

1. DATE - TIME GROUP 28 Dec 53 1155Z/28 Dec	2. LOCATION Marysville, Calif
3. SOURCE Civilian	10. CONCLUSION UNIDENTIFIED Jet with afterburner ruled out since observer too close to obj not to hear sound and have illusion of hovering.
4. NUMBER OF OBJECTS one	
5. LENGTH OF OBSERVATION 1½ minutes	
6. TYPE OF OBSERVATION ground vis	11. BRIEF SUMMARY AND ANALYSIS Saucer shape, size of baseball, brilliant bluish light which did not radiate, observer saw reflection of light from obj on nearby filling station bldg, Est speed 140-190 mph, hovered momentarily, moved north and faded into night. Obj was 300 ft alt before drop to 100-150 ft alt, hovered over airport.
7. COURSE - - -	
8. PHOTOS <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9. PHYSICAL EVIDENCE <input type="checkbox"/> Yes <input type="checkbox"/> No	
<i>copy for Hynes</i>	

Time entries on this form are 120 to meridian time
 To convert to G.C.T. (add) 3 hours
 Height of barometer 92 ft (MSL)

23206

SURFACE

WMO FORM 10A

TYPE	TIME (LST)	CEILING hundreds of feet AND SEV	VISIBILITY (Miles)	WEATHER AND OBSTRUCTIONS TO VISION	SEA LEVEL PRESS (mb)	TEMP (°F)	DEW PT (°F)	WIND			ALTIMETER SET (mb)	REMARKS AND SUPPLEMENTAL CODED DATA
								DIRECTION	SPEED (Knots)	SPEED (mph)		
1	2	3	4	5	6	7	8	9	10	11	12	13
EK	R 0200	250 (1)	15+		187	40	27	←	10	12	011	300K
EK	R 0230	(1)	15		202	42	33	←	10	12	017	317
EK	R 0300	250 (1)	10		219	41	34	←	5	6	017	11101
EK	R 0326	250 (1)	10		219	40	35	←	5	6	017	
EK	R 0429	(1)	8		217	39	34	→	5	6	017	012 39
EK	R 0530	(1)	8		219	39	33	←	4	5	018	0/963
EK	R 0629	(1)	10		219	40	33	←	9	10	018	
EK	R 0727	(1)	6	H	219	40	31	←	9	10	018	103
EK	R 0828	(1)	6	H	222	40	32		C	C	017	0/933
EK	R 0927	(1)	6	H	230	43	35		C	C	021	
EK	R 1028	(1)	6	H	233	48	36		C	C	022	VSBY SW 28/ 314 39
EK	R 1127	(1)	6	H	224	55	35		C	C	019	0/933
EK	R 1226	(1)	6	H	213	58	35		C	C	016	
EK	R 1328	(1)	6	H	199	59	36	↑	7	8	012	832
EK	R 1427	(1)	6	H	192	60	35	↑	8	9	010	11191
EK	R 1529	250 (1)	6	H	192	60	35	↑	7	8	010	
EK	R 1627	250 (1)	6	H	189	59	37		C	C	009	812 0049 60
EK	R 1729	250 (1)	6	H	184	53	41		C	C	008	11191
EK	R 1828	250 (1)	6	H	173	47	38	↘	9	10	008	
EK	R 1929	250 (1)	6	H	180	45	38	↘	10	12	007	905 0019
EK	R 2029	250 (1)	6	H	180	45	38	↘	14	16	007	11101
EK	R 2130	250 (1)	7		180	44	37	↘	12	14	007	
EK	R 2229	250 (1)	7		184	43	36	↘	7	8	008	402 0019 60
EK	R 2330	250 (1)	7		185	43	37	↘	9	10	008	11101

23206

SURFACE WEATHER OBSERVATIONS

WBAN FORM 108

REMARKS AND SUPPLEMENTAL CODED DATA 13	OBSERVER INITIALS			TIME (LST) 16	STATION PRESSURE (IN) 17	DRY BULB (°F) 18	WET BULB (°F) 19	REL. HUMIDITY (%) 20	TOTAL SKY COVER 21	CLOUDS AND OBSCURING PHENOMENA										
	14A	14B	15							LOWEST LAYER			SECOND LAYER			TOTAL 25	THIRD LAYER			TOTAL 29
										AMT 22	TYPE AND DIR 23	HEIGHT 24	AMT 26	TYPE AND DIR 27	HEIGHT 28		AMT 30	TYPE AND DIR 31	HEIGHT 32	
20K			RS	00	30.00	48.7	40.2	46	4	4	Cs	250	0			4	0		4	0
517			RS	01	30.00	42.2	38.2	69	0	0						0	0		0	0
109			RS	02	30.06	40.9	38.0	77	2	3	Cs	250	0			2	0		2	0
012 39			RS	04	30.05	38.8	36.6	81	0	0						0	0		0	0
0/963			RS	05	30.07	38.6	36.2	79	0	0						0	0		0	0
103			RS	06	30.07	40.0	37.0	75	0	0						0	0		0	0
0/933			RS	07	30.07	39.6	36.7	70	0	0						0	0		0	0
			RS	08	30.08	39.7	36.4	72	0	0						0	0		0	0
			RS	09	30.10	42.6	39.1	73	0	0						0	0		0	0
VSBY SW 28/ 314 39			RS	10	30.15	47.8	42.4	63	0	0						0	0		0	0
0/933			RS	11	30.09	54.7	45.6	41	0	0						0	0		0	0
			RS	12	30.05	58.1	47.2	42	0	0						0	0		0	0
832			RS	13	30.00	59.2	48.1	42	0	0						0	0		0	0
11191			RS	14	30.00	60.3	48.2	38	0	0						0	0		0	0
			RS	15	29.99	59.9	48.1	39	2	2	Cs	250	0			2	0		2	0
812 0049 60			RS	16	29.98	58.6	48.2	44	5	5	Cs	250	0			5	0		5	0
11191			RS	17	29.99	52.8	47.0	64	5	5	Cs	250	0			5	0		5	0
			RS	18	29.97	47.2	42.8	70	4	4	Cs	250	0			4	0		4	0
205 0019			RS	19	29.97	45.4	42.0	75	4	4	Cs	250	0			4	0		4	0
11101			RS	20	29.97	45.2	41.5	76	3	3	Cs	250	0			3	0		3	0
			RS	21	29.97	43.8	40.8	78	1	1	Cs	250	0			1	0		1	0
402 0019 60			RS	22	29.97	43.2	40.2	77	1	1	Cs	250	0			1	0		1	0
11191			RS	23	29.97	42.8	40.0	78	1	1	Cs	250	0			1	0		1	0

SYNOPTIC OBSERVATIONS

TIME (GCT)	TIME (LST)	NO	PRECIP (IN)	SNOW FALL (IN)	SNOW DEPTH (IN)	MAX TEMP (°F)	MIN TEMP (°F)	HEIGHT 850 MB SURFACE	STATE OF GRND	SEA STATE AND DIR	SWELL HEIGHT AND DIR	SWELL PERIOD	SURFACE WIND	WATER TEMP	SOIL TEMP	
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
0000	0000	X	0	0	0	51	29	X	X	X	X	X	X	X	X	X
	0415	1	0	0	0	54	39		1							
	1015	2	0	0	0	48	39		1							
	1615	3	0	0	0	60	48		1							
	2215	4	0	0	0	59	48		1							
0600	0600	X	0	0	0	42	47	X	X	X	X	X	X	X	X	X

SUMMARY OF DAY (MIDNIGHT TO MIDNIGHT)

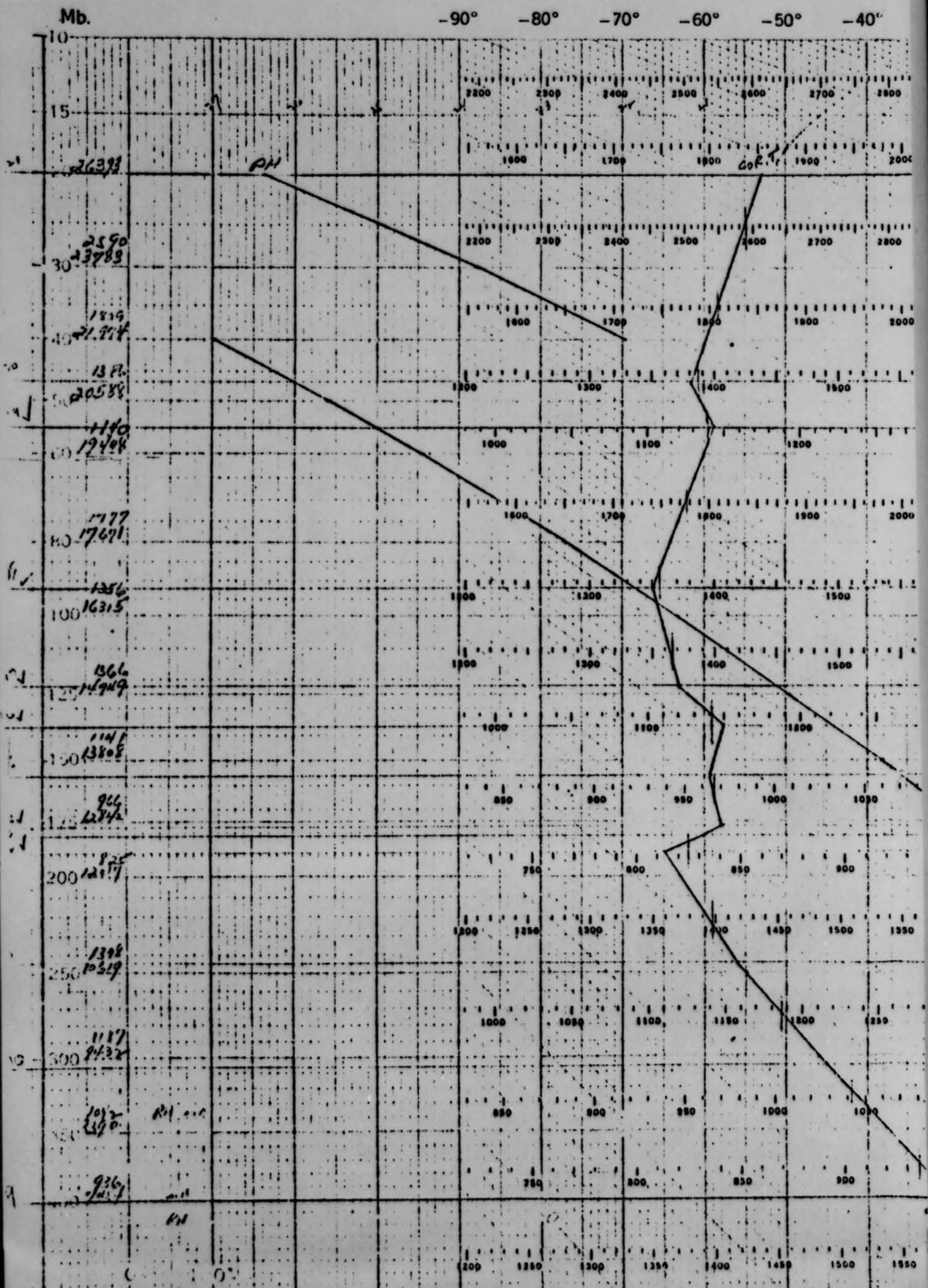
24-HR MAX TEMP (°F)	24-HR MIN TEMP (°F)	24-HR PRECIP. WATER EQUIV. (IN)	24-HR SNOWFALL UNMELTD. (IN)	SNOW DEPTH (IN)	PEAK DUST			THICKNESS OF ICE ON WATER (IN)	FROZEN GRND LAYER (IN)	RIVER GAGE	24-HR MAX R. H. (%)	24-HR MIN R. H. (%)	PRECIP AND THORSTN	BEGAN
66	67	68	69	70	SPEED (mph)	DIRECTION	TIME (LST)	74	75 76	77	78	79	80	81
60	32	0	0	0	25	N	0000	-	- -	-	41	51		

REMARKS, NOTES AND MISCELLANEOUS PHENOMENA

SUNRISE _____ SUNSET _____

ADIABATIC CHART

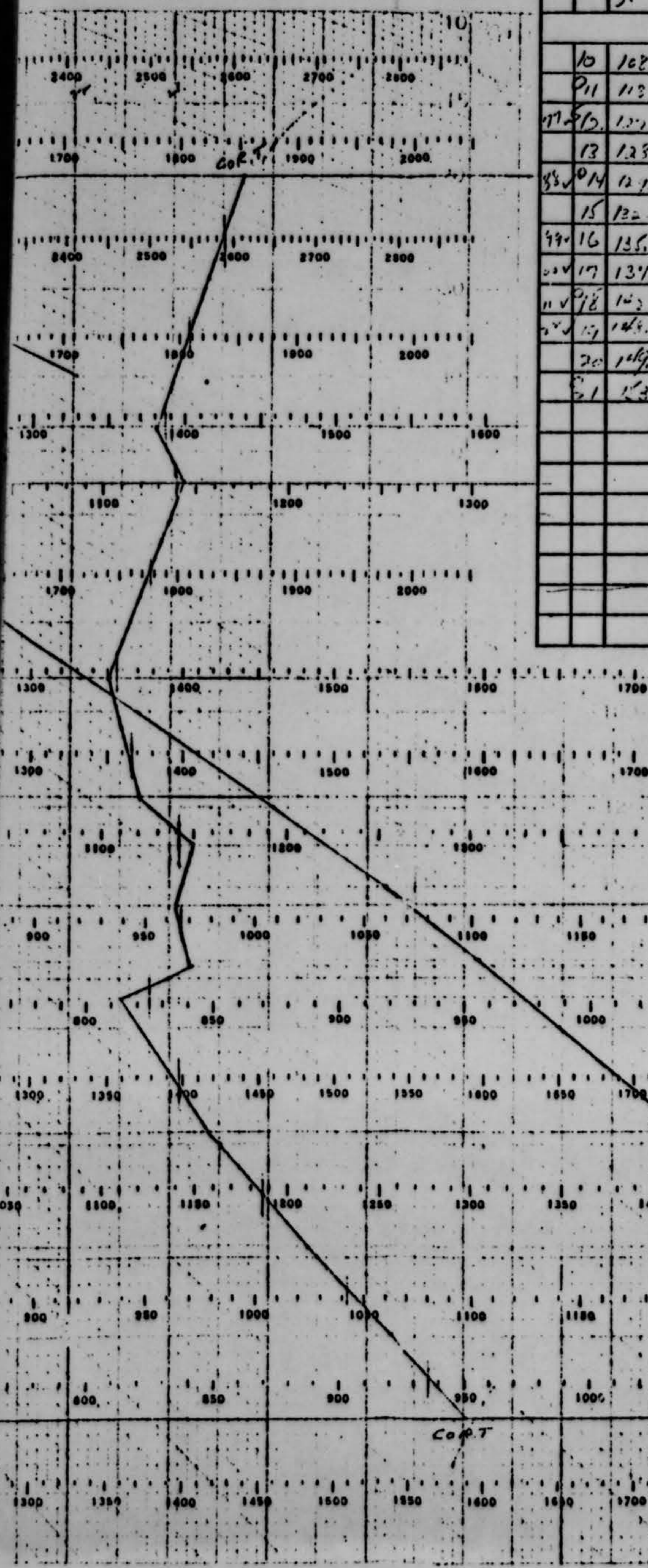
WBAN-31B



STADIOTHERMOCHEMICAL CHART

WBAN-31B

-70° -60° -50° -40° -30°



Code Check	Level No.	PRESSURE		TEMPERATURE				RELATIVE HUMIDITY		C.P.
		Contact	mb.	Ordinate	Ascant (°C)	Correction	Corrected	Ordinate	Including Correction of $\frac{1}{2}$ S	
SIGNIFICANT LEVELS										
	10	102.0	306	27.3	-44.5	-0.7	-45.2			
	11	113.0	254	17.7	-55.0	-0.3	-55.3			
	12	127.0	194	14.6	-65.0	-0.4	-65.4			
	13	133.0	171	17.2	-51.9	0.4	-52.3			
	14	127.0	177	18.6	-51.5	-0.4	-51.9			
	15	132.0	177	17.8	-51.5	-0.4	-51.9			
	16	135.0	177	18.8	-51.1	-0.4	-51.5			
	17	137.4	177	15.6	-62.6	-0.4	-63.0			
	18	143.0	177	14.0	-65.6	-0.5	-66.1			
	19	143.0	177	13.4	-57.7	-0.5	-58.2			
	20	149.2	177	16.9	-63.4	-1.0	-64.4			
	21	153.1	177	22.7	-51.1	-1.8	-52.9			

