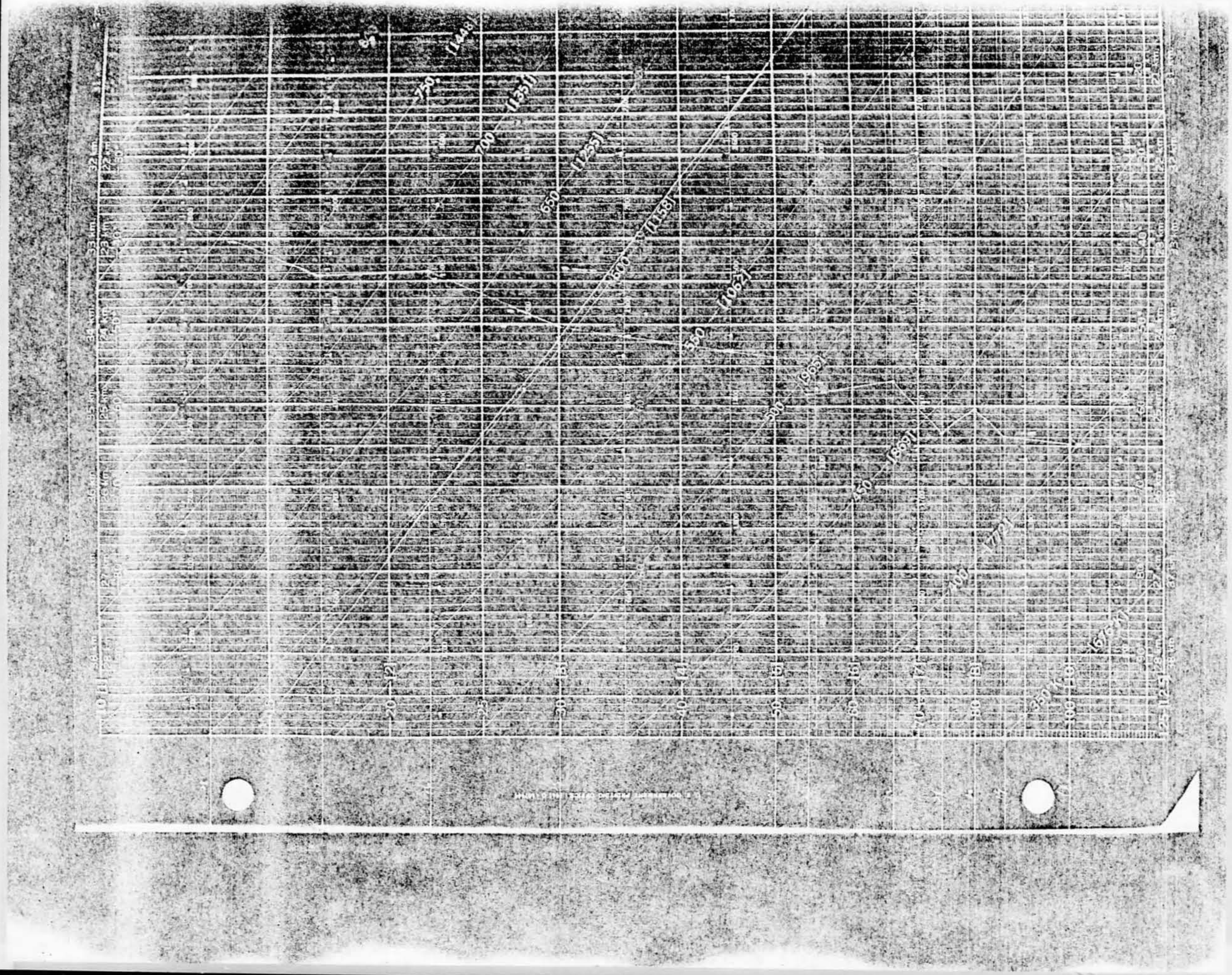
DATE AND RELEASE TIME

[illegible]	1957 JUN	6	[illegible]	
[illegible]	1957 JUN	6	[illegible]	

TUCSON, ARIZONA
(International Airport)

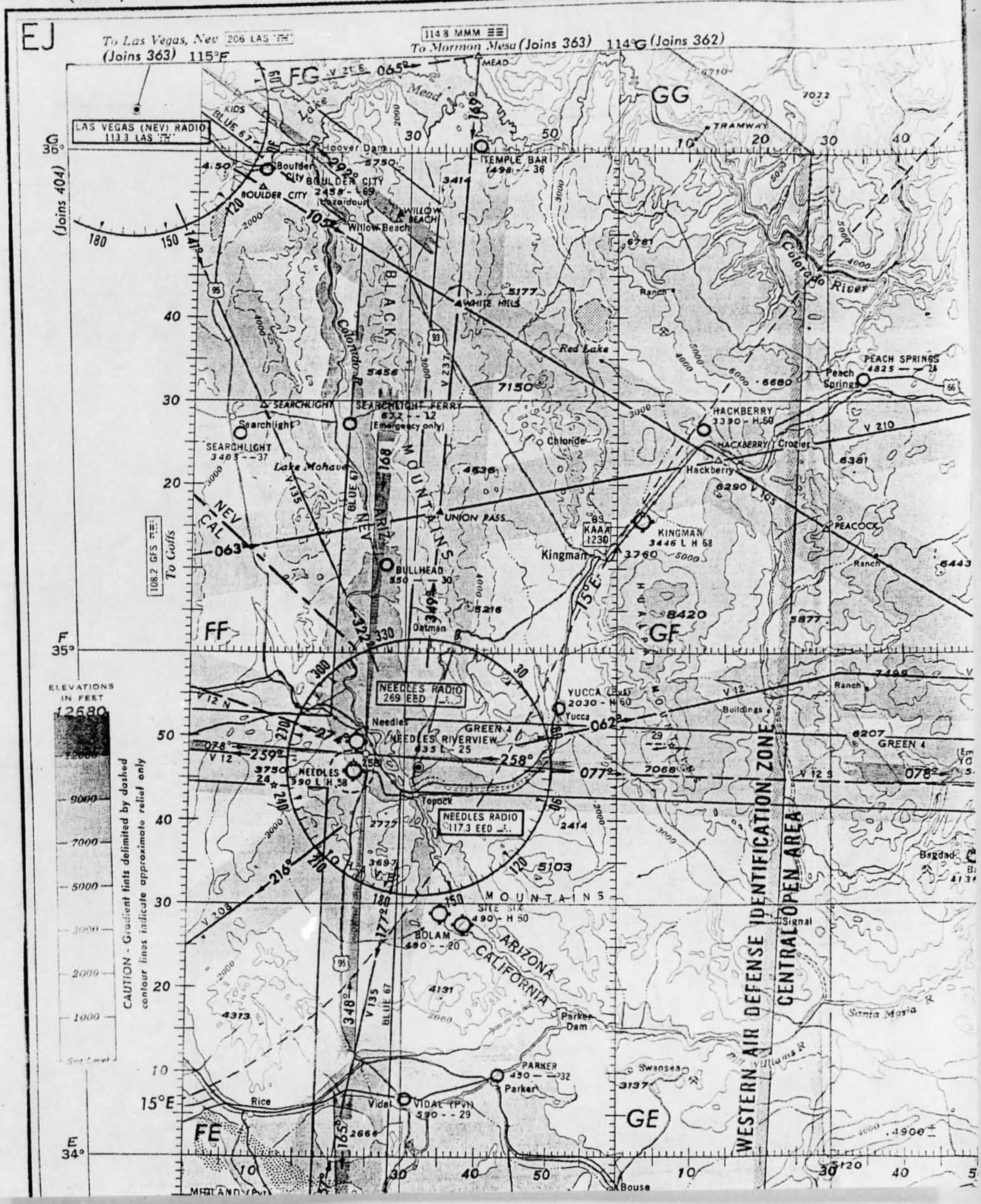
32° 07' N. 110° 56' W.

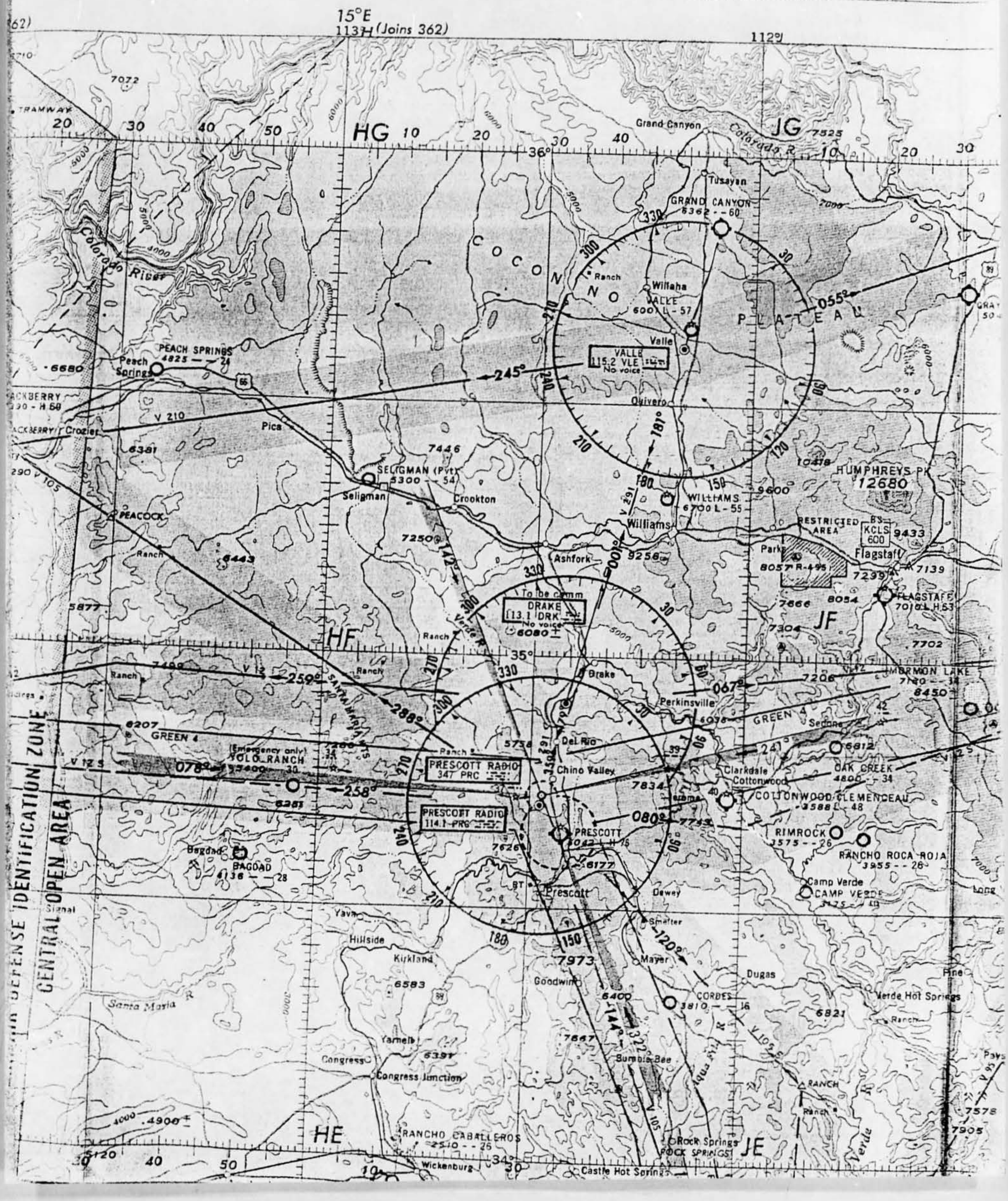
Prepared by the Coast and Geodetic Survey
Washington D.C. 1957


