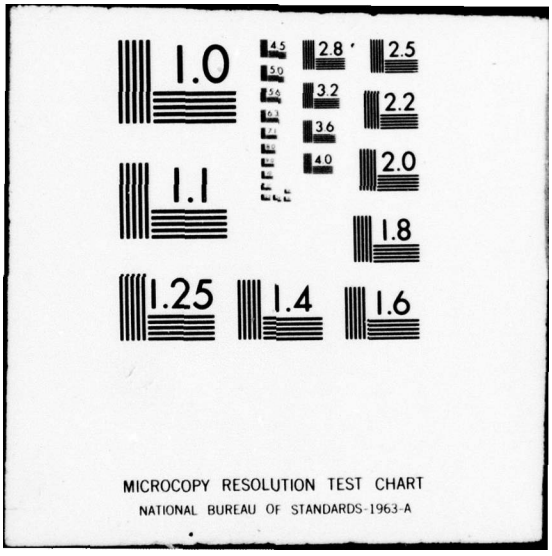
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12824C LANCE, MISSILE NUMBER 4661, ROUND NUMBER 324 NPL.(U)
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DR-985
March 1979

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METEOROLOGICAL DATA REPORT

12824C LANCE
MISSILE NO. 4661, ROUND NO. 324 NPL
(15 DECEMBER 1978)

BY

WSMR METEOROLOGICAL TEAM

DDC
RECEIVED
APR 23 1979
B

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM
UNITED STATES ARMY ELECTRONICS COMMAND

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2. METEOROLOGY
3. WIND

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

METEOROLOGICAL DATA GATHERED FOR THE LAUNCHING OF 12824C LANCE, MISSILE NUMBER 4661, ROUND NUMBER 324 NPL, ARE PRESENTED IN TABULAR FORM.

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INTRODUCTION

(AB) 12824 Lance, Missile Number 4661, Round Number 324 NPL, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1002 HRS MST, 15 December 1978. The scheduled launched time was 1000 HRS MST.

DISCUSSION

Meteorological data were recorded and reduced by the WSMR Meteorological Team, Atmospheric Sciences Laboratory (ASL), WSMR, New Mexico. The data are presented in the following tabulations.

The data are presented in the following tabulations:

ELEVATION	3989.47	FEET/MSL
PRESSURE	883.5	MBS
TEMPERATURE	+5.2	^{o}C
RELATIVE HUMIDITY	66	%
DEW POINT	-0.7	^{o}C
DENSITY	1101	GM/M^3
WIND SPEED	02	MPH
WIND DIRECTION	270	DEGREES
CLOUD COVER	3	Ci

TABLE I. SURFACE OBSERVATION TAKEN AT LC-33
1002 HRS MST/15 DECEMBER 1978.

ACCESSION for
NTIS White Section
DDC Buff Section
UNANNOUNCED
JUSTIFICATION
BY
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TIME SEC	DIRECTION (DEGREES)	SPEED (MPH)
-30	002	3
-29	002	3
-28	002	2
-27	002	2
-26	002	2
-25	002	2
-24	002	2
-23	002	2
-22	002	2
-21	002	2
-20	002	2
-19	002	2
-18	002	2
-17	002	2
-16	002	2
-15	002	2
-14	002	2
-13	002	2
-12	002	2
-11	002	2
-10	002	2
-9	002	2
-8	002	2
-7	002	2

TIME SEC	DIRECTION (DEGREES)	SPEED (MPH)
-6	002	2
-5	002	2
-4	002	2
-3	002	2
-2	002	2
-1	002	2
-0	002	2
+1	002	2
+2	002	3
+3	002	3
+4	002	3
+5	001	2
+6	001	2
+7	001	2
+8	001	2
+9	001	2
+10	001	2

TABLE II. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE NO. 1
RELEASED FROM LC-33 AT 1002 HRS MST/15 DECEMBER 1978
12824 LANCE/ROUND NUMBER 324 NPL

WSTM COORDINATES: X = 485,874.29 Y = 185,958.90 Z = 4018.74

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

TIME SEC	DIRECTION (DEGREES)	SPEED (MPH)
-30	020	3
-29	020	2
-28	020	2
-27	020	2
-26	020	2
-25	030	2
-24	030	2
-23	030	2
-22	030	2
-21	030	2
-20	030	2
-19	020	2
-18	020	2
-17	020	3
-16	020	3
-15	020	3
-14	020	3
-13	020	3
-12	020	3
-11	020	2
-10	020	2
-9	020	2
-8	020	2
-7	020	2
-6	020	2
-5	020	2
-4	020	2
-3	020	2
-2	020	2
-1	020	2
-0	020	2
+1	020	2
+2	020	2
+3	020	2
+4	020	2
+5	020	2
+6	020	2
+7	020	2
+8	020	2
+9	020	2
+10	020	2

TABLE III. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE NO. 2
RELEASED FROM LC-33 AT 1003 HRS MST/15 DECEMBER 1978
12824 LANCE/ROUND NUMBER 324 NPL

WSTM COORDINATES: X = 485,874.93 Y = 186,012.00 Z = 4,033.57

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

TIME SEC	DIRECTION (DEGREES)	SPEED (MPH)
-30	164	01
-29	164	01
-28	C	C
-27	C	C
-26	C	C
-25	C	C
-24	C	C
-23	C	C
-22	164	01
-21	164	01
-20	164	01
-19	164	01
-18	164	01
-17	164	01
-16	164	01
-15	164	01
-14	164	01
-13	164	01
-12	164	01
-11	164	01
-10	164	01
-9	164	01
-8	164	01

TIME SEC	DIRECTION (DEGREES)	SPEED (MPH)
-7	164	01
-6	164	01
-5	164	01
-4	164	01
-3	164	01
-2	164	01
-1	164	01
-0	164	01
+1	C	C
+2	C	C
+3	C	C
+4	164	01
+5	164	01
+6	164	01
+7	C	C
+8	C	C
+9	C	C
+10	C	C

TABLE IV. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE NO. 3
RELEASED FROM LC-33 AT 1003 HRS MST/15 DECEMBER 1978
12824 LANCE/ROUND NUMBER 324 NPL

WSTM COORDINATES: X = 485,877.29 Y = 186,116.06 Z = 4,063.92

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	CALM	
100	CALM	
200	CALM	
300	041	0.1
400	036	0.2
500	048	2.5
600	060	2.5
700	030	2.0
800	025	1.5
900	021	2.0
1000	041	2.5
1100	045	2.0
1200	048	1.0
1300	043	2.0
1400	037	2.5
1500	024	3.0
1600	011	3.5
1700	010	3.5
1800	009	3.0
1900	011	2.5
2000	013	2.0
2100	342	3.0
2200	311	3.5
2300	300	7.0
2400	288	10.0
2500	286	13.0
2600	284	15.5
2700	285	15.5
2800	285	15.5
2900	289	15.5
3000	293	15.0
3100	293	15.0
3200	292	15.0
3300	289	15.5
3400	285	15.5
3500	286	17.0
3600	286	18.0
3700	289	19.0
3800	292	20.0
3900	295	20.0
4000	298	19.5
4100	298	18.0

TABLE V. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM LC-33, AT 0949 HRS MST/15 DECEMBER 1978
12824 LANCE, MISSILE NO. 4661, ROUND NO. 324 NPL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,037.24 Y = 182,350.16 Z = 2,977.30

APPROXIMATELY: 1/2 MILE SOUTH OF LAUNCHER

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	298	16.5
4300	299	17.0
4400	300	17.5
4500	301	18.5
4600	302	19.0
4700	311	19.5
4800	299	19.5
4900	299	19.5
5000	298	19.0
5100	298	20.0
5200	298	21.0
5300	298	22.0
5400	298	22.5
5500	298	23.5
5600	297	24.0
5700	294	25.0
5800	291	26.0
5900	291	26.0
6000	290	26.0
6100	287	27.0
6200	284	27.5
6300	280	28.0
6400	276	28.0
6500	274	28.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
6600	272	28.0
6700	271	28.5
6800	269	29.0
6900	270	28.5
7000	271	27.5
7100	269	27.5
7200	267	27.5
7300	262	29.0
7400	257	30.0
7500	257	29.5
7600	257	29.0
7700	257	29.5
7800	256	29.5
7900		
8000		
8100		
8200		
8300		
8400		
8500		
8600		
8700		
8800		
8900		