CODED MESSAGE FOR TRANSMISSION

492.5	303.5	95990	20142
15530	07209	10353	15743
10994	6655	12915	1750
12213	09216	0539	

SOLAR RADIATION RAOB TEM

1. Time, LST, at 200 mb at termination, if bet 400 mb. and 200 mb.
2. Correction for TST.
3. Time, TST, Algebraic sum of (1) and (2).
4. Differences between and solar noon.
5. Elevation angle of s
6. Elapsed time from mb. to terminating
7. Ascensional rate

DATA BLOCK B

Code Check	Level No.	PRESSURE		TEMPERATURE			RELATIVE HUMIDITY		DEW POINT	REMARKS
		Contact	mb.	Ordinate	Ascent (°C)	Correction	Corrected	Ordinate	Including Correction of	
		S.								
SIGNIFICANT LEVELS										
	10	102.0	306	27.3	-4.5	-0.2	-4.3			
	11	113.0	324	17.7	-5.8	-0.3	-5.5			10750
	12	122.0	41	14.6	-5.5	-0.4	-5.1			12240
	13	128.0	151	14.2	-3.1	0.2	-6.1			
	14	121.0	77	18.6	31.5	-0.4	31.1			12800
	15	122.0	151	17.8	-3.2	0.4	15.0			
	16	135.0	277	18.8	-5.1	-0.4	-4.5			
	17	137.0	311	15.6	-6.6	-0.4	-6.2			
	18	142.0	411	14.0	-6.6	-0.5	-6.1			1634
	19	143.0	441	13.1	-5.7	-0.5	-5.2			
	20	149.0	517	16.9	-6.4	-1.0	-5.4			
	21	153.1	577	22.7	-5.1	-1.8	-3.3			2637

CONSTANT PRESSURE DATA

	6:73	-52.9
	3783	-56.7
	1974	-59.8
0675	0583	...
1099		
	9448	-60.0
	7:1	-64.1
1051	6:15	-65.3
1593		
	4:40	-62.5
1530	3:05	-5.9
5997		
	2:42	-57.1
2094	2:17	-62.0
1399		
	0619	-55.2
2095	94:2	-1.5
16470		
	8390	-37.5
	1221	
	15	077

CODED MESSAGE FOR TRANSMISSION

492.5 303.5 95990 22:42 12:13
15530 09209 10353 15793 05155
10994 62:5 12915 1700 12708
12213 09216 05:39

SOLAR RADIATION CORRECTIONS FOR
RAOS TEMPERATURE

1. Time, LST, at 200 mb. or at termination, if between 400 mb. and 200 mb.	0741
2. Correction for TST.	-10
3. Time, TST, Algebraic sum of (1) and (2).	0730
4. Differences between (3) and solar noon.	4.5
5. Elevation angle of sun.	0°
6. Elapsed time from 200 mb. to terminating level.	1:5 25.1
7. Ascensional rate	300 350

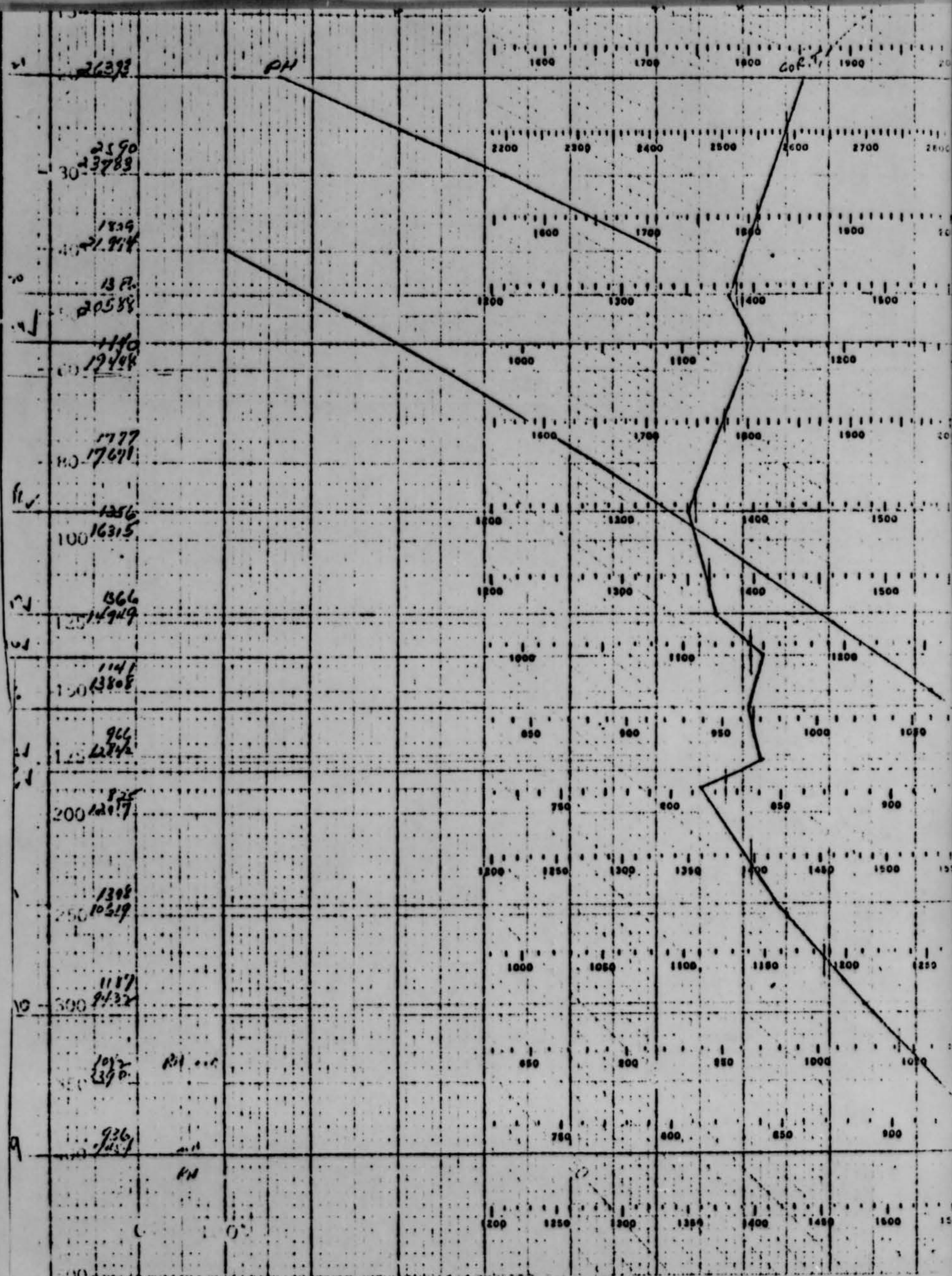
PUNCHED CARD No. 6
PUNCHED CARD No. 7
PUNCHED CARD No. 5
PUNCHED CARD No. 4

-30°

10
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
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8500
8600
8700
8800
8900
9000
9100
9200
9300
9400
9500
9600
9700
9800
9900
10000

Co PT

PH



24 Km. 23 Km. 22 Km. 21 Km. 20 Km. 19 Km. 18 Km. 17 Km. 16 Km. 15 Km. 14 Km.

Station **Oakland Airport,**
Oakland, Calif

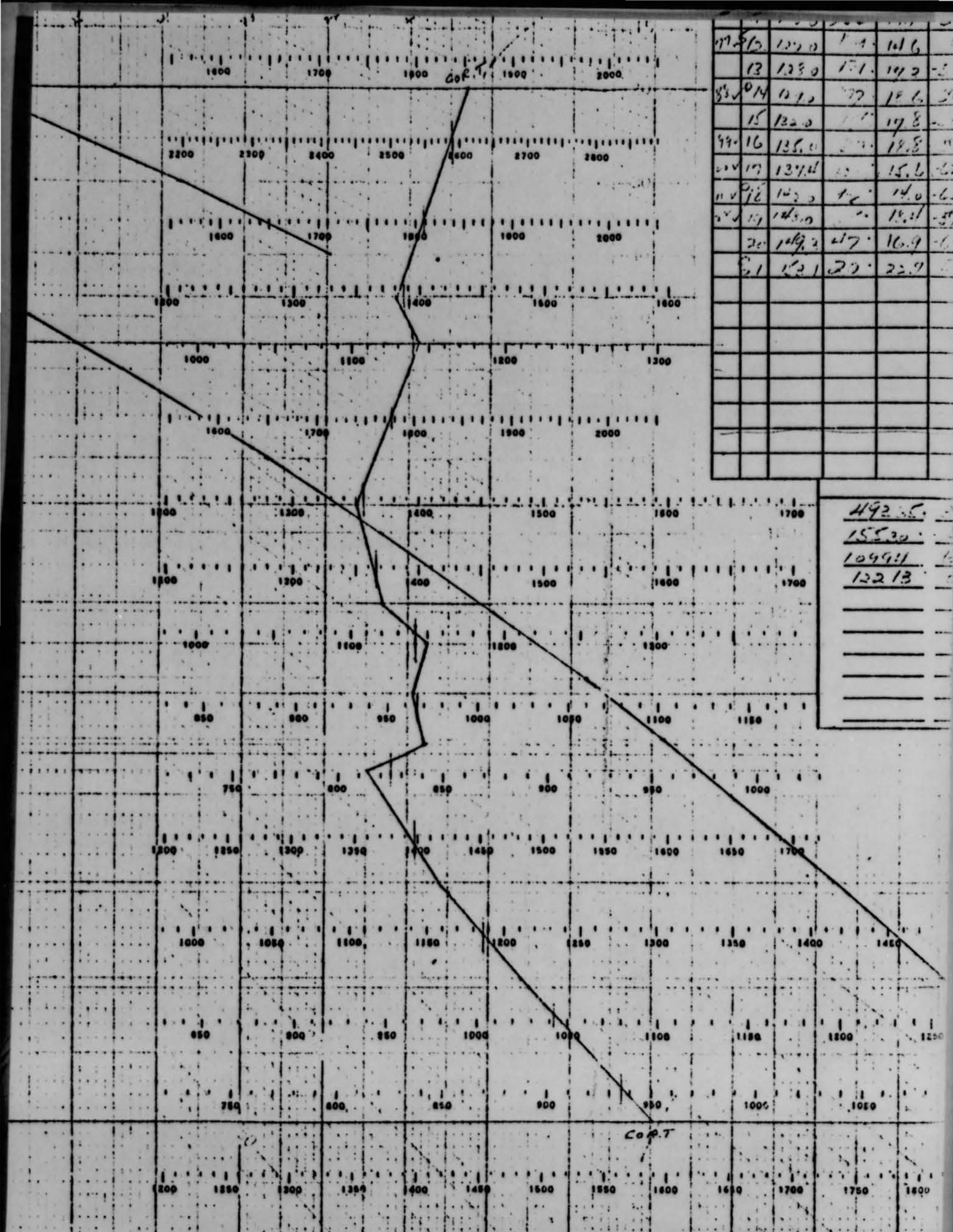
Lat. **37° 44' N.** Long **122° 12' W.**

DATA AS TRANSMITTED	D. P. TO 0.1°C OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
QDals	H (gms)	T
TT ₁ T ₂ T ₃	*RH	*D.P.
Qdsh	D (16 pts.)	Wind S (m.p.s.)

PH—Pressure-height
T—Temperature °C
RH—Relative Humidity
Height scale in geopotential meters

A-11

*Omitted above 200 mbs.



12	1320	17.1	14.6
13	1330	17.1	14.2
14	1340	17.1	13.6
15	1350	17.1	13.8
16	1360	17.1	13.8
17	1370	17.1	13.6
18	1380	17.1	14.0
19	1390	17.1	13.2
20	1400	17.1	16.9
21	1410	17.1	22.7

492.5
155.30
1099.1
12213

-90° -80° -70° -60° -50° -40° -30° -20° -10° 0°
 20 Km. 19 Km. 18 Km. 17 Km. 16 Km. 15 Km. 14 Km. 13 Km. 12 Km. 11 Km. 10 Km.

DATA AS TRANSMITTED	D. P. TO 0.1°C OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
Q0110	H (gms)	T
TTT ₀ T ₀ T ₀	%RH	%D.P.
Q0dH	D (16 pts.)	Wind S (m.p.s.)

PH - Pressure-height
 T - Temperature °C
 RH - Relative Humidity
 Height scale in geopotential meters

Drawn by E. M. VOESTE
 Verified by M. R. McDONOUGH
 Inspected by _____

12
 12 V.

*Omitted above 200 mbs.

13	1280	171	172	-317	0.4	-6.1		
14	1210	177	186	-315	-0.4	5.1	12800	6:73 -52.9
15	1320	177	178	-315	0.4	5.2		
16	1350	177	188	-317	-0.4	1.5		
17	1370	177	156	-626	-0.4	-6.3		3783 -56.7
18	1420	177	140	-656	-0.5	-6.1	16340	
19	1430	177	131	-577	-0.8	5.9		
20	1490	177	169	-624	-1.0	-1.4		1974 -59.9
21	1531	177	227	-511	-1.8	5.9	26370	

05	750	0588
10	990			

9448	-60.0
------	-------

7.1	-64.1
-----	-------

10	550	615	-65.3
15	990		

2740	-62.0
------	-------

10	530	380	-5.9
15	990		

2042	-57.1
------	-------

20	940	2017	-60.0
15	990		

0619	-55.2
------	-------

20	900	9400	-46.5
15	990		

8390	-37.5
1221	
15	037

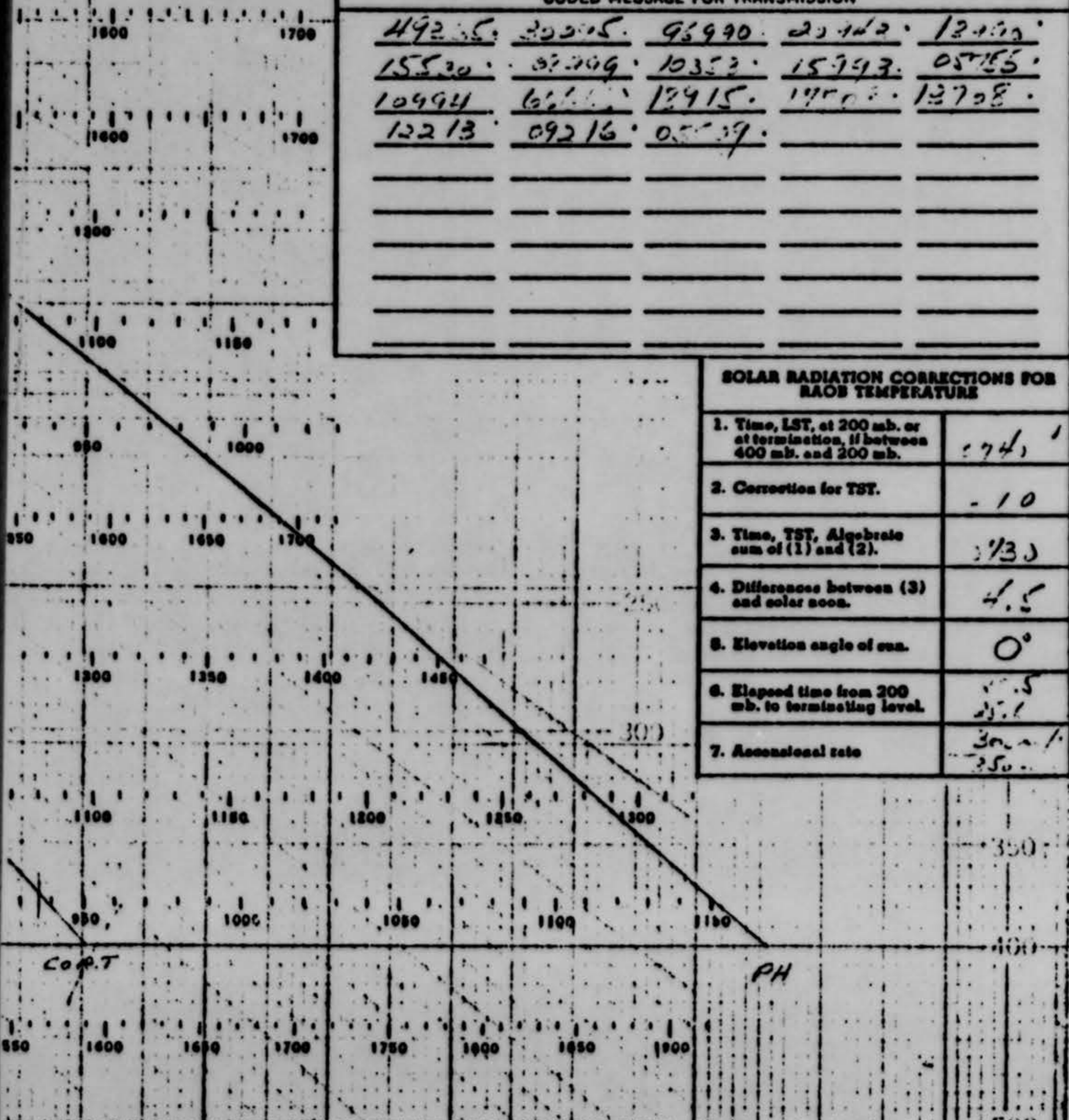
CODED MESSAGE FOR TRANSMISSION

4925	3025	9590	2042	1240
15530	07209	10352	15793	05155
10994	6611	12915	17500	12708
12213	09216	05537		

SOLAR RADIATION CORRECTIONS FOR RAOS TEMPERATURE

1. Time, LST, at 200 mb. or at termination, if between 400 mb. and 200 mb.	1741
2. Correction for TST.	-10
3. Time, TST, Algebraic sum of (1) and (2).	1730
4. Differences between (3) and solar noon.	4.5
5. Elevation angle of sun.	0°
6. Elapsed time from 200 mb. to terminating level.	15.5 25.1
7. Ascension rate	30.1 35.0

20	900	9400	-46.5
15	990		



-30° -20° -10° 0° 10° (°C.)
13 Km. 12 Km. 11 Km. 10 Km. 9 Km. 8 Km. 7 Km. 6 Km. 5 Km.

