PROJECT 10073 RECORD CARD

1. DATE	2. LOCATION	12. CONCLUSIONS
16 Oct 1961	Jensen, Utah	☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon
3. DATE-TIME GROUP Local _____ GMT 17/0100	**4. TYPE OF OBSERVATION** ☐ Ground-Visual ☐ Ground-Radar ☒ Air-Visual ☐ Air-Intercept Radar	☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft
5. PHOTOS ☐ Yes ☒ No	**6. SOURCE** ~~Military~~ CIVILIAN	☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical
7. LENGTH OF OBSERVATION	**8. NUMBER OF OBJECTS** 3	**9. COURSE**
		☒ Other Probably mirage ☐ Insufficient Data for Evaluation ☐ Unknown

10. BRIEF SUMMARY OF SIGHTING

Pilot observed 3 objects ahead. As he approached them they appeared motionless. Climbed to 8,500 and approached to 5 mi. Objects raised and disappeared to SSW in 1 1/2 min. No radar pick up in area at sunset.

11. COMMENTS

An inversion was present at approx 8000' in Utah area on date of sighting. Due to inversion there was probably a superior mirage of distant mountain tops appearing as objects in air. Motion of mirage due to planes movement. Relative time geometry would remain constant and pilot was actually observing tops of new mountains or different parts of same range. Sightings are similar to that of Kenneth Arnold which occurred in June of 1947.

ATIC FORM 329 (REV 26 SEP 52)

INTELLIGENCE REPORT INTELLIGENCE REPORT

DEPARTMENT OF THE AIR FORCE

WARNING: This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws. UNCLASSIFIED Title 18, USC, Secs 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

COUNTRY: United States of America

SUBJECT: (U) UFO

DATE OF INFO: 16 October 1961

PLACE & DATE ACQ: [redacted]

EVALUATION: B-2

SOURCE: Source below named

REPORT NO: IR-5-61

DATE OF REPORT: 20 October 1961

REFERENCES: AFR 200-2/Complete

NO OF PAGES: 4

FROM: Sec & Law Enforcement Div
Hill Air Force Base, Utah

PREPARED BY: Howard W. LUCAS

SUMMARY:

At 0302Z hours on 17 October 1961 a report of a UFO sighting was received from [redacted], civilian pilot, for [redacted], whose address is [redacted] reported while flying from Rangley, Colorado to Salt Lake City he sighted three objects approximately ten miles east of Jensen, Utah (40-23N, 109-08W). [redacted] altitude was 7500 feet at the time of sighting. He climbed to 8500 feet on a level with the objects which were west of him. Visibility at Hill Air Force Base at the time was clear, visibility fifteen miles, ceiling unlimited, wind calm. As [redacted] approached the objects they raised straight up and then moved on a slight angle upward and moved away at a very high speed. The objects disappeared in the south, southwest, approximately 210° in a minute and a half.

. . . . . .

1. At 0302Z hours, 17 October 1961, [redacted] reported that at 0100Z hours 17 October 1961 he sighted three objects approximately ten miles east of Jensen, Utah. As he flew toward the objects they appeared motionless in the sky at 8500 feet. [redacted] was flying at 7500 feet, raised to 8500 on a level with the objects and as he neared them approximately five miles, they raised and disappeared in a south, southwest direction in a minute and a half. [redacted] checked with the Myton Range Control (40-10N, 110 06W) at 0102Z hours. Myton Range Control reported no aircraft in area and had no sighting of objects.

DISTRIBUTION BY ORIGINATOR: FTD-E 3 cys

DISTRIBUTION BY HQ USAF
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ARMY NAVY
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UNCLASSIFIED

INTELLIGENCE REPORT INTELLIGENCE REPORT

This format is used in lieu of AF Form 112 which is not available.

2. At 1630Z hours, 17 October 1961, Mr [redacted] was interviewed at this location. Following is information received on the interview. The following information and answers to questions is prefaced by paragraph number of items of information requested in paragraph 15, AFR 200-2, dated 14 September 1959.

15a(1) Shape - two box shape with protruding fins at bottom and one disc shaped.

15a(2) Size - Couldn't compare size to any known object, however, stated they looked the size of a large transport aircraft in the distance. Further that he could tell the objects were not conventional aircraft.

15a(3) Color - A dull gray - no reflection.

15a(4) Number - three

15a(5) Two on same level and distance from him and the disc slightly higher and between the two box shaped objects.

15a(6) Discernible features - Fins protruding from two of them and one shaped like a disc, thin at the edges and thicker in the middle.

15a(7) Tail, trail, or exhaust - Could see none.

15a(8) Sound - No sound heard.

15a(9) Pertinent features - None observed.

15b(1) What called attention to objects: Was making observations to open flight plan after take off from Rangley, Colorado.

15b(2) Angle, elevation, azimuth - Object first sighted east of Jensen, Utah. They were west of him and he was flying on a 270° heading at 7500 feet. The objects were at approximately 8500 feet. He climbed to 8500 feet on a level with hovering objects.

15b(3) Angle, elevation and azimuth at time of disappearance - The objects raised straight for 1000 feet and moved at high speed on a twenty degree angle upward and moved south, southwest 210° to 220° heading and disappeared in about a minute and a half.

15b(4) Flight path and maneuvers - At first sighting there was no motion. Nearing objects about five miles they raised straight up and then moved at high speed in a south, southwest direction until out of sight. Acceleration was very fast and faded in the distance.

15b(5) How did the objects disappear - Climbed on a 210° heading on a slight upward angle and disappeared in about a minute. Could not estimate speed.

This format is used in lieu of AF Form 112 which is not available.

15b(6) How long objects visible - About three minutes.

15c(1) Manner of observation - Naked eye.

15c(2) Optical aids - None

15c(3) Airborne sighting - Flying a Piper Comanche Serial Number [redacted], at an altitude of 7500 feet on a 270° heading at an indicated airspeed of 120 miles per hour. The aircraft is based at Salt Lake Municipal Airport Number 1.

15d(1) Time and date of sighting - 0100Z hours, 17 October 1961.

15d(2) Light conditions - Sunset. Sun was down but not dark.

15e(1) Location of observer - Flying at 7500 feet on a 270 degree heading toward objects. Reportedly flying within five miles of objects. Stated objects were ten miles east of Jensen, Utah, about six miles south of US Highway 40.

15f Information on observer - [redacted] appeared to be an emotionly stable person about forty years old, and gave a clear, consistant report on the sighting. Has several years of flying experience and holds a private pilot's license. Has been flying for the company for a year and a half.

9. Following is the balance of information forwarded in compliance with AFR 200-2:

15g(1) Weather and winds - Stated the weather was clear with no cloud cover. Could not determine any wind if any while flying.

15g(2) Weather and winds - Hill Air Force Base weather reported weather at time of sighting was clear. Information received from Salt Lake Weather Bureau - Wind at 6000 feet - 290° at 10 knots, 10,000 feet 290° at 10 knots, 16,000 feet at 270° at 10 knots, 20,000 feet 280° at 10 knots, 30,000 feet 180° at 25 knots.

15g(3) Ceiling - Unlimited.

15g(4) Visibility - fifteen miles.

15g(5) Cloud cover - None

15g(6) Thurderstorm - None reported.

15g(7) Temperature - 67 degrees F., Dew point 40 degrees F.

15h Unusal activity or condition - None

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15i Interception or identification - Observer sighted objects while flying from Rangley Colorado to Salt Lake City, Utah. Due to the lapse of time from sighting to reporting time and the geographical location of sighting no aircraft dispatched. Observer was alone in aircraft.

15j Air Traffic and balloon releases - Myton Range Control reported no aircraft in area.

15k The preparing officer is an Investigator GS-5, Security and Law Enforcement Division, Hill Air Force Base, Utah. Preliminary analysis indicates the observer is a logical and mature person. He is convinced the objects were not conventional type aircraft. No leads nor clues were developed that would lead to the identity of the objects. He consistantly described the maneuvers and flight path of the objects and also the shape of the objects. The observer was the only reported witness to this sighting. There are no known manufacturers of experimental type aircraft in this area and no known missile firings are being conducted other than static tests. With the submission of this report, it is believed that all local efforts to identify the objects have been exhausted.

Howard W. Lucas

HOWARD W. LUCAS
Security Specialist, GS-5
Internal Security Branch

APPROVED:

Charles W. Brion

CHARLES W. BRION
Major, USAF
Chief, Security & Law
Enforcement Division

This format is used in lieu of AF Form 112 which is not available.

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

REPLY TO
ATTN OF: CCDPD

SUBJECT: Radiosonde Data for Salt Lake City 12 January 1962

TO: Aerospace Technical Intelligence Center
ATTN: AFCIN 4E2X, Sgt. Moody
Wright-Patterson AFB, Ohio

1. Reference: Your telephone request 0930 EST, 12 January 1962.

2. We are sending photocopies of adiabatic charts (WBAN-31) for soundings taken at Salt Lake City, Utah on 16-18 October 1961.

3. December 1961 data have not been received, but we have asked the checking center at Tinker AFB to send you photocopies or the originals to us for copying as follows:

Adiabatic charts (WBAN-31) for 20-22 December for soundings taken at Eglin AFB and Cape San Blas, Florida/Site D-3. These are the closest rawinsonde locations to Panama City.