750
(1448)
700
(1351)
650
(1255)
600
(1158)
550
(1062)
500
(965)
450
(868)

(405) GILA RIVER

ELEVATIONS




15°E
113H (Joins 362)
112J
HG
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HF
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HE
JE
Grand Canyon
Colorado R.
Tusayan
GRAND CANYON
6362 - - 60
COCONINO
PLATEAU
Ranch
Williams
VALLE
600 L - 57
Valle
VALLE
115.2 VLE
No voice
Quivero
PEACH SPRINGS
4825 - - 24
Peach Springs
Pica
Crozier
SELIGMAN (Pvt)
5300 - - 54
Seligman
Crookton
WILLIAMS
6700 L - 55
HUMPHREYS PK
12680
RESTRICTED AREA
KCLS
600
Flagstaff
Parks
R-495
FLAGSTAFF
7010 L H 53
Ashfork
To be comm
DRAKE
113.1 DRK
No voice
Drake
Perkinsville
Sedona
GREEN 4
MORMON LAKE
Del Rio
Chino Valley
PRESCOTT RADIO
347 PRC
PRESCOTT RADIO
114.1 PRC
Clarkdale
Cottonwood
OAK CREEK
4800 - - 34
COTTONWOOD CLEMENCEAU
3588 L - 48
RIMROCK
3575 - - 26
RANCHO ROCA ROJA
3955 - - 26
Camp Verde
CAMP VERDE
Prescott
Dewey
Smelter
Mayer
CORDES
3810 - - 16
Dugas
Verde Hot Springs
Goodwin
Bumble Bee
Rock Springs
ROCK SPRINGS
Castle Hot Springs
Wickenburg
RANCHO CABALLEROS
2510 - - 26
Congress
Congress Junction
Yarnell
Kirkland
Hillside
Yava
Signal
Santa Maria
Bagdad
BAGDAD
6136 - - 28
PEACOCK
Colorado River
CENTRAL OPEN AREA
DEFENSE IDENTIFICATION ZONE
GREEN 4
YOLO RANCH
(Emergency only)
SANTA MARIA
Verde R.
Aqua Fria R.
Verde
Pine
Long
Pays
RANCH
Ranch
7072
7525
7446
7250
6443
6381
5877
6207
6281
7626
6177
7973
6583
6391
6400
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7702
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10418
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9256
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6038
6080
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4900
4000
5000
6000
7000
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V 210
V 105
V 12
V 95
V 291
V 125
V 105 S
V 105 A
R 89
R 66
R 89

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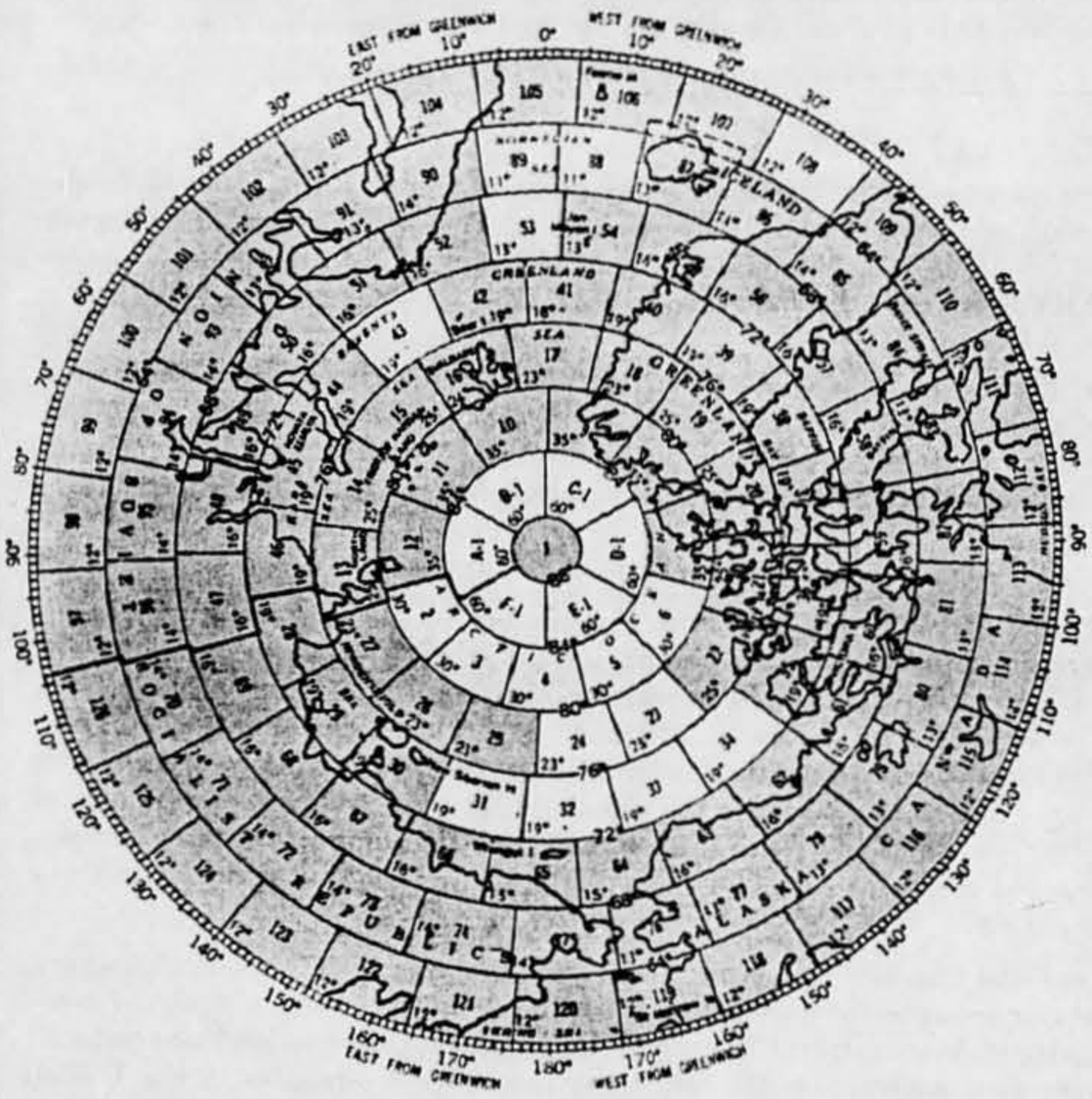
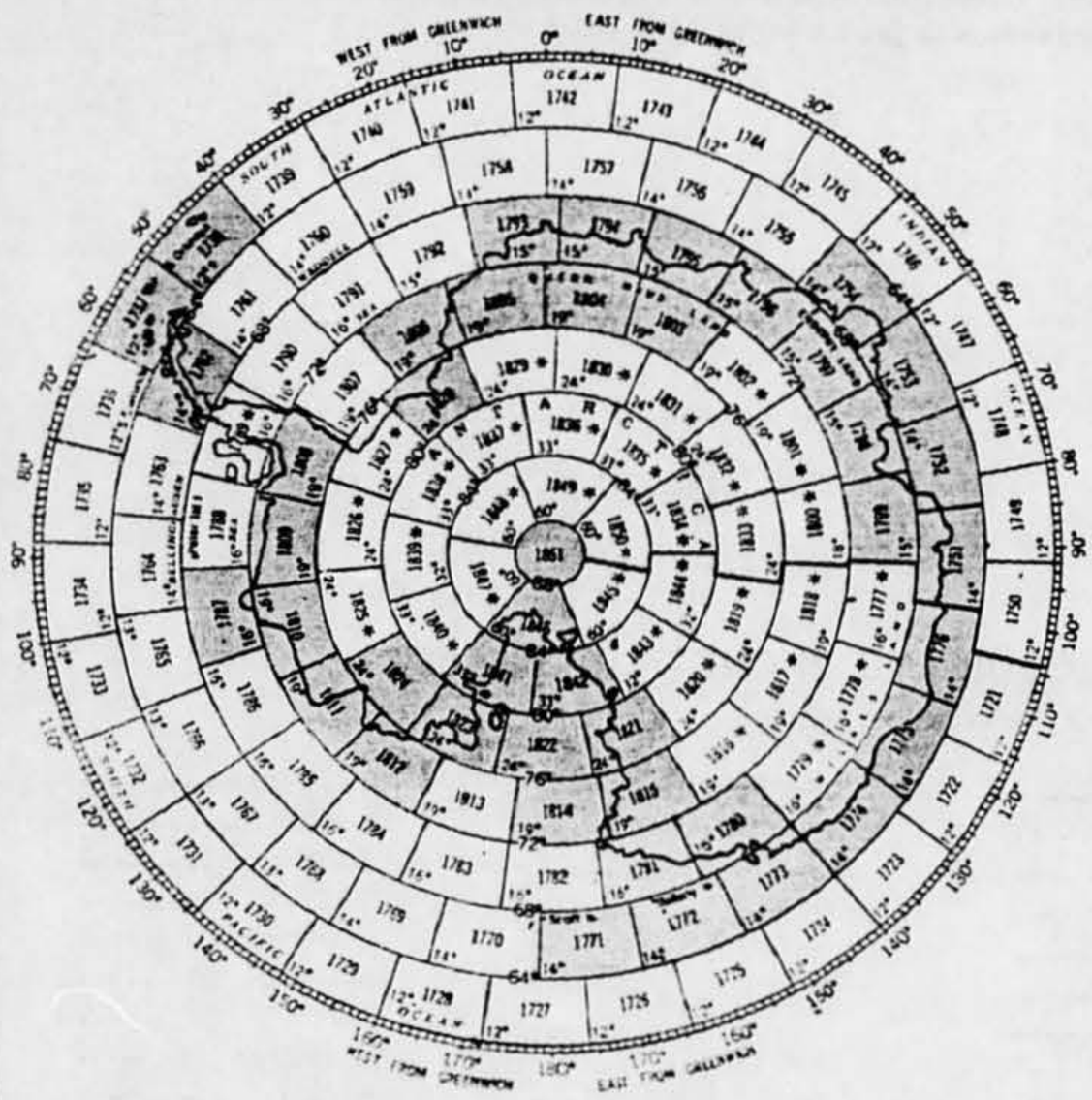
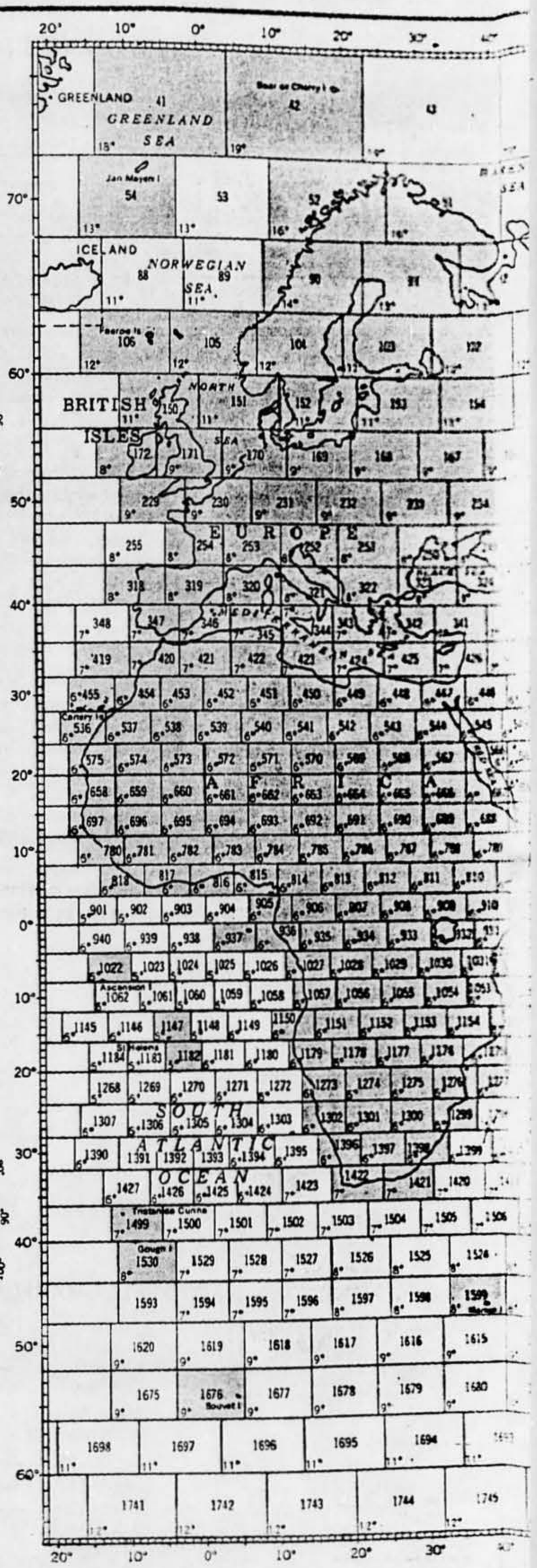
5-1-56

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.