Drawn by E. M. VOESYE
Verified by M. B. McDONOUGH
Inspected by _____

DATE AND RELEASE TIME

	Year	Month	Day	Time
120 th. No.	1953	Dec	28	0720
G.C.T.	1953	Dec	28	1500
Radiocode No.	352937		Ascension No.	703

PUNCHED CARD No. 7

PUNCHED CARD No. 6

PUNCHED CARD No. 5

PUNCHED CARD No. 4



BASELINE CHECK READINGS

ADIABATIC CHART

WBAN-31A

Time G.C.T.	TEMPERATURE			RELATIVE HUMIDITY			
	Ordinate	Dry	Wet	Ordinate	Roob	Cor.	Psychrometer
1452	69.4	18.0	12.4°C	73.6	91	-3	Water 68



DEPARTMENT OF THE AIR FORCE
DATA PROCESSING DIVISION, ETAC (MAC)
ASHEVILLE, NORTH CAROLINA 28801



REPLY TO
ATTN OF: USAF (ETACOL-1)

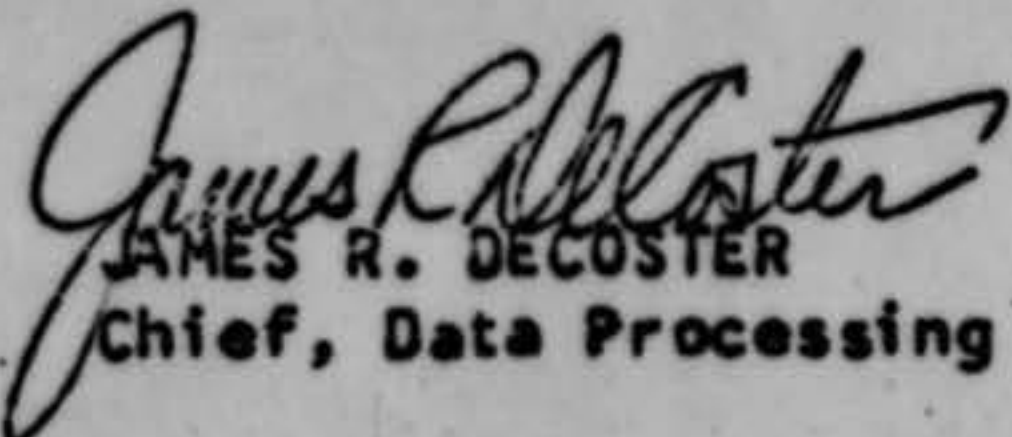
27 Aug 1968

SUBJECT: Shipment of Climatological Data

TO: FTD-TDPTR-4 (SSgt Kist)

1. Reference: Ltr 9 July 68, request for Weather Data.
2. We are shipping this date the following climatological data for 28 Dec 53:
 - a. Copies of WB Form 1130A for 23201 Chico Calif Mun Apt and for 93505 Marysville Calif SAWRS Apt
 - b. Copies of both WBAN Form 10A and WBAN Form 10B for 23206 Sacramento Calif/Mather AFB.
 - c. Copies of WB Form 1130A and WB Form 1130B for 23225 Blue Canyon Calif WBAS-Austin.
 - d. Copies of WB Form 1126A and WB Form 1126B (0300Z and 1500Z obs) for 23230 Oakland Calif WBAS.
3. Surface data is not available for Beale AFB prior to Jul 59 so we have included data for Blue Canyon Calif and Mather AFB, Calif.

FOR THE COMMANDER


JAMES R. DECOSTER
Chief, Data Processing Division

ADIABATIC CHART

WBAN-31A

6 Km.
-10°

5 Km.
0° (C.)

4 Km.
10°

DATA BLOCK A

Code Check	Level No.	PRESSURE		TEMPERATURE		RELATIVE HUMIDITY		DEW POINT	REMARKS
		Contact	mb.	Ordinate	Ascent (°C)	Ordinate	% Including Correction of -5%	°C	
SIGNIFICANT LEVELS									
	1		1021.		12.2°		38.	-1.2	0000
	2	70	1008	67.3	13.6°	290	33.	-2.5	0012
	3	120	965	65.8	10.9°	240	38.	-3.0	0024
	4	140	950	66.7	12.5°	270	32.	-3.8	0040
	5	220	826	65.0	9.2°	190	28.	-8.5	0112
	6	280	843	66.8	12.2°	5.0	15.	-13.7	
	7	380	769	67.1	13.3	m3	m0.	m3.	0237
	8	720	532	53.1	-10.1	m8	m12.	m8.	0535
	9	92.7	400	38.5	-27.1	m8	m0.	m3	
	10								
	11								
	12								
	13								
	14								
	15								
	16								
	17								
	18								
	19								
	20								

CODED MESSAGE FOR TRANSMISSION

47315.	02112.	51714.	00209.	00059.
13522.	00315.	85504.	11628.	00228.
20035.	07990.	00137.	50908.	6499.
07534.	40446.	79792.	03542.	55555.
11001.	13525.	22705.	12557.	33750.
12535.	40130.	09522.	55843.	12633.
66666.	76713.	12.		



W. E. H.

DATA BLOCK A

4 Km.
10°

Code Check	Level No.	PRESSURE		TEMPERATURE		RELATIVE HUMIDITY		DEW POINT	REMARKS
		Contact or semi-contact	mb.	Ordinate	Ascent (°C)	Ordinate	Including Correction of %	°C	
SIGNIFICANT LEVELS									
	1		1021.		12.2		38.	-1.2	00006
	2	70	1028	67.3	13.6	290	33.	-2.5	00120
	3	120	765	65.8	10.9	270	38.	-3.0	00490
	4	140	950	66.7	12.5	270	32.	-3.8	00610
	5	220	826	65.0	9.2	190	28.	-8.5	01200
	6	280	843	66.5	12.2	50	15.	-13.7	
	7	380	769	67.1	13.3	mB	mB.	mB.	02370
	8	720	532	53.1	-10.1	mB	mB.	mB.	05350
	9	92.7	400	38.5	-27.8	mB	mB.	mB.	
	10								
	11								
	12								
	13								
	14								
	15								
	16								
	17								
	18								
	19								
	20								

CONSTANT PRESSURE DATA

00406	74.54	-29.8
72001	(20)	mB
07542	15	022

6600	-21.9
(18)	022
15	020

00707	58.14	-14.5
64995	(16)	mB
01534	16	008

5090	-08.1
(15)	017
16	017

4399	-02.9
(14)	018
16	018

3770	002.2
(14)	021
16	021

70035	31.55	027.0
07995	(13)	mB
00137	16	020

3600	011.6
(12)	015
16	015

2042	012.9
(13)	015
16	015

00504	1535	011.7
11628	17	-12.6
00228	01	014

1061	010.0
27	015
01	015

0610	012.5
72	015
01	015

00254	011	011
18522	34	-2.5
00385	01	008

02112	Pressure	020.1
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CODED MESSAGE FOR TRANSMISSION

49315	02112	51714	00209	00069
13522	00315	85504	11628	03228
20035	07990	00137	50908	64995
03534	40046	79792	03542	55555
11001	13525	22905	12559	23750
12595	40050	09522	55845	12633
66666	76713	12		

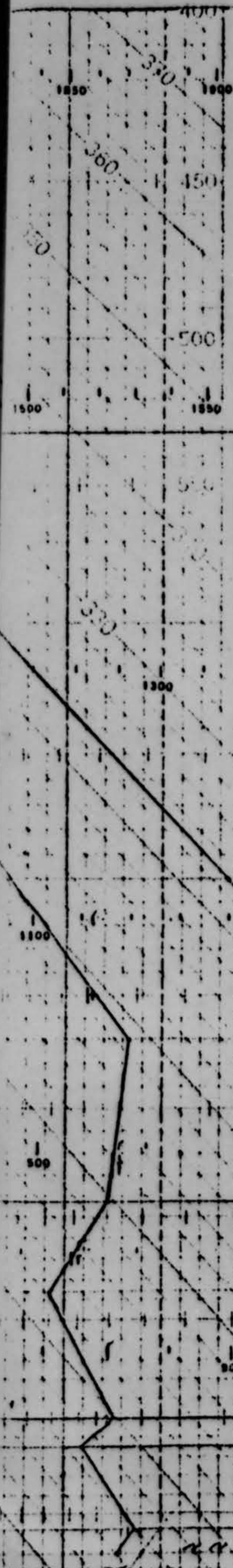
PUNCHED CARD No. 4

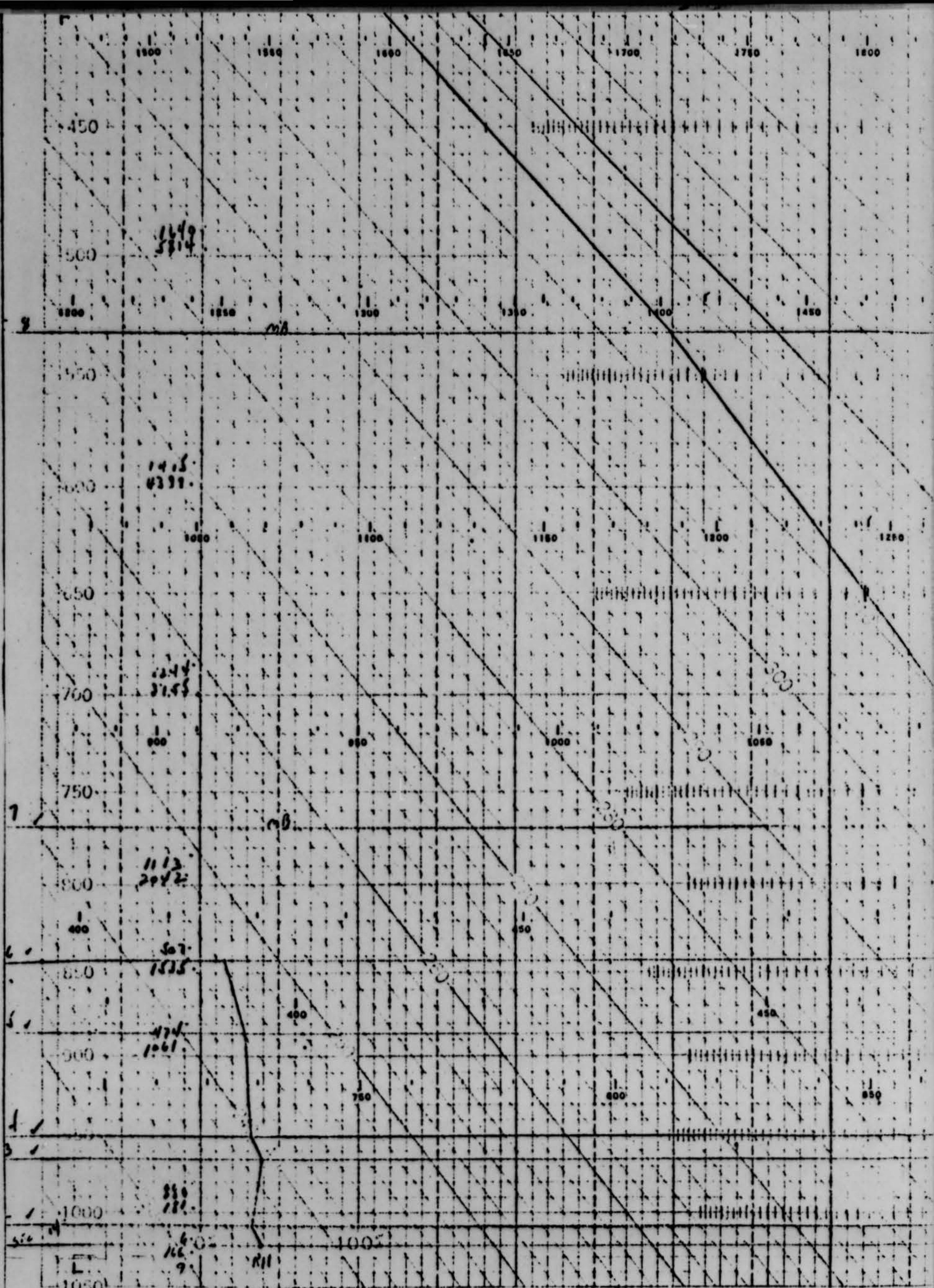
PUNCHED CARD No. 3

PUNCHED CARD No. 2

PUNCHED CARD No. 1

3001 - 030/154
3001 - 020/054





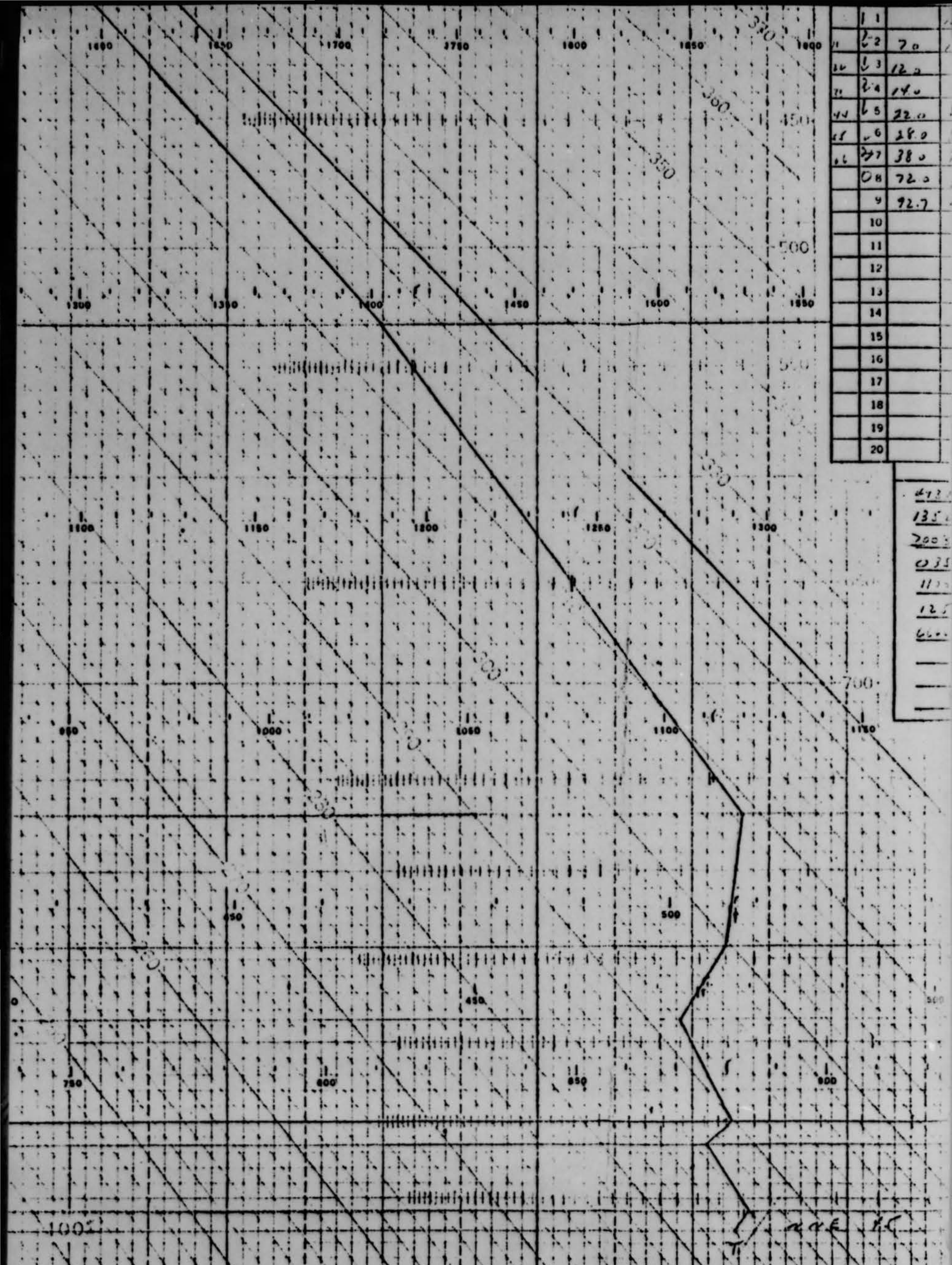
-40° 9 Km. -30° 8 Km. -20° 7 Km. -10° 6 Km. 0° (C.) 5 Km.

