

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	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. Copy for Hynes
6. TYPE OF OBSERVATION ground vis	
7. COURSE - - -	
8. PHOTOS ☐ Yes ☒ No	
9. PHYSICAL EVIDENCE ☐ Yes ☐ No	

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 104

TYPE	TIME (LST)	CEILING hundreds of feet AND SKY	VISIBILITY (Miles)	WEATHER AND OBSTRUCTIONS TO VISION	SEA LEVEL PRESS (mb)	TEMP (°F)	DEW PT (°F)	WIND			CHARAC- TER AND SHIFTS	ALTIM- ETER SET (ft)	REMARKS AND SUPPLEMENTAL CODED DATA
								DIRECTION	SPEED (Knots)	SPEED (mph)			
1	2	3	4	5	6	(7)	8	9	10	11	12	13	
EX	R 0000	250 (1)	15+		197 40 22	←	10	12			011	500K	
EX	R 0000		15		202 42 33	←	10	12			017	317	
EX	R 0000	250 (1)	10		219 41 24	←	5	6			017	11191	
EX	R 0326	250 (1)	10		219 40 35	←	5	6			017		
EX	R 0429		8		217 39 24	→	5	6			017	012 39	
EX	R 0530		8		219 39 33	←	4	5			018	0/963	
EX	R 0629		10		219 40 33	←	9	10			018		
EX	R 0727		6	H	219 40 31	←	9	10			018	103	
EX	R 0828		6	H	228 40 32		C	C			017	0/933	
EX	R 0927		6	H	230 43 35		C	C			021		
EX	R 1028		6	H	233 48 36		C	C			022	VSBY SW 28/ 314 39	
EX	R 1127		6	H	224 55 35		C	C			019	0/933	
EX	R 1326		6	H	213 58 35		C	C			016		
EX	R 1328		6	H	199 59 36	↑	7	8			012	832	
EX	R 1427		6	H	192 60 35	↑	8	9			010	11191	
EX	R 1528	250 (1)	6	H	192 60 35	↑	7	8			010		
EX	R 1627	250 (1)	6	H	189 59 37		C	C			009	812 0049 60	
EX	R 1729	250 (1)	6	H	184 53 41		C	C			008	11191	
EX	R 1828	250 (1)	6	H	183 47 38	↖	9	10			008		
EX	R 1929	250 (1)	6	H	180 45 38	↖	10	12			007	905 0019	
EX	R 2029	250 (1)	6	H	180 45 38	↖	14	16			007	11191	
EX	R 2130	250 (1)	7		180 44 37	↖	12	14			007		
EX	R 2229	250 (1)	7		184 43 36	↖	7	8			008	402 0019 60	
EX	R 2330	250 (1)	7		185 43 37	↖	9	10			008	11191	

23206

SURFACE WEATHER OBSERVATIONS

WBAN FORM 108

REMARKS AND SUPPLEMENTAL CODED DATA 13	16A	14B	OBSERVER INITIALS 15	TIME (LST) 16	STATION PRESSURE (mb) 17	DRY BULB (°F) 18	WET BULB (°F) 19	REL. HUMIDITY (%) 20	TOTAL SKY COVER 21	CLOUDS AND OBSCURING PHENOMENA											
										LOWEST LAYER			SECOND LAYER			TOTAL 25	THIRD LAYER			TOTAL 32	
										AMT 22	TYPE AND DIR 23	HEIGHT 24	AMT 26	TYPE AND DIR 27	HEIGHT 28		AMT 29	TYPE AND DIR 30	HEIGHT 31		
20K			25	0000	30.00	48.4	40.2	46	4	4	CS	250	0			4	0			4	0
317			25	0100	30.00	42.2	38.2	69	0	0			0			0	0			0	0
0001			25	0200	30.00	40.6	38.0	77	2	3	CS	250	0			2	0			2	0
012 39			25	0300	30.00	40.4	37.9	79	2	2	CS	250	0			2	0			2	0
0/963			25	0400	30.00	38.8	36.6	81	0	0			0			0	0			0	0
103			25	0500	30.00	38.6	36.2	79	0	0			0			0	0			0	0
0/933			25	0600	30.00	40.0	37.0	75	0	0			0			0	0			0	0
103			25	0700	30.00	39.6	36.0	70	0	0			0			0	0			0	0
0/933			25	0800	30.00	39.7	35.4	72	0	0			0			0	0			0	0
VSBY SW 28/ 314 39			25	0900	30.00	42.6	39.1	73	0	0			0			0	0			0	0
0/933			25	1000	30.00	42.4	38.4	63	0	0			0			0	0			0	0
832			25	1100	30.00	54.7	45.6	41	0	0			0			0	0			0	0
11191			25	1200	30.00	58.1	47.2	42	0	0			0			0	0			0	0
8/2 0049 60			25	1300	30.00	59.2	48.1	42	0	0			0			0	0			0	0
11191			25	1400	30.00	60.3	48.2	38	0	0			0			0	0			0	0
8/2 0049 60			25	1500	29.95	59.9	48.1	39	2	2	CS	250	0			2	0			2	0
11191			25	1600	29.95	58.6	48.2	44	5	5	CS	250	0			5	0			5	0
205 0019			25	1700	29.95	52.8	47.0	64	5	5	CS	250	0			5	0			5	0
11191			25	1800	29.95	47.2	42.8	70	4	4	CS	250	0			4	0			4	0
205 0019			25	1900	29.95	45.4	42.0	75	4	4	CS	250	0			4	0			4	0
11191			25	2000	29.95	45.2	41.5	76	3	3	CS	250	0			3	0			3	0
402 0019 60			25	2100	29.970	43.8	41.8	78	1	1	CS	250	0			1	0			1	0
11191			25	2200	29.975	43.2	41.2	77	1	1	CS	250	0			1	0			1	0
			25	2300	29.975	42.8	40.0	78	1	1	CS	250	0			1	0			1	0

SYNOPTIC OBSERVATIONS																
TIME (G.C.T.) 41	TIME (L.S.T.) 42	NO. 43	PRECIP (mm) 44	SNOW FALL (mm) 45	SNOW DEPTH (mm) 46	MAX TEMP (°F) 47	MIN TEMP (°F) 48	HEIGHT 850 MB SURFACE 49	STATE OF CLOUDS 50	SEA STATE AND DIR 51	SWELL HEIGHT AND DIR 52	SWELL PERIOD 53	SURFACE WIND (mph) Pk Ps Ds 54	WATER TEMP 55	SOIL TEMP 56	ST 57
0000	0000	1	0	0	0	51	29									
0100	0100	1	0	0	0	54	29									
0200	0200	1	0	0	0	48	39									
0300	0300	1	0	0	0	60	48									
0400	0400	1	0	0	0	59	48									
0500	0500	1	0	0	0	59	48									

SUMMARY OF DAY (MIDNIGHT TO MIDNIGHT)															PRECIP AND THORSTEN 62	BEGAN 63
24-HR MAX TEMP (°F) 64	24-HR MIN TEMP (°F) 65	24-HR PRECIP. WATER EQUIV. (mm) 66	24-HR SNOWFALL UNMELTD. (mm) 67	SNOW DEPTH (mm) 68	PEAK GUST SPEED (mph) 69	DIRECTION 70	TIME (L.S.T.) 71	THICKNESS OF ICE ON WATER (mm) 72	FROZEN GRIND LAYER (mm) 73	RIVER GAGE 74	24-HR MAX R. H. (%) 75	24-HR MIN R. H. (%) 76	77	78		
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78		

REMARKS, NOTES AND MISCELLANEOUS PHENOMENA 90	
SUNRISE: _____ SUNSET: _____	

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23206

STATION Mather AFB Calif.
 MONTH Dec DAY 28 YEAR 1953
 LAT 33°24'N LONG 121°13'W

WBAN FORM 108

OBSERVATIONS

TIME (LST)	STATION PRESSURE (in)	DRY BULB (°F)	WET BULB (°F)	REL HUMIDITY (%)	TOTAL SKY COVER	CLOUDS AND OBSCURING PHENOMENA										TOTAL OBSERV SKY COVER %	PRES TENDCY	NET 3-HR CHANGE						
						LOWEST LAYER			SECOND LAYER			SUMMA TION TOTAL 26	THIRD LAYER								SUMMA TION TOTAL 32	FOURTH LAYER		
						AMT 22	TYPE AND DIR 23	HEIGHT 24	AMT 25	TYPE AND DIR 26	HEIGHT 27		AMT 29	TYPE AND DIR 30	HEIGHT 31							AMT 33	TYPE AND DIR 34	HEIGHT 35
0000	30.00	48.4	40.4	46	4	4	CS	250	0			4	0			4	0			2				
0100	30.00	42.2	38.2	69	0	0			0	0		0	0			0	0			0	0	0.65		
0200	30.06	40.8	39.0	77	2	3	CS	250	0			3	0			3	0			2				
0300	30.07	40.4	37.9	79	2	2	CS	250	0			2	0			2	0			2				
0400	30.05	38.8	36.6	81	0	0			0	0		0	0			0	0			0	0	0.035		
0500	30.05	39.6	36.2	79	0	0			0	0		0	0			0	0			0				
0600	30.07	40.0	37.0	75	0	0			0	0		0	0			0	0			0				
0700	30.07	39.6	36.0	70	0	0			0	0		0	0			0	0			0	1	0.00		
0800	30.02	39.7	36.4	72	0	0			0	0		0	0			0	0			0				
0900	30.05	42.6	39.1	73	0	0			0	0		0	0			0	0			0				
1000	30.15	47.8	42.4	63	0	0			0	0		0	0			0	0			0	3	0.40		
1100	30.09	54.7	45.6	47	0	0			0	0		0	0			0	0			0				
1200	30.05	58.1	47.2	43	0	0			0	0		0	0			0	0			0				
1300	30.00	59.2	48.1	42	0	0			0	0		0	0			0	0			0	8	0.95		
1400	30.00	60.3	48.2	38	0	0			0	0		0	0			0	0			0				
1500	29.95	59.9	48.1	39	2	3	CS	250	0			2	0			2	0			2				
1600	29.95	58.6	48.2	44	5	5	CS	250	0			5	0			5	0			3	8	0.035		
1700	29.97	52.8	47.0	64	5	5	CS	250	0			5	0			5	0			4				
1800	29.95	47.2	42.8	70	4	4	CS	250	0			4	0			4	0			4				
1900	29.92	45.4	42.0	75	4	4	CS	250	0			4	0			4	0			4	9	0.015		
2000	29.90	46.2	41.5	76	3	3	CS	250	0			3	0			3	0			3				
2100	29.97	43.8	41.8	99	1	1	CS	250	0			1	0			1	0			1				
2200	29.95	43.2	41.2	77	1	1	CS	250	0			1	0			1	0			1	4	0.005		
2300	29.97	42.8	40.0	78	1	1	CS	250	0			1	0			1	0			1				

SYNOPTIC OBSERVATIONS

TIME (LST)	TIME (LST)	NO	PRECIP (in)	SNOW- FALL (in)	SNOW- DE-TH (in)	MAX TEMP (°F)	MIN TEMP (°F)	HEIGHT 850 MB SURFACE	STATE OF ORND	SEA STATE AND DIR	SWELL HEIGHT AND DIR	SWELL PERIOD	SURFACE WIND No Ps Dir	WATER TEMP	SOIL TEMP	STATION PRESSURE COMPUTATION			
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
2000	2100	2200	2300	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500
1600	1700	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300	0400	0500	0600	0700
0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300
0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
1600	1700	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300	0400	0500	0600	0700
0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300
0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300

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 UNMELT. (in)	SNOW DEPTH (in)	PEAK GUST SPEED (mph)	DIREC TION (LST)	THICK- NESS OF ICE ON WATER (in)	FROZEN ORND LAYER (in)	RIVER GAGE	24-HR MAX R. H. (%)	24-HR MIN R. H. (%)	81
67	31	0	0	0	36	N	0	0	—	41	31	