TABLE V. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	270	2.0
100	315	1.5
200	360	1.0
300	003	3.0
400	006	5.0
500	003	3.0
600	360	1.0
700	006	2.0
800	011	2.5
900	025	3.5
1000	039	4.5
1100	065	3.5
1200	090	2.5
1300	095	2.0
1400	100	1.5
1500	061	2.0
1600	022	2.5
1700	355	3.0
1800	327	3.0
1900	310	2.5
2000	293	2.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
2100	289	2.5
2200	284	2.5
2300	295	5.5
2400	306	8.5
2500	296	11.0
2600	286	13.5
2700	285	16.0
2800	283	18.5
2900	287	17.0
3000	290	15.5
3100	289	15.5
3200	288	15.0
3300	286	15.0
3400	283	14.5
3500	283	15.5
3600	282	16.5
3700	287	18.0
3800	291	19.0
3900	291	19.5
4000	291	20.0
4100	292	19.0

TABLE VI. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM LC-33, AT 1002 HRS MST/15 DECEMBER 1978
12824 LANCE, MISSILE NO. 4661, ROUND NO. 324 NPL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,037.24 Y = 182,350.16 Z = 3,977.30

APPROXIMATELY: 1/2 MILE SOUTH OF LAUNCHER

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	292	17.5
4300	295	18.0
4400	298	18.0
4500	296	17.5
4600	294	16.5
4700	294	18.0
4800	294	19.0
4900	294	19.0
5000	293	18.5
5100	294	19.5
5200	295	20.5
5300	296	21.5
5400	297	22.0
5500	299	23.0
5600	300	24.0
5700	298	26.0
5800	295	27.5
5900	294	28.0
6000	293	28.0
6100	290	28.5
6200	287	28.5
6300	283	29.0
6400	279	29.0
6500	278	29.5

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
6600	277	29.5
6700	275	29.5
6800	273	29.5
6900	273	29.5
7000	272	29.0
7100	272	28.0
7200	271	27.0
7300	265	28.0
7400	258	29.0
7500	257	30.0
7600	255	31.0
7700	257	30.5
7800	259	30.0
7900	260	29.0
8000	260	28.0
8100	261	28.0
8200	261	27.5
8300	262	27.5
8400	263	27.0
8500	265	27.0
8600	267	26.5
8700	269	27.5
8800	271	28.0
8900	269	28.5

TABLE VI. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
9000	267	28.5

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
11400		

TABLE VI. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

STATION ALTITUDE 3989.00 FEET MSL
15 DEC. 78 1300 HRS MST
ASCENSION NO. 600

SIGNIFICANT LEVEL DATA
34900200
WHITE SANDS
TABLE VII.

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT
682.3	3989.0	3.8	-4.9	53.0
674.2	4205.1	3.6	-2.8	63.0
650.0	4965.5	4.7	-3.1	57.0
629.8	5601.3	6.0	-2.6	54.0
618.8	5990.2	5.6	-3.0	54.0
797.4	6703.8	7.0	-4.1	45.0
765.4	7810.9	7.5	-7.7	33.0
700.0	10203.2	2.1	-14.0	29.0
685.6	10754.0	1.8	-21.3	16.0
671.0	11325.8	3.5	-21.4	14.0
583.6	14990.7	-4.5	-25.6	17.0
566.2	15772.7	-5.4	-27.9	15.0
549.6	16540.9	-5.0	-29.1	13.0
500.0	18959.2	-8.3	-32.6	12.0
406.4	24125.5	-21.7	-41.9	14.0
400.0	24509.3	-22.8	-40.0	19.0
379.8	25751.2	-26.3	-35.3	42.0
370.4	26346.0	-27.6	-42.3	23.0
348.6	27773.9	-30.4	-42.9	28.0
300.0	31225.5	-39.1	-49.2	33.0
280.6	32724.9	-42.1		
250.0	35202.7	-48.5		
200.0	39976.1	-60.0		
172.6	42941.5	-66.0		
165.2	43841.0	-66.0		
150.0	45302.5	-59.4		
134.2	43002.0	-62.8		
124.4	49622.8	-62.8		
115.2	51171.2	-66.3		
100.0	53992.1	-67.4		

STATION ALTITUDE 3989.00 FEET MSL
15 DEC. 78 1600 HRS MST
ASCENSION NO. 500

SIGNIFICANT LEVEL DATA
3490020300
WHITE SANDS
TABLE VII.

GEODETIC COORDINATES
32.40043 LAT DEG
106.57033 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT
92.2	5559 5.7	-70.3		
81.0	5816 6.7	-65.3		
70.0	6106 1.1	-68.0		
61.2	6373 .5	-69.3		
50.0	6770 4.2	-65.3		
41.8	7140 1.7	-61.4		
34.8	7516 2.0	-61.1		
30.0	7926 6.2	-57.5		
23.0	8370 8.3	-57.5		
20.0	8673 7.6	-53.4		
13.2	9531 1.6	-41.6		
11.7	9656 7.4	-37.3		

STATION ALTITUDE 3989.00 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 890

UPPER AIR DATA
3490020890
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE VIII.

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
3989.0	882.3	3.3	-4.9	53.0	1107.8	648.9	.0	.0	1.000268
4000.0	881.9	3.8	-4.8	53.4	1107.4	648.9			1.000268
4500.0	865.6	4.0	-2.9	60.9	1085.7	649.5			1.000266
5000.0	849.5	4.7	-3.1	56.9	1062.7	650.1			1.000261
5500.0	833.9	5.7	-2.7	54.6	1039.2	651.5			1.000256
6000.0	818.5	5.6	-3.0	53.9	1020.5	651.2			1.000251
6500.0	803.5	6.6	-3.7	47.6	996.5	652.3			1.000245
7000.0	788.7	7.1	-5.0	41.8	976.3	652.9			1.000238
7500.0	774.3	7.4	-6.6	36.4	959.6	653.1			1.000232
8000.0	760.0	7.1	-8.2	32.7	943.3	652.7			1.000226
8500.0	746.0	5.9	-9.5	31.8	929.7	651.5	297.1	15.4	1.000222
9000.0	732.2	4.2	-10.8	31.0	916.5	650.0	291.4	18.5	1.000217
9500.0	718.6	3.7	-12.2	30.2	903.2	648.6	286.6	21.3	1.000213
10000.0	705.3	2.6	-13.5	29.3	890.2	647.2	280.4	23.2	1.000209
10500.0	692.2	1.9	-17.5	22.0	875.9	646.4	274.6	24.4	1.000203
11000.0	679.3	2.5	-21.3	15.1	857.6	647.0	267.5	23.5	1.000197
11500.0	666.6	3.1	-21.6	14.1	840.0	647.7	262.5	23.3	1.000192
12000.0	654.0	2.0	-22.2	14.6	827.4	646.4	262.8	23.9	1.000189
12500.0	641.7	.9	-22.8	15.0	815.1	645.2	266.4	24.1	1.000186
13000.0	629.6	-.2	-23.3	15.4	802.9	643.9	274.6	24.1	1.000184
13500.0	617.7	-1.2	-23.9	15.8	791.0	642.6	277.1	23.4	1.000181
14000.0	606.0	-2.3	-24.5	16.2	779.2	641.3	275.4	22.1	1.000178
14500.0	594.6	-3.4	-25.2	16.6	767.6	640.0	269.1	21.8	1.000175
15000.0	583.4	-4.5	-25.8	17.0	756.2	638.7	262.3	22.1	1.000172
15500.0	572.2	-5.1	-27.1	15.7	743.5	638.0	262.6	24.6	1.000169
16000.0	561.2	-5.3	-28.2	14.4	729.6	637.7	262.8	27.4	1.000166
16500.0	550.5	-5.6	-29.0	13.1	714.9	636.9	264.1	31.6	1.000162
17000.0	539.9	-5.6	-29.7	12.5	702.7	637.5	262.8	35.1	1.000159
17500.0	529.4	-6.3	-30.5	12.6	691.0	636.5	260.9	37.1	1.000156
18000.0	519.2	-7.0	-31.2	12.4	679.4	635.7	260.5	38.7	1.000154

