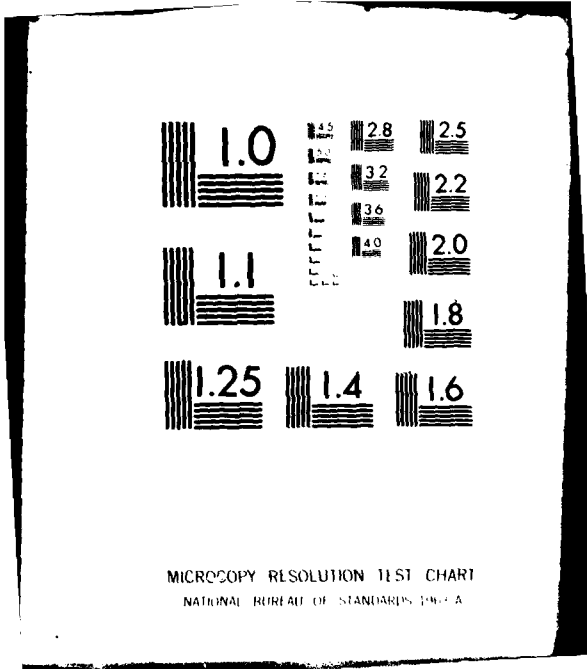


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FEBRUARY 1980

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METEOROLOGICAL DATA REPORT

19703B MLRS
Missile Numbers 34, 37
Round Numbers B-88, B-89
12 February 1980

by

White Sands Meteorological Team

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4. TITLE (and Subtitle) 19703B MLRS Missile Number 34, 37, Round Numbers B-88, B-89. 12 February 1980	5. TYPE OF REPORT & PERIOD COVERED 9) Meteorological data rept.	6. PERFORMING ORG. REPORT NUMBER
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 19703B MLRS, Missile Numbers 34, 37, and Round Numbers B-88, B-89 are presented in tabular form.		

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INTRODUCTION

19703B MLRS, Missile Numbers 34, 37, Round Numbers B-88, B-89,
were launched from LC-39, White Sands Missile Range (WSMR),
New Mexico, at 1625:07 & 1741:19 MST, 12 February 1980.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{F}$), relative humidity, dew point ($^{\circ}\text{F}$), wind direction and speed, and cloud cover were made at the "C" Station Met Site.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE

LC-39 2 Km

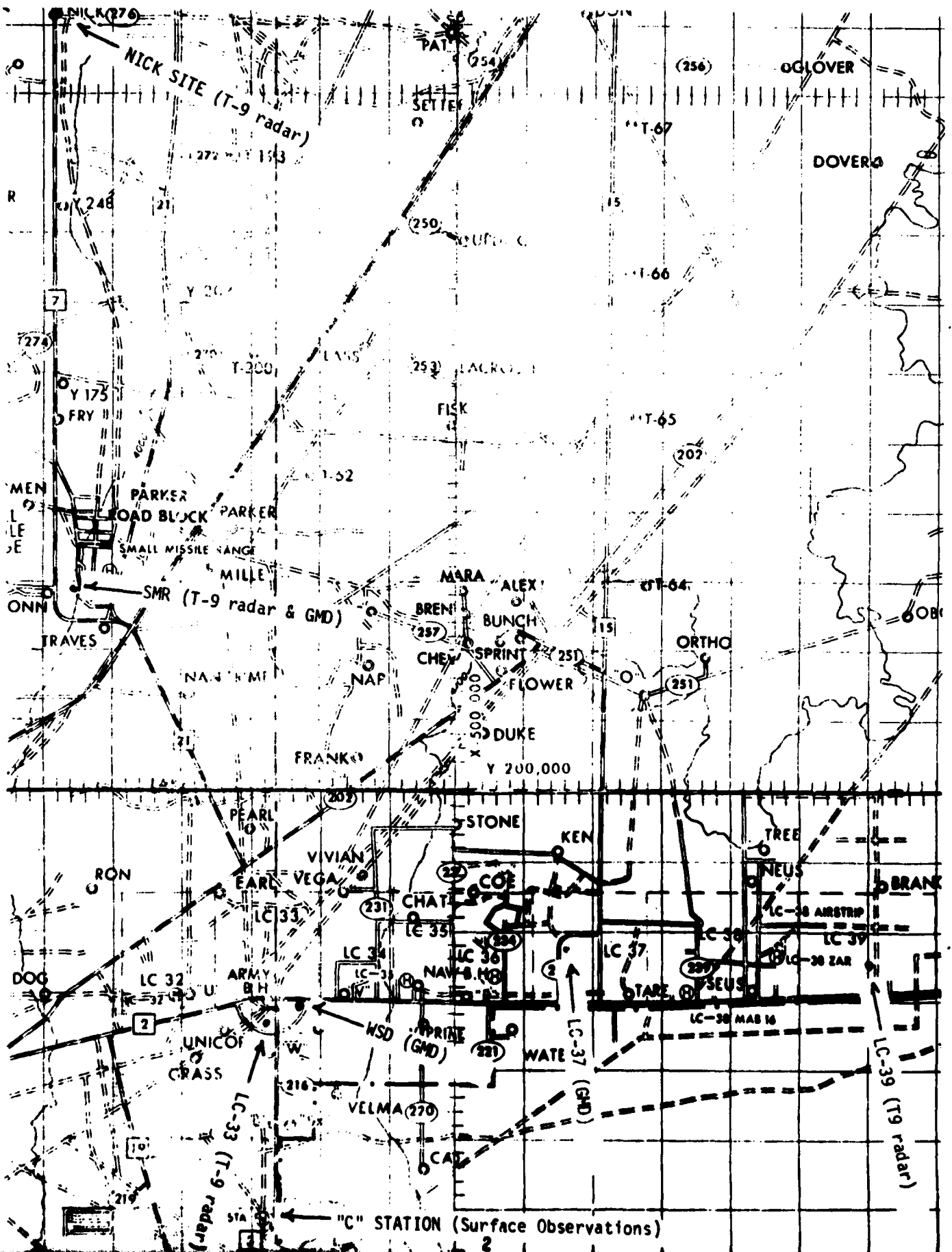
SMR 2 Km

(2) Air structure data (rawinsonde) were collected at the following Met Sites.

SITE AND TIME

WSD 1600 MST

LC-37 1715 MST



"C" STATION (Surface Observations)

TABLE 1

SURFACE OBSERVATIONS OBTAINED FROM "C" STATION ON 12 February 1980

TIME MST	SKY CONDITIONS	WIND VELOCITY	WIND DIRECTION TO VELOCITY	TEMPERATURE IN DEGREES FAHRENHEIT	RELATIVE HUMIDITY PERCENT	WIND SPEED IN MPH	WIND DIRECTION TO VELOCITY	WIND SPEED IN MPH	WIND DIRECTION TO VELOCITY
0058	CLR	20		25.975	28	23	160	02	
0158	CLR	20		25.980	26	24	120	06	
0258	CLR	20		25.970	26	20	300	06	
0358	CLR	20		25.975	24	15	120	05	
0458	CLR	20		25.975	26	18	220	03	
0558	CLR	20		25.975	27	21	280	02	
0658	250-SCT	30		25.990	25	18	130	02	
0758	250-SCT	40		26.015	27	21	360	04	
0858	250-BKN	40		26.030	34	27	360	02	
0958	250-BKN	40		26.030	42	30	030	02	
1058	E250-BKN	40		26.020	47	32	1270	03	
1158	E250-BKN	40		25.990	53	35	180	11	
1258	60SCTE250-BKN	40		25.945	58	30	200	11	
1358	60SCTE250-BKN	40		25.925	54	29	220	11	
1458	60SCTE250 BKN	40		25.910	58	31	210	08	
1558	60SCTE250-BKN	40		25.900	58	31	310	08	
1658	60SCTE250-BKN	40		25.895	56	29	230	10	
1758	60SCTE250-BKN	40		25.900	51	30	220	08	
1858	250SCT	10		25.915	46	29	230	05	
1958	CLR	10		25.930	42	30	170	04	
2058	CLR	10		25.945	40	30	150	04	
2158	CLR	10		25.955	38	29	090	02	
2258	CLR	10		25.950	38	31	E100	06	
2358	CLR	20		25.940	35	31	200	07	

STATION ALTITUDE 3989.00 FEET MSL
 12 FEB. 60 1600 HMS MSI
 ASCENSION NO. /1

SIGNIFICANT LEVEL DATA
 0430020071
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 5