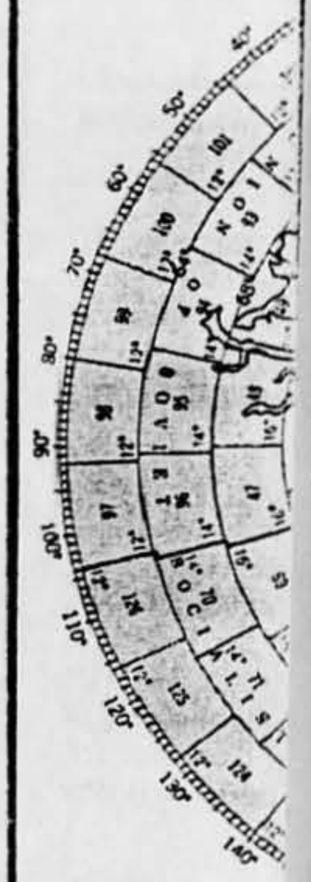
2. Requisitioning.

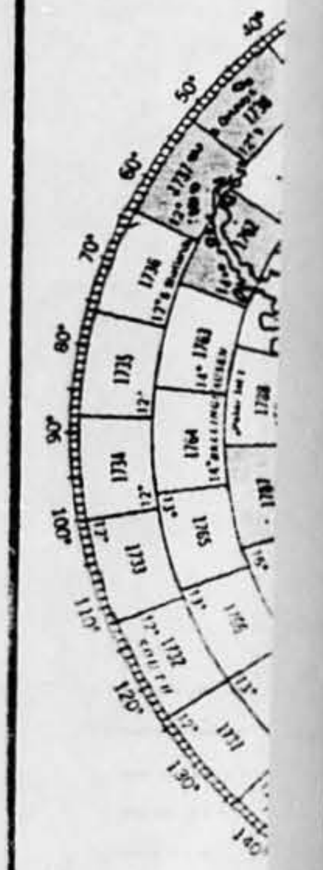
a. Outside Continental United States: USAF activities are to submit requisitions to the appropriate Aeronautical Chart and Information Office located within the applicable theater, in accordance with existing theater directives.

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.





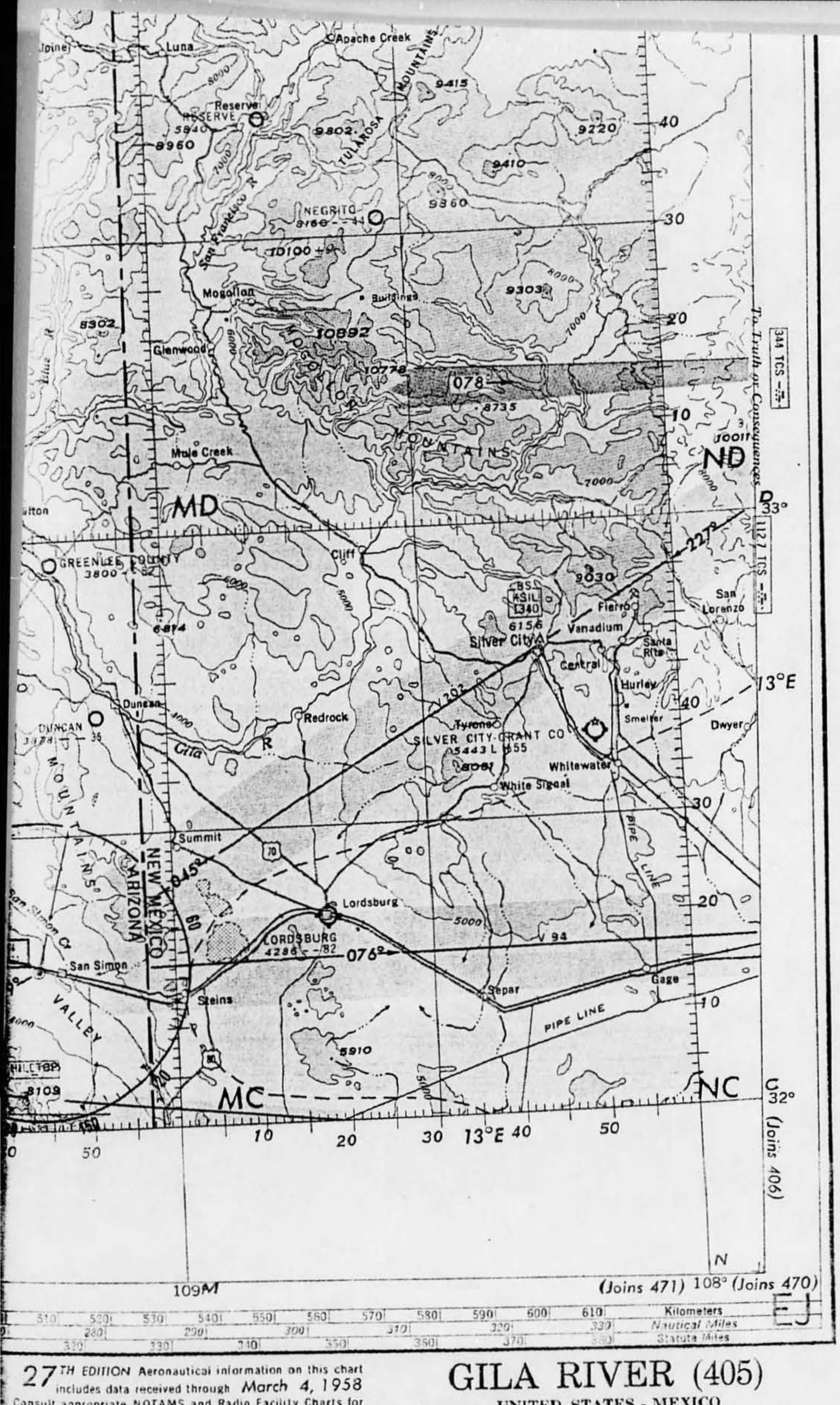
RADIOTELEGRAPH CODE AND PHONETIC ALPHABET

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

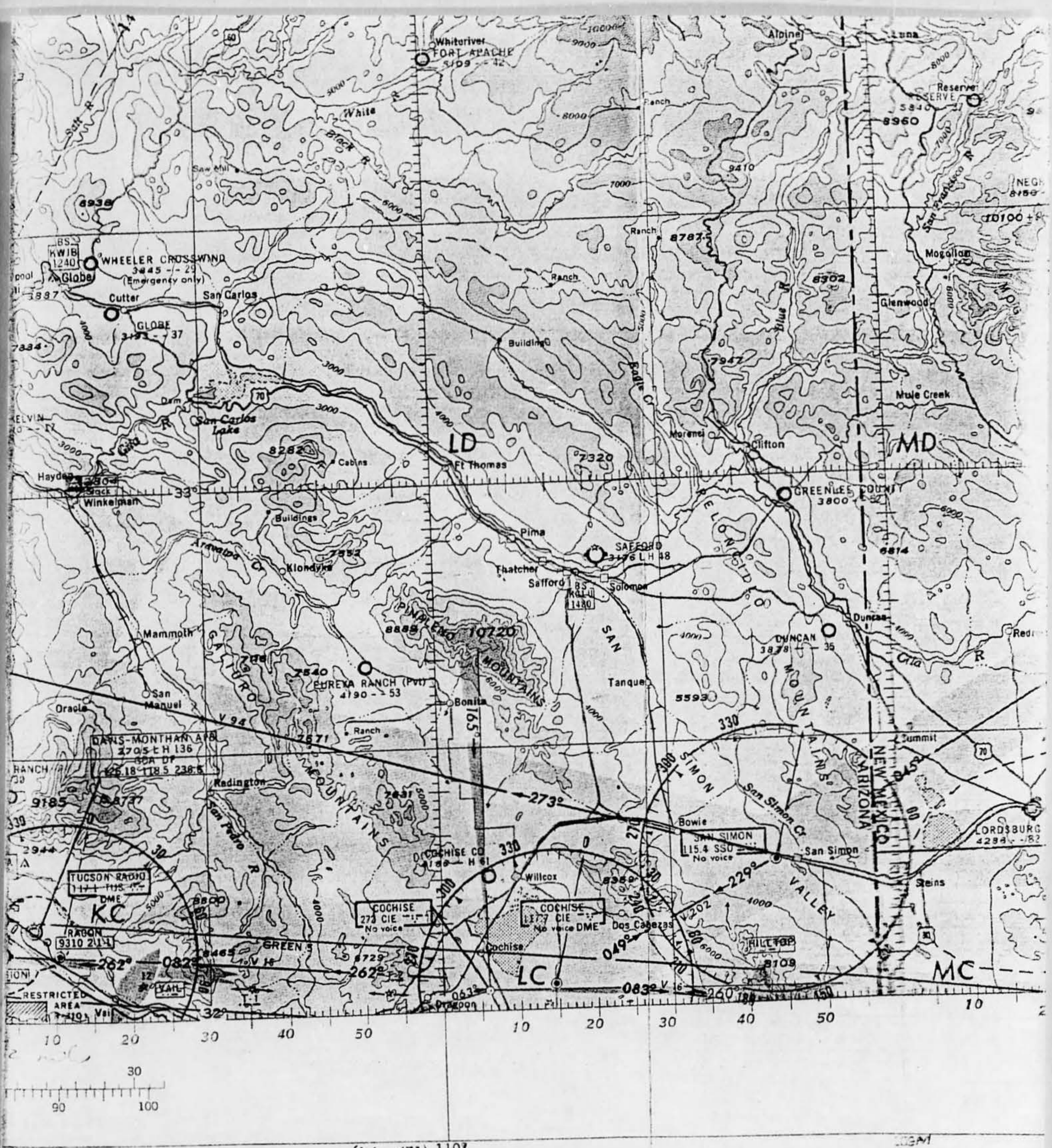
Consult appropriate NOTAMS and Radio Facility Charts for supplemental data and current information.