REMARKS, NOTES AND MISCELLANEOUS PHENOMENA

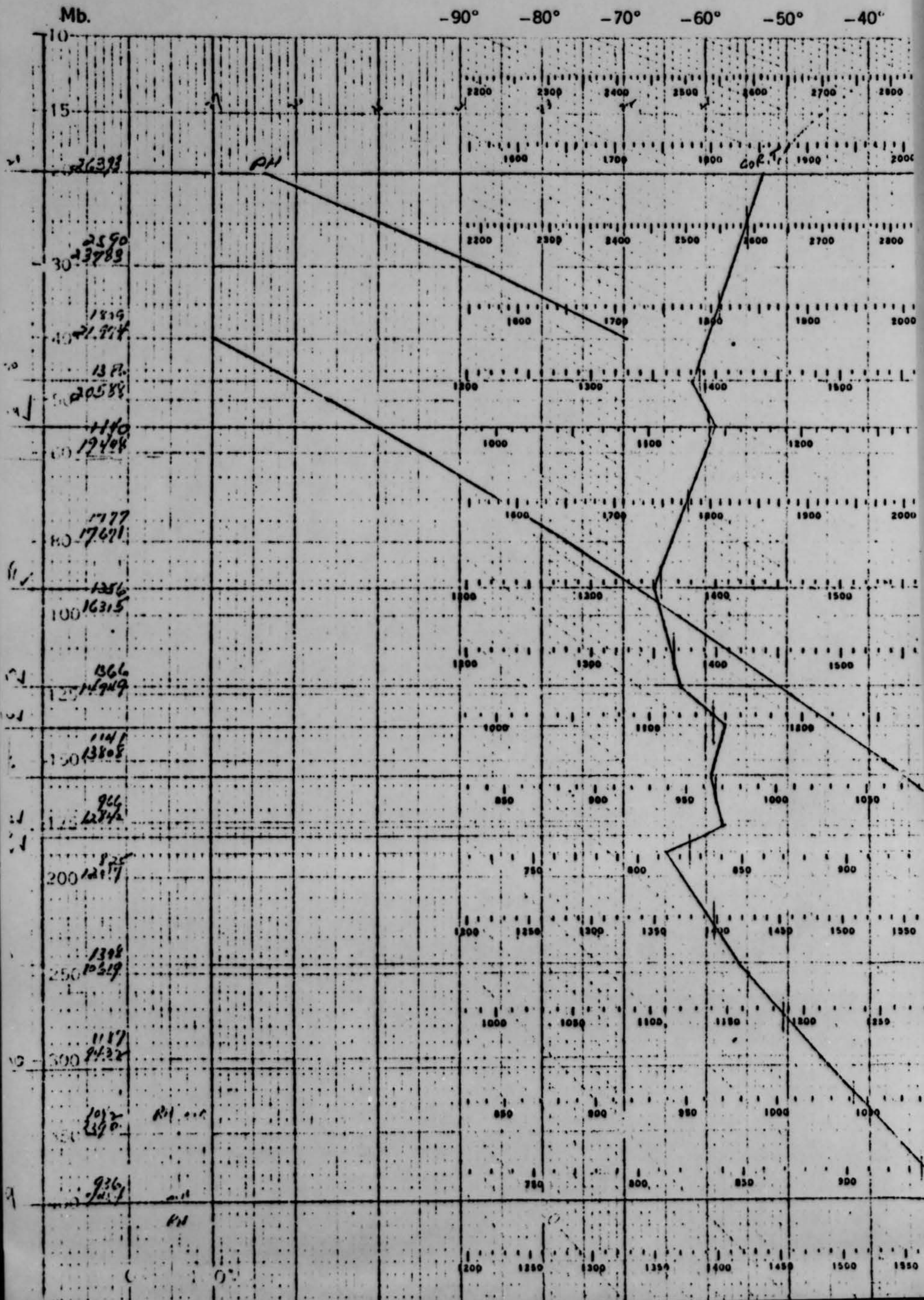
90

SUNRISE _____ SUNSET _____

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ADIABATIC CHART

WBAN-31B

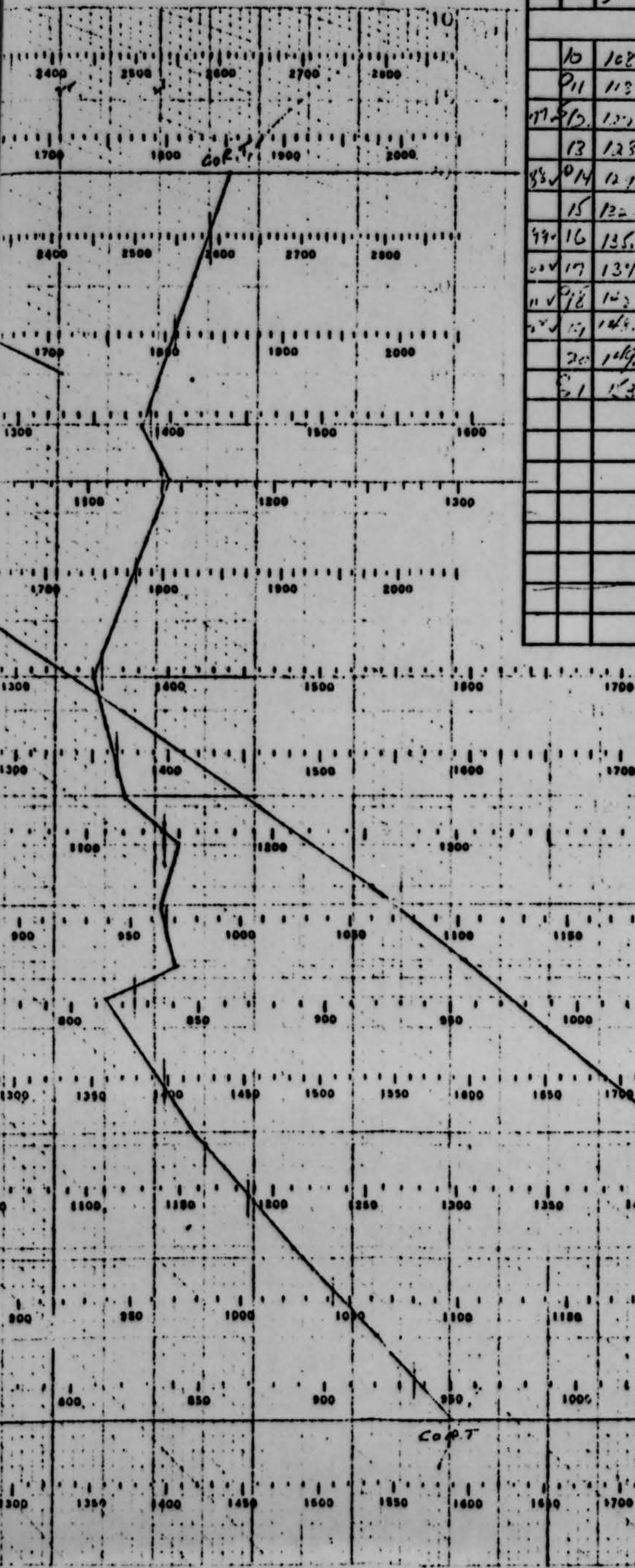


HYGROGRAPHIC CHART

WBAN-31B

DATA BLOCK B

-70° -60° -50° -40° -30°



Code Check	Level No.	PRESSURE		TEMPERATURE				RELATIVE HUMIDITY	
		Contact	mb.	Ordinate	Ascent (°C)	Correction	Corrected	Ordinate	Including Correction of
SIGNIFICANT LEVELS									
	10	102.0	306	27.3	44.5	-0.7	-44.2		
	11	113.0	214	17.7	55.9	-0.3	-55.6		
11	12	127.0	14	14.6	65.0	-0.4	-64.6		
	13	123.0	17.1	17.2	51.9	0.4	-6.1		
88	14	121.0	77	18.6	31.5	-0.4	31.1		
	15	122.0	17.8	17.8	31.5	-0.4	31.1		
99	16	135.0	18.8	18.8	31.1	-0.4	30.7		
00	17	137.4	15.6	15.6	62.6	-0.4	62.2		
11	18	142.0	14.0	14.0	65.6	-0.5	65.1		
22	19	148.0	13.4	13.4	57.7	-0.5	57.2		
	20	149.2	47	16.9	63.4	-1.0	62.4		
	21	153.1	22.9	22.9	51.1	-1.8	49.3		

CODED MESSAGE FOR TRANSMISSION

492.5. 300.5. 95990. 20.12.2
 15530. 07.209. 10353. 15743
 10994. 6.5. 12915. 1750.
 12213. 09216. 05.39.

SOLAR RADIATION RACON TEM

1. Time, LST, at 200 m at termination, if bet 400 mb. and 200 m.
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

Co. P. T

PH

-70° -60° -50° -40° -30° -20° -10° 0° 10° (°C.)

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	°C	
		S.									
SIGNIFICANT LEVELS											
	10		102.0	306	27.3	-44.5	-0.2	-44.3			
	11		113.0	304	19.7	-55.9	-0.3	-56.1			10750
	12		122.0	1.4	14.6	-5.0	-0.4	-6.4			12240
	13		128.0	151	19.2	-51.9	0.4	-6.1			
	14		121.0	77	18.6	-51.5	-0.4	51.1			12800
	15		132.0	151	17.8	-51.5	-0.4	51.2			
	16		135.0	27	18.8	-51.1	-0.4	51.5			
	17		137.4	11	15.6	-62.6	-0.4	63.3			
	18		142.0	12	14.0	-65.6	-0.5	66.1			1634
	19		143.0	1	13.4	-57.9	-0.6	58.9			
	20		149.2	47	16.9	-65.4	-1.0	66.4			
	21		153.1	20	22.7	-51.1	-1.8	52.9			2637

CODED MESSAGE FOR TRANSMISSION

492.5. 302.5. 95990. 22.42. 12.12.
 15530. 09209. 10353. 15793. 0515.
 10994. 65.5. 12415. 1700. 12708.
 12213. 09216. 0519.

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. Difference between (3) and solar noon.	4.5
5. Elevation angle of sun.	0°
6. Elapsed time from 200 mb. to terminating level.	25.1
7. Ascensional rate	35.1

CONSTANT PRESSURE DATA

6:73	-52.9

3783	-56.7

1974	-59.3

0875	0583	-50.4
1099		
0		

9448	-60.0

7.1	-64.1

1035	6.15	-65.3
1599		
0		

4740	-62.5

15530	3905	-5.9
5999		
0		

2.42	-57.1

20942	2517	-62.0
13992		
0		

0619	-55.2

20205	9422	-46.5
16490		
0		

5390	-37.5
1221	
15	077

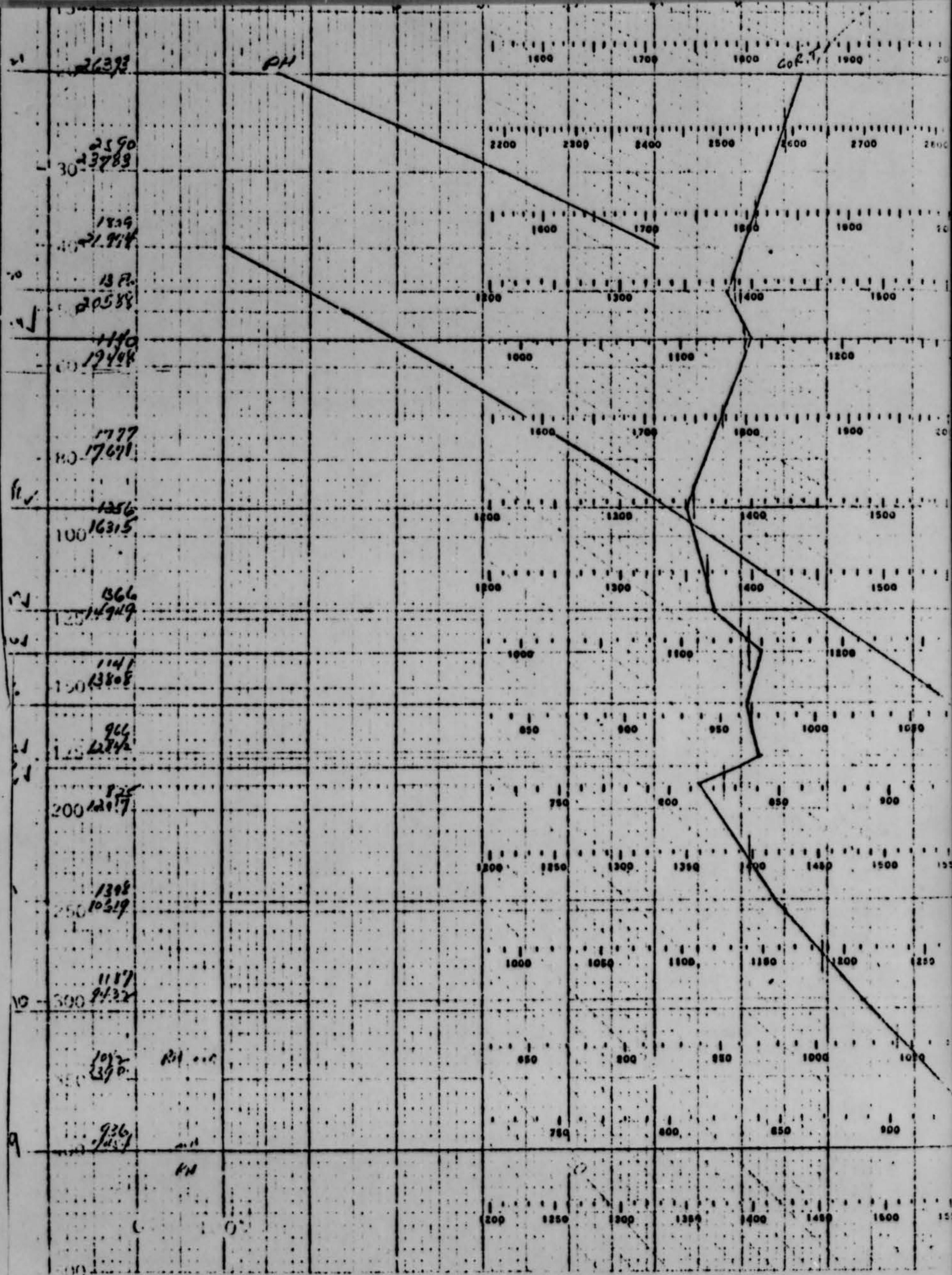
PUNCHED CARD No. 6

PUNCHED CARD No. 7

PUNCHED CARD No. 5

PUNCHED CARD No. 4

PUNCHED CARD No. 3



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	
QDalt	H (gpm)	T
TTT ₀ T ₀	*RH	*D.P.
QdH	D (16 pts.)	Wind S (m.p.s.)