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
877.0	12.8	2.9	51.0
850.0	9.9	-0.9	47.0
770.2	2.2	-5.0	56.0
700.0	-5.0	-7.9	60.0
688.0	-6.2	-8.0	67.0
677.2	-6.2	-15.4	48.0
659.2	-5.0	-19.0	50.0
641.4	-5.4	-20.2	50.0
575.2	-11.3	-24.7	32.0
500.0	-19.6	-31.4	54.0
455.2	-24.4	-36.0	33.0
400.0	-32.3	-40.8	42.0
377.6	-35.8	-43.6	43.0
345.0	-40.5	-45.8	70.0
315.2	-45.1	-49.7	59.0
300.0	-48.0		
269.1	-54.0		
258.1	-54.3		
250.0	-56.1		
242.2	-57.0		
216.4	-53.1		
200.0	-51.7		

STATION ALTITUDE 3989.00 FEET MSL
 12 FEB. 60 1600 HRS MST
 ASCENSION NO. /1

UPPER AIR DATA
 0430020071
 WHITE SANDS

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 6

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARMS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC MLTEX	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA		INDEX OF REFRACTION
							SPEED KNOTS	SPEED KNOTS	
3989.0	877.0	12.8	51.0	1065.0	659.9	.0	.0	1.000272	
4000.0	876.6	12.8	50.9	1064.7	659.8	242.9	.0	1.000272	
4500.0	860.8	11.1	48.6	1052.1	657.7	242.9	1.5	1.000265	
5000.0	845.2	9.5	47.5	1039.2	655.7	242.9	2.9	1.000258	
5500.0	829.6	8.0	49.2	1025.5	654.0	242.9	4.3	1.000254	
6000.0	814.4	6.6	50.9	1011.9	652.3	242.9	5.8	1.000249	
6500.0	799.4	5.1	52.6	998.6	650.8	258.4	4.0	1.000245	
7000.0	784.7	3.7	54.3	985.5	648.8	299.7	2.7	1.000241	
7500.0	770.2	2.2	56.0	972.6	647.1	280.3	2.8	1.000237	
8000.0	755.7	.8	60.8	959.2	645.4	262.6	3.5	1.000234	
8500.0	741.4	-.7	65.6	946.0	643.7	258.7	7.8	1.000230	
9000.0	727.4	-2.1	70.4	933.1	642.0	235.4	10.8	1.000227	
9500.0	713.6	-3.5	75.2	920.4	640.3	240.3	10.8	1.000223	
10000.0	700.1	-5.0	80.0	907.9	638.5	242.7	11.0	1.000220	
10500.0	686.7	-6.2	82.3	894.6	637.1	244.2	11.3	1.000216	
11000.0	673.5	-6.0	44.3	877.2	637.1	244.6	11.5	1.000205	
11500.0	660.5	-5.1	31.4	857.8	638.1	244.4	11.6	1.000198	
12000.0	647.5	-5.3	30.0	841.9	637.9	240.2	11.3	1.000194	
12500.0	635.4	-5.9	30.2	827.6	637.1	248.6	10.8	1.000191	
13000.0	623.0	-6.9	30.5	814.7	635.9	250.1	10.4	1.000187	
13500.0	610.9	-8.0	30.9	802.0	634.6	254.0	10.3	1.000184	
14000.0	599.1	-9.0	31.2	789.6	633.4	260.3	10.9	1.000181	
14500.0	587.5	-23.7	31.6	777.3	632.1	263.3	12.4	1.000178	
15000.0	576.1	-24.5	31.9	765.2	630.9	264.9	14.2	1.000175	
15500.0	564.6	-25.4	32.2	753.5	629.5	265.0	14.9	1.000172	
16000.0	553.4	-26.4	32.5	741.9	628.0	265.7	15.7	1.000169	
16500.0	542.4	-14.7	32.8	730.6	626.5	267.7	16.6	1.000166	
17000.0	531.5	-15.9	33.1	719.5	625.0	267.6	17.7	1.000164	
17500.0	520.9	-17.1	33.4	708.5	623.5	266.1	19.1	1.000161	
18000.0	510.6	-18.3	33.7	697.7	622.0	264.0	20.6	1.000158	
18500.0	500.4	-19.6	34.0	687.1	620.5	263.3	22.3	1.000156	
19000.0	490.2	-20.6	33.8	676.0	619.2	262.8	24.4	1.000153	
19500.0	480.1	-21.7	33.6	664.9	617.9	262.4	26.5	1.000150	
20000.0	470.3	-22.7	33.3	654.1	616.6	263.1	27.1	1.000148	
20500.0	460.7	-23.8	33.1	643.4	615.3	263.6	27.5	1.000145	
21000.0	451.2	-24.9	33.6	633.1	613.8	263.2	27.1	1.000143	
21500.0	441.7	-26.2	35.1	623.1	612.2	262.3	27.1	1.000140	
22000.0	432.5	-27.5	36.6	613.2	610.6	261.5	27.4	1.000138	
22500.0	423.4	-28.8	38.0	603.6	609.0	262.2	27.4	1.000136	
23000.0	414.5	-30.1	39.5	594.1	607.4	263.2	27.4	1.000134	