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

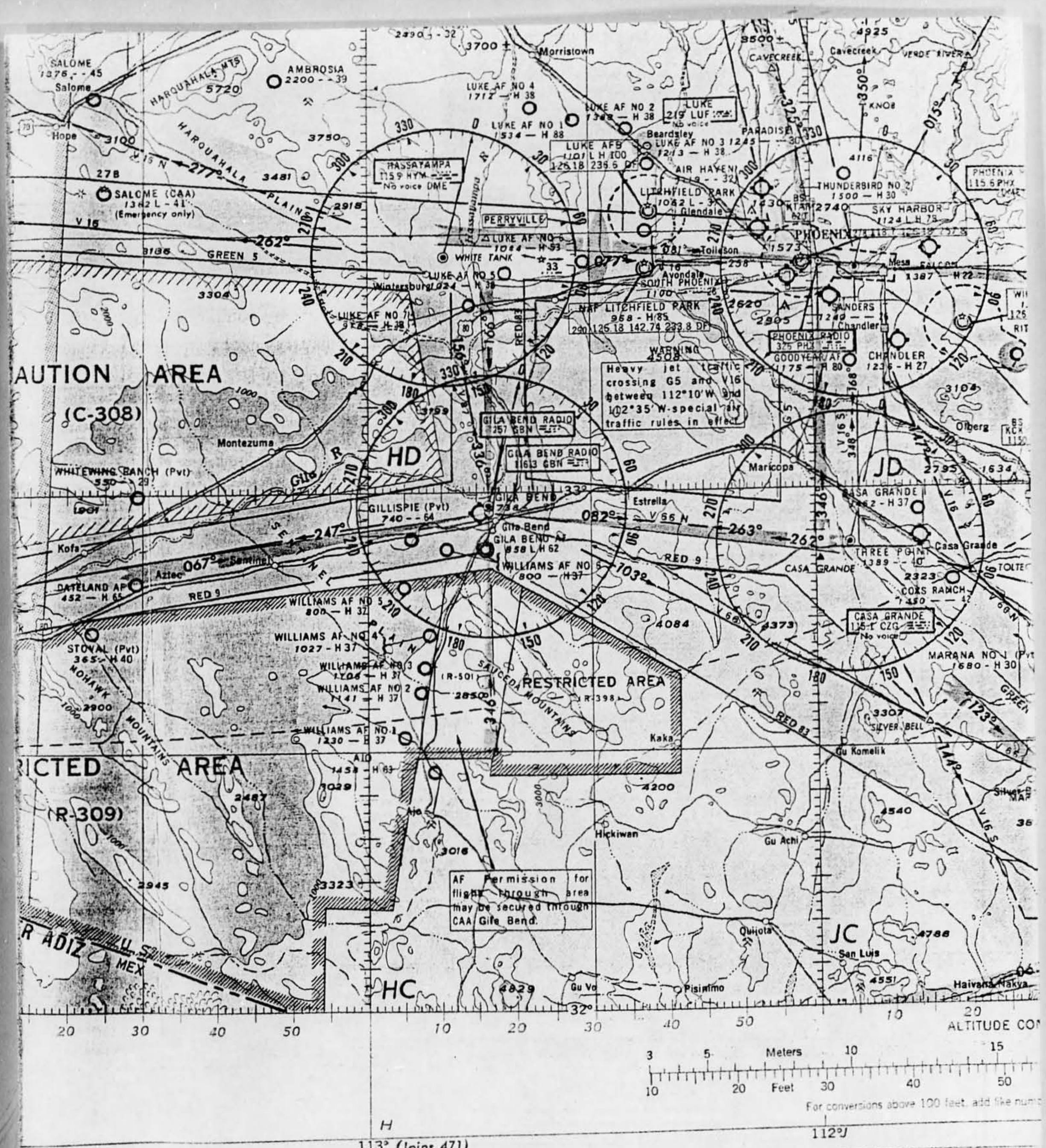
27TH EDITION Aeronautical information on this c
includes data through March 4, 19
Consult appropriate NOTAMS and Radio Facility Charts
supplemental data and other information.
Next edition is scheduled approximately six months.

Coast and Geodetic Survey
Commerce

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.

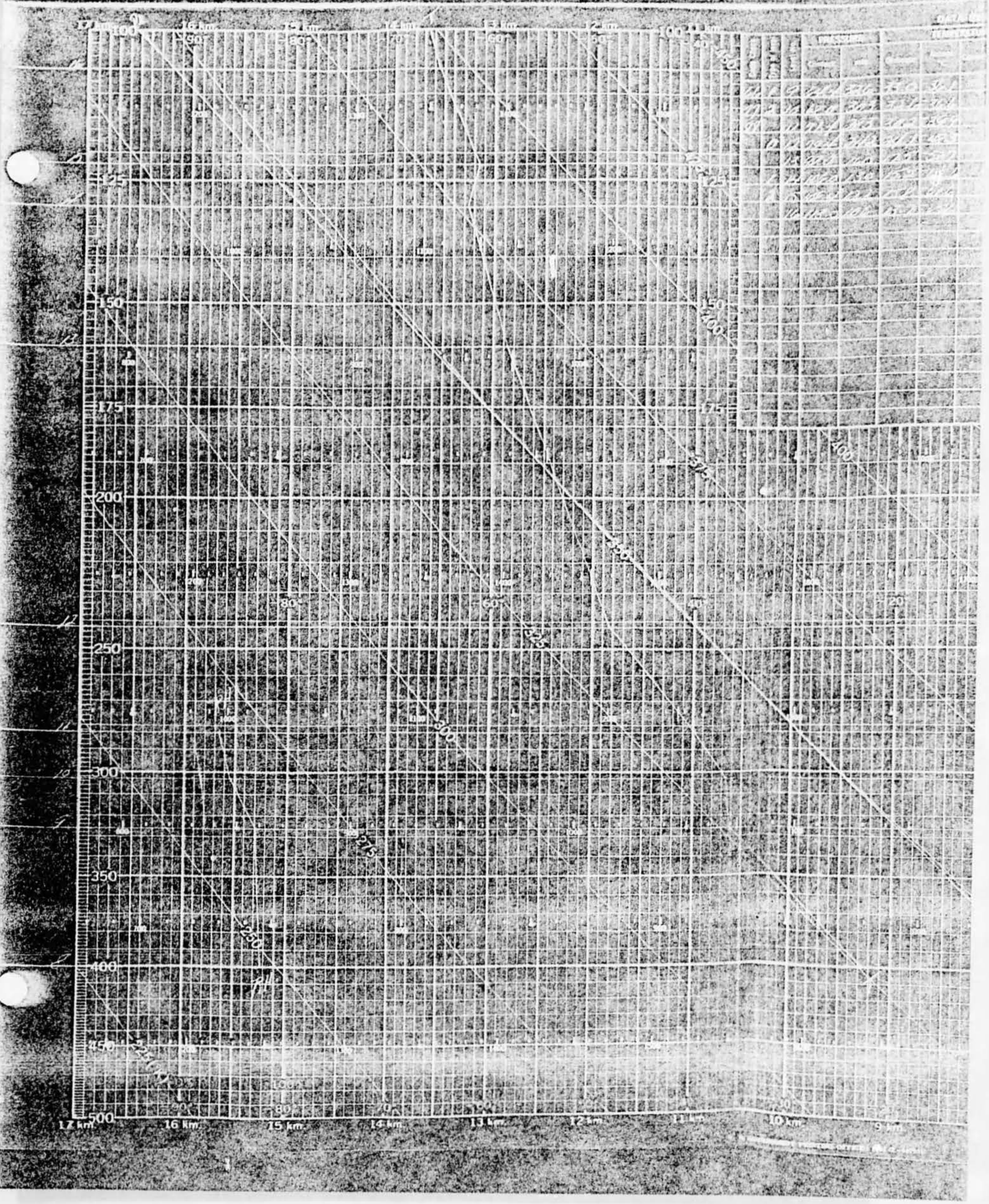


eological Survey,
Dept. of Agriculture,
and Geodetic Survey.