Station **Oakland Airport,**
Oakland, Calif
 Lat **37° 46' N.** Long **122° 29' W**

DATA AS TRANSMITTED	D. P. TO 0.1°C. OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
Q0000	M (gpm)	T
TTT ₀ T ₀ T ₀	RH	D.P.
Q00H	D (16 pts.)	Wind S (m.p.s.)

A-10

PH - Pressure-height
 T - Temperature °C
 RH - Relative Humidity
 Height scale in geopotential



1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

47.7
 135
 700
 0.35
 117
 125
 660
 —
 —

-30° 8 Km. -20° 7 Km. -10° 6 Km. 0° (C.) 5 Km. 10° 4 Km. 20° 3 Km.

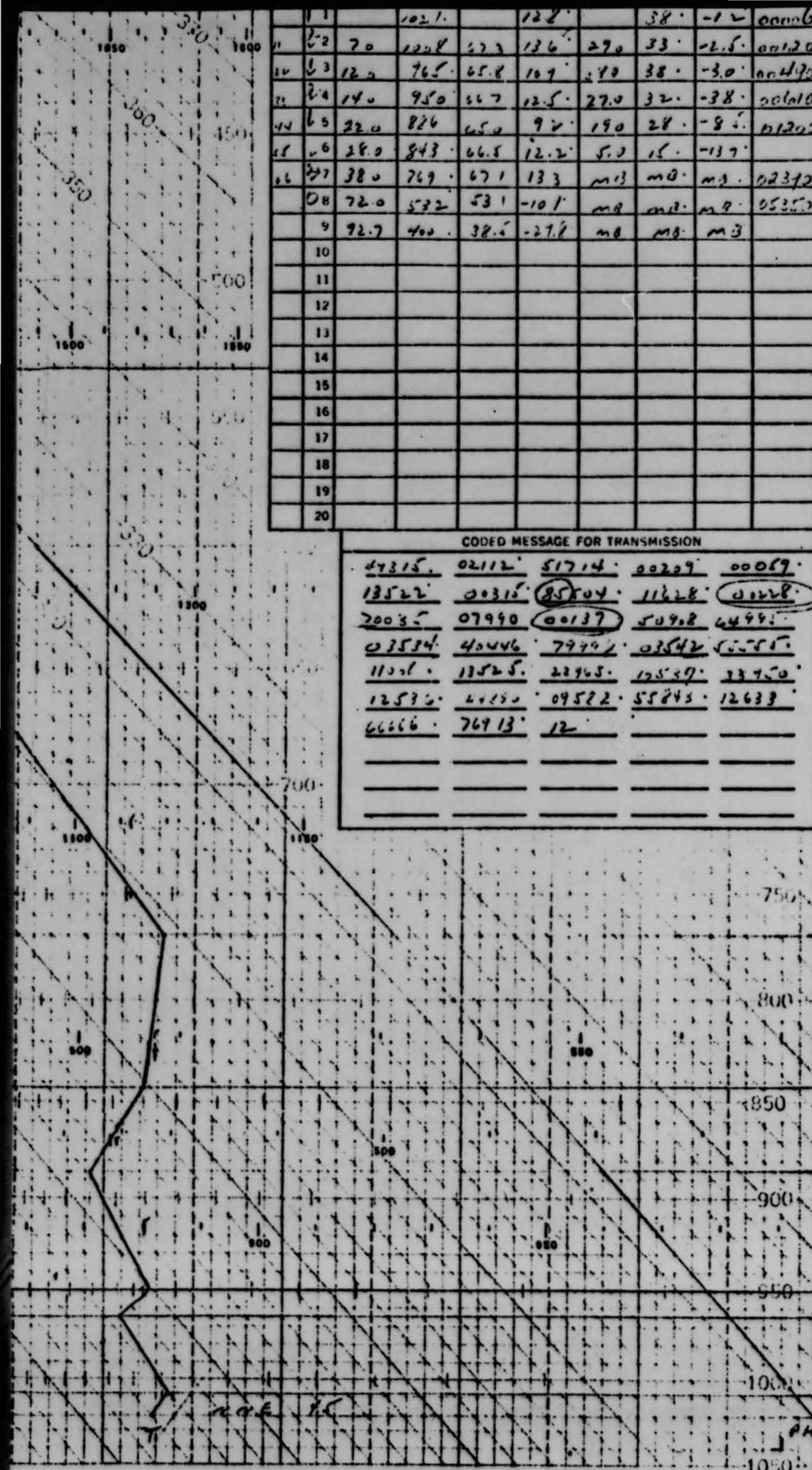
DATA AS TRANSMITTED	D.P. TO 0.1°C. OTHER DATA AS ENTERED ON WSAW-33 OR PUNCHED CARD	
Q0 000	H (gpm)	T
TTT ₀ T ₀	RH	D.P.
Q00H	Q (10 pts.)	Wind S (m.p.s.)

A-10

PH - Pressure-height
 T - Temperature °C
 RH - Relative Humidity
 Height scale in geopotential meters

Drawn by M. P. S. Des
 Verified by E. M. V.
 Inspected by _____

Calif



CODED MESSAGE FOR TRANSMISSION

47315	02112	51714	00209	00069
13522	00315	85504	11628	00228
70035	07990	00137	50908	64991
03534	40446	79797	03542	55555
11001	13525	22965	12537	33950
12575	40150	09522	55843	12633
66666	76713	12		

6600	-219
(18)	
15	020

60708	5214	-145
64975	(16)	m0
01534	16	018

5070	-081
(15)	
16	017

4397	-029
(14)	
16	018

3770	002.2
(14)	
16	021

70035	3155	0070
07990	(13)	m0
00137	16	020

3600	0116
(12)	
16	015

2042	012.9
(13)	
16	015

0504	0535	0117
11628	17	-12.6
00228	01	014

1061	110.0
29	
01	015

0610	012.5
32	
01	012

0058	011	0131
18522	34	-2.5
03385	01	008

02112	Pressure	0.2.8
5171	38	-1.2
00207	01	005

5770/000-1000
777/000-1000

10° 4 Km. 20° 3 Km. 30° 2 Km. 40° 1 Km. 50° M.S.L.

Drawn by M. P. Co. Dev. 246
 Verified by E. M. VOESTE
 Inspected by _____

DATE AND RELEASE TIME

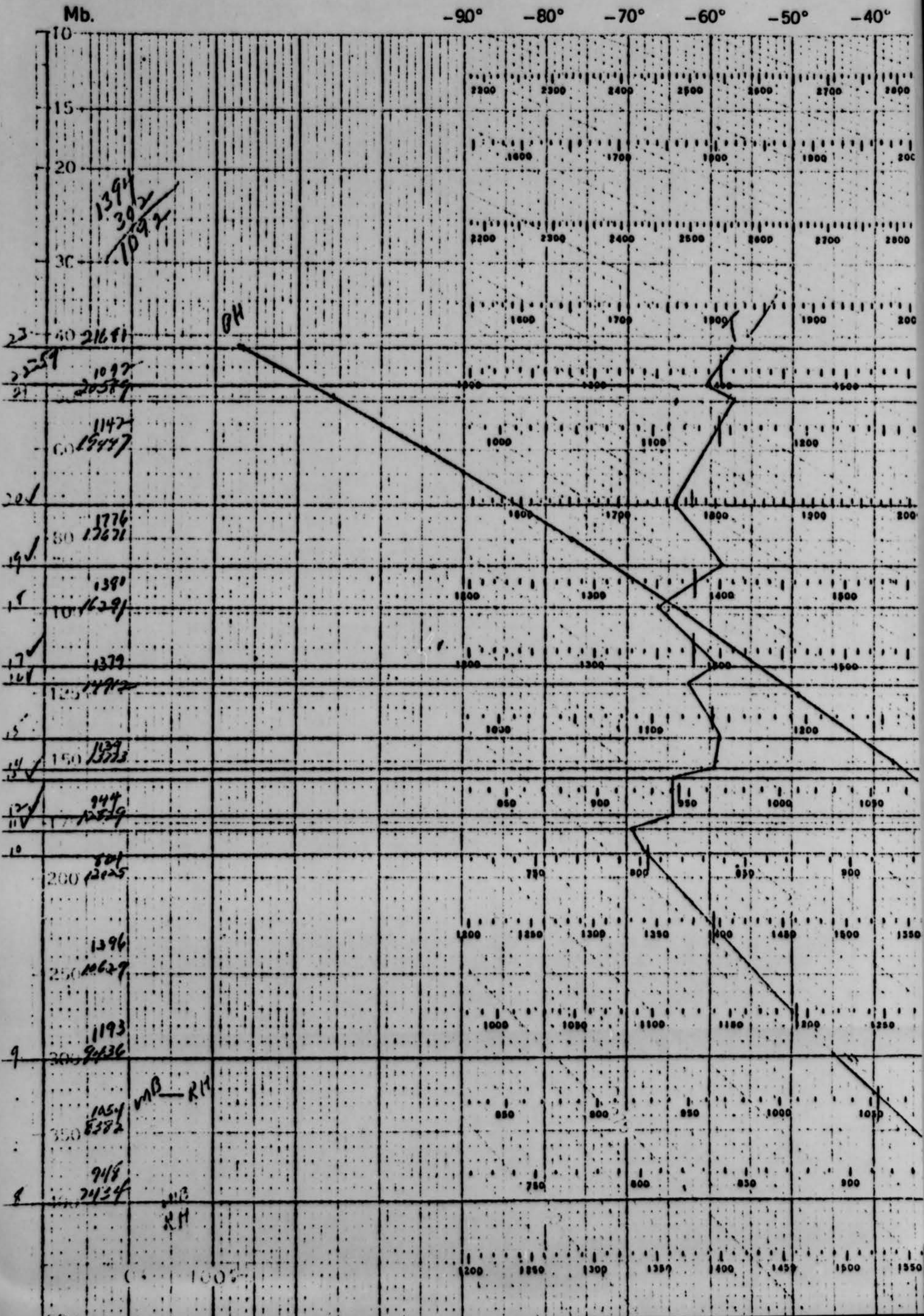
Year	Month	Day	Time
120	th. Mar	19.53	Fri. 28 0700
G.C.T.	1958	APR	28 1500

Radiosonde No. 352.727 Ascension No. 723

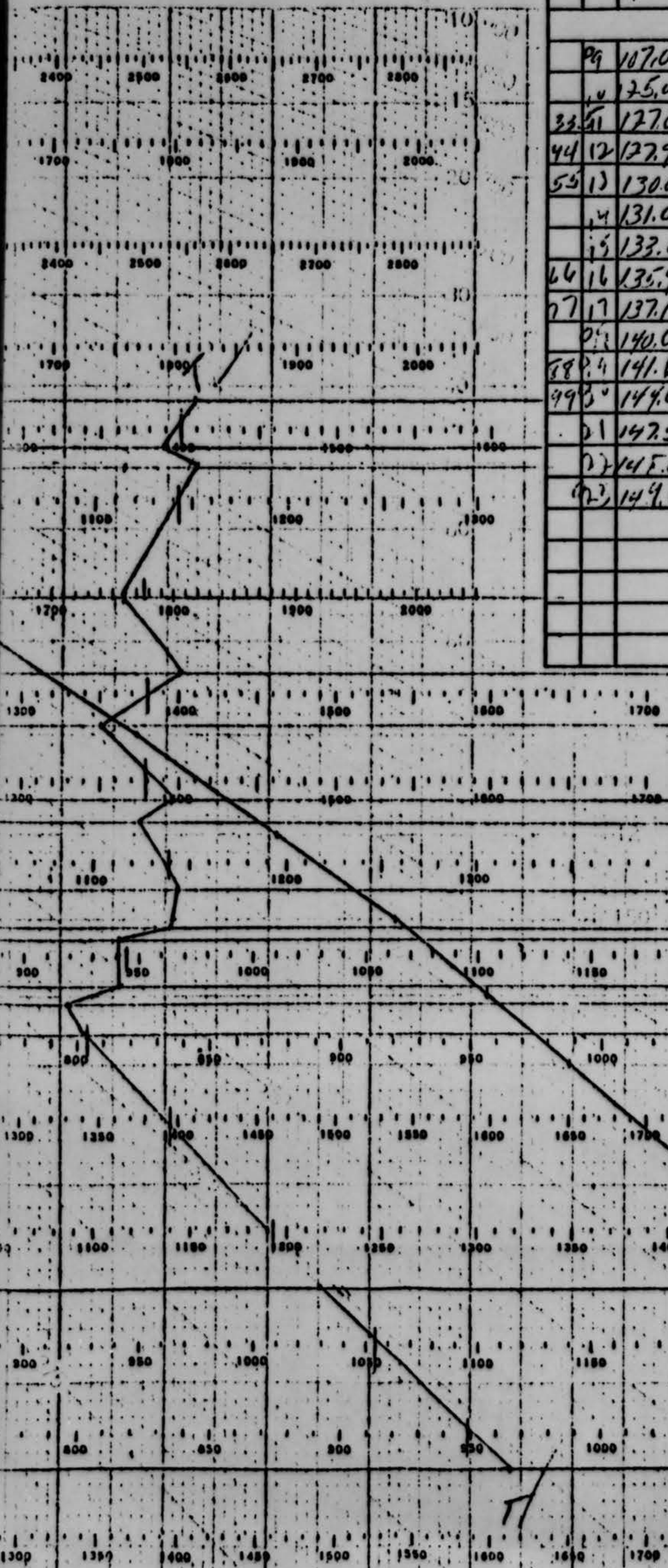
PUNCHED CARD No. 3
PUNCHED CARD No. 2
PUNCHED CARD No. 1

ADIABATIC CHART

WBAN-31B



-70° -60° -50° -40° -30°



Code Check	Level No.	PRESSURE		TEMPERATURE			RELATIVE HUMIDITY		D PC
		Contact	mb.	Ordinate	Ascent (°C)	Correction	Corrected	Ordinate	
SIGNIFICANT LEVELS									
	09	107.0	300	27.1	-44.8				
	10	125.0	179	13.0	-67.6				
	33	127.0	178	12.2	-69.3				
	44	127.9	172	14.7	-61.2				
	55	130.0	159	14.7	-69.2				
	14	131.0	153	17.3	-59.6				
	15	133.0	141	17.8	-58.5				
	66	135.9	122	15.7	-61.9				
	77	137.1	116	17.3	-59.6				
	01	140.0	98	13.7	-66.2				
	88	141.6	87	17.8	-58.5				
	99	144.0	72	14.8	-61.1				
	01	147.5	51	15.8	-57.3				
	02	145.0	45	16.9	-62.5				
	02	149.1	42	18.6	-57.4				

CODED MESSAGE FOR TRANSMISSION			
49353	30096	94998	20945
15519	09992	10345	15994
07995	11166	17919	17214
122-12	11610	08709	072-14

- SOLAR RADIATION CORRECTIONS**
1. Time, LST, at 200 mb. at termination, if between 400 mb. and 200 mb.
 2. Correction for TST.
 3. Time, TST, Algebraic sum of (1) and (2).
 4. Difference between () and solar noon.
 5. Elevation angle of sun
 6. Elapsed time from 200 mb. to terminating level
 7. Ascension rate

114

DATA BLOCK B

Code Check	Level No.	PRESSURE		TEMPERATURE			RELATIVE HUMIDITY		DEW POINT	REMARKS
		Contact	mb.	Ordinate	Ascent (°C)	Correction	Corrected	Ordinate	Including Correction of %	
SIGNIFICANT LEVELS										
	09	107.0	300	27.1	-44.8					09436
	10	125.0	199	13.0	-67.6					
	33	127.0	178	12.2	-69.3					1373-0
	44	127.9	172	14.7	-61.2					
	55	130.0	159	14.7	-64.2					
	14	131.0	153	17.3	-59.6					
	15	133.0	141	17.8	-58.5					14150
	66	135.9	122	15.7	-61.4					
	77	137.1	116	17.3	-59.6					
	09	140.0	98	13.7	-66.2					16410
	88	141.6	87	17.8	-58.5					17:50
	99	144.0	72	14.8	-61.1					18:10
	21	147.5	51	18.8	-57.2					
	72	145.0	45	16.9	-62.5					
	73	149.1	12	18.6	-57.4					1681