UPPER AIR DATA
 0430U20071
 WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
 12 FEB 60 1600 HRS MST
 ASCENSION NO. 71

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 6 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
23500.0	405.8	-31.4	41.0	584.7	605.8	265.8	27.4	1.000131
24000.0	397.2	-32.7	42.1	575.5	604.1	264.3	27.2	1.000129
24500.0	388.7	-34.0	42.5	566.2	602.5	264.9	27.0	1.000127
25000.0	380.4	-35.4	42.9	557.2	600.8	264.5	27.7	1.000125
25500.0	372.1	-36.6	47.4	547.9	599.3	263.7	28.5	1.000123
26000.0	364.0	-37.7	54.0	538.5	597.8	261.9	29.6	1.000121
26500.0	356.0	-38.9	60.6	529.3	596.3	260.6	30.4	1.000119
27000.0	348.0	-40.0	67.2	520.3	594.9	259.9	31.0	1.000117
27500.0	340.6	-41.2	68.4	511.4	593.4	259.6	30.7	1.000115
28000.0	333.0	-42.3	65.7	502.5	591.9	259.6	29.9	1.000113
28500.0	325.0	-43.4	62.9	493.7	590.5	259.0	29.6	1.000111
29000.0	316.9	-44.6	60.2	485.2	589.0	259.0	29.4	1.000109
29500.0	311.2	-45.9	43.7**	476.9	587.4	261.3	29.2	1.000107
30000.0	304.2	-47.2	16.4**	468.9	585.9	263.1	28.9	1.000105
30500.0	297.2	-48.5		460.9	583.9	265.6	27.8	1.000103
31000.0	290.4	-49.8		452.9	582.2	268.0	27.1	1.000101
31500.0	283.7	-51.1		445.0	580.5	269.9	26.6	1.000099
32000.0	277.1	-52.4		437.3	578.8	270.5	25.8	1.000097
32500.0	270.7	-53.7		429.7	577.2	270.6	24.9	1.000096
33000.0	264.4	-54.1		420.6	576.6	265.0	25.8	1.000094
33500.0	258.2	-54.3		411.0	576.3	259.5	27.2	1.000092
34000.0	252.2	-55.6		403.8	574.6	256.4	32.0	1.000090
34500.0	246.2	-56.5		396.0	573.4	254.3	36.6	1.000088
35000.0	240.4	-56.7		387.0	573.1	254.9	39.4	1.000086
35500.0	234.8	-55.9		376.5	574.2	255.0	42.0	1.000084
36000.0	229.2	-55.1		366.2	575.3	253.1	43.9	1.000082
36500.0	223.9	-54.3		356.3	576.4	251.7	46.0	1.000079
37000.0	218.6	-53.5		346.6	577.4	252.3	49.3	1.000077
37500.0	213.5	-52.9		337.6	578.2			1.000075
38000.0	208.6	-52.4		329.2	578.8			1.000073
38500.0	203.7	-52.0		320.9	579.3			1.000071

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3989.00 FEET MSL
 12 FEB. 80 1600 HRS MST
 ASCENSION NO. 71