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.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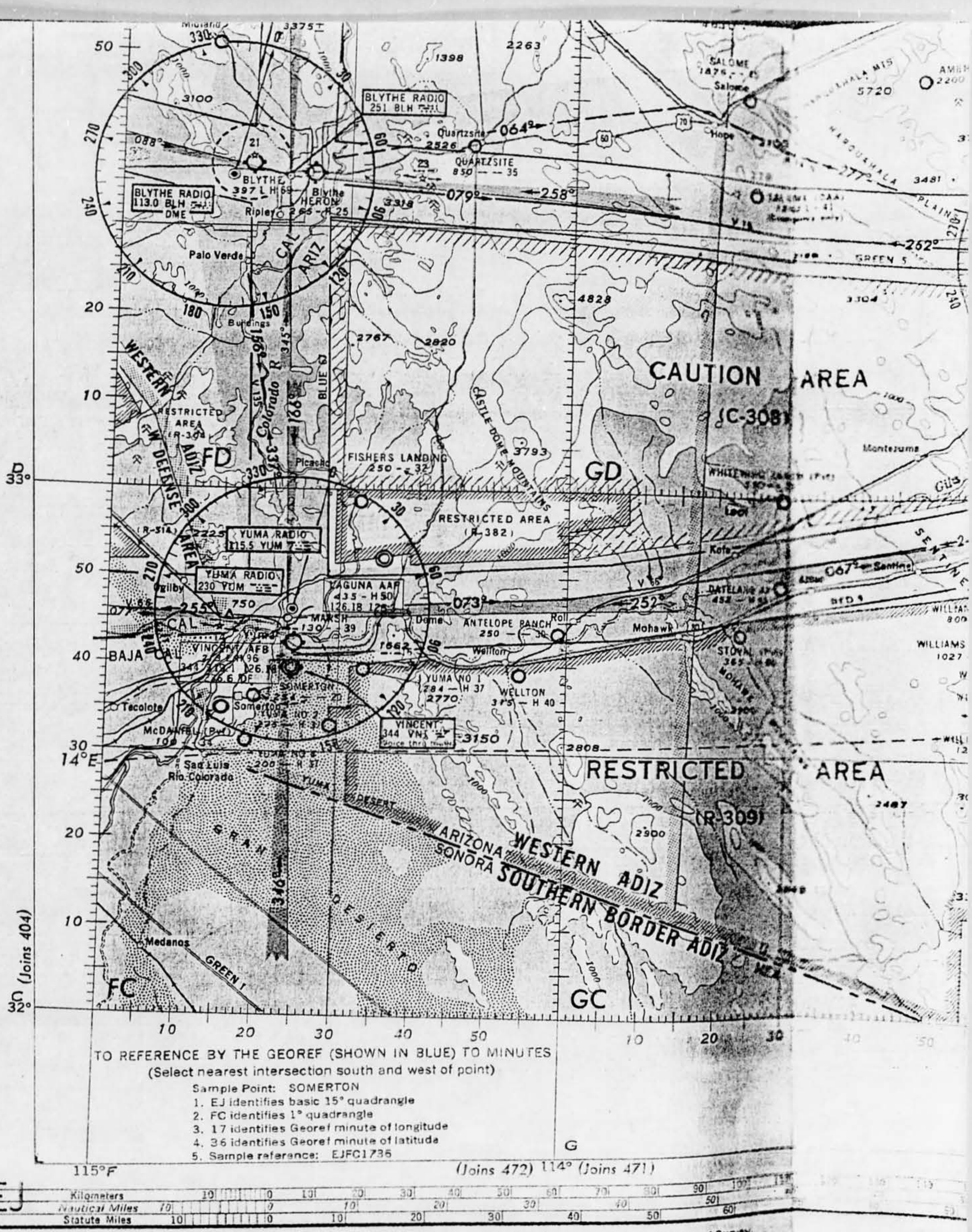
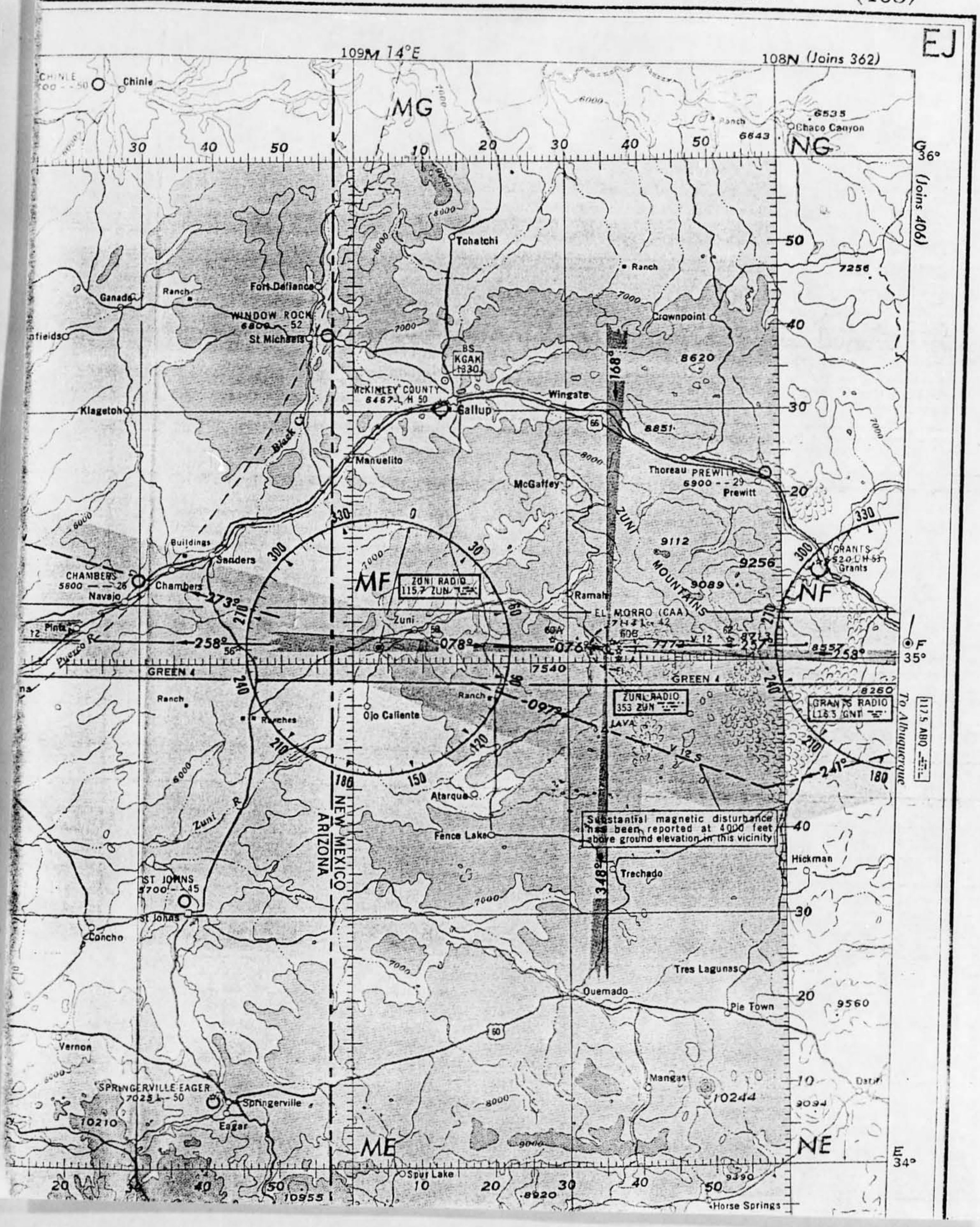


(405) PRICE 25 CENTS

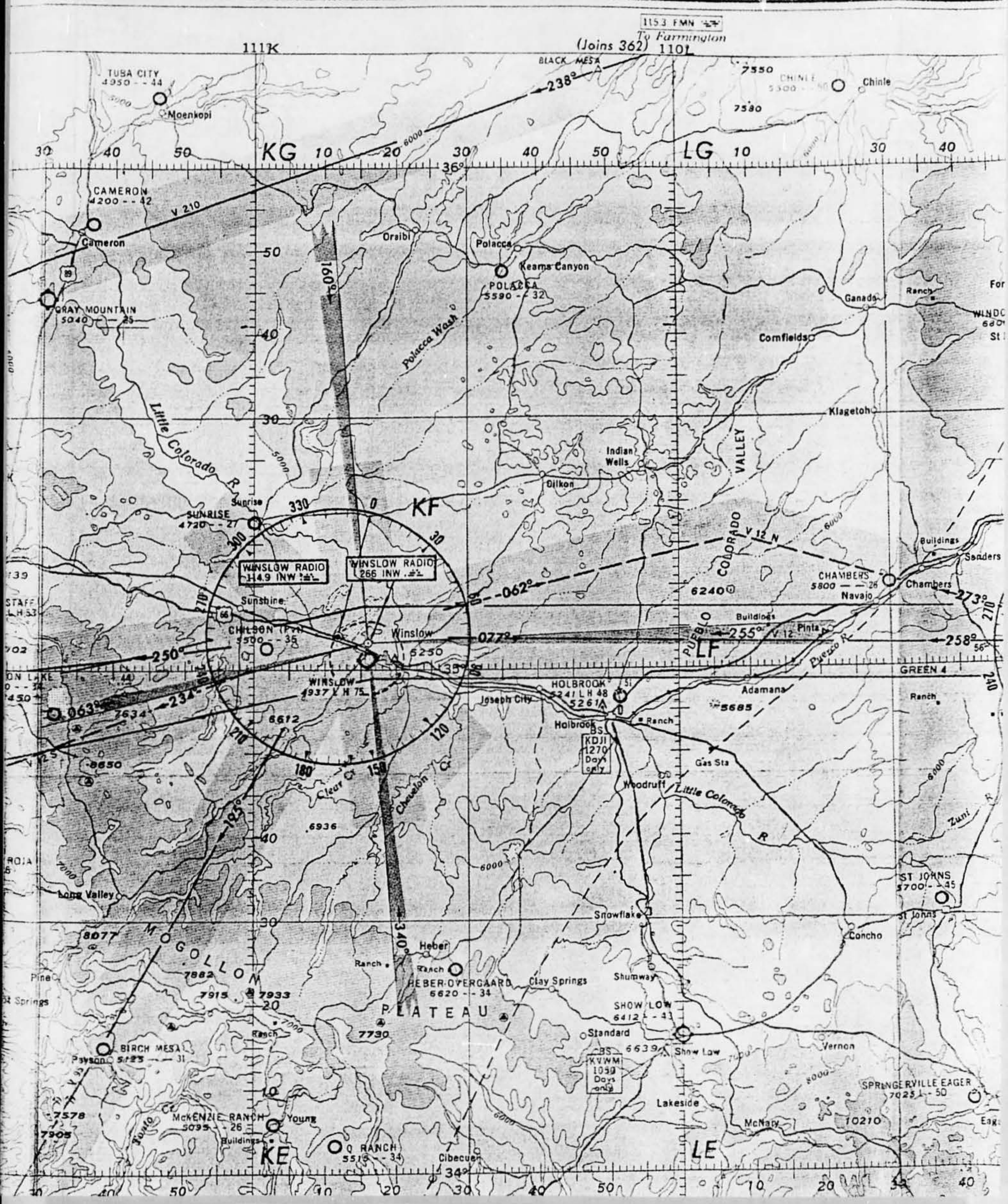
Principal Sources: Mexican Government, U. S. Geological Survey, U. S. Army Corps of Engineers, U. S. Air Force, U. S. Dept. of Agriculture, Civil Aeronautics Administration, and the U. S. Coast and Geodetic Survey

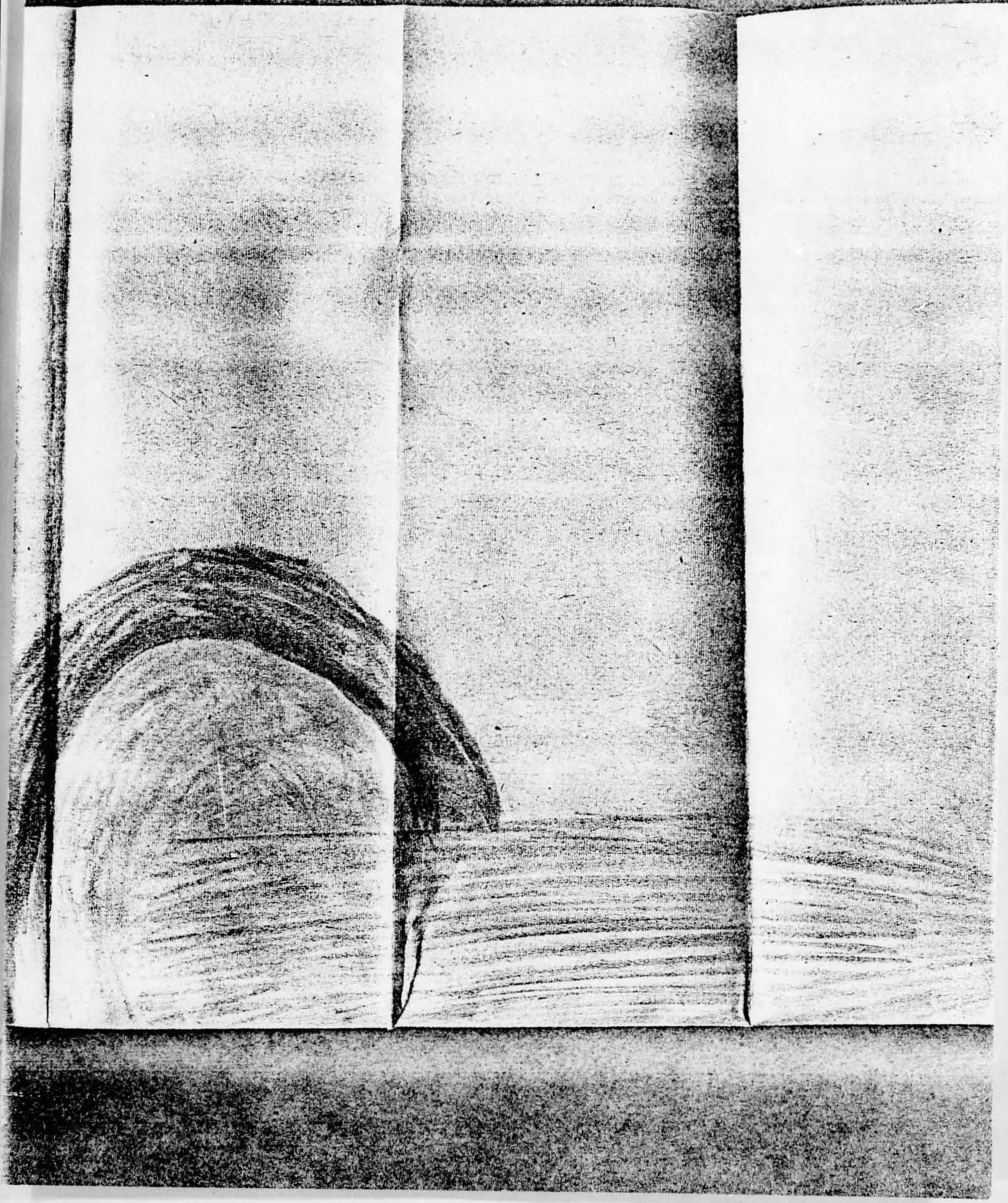
Lambert Conformal Conic Projection
Standard Parallels 33° and 45° Scale 1:1,000,000