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
18500.0	509.2	-7.7	-31.9	12.2	666.0	634.9	260.6	39.7	1.000151
19000.0	499.4	-8.4	-32.6	12.0	656.9	634.0	261.7	40.6	1.000148
19500.0	489.4	-9.7	-33.5	12.2	647.0	632.4	263.5	41.6	1.000146
20000.0	479.7	-11.0	-34.4	12.4	637.3	630.9	264.9	42.5	1.000144
20500.0	470.2	-12.3	-35.3	12.6	627.7	629.3	266.1	43.3	1.000141
21000.0	460.8	-13.6	-36.2	12.8	618.3	627.7	266.3	44.7	1.000139
21500.0	451.6	-14.9	-37.1	13.0	609.1	626.2	266.0	46.3	1.000137
22000.0	442.6	-16.2	-38.0	13.2	600.0	624.6	265.8	47.8	1.000135
22500.0	433.8	-17.5	-38.9	13.4	591.0	623.0	265.6	49.2	1.000133
23000.0	425.2	-18.8	-39.8	13.6	582.2	621.4	265.5	50.0	1.000131
23500.0	416.7	-20.1	-40.7	13.8	573.6	619.8	265.4	50.5	1.000129
24000.0	408.5	-21.4	-41.7	14.0	565.1	618.2	265.9	50.9	1.000127
24500.0	400.2	-22.8	-40.0	18.9	556.7	616.5	261.7	51.3	1.000125
25000.0	391.9	-24.2	-37.4	23.1	548.2	614.8	259.5	52.0	1.000124
25500.0	383.8	-25.6	-35.8	27.3	539.9	613.0	257.3	52.9	1.000122
26000.0	375.8	-26.9	-37.9	34.1	531.4	611.5	256.5	54.4	1.000120
26500.0	368.0	-27.9	-42.3	23.5	522.6	610.1	256.7	56.4	1.000117
27000.0	360.3	-28.9	-42.5	25.3	513.7	608.9	257.3	58.4	1.000115
27500.0	352.7	-29.9	-42.7	27.0	504.9	607.7	259.9	60.5	1.000113
28000.0	345.2	-31.0	-43.3	28.3	496.5	606.3	261.5	61.8	1.000111
28500.0	337.8	-32.2	-44.2	29.1	488.3	604.7	262.6	61.3	1.000110
29000.0	330.5	-33.5	-45.1	29.8	480.3	603.1	264.3	60.3	1.000108
29500.0	323.4	-34.8	-46.0	30.5	472.3	601.5	266.8	57.6	1.000106
30000.0	316.4	-36.0	-46.9	31.2	464.6	600.0	269.6	56.0	1.000104
30500.0	309.6	-37.3	-47.8	31.9	457.2	598.4	272.8	59.0	1.000102
31000.0	303.0	-38.5	-48.8	32.7	449.5	596.8	275.7	62.3	1.000101
31500.0	296.4	-39.6	-51.4	27.0**	442.1	595.3	278.7	67.3	1.000099
32000.0	289.8	-40.6	-56.6	16.0**	434.2	594.0	281.4	72.5	1.000097
32500.0	283.4	-41.7	-56.2	4.9**	426.5	592.8	284.7	75.3	1.000095
33000.0	277.1	-42.3			419.1	591.3	287.8	78.3	1.000093

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

UPPER AIR DATA
3490020000
WHITE SANDS

STATION ALTITUDE 3939.00 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 800

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TR.)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
33500.0	270.9	-44.1			411.9	569.7	288.8	82.9	1.000092
34000.0	264.8	-45.3			404.9	568.0	289.0	87.6	1.000090
34500.0	258.8	-46.6			398.0	566.4	289.3	93.0	1.000089
35000.0	253.0	-47.8			391.2	564.8	289.0	98.5	1.000087
35500.0	247.2	-49.1			384.3	563.2	288.5	101.3	1.000086
36000.0	241.4	-50.3			377.4	561.6	288.2	104.2	1.000084
36500.0	235.8	-51.5			370.6	560.0	288.0	105.1	1.000083
37000.0	230.3	-52.7			363.9	558.4	287.8	105.8	1.000081
37500.0	224.9	-54.0			357.4	556.8	287.3	107.1	1.000080
38000.0	219.6	-55.2			351.0	555.2	288.7	108.5	1.000078
38500.0	214.5	-56.4			344.7	553.6	288.3	109.2	1.000077
39000.0	209.5	-57.6			338.5	551.9	288.0	109.1	1.000075
39500.0	204.6	-58.8			332.3	550.3	288.0	109.3	1.000074
40000.0	199.8	-60.0			326.2	548.7	288.4	110.1	1.000073
40500.0	194.9	-61.1			320.1	547.4	288.9	111.0	1.000071
41000.0	190.2	-62.1			313.8	546.0	287.8	112.1	1.000070
41500.0	185.5	-63.1			307.7	544.6	287.2	113.2	1.000069
42000.0	181.0	-64.1			301.6	543.3	288.0	105.9	1.000067
42500.0	176.6	-65.1			295.7	541.9	284.5	97.9	1.000066
43000.0	172.3	-66.0			289.7	540.7	282.1	89.7	1.000065
43500.0	168.0	-66.0			282.8	540.7	279.3	81.2	1.000063
44000.0	163.9	-65.5			274.9	541.4	274.8	73.0	1.000061
44500.0	159.9	-65.3			266.1	542.7	270.9	72.6	1.000059
45000.0	156.0	-62.1			257.8	546.0	267.7	72.5	1.000057
45500.0	152.2	-60.4			249.3	548.2	268.2	73.0	1.000056
46000.0	148.6	-59.7			242.5	549.2	268.7	73.9	1.000054
46500.0	145.0	-60.4			237.4	546.2	268.2	74.8	1.000053
47000.0	141.5	-61.2			232.5	547.2	268.5	74.8	1.000052
47500.0	138.1	-61.9			227.7	548.2	268.1	74.6	1.000051
48000.0	134.7	-62.7			223.0	549.2	268.7	74.5	1.000050

STATION ALTITUDE 3989.00 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 800

UPPER AIR DATA
34900208U6
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
48500.0	131.5	-62.8			217.7	565.0	261.1	75.0	1.000048
49000.0	128.3	-62.3			212.4	563.0	261.4	75.5	1.000047
49500.0	125.2	-62.8			207.3	565.0	261.7	75.0	1.000046
50000.0	122.1	-63.7			203.0	563.9	261.7	73.0	1.000045
50500.0	119.1	-64.5			199.1	562.4	261.6	70.9	1.000044
51000.0	116.2	-65.9			195.3	560.8	260.8	65.5	1.000043
51500.0	113.3	-66.4			191.0	560.1	259.6	58.6	1.000043
52000.0	110.5	-66.6			186.4	559.9	257.2	53.9	1.000042
52500.0	107.8	-66.8			182.0	559.6	255.4	50.4	1.000041
53000.0	105.1	-67.0			177.6	559.3	254.7	49.8	1.000040
53500.0	102.5	-67.2			173.4	559.1	255.1	51.5	1.000039
54000.0	100.0	-67.4			169.3	558.8	255.3	52.9	1.000038
54500.0	97.5	-68.3			165.6	557.6	255.2	52.9	1.000037
55000.0	95.0	-69.2			162.3	556.3	255.1	52.9	1.000036
55500.0	92.6	-70.1			159.0	555.1	254.9	52.4	1.000035
56000.0	90.3	-69.5			154.5	555.9	255.9	49.0	1.000034
56500.0	88.1	-68.5			150.0	557.3	252.7	45.6	1.000033
57000.0	85.9	-67.6			145.6	558.6	251.9	42.4	1.000032
57500.0	83.8	-66.6			141.5	559.9	251.7	39.4	1.000031
58000.0	81.7	-65.5			137.1	561.2	251.5	36.5	1.000031
58500.0	79.7	-65.6			133.7	561.2	252.5	35.6	1.000030
59000.0	77.7	-66.1			130.7	560.5	253.6	35.0	1.000029
59500.0	75.8	-66.5			127.7	560.0	254.6	35.1	1.000028
60000.0	73.9	-67.0			124.9	559.4	255.2	36.4	1.000028
60500.0	72.1	-67.5			122.1	558.7	255.7	37.8	1.000027
61000.0	70.3	-67.9			119.3	558.1	256.7	39.3	1.000027
61500.0	68.5	-68.2			116.5	557.7	258.1	40.9	1.000026
62000.0	66.8	-68.4			113.7	557.4	259.3	42.6	1.000025
62500.0	65.2	-68.7			111.0	557.1	260.4	43.0	1.000025
63000.0	63.5	-68.9			108.4	556.7	263.8	43.2	1.000024