CONSTANT PRESSURE DATA

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0755	0589	-57.5
0795		

9447	-608	
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7671	-668	
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CODED MESSAGE FOR TRANSMISSION

49353	30096	94998	20915	14999
15519	09992	10345	15994	05755
07995	11666	17819	17214	15914
127-12	11610	08709	07214	

10345	6291	-65.4
15994		

4912	-619	
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15519	3773	-55.2
07995		

2829	-67.3	
------	-------	--

20915	2025	-64.9
14999	071	

0729	-54.2	

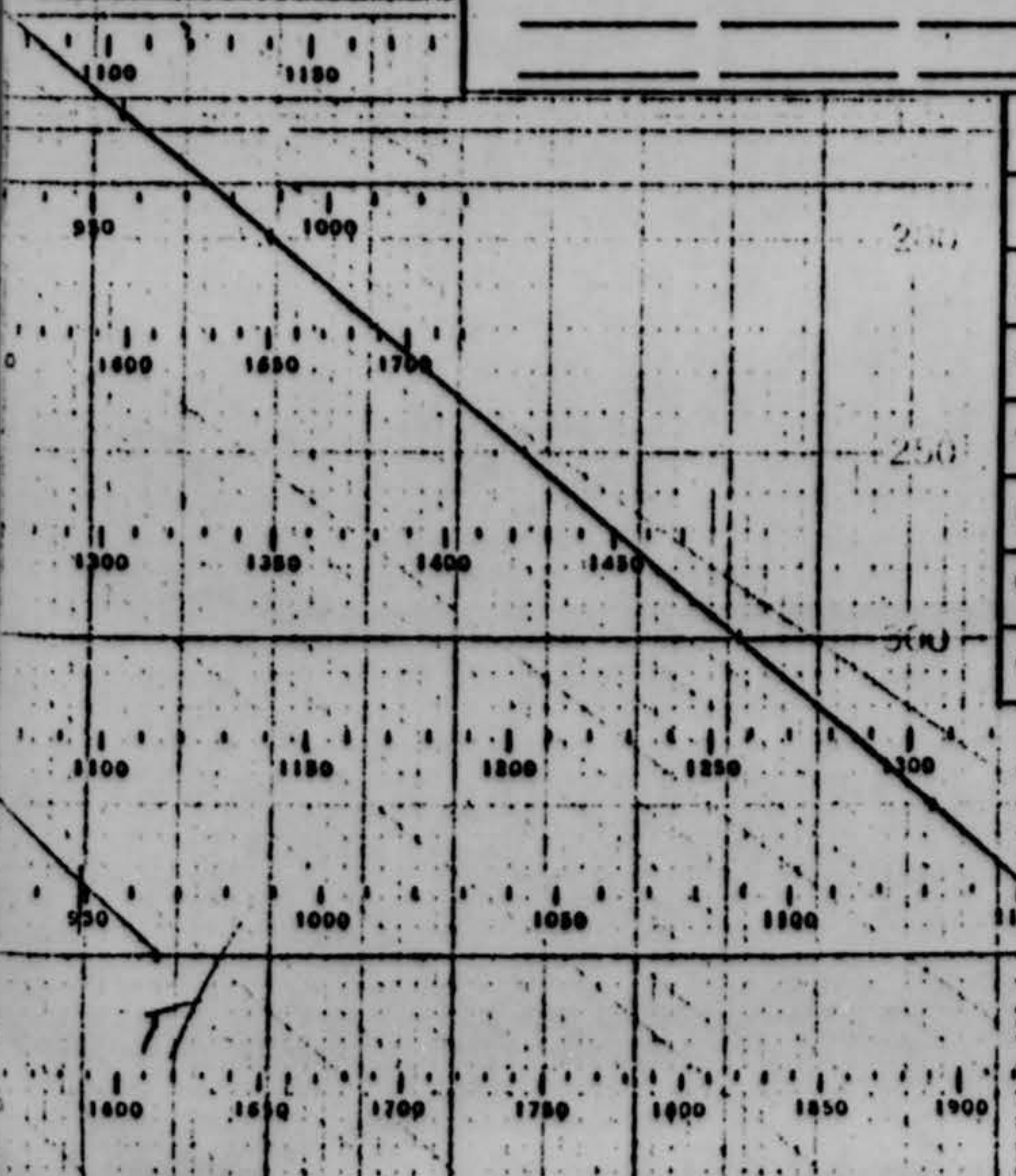
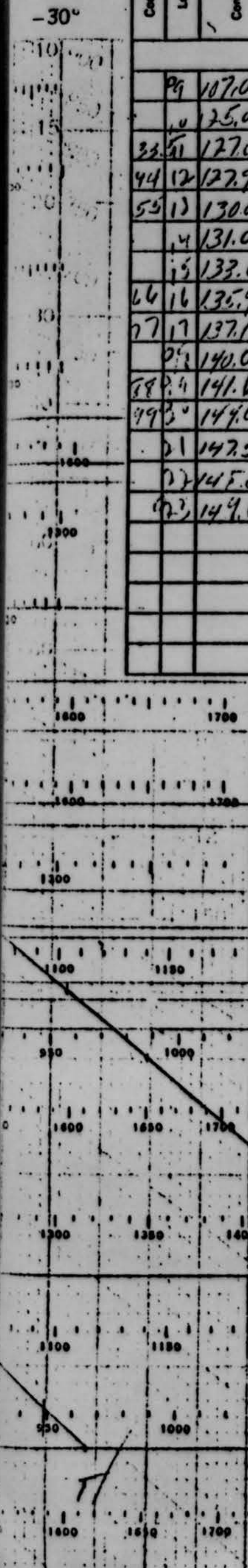
20996	9126	-61.5
07995	m	

5.7	-61.5	
(2)		

SOLAR RADIATION CORRECTIONS FOR RAOS TEMPERATURE

- Time, LST, at 200 mb. or at termination, if between 400 mb. and 200 mb.
- Correction for TST.
- Time, TST, Algebraic sum of (1) and (2).
- Difference between (3) and solar noon.
- Elevation angle of sun.
- Elapsed time from 200 mb. to terminating level.
- Ascensional rate

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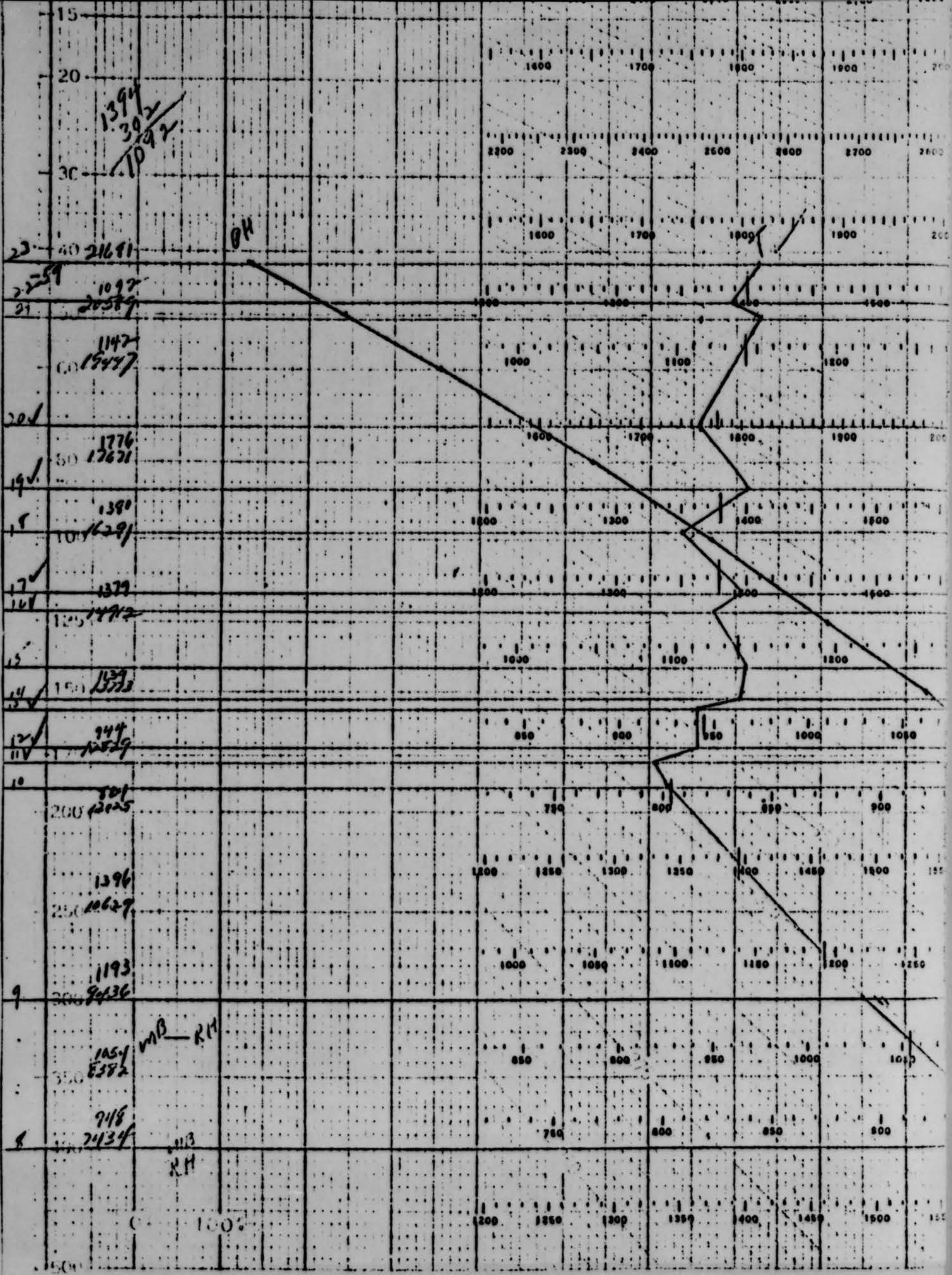
PUNCHED CARD No. 8

PUNCHED CARD No. 7

PUNCHED CARD No. 6

PUNCHED CARD No. 5

PUNCHED CARD No. 4



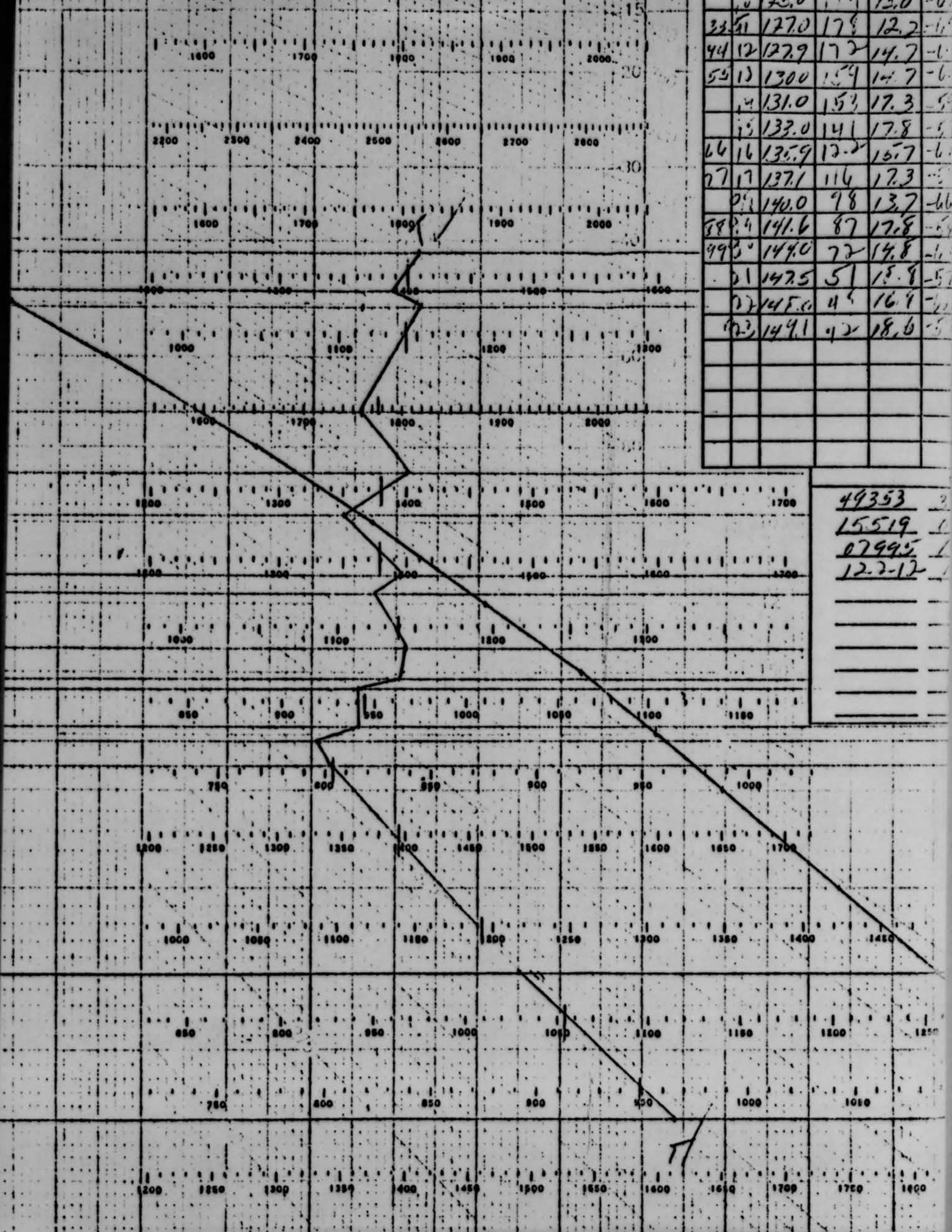
24 Km. 23 Km. 22 Km. 21 Km. 20 Km. 19 Km. 18 Km. 17 Km. 16 Km. 15 Km. 14 Km.

Station **Oakland Airport,**
Oakland, Calif
 Lat. **37° 44' N.** Long **122° 12' W.**

DATA AS TRANSMITTED	D. P. TO 0.1°C OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
00bbb	M (gpm)	T
TTT ₁ T ₂ T ₃	°RH	°D.P.
0000	D (16 pts.)	Wind S (m.p.s.)

A-9
 PH—Pressure-height
 T—Temperature °C
 RH—Relative Humidity
 Height scale in geopotential meters

*Omitted above 200 mbs.



33	125.0	178	13.0	-6.1
44	127.0	172	12.2	-6.1
55	130.0	159	14.7	-6.1
	131.0	153	17.3	-5.9
	133.0	141	17.8	-5.9
66	135.9	122	15.7	-6.1
77	137.1	114	17.3	-5.9
	140.0	98	13.7	-6.6
88	141.6	87	17.8	-6.1
99	144.0	72	14.8	-6.1
	147.5	51	15.8	-5.9
	145.0	45	16.9	-6.1
	149.1	42	18.6	-5.9

49353
 15519
 07995
 12.2-12

-90° -80° -70° -60° -50° -40° -30° -20° -10° 0°
 20 Km. 19 Km. 18 Km. 17 Km. 16 Km. 15 Km. 14 Km. 13 Km. 12 Km. 11 Km. 10 Km.

DATA AS TRANSMITTED	D. P. TO 0.1°C OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
0044	H (gpm)	T
TTE ₀ T ₀	°RH	°D.P.
0048	D (16 pts.)	Wing S (m.p.s.)

A-9

PH—Pressure-height
 T—Temperature °C
 RH—Relative Humidity
 Height scale in geopotential meters

Drawn by J. E. Lucas
 Verified by G. MANNISON
 Inspected by _____

*Omitted above 200 mbs.

4 June 1968

it occurred at a small airport and the duration was one and one-half minutes. Followup should have been made to determine whether there were other potential witnesses. Since it occurred at midnight on December 28, it is possible that there were no other witnesses available. Must be carried as unidentified, single witness.

15. 12 August 1965, Ramona, California.

One witness, duration of sighting only 15 seconds. Witness was a 67 year old lady. Sighting occurred at 9p.m. daylight saving time in the middle of August, and thus the sky should still have been reasonably bright. Witness said sighting occurred at night and sky very blue. Perhaps she thinks that anything after 6 p.m. is night. Must be listed as unknown (meager data, single witness, very short duration).