FOR THE DIRECTOR

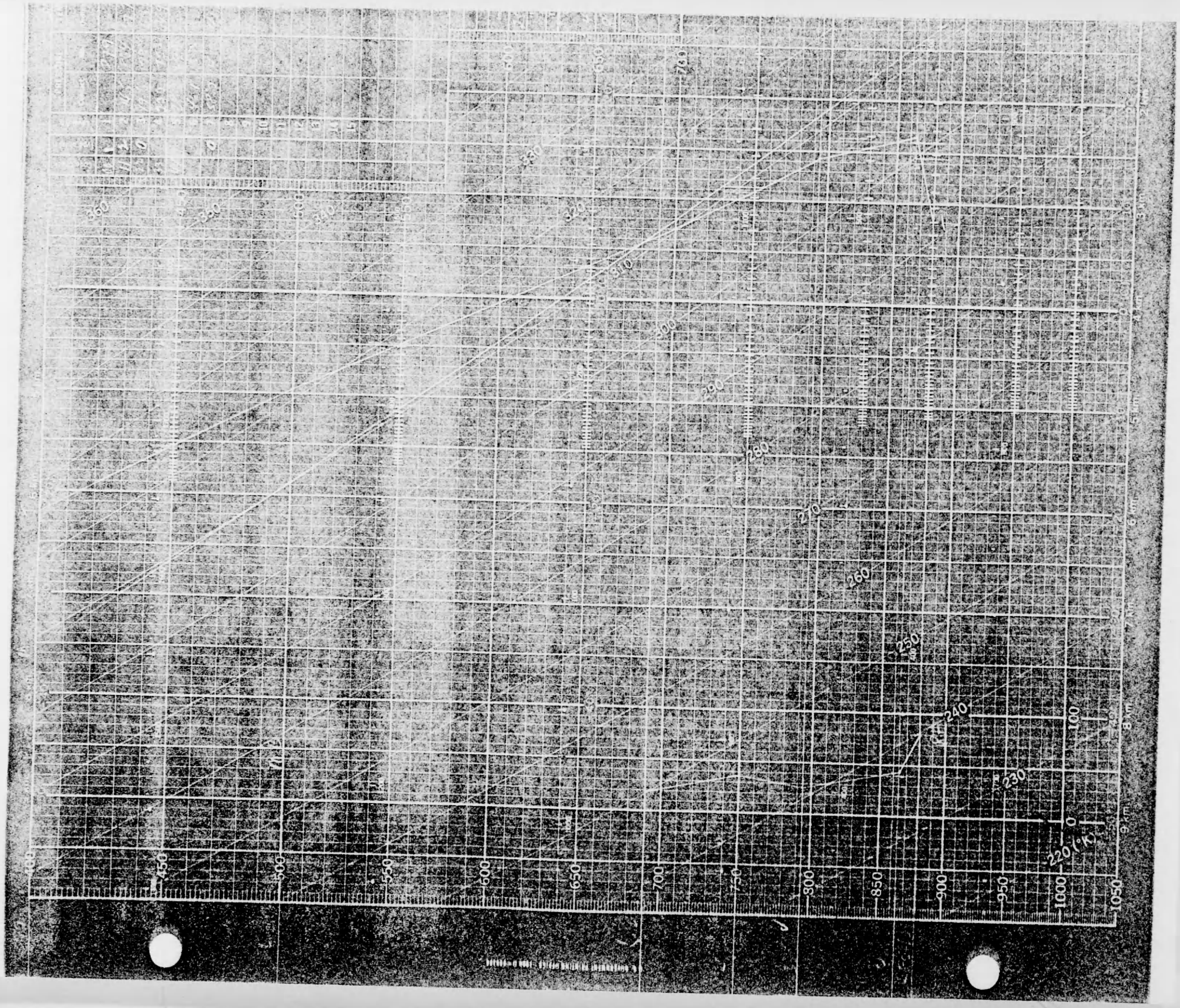
Pallas L. Tye, Jr.
PALLAS L. TYE, JR.
Captain, USAF
Administrative Officer

Atch
Radiosonde data f/Salt Lake City

JENSEN, UTAH, 16 OCT 61

CASE includes twelve (12)

ADIABATIC CHARTS



DATA BLOCK A

			PRESSURE (Corrected)	PRESSURE (Uncorrected)	TEMPERATURE (Uncorrected)	TEMPERATURE (Corrected)	RELATIVE HUMIDITY (Uncorrected)	RELATIVE HUMIDITY (Including Correction)	DEW POINT	Height of Standard Isobaric Surface
		1		879		85		79	50	
11	2	2	05	63	67	76	67	43	3	10493
22	0	3	96	74	09	01	06	24	08	2902
33		4	93	74	09	10	10	37	32	
44		5								
		6	41	50	62	76	44	(64)	46	
	0	7	52	41	05	20	46	(79)	46	20502
		8								
		9								
		10								
		11								
		12								
		13								
		14								
		15								

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

WBAN 21

BASELINE CHECK READINGS

	TEMPERATURE			
Time	Ordinate			
10 Mar	9	2	46	51

RELATIVE HUMIDITY

Ordinate			
	6		46

CODED MESSAGE FOR TRANSMISSION

REMARKS

SURFACE OBSERVATION AT RELEASE

PRESSURE				CONTACT	
Station	Corrected to Sea Level	Tie Station		Sat. Cloud	Recovery Position
Mb	Mb	Mb	Mb		
24	1024		23	X	

TEMPERATURE		RELATIVE HUMIDITY	WIND	
Dry	Wet		Direction	Speed
41		77	10	27

CLOUDS AND WEATHER

6

LEGEND FOR CONSTANT PRESSURE BLOCKS

DATA AS TRANSMITTED	DATA AS ENTERED ON PUNCHED CARD	
00 mb	1000 mb	10,000 m
850 mb	850 mb	1,500 m
700 mb	700 mb	3,000 m
500 mb	500 mb	5,500 m

LEGEND FOR PLOTTED CURVES

T — Temperature (°C)

Drawn by K. D. Crandall

Verified by

Inspected by

DATE AND RELEASE TIME

	Year	Month	Day	Time
10 Mar	1951		10	0430
GCT				1730

Radiosonde No. [illegible] Assembly No. 542

Station

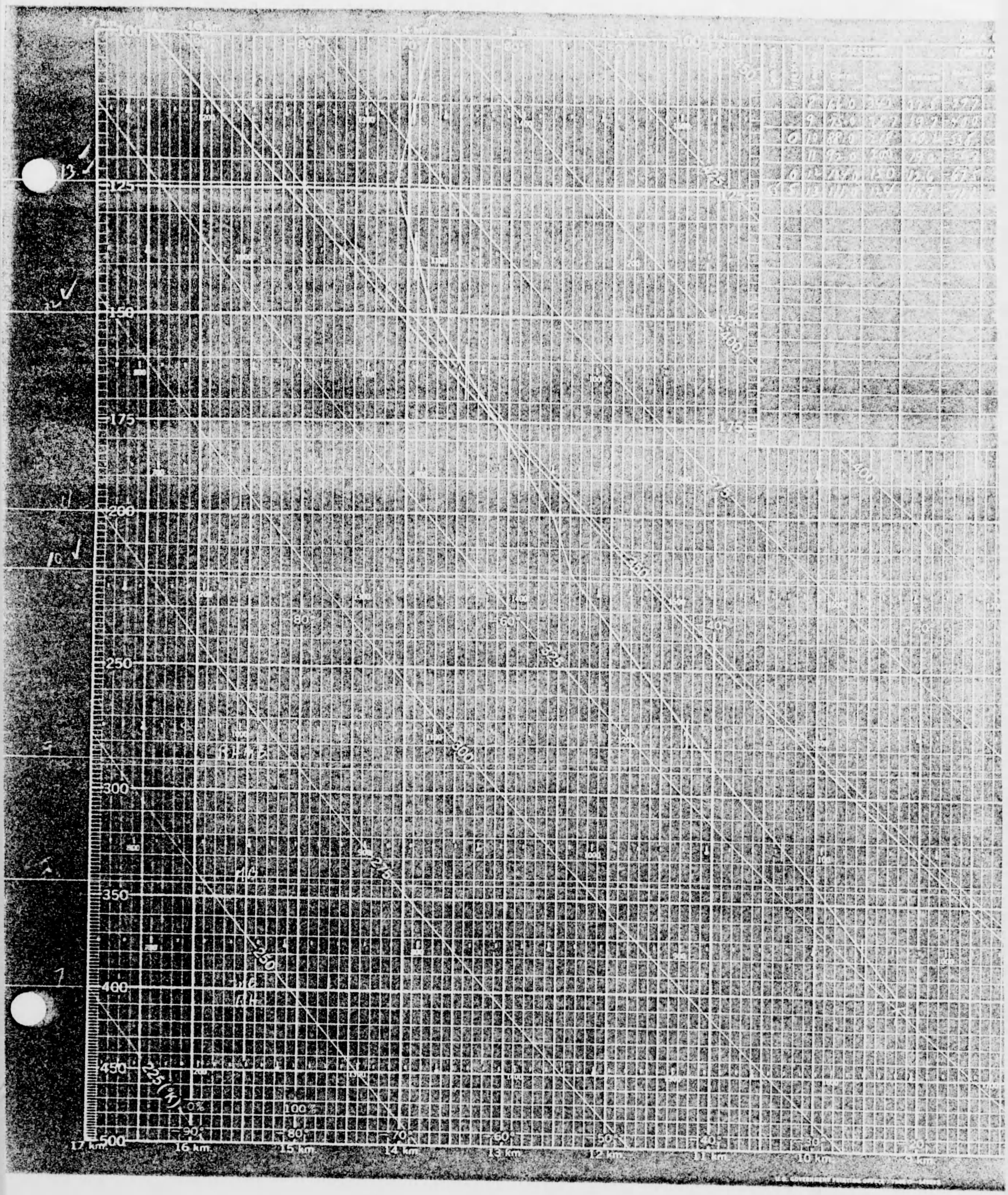
Lat.

Prepared by the Upper Air Section
Washington, D.C. 1951

SYNOPTIC ORIGINAL

SYNOPTIC ORIGINAL

4 km 3 km 2 km 1 km MSL


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
100%
90%
80%
70%
60%
50%
40%
30%
20%

DATA BLOCK B

PRESSURE | TEMPERATURE | REL. HUM. | DEW POINT

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

CODED MESSAGE FOR TRANSMISSION

LEGEND FOR CONSTANT PRESSURE BLOCKS

DATA TRANSMITTED	DATA ENTERED ON PUNCHED CARD	
Pressure		
Temperature (dry bulb)		
Dewpoint		

LEGEND FOR PLOTTED CURVES

PA—Pressure Altitude

T—Temperature °C

RH—Relative Humidity (%)