*Omitted above 200 mbs.

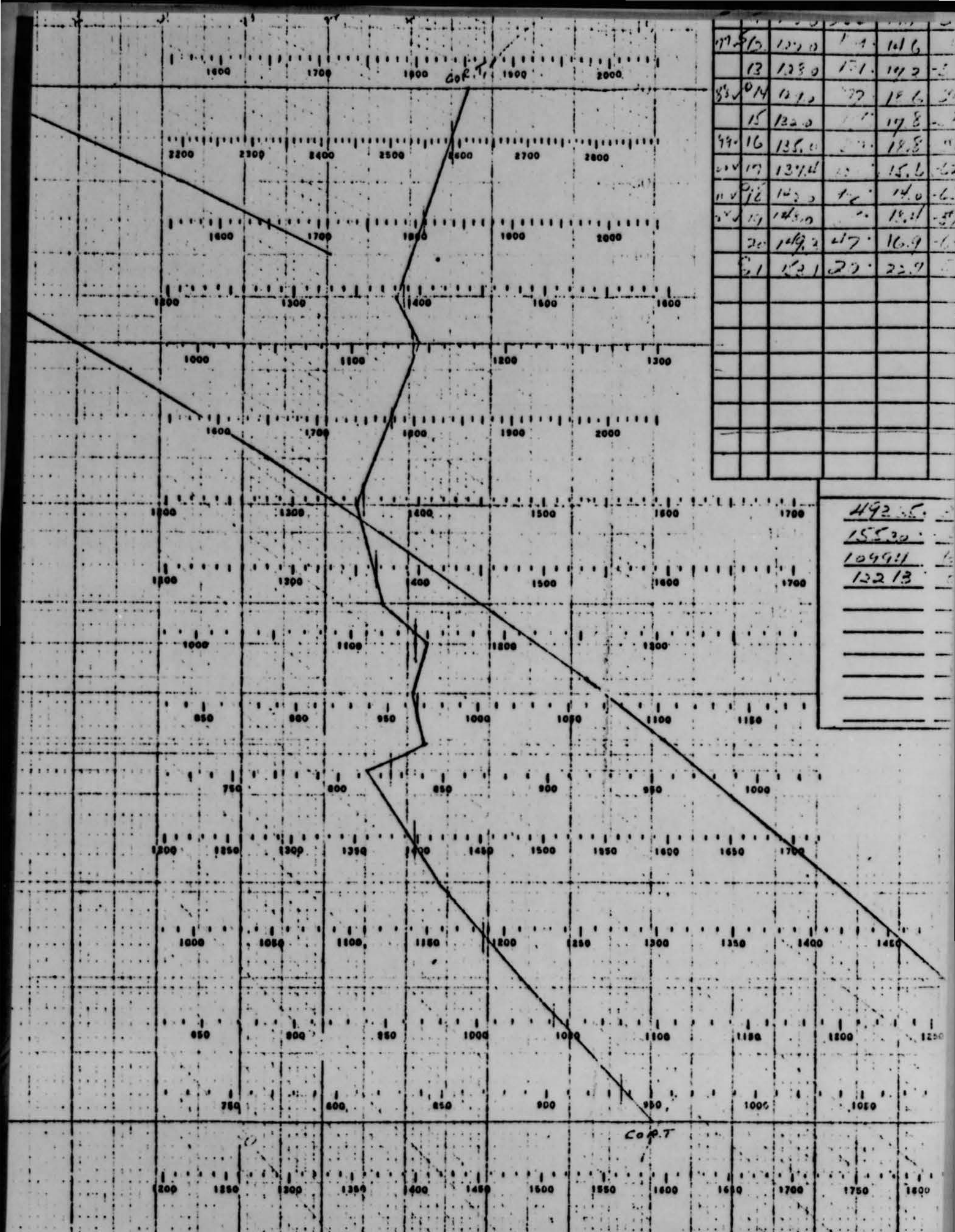
PH—Pressure-height

T—Temperature °C

RH—Relative Humidity

Height scale in geopotential meters

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12	1210	1.4	14.6
13	1230	1.1	14.2
14	1240	1.2	14.6
15	1250	1.1	14.8
16	1300	1.1	14.8
17	1310	1.1	15.6
18	1320	1.1	14.0
19	1330	1.1	14.1
20	1340	1.1	16.9
21	1350	1.1	22.7

492.5
15530
10991
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	
DDHH	H (gpm)	T
TTT ₀ T ₀	°RH	°D.P.
DDHH	D (16 pts.)	Wind S (m.p.s.)

*Omitted above 200 mbs.

A-11

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 _____

121 V.

13	1280	171	172	-317	0.4	-6.1			
14	1210	177	186	-315	-0.4	571			12800
15	1320	177	178	-315	0.4	572			
16	1350	177	178	-317	-0.4	115			
17	1370	177	156	-626	-0.4	-635			
18	1400	177	140	-656	-0.5	-11.1			16340
19	1430	177	131	-577	-0.6	559			
20	1490	177	169	-640	-1.0	-114			
21	1531	220	227	511	-1.8	527			26370

CODED MESSAGE FOR TRANSMISSION

49255 30205 96990 20422 12400
 15530 07209 10352 15793 05155
 10994 66115 12915 17500 12708
 12213 09216 05537

SOLAR RADIATION CORRECTIONS FOR RAOB 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. Difference 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. Ascensional rate	30.0 35.0

6:73 -52.9

3783 -56.7

1974 -59.9

05 75 0588 -0.4
1099 -

9448 -60.0

7.1 -64.1

10 35 6:15 -65.3
13993 -

4740 -62.0

10 36 3:00 -5.9
5949 -

2042 -57.1

20942 2017 -60.0
13992 -

0619 -55.2

20295 9425 -46.5
76490 -

8390 -37.5
1221
15 037

PUNCHED CARD No. 7

PUNCHED CARD No. 6

PUNCHED CARD No. 5

PUNCHED CARD No. 4

-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. VOESTE

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
Radiosonde No.	352937			
Ascension No.	703			



BASELINE CHECK READINGS

Time G.C.T.	TEMPERATURE			RELATIVE HUMIDITY			
	Ordinate	Dry	Wet	Ordinate	Roob	Cor.	Psychrometer
1450	64.4	18.0	12.4°C	73.6	71	-3	Water 68

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

ADIABATIC CHART

WBAN-31A



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



REPLY TO
ATTN OF: USAF (ETACOL-1)

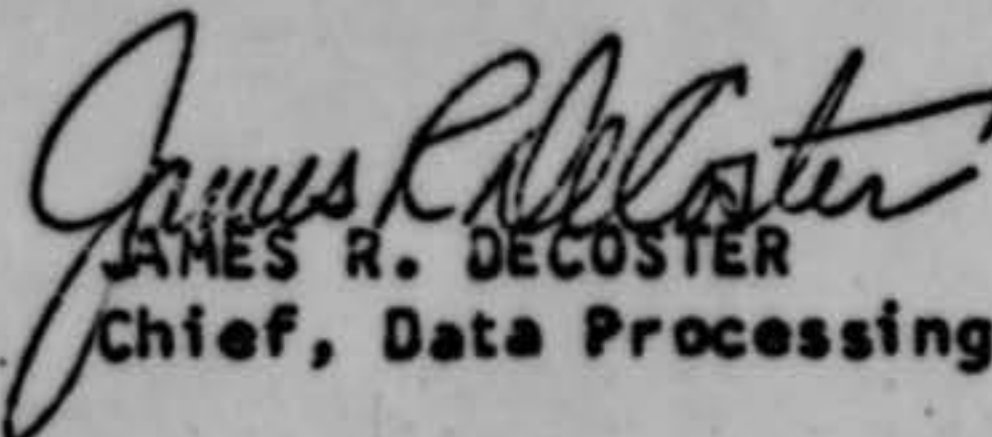
27 Aug 1968

SUBJECT: Shipment of Climatological Data

TO: FTD-TDPTR-4 (SSgt Kist)

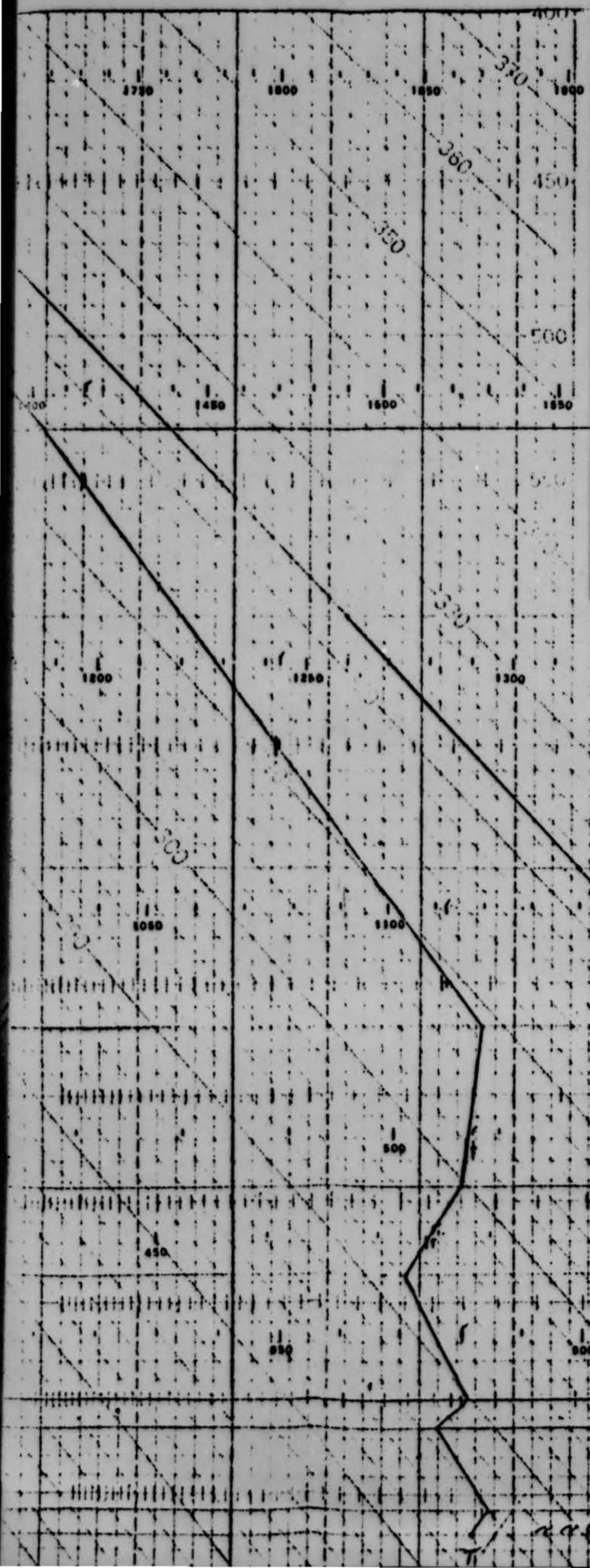
1. Reference: Ltr 9 July 68, request for Weather Data.
2. We are shipping this date the following climatological data for 28 Dec 53:
 - a. Copies of WB Form 1130A for 23201 Chico Calif Mun Apt and for 93505 Marysville Calif SAWRS Apt
 - b. Copies of both WBAN Form 10A and WBAN Form 10B for 23206 Sacramento 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

5 Km.
0° (C.)

4 Km.
10°



Code Check	Level No.	PRESSURE		TEMPERATURE		RELATIVE HUMIDITY		DEW POINT	REMARKS
		Contact or semi- Contact	mb.	Ordnate	Ascent (°C)	Ordnate	% Including Correction of -5% %	°C	
SIGNIFICANT LEVELS									
	1		1021.		12.2°		38.	-12.	0000
11	2	70	1028	27.3	13.6°	290	33.	-2.5.	0012
20	3	120	765.	65.8	10.9°	240	38.	-3.0.	0024
71	4	140	950.	66.7	12.5°	270	32.	-3.8.	0060
42	5	220	826	65.0	9.2°	190	28.	-8.5.	0120
55	6	280	843.	66.8	12.2°	5.0	15.	-13.7.	
66	7	380	769.	67.1	13.3	m3	m3.	m3.	0237
	8	720	532.	53.1	-10.1°	m9	m12.	m9.	0535
	9	92.7	400.	38.5	-27.8°	m8	m8.	m3.	
	10								
	11								
	12								
	13								
	14								
	15								
	16								
	17								
	18								
	19								
	20								

<u>47315.</u>	<u>02112.</u>	<u>51714.</u>	<u>00209.</u>	<u>00059.</u>
<u>13522.</u>	<u>00315.</u>	<u>85504.</u>	<u>11628.</u>	<u>00228.</u>
<u>20035.</u>	<u>07990.</u>	<u>00137.</u>	<u>50902.</u>	<u>6499.</u>
<u>03534.</u>	<u>40446.</u>	<u>79992.</u>	<u>03542.</u>	<u>55555.</u>
<u>11006.</u>	<u>13525.</u>	<u>22905.</u>	<u>12559.</u>	<u>33750.</u>
<u>12536.</u>	<u>40130.</u>	<u>09522.</u>	<u>55843.</u>	<u>12633.</u>
<u>66666.</u>	<u>76913.</u>	<u>12.</u>		
<u> .</u>	<u> .</u>	<u> .</u>	<u> .</u>	<u> .</u>
<u> .</u>	<u> .</u>	<u> .</u>	<u> .</u>	<u> .</u>
<u> .</u>	<u> .</u>	<u> .</u>	<u> .</u>	<u> .</u>
<u> .</u>	<u> .</u>	<u> .</u>	<u> .</u>	<u> .</u>

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 -5%	°C	
SIGNIFICANT LEVELS									
	1		1021.		12.2		38.	-1.2	00006
11	2	70	1028	67.3	13.6	290	33.	-2.5	00120
12	3	120	765	65.8	10.9	270	38.	-3.0	00492
23	4	140	950	66.7	12.5	270	32.	-3.8	00610
44	5	220	826	65.0	9.2	190	28.	-8.5	01200
55	6	280	843	66.5	12.2	5.0	15.	-11.7	
66	7	380	769	67.1	13.3	m13	m0.	m3.	02342
	8	720	532	53.1	-10.1	m9	m13.	m7.	05350
	9	92.7	400	38.5	-27.2	m0	m0.	m3	
	10								
	11								
	12								
	13								
	14								
	15								
	16								
	17								
	18								
	19								
	20								

CODED MESSAGE FOR TRANSMISSION

47315.	02112.	51714.	00209.	00069.
13522.	00315.	85504.	11628.	00228.
20035.	07990.	00137.	50928.	64995.
03534.	40046.	79792.	03542.	55555.
11021.	13525.	22965.	12587.	33750.
12536.	40150.	09522.	55845.	12633.
66666.	76913.	12.		