UPPER AIR DATA
3400021600
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 600

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
03500.0	61.9	-69.2			105.8	556.4	269.2	43.5	1.000024
04000.0	60.4	-69.0			103.1	556.6	272.3	40.6	1.000023
04500.0	58.9	-68.5			100.3	557.3	276.0	37.9	1.000022
05000.0	57.4	-68.0			97.6	557.9	279.7	34.9	1.000022
05500.0	56.0	-67.5			94.9	558.6	281.6	29.5	1.000021
06000.0	54.6	-67.1			92.3	559.3	284.2	24.1	1.000021
06500.0	53.3	-66.6			89.8	560.0	287.6	19.6	1.000020
07000.0	52.0	-66.1			87.4	560.6	287.4	17.2	1.000019
07500.0	50.7	-65.6			85.0	561.3	287.8	14.9	1.000019
08000.0	49.4	-65.0			82.7	562.0	287.7	13.6	1.000018
08500.0	48.2	-64.5			80.5	562.7	285.6	14.1	1.000018
09000.0	47.0	-64.0			78.4	563.4	285.0	14.6	1.000017
09500.0	45.9	-63.4			76.3	564.2	284.6	14.8	1.000017
10000.0	44.8	-62.9			74.2	564.9	285.6	14.5	1.000017
10500.0	43.7	-62.4			72.2	565.6	282.0	14.2	1.000016
11000.0	42.6	-61.8			70.3	566.3	281.1	14.2	1.000016
11500.0	41.6	-61.4			68.4	566.9	279.2	14.9	1.000015
12000.0	40.6	-61.4			66.6	567.0	277.4	15.6	1.000015
12500.0	39.6	-61.3			65.2	567.0	275.5	16.6	1.000014
13000.0	38.7	-61.3			63.8	567.1	273.6	18.3	1.000014
13500.0	37.7	-61.2			62.0	567.1	272.1	20.0	1.000014
14000.0	36.8	-61.2			60.5	567.2	270.1	21.7	1.000013
14500.0	35.9	-61.2			59.1	567.2	267.1	23.4	1.000013
15000.0	35.1	-61.1			57.8	567.3	264.5	25.3	1.000013
15500.0	34.2	-60.7			56.1	567.8	262.1	27.1	1.000013
16000.0	33.4	-60.1			54.7	568.6	259.3	28.4	1.000012
16500.0	32.6	-59.5			53.2	569.4	256.8	29.9	1.000012
17000.0	31.8	-58.9			51.8	570.2	254.5	31.3	1.000012
17500.0	31.1	-58.4			50.4	571.0	254.1	30.6	1.000011
18000.0	30.3	-57.8			49.1	571.7	253.7	30.0	1.000011

STATION ALTITUDE 3989.00 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 800

UPPER AIR DATA
3490020800
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
76500.0	29.6	-57.5			47.9	572.1	253.3	29.4	1.000011
77000.0	28.9	-57.5			46.7	572.1	255.2	26.6	1.000010
77500.0	28.2	-57.5			45.6	572.1	256.0	23.6	1.000010
78000.0	27.6	-57.5			44.5	572.1	261.5	20.6	1.000010
78500.0	26.9	-57.5			43.5	572.1	265.3	18.6	1.000010
79000.0	26.3	-57.5			42.5	572.1	269.5	17.0	1.000009
79500.0	25.7	-57.5			41.5	572.1	274.4	15.5	1.000009
80000.0	25.1	-57.5			40.5	572.1	277.2	15.4	1.000009
80500.0	24.5	-57.5			39.5	572.1	275.7	18.2	1.000009
81000.0	23.9	-57.5			38.6	572.1	271.1	21.0	1.000009
81500.0	23.3	-57.5			37.7	572.1	269.1	23.8	1.000008
82000.0	22.8	-57.2			36.7	572.5	266.1	26.6	1.000008
82500.0	22.2	-56.5			35.8	573.4	263.4	29.4	1.000008
83000.0	21.7	-55.8			34.8	574.3	261.2	32.3	1.000008
83500.0	21.2	-55.1			33.9	575.2	259.7	34.6	1.000008
84000.0	20.7	-54.4			33.0	576.2	258.8	36.0	1.000007
84500.0	20.2	-53.7			32.1	577.1	258.0	37.4	1.000007
85000.0	19.8	-53.1			31.3	578.0	257.2	38.9	1.000007
85500.0	19.3	-52.4			30.5	578.8	258.4	41.5	1.000007
86000.0	18.9	-51.8			29.7	579.7	259.5	44.4	1.000007
86500.0	18.5	-51.1			29.0	580.5	260.5	47.2	1.000006
87000.0	18.0	-50.5			28.2	581.4	262.1	49.5	1.000006
87500.0	17.6	-49.8			27.5	582.2	264.6	51.2	1.000006
88000.0	17.2	-49.2			26.8	583.0	266.9	53.0	1.000006
88500.0	16.8	-48.5			26.1	583.9	269.1	54.8	1.000006
89000.0	16.5	-47.9			25.5	584.7	272.0	55.2	1.000006
89500.0	16.1	-47.2			24.8	585.6	274.9	55.4	1.000006
90000.0	15.7	-46.6			24.2	586.4	277.8	55.8	1.000005
90500.0	15.4	-45.9			23.6	587.3	280.4	56.6	1.000005
91000.0	15.0	-45.3			23.0	588.1	282.3	58.6	1.000005

STATION ALTITUDE 3989.00 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 800

UPPER AIR DATA
34900[illegible]
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
93500.0	14.7	-44.6			22.4	568.9	284.0	60.6	1.000005
94000.0	14.4	-44.0			22.8	569.8	285.7	62.6	1.000005
94500.0	14.0	-43.3			21.3	590.6	286.5	65.5	1.000005
95000.0	13.7	-42.7			20.7	591.4	286.9	68.7	1.000005
95500.0	13.4	-42.0			20.2	592.3	287.3	71.9	1.000004
96000.0	13.1	-41.3			19.7	593.2			1.000004
96500.0	12.8	-40.5			19.2	594.2			1.000004
97000.0	12.5	-39.8			18.7	595.2			1.000004
97500.0	12.3	-39.0			18.2	596.2			1.000004
98000.0	12.0	-38.2			17.8	597.2			1.000004
98500.0	11.7	-37.4			17.3	598.2			1.000004

MKN SIGNIFICANT LEVEL DATA
34900200U
WHITE SANDS
TABLE IX.