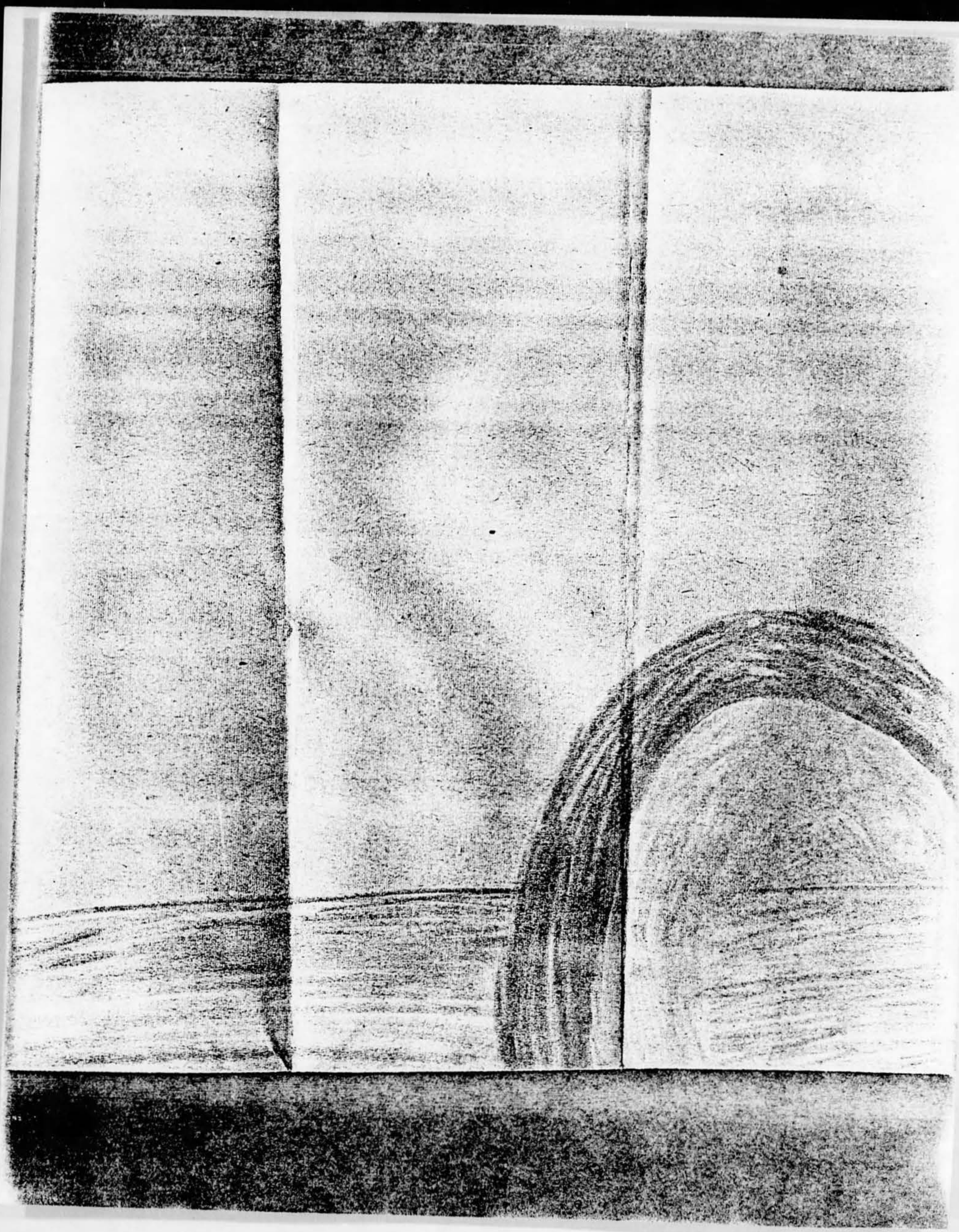


NAUTICAL CHART

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







TOPOGRAPHICAL SYMBOLS

AND TOWNS

NEW YORK

RICHMOND

ARLINGTON

Freehold

Corville

Arcola

HIGHWAYS AND ROADS

Dual Lane and Super Highways

Primary Roads

Secondary Roads

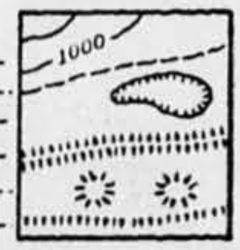
Trails

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

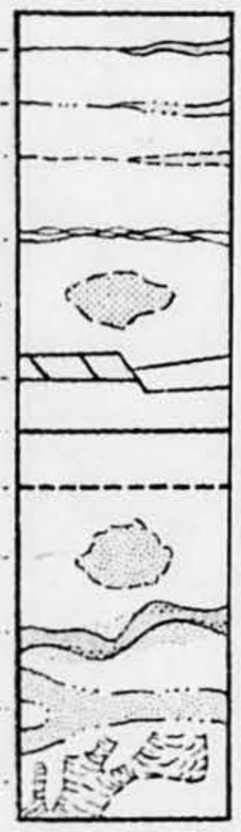
Canals
- In use
- Abandoned

Dry Lake Beds (brown stipple)

Sand Deposits in river bed

Dry Washes (brown stipple)

Glaciers and Ice Caps



y Ledges

CULTURAL AND MISCELLANEOUS

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on chart

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In a general area

evation is base of tower)

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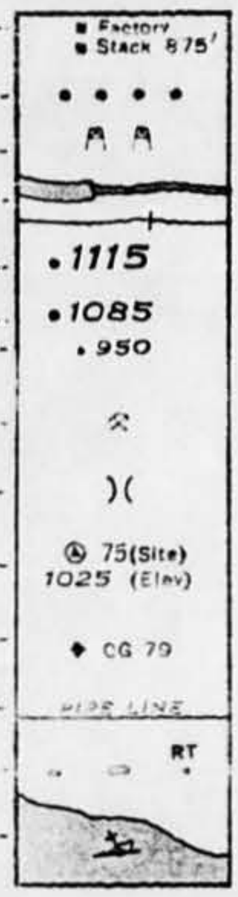
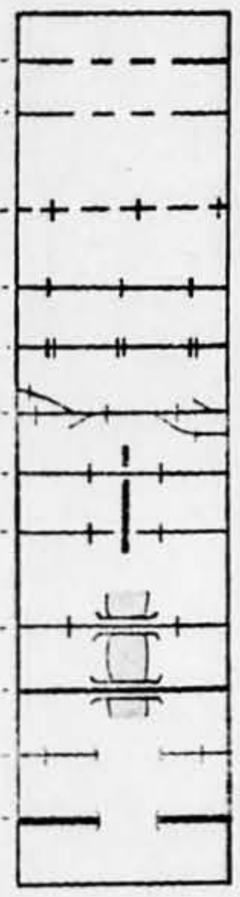


Boundaries
- International
- State & Provincial

Railroads
- Abandoned or Under Construction
- Single Track
- Multiple Track
- Sidings & Spurs
- Overpass
- Underpass

Bridges
- Railroad
- Highway

Tunnels
- Railroad
- Highway



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"
ice)

oadcasting Station ..... BS CFRB 1010

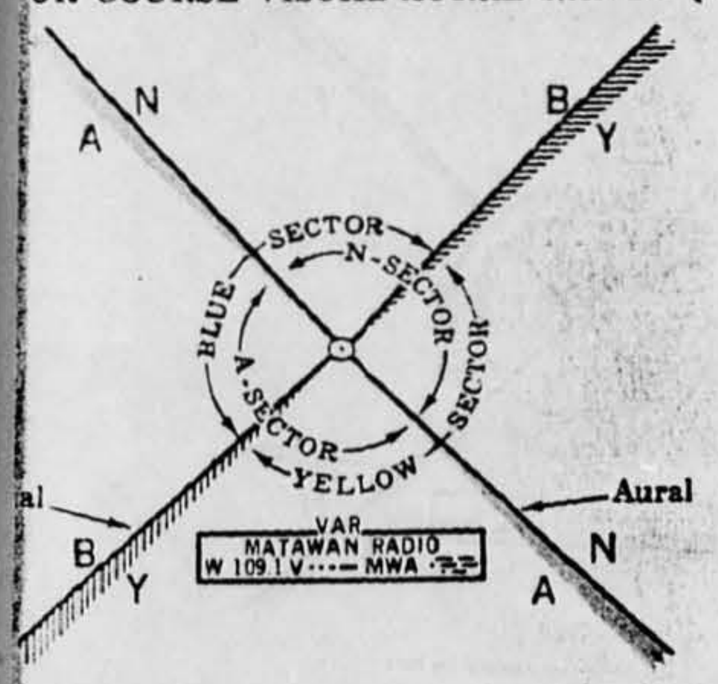
acon (Racon) ..... RACON 3256 2-1-2

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

TOPOGRAPHICAL SYMBOLS

CITIES AND TOWNS

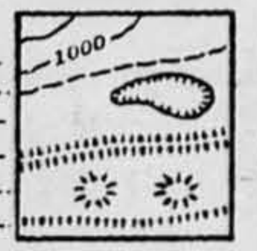
Metropolitan Areas ..... NEW YORK
Large Cities ..... RICHMOND
Cities ..... ARLINGTON
Small Cities ..... Freehold
Large Towns ..... Corville
Towns & Villages ..... Arcola

HIGHWAYS ANI

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

RELIEF FEATURES

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



Sand { Dunes ..... Areas ..... Ridges .....
Lava Flow .....

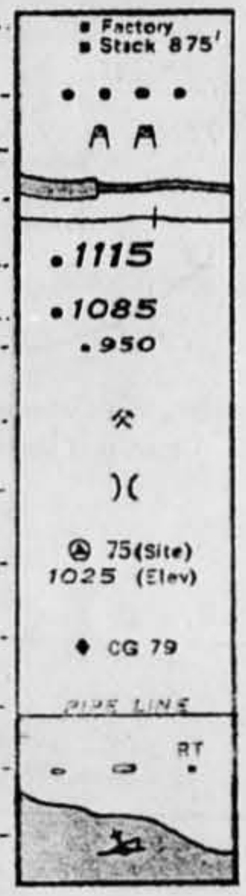
HYDROGRAPHIC FEATURES

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 ..... Intermitten ..... 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 .....