CONSTANT PRESSURE DATA

00406	7454	-29.8
71001	(20)	2.17
01542	15	2.25

6600	-219
(18)	X
15	020

80708	5x14	-145
64975	(16)	m 3
01534	16	208

5090	-081
(15)	X
16	017

4399	-029
(14)	XXXX
16	018

3770	002.2
(14)	X
16	02/

70035	3155'	0270
07995	(13)	M13
00137	16	020

3600	0.16
(12)	0.16
16	0.15

2002	012.9
(12)	X
11	11

11624	1535	0117
11628	17	-126
00228	01	014

106'	10.0
22'	10.0
01	015

0613	0.2.5
72.	
01	0.2

00254	0.11.	0.11.
12522	34.	-2.5
03385	31.	2.2

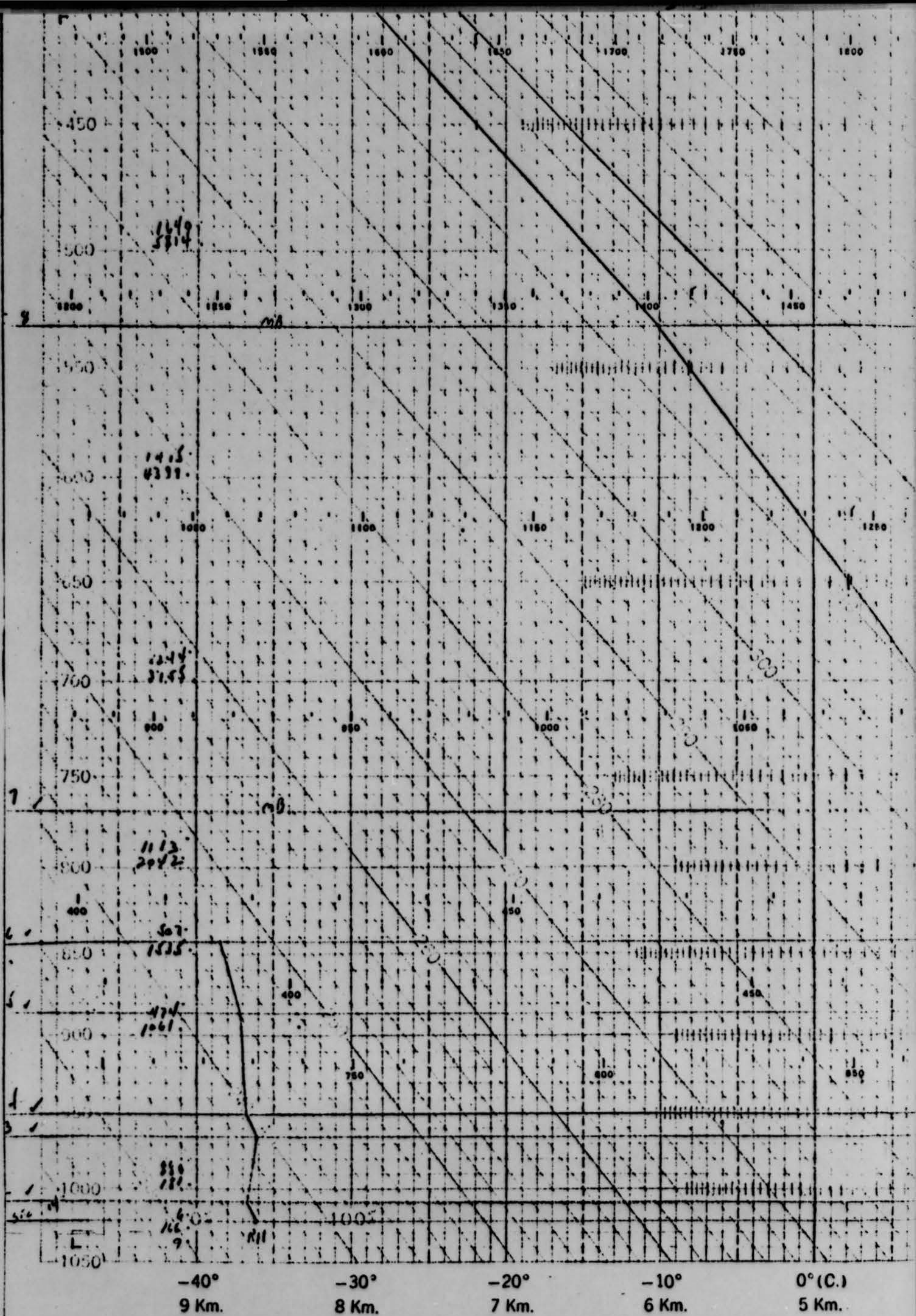
23/12	Picture	23/12
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PUNCHED CARD NO. 4

PUNCHED CARD NO. 3

PUNCHED CARD No. 2

PUNCHED CARD NO. 1

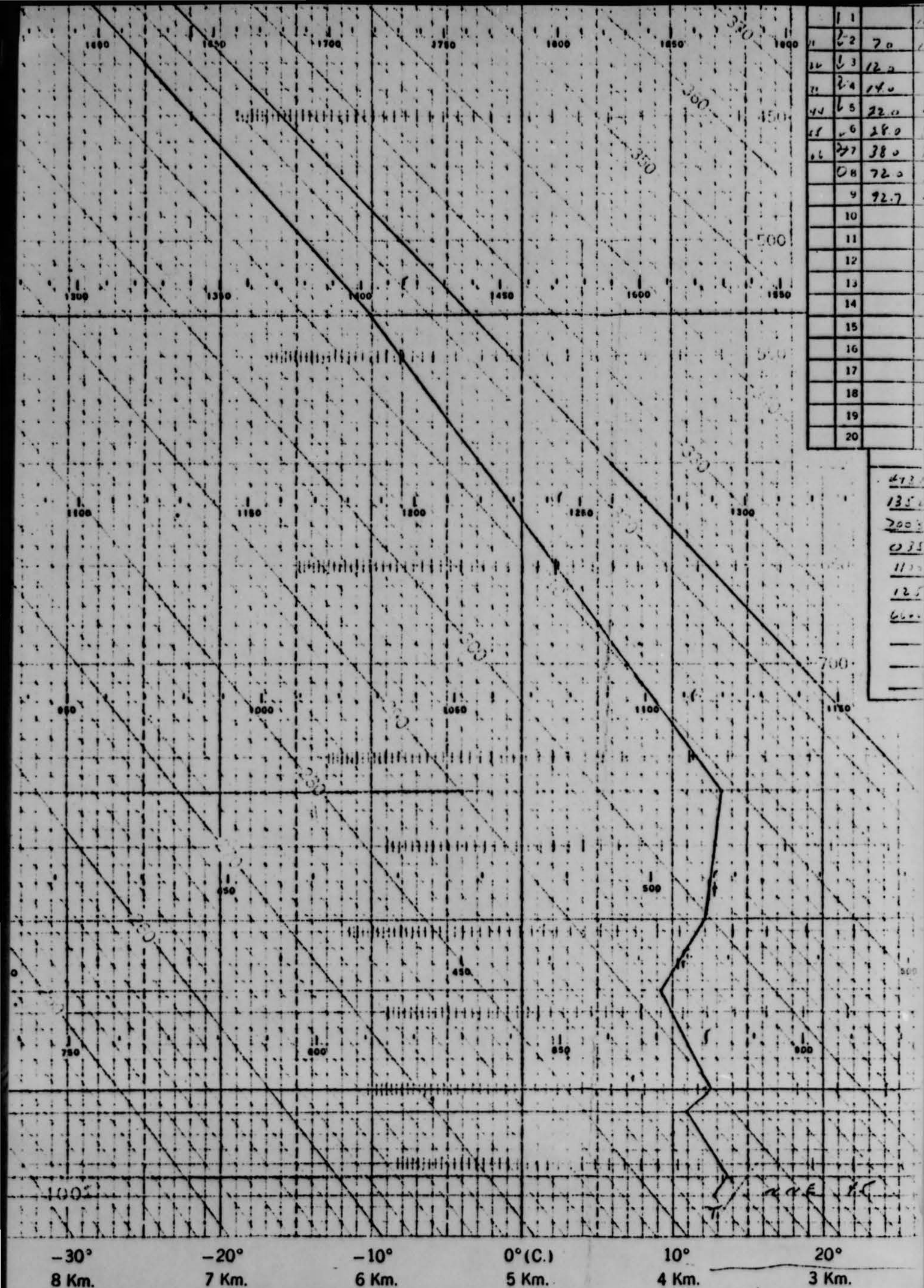


Oakland Airport,	
Oakland, Calif	
Lat <u>37° 46' N.</u>	Long <u>122° 29' W</u>

DATA AS TRANSMITTED	O. P. TO 0.1°C. OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
Q0000	M (gpm)	T
TTT ₀ T ₀	RH	O.P.
Q000	O (16 pts.)	Wind S (m.p.s.)

A-10

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



DATA AS TRANSMITTED	O. P. TO 0.1°C. OTHER DATA AS ENTERED ON WBAN-23 OR PUNCHED CARD	
0000	M (gpm)	T
TTT ₀ T ₀	RH	O.P.
0000	Wind S (10 pts.)	S (m.p.s.)

A-10

PM - Pressure-height

T - Temperature °C

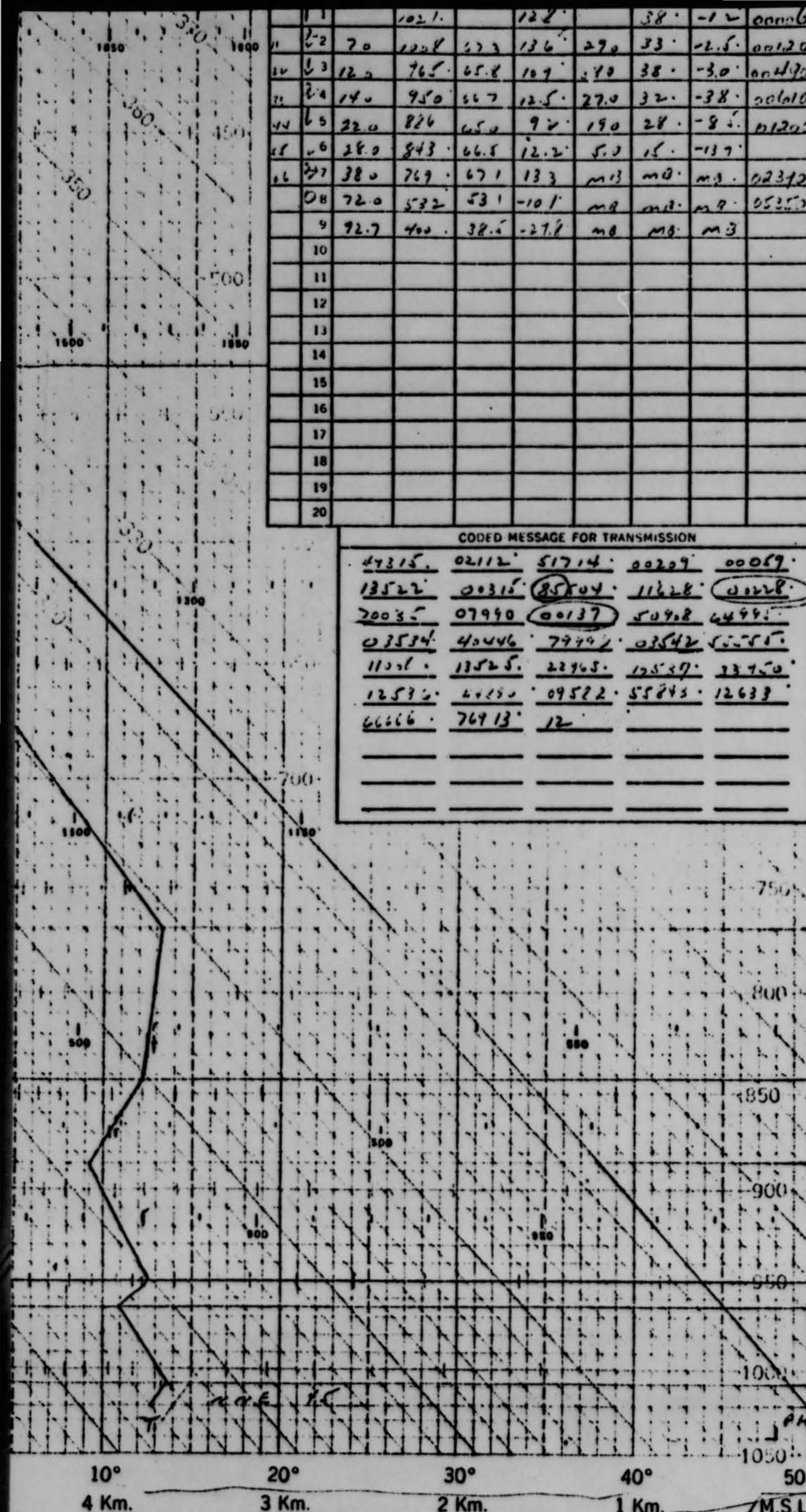
RH - Relative Humidity

Height scale in geopotential meters

Drawn by mpis: Des

Verified by E. m. V.