STATION ALTITUDE 3989.00 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 800

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	WIND DATA DIRECTION DEG (TN)	SPEED MPS	N-S MPS	E-W MPS	DEW PT DEP DEG C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
2989.	9999.**	9999.**	-9999.**	-9999.**	99	-37.3	1.170+1
2960.	288.	30.	-11.	36.	99	-41.6	1.320+1
2632.	258.	20.	4.	19.	99	-53.4	2.000+1
2542.	267.	15.	1.	15.	99	-57.5	2.300+1
2575.	254.	15.	4.	15.	99	-57.5	3.000+1
2282.	264.	15.	1.	15.	99	-61.1	3.480+1
2160.	280.	8.	-1.	7.	99	-61.4	4.180+1
2058.	268.	7.	-2.	7.	99	-65.3	5.000+1
1936.	271.	22.	-0.	22.	99	-69.3	6.120+1
1855.	257.	20.	5.	20.	99	-68.0	7.000+1
1767.	252.	19.	6.	18.	99	-65.3	8.100+1
1689.	255.	27.	7.	26.	99	-70.3	9.220+1
1641.	255.	27.	7.	26.	99	-67.4	1.000+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3989.00 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 890

MANDATORY LEVELS
34900[illegible]
WHITE SANDS
TABLE X.

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

PRESSURE	GEOPOTENTIAL	TEMPERATURE AIR	TEMPERATURE DEWPOINT	REL.HUM.	WIND DATA DIRECTION	WIND DATA SPEED
MILLIBARS	FEET	DEGREES CENTIGRADE		PERCENT	DEGREES(TN)	KNOTS
850.0	4982.	4.7	-3.1	57.	9999.0	9999.0XX
800.0	6611.	6.8	-3.9	46.	9999.0	9999.0XX
750.0	8352.	6.3	-9.1	32.	9999.0	9999.0XX
700.0	10195.	2.1	-14.0	29.	276.2	24.0
650.0	12157.	1.7	-22.4	15.	263.0	24.1
600.0	14255.	-2.9	-24.9	16.	272.5	21.9
550.0	16501.	-5.0	-29.0	13.	262.0	31.7
500.0	18945.	-8.3	-32.6	12.	261.0	40.6
450.0	21590.	-15.1	-37.2	13.	265.9	46.7
400.0	24466.	-22.8	-40.0	19.	261.7	51.3
350.0	27630.	-30.2	-42.8	28.	260.5	61.2
300.0	31163.	-39.1	-49.2	35.	277.0	64.4
250.0	35180.	-48.5			286.8	99.9
200.0	39880.	-60.0			286.4	110.1
175.0	42598.	-65.5			285.9	95.3
150.0	45579.	-59.4			284.4	73.5
125.0	49393.	-62.8			281.7	75.0
100.0	53920.	-67.4			255.3	52.9
80.0	58224.	-65.5			252.2	35.8
70.0	60872.	-68.0			256.9	39.5
60.0	63901.	-68.9			273.0	40.1
50.0	67511.	-65.3			288.1	15.8
40.0	72010.	-61.3			270.3	15.9
30.0	77905.	-57.5			253.6	29.8
25.0	81630.	-57.5			277.2	15.4
20.0	86335.	-53.4			257.7	30.0
15.0	92523.	-45.2			282.1	58.3

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3989.00 FEET MSL
15 DEC. 75 1000 HRS MST
ASCENSION NO. 800

MRN MANDATORY LEVELS
34900280U
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	WIND DATA DIRECTION DEG (T.N)	SPEED MPS	N-S MPS	E-W MPS	DEW PT DEP DEG C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
2620.	282.	30.	-6.	29.	99	-45.2	1.500+1
2632.	258.	20.	4.	19.	99	-53.4	2.000+1
2490.	277.	8.	-1.	8.	99	-57.5	2.500+1
2375.	254.	15.	4.	15.	99	-57.5	3.000+1
2195.	276.	8.	-1.	8.	99	-61.3	4.000+1
2058.	288.	7.	-2.	7.	99	-65.3	5.000+1
1948.	273.	21.	-1.	21.	99	-68.9	6.000+1
1855.	257.	20.	5.	20.	99	-68.0	7.000+1
1775.	252.	18.	6.	18.	99	-65.5	8.000+1
1641.	255.	27.	7.	26.	99	-67.4	1.000+2
1505.	262.	39.	6.	38.	99	-62.8	1.250+2
1392.	264.	36.	4.	36.	99	-59.4	1.500+2
1290.	264.	49.	-12.	48.	99	-65.5	1.750+2
1216.	286.	57.	-16.	54.	99	-60.0	2.000+2
1072.	289.	51.	-17.	49.	99	-48.5	2.500+2
950.	277.	39.	-4.	38.	10	-39.1	3.000+2
842.	261.	31.	5.	31.	13	-30.2	3.500+2
748.	252.	20.	4.	20.	17	-22.8	4.000+2
658.	266.	24.	2.	24.	22	-15.1	4.500+2
577.	262.	21.	3.	21.	24	-8.3	5.000+2
503.	263.	10.	2.	10.	24	-5.0	5.500+2
434.	272.	11.	-0.	11.	22	-2.9	6.000+2
371.	263.	12.	2.	12.	24	1.7	6.500+2
311.	278.	12.	-2.	12.	16	2.1	7.000+2
255.	9999.**	9999.**	-9999.**	-9999.**	15	6.3	7.500+2
201.	9999.**	9999.**	-9999.**	-9999.**	11	6.8	8.000+2
152.	9999.**	9999.**	-9999.**	-9999.**	08	4.7	8.500+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3951.40 FEET MSL
15 DEC. 78 1057 HRS MST
ASCENSION NO. 125

SIGNIFICANT LEVEL DATA
3490050125
APACHE
TABLE XI.

GEODETIC COORDINATES
32.62700 LAT DEG
106.39352 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT
884.8	3951.4	6.8	-1.1	57.0
850.0	5079.8	4.5	-4.7	51.0
820.0	5773.4	5.7	-4.4	48.0
813.5	6209.3	7.6	-3.3	46.0
800.4	6446.5	7.3	-4.4	43.0
793.7	6875.8	7.5	-4.6	42.0
719.4	9518.0	4.0	-10.8	33.0
700.0	10246.3	2.5	-9.1	42.0
632.4	10923.5	3.2	-21.7	14.0
655.2	12003.7	2.0	-22.6	14.0
585.6	14940.6	-5.3	-23.6	22.0
544.6	16810.1	-6.3	-28.6	15.0
512.8	18352.9	-7.7	-30.5	14.0
500.0	18967.8	-9.0	-30.6	15.0
436.0	22425.3	-18.0	-28.3	40.0
400.0	24521.0	-23.8	-29.9	57.0
382.0	25624.1	-25.5	-45.0	14.0
375.4	26059.6	-26.2	-41.1	23.0
312.2	30319.6	-38.5	-49.5	30.0
300.0	31216.8	-41.0		
294.8	31608.1	-41.2		
250.0	35202.2	-49.2		
225.2	37467.4	-53.6		
200.0	39946.7	-59.7		
162.0	44191.0	-69.3		
158.2	44600.5	-67.3		
154.0	45200.6	-63.3		
150.0	45734.0	-63.2		
145.4	46309.5	-60.5		
123.3	49712.1	-66.0		

SIGNIFICANT LEVEL DATA
3490050125
APACHE

STATION ALTITUDE 3951.40 FEET MSL
15 DEC. 78 1057 HRS MST
ASCENSION NO. 125

GEODETIC COORDINATES
32.62700 LAT DEG
106.39352 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT	REL.HUM. PERCENT
117.4	50697.6	-64.2		
110.6	51894.7	-66.8		
100.0	53901.3	-67.3		
94.8	54960.3	-68.6		
85.4	57043.2	-65.0		
70.0	61017.4	-67.9		
50.0	67740.7	-65.3		
30.0	73208.5	-57.7		
24.0	62848.2	-59.4		
23.1	63648.2	-55.0		
20.0	86717.6	-51.8		
15.2	92716.3	-43.7		
13.8	94869.5	-43.2		
12.4	97202.8	-38.1		
11.5	99002.1	-38.0		

STATION ALTITUDE 3951.40 FEET MSL
15 DEC. 78 1057 HRS MST
ASCENSION NO. 125

UPPER AIR DATA
3490050125
APACHE
TABLE XII.