Drawn by

Verified by

Inspected by

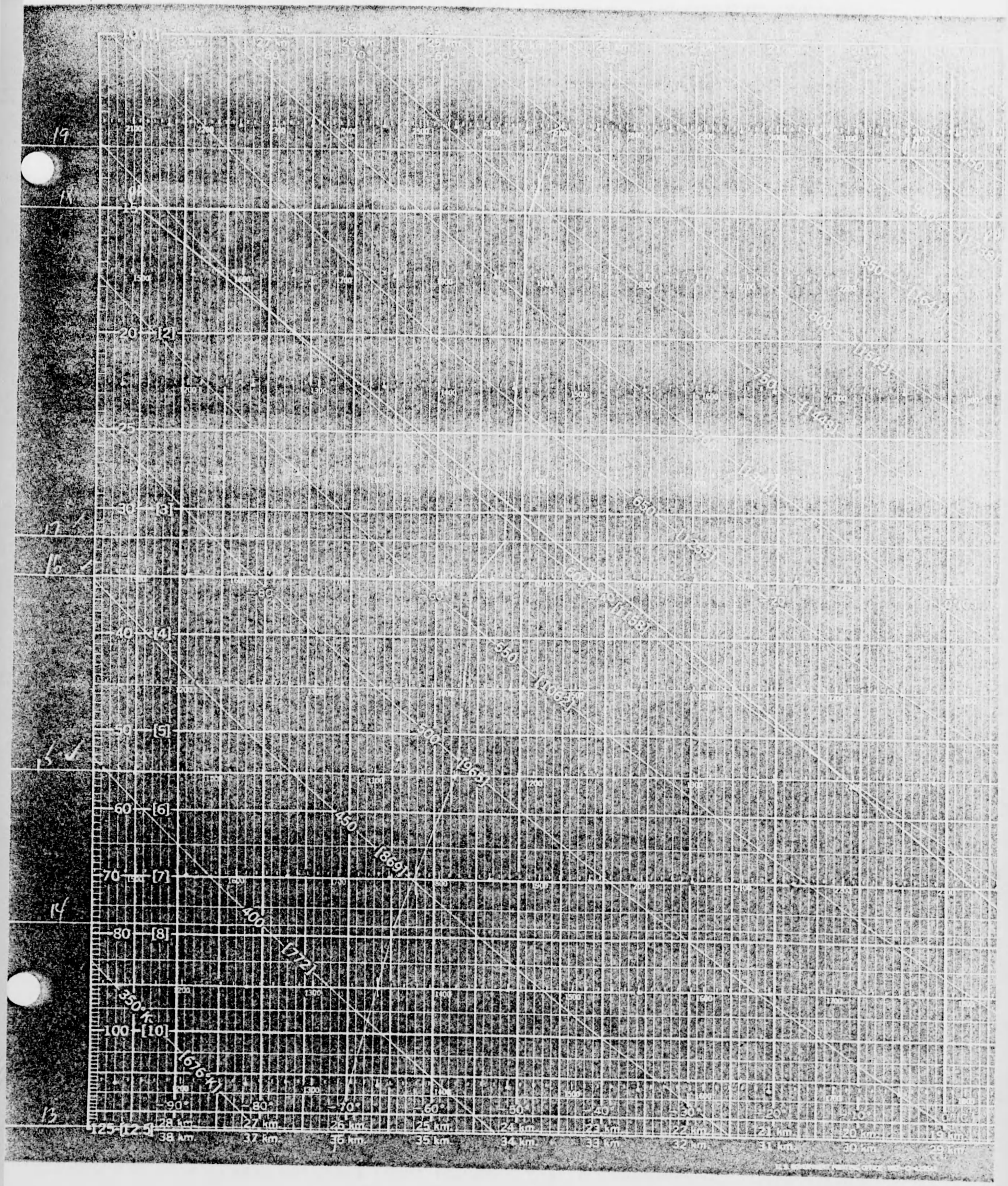
DATE AND RELEASE TIME

	Year	Month	Day	Hour
GCT				

Radiosonde No. Ascension No.

PUNCHED CARD No.

Prepared by
Weather Bureau


19
18
17
16
15
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20 [2]
25 [3]
30 [3]
40 [4]
50 [5]
60 [6]
70 [7]
80 [8]
100 [10]
125 [12.5]
1400
1500
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1800
1900
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2500
2600
2700
2800
2900
3000
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3900
4000
4100
4200
4300
4400
4500
4600
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4800
4900
5000
5100
5200
5300

W B Form 610-31C (Revised 4-157)

WBAN-31C

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

Constant Pressure Blocks

PUNCHED CARD No. 16

PUNCHED CARD No. 15

PUNCHED CARD No. 14

PUNCHED CARD No. 13

DATA BLOCK C

Hour Block	Minute Block	Sec. Block	PRESSURE: Contact	PRESSURE: mb	TEMPERATURE: Dekagrads	TEMPERATURE: Ascent (°C)	TEMPERATURE: Corr.	TEMPERATURE: Corrected	Altitude of Significant Level or Remarks
		14	1234.0	75	13.9	-6.4.7			
	0	15	1310	55	17.9	-3.7.5			2-120
		16	1370	3	19.0	-3.1.7			
		17	1380	3	21.4	-2.2.0			
		18	1420	7	23.0	-1.9.1			
11	0	19	1484	13	-5.6	-1.7.1			29.62F

REMARKS

LEGEND FOR CONSTANT PRESSURE BLOCKS

DATA AS TRANSMITTED	DATA AS ENTERED ON PUNCHED CARD	
Hours	Altitude (dkms)	Temperature (°C)
Minutes	Direction (degrees)	Wind Speed (mps)

LEGEND FOR PLOTTED CURVES

Dropsonde Altitude Temperature (°C)
Temperature (°C)

Dropsonde

Ascension

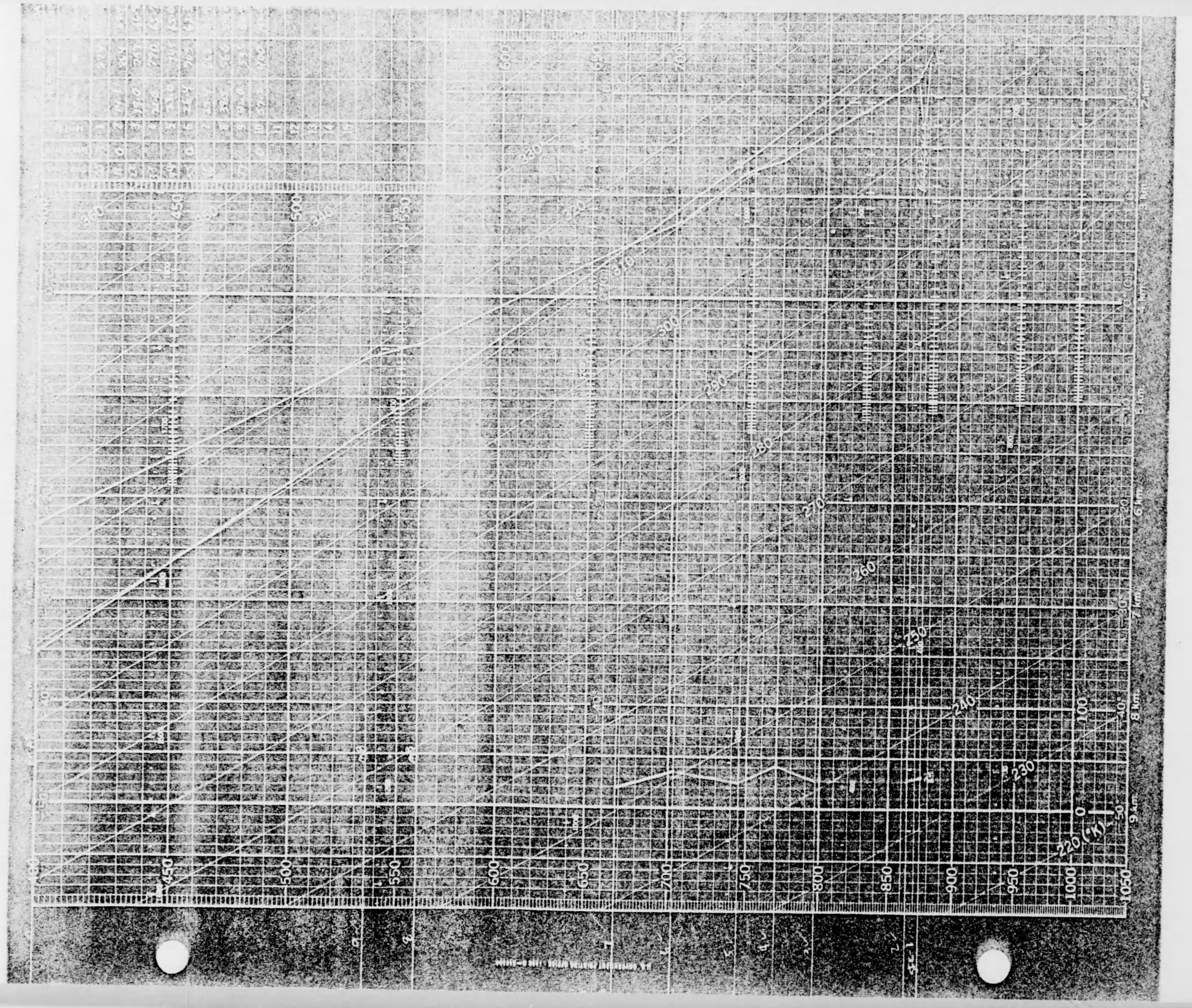
Descension

DATE AND RELEASE TIME

	Year	Month	Day	Time
Ascension	1951	06	16	0700
Descension				1100

Radiosonde No. 126952X Ascension No. 577

Section



WBAN-31A

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

DATA BLOCK A

Time (GCT)	Min.	Sec.	Pressure Station (Inches)	Pressure mb	Temperature Ordinary °F	Temperature Actual °F	Rel. Hum. Ordinary %	Rel. Hum. Depression of Dew Point °C	Dew Point °C	Altitude of Standard Isobaric Surface or Remarks
00	3	1		974		73.9		31	-5.7	1453
11	0	2	29.3	964	64.4	71.9	53	2.8	-3.4	1599
12		3	28.0	947	66.9	76.0	40	2.7	-5.0	
17		4	27.0	920	65.2	78.6	28	4.1	-6.6	
18		5	27.0	915	65.0	77.0	30	3.5	-7.1	
55	0	6	26.4	895	62.3	74.9	34	3.5	-7.1	2190
4		7	25.4	862	60.9	71.9	50	1.9	-4.8	
		8	31.5	960	57.8	62.7	MD	(2)	MB	
17		9	29.0	935	57.0	70.1	MD	(2)	MB	
	0	10	28.2	900	49.0	52.7	MD	(2)	MB	1524
		11								
		12								
		13								
		14								
		15								

SURFACE OBSERVATION AT RELEASE

Pressure: Station (Inches)	Pressure: Station (mb)	Pressure: Correction to Sea Level (mb)	Pressure: Sea Level (mb)	Contact: Call Letters	Contact: Reporting Office
29.54	974.1	0	974.1	KGSB	TCM

Temperature: Dry	Temperature: Wet	Relative Humidity: Wet	Wind: Direction	Wind: Speed
73 °F	66 °F	71	NW	5

CLOUDS AND WEATHER

Clear

Constant Pressure Blocks

30468	7524	-2.7
22447	(7)	MB
03519	1529	1.9
6640	-11.0	
(17)		
2582	07	
5080	-10.0	
60X20	(15)	MB
03310	2217	05
5100	-3.3	
(15)		
3333	06	
9110	-1.0	
(10)		
3271	03	
13750	3.4	
(02)		
2250	01	
10035	3.66	2.1
07523	21	2.2
03502	19	01
9030	2.4	
9000	2.1	
8500	2.3	
8000	1.8	
7500	1.2	
7000	1.1	
6500	40	
6000	1.1	
5500	1.2	

BASELINE CHECK READINGS

Time (GCT)	Pressure	Temperature: Dry	Temperature: Wet
2245	715	761	2217

Relative Humidity: Dry	Relative Humidity: Wet	Relative Humidity: Dew Point	Psychrometer Used
817	70	+2	72

CODED MESSAGE FOR TRANSMISSION

517	23075	55502	24011	07525
10039	07523	01503	50971	00000
03310	70000	72727	03519	72039
55551	09130	55512	99999	07136
24011	00000	07133	15605	15241
07525	10103	15051	09911	55555
01524	21051	16824	21024	07111
16510	31010	01505	99999	10511
51511	00000	00000	01000	00000
11111	51051	00000	41511	21021