Inspected by _____



1	102.1	12.2	38	-1.2	00006
2	70	122.8	27.3	13.6	290 33 -2.5 00120
3	12.2	76.5	65.8	10.9	240 38 -3.0 00470
4	14.0	95.0	56.7	12.5	27.0 32 -3.8 00610
5	22.0	82.6	65.0	9.2	190 28 -8.5 01200
6	28.0	84.3	66.5	12.2	5.0 15 -13.7
7	38.0	76.9	67.1	13.3	m13 m0 m3 02372
8	72.0	53.2	53.1	-10.1	m9 m12 m9 05350
9	92.7	400	38.5	-27.8	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
70035	07990	00137	50908	64991
03534	40446	79997	03542	55555
11001	13525	22965	12537	33950
12595	40150	09522	55843	12633
66666	76913	12		

6600	-21.9
(18)	
15	02.0

60708	52.4	-1.45
64995	(16)	m0
01534	16	018

5070	-08.1
(15)	
16	017

4399	-02.9
(14)	
16	018

3770	002.2
(14)	
16	021

70035	3155	007.0
07990	(13)	m0
00137	16	020

3600	011.6
(12)	
16	015

2042	012.9
(13)	
16	015

0504	0535	011.7
11628	17	-12.6
00228	01	014

1061	110.0
29	
01	015

0610	012.5
32	
01	012

0059	0101	0131
18522	34	-2.5
0385	01	008

02112	Pressure	0.2.5
51714	38	-1.2
00209	01	005

Drawn by MPC: Dey: 24
 Verified by E. M. VOEST
 Inspected by _____

DATE AND RELEASE TIME				
	Year	Month	Day	Time
120	th. Mar	1953	Feb	28 0700
GCT	1953	APR	28	1500
Radiation No		352.727		
		Ascension No 723		

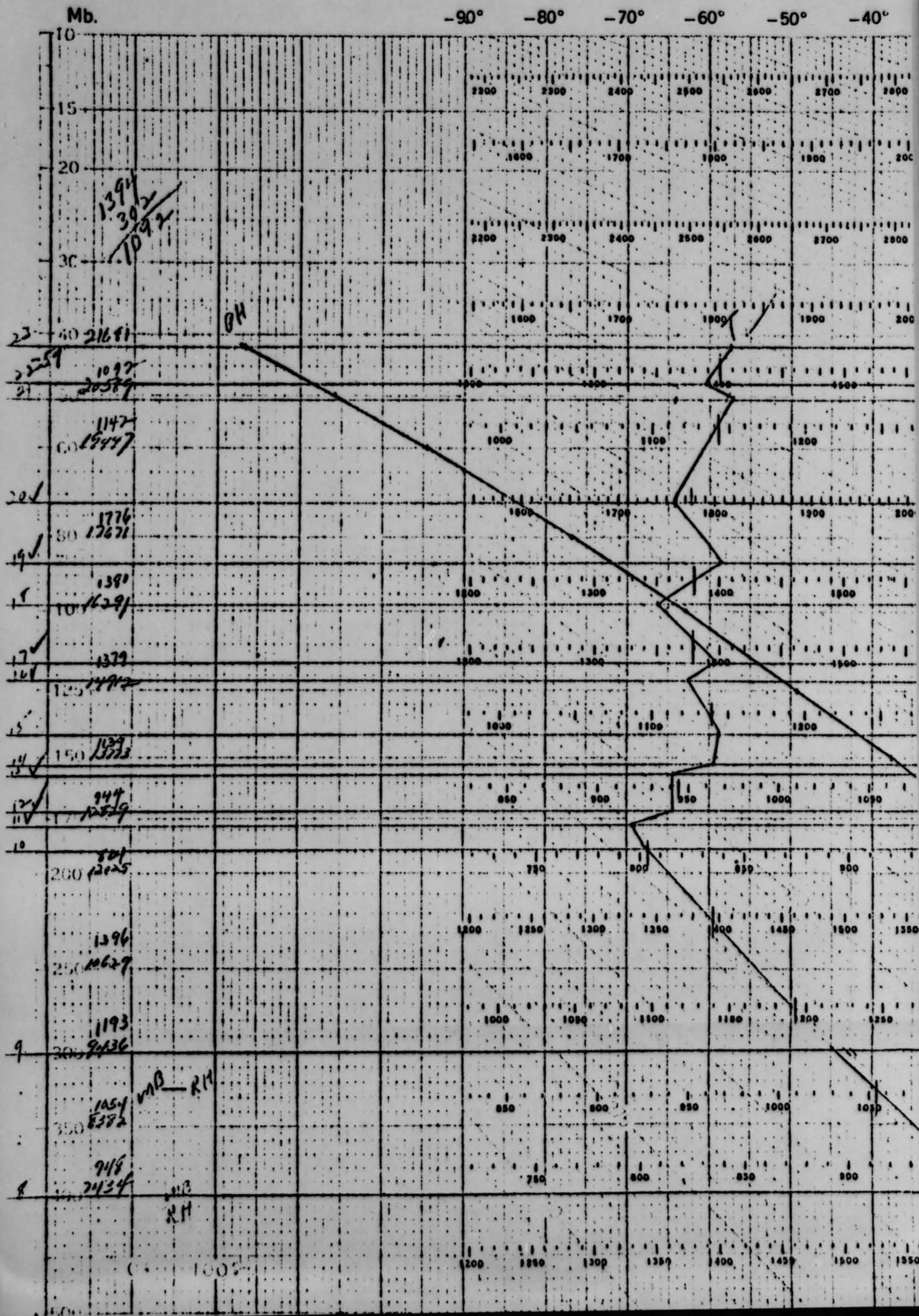
PUNCHED CARD No. 1

PUNCHED CARD No. 2

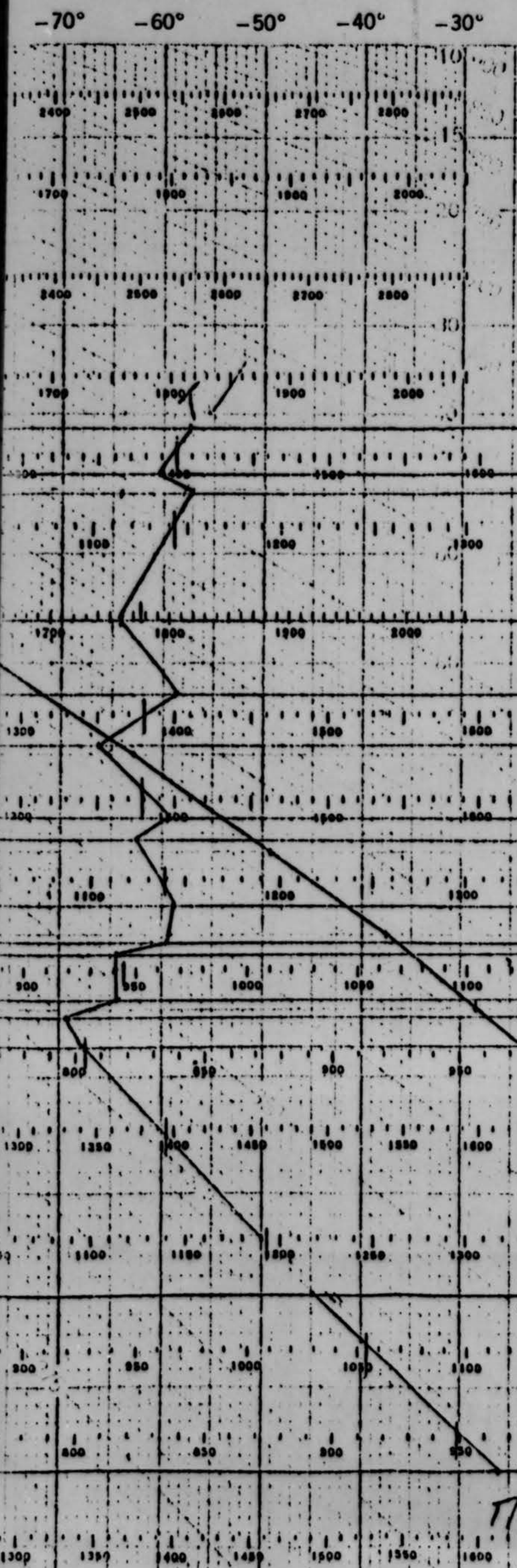
PUNCHED CARD No. 3

ADIABATIC CHART

WBAN-31B



U.S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
THERMOPHASE CHART
WBAN-31B



DATA BLOCK B

Code Check

Level No.

PRESSURE

Contactmb.

TEMPERATURE

Ordinate

Ascent (°C)

Correction

Corrected

RELATIVE HUMIDITY

Ordinate

Including Correction of %

DO EX

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	-64.2					
14	131.0	153	17.3	-59.6					
15	133.0	141	17.8	-58.5					
66	135.9	122	15.7	-61.4					
77	137.1	116	12.3	-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	-60.5					
02	149.1	42	18.6	-57.4					

CODED MESSAGE FOR TRANSMISSION

49353	30096	94998	20945
15519	09992	10345	15994
07995	11166	17919	17214
12212	11610	08709	07214

SOLAR RADIATION CHART

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 (1) and solar noon.
5. Elevation angle of sun
6. Elapsed time from 200 mb. to terminating level
7. Ascensional rate

P/H

-30^u

CONSTANT PRESSURE DATA

0755	0.589	-57.5
07995	X	X

9447	-608

7671	-668

<u>49353</u>	<u>30096</u>	<u>94998</u>	<u>20945</u>	<u>14999</u>
<u>15519</u>	<u>09992</u>	<u>10345</u>	<u>15994</u>	<u>05755</u>
<u>07995</u>	<u>11666</u>	<u>17819</u>	<u>17214</u>	<u>15914</u>
<u>122-12</u>	<u>11610</u>	<u>08709</u>	<u>07214</u>	

1034.5	6291	-63.4
1034.5		
0		

4912	-669

115183773-592		
	X	X
0		

2829	-67.3

20745	2025	-649
1444.9	001	...
0		

0129	-542
m	

20096	Gift 26	100-5
Gift 698	on	100
0		

7.5	2.15
(2)	