GEODETIC COORDINATES
32.02700 LAT DEG
106.39352 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
3951.4	884.8	6.8	-1.1	57.0	1098.4	652.6	30.0	1.9	1.000272
4000.0	863.2	6.7	-1.3	56.7	1096.8	652.5			1.000271
4500.0	860.9	5.6	-2.9	53.9	1081.0	651.2			1.000265
5000.0	850.9	4.6	-4.6	51.2	1065.4	649.8			1.000259
5500.0	835.2	5.3	-4.5	49.1	1043.1	650.7			1.000254
6000.0	819.8	6.7	-3.8	47.0	1018.5	652.4			1.000249
6500.0	804.8	7.3	-4.4	42.9	997.6	653.1			1.000243
7000.0	790.0	7.3	-4.8	41.6	979.2	653.1			1.000239
7500.0	775.5	6.7	-6.0	39.9	963.6	652.3			1.000234
8000.0	761.2	6.0	-7.1	38.2	948.2	651.5			1.000229
8500.0	747.2	5.3	-8.3	36.5	933.1	650.7			1.000224
9000.0	733.4	4.7	-9.5	34.8	918.2	649.9	282.4	18.2	1.000219
9500.0	719.9	4.0	-10.7	33.1	903.5	649.0	281.7	20.8	1.000215
10000.0	706.5	3.0	-9.6	39.0	889.8	647.9	280.7	23.3	1.000213
10500.0	693.4	2.8	-12.4	31.5	874.3	647.5	279.6	25.7	1.000206
11000.0	680.4	3.1	-21.7	14.0	857.5	647.7	278.3	27.1	1.000196
11500.0	667.7	2.6	-22.2	14.0	843.2	647.1	276.7	27.8	1.000193
12000.0	655.3	2.0	-22.6	14.0	829.2	646.4	275.1	28.1	1.000190
12500.0	642.9	.8	-22.6	15.4	817.1	645.0	273.3	27.9	1.000187
13000.0	630.7	-.5	-22.7	16.7	805.3	643.5	271.5	27.5	1.000184
13500.0	618.8	-1.7	-22.8	18.1	793.7	642.0	270.9	26.9	1.000182
14000.0	607.0	-3.0	-23.0	19.4	782.2	640.6	269.3	26.0	1.000179
14500.0	595.6	-4.2	-23.3	20.8	771.0	639.1	267.3	25.0	1.000177
15000.0	584.3	-5.3	-23.6	21.8	759.5	637.7	265.0	25.4	1.000174
15500.0	573.0	-5.6	-25.0	19.9	745.7	637.4	262.7	26.3	1.000170
16000.0	562.0	-5.9	-26.3	18.0	732.1	637.1	262.2	27.3	1.000167
16500.0	551.2	-6.1	-27.7	16.2	718.8	636.7	262.4	28.3	1.000163
17000.0	540.6	-6.3	-28.8	14.9	705.9	636.3	262.5	30.1	1.000160
17500.0	530.1	-6.9	-29.4	14.6	693.5	635.8	262.7	32.3	1.000157
18000.0	519.9	-7.4	-30.1	14.2	681.2	635.2	262.5	35.6	1.000154

AX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3951.40 FEET MSL
15 DEC. 78 1057 HRS MST
ASCENSION NO. 125

UPPER AIR DATA
3490050125
APACHE

GEODETIC COORDINATES
32.02700 LAT DEG
106.39352 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
18500.0	509.9	-8.0	-30.6	14.2	669.6	634.5	261.8	39.4	1.000152
19000.0	500.0	-9.0	-30.8	15.0	659.1	633.3	263.2	42.0	1.000149
19500.0	490.1	-10.3	-29.6	18.7	649.3	631.7	264.6	44.3	1.000147
20000.0	480.4	-11.6	-28.9	22.3	639.6	630.1	267.4	45.8	1.000146
20500.0	470.9	-12.9	-28.4	26.0	630.1	628.6	269.9	47.4	1.000144
21000.0	461.6	-14.3	-28.1	29.6	620.8	627.0	270.5	48.9	1.000142
21500.0	452.4	-15.6	-28.0	33.3	611.6	625.4	271.0	50.3	1.000140
22000.0	443.5	-16.9	-28.1	36.9	602.5	623.8	269.6	51.3	1.000138
22500.0	434.7	-18.2	-29.3	40.6	593.6	622.2	268.3	52.4	1.000136
23000.0	425.8	-19.6	-29.5	44.7	584.7	620.5	266.6	53.7	1.000134
23500.0	417.2	-21.0	-29.9	48.7	576.0	618.8	264.9	55.1	1.000132
24000.0	408.7	-22.4	-29.3	52.8	567.4	617.1	262.3	56.5	1.000130
24500.0	400.3	-23.7	-29.9	56.8	558.9	615.4	259.5	57.9	1.000128
25000.0	392.1	-24.5	-34.5	38.3	549.2	614.4	255.9	59.4	1.000124
25500.0	384.0	-25.3	-42.2	18.8	539.7	613.4	254.1	60.9	1.000121
26000.0	376.0	-26.1	-41.4	22.1	530.2	612.3	254.4	62.1	1.000119
26500.0	368.0	-27.5	-41.9	23.8	521.9	610.6	256.1	61.2	1.000117
27000.0	360.2	-29.0	-42.3	24.6	513.6	608.9	259.0	58.8	1.000115
27500.0	352.5	-30.4	-43.8	25.4	505.6	607.0	261.7	57.6	1.000113
28000.0	345.0	-31.3	-44.8	26.2	496.0	605.2	264.2	56.8	1.000112
28500.0	337.7	-33.3	-45.7	27.0	490.3	603.4	265.6	56.9	1.000110
29000.0	330.5	-34.7	-46.8	27.8	482.8	601.6	266.8	57.1	1.000108
29500.0	323.4	-36.1	-47.8	28.7	475.3	599.8	268.1	55.7	1.000106
30000.0	316.5	-37.6	-49.8	29.5	468.1	598.0	269.6	54.5	1.000105
30500.0	309.7	-39.0	-51.8	24.0**	460.8	596.1	272.8	56.2	1.000103
31000.0	302.9	-40.4	-62.4	7.2**	453.4	594.4	275.3	58.1	1.000101
31500.0	296.2	-41.1			444.8	593.4	279.6	63.1	1.000099
32000.0	289.6	-42.1			436.6	592.2	282.8	68.2	1.000097
32500.0	283.1	-43.2			428.8	590.8	285.8	73.3	1.000096
33000.0	276.7	-44.3			421.2	589.4	288.5	78.5	1.000094

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

UPPER AIR DATA
3490050125
APACHE

STATION ALTITUDE 3951.40 FEET MSL
15 DEC. 76 1057 HRS MST
ASCENSION NO. 125

GEODETIC COORDINATES
32.62700 LAT DEG
106.39352 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	DEWPOINT	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
33500.0	270.5	-45.4			413.7	586.0	290.4	82.5	1.000092
34000.0	264.4	-46.5			406.4	586.5	292.2	86.6	1.000091
34500.0	258.5	-47.6			399.2	585.1	292.2	90.0	1.000089
35000.0	252.7	-48.7			392.1	583.7	292.2	93.3	1.000087
35500.0	246.9	-49.7			385.0	582.3	290.8	96.3	1.000086
36000.0	241.2	-50.7			377.7	581.0	289.3	99.5	1.000084
36500.0	235.6	-51.7			370.6	579.7	288.0	103.8	1.000083
37000.0	230.2	-52.7			363.7	578.5	286.6	108.3	1.000081
37500.0	224.8	-53.7			356.9	577.1	285.7	112.7	1.000079
38000.0	219.5	-54.9			350.4	575.5	284.9	116.9	1.000078
38500.0	214.3	-56.1			344.1	573.9	284.8	116.0	1.000077
39000.0	209.3	-57.4			337.9	572.3	284.7	115.0	1.000075
39500.0	204.3	-58.6			331.6	570.6	285.2	109.2	1.000074
40000.0	199.5	-59.8			325.7	569.0	285.7	103.3	1.000073
40500.0	194.6	-61.0			319.4	567.5	285.8	100.9	1.000071
41000.0	189.8	-62.1			313.3	566.0	285.9	99.4	1.000070
41500.0	185.2	-63.2			307.2	564.5	285.7	99.1	1.000068
42000.0	180.6	-64.3			301.3	562.9	285.3	100.3	1.000067
42500.0	176.2	-65.5			295.5	561.4	285.0	101.5	1.000066
43000.0	171.9	-66.6			289.9	559.9	285.8	101.9	1.000065
43500.0	167.7	-67.7			284.3	558.4	282.2	102.1	1.000063
44000.0	163.5	-68.9			278.9	556.8	279.9	102.1	1.000062
44500.0	159.5	-68.0			270.8	556.0	276.6	102.0	1.000060
45000.0	155.5	-64.8			260.1	562.4	275.4	100.6	1.000058
45500.0	151.7	-63.2			251.8	564.4	270.4	97.5	1.000056
46000.0	148.1	-62.1			244.4	566.0	267.8	93.8	1.000054
46500.0	144.5	-60.7			236.9	567.2	266.1	89.8	1.000053
47000.0	140.9	-61.5			232.0	566.7	264.2	84.0	1.000052
47500.0	137.5	-62.4			227.3	565.6	263.6	80.7	1.000051
48000.0	134.2	-63.2			222.6	564.5	263.0	77.3	1.000050