REMARKS

LEGEND FOR CONSTANT PRESSURE BLOCKS

Data as Transmitted: Data	Data as Entered on Punched Card: Altitude (dam)	Data as Entered on Punched Card: Temperature (°C)
	Humidity (%)	Dew Point (°C)
	Direction (degrees)	Speed (knots)

LEGEND FOR PLOTTED CURVES

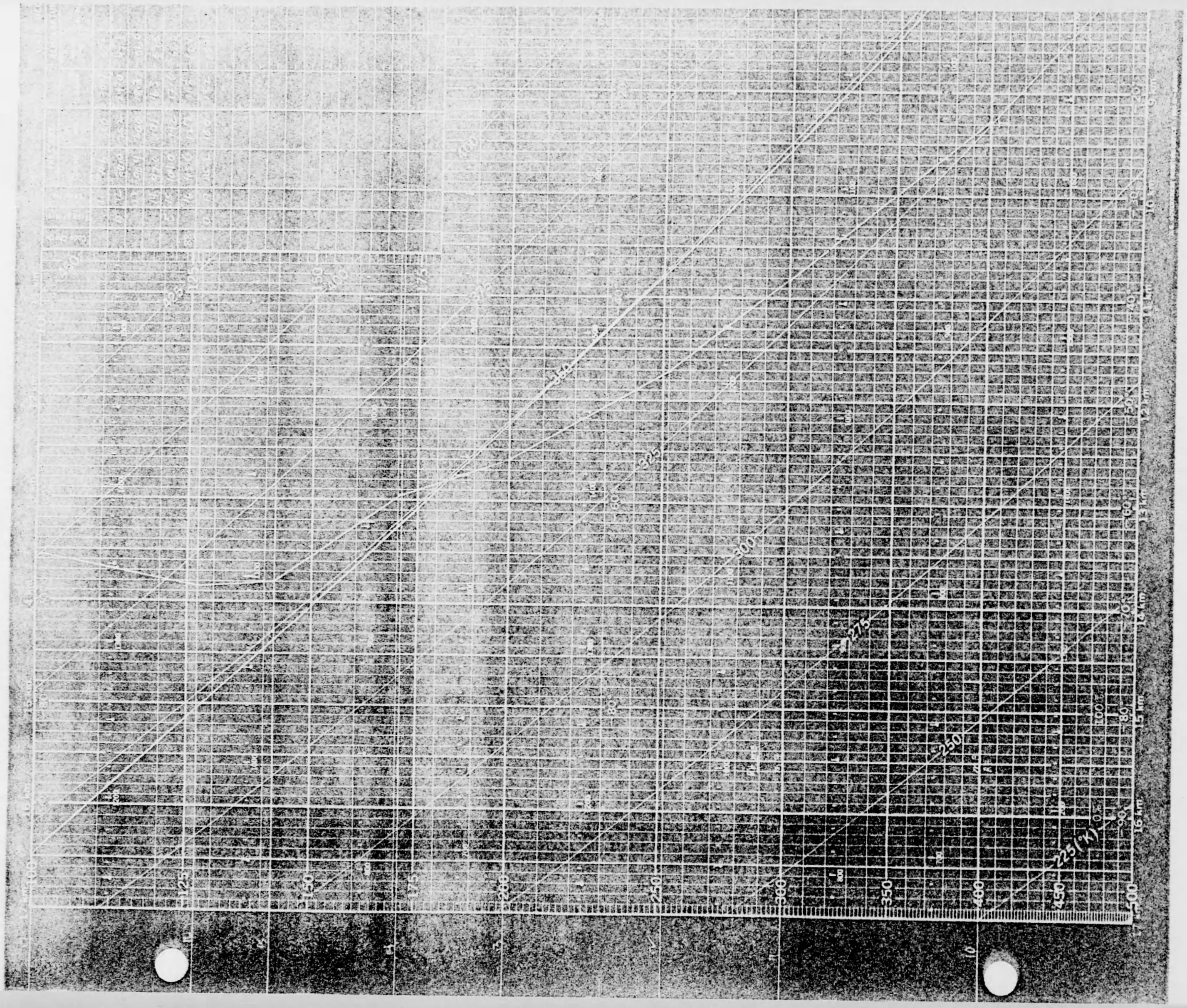
Temperature (°C) RH—Relative Humidity (%)

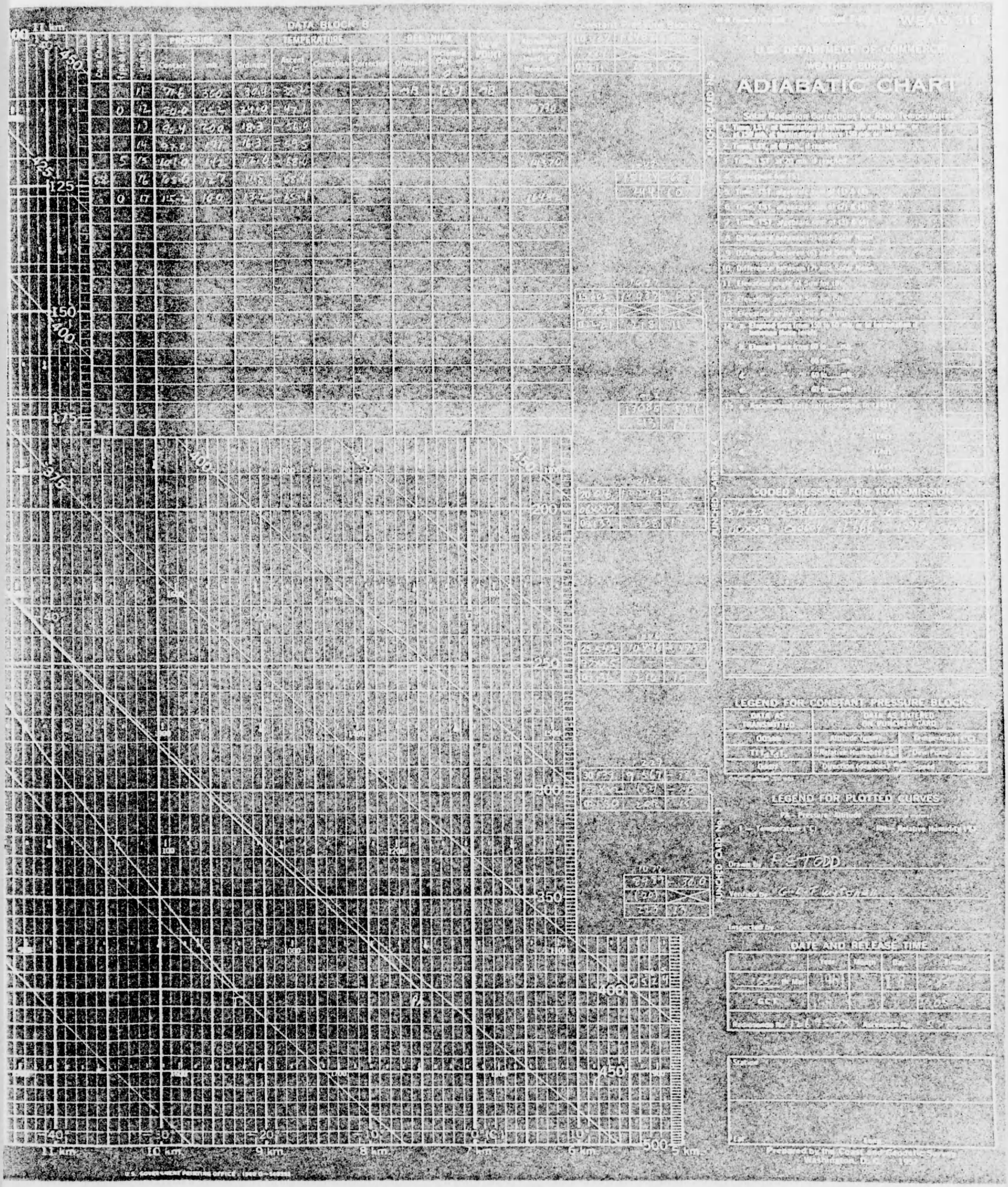
DATE AND RELEASE TIME

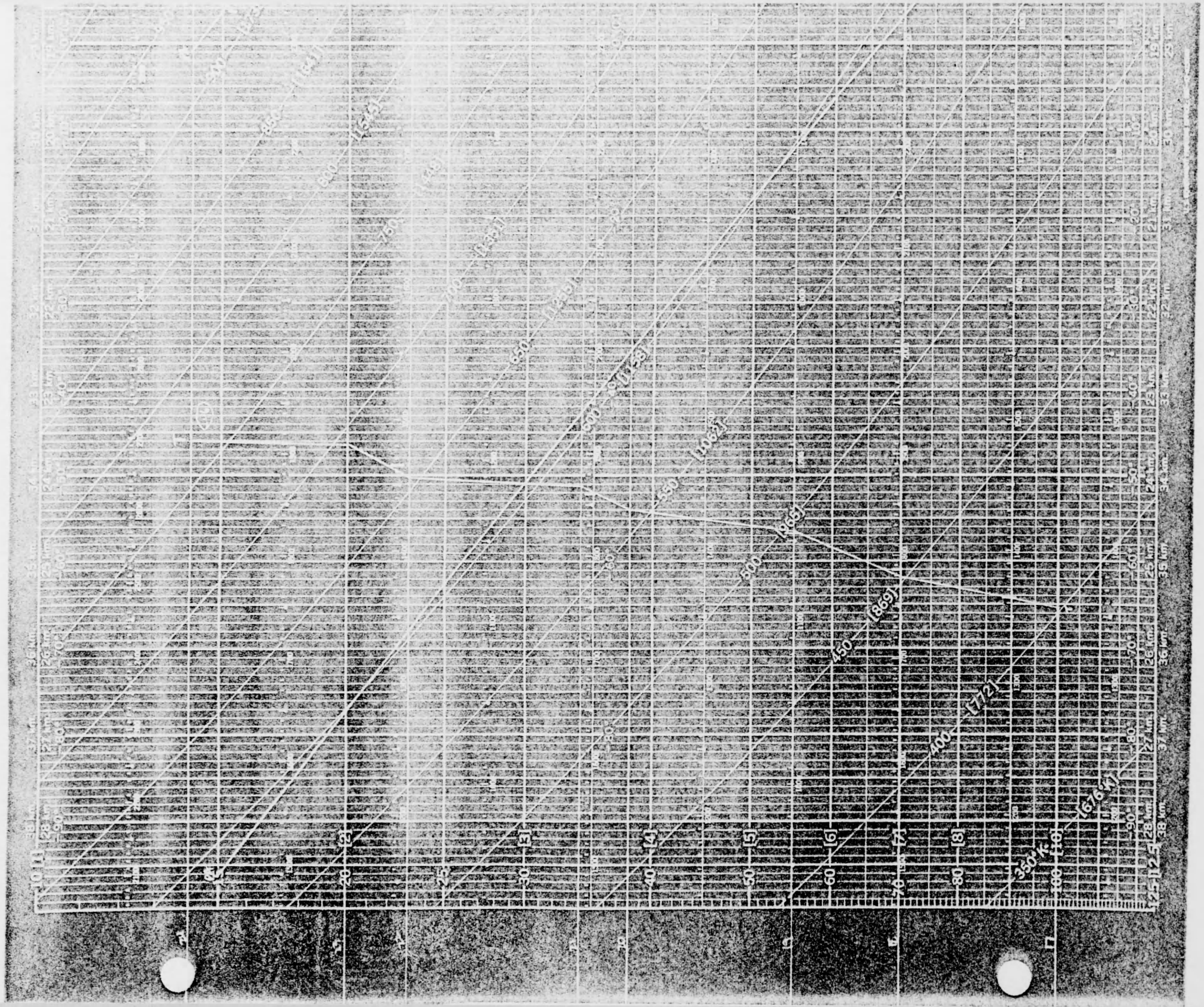
	Year	Month	Day	Time
	1961	06	15	1645
	61	6	15	2345