1. Time, LST, at 200 mb. or at termination, if between 400 mb. and 200 mb.

2. Correction for TST.

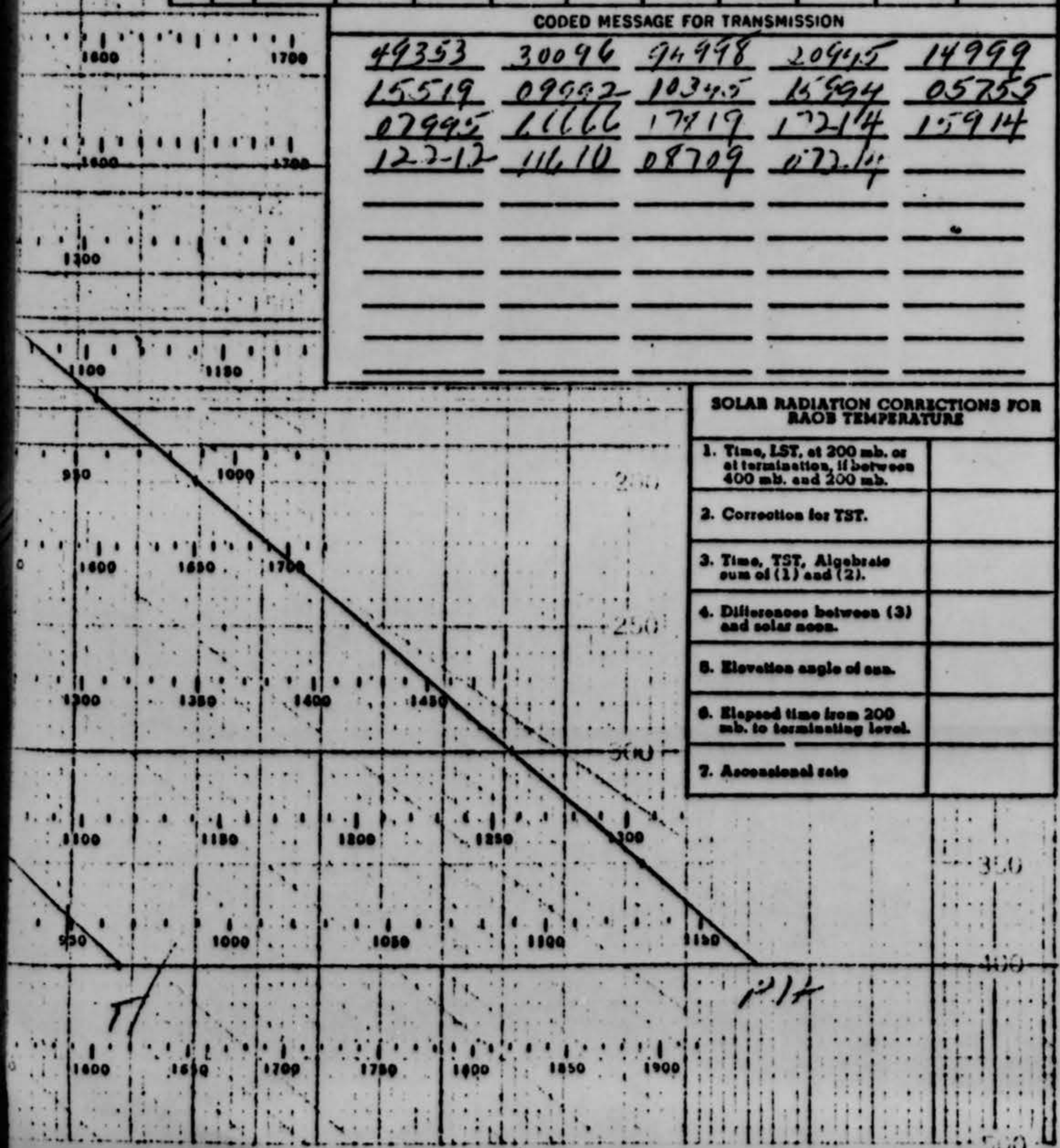
3. Time, TST, Algebra
sum of (1) and (2).

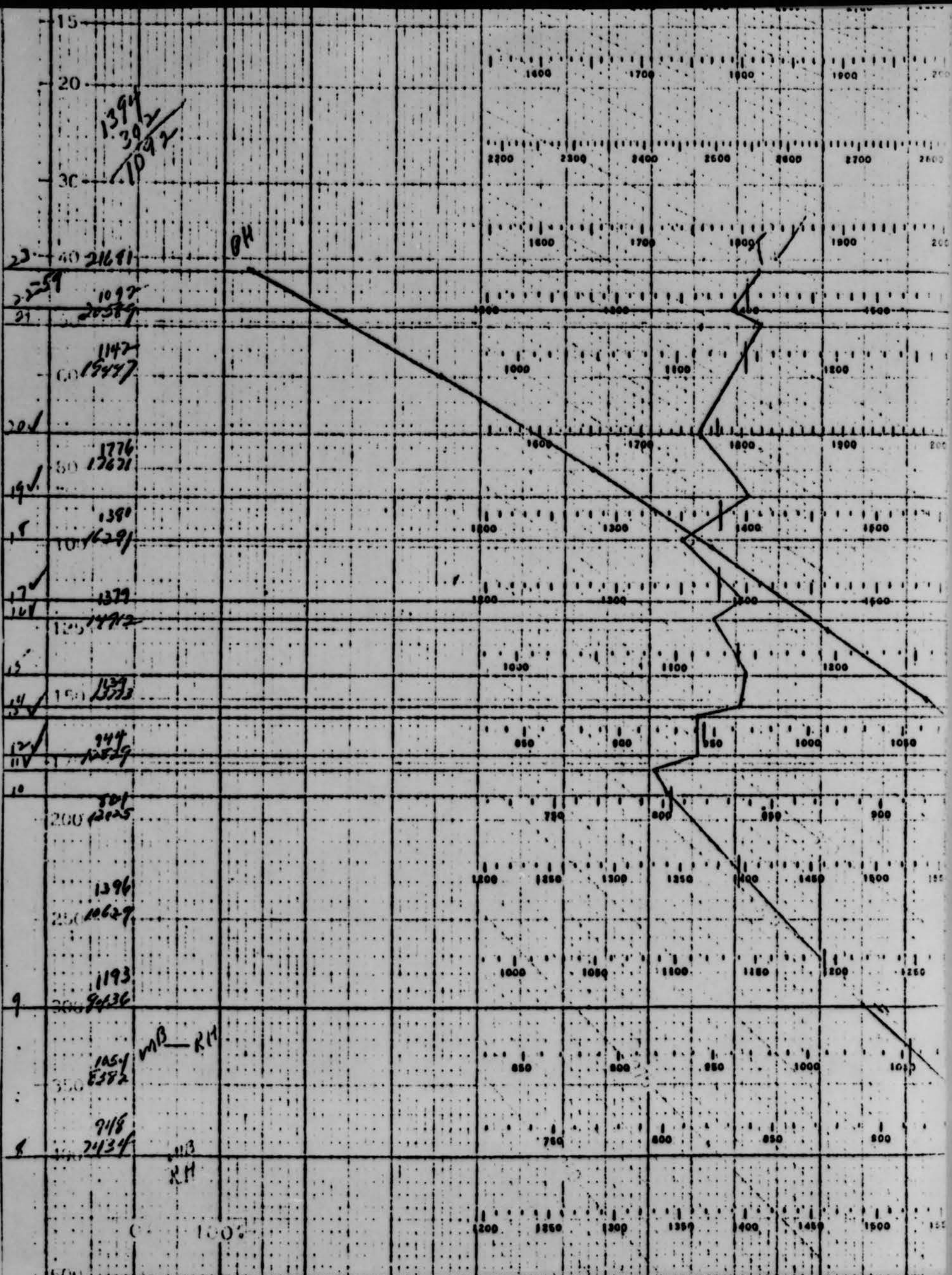
4. Differences between (3) and solar noon.

5. Elevation angle of sun.

6. Elapsed time from 200 mb. to terminating level.

7. Accrual rate





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

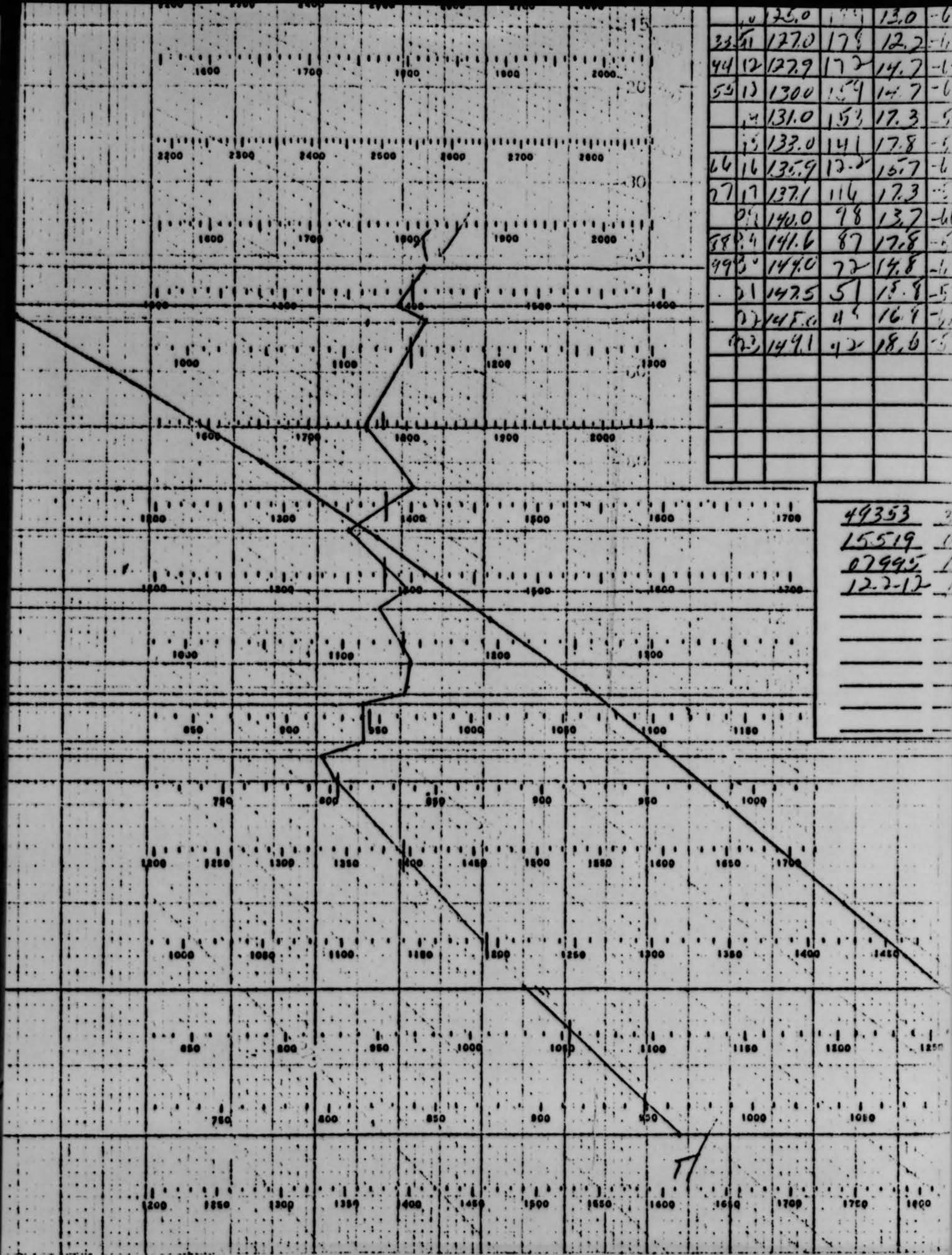
Station Oakland Airport,	
Oakland, Calif	
Lat. 37° 44' N.	Long 122° 12' W.

DATA AS TRANSMITTED	D. P. TO 0.1°C OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
00bbb	M (gpm)	T
TTT ₀ T ₂ T ₈	°RH	°D.P.
00000	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.



10	125.0	17	12.0	-6
33	127.0	17	12.2	-6
44	127.9	17	14.7	-6
55	130.0	15	14.7	-6
66	131.0	15	17.3	-6
77	133.0	14	17.8	-6
88	135.9	12	15.7	-6
99	137.1	11	17.3	-6
100	140.0	9	13.7	-6
101	141.6	8	17.8	-6
102	144.0	7	14.8	-6
103	147.5	5	15.8	-6
104	145.0	4	16.8	-6
105	149.1	2	18.6	-6

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
TTC ₁ T ₂ T ₃	°RH	°D.P.
044H	D (16 pts.)	Wing S (m.p.s.)

*Omitted above 200 mbs.