UPPER AIR DATA

STATION ALTITUDE 3951.40 FEET MSL
15 DEC. 78 1657 HRS MST
ASCENSION NO. 125

3490050125
APACHE

GEODETIC COORDINATES
32.02700 LAT DEG
106.39352 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
48500.0	130.9	-64.0			218.0	563.4	262.9	75.7	1.000049
49000.0	127.7	-64.8			213.0	562.3	263.0	74.8	1.000048
49500.0	124.6	-65.7			209.2	561.2	262.9	74.1	1.000047
50000.0	121.5	-65.5			203.9	561.4	262.4	73.6	1.000045
50500.0	118.6	-64.6			198.0	562.7	262.0	73.2	1.000044
51000.0	115.6	-64.9			193.4	562.3	261.0	72.9	1.000043
51500.0	112.8	-65.9			189.6	560.8	260.1	72.7	1.000042
52000.0	110.0	-66.8			185.8	559.6	259.2	72.6	1.000041
52500.0	107.3	-67.0			181.3	559.4	258.4	72.6	1.000040
53000.0	104.6	-67.1			176.9	559.3	257.8	72.6	1.000039
53500.0	102.0	-67.2			172.6	559.1	257.5	72.6	1.000038
54000.0	99.5	-67.4			168.5	558.8	257.3	72.5	1.000038
54500.0	97.0	-68.0			164.6	557.9	257.3	72.9	1.000037
55000.0	94.6	-68.5			161.1	557.3	257.3	73.2	1.000036
55500.0	92.3	-67.7			156.4	558.4	257.4	72.8	1.000035
56000.0	90.0	-66.8			151.9	559.6	257.6	71.8	1.000034
56500.0	87.8	-65.9			147.5	560.8	257.7	70.7	1.000033
57000.0	85.6	-65.1			143.3	562.0	257.0	66.2	1.000032
57500.0	83.5	-65.3			139.9	561.6	256.2	61.7	1.000031
58000.0	81.4	-65.7			136.7	561.1	254.6	56.0	1.000030
58500.0	79.4	-66.1			133.6	560.6	251.7	49.3	1.000030
59000.0	77.4	-66.4			130.5	560.1	247.9	42.8	1.000029
59500.0	75.5	-66.8			127.5	559.6	245.6	38.6	1.000028
60000.0	73.7	-67.2			124.6	559.1	245.2	34.7	1.000028
60500.0	71.8	-67.5			121.7	558.6	244.7	31.2	1.000027
61000.0	70.1	-67.9			118.9	558.2	240.2	28.5	1.000026
61500.0	68.3	-67.7			115.9	558.4	240.1	25.9	1.000026
62000.0	66.6	-67.5			112.9	558.6	240.0	22.4	1.000025
62500.0	65.0	-67.3			110.0	558.9	252.5	18.8	1.000024
63000.0	63.4	-67.1			107.2	559.2	259.6	15.6	1.000024

UPPER AIR DATA
3490050125
APACHE

STATION ALTITUDE 3951.40 FEET MSL
15 DEC. 78 1057 HRS MST
ASCENSION NO. 125

GEODETIC COORDINATES
32.62700 LAT DEG
106.39352 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
03500.0	61.8	-66.9			104.4	559.4	276.2	13.2	1.000023
04000.0	60.3	-66.7			101.8	559.7	280.0	12.2	1.000023
04500.0	58.8	-66.6			99.2	560.0	302.9	13.0	1.000022
05000.0	57.4	-66.4			96.6	560.2	309.7	14.9	1.000022
05500.0	55.9	-66.2			94.1	560.5	302.6	18.5	1.000021
06000.0	54.6	-66.0			91.7	560.7	297.1	22.3	1.000020
06500.0	53.2	-65.8			89.4	561.0	287.4	27.3	1.000020
07000.0	51.9	-65.6			87.1	561.3	280.9	32.9	1.000019
07500.0	50.6	-65.4			84.9	561.5	276.4	37.8	1.000019
08000.0	49.4	-65.1			82.7	561.9	273.0	42.4	1.000018
08500.0	48.2	-64.7			80.5	562.4	270.5	46.7	1.000018
09000.0	47.0	-64.4			78.5	562.9	269.7	48.8	1.000017
09500.0	45.9	-64.0			76.4	563.4	269.0	51.0	1.000017
10000.0	44.8	-63.7			74.5	563.9	269.0	50.3	1.000017
10500.0	43.7	-63.3			72.5	564.4	269.4	47.8	1.000016
11000.0	42.6	-62.9			70.7	564.8	269.8	45.1	1.000016
11500.0	41.6	-62.6			68.9	565.3	270.1	38.1	1.000015
12000.0	40.6	-62.2			67.1	565.8	270.0	31.2	1.000015
12500.0	39.6	-61.8			65.3	566.3	270.5	24.4	1.000015
13000.0	38.7	-61.5			63.7	566.8	269.3	17.8	1.000014
13500.0	37.7	-61.1			62.0	567.3	260.5	11.2	1.000014
14000.0	36.8	-60.8			60.4	567.8	257.5	7.0	1.000013
14500.0	36.0	-60.4			58.9	568.2	239.3	5.3	1.000013
15000.0	35.1	-60.0			57.3	568.7	209.7	4.5	1.000013
15500.0	34.2	-59.7			55.9	569.2	190.9	5.3	1.000012
16000.0	33.4	-59.3			54.4	569.7	191.3	6.7	1.000012
16500.0	32.6	-58.9			53.0	570.2	190.3	8.0	1.000012
17000.0	31.8	-58.6			51.7	570.7	190.1	8.5	1.000012
17500.0	31.1	-58.2			50.3	571.1	211.0	8.6	1.000011
18000.0	30.3	-57.9			49.0	571.6	222.8	9.3	1.000011