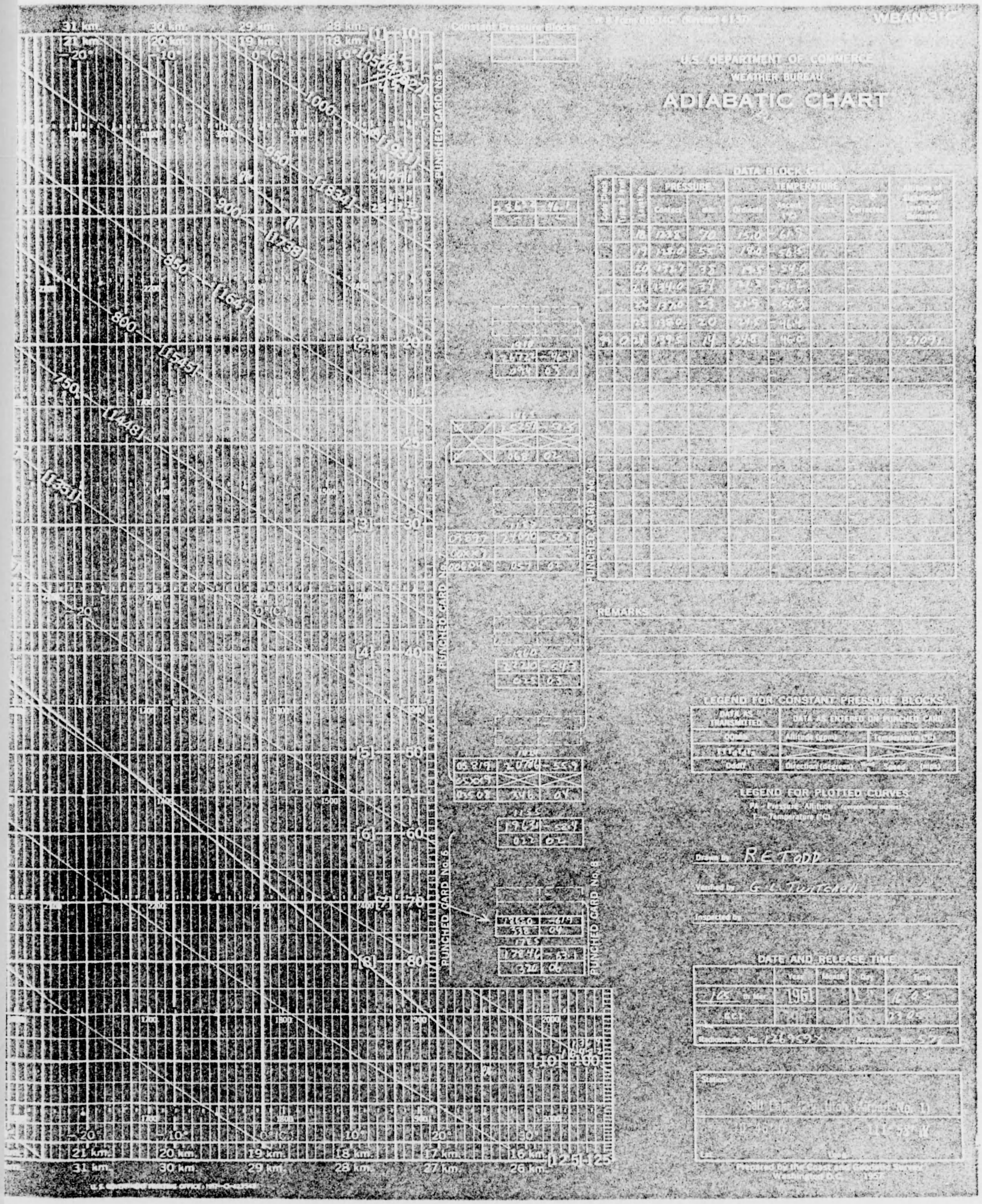
Station

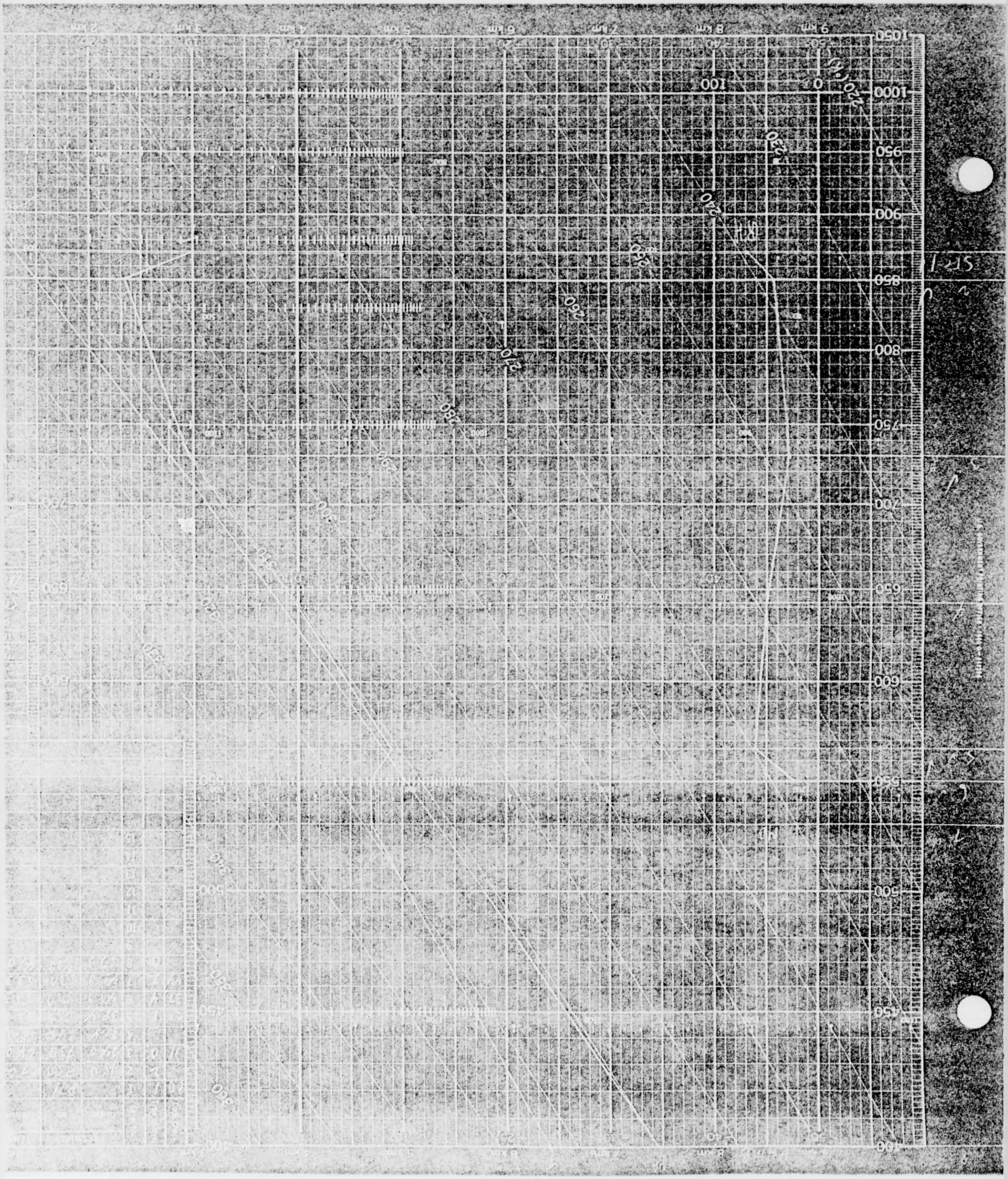
PUNCHED CARD DATA




DATA BLOCK B
WBAN 310
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
U.S. GOVERNMENT PRINTING OFFICE : 1940—O-320881




U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
DATA BLOCK
PRESSURE
TEMPERATURE
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
DATA AS TRANSMITTED
DATA AS ENTERED ON PUNCHED CARD
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
Year
1961
PUNCHED CARD No. 6
PUNCHED CARD No. 8
31 km.
30 km.
29 km.
28 km.
27 km.
26 km.