MANDATORY LEVELS
 0430020071
 WHITE SANDS

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 7

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
850.0	4844.	9.9	-0.9	47.	242.9	2.5	
800.0	6483.	5.2	-3.7	53.	257.6	4.0	
750.0	8197.	.2	-6.1	63.	249.4	4.9	
700.0	9995.	-5.0	-7.9	80.	242.7	11.0	
650.0	11903.	-5.2	-20.0	30.	245.7	11.3	
600.0	13953.	-8.9	-22.6	31.	259.8	10.8	
550.0	16144.	-13.8	-26.7	33.	266.4	16.0	
500.0	18493.	-19.6	-31.4	34.	263.3	22.4	
450.0	21034.	-25.1	-36.4	34.	263.1	27.1	
400.0	23801.	-32.3	-40.8	42.	264.1	27.3	
350.0	26843.	-39.8	-43.7	66.	260.0	30.8	
300.0	30241.	-48.0			264.6	28.3	
250.0	34108.	-56.1			255.5	33.6	
200.0	38800.	-51.7					

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4047.27 FEET MSL
 12 FEB. 80
 ASCENSION NO. 4

SIGNIFICANT LEVEL DATA
 0430180004
 LC-37

GEODETTIC COORDINATES
 32.41141 LAT DEG
 106.30852 LON DEG

TABLE 8

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
875.1	4047.3	12.8	-3.5	32.0
850.0	4845.7	10.1	-2.2	42.0
746.8	8322.5	.8	-5.8	01.0
700.0	10013.9	-5.0	-6.6	87.0
678.6	10815.2	-5.7	-22.1	26.0
659.8	11541.0	-4.1	-22.6	22.0
624.0	12980.1	-6.5	-24.1	23.0
500.0	18535.3	-19.2	-33.0	28.0
473.0	19886.0	-22.0	-36.2	26.0
424.6	22464.1	-28.6	-40.3	31.0
400.0	23860.1	-32.3	-38.6	52.0
392.4	24304.6	-33.2	-39.0	52.0
374.0	25409.2	-35.9	-39.0	73.0
344.4	27276.8	-40.5	-43.6	72.0
333.0	28029.1	-42.2	-46.7	01.0
316.6	29146.6	-45.1	-49.6	00.0
300.0	30323.7	-47.9		
260.2	33364.8	-55.3		
250.0	34203.6	-56.1		
227.4	36188.5	-55.9		
218.6	37018.0	-54.7		
205.6	38312.5	-54.0		
200.0	38898.0	-52.9		
162.0	43401.3	-50.6		
150.0	45044.7	-53.4		