16. 26 February 1966, Bartlett, New Hampshire

I have in my files for 26 February 1966, Manchester, New Hampshire. I do not seem to find a Bartlett, New Hampshire case. See attached supplemental sheet A.

17. 17 July 1966, Centerville, Ohio.

Temporarily not in file. Will study this case when I visit Dayton.

18. 9 February 1967, Odessa, Delaware.

Since by an admitted breakdown in communications the Dover Air Force Base delayed some five months in investigating this case, all I have is the NICAP report. Evaluation pending my getting a copy of the Air Force investigation of same. Based on NICAP report, the sighting is obviously unidentified.

19. 12 February 1967, Grand Rapids, Michigan.

I have only the card on this case, but judging from it there seems to be a possibility that this one-witness case was caused by low-flying birds reflecting light. The sighting lasted 4 to 10 seconds, and witness mentions a high-pitched chirping noise.

20. 1 April 1967, Wellington or Loco, Texas.

I had a great personal involvement in this case, much of it

33	11	127.0	178	12.2	-1.9					1272-0
44	12	127.9	172	14.7	-6.1					
55	13	130.0	159	14.7	-6.1					
	14	131.0	153	17.3	-5.6					
	15	133.0	141	17.8	-5.8					14150
66	16	135.9	122	15.7	-6.1					
77	17	137.1	116	17.3	-5.6					
	18	140.0	98	13.7	-6.2					16410
88	19	141.6	87	17.8	-5.8					17:50
99	20	144.0	72	14.8	-1.1					18:40
	21	147.5	51	18.8	-5.2					
	22	145.0	45	16.9	-1.2					
	23	144.1	42	18.6	-5.2					1681

0755	0589	-57.5
0795		

9447	-608
------	------

7671	-608
------	------

CODED MESSAGE FOR TRANSMISSION

49353	30096	94998	20945	14999
15519	09992	10345	15994	05755
07995	11666	17819	17214	15914
12312	11610	08709	07214	

10345	6291	-65.4
15994		

4912	-619
------	------

15519	3773	-53.2
07995		

2829	-67.2
------	-------

SOLAR RADIATION CORRECTIONS FOR RAOB TEMPERATURE

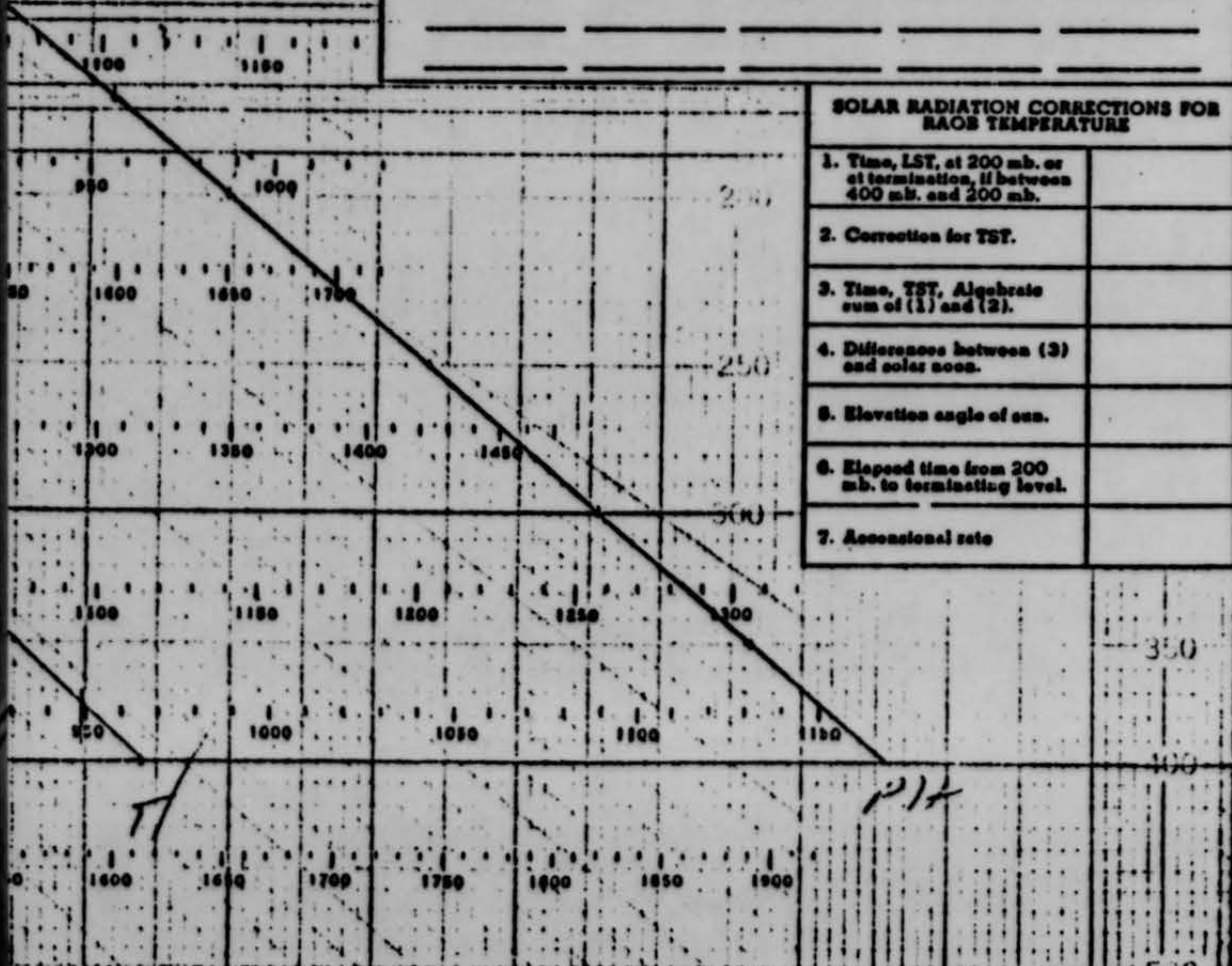
1. Time, LST, at 200 mb. or at termination, if between 400 mb. and 200 mb.	
2. Correction for TST.	
3. Time, TST, Algebraic sum of (1) and (2).	
4. Difference between (3) and solar noon.	
5. Elevation angle of sun.	
6. Elapsed time from 200 mb. to terminating level.	
7. Azimuthal rate	

20945	2025	-64.9
14999		

0629	-51.2
------	-------

2096	9426	-11.5
07995		

9.15	-3.15
12.2	



Drawn by W. E. Lucas
 Verified by G. MANNION
 Inspected by _____

DATE AND RELEASE TIME				
	Year	Month	Day	Time
120	1953	DEC	28	0300
S.C.T.	1953	DEC	28	0300
Radioonde No.	114675			Accession No. 722

PUNCHED CARD No. 7
 PUNCHED CARD No. 6
 PUNCHED CARD No. 5
 PUNCHED CARD No. 4



BASELINE CHECK READINGS

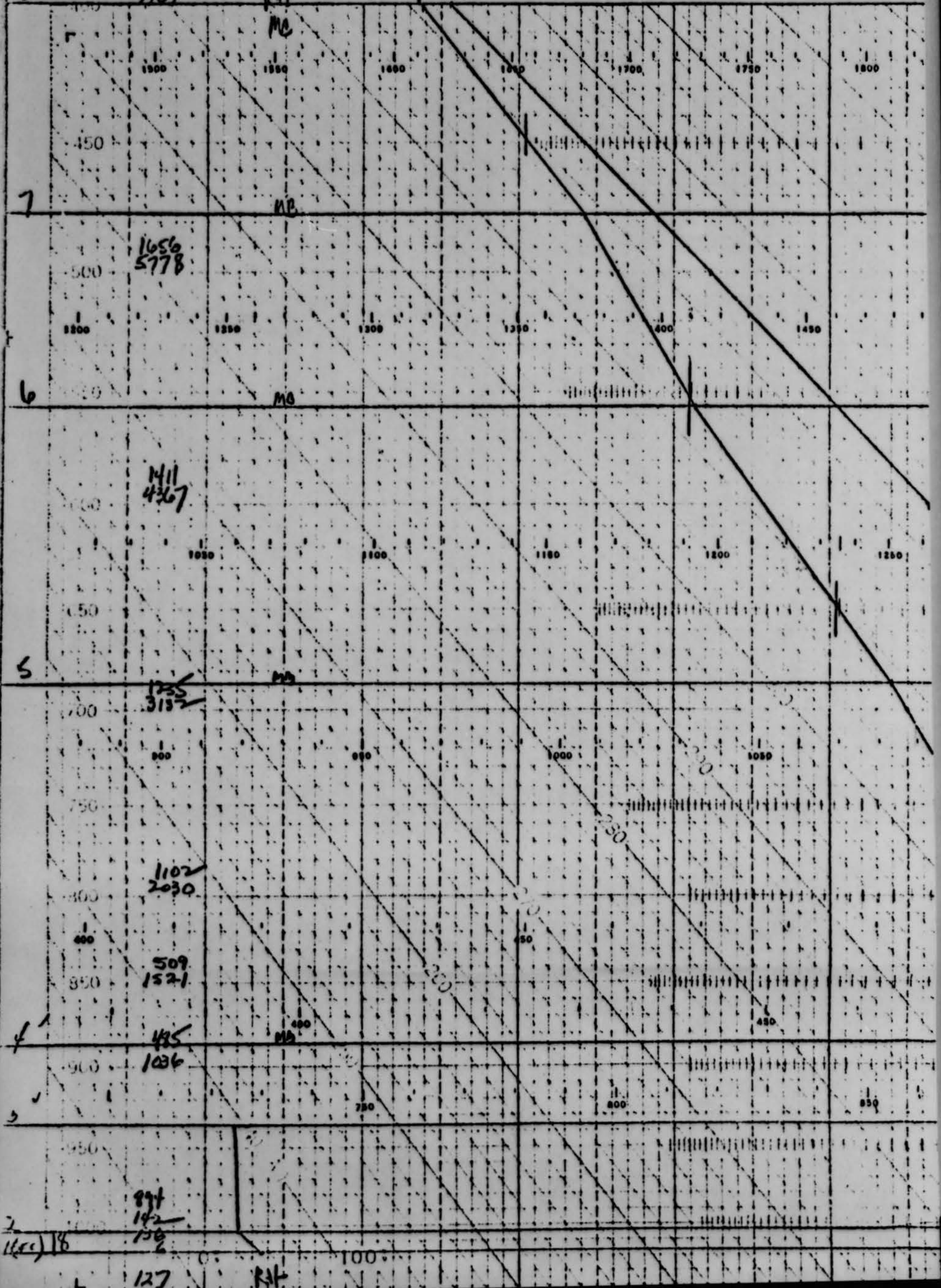
U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

ADIABATIC CHART

WBAN-31A

Time G. C. T.	TEMPERATURE			RELATIVE HUMIDITY			Psychrometer Ice
	Ordinate	Dry	Wet	Ordinate	Raob	Cor.	
0233	71.0	21.7	18.0 °C	79.3	68	22	Water 70

8 Mb. 9 Km. 8 Km. 7 Km. 6 Km. 5 Km.
 7434 -40° -30° -20° -10° 0°(C.)



ADIABATIC CHART

WBAN-31A

5 Km.
0° (C.)

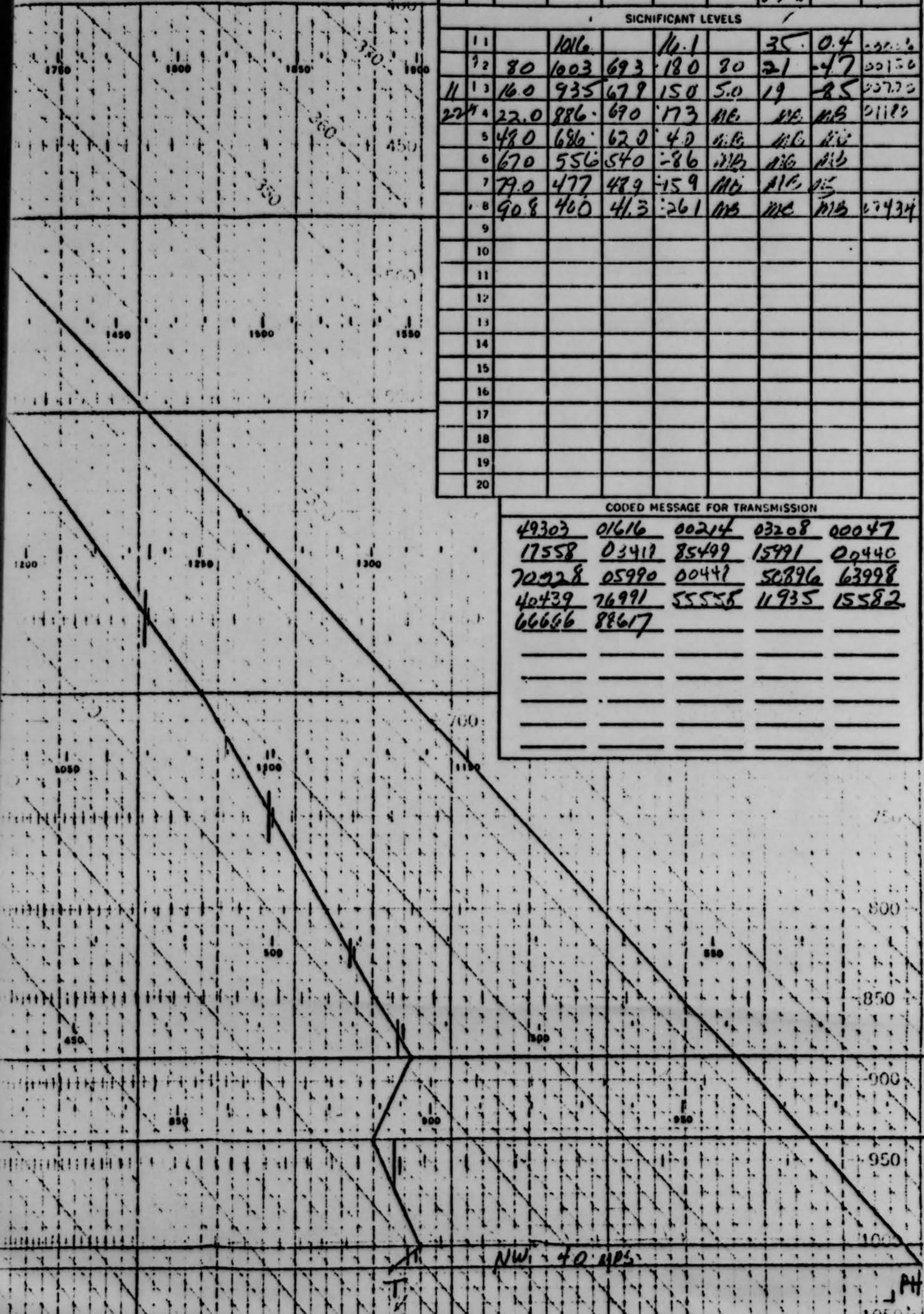
4 Km.
10°

DATA BLOCK A

Code Check	Level No.	PRESSURE		TEMPERATURE		RELATIVE HUMIDITY		DEW POINT	REMARKS
		Correct or semi-correct	mb.	Ordinate	Ascent (°C)	Ordinate	Including Correction of 1.2%	°C	
SIGNIFICANT LEVELS									
	11		1016		16.1		35	0.4	00150
	12	80	1003	693	18.0	80	21	-4.7	00150
11	13	16.0	935	679	15.0	5.0	19	-8.5	007.00
22	14	22.0	886	690	17.3	MC	MC	MC	01185
	15	48.0	686	62.0	4.0	MC	MC	MC	
	16	67.0	556	54.0	-8.6	MC	MC	MC	
	17	79.0	477	48.9	-15.9	MC	MC	MC	
	18	90.8	400	41.3	-26.1	MC	MC	MC	07434
	19								
	20								

CODED MESSAGE FOR TRANSMISSION

49303 01616 00214 03208 00047
 17558 03417 85499 15991 00440
 70928 05990 00447 50896 63998
 40439 76991 55555 11935 15582
 66666 88617



NW 40 MPS

CONS
604
767
0

60
63
0

7
8
0

65

7

PH
1050

DATA BLOCK A

4 Km.
10°

Code Check	Level No.	PRESSURE		TEMPERATURE		RELATIVE HUMIDITY		DEW POINT	REMARKS
		Contact or semi-Contact	mb.	Ordinate	Ascent (°C)	Ordinate	Including Correction of 1.2%	°C	
SIGNIFICANT LEVELS									
	1		1016		16.1		35	0.4	00100
	2	80	1003	693	180	80	21	-4.7	00150
11	3	160	935	679	150	5.0	19	-8.5	00720
22	4	22.0	886	670	173	MB	MB	MB	01180
	5	480	686	620	4.0	MB	MB	MB	
	6	670	556	540	-8.6	MB	MB	MB	
	7	79.0	477	489	-15.9	MB	MB	MB	
	8	90.8	460	41.3	-26.1	MB	MB	MB	01434
	9								
	10								
	11								
	12								
	13								
	14								
	15								
	16								
	17								
	18								
	19								
	20								