DATA BLOCK A

PRESSURE

TEMPERATURE

DEW POINT

SURFACE OBSERVATION AT RELEASE

PRESSURE

CONTACT

TEMPERATURE

RELATIVE HUMIDITY

WIND

CLOUDS AND WEATHER

U.S. DEPARTMENT OF COMMERCE

WEATHER BUREAU

ADIABATIC CHART

BASELINE CHECK READINGS

RELATIVE HUMIDITY

CODED MESSAGE FOR TRANSMISSION

REMARKS

LEGEND FOR CONSTANT PRESSURE BLOCKS

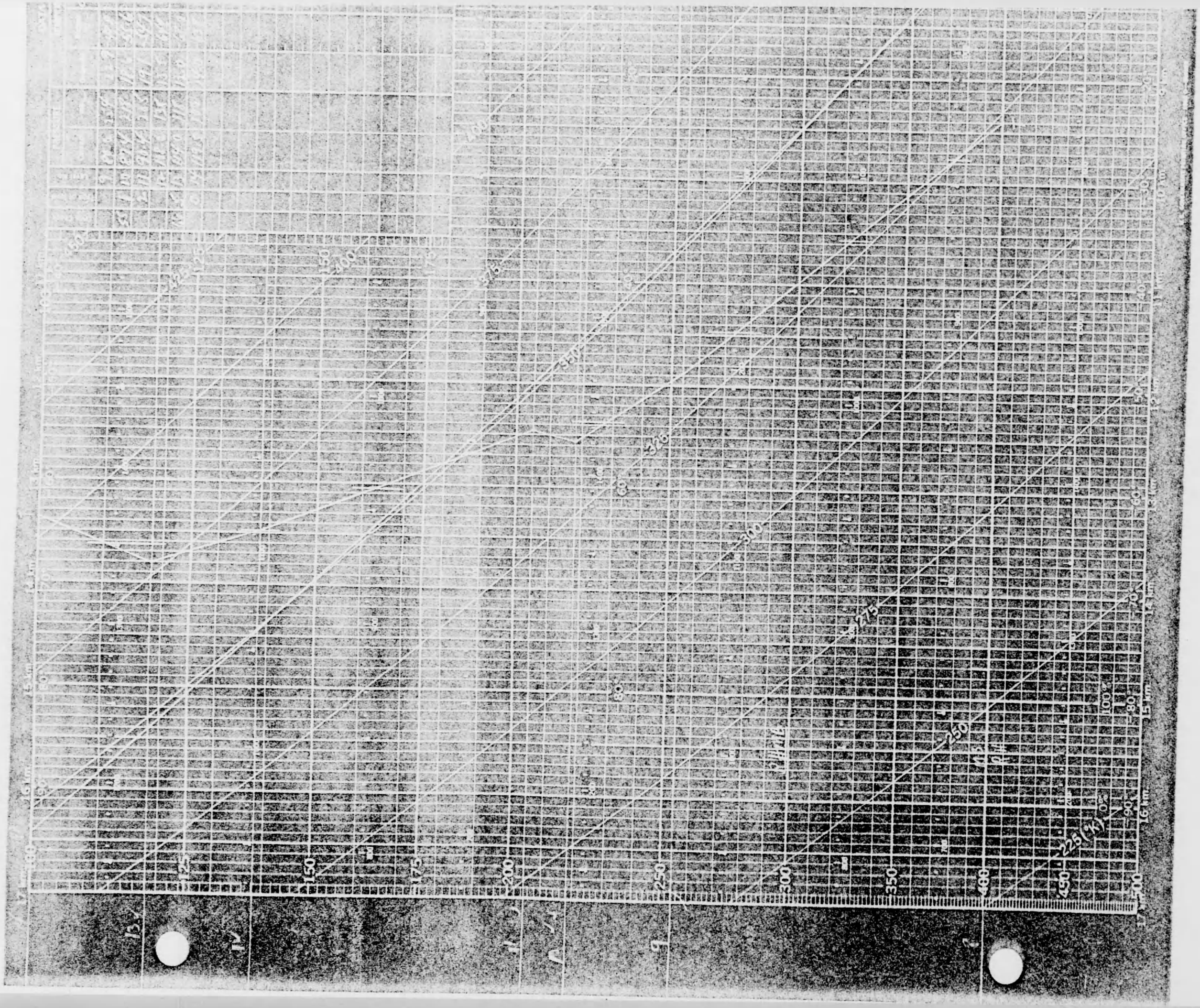
LEGEND FOR PLOTTED CURVES

DATE AND RELEASE TIME

100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 1050

30 mb 25 mb 20 mb 15 mb 10 mb 5 mb

3 km 2 km 1 km MSL



DATA BLOCK 8

Data Block	Hour	Minute	PRESSURE Observed mb	PRESSURE Millibars	TEMPERATURE Ordinate °C	TEMPERATURE Actual °C	TEMPERATURE Correction	TEMPERATURE Corrected	WET BULB Ordinate	WET BULB Indicated °C	DEW POINT °C	Altitude of Pressure Surface Meters
		9	881.0	735	22.9	19.8						
25	1	10	877.4	718	18.6	-5.6						1160
	2	11	873.4	696	19.1	-5.7						1340
		12	869.8	678	18.1	16.9						
66	5	13	864.0	648	17.0	-6.0						1550
0	14	14	859.5	626	17.0	-5.8						1671

Corrected Pressure Elevation

10	1111	1111
15		
04	1119	1119
1160		
1340	1340	1340
92		
1550	1550	1550
1671	1671	1671
94		
1111	1091	1091
1340		
1550	1550	1550
1671	1671	1671
1091		
1550	1550	1550
1671	1671	1671

WBAN-31B

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

Solar Radiation Corrections for Read Temperatures

CODED MESSAGE FOR TRANSMISSION

LEGEND FOR CONSTANT PRESSURE BLOCKS

DATA AS TRANSMITTED	DATA AS ENTERED ON PUNCHED CARD	
00		
11 (01)	Relative Humidity (RH)	Dew Point (DP)
00		

LEGEND FOR PLOTTED CURVES

P — Pressure - Millibars

T — Temperature (°C)

RH — Relative Humidity (%)

Drawn by: R. L. Durand

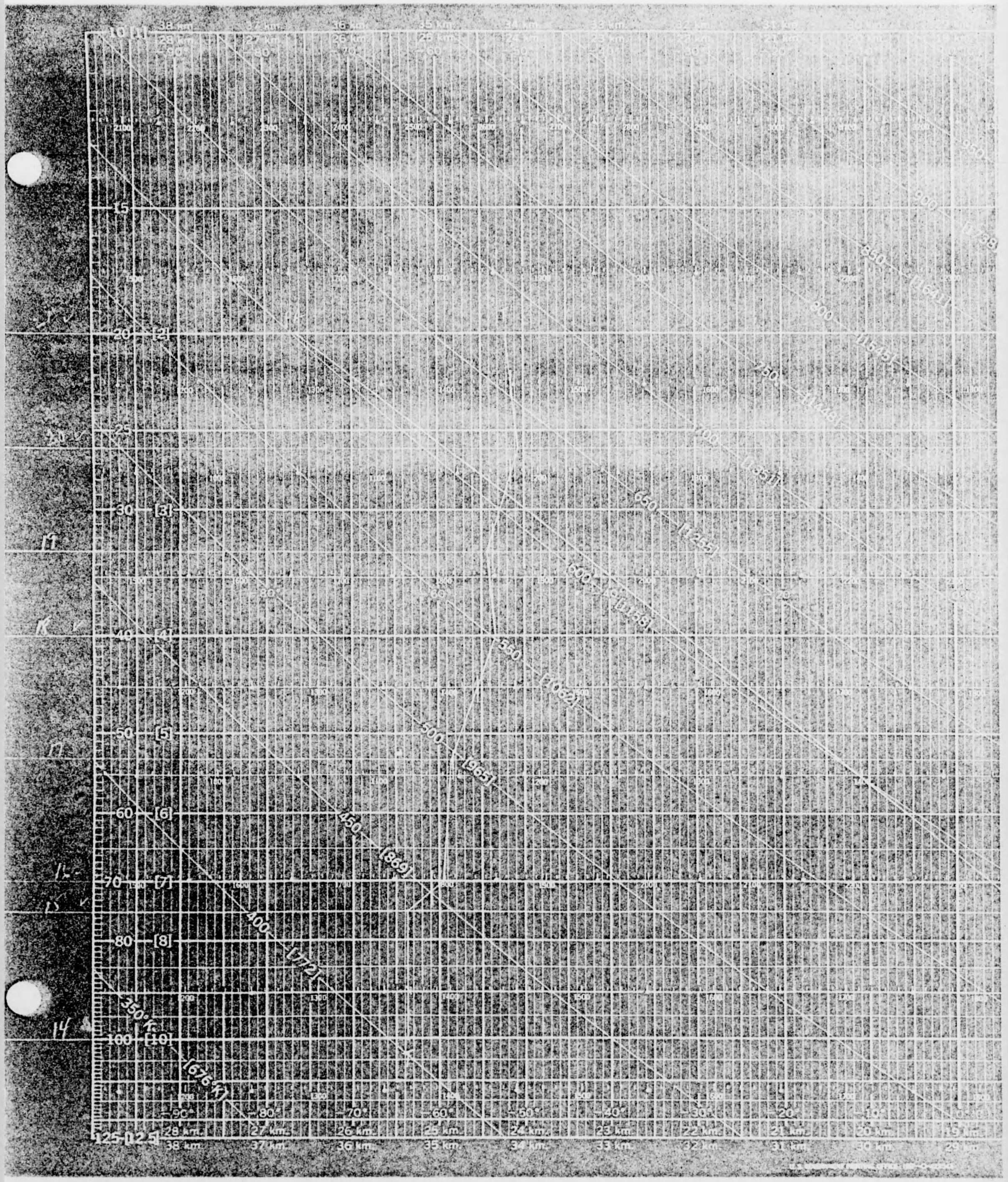
Verified by:

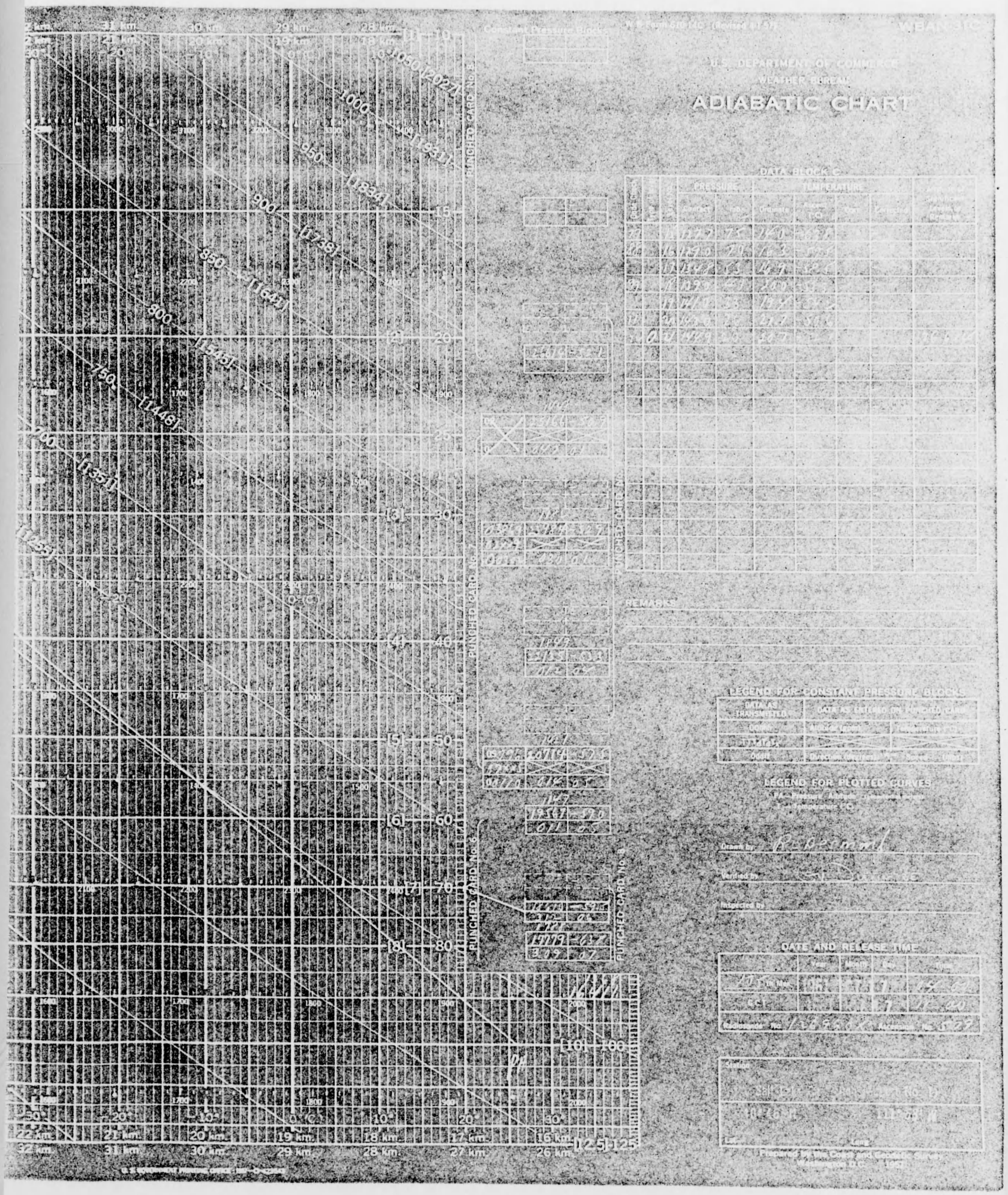
Inspected by:

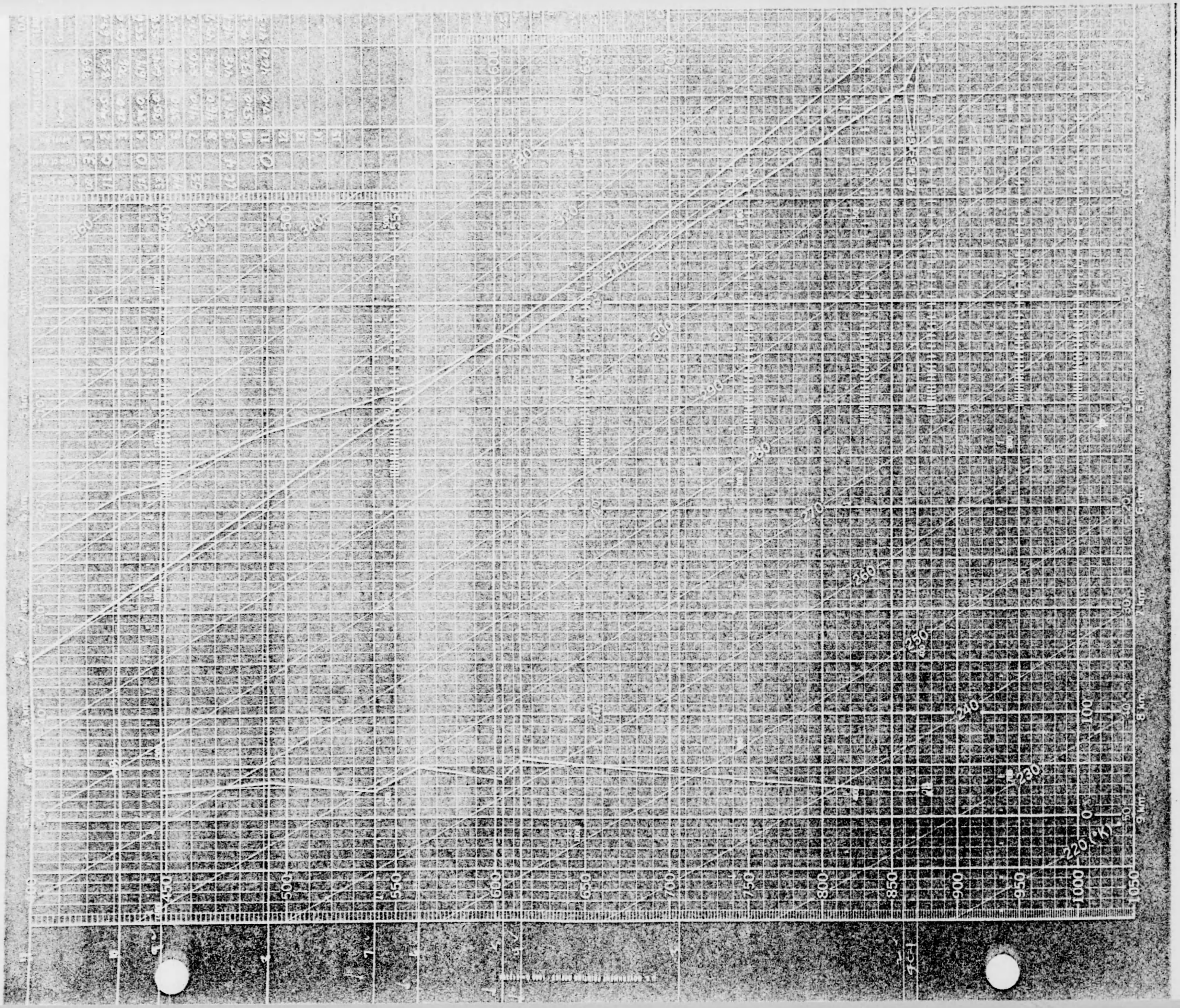
DATE AND RELEASE TIME

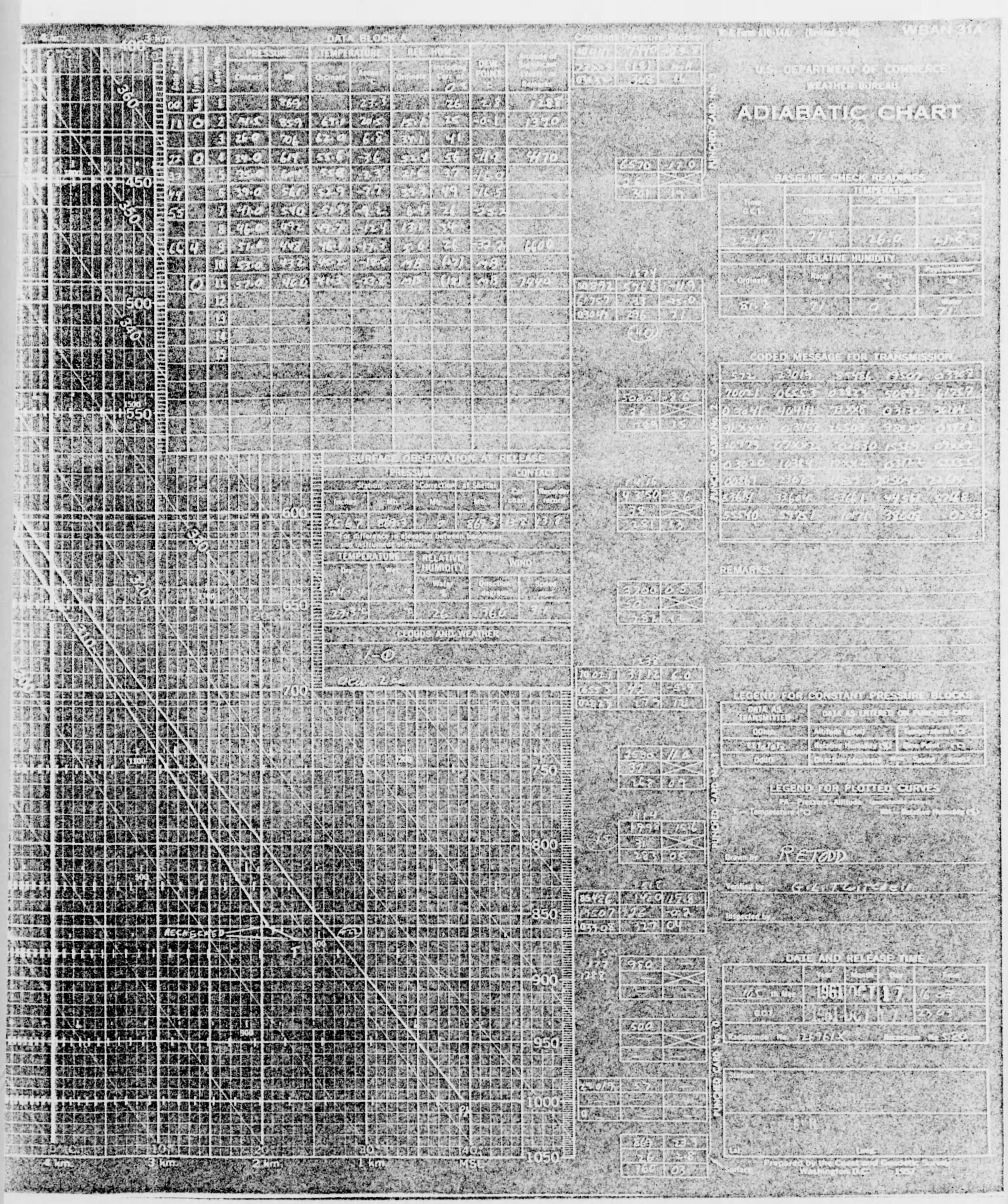
	Hour	Month	Day	Year
10 Mar	1961	03	17	20 GMT
GCT			17	11 20