STATION ALTITUDE 4047.27 FEET MSL
 12 FEB. 80 1715 HRS MST
 ASCENSION NO. 4

UPPER AIR DATA
 0430180004
 LC-37

GEODETIC COORDINATES
 32.41141 LAT LEG
 106.30852 LON LEG

TABLE 9

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	WETPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
4047.3	875.1	12.8	-3.5	32.0	1063.9	659.5	0.0	0.0	1.000259
4500.0	860.8	11.3	-2.6	37.7	1052.0	657.7	234.0	.7	1.000258
5000.0	845.1	9.7	-2.3	42.8	1038.5	655.9	234.6	1.6	1.000256
5500.0	829.5	8.5	-2.7	45.6	1024.2	654.4	234.6	2.4	1.000252
6000.0	814.2	7.0	-3.1	48.3	1010.2	652.8	234.9	3.2	1.000248
6500.0	799.2	5.7	-3.6	51.0	996.4	651.2	241.9	4.9	1.000245
7000.0	784.5	4.5	-4.2	53.8	982.7	649.7	244.0	6.5	1.000241
7500.0	770.0	3.0	-4.8	56.5	969.3	648.1	240.5	7.7	1.000237
8000.0	755.8	1.7	-5.4	59.2	956.2	646.5	238.6	8.6	1.000234
8500.0	741.7	.2	-5.9	63.7	943.4	644.7	238.9	9.0	1.000230
9000.0	727.7	-1.5	-6.3	71.4	931.4	642.7	228.6	9.5	1.000228
9500.0	713.9	-3.2	-6.0	79.1	919.5	640.7	228.0	10.1	1.000225
10000.0	700.4	-5.0	-6.8	86.8	907.9	638.6	234.4	10.8	1.000222
10500.0	686.9	-5.4	-14.2	50.0	892.8	637.8	245.5	12.1	1.000210
11000.0	673.8	-5.3	-22.2	25.0	875.8	637.8	251.7	12.2	1.000201
11500.0	660.8	-4.2	-22.6	22.2	855.5	639.1	250.2	11.2	1.000196
12000.0	648.2	-4.9	-23.1	22.3	841.2	638.3	251.7	10.1	1.000192
12500.0	635.7	-5.7	-23.6	22.7	827.6	637.3	248.4	9.6	1.000189
13000.0	623.5	-6.5	-24.2	23.0	814.3	636.3	251.6	10.5	1.000186
13500.0	611.2	-7.7	-24.9	23.5	801.7	634.9	254.0	11.3	1.000183
14000.0	599.1	-8.8	-25.7	23.9	789.3	633.5	257.9	11.5	1.000180
14500.0	587.5	-10.0	-26.5	24.4	777.1	632.1	260.2	11.9	1.000177
15000.0	575.7	-11.1	-27.3	24.8	765.1	630.8	260.5	12.5	1.000174
15500.0	564.5	-12.5	-28.1	25.3	753.3	629.4	261.7	13.6	1.000171
16000.0	553.2	-13.4	-28.9	25.7	741.7	628.0	264.0	15.7	1.000168
16500.0	542.5	-14.5	-29.7	26.2	730.2	626.8	265.5	17.8	1.000166
17000.0	531.6	-15.7	-30.5	26.6	719.0	625.2	268.1	19.9	1.000163
17500.0	521.1	-16.8	-31.3	27.1	708.0	623.8	268.4	21.9	1.000160
18000.0	510.8	-18.0	-32.1	27.5	697.1	622.4	264.2	23.5	1.000158
18500.0	500.7	-19.1	-33.0	28.0	686.4	621.0	262.4	25.1	1.000155
19000.0	490.5	-20.2	-34.1	27.3	675.3	619.7	260.2	26.0	1.000152
19500.0	480.6	-21.2	-35.3	26.6	664.3	618.4	258.3	26.6	1.000150
20000.0	470.7	-22.3	-36.4	26.2	653.6	617.1	258.7	25.7	1.000147
20500.0	461.0	-23.6	-37.2	27.2	643.3	615.5	255.8	25.2	1.000145
21000.0	451.4	-24.9	-37.9	28.2	633.3	613.9	258.6	25.7	1.000142
21500.0	442.1	-26.1	-38.8	29.1	623.4	612.3	257.2	26.1	1.000140
22000.0	432.9	-27.4	-39.6	30.1	613.6	610.8	257.5	26.2	1.000138
22500.0	423.9	-28.7	-40.3	31.5	604.1	609.2	257.0	25.3	1.000136
23000.0	415.0	-30.0	-39.4	39.1	594.5	607.5	257.2	25.6	1.000134
23500.0	406.2	-31.5	-39.0	46.6	585.1	605.9	257.0	23.6	1.000132