A-9

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

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

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	127.0	178	12.2	-1.9	1272.0
44	127.9	172	14.7	-6.1	
55	130.0	159	14.7	-6.1	
	131.0	153	17.3	-5.6	
	133.0	141	17.8	-5.8	14150
66	135.9	122	15.7	-6.1	
77	137.1	116	17.3	-5.6	
	140.0	98	13.7	-6.2	16410
88	141.6	87	17.8	-5.8	17:50
99	144.0	72	14.8	-1.1	18:40
	147.5	51	18.8	-5.7	
	148.0	45	16.9	-1.5	
	149.1	42	18.6	-5.7	1681

CODED MESSAGE FOR TRANSMISSION

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

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. Differences between (3) and solar noon.
5. Elevation angle of sun.
6. Elapsed time from 200 mb. to terminating level.
7. Ascensional rate

0755 0589 -57.5
 07995

9447 -608

7671 -608

10345 6291 -65.4
 15994

4912 -619

15519 3773 -53.2
 07995

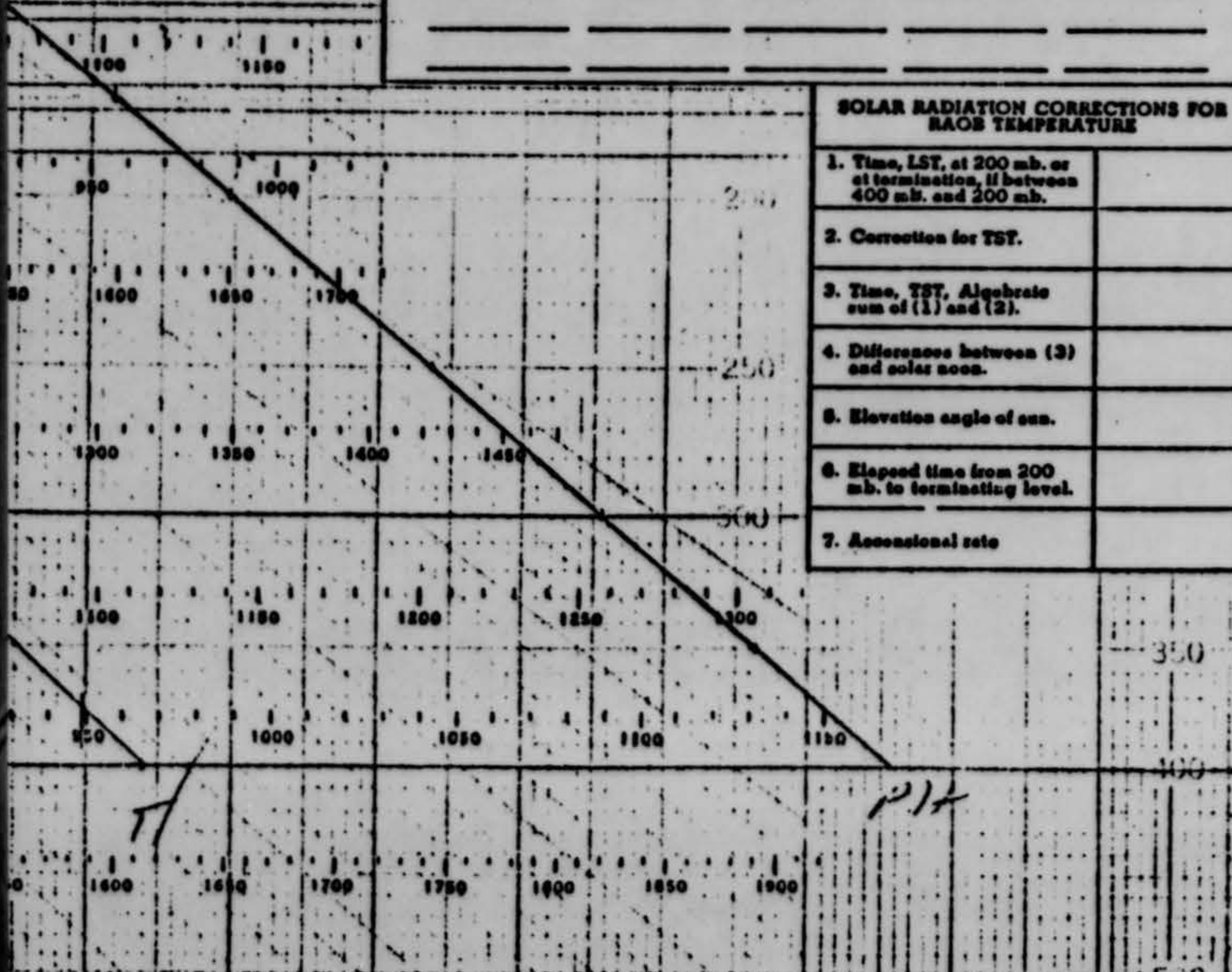
2829 -67.2

20945 2025 -64.9
 14999

0529 -51.2

20996 9426 -5.5
 07995

12312 -5.7



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

DATE AND RELEASE TIME

	Year	Month	Day	Time
120 th Mar	1953	DEC	28	0300
G.C.T.	1953	DEC	28	0300
Radioonde No.	114675			Ascension No. 722

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

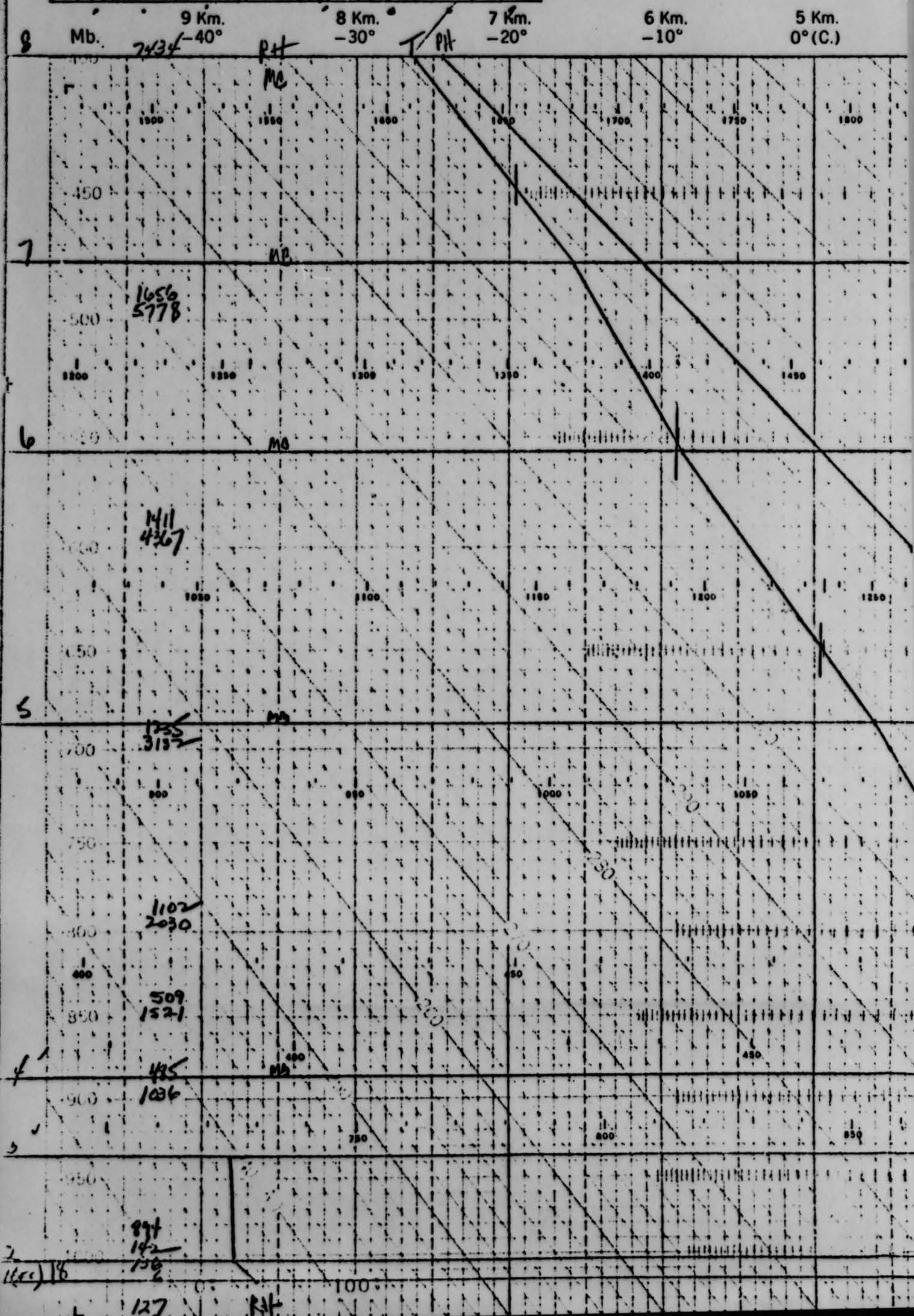
BASELINE CHECK READINGS

U. S. DEPARTMENT OF COMMERCE, WEA

ADIABATIC CHART

WBAN-31A

Time G.C.T.	TEMPERATURE			RELATIVE HUMIDITY			
	Ordinate	Dry	Wet	Ordinate	Raob	Cor.	Psychrometer
0233	71.0	21.7	18.0 °C	79.3	1.8	2.2	Water 70



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	00000
	12	80	1003	693	180	80	21	-4.7	00150
11	13	16.0	935	679	150	5.0	19	-8.5	00700
22	14	22.0	886	690	173	ME	ME	ME	01180
	15	48.0	686	620	40	ME	ME	ME	
	16	67.0	556	540	-86	ME	ME	ME	
	17	79.0	477	489	-159	ME	ME	ME	
	18	90.8	400	41.3	-261	ME	ME	ME	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

404

767

0

60

63

0

71

81

0

15

17

17

17

17

17

DATA BLOCK A

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		11.1		35	0.4	00000
	2	80	1003	693	180	80	21	-4.7	00130
11	3	160	935	679	150	5.0	19	-8.5	00720
22	4	22.0	886	670	173	MB	MB	MB	01120
	5	480	686	620	40	MB	MB	MB	
	6	670	556	540	-86	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								

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

CONSTANT PRESSURE DATA

40439	7434	-26.1
76711	(19)	MB
0		

6580	-19.4
(17)	

80896	5778	-13.8
63998	(16)	MB
0		

5030	-09.1
(15)	

4367	-04.2
(14)	

3720	000.6
(14)	

70028	102	005.0
05990	(13)	MB
0014	02	02

2590	008.5
(13)	
0.2	0.32

2030	012.0
(12)	
0.2	0.37

4499	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	0142	017.9
17558	20	-5.5
0041	15	0.19