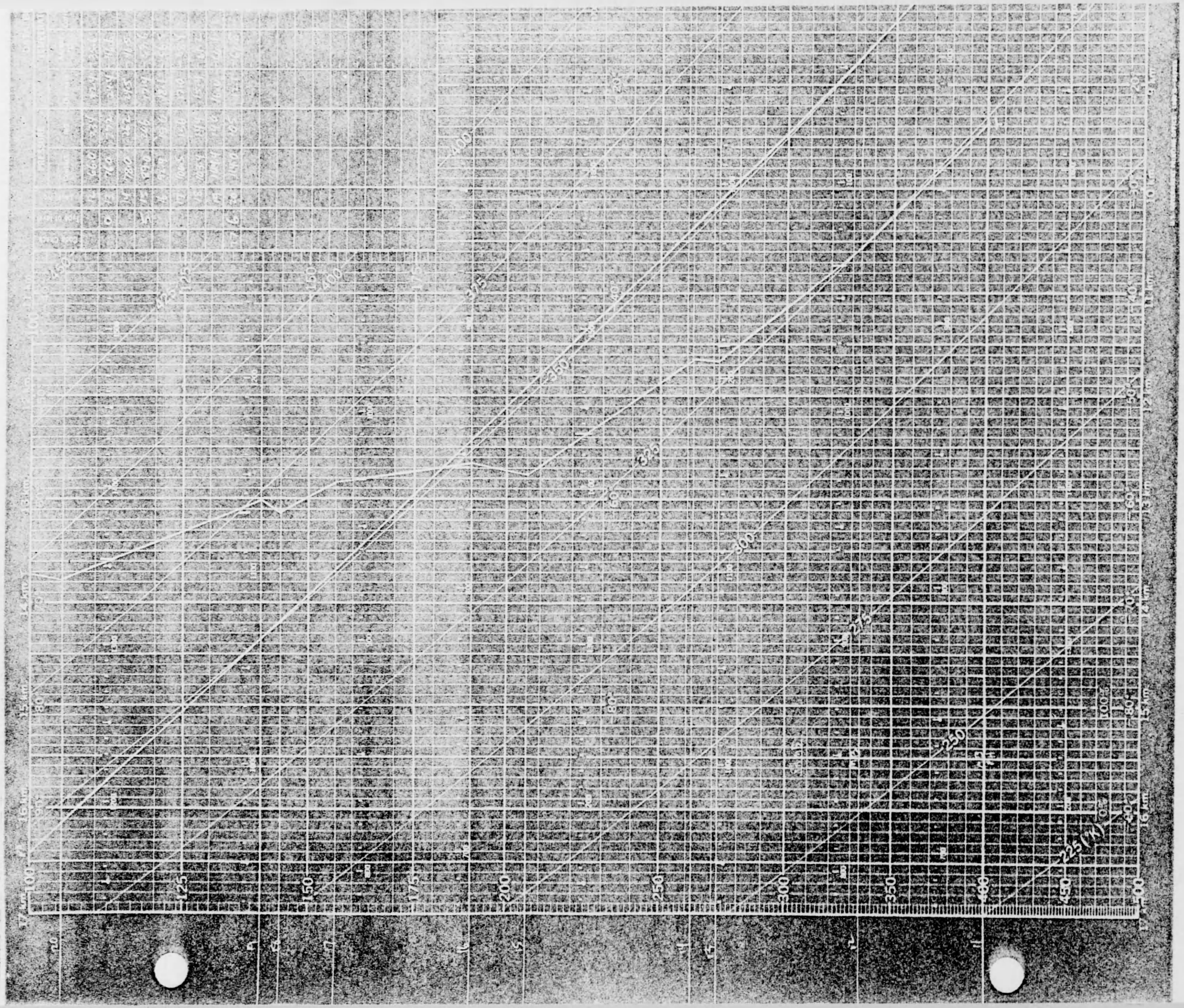
Washington, D.C.




U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
DATA BLOCK C
PRESSURE
TEMPERATURE
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
PUNCHED CARD No. 5
PUNCHED CARD No. 6
PUNCHED CARD No. 7
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
-130
-140
-150
-160
-170
-180
-190
-200
-210
-220
-230
-240
-250
-260
-270
-280
-290
-300
-310
-320
-330
-340
-350
-360
-370
-380
-390
-400




DATA BLOCK
PRESSURE
TEMPERATURE
DEL. HOM.
DEW POINT
SURFACE OBSERVATION AT RELEASE
PRESSURE
CONTACT
TEMPERATURE
RELATIVE HUMIDITY
WIND
CLOUDS AND WEATHER
ADIABATIC CHART
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
BASELINE CHECK READINGS
TEMPERATURE
RELATIVE HUMIDITY
CODED MESSAGE FOR TRANSMISSION
REMARKS
LEGEND FOR CONSTANT PRESSURE TRACES
LEGEND FOR PLOTTED CURVES
Drawn by
Verified by
Inspected by
DATE AND RELEASE TIME
Radiosonde No.
Wind Component Chart
Wind Component Chart
Wind Component Chart



DATA BLOCK B

			PRESSURE		TEMPERATURE				DEW POINT °C	
			Decoded mb	Corrected mb	Decoded °C	Corrected °C	Decoded °C	Corrected °C		
		12	66.0	33.4	33.4	39.6				
	0	13	76.4	37.2	24.4	34.6				16410
		14	78.0	42.5	26.5	41.6				
	5	15	89.6	20.6	17.4	27.4				19410
		16	92.4	19.0	12.1	26.3				
		17	100.5	16.6	17.0	27.4				
		18	103.4	11.4	8.4	20.2				
		19	104.4	14.0	16.0	20.1				
	6	20	119.0	16.5	6.4	6.2				18130

Constant Pressure Blocks

850 mb	1,470 m	15.4 °C
700 mb	3,044 m	0.4 °C

500 mb	5,621 m	-21.1 °C
400 mb	7,316 m	-37.0 °C

300 mb	9,326 m	-52.7 °C
250 mb	10,439 m	-57.5 °C

200 mb	11,784 m	-56.5 °C
150 mb	13,520 m	-56.5 °C

100 mb	16,180 m	-56.5 °C
70 mb	18,410 m	-56.5 °C

50 mb	20,576 m	-56.5 °C
30 mb	23,842 m	-56.5 °C

20 mb	26,486 m	-56.5 °C
10 mb	31,055 m	-56.5 °C

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

Add Radiation Corrections to Above Temperatures °C

1. Time (GCT) of Release
2. Time (GCT) of Fix
3. Time (GCT) of Burst
4. Time (GCT) of Sunset
5. Time (GCT) of Sunrise
6. Difference between Sunset and Sonde Noon
7. Time (GCT) of Sonde Noon
8. Difference between Sunrise and Sonde Noon
9. Elevation Angle of Sun for Fix
10. Elevation Angle of Sun for Burst
11. Elevation Angle of Sun for Sunset
12. Elevation Angle of Sun for Sunrise

CODED MESSAGE FOR TRANSMISSION

LEGEND FOR CONSTANT PRESSURE BLOCKS

DATA AS TRANSMITTED	DATA AS ENTERED ON PUNCHED CARD
Height	Altitude
Temperature	Temperature
Dew Point	Relative Humidity

LEGEND FOR PLOTTED CURVES

Pressure Altitude
Temperature °C
Relative Humidity %

Drawn By R.E. Todd

Verified By C. L. Mitchell

Inspected By

DATE AND RELEASE TIME

	Year	Month	Day	Hour
Date of Flight	1961			
GCT				

Radiosonde No. Fix Type Reflector No.

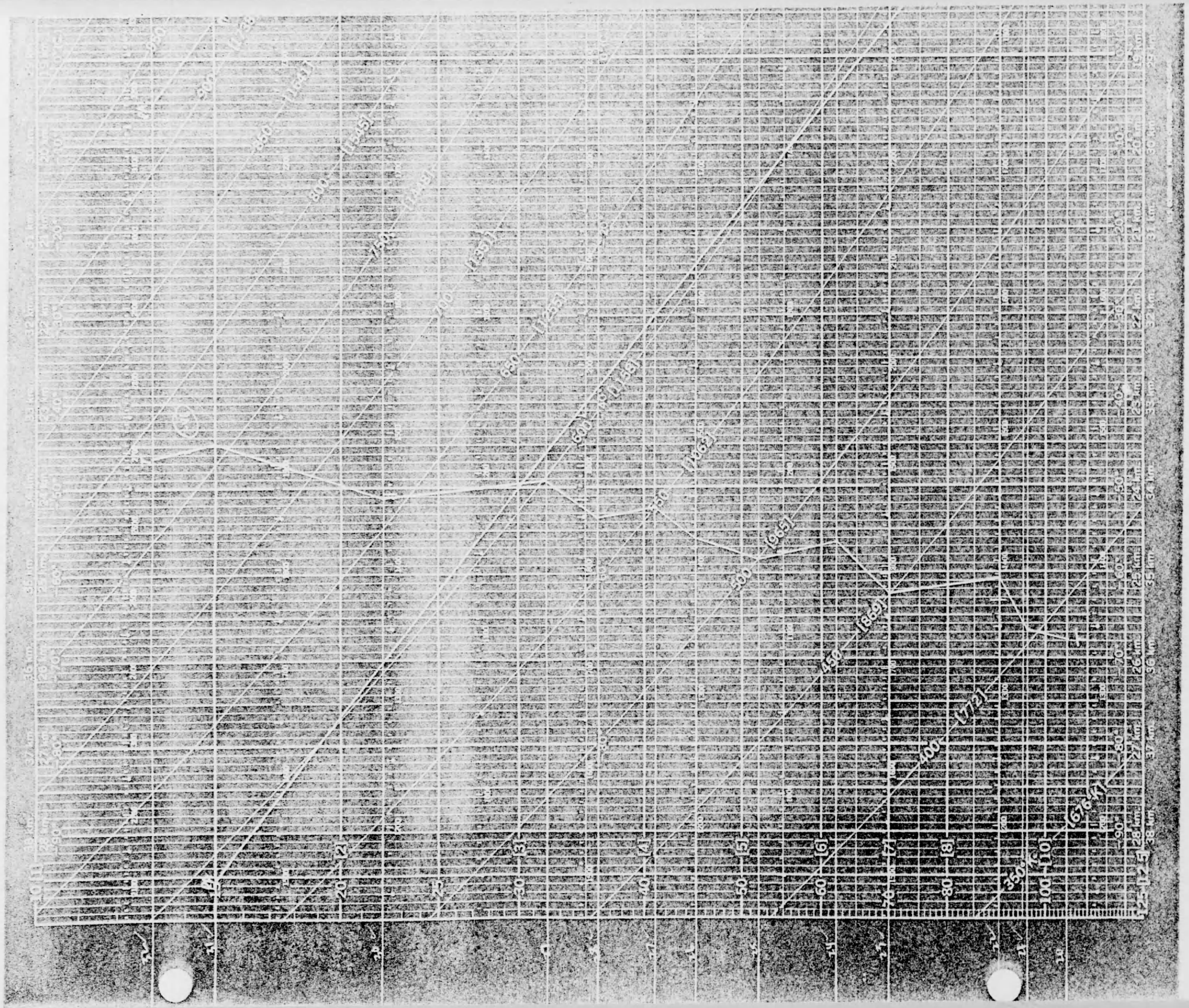
Station

Sonde

Time

Location

Published by the Geophysics Research Directorate
Air Force Cambridge Research Laboratories



W B Form 618 (10-57)

WBAN/SIC

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

Constant Pressure Blocks

PUNCHED CARD No. 1

PUNCHED CARD No. 2

PUNCHED CARD No. 3

PUNCHED CARD No. 4

PUNCHED CARD No. 5

DATA BLOCK C

Check Digit	Sign Bit	Level No.	PRESSURE		TEMPERATURE				
			Decade	Mb	Decade	°C			
07		21	116.5	96	12.4	4.3			
79	0	22	110.0	90	15.6	6.2			17756
11		23	103.1	70	11.7	6.5			
22		24	93.0	62	17.1	3.5			
		25	72.7	52	12.0	3.4			
		26	81.0	45	11.1	5.0			
31		27	77.0	41	2.6	5.7			
44		28	73.5	36	5.9	3.3			
		29	69.2	32	2.6	4.5			
55		30	65.2	28	2.4	3.2			
66		31	61.4	25	5.2	4.1			
77	0	32	58.0	23	5.4	4.4			27571

REMARKS

LEGEND FOR CONSTANT PRESSURE BLOCKS

Check Digit	Sign Bit	Level No.	Pressure (Mb)	Temperature (°C)			
Transmitted							
00 thru 49							
50 thru 99							
Blank							

LEGEND FOR PLOTTED CURVES

Name R & Todd

Date and Release Time

Skill (%)