CONSTANT PRESSURE DATA

40439	7434	-26.1
76711	(19)	MB

6580	-19.4
(17)	

8965778	-13.8
63998	(16) MB

5030	-09.1
(15)	

4367	-04.2
(14)	

3720	000.6
(14)	

700283132	005.0
05990	(13) MB
0614	02 02

2590	008.5
(13)	
0.2	0.33

2030	012.0
(12)	
0.2	0.27

499	152.1	015.1
15991	(12)	MB
0041	03	0.20

1036	016.7
(12)	
01	0.20

0600	015.6
20	
01	0.2

0047	014.2	017.9
17558	20	-5.5
0041	15	0.19

01616	1616	0161
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CODED MESSAGE FOR TRANSMISSION

49303	01616	00214	03208	00047
17558	03417	85499	15991	00440
70928	05990	00447	50896	63998
40439	76991	55555	11935	15582
66666	88617			

NW 40 mps

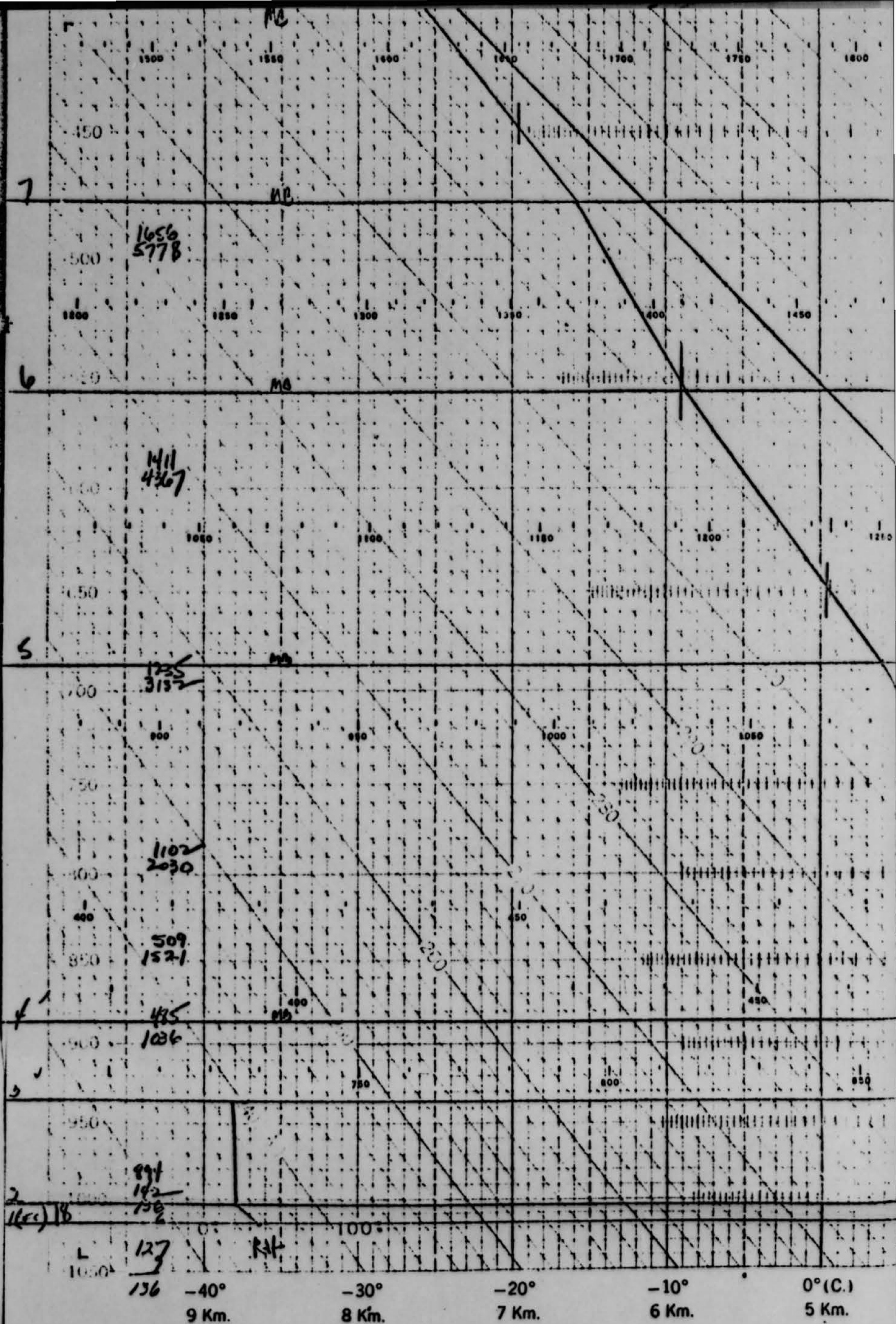
PH

PUNCHED CARD No. 4

PUNCHED CARD No. 3

PUNCHED CARD No. 2

PUNCHED CARD No. 1



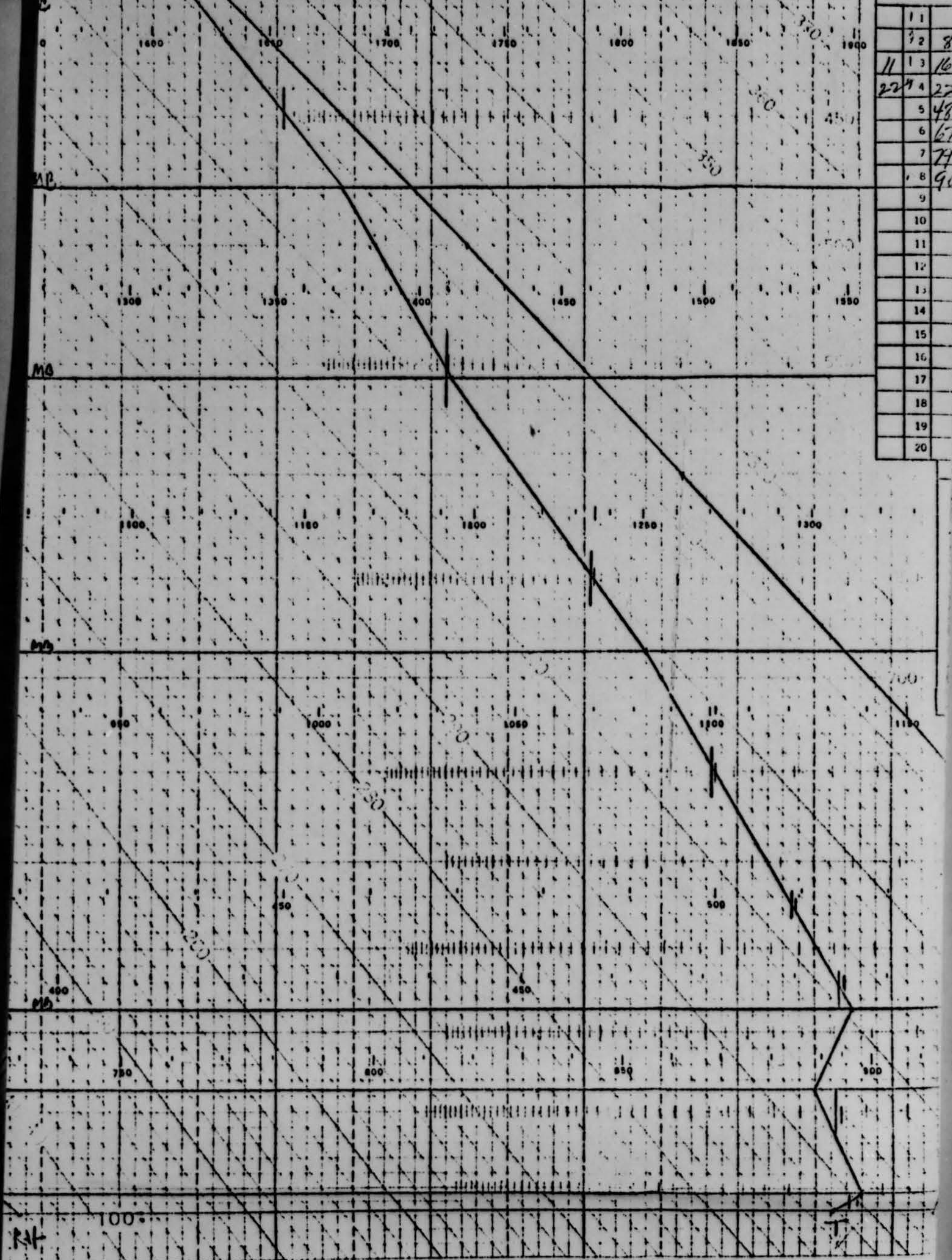
Oakland Airport,
 Station **Oakland, Calif**
 Lat. **37° 46' N.** Long **122° 12' W.**

DATA AS TRANSMITTED	D. P. TO 0.1°C. OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
Q0444	M (g/m)	T
VT ₂ T ₄ T ₆	RH	D.P.
Q044	D (16 pts.)	Wind S (m.p.s.)

A-8

PH - Pressure height
 T - Temperature °C
 RH - Relative Humidity
 Height scale in gpm

11	
12	80
13	16
14	22
15	48
16	67
17	77
18	90
19	
20	



-30° 8 Km. -20° 7 Km. -10° 6 Km. 0° (C.) 5 Km. 10° 4 Km. 20° 3 Km.

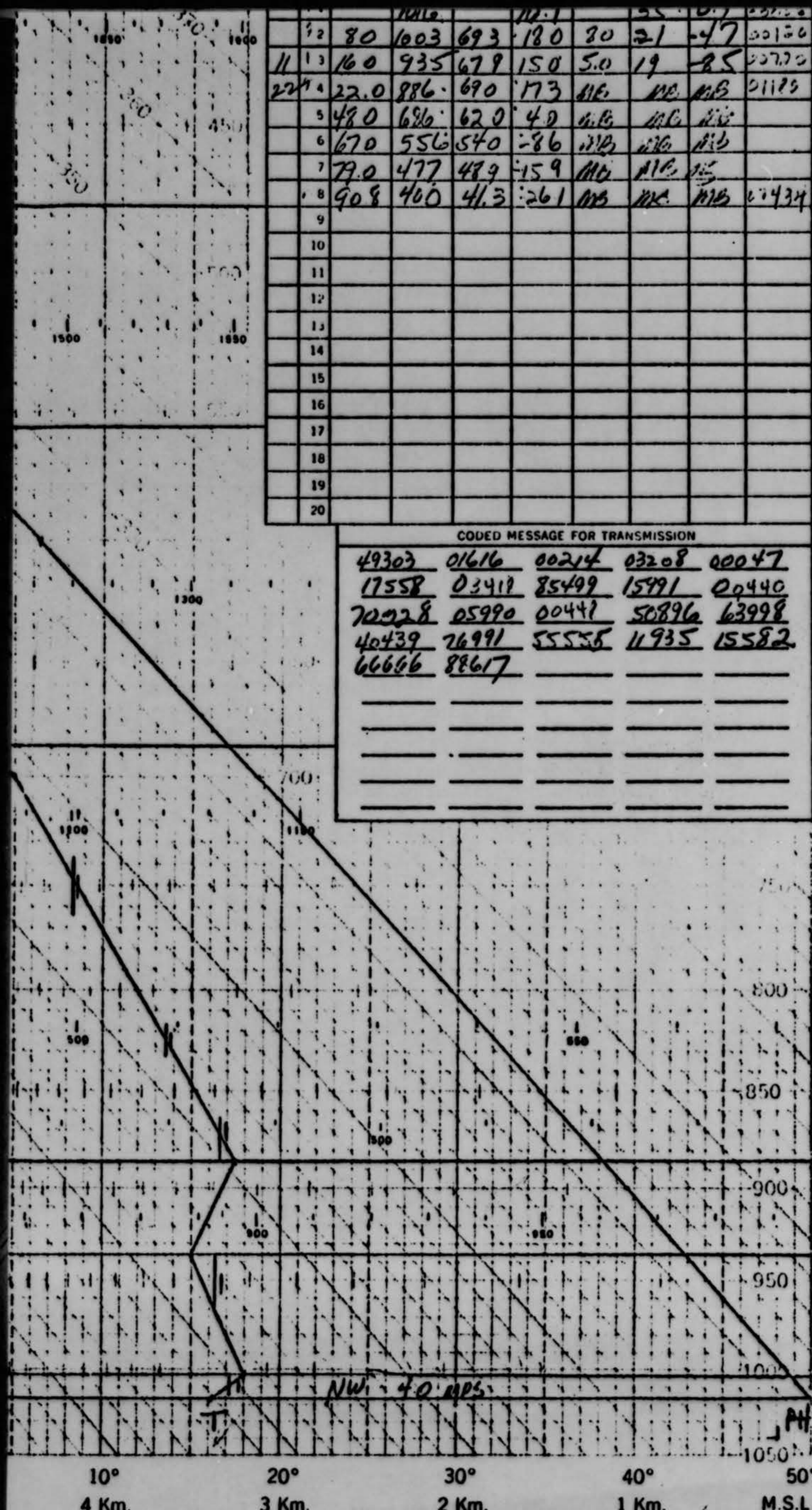
Airport,
 Land, Cam
 128° 12' W.

DATA AS TRANSMITTED	D. P. TO 0.1°C. OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
00000	M (gpm)	T
TTTTT	RH	D.P.
0000	D (16 pts.)	Wind S (m.p.s.)

A-8

PH - Pressure-height
 T - Temperature °d
 RH - Relative Humidity
 Height scale in geopotential meters

Drawn by *Kct*
 Verified by *K*
 Inspected by



12	80	1003	693	180	80	21	47	00120
11	160	935	679	150	5.0	19	25	00770
22	22.0	886	690	173	816	MB	MB	01125
5	480	686	620	40	4.6	MB	MB	
6	670	556	540	-86	MB	MB	MB	
7	79.0	477	489	-159	MB	MB	MB	
8	908	400	41.3	-261	MB	MB	MB	01434
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

6580	-19.4
(17)	

896	5778	-13.8
63948	(16)	MB

5030	-09.1
(15)	

4367	-04.2
(14)	

3720	000.6
(14)	

70028	3132	005.0
05990	(13)	MB
0.14	02	02

2590	008.5
(13)	
0.2	0.32

2030	012.0
(12)	
0.2	0.27

499	152.1	015.1
15991	(12)	MB
0.4	02	020

1036	016.7
(12)	
01	030

0600	015.6
20	
01	02

047	0142	0179
17558	20	-5.5
0.41	15	019

01616	1016	0161
00214	35	0.4
3208	14	004
SURFACE		

CODED MESSAGE FOR TRANSMISSION

49303	01616	00214	03208	00047
17558	03419	85499	15991	00440
70028	05990	00447	50896	63998
40439	76991	55555	11935	15582
66666	88617			

PUNCHED CARD No. 3

PUNCHED CARD No. 2

PUNCHED CARD No. 1

Drawn by K. HINE

Verified by R. E. Lucas

Inspected by _____

DATE AND RELEASE TIME

Year	Month	Day	Time
20	th. Mar	1953	DEC 23 00
G.C.T.	1953	DEC	23 0300
Red-sonde No.	354		

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
SURFACE WEATHER OBSERVATIONS

STATION WRAS, Echo Canyon, Calif. DATE DEC 28 19

TYPE 1	TIME (LST) 2	SKY and CEILING (Hundreds of Feet) 3	VISIBILITY (Miles) 4	WEATHER and OBSTRUCTIONS TO VISION 5	SEA LEVEL PRESS. (mba.) 6	TEMP (°F) 7	DEW PT. (°F) 8	WIND			ALTIM- ETER SET (ins) 12	REMARKS AND SUPPL
								DIREC- TION 9	SPEED (mph) 10	CHARAC- TER AND SHIFTS 11		
R	0630	0	30		213	43	15	↙	16	+22	1021	44839
R	0730	0	30		217	40	10	←	7		1021	105 25051
R	0830	0	30		213	44	13	↙	13		1021	
R	0930	0	30		210	51	10	→	7		1022	Klyt SW
R	1030	0	30		210	54	17	→	9		1024	Smky S-SW
R	1131	0	30		200	57	8	↓	8		1021	Smky SW G
R	1231	0	30		183	60	2	↙	9		1019	Smky W QU
R	1331	0	30		169	60	10	↙	8		1015	Smky SW QU
												0029 24991
L	1430	220 0	30		176	55	31	↘	12		014	SMKY SW
R	1530	220-00	30		180	50	29	↘	6		014	SMKY SW
R	1630	220-00	30		180	48	31	↓	8		013	SMKY SW 607 G
R	1729	220-00	30		183	47	29	↙	9		013	
R	1830	220-00	15+		176	42	11	↙	9		013	
R	1937	220 0	15+		183	47	11	→	6		012	603 0019
R	2030	0	15+		176	46	15	↘	6		012	
R	2130	0	15+		169	44	15	↙	7		012	

CMS 47037-1

SURFACE WEATHER OBSERVATIONS

STATION WBAS, Big Canyon, Calif.