01616	1016	016.1
-------	------	-------

PUNCHED CARD No. 4

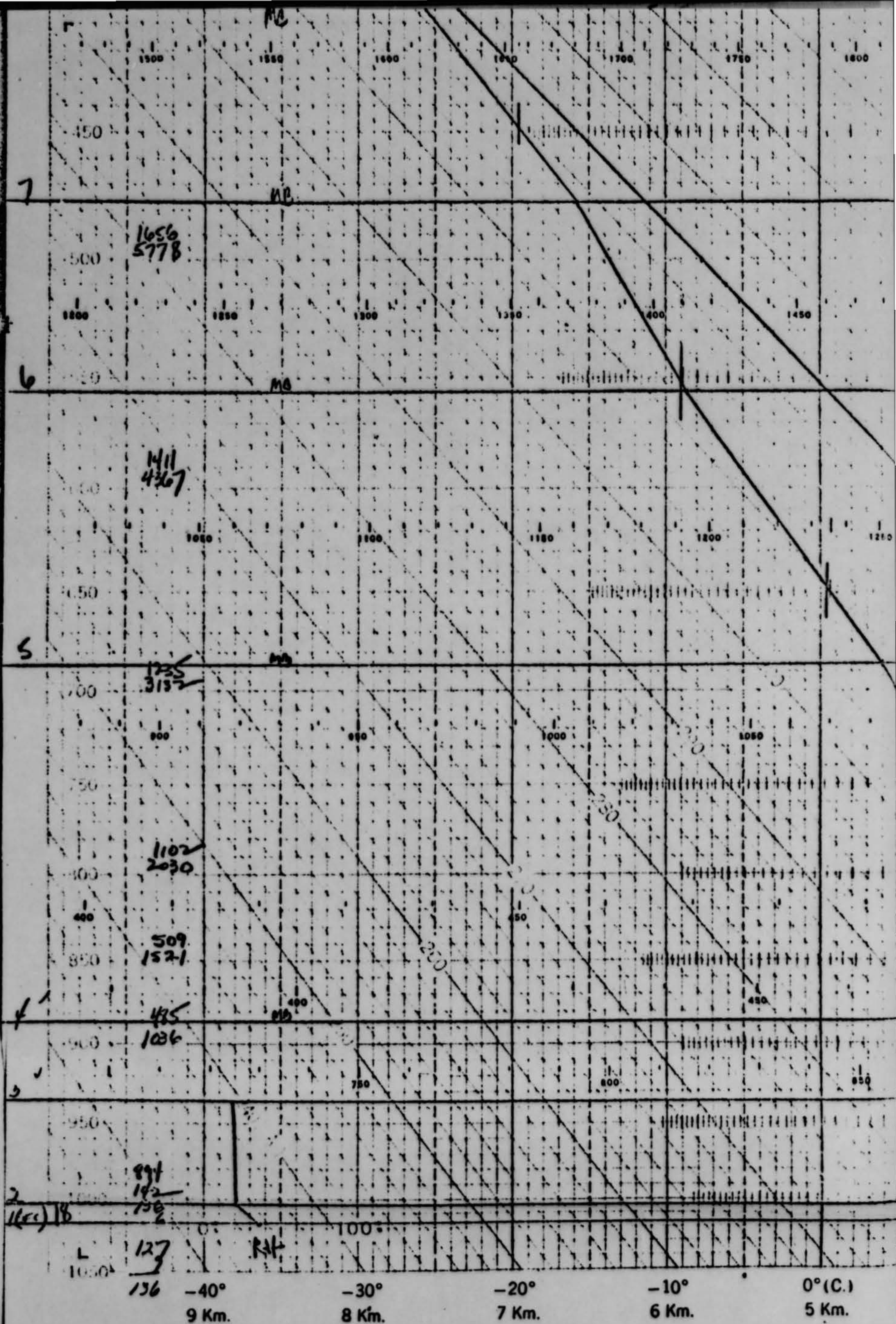
PUNCHED CARD No. 3

PUNCHED CARD No. 2

PUNCHED CARD No. 1

NW 40 mps

PH



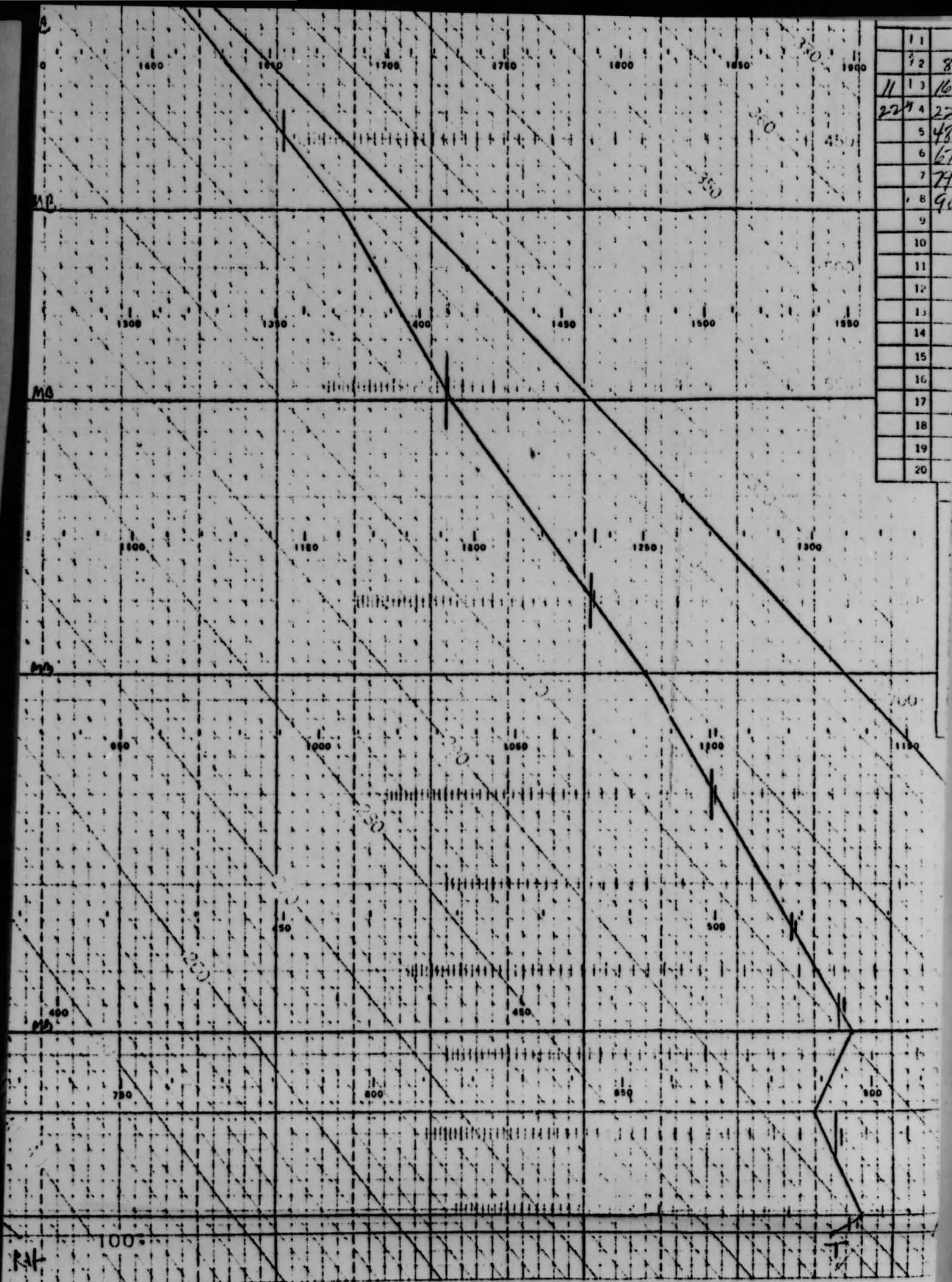
Oakland Airport,	
Oakland, Calif	
Lat. 37° 44' N.	Long 122° 12' W.

DATA AS TRANSMITTED	D. P. TO 0.1°C. OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
Q0445	M (g/m)	T
VT16T4T6	RH	D.P.
Q44H	D (16 pts.)	Wind S (m.p.s.)

A-8

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

1	1	
2	2	80
3	3	160
4	4	220
5	5	480
6	6	670
7	7	770
8	8	900
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		



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

Airport,
 Land, Cam
 122° 12' W.

DATA AS TRANSMITTED	D. P. TO 0.1°C. OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
00000	H (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 *Ket*
 Verified by *K*
 Inspected by

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

WSAN 10 A

SURFACE WEATHER OBSERVATIONS

STATION WBAS, Blue 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		1021	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	
0-00	30		176	55	31	↙	12		014	SMKY SW	PBN
0-00	30		180	50	29	↙	6		014	SMKY SW	PBN
0-00	30		180	48	31	↓	8		013	SMKY SW 607 0467 60 24979	PBN
0-00	30		183	47	29	↙	7		013		PBN
0-00	15+		176	48	11	↙	9		013		PBN
0-00	15+		183	47	11	→	6		012	603 0019 24966	PBN
0	15+		176	46	15	↓	6		012		PBN
0	15+		169	44	15	↓	7		012		PBN

SURFACE WEATHER OBSERVATIONS

STATION WBAS, Blue Canyon, Calif.DATE DEC 28 19

TIME (LST)	STATION PRESSURE (ins.)	DRY BULB (°F)	WET BULB (°F)	REL HUMIDITY (%)	TOTAL SKY COVER	CLOUDS AND OBSCURING PHENOMENA													
						LOWEST LAYER			SECOND LAYER			SUMMA- TION TOTAL	THIRD LAYER			SUMMA- TION TOTAL	FOURTH LAYER		
						AMT.	TYPE & DIR	HEIGHT	AMT.	TYPE & DIR	HEIGHT		AMT.	TYPE & DIR	HEIGHT		AMT.	TYPE & DIR	HEIGHT
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
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	SEA STATE & DIR.	SWELL HGT. & DIR.	SWELL PERIOD	SURF H ₂ O M ₂ O D ₂ O	WATER TEMP	SOIL TEMP				
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	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)

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			THICK- NESS OF ICE ON WA- TER (ins.)	FROZEN GRND LAYER (ins.)		RIVER GAGE								
66	67	68	69	70	SPEED (mph)	DIREC- TION	TIME (LST)	74	TOP	BASE	77	78	79	80	81				
60	38	0	0	0															

REMARKS, NOTES AND MISCELLANEOUS PHENOMENA

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

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	DIRECTION OF WIND	SPEED OF WIND	WAVE HEIGHT	SEA STATE		
			LOWEST LAYER			SECOND LAYER			SUMMA- TION TOTAL	THIRD LAYER			SUMMA- TION TOTAL	FOURTH LAYER								
			AMT.	TYPE & DIR	HEIGHT	AMT.	TYPE & DIR	HEIGHT		AMT.	TYPE & DIR	HEIGHT		AMT.							TYPE & DIR	HEIGHT
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
																	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					0			
40.0	43	7	0	K	-	0	ac	130	0	7	ci	220	7	0					0			
39.9	51	9	0	K	-	0	ac	130	0	9	ci	320	9	0			6	020	0			
38.8	46	8	0	ac	130	8	ci	220	8	0			8	0					0			
34.6	21	5	0	ac	130	5	ci	220	5	0			5	0					0			
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			9	015	0			

SYNOPTIC OBSERVATIONS

SNOW FALL (ins)	SNOW DEPTH (ins)	MAX TEMP (°F)	MIN. TEMP (°F)	HGT. 950 MB. SURFACE	STATE OF GRND	SEA STATE & DIR.	SWELL HGT. & DIR.	SWELL PERIOD	SURF H _s H _m H _l M _s P _s D _s	WATER TEMP	SOIL TEMP			STATION PRESSURE COMPUTATIONS			
														TIME (LST)			
0	0	44	42											59	1025	1625	2200
0	0	44	41	5030	1									60	75.0	72.0	74.0
0	0	54	38	5070	1									61	25.027	24.923	24.912
0	0	60	47	4970	1									62	7.120	- .113	- .118
0	0	49	43	4950	1									63	24.909	24.820	24.774
0	0	46	42											64	24.870	24.875	24.810
0	0	46	42											65	7.015	7.010	7.005

SUMMARY OF DAY (MIDNIGHT TO MIDNIGHT)

4 - HR SNOWFALL W/LTD. (ins)	PEAK GUST				THICK- NESS OF ICE ON WA- TER (ins)	FROZEN GRND LAYER (ins)		RIVER GAGE						THORSTM 02	BEGAN 03	ENDED 04	DUR. 05		TO VIS 06	BEGAN 07	ENDED 08	DUR. 09	
	SNOW DEPTH (ins)	SPEED (mph)	DIREC- TION	TIME (LST)		TOP	BASE										hrs	mins				hrs	mins
09	70	71	72	73	74	75	76	77	78	79	80	81											
0	0							1															

REMARKS, NOTES AND MISCELLANEOUS PHENOMENA

SUNSET.....

A-14

SURFACE WEATHER OBSERVATIONS

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 DIRECTION	SPEED (mph)	CHARACTER AND SHIFTS	ALTIMETER SET (ins)	REMARKS AND SUPPLEMENT
R	0445		0	15+			46	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	1335	300-0		7			61	38	↑	5E		E011	
R	1425	200-0 300-0		8			62	37	↑	6E		E010	
R	1540	250-0		8			58	38	N	4E		E010	
R	1630	300-0 400-0		6	HK		55	38	←	7E		E008	BINDUC
R	1740	300-0 400-0		4	HK		52	36	←	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	0930	300-0		70			42	32	↓	5E		E015	
R	1030	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		E038	
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	↓	15E		E033	
R	1329		0	15			58	36	↓	16E		E032	
R	1444		0	15			M	M	↓	15E		E030	
R	1546		0	15			60	37	↓	15E		E030	
R	1628		0	15+			59	37	↓	15E		E031	
R	1745		0	15+			49	37	↓	12E		E032	
R	1845		0	15+			48	38	↓	13E		E032	
R	1929		0	15			46	38	↓	13E		E032	

SURFACE WEATHER OBSERVATIONS

STATION CHICO CHIC DATE 12/28/53

SKY 1	VISIB- ILITY (Miles) 2	WEATHER and OBSTRUCTIONS TO VISION 3	SEA LEVEL PRESS. (mb.) 7	TEMP (°F) 8	DEW PT. (°F) 9	WIND			ALTIM- ETER SET (ins) 13	REMARKS AND SUPPLEMENTAL CODED DATA 14	OBSER- VER INITIALS 15	
						DIREC- TION 10	SPEED (mph) 11	CHARAC- TER AND SHIFTS 12				
0	15+			46	29		C		E020		0400130	FM
0	15+			39	29		C		E020		0528134	FM
0	55			36	27		C		E020		0736132.5	AT
0	70			37	26		KGE		E021		0837.0132	AT
0	15+			45	32		KSE		E022		0945.0139.3	AT
0	10			49	33		KSE		E022		0149.042.0	AT
0	6 HK			54	35		KSE		E021		0543145.0	AT
0	7			M	M		KGE		E016		0111M	AT
0	7			58	34		KSE		E013		0584471	AT
0	7			61	38		↑SE		E011		3161.0472	AT
0	8			62	37		↑KGE		E010		7162.0496	AT
0	8			58	38		KSE		E010		10582482	FM
0	6 HK			55	38		←K7E		E008	BWDVC	10550468	FM
0	4 HK			52	36		←K7E		E009		9519444	FM
0	6 HK			48	36		←SE		E008		7440427	FM
0	10			47	37		←SE		E009		5471426	FM
12/29/53												
0	10			36	32		C		E011	THN PATCHES 6F SE	036132	FM
0	15+			37	32		↓SE		E012		01371350	FM
0	70			38	30		↓SE		E013		02381350	FM
0	70			42	32		↓SE		E015		1424382	FM
0	70			50	32		↓SE		E014		1501422	FM
0	70			M	M		↓SE	10E	E011		60911	FM
0	70			61	39		↓SE	15E	E009		4160449	FM
0	70			64	33		↓SE	17E	E007		21634493	FM
0	70			62	36		↓SE	17E	E007		01633501	FM
0	70			60	38		↓SE	15E	E007		01602497	AT
0	70			60	31		↓SE	12E	E007		01585406	AT
0	15+			54	34		↓SE	7E	E008		01512435	AT
0	15+			49	34		↑SE	6E	E011		01401424	AT
0	15+			49	36		↑SE	8E	E013		0149.0430	AT
12/30/53												
0	10			36	32		↓SE	2E	E038		013601345	FM
0	8			35	30		↓SE	7E	E037		0252330	FM
0	6 HK			39	32		↓SE	7E	E033		013891360	FM
0	5 HK			46	35		↓SE	7E	E038		0463411	FM
0	10			50	35		↓SE	5E	E036		0502433	FM
0	15			55	35		↓SE	5E	E033		0549457	FM
0	15			58	36		↓SE	6E	E032		0575470	FM
0	15			M	M		↓SE	5E	E030		0147131	FM
0	15			60	37		↓SE	5E	E030		0160488	FM
0	15+			59	37		C		E031		01591489	FM
0	15+			49	37		↓SE	2E	E032		02490483	FM
0	15+			42	38		C		E032		0480433	FM
0	15			46	38		↓SE	5E	E032		04631424	FM