STATION ALTITUDE 4047.27 FEET MSL
 12 FEB. 68 1715 HRS MST
 ASCENSION NO. 4

UPPER AIR DATA
 0430180004
 LC-37

GEODETTIC COORDINATES
 32.41141 LAT DEG
 106.30852 LON DEG

TABLE 9 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARMS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
24000.0	397.6	-32.6	52.0	575.6	604.3	256.8	24.4	1.000130
24500.0	389.1	-33.7	55.7	565.9	602.9	256.6	25.9	1.000127
25000.0	380.7	-34.9	65.2	556.6	601.4	256.4	27.6	1.000125
25500.0	372.5	-36.1	73.0	547.4	599.8	256.3	28.8	1.000123
26000.0	364.4	-37.4	72.7	538.2	598.3	256.1	29.6	1.000121
26500.0	356.4	-38.6	72.4	529.2	596.7	256.0	30.4	1.000119
27000.0	348.6	-39.8	72.1	520.4	595.1	257.5	31.1	1.000117
27500.0	341.0	-41.0	64.7	511.6	593.6	257.9	31.1	1.000115
28000.0	333.4	-42.1	61.4	502.8	592.2	258.3	31.2	1.000113
28500.0	326.0	-43.4	60.6	494.3	590.5	258.0	31.3	1.000111
29000.0	318.7	-44.7	60.1	486.0	588.8	258.0	31.2	1.000109
29500.0	311.5	-45.9	42.0**	477.6	587.2	259.2	30.3	1.000107
30000.0	304.5	-47.1	16.5**	469.3	585.7	260.3	29.3	1.000105
30500.0	297.5	-48.3		461.0	584.1	261.7	27.9	1.000103
31000.0	290.7	-49.5		452.8	582.6	263.2	27.1	1.000101
31500.0	283.9	-50.8		444.8	581.0	264.5	27.0	1.000099
32000.0	277.4	-52.0		436.9	579.4	266.2	26.8	1.000097
32500.0	270.9	-53.2		429.1	577.8	268.4	26.5	1.000096
33000.0	264.7	-54.4		421.5	576.2	267.6	27.5	1.000094
33500.0	258.5	-55.4		413.7	574.8	264.3	30.0	1.000092
34000.0	252.4	-55.9		404.8	574.2	260.4	34.2	1.000090
34500.0	246.5	-56.1		395.6	574.0	256.7	40.2	1.000088
35000.0	240.7	-56.0		386.1	574.1	253.3	44.1	1.000086
35500.0	235.0	-56.0		376.9	574.1	255.4	45.6	1.000084
36000.0	229.5	-55.9		367.0	574.2	253.6	46.3	1.000082
36500.0	224.1	-55.4		357.5	574.6	253.7	46.2	1.000080
37000.0	218.8	-54.7		348.9	575.0	255.6	47.9	1.000078
37500.0	213.7	-54.4		340.3	576.1	255.0	50.7	1.000076
38000.0	208.7	-54.2		332.0	576.5	254.4	53.7	1.000074
38500.0	203.6	-53.6		323.4	577.2	253.9	56.8	1.000072
39000.0	199.0	-52.8		314.8	578.2	253.7	59.4	1.000070
39500.0	194.4	-52.6		307.1	578.6	253.6	61.9	1.000068
40000.0	189.9	-52.3		299.7	578.9	254.4	63.3	1.000067
40500.0	185.6	-52.1		292.4	579.2	255.4	64.4	1.000065
41000.0	181.3	-51.8		285.3	579.6	255.4	65.7	1.000064
41500.0	177.1	-51.6		278.4	579.9	255.3	67.0	1.000062
42000.0	173.0	-51.3		271.6	580.2	254.0	67.4	1.000060
42500.0	169.0	-51.1		265.1	580.6	252.3	67.6	1.000059
43000.0	165.1	-50.8		258.6	580.9	249.9	67.4	1.000058
43500.0	161.3	-50.6		252.6	581.0	247.0	67.2	1.000056

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4047.27 FEET MSL
 28 FEB. 60
 ASCENSION NO. 4

1715 HRS MST

UPPER AIR DATA
 043018U004
 LC-37

GEODETTIC COORDINATES
 32.41141 LAT DEG
 106.30852 LON DEG

TABLE 9 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
4400.0	157.3	-51.6		247.7	579.8			1.000055
43500.0	153.7	-52.3		242.9	578.7			1.000054
43000.0	150.3	-53.3		238.2	577.6			1.000053

STATION ALTITUDE 9047.27 FEET MSL
 12 FEB. 68
 ASCENSION NO. 4

MANDATORY LEVELS
 0430180004
 LC-37

GEODETIC COORDINATES
 32.41141 LAT UEG
 106.30852 LONG UEG

TABLE 10

MILLIBARS	PRESSURE GEOPOTENTIAL FEET	TEMPERATURE		REL. HUMID. PERCENT	WIND DATA	
		AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE		DIRECTION DEGREES(TM)	SPEED KNOTS
850.0	4842.	10.1	-2.2	42.	234.0	1.3
800.0	6483.	5.7	-3.6	51.	241.8	4.9
750.0	8202.	1.1	-5.7	60.	233.8	8.8
700.0	10004.	-3.0	-6.8	87.	234.6	10.9
650.0	11916.	-4.7	-23.0	22.	252.6	10.2
600.0	13967.	-8.7	-25.7	24.	257.7	11.5
550.0	16158.	-13.7	-29.1	26.	264.6	16.4
500.0	18510.	-19.2	-33.0	28.	262.3	25.1
450.0	21053.	-25.0	-38.1	28.	256.7	25.8
400.0	23821.	-32.3	-38.8	52.	256.8	24.2
350.0	26866.	-39.6	-42.7	72.	257.3	31.0
300.0	30265.	-47.9			261.2	28.4
250.0	34131.	-56.1			258.9	36.4
200.0	38806.	-52.9			253.7	58.8
175.0	41642.	-51.4			254.9	
150.0	44925.	-53.4				67.4

00 AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN LINE INTERPOLATION.

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