DATE DEC 28 1953

TIME and CEILING (Hundreds of Feet)	VISIBILITY (Miles)	WEATHER and OBSTRUCTIONS TO VISION	SEA LEVEL PRESS. (mba.)	TEMP (°F)	DEW PT. (°F)	WIND			ALTIM- ETER SET (ins)	REMARKS AND SUPPLEMENTAL CODED DATA	OBSER- VERS INITIALS
						DIREC- TION	SPEED (mph)	CHARAC- TER AND SHIFTS			
0	30		213	43	15	↙	16	+22	1021	44839	BK
0	30		217	40	10	←	7		1081	105 25051	BK
0	30		213	44	13	↙	13		1021		BK
0	30		210	51	10	→	7		1022	KLYT SW	BK
0	30		210	54	17	→	9		1024	SMKY S-SW / 108 38 25071	BK
0	30		200	57	8	↓	8		1021	SMKY SW Quad	BK
0	30		183	60	2	↙	9		1019	SMKY W Quad	BK
0	30		169	60	10	↙	8		1015	SMKY SW Quad / 924	BK
										0029 24991	
0-0	30		176	55	31	↙	12		014	SMKY SW	RBN
0-0	30		180	50	29	↙	6		014	SMKY SW	RBN
0-0	30		180	48	31	↓	8		013	SMKY SW 607 0467 60 24979	RBN
0-0	30		183	47	29	↙	7		013		RBN
0-0	15+		176	48	11	↙	9		013		RBN
0-0	15+		183	47	11	→	6		012	603 0019 24966	RBN
0	15+		176	46	15	↙	6		012		RBN
0	15+		169	44	15	↙	7		012		RBN

SURFACE WEATHER OBSERVATIONS

STATION WBAS, Blue Canyon, Calif.

DATE DEC 28 1950

TIME (LST)	STATION PRESSURE (ins)	DRY BULB (°F)	WET BULB (°F)	REL HUMIDITY (%)	TOTAL SKY COVER	CLOUDS AND ObsCURING PHENOMENA															
						LOWEST LAYER			SECOND LAYER			SUMMATION TOTAL	THIRD LAYER			SUMMATION TOTAL	FOURTH LAYER				
						AMT.	TYPE & DIR	HEIGHT	AMT.	TYPE & DIR	HEIGHT		AMT.	TYPE & DIR	HEIGHT		AMT.	TYPE & DIR	HEIGHT		
00		44																			
01	24835	44																			
02		42																			
03		43																			
04	24870	42																			
05		41																			
0630	24885	42.7	32.4	32	0	0			0			0	0				0	0			
0730	24885	37.8	29.7	29	0	0			0			0	0				0	0			
0830	24870	44.3	33.0	28	0	0			0			0	0				0	0			
0930	24900	51.2	36.0	19	0	0	K	20	0			0	0				0	0			
1031	24910	54.2	39.0	23	0	0	K	-	0			0	0				0	0			
1131	24870	56.6	38.5	14	0	0	K	-	0	ci	250	0	0				0	0			
1231	24865	59.7	37.2	10	0	0	K	-	0	ci	250	0	0				0	0			
1331	24840	60.2	40.6	14	0	0	K	-	0	ci	230	0	0				0	0			
1430	24830	55.0	43.3	40	4	0	K	-	4	ci	220	4	0				4	0			
1530	24830	49.8	40.0	43	7	0	K	-	0	ac	130	0	7	ci	220	7	0				
1630	24820	47.9	39.9	51	9	0	K	-	0	ac	120	0	9	ci	220	9	0				
1729	24815	47.3	38.8	46	8	0	ac	130	8	ci	220	8	0				8	0			
1830	24815	48.3	34.6	21	5	0	ac	130	5	ci	220	5	0				5	0			
1931	24810	46.8	33.8	23	2	2	ci	220	0			2	0				2	0			
2031	24810	46.0	34.4	29	0	0	ci	220	0			0	0				0	0			
2130	24805	44.3	33.4	30	0	0			0			0	0				0	0			
2200	24795	45.1																			
23		43																			

SYNOPTIC OBSERVATIONS																			
TIME (GCT)	TIME (LST)	NO.	PRECIP. (ins)	SNOW FALL (ins)	SNOW DEPTH (ins)	MAX TEMP (°F)	MIN TEMP (°F)	HGT. 850 MB. SURFACE	STATE OF GRND & DIR.	SEA STATE & DIR.	SWELL HGT. & DIR.	SWELL PERIOD	SURF. H ₂ O, M ₂ , P ₂ , D ₂	WATER TEMP	SOIL TEMP				
	MID TO 0400	0	0	0	44	42													
	0400	1	0	0	44	41	5030	1											
	1020	2	0	0	54	38	5070	1											
	1620	3	0	0	60	47	4970	1											
	2200	4	0	0	49	43	4950	1											
	MID	0	0	0	46	42													

SUMMARY OF DAY (MIDNIGHT TO MIDNIGHT)														PRECIP & THIRSTY	BEGAN	ENDED	DUR.
24-HR MAX TEMP (°F)	24-HR MIN TEMP (°F)	24-HR PRECIP. (WATER EQUIV (ins))	24-HR SNOWFALL UNMLTD. (ins)	SNOW DEPTH (ins)	PEAK GUST			THICKNESS OF ICE ON WATER (ins)	FROZEN GRND LAYER (ins)		RIVER GAGE						
66	67	68	69	70	SPEED (mph)	DIRECTION	TIME (LST)	74	75	76	77	78	79	80	81	82	
60	38	0	0	0													

REMARKS, NOTES AND MISCELLANEOUS PHENOMENA

SUNRISE ----- SUNSET -----

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SURFACE WEATHER OBSERVATIONS

STATION WBAS, Blue Canyon, Calif. DATE DEC 28 1953

WET BULB (°F)	REL HUMIDITY (%)	TOTAL SKY COVER	CLOUDS AND OBSCURING PHENOMENA												PRESSURE TENDENCY	NET 3-HR CHANGE	38	39	40			
			LOWEST LAYER			SECOND LAYER			SUMMATION TOTAL	THIRD LAYER			SUMMATION TOTAL	FOURTH LAYER								
			AMT.	TYPE & DIR	HEIGHT	AMT.	TYPE & DIR	HEIGHT		AMT.	TYPE & DIR	HEIGHT		AMT.						TYPE & DIR	HEIGHT	
																	5	005				
																	1	035				
32.4	32	0	0			0			0	0			0	0					0			
29.7	29	0	0			0			0	0			0	0					1	015	0	
33.0	28	0	0			0			0	0			0	0							0	
36.0	19	0	0	K	20	0			0	0			0	0							0	
39.0	23	0	0	K	-	0			0	0			0	0					1	025	0	
38.5	14	0	0	K	-	0	ci	250	0	0			0	0							0	
37.2	10	0	0	K	-	0	ci	250	0	0			0	0							0	
40.6	14	0	0	K	-	0	ci	220	0	0			0	0					9	070	0	
43.3	40	4	0	K	-	4	ci	220	4	0			4	0							4	
40.0	43	7	0	K	-	0	ac	130	0	7	ci	220	7	0							4	
39.9	51	9	0	K	-	0	ac	130	0	9	ci	320	9	0					6	020	4	
38.8	46	8	0	ac	130	8	ci	220	8	0			8	0							2	
34.6	21	5	0	ac	130	5	ci	220	5	0			5	0							2	
33.8	23	2	2	ci	220	0			2	0			2	0					6	010	1	
31.4	29	0	0	ci	220	0			0	0			0	0							0	
33.4	30	0	0			0			0	0			0	0							0	
																			9	015		

SYNOPTIC OBSERVATIONS

SNOW FALL (ins)	SNOW DEPTH (ins)	MAX TEMP (°F)	MIN. TEMP (°F)	HGT. 850 MB. SURFACE	STATE OF GRND	SEA STATE & DIR.	SWELL HGT. & DIR.	SWELL PERIOD	SURF H _s H _m H _{1/3} D _s D _m D _{1/3}	WATER TEMP	SOIL TEMP	37	38	STATION PRESSURE COMPUTATIONS			
														TIME (LST)	59	60	61
0	0	44	42											1025	1625	2200	
0	0	44	41	5030	1									75.0	72.0	74.0	
0	0	54	38	5070	1									25.027	24.923	24.912	
0	0	60	47	4970	1									-.120	-.113	-.118	
0	0	49	43	4950	1									24.909	24.820	24.774	
0	0	46	42											24.870	24.875	24.810	24.790
0	0	46	42											+0.015	+0.010	+0.005	

SUMMARY OF DAY (MIDNIGHT TO MIDNIGHT)

4-HR PERIOD	SNOW FALL (ins)	SNOW DEPTH (ins)	PEAK GUST			THICKNESS OF ICE ON WATER (ins)	FROZEN GRND LAYER (ins)		RIVER GAGE	77	78	79	80	81	PRECIP & THORSTM	BEGAN	ENDED	DUR	OBSTR TO VIS	BEGAN	ENDED	DUR
			SPEED	DIRECTION	TIME (LST)		TOP	BASE														
0	0																					

REMARKS, NOTES AND MISCELLANEOUS PHENOMENA

SUNSET.....

A-14

STATION CHICO CHIEF DATE 12/28/53

TYPE	TIME (LST)	CEILING (Hundreds of Feet)	SKY	VISIBILITY (Miles)	WEATHER and OBSTRUCTIONS TO VISION	SEA LEVEL PRESS. (mba.)	TEMP (°F)	DEW PT. (°F)	WIND			ALTIMETER SET (ins)	REMARKS AND SUPPLEMENT
									DIRECTION	SPEED (mph)	CHARACTER AND SHIFTS		
R	0445		0	15+			40	29		C	E020		
R	0540		0	15+			39	29		C	E020		
L	0700		0	5+			36	27		C	E020		
R	0730		0	70			37	26		N 6E	E021		
R	0835		0	15+			45	32		N 5E	E022		
R	0930		0	10			49	33		N 5E	E022		
R	1035		0	6	HK		54	35		N 5E	E021		
R	1130		0	7			M	M		N 6E	E016		
R	1235		0	7			58	34		N 5E	E013		
R	1330		300-0	7			61	38		↑ 5E	E011		
R	1424	200-0	300-0	8			62	37		↑ 6E	E010		
R	1540	250-0		8			58	38		N 4E	E010		
R	1639	300-0	400-0	6	HK		55	38		← N 7E	E008	BINDUC	
R	1740	300-0	400-0	4	HK		52	36		← N 7E	E009		
R	1832	400-0		6	HK		48	36		← 5E	E008		
R	1935	400-0		10			47	37		← 5E	E009		
12/29/53													
L	0700		0	10			36	30		C	E011	THN PATCHES GF	
R	0725		0	15+			37	32		↓ 1E	E012		
R	0833		0	70			38	30		↓ 3E	E013		
R	0931	300-0		70			42	32		↓ 5E	E015		
R	1039	300-0		70			50	32		↓ 12E	E014		
R	1141	300-0		70			M	M		↓ 10E	E011		
R	1232	300-0		70			61	39		↓ 15E	E009		
R	1325	300-0		70			64	38		↓ 17E	E007		
R	1433		0	70			63	36		↓ 17E	E007		
R	1535		0	70			60	39		↓ 15E	E007		
R	1630		0	70			60	31		↓ 12E	E007		
R	1735		0	15+			54	34		↓ 7E	E008		
R	1830		0	15+			49	34		↑ 6E	E011		
R	1928		0	15+			49	36		↑ 8E	E013		
12/30/53													
R	0732		0	10			36	32		↓ 2E	E035		
R	0840		0	8			35	30		↓ 7E	E037		
R	0928		0	6	HK		39	32		↓ 7E	E038		
R	1042		0	5	HK		46	35		↓ 7E	E038		
R	1135		0	10			50	35		↓ 5E	E036		
R	1239		0	15			55	35		↓ 5E	E033		
R	1329		0	15			58	36		↓ 6E	E032		
R	1444		0	15			M	M		↓ 5E	E030		
R	1546		0	15			60	37		↓ 5E	E030		
R	1628		0	15+			59	37		C	E031		
R	1715		0	15+			49	37		↓ 7E	E032		
R	1845		0	15+			48	38		C	E032		
R	1929		0	15			46	38		↓ 3E	E032		

CHS 67037-1

SURFACE WEATHER OBSERVATIONS

STATION CHICO CHIC DATE 12/28/53

SKY	VISIBILITY (Miles)	WEATHER and OBSTRUCTIONS TO VISION	SEA LEVEL PRESS. (mb.)	TEMP (°F)	DEW PT. (°F)	WIND			ALTIM- ETER SET (ins)	REMARKS AND SUPPLEMENTAL CODED DATA	OBSER- VERS INITIALS	
						DIREC- TION	SPEED (mph)	CHARAC- TER AND SHIFTS				
0	15+			46	29		C		E020	0 400 130	FH	
0	15+			39	29		C		E020	0 528 134	FH	
0	5+			36	27		C		E020	0 136 132.5	AT	
0	70			37	26		N 6E		E031	0 37.0 133	AT	
0	15+			45	32		N 5E		E022	0 45.0 139.5	AT	
0	10			49	33		N 5E		E022	0 49.0 142.0	AT	
0	6 HK			54	35		N 5E		E021	0 54.3 145.0	AT	
0	7			M	M		N 6E		E016	0 1 11 M	AT	
0	7			58	34		N 5E		E013	0 58.4 147	AT	
0	7			61	38		↑ 5E		E011	3 16.0 149.2	AT	
0	8			62	37		↑ 6E		E010	7 62.0 149.6	AT	
0	8			58	38		N 4E		E020	10 58.2 148.2	FM	
0	6 HK			55	38		← 7E		E008	10 55.0 146.8	FM	
0	4 HK			52	36		← 7E		E009	9 52.9 144.4	FM	
0	6 HK			48	36		← 5E		E008	7 48.0 142.7	FM	
0	10			47	37		← 5E		E009	5 47.1 142.6	FM	
12/29/53												
0	10			36	30		C		E011	THN PATCHES 6E SE	0 36.0 136	FH
0	15+			37	32		↓ 1E		E012	0 37.0 135	FH	
0	70			38	30		↓ 3E		E013	0 38.0 135	FH	
0	70			42	32		↓ 5E		E015	1 42.0 138.2	FH	
0	70			50	32		↓ 12E		E014	1 50.0 142.3	FH	
0	70			M	M		↓ 10E		E011	6 M 14	FH	
0	70			61	39		↓ 15E		E009	4 16.0 149.9	FH	
0	70			64	33		↓ 17E		E007	2 63.9 149.3	FH	
0	70			62	36		↓ 17E		E007	0 62.3 150.1	FH	
0	70			60	38		↓ 18E		E007	0 60.2 149.7	AT	
0	70			60	31		↓ 12E		E007	0 59.5 146.0	AT	
0	15+			54	34		↓ 7E		E008	0 54.2 143.5	AT	
0	15+			49	34		↑ 6E		E011	0 49.0 142.4	AT	
0	15+			49	36		↑ 8E		E013	0 49.0 143.0	AT	
12/30/53												
0	10			36	32		↓ 2E		E038	0 36.0 134.5	FH	
0	8			35	30		↓ 7E		E037	0 35.2 133.0	FH	
0	6 HK			39	32		↓ 7E		E033	0 38.9 131.0	FH	
0	5 HK			46	35		↓ 7E		E038	0 46.3 141.1	FH	
0	10			50	35		↓ 5E		E036	0 50.2 133.2	FM	
0	15			55	35		↓ 5E		E033	0 54.9 145.7	FM	
0	15			58	36		↓ 6E		E032	0 57.5 147.4	FM	
0	15			M	M		↓ 5E		E030	0 1 M 131	FH	
0	15			60	37		↓ 5E		E030	0 60.0 148.8	FH	
0	15+			59	37		C		E031	0 59.1 148.9	FH	
0	15+			49	37		↓ 2E		E032	0 49.0 143.3	FM	
0	15+			42	38		C		E032	0 42.0 143.3	FH	
0	15			46	38		↓ 3E		E032	0 46.3 142.4	FH	

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