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

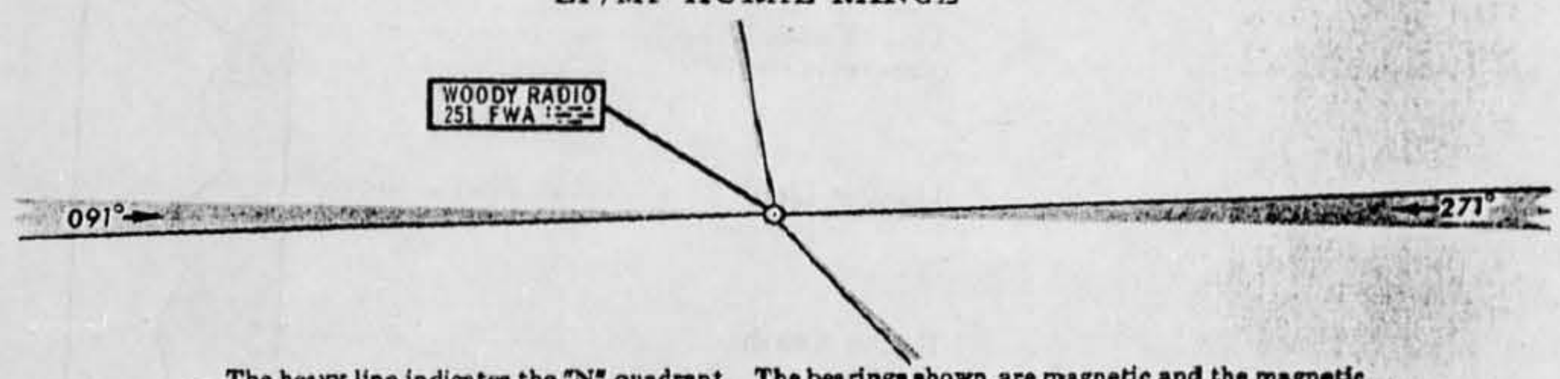
Radio Communication Station (Without voice) — CS KAZAN 5200 CKNX "No voice"

Radio Broadcasting Station — BS CFRB 1010

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

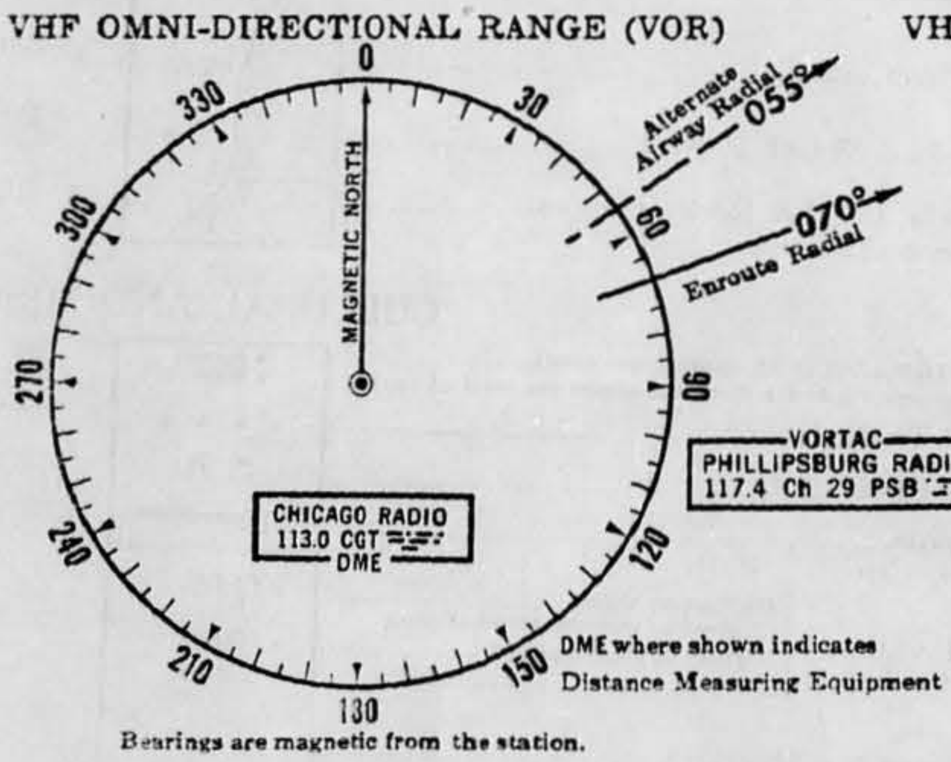
Radio Fan Marker Beacons — 100 watts: NOTT; BATES; 5 watts: DIXIE

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.

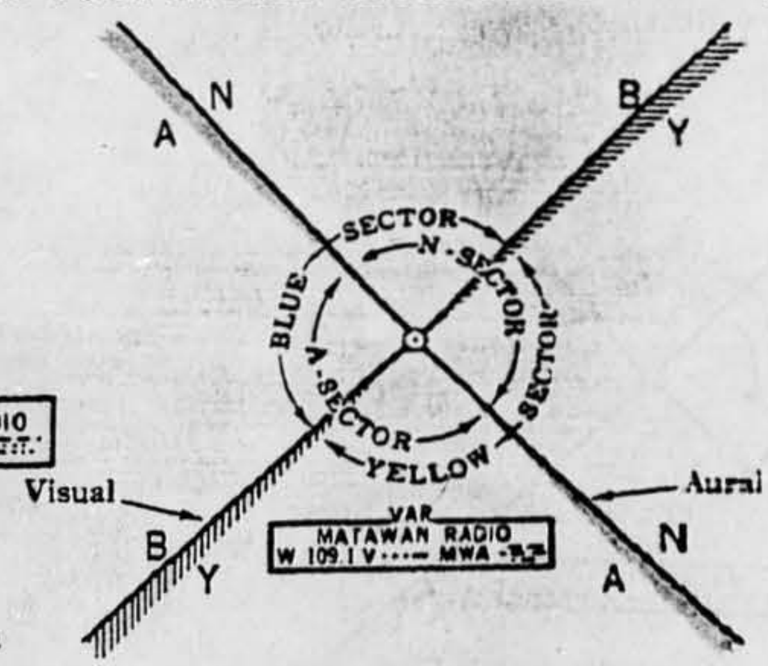
VHF OMNI-DIRECTIONAL RANGE (VOR)



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 identification.

AIR TRAFFIC CONTROL

Blue tint where shown indicates controlled airspace

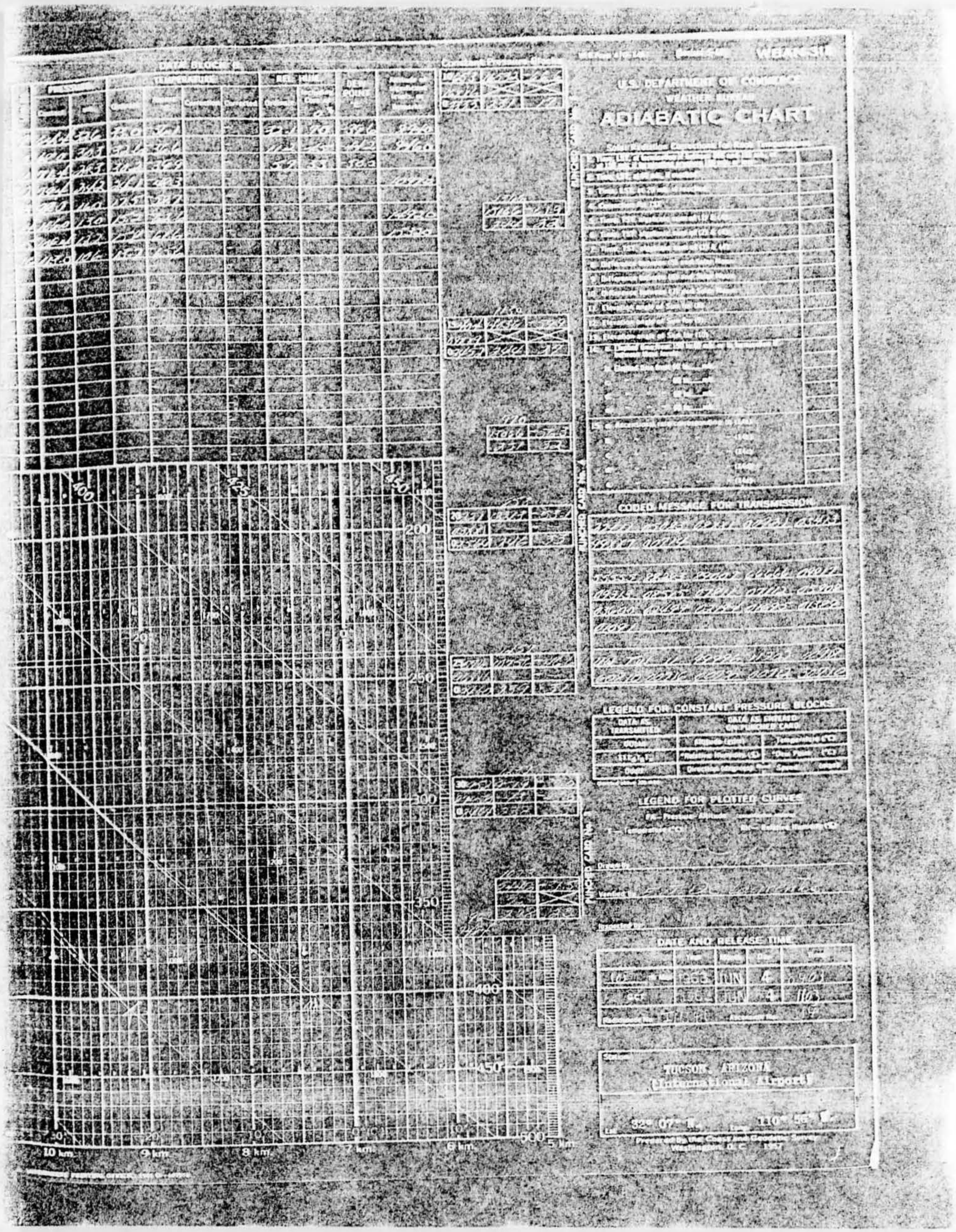
Control Zone

(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)

Controlled Civil Airway

Uncontrolled Civil Airway

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


ADIABATIC CHART
CODED MESSAGE FOR TRANSMISSION
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
TUCSON, ARIZONA
10 km
9 km
8 km
7 km
6 km
5 km

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

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

LAND		WATER	
908	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

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

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 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

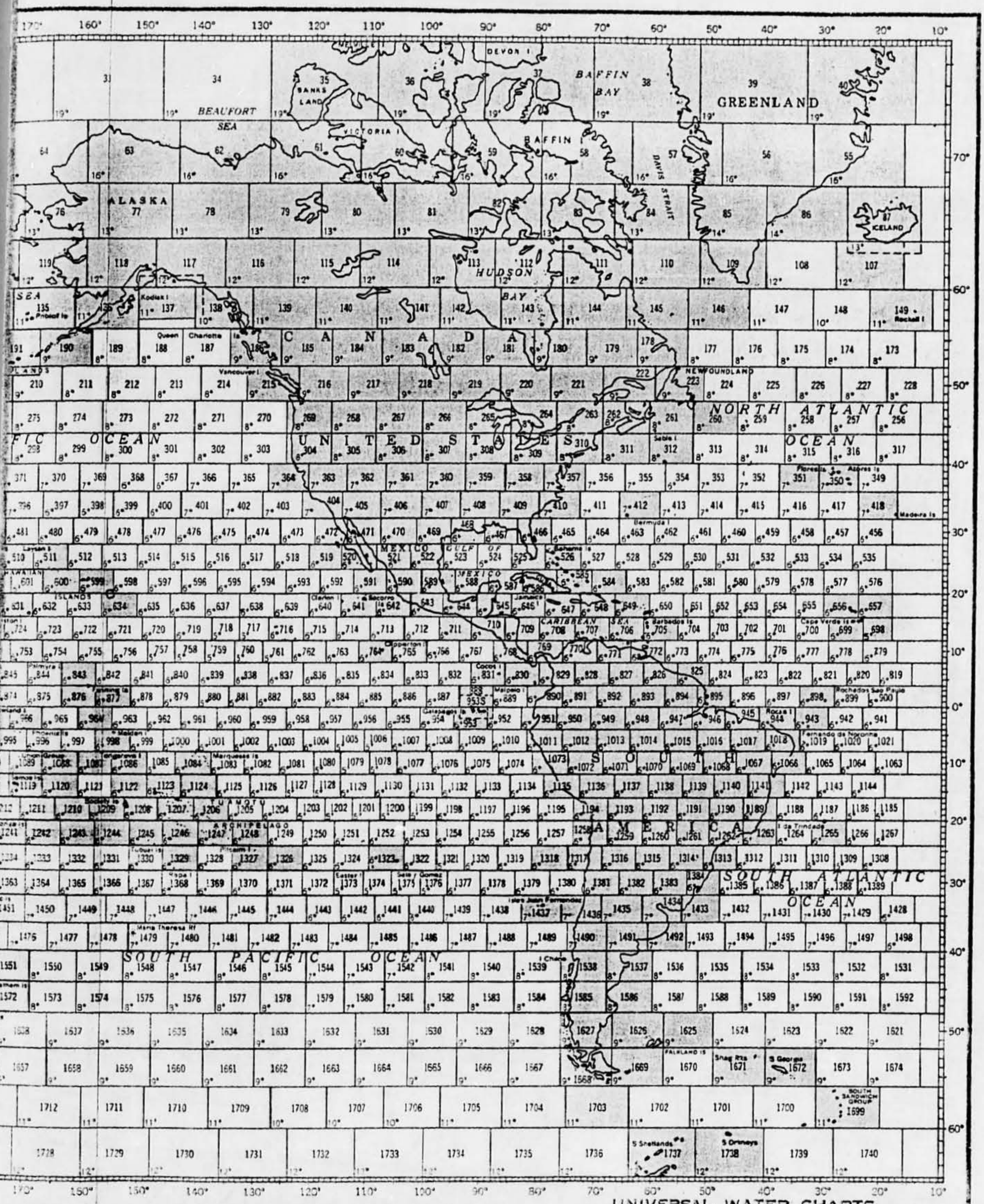
U. S. PROHIBITED, RESTRICTED, CAUTION, AND WARNING AREAS ON WORLD AERONAUTICAL CHART 405

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.

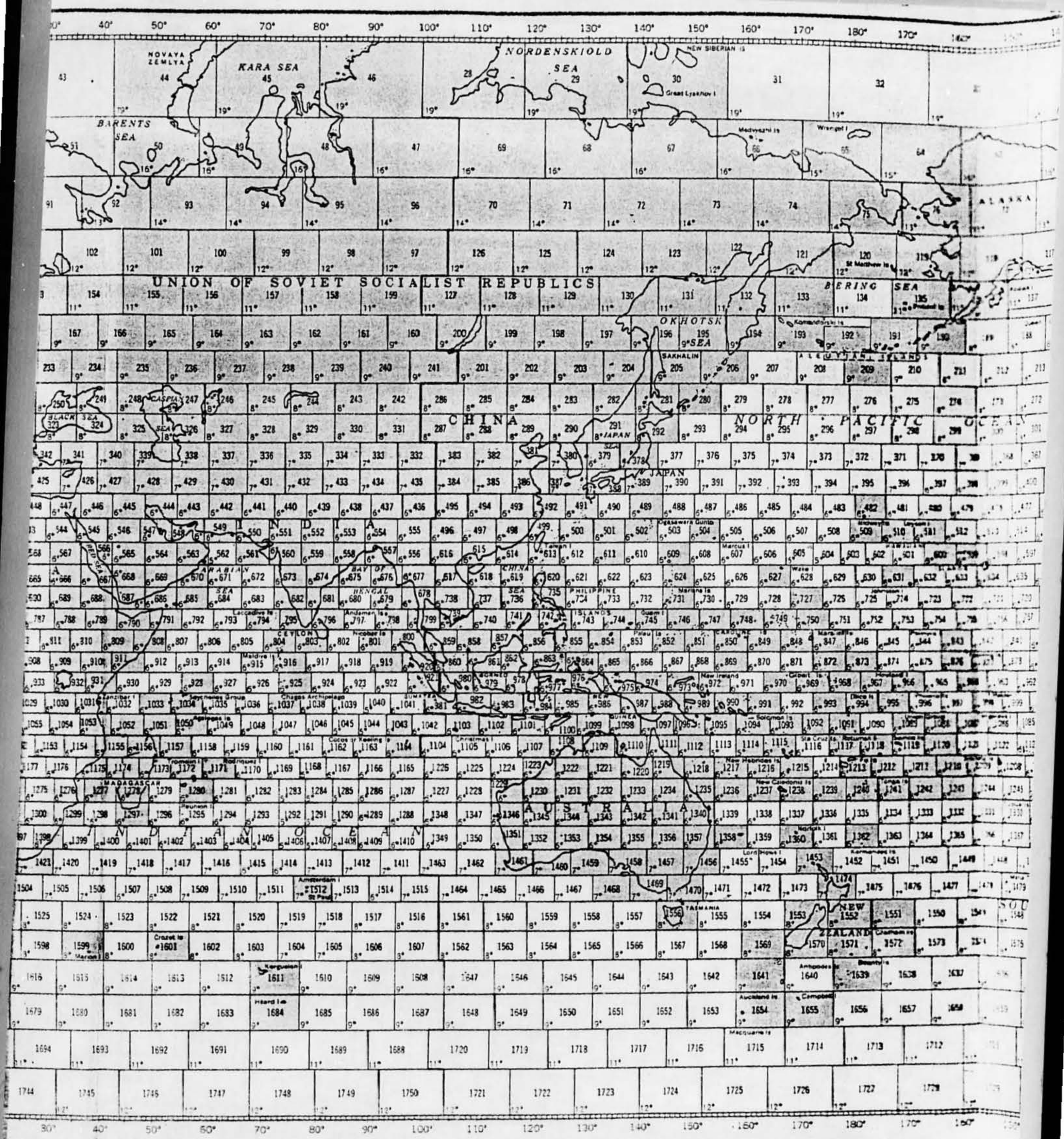


UNIVERSAL WATER CHARTS

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**

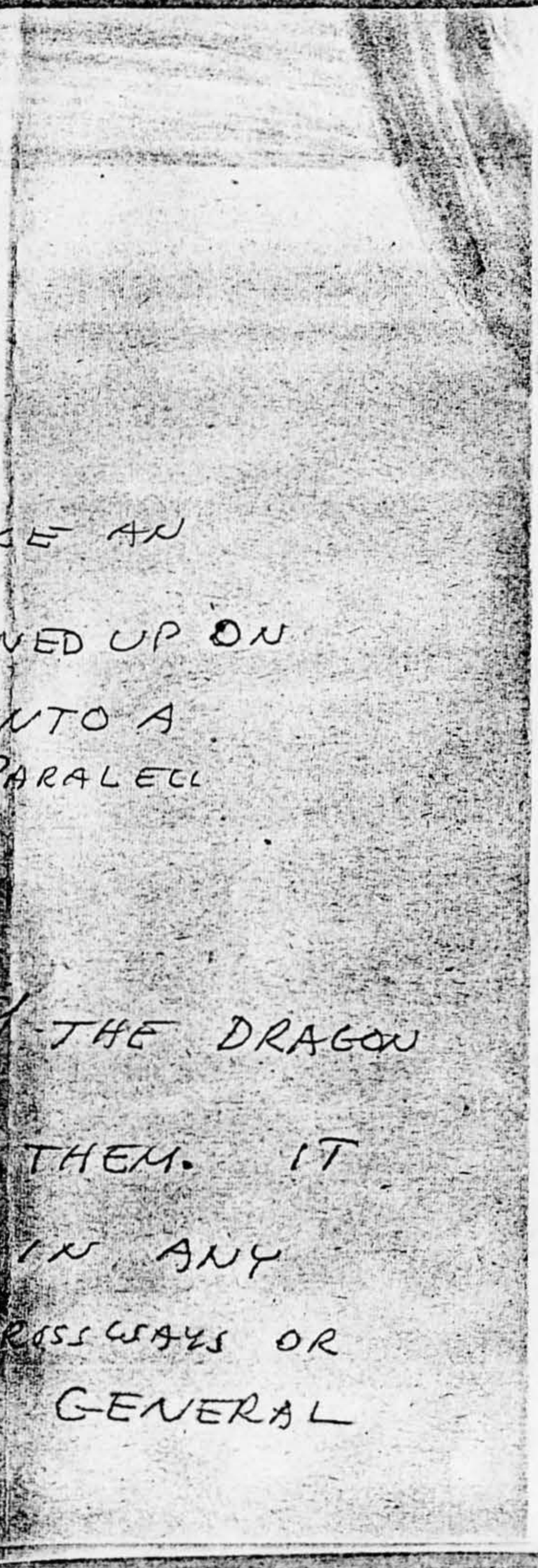


WORLD AERONAUTICAL CHART INDEX

Scale of Series 1:1,000,000

Y MY 14YR OLD SON A FEW
WATCHING IT. IT IS A VERY
AYS WOULD HIT THE WHIRLING
ENTRAL PART WOULD RE-IN
OUR EYES AND WOULD
OVER THIS DRAWING
AS A LITTLE BIT

THIS DRAWING WAS DONE BY MY 14YR OLD S
NUTES AFTER WE GOT THROUGH WATCHING IT. IT
OOD LIKENESS, WHEN THE SUNS RAYS WOULD HIT T
ENTRAL PART. SOMETIMES THE CENTRAL PART WOUL
XACT PERPENDICULAR POSITION TO OUR EYES AND
IS  THE ONLY IMPROVEMENT OVER THIS DRAWING
FER. IS THAT THE WHIRLING PART WAS A LITTLE BIT L
ITS EXACT CENTER.



E LOOKED LIKE AN

T SATURN TURNED UP ON

ELONGATED INTO A

WAS ALWAYS PARALEL

MINDED ME OF THE DRAGON

USED TO CALL THEM. IT

SHOOT OFF IN ANY

SIDEWAYS, CROSSWAYS OR

IN THE SAME GENERAL

TES.

THIS D

MINUTES AFTE

GOOD LIKENESS

CENTRAL PAR

EXACT PERPE

THIS

OFFER. IS TH

ITS EX

AS I MENTIONED THIS FLYING MACHINE LOOKED L
ASTRONOMERS PICTURE OF THE PLANET SATURN T
ITS EDGE AND THE CENTRAL PART ELONGATED
CIGAR SHAPE. THE CIGAR SHAPE WAS ALWAYS
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

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

DATA BLOCK A

Pressure	Temperature	Rel. Hum.	Dew Point	Wind
Corrected	Dry	Dry	Dry	Dir.
Raw	Wet	Wet	Wet	Vel.

SURFACE OBSERVATION AT RELEASE

Pressure				Contact
Station		Correction to Shelter		
Inches	Mb.	Mb.	Mb.	

Temperature		Relative Humidity	Wind	
Dry	Wet	Wet	Direction	Speed
°C	°C			

CLOUDS AND WEATHER

BASELINE CHECK READINGS

Temperature			
°C			

Relative Humidity			
Dry	Wet	Dry	Wet

CODED MESSAGE FOR TRANSMISSION

REMARKS

LEGEND FOR CONSTANT PRESSURE BLOCKS

Data as Transmitted	Data as Entered on Punched Card	

LEGEND FOR PLOTTED CURVES

DATE AND RELEASE TIME

Year	Month	Day	Time
1963	JUN	4	

Washington, D.C. 1967