STATION ALTITUDE 3951.40 FEET MSL
15 DEC. 78 1057 HRS MST
ASCENSION NO. 125

UPPER AIR DATA
3490050125
APACHE

GEODETIC COORDINATES
32.62700 LAT DEG
106.39352 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(T'N)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
76500.0	29.6	-57.8			47.9	571.7	244.0	11.4	1.000011
79000.0	28.9	-58.0			46.8	571.4	260.2	15.4	1.000010
79500.0	28.2	-58.2			45.7	571.2	269.3	20.2	1.000010
80000.0	27.5	-58.4			44.6	571.0	272.6	23.9	1.000010
80500.0	26.9	-58.5			43.6	570.7	274.1	27.0	1.000010
81000.0	26.2	-58.7			42.6	570.5	275.3	30.1	1.000009
81500.0	25.6	-58.9			41.6	570.2	274.1	32.2	1.000009
82000.0	25.0	-59.1			40.7	570.0	272.0	33.9	1.000009
82500.0	24.4	-59.3			39.8	569.7	270.2	35.6	1.000009
83000.0	23.8	-59.6			38.7	570.7	267.5	38.9	1.000009
83500.0	23.3	-55.8			37.3	574.3	264.9	42.8	1.000008
84000.0	22.7	-54.6			36.2	575.9	262.8	46.6	1.000008
84500.0	22.2	-54.1			35.3	576.6	261.4	49.0	1.000008
85000.0	21.7	-53.6			34.4	577.3	260.1	51.1	1.000008
85500.0	21.2	-53.1			33.5	577.9	259.0	53.2	1.000007
86000.0	20.7	-52.5			32.7	578.6	258.0	50.9	1.000007
86500.0	20.2	-52.0			31.8	579.3	256.4	47.6	1.000007
87000.0	19.7	-51.4			31.0	580.1	258.1	44.8	1.000007
87500.0	19.3	-50.7			30.2	581.0	257.5	41.3	1.000007
88000.0	18.9	-50.1			29.5	581.9	257.0	37.6	1.000007
88500.0	18.4	-49.4			28.7	582.8	256.2	34.0	1.000006
89000.0	18.0	-48.7			28.0	583.8	257.3	33.4	1.000006
89500.0	17.6	-48.0			27.3	584.5	258.9	33.6	1.000006
90000.0	17.2	-47.4			26.6	585.4	260.4	33.8	1.000006
90500.0	16.8	-46.7			25.9	586.3	264.6	34.9	1.000006
91000.0	16.4	-46.0			25.2	587.2	269.3	36.6	1.000006
91500.0	16.1	-45.3			24.6	588.0	273.5	38.5	1.000005
92000.0	15.7	-44.7			23.9	588.9	277.0	40.1	1.000005
92500.0	15.4	-44.0			23.3	589.7	280.1	41.7	1.000005
93000.0	15.0	-43.6			22.8	590.2	283.0	43.4	1.000005

UPPER AIR DATA
3490050125
APACHE

STATION ALTITUDE 3951.40 FEET MSL
15 DEC. 78 1057 HRS MST
ASCENSION NO. 125

GEODETIC COORDINATES
32.62700 LAT DEG
106.39352 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
93500.0	14.7	-43.5			22.0	590.4	285.5	45.6	1.000005
94000.0	14.3	-43.4			21.8	590.5	287.5	48.2	1.000005
94500.0	14.0	-43.3			21.8	590.7	289.4	50.9	1.000005
95000.0	13.7	-42.9			20.8	591.1	291.6	53.8	1.000005
95500.0	13.4	-41.9			20.2	592.5	294.0	56.8	1.000005
96000.0	13.1	-40.8			19.7	593.8	296.2	60.0	1.000004
96500.0	12.8	-39.8			19.2	595.2			1.000004
97000.0	12.6	-38.7			18.7	596.5			1.000004
97500.0	12.3	-38.1			18.2	597.3			1.000004
98000.0	12.0	-38.1			17.8	597.3			1.000004
98500.0	11.8	-38.0			17.4	597.4			1.000004
99000.0	11.5	-38.0			17.0	597.4			1.000004

MRN SIGNIFICANT LEVEL DATA
3490050125
APACHE
TABLE XIII.

STATION ALTITUDE 3951.40 FEET MSL
15 DEC. 78 1057 HRS MST
ASCENSION NO. 125

GEODETIC COORDINATES
32.62700 LAT DEG
106.39352 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	WIND DATA DIRECTION DEG (TN)	SPEED MPS	N-S MPS	E-W MPS	DEW PT DEP DEG C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
3002.	9999.**	9999.**	-9999.**	-9999.**	99	-38.0	1.150+1
2950.	9999.**	9999.**	-9999.**	-9999.**	99	-38.1	1.240+1
2877.	291.	27.	-10.	25.	99	-43.2	1.380+1
2812.	281.	22.	-4.	21.	99	-43.7	1.520+1
2731.	256.	24.	5.	23.	99	-51.8	2.000+1
2538.	264.	23.	2.	22.	99	-55.0	2.310+1
2514.	268.	19.	1.	19.	99	-59.4	2.400+1
2374.	229.	5.	3.	4.	99	-57.7	3.000+1
2057.	275.	21.	-2.	21.	99	-65.3	5.000+1
1854.	248.	15.	6.	13.	99	-67.9	7.000+1
1736.	257.	34.	8.	33.	99	-65.0	8.540+1
1670.	257.	36.	8.	37.	99	-68.6	9.480+1
1630.	257.	37.	8.	36.	99	-67.3	1.060+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3951.40 FEET MSL
15 DEC. 76 1057 HRS MST
ASCENSION NO. 125

MANDATORY LEVELS
3490050125
APACHE
TABLE XIV.

GEODETIC COORDINATES
32.02700 LAT DEG
106.39352 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS
850.0	5020.	4.5	-4.7	51.	9999.0	9999.0XX
800.0	6657.	7.4	-4.5	42.	9999.0	9999.0XX
750.0	8395.	5.5	-8.1	37.	9999.0	9999.0XX
700.0	10230.	2.5	-9.1	42.	280.1	24.5
650.0	12202.	1.5	-22.6	13.	274.3	28.0
600.0	14295.	-3.7	-23.2	20.	266.1	25.4
550.0	16530.	-6.2	-27.8	16.	262.4	20.4
500.0	18971.	-9.0	-30.8	15.	263.2	41.9
450.0	21612.	-15.9	-28.0	34.	270.6	50.6
400.0	24481.	-23.8	-29.9	57.	259.4	56.0
350.0	27642.	-30.9	-44.1	20.	262.6	57.3
300.0	31150.	-41.0			277.4	60.1
250.0	35150.	-49.2			291.6	94.6
200.0	39851.	-59.7			285.6	104.2
175.0	42551.	-65.8			284.9	101.8
150.0	45612.	-63.2			269.0	96.3
125.0	49297.	-65.5			265.0	74.2
100.0	53737.	-67.3			257.3	72.5
80.0	58164.	-66.0			252.3	51.6
70.0	60810.	-67.9			246.2	28.6
60.0	63860.	-66.7			289.7	12.3
50.0	67489.	-65.3			274.9	39.7
40.0	71982.	-62.0			270.9	28.0
30.0	77679.	-57.7			226.7	9.6
25.0	81642.	-59.1			272.2	33.8
20.0	86317.	-51.8			258.3	40.8
15.0	92554.	-43.6			262.8	45.2

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

AX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3951.40 FEET MSL
15 DEC. 76 1057 HRS MST
ASCENSION NO. 125

MRN MANDATORY LEVELS
3490050125
APACHE
TABLE XV.

GEODETIC COORDINATES
32.62700 LAT DEG
106.39352 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	WIND DATA DIRECTION DEG (TN)	SPEED MPS	N-S MPS	E-W MPS	DEW PT DEP DEG C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
2821.	263.	22.	-5.	22.	99	-43.6	1.500+1
2631.	258.	24.	5.	24.	99	-51.8	2.000+1
2468.	272.	17.	-1.	17.	99	-59.1	2.500+1
2374.	227.	5.	3.	4.	99	-57.7	3.000+1
2194.	271.	14.	-0.	14.	99	-62.0	4.000+1
2057.	275.	20.	-2.	20.	99	-65.3	5.000+1
1940.	290.	6.	-2.	6.	99	-66.7	6.000+1
1854.	246.	15.	6.	13.	99	-67.9	7.000+1
1775.	253.	27.	8.	26.	99	-66.0	8.000+1
1698.	257.	37.	8.	36.	99	-67.3	1.000+2
1503.	263.	38.	5.	36.	99	-65.5	1.250+2
1390.	269.	50.	1.	50.	99	-63.2	1.500+2
1297.	285.	52.	-13.	51.	99	-65.8	1.750+2
1215.	286.	54.	-14.	52.	99	-59.7	2.000+2
1072.	292.	49.	-18.	45.	99	-49.2	2.500+2
950.	277.	31.	-4.	31.	99	-41.0	3.000+2
845.	263.	29.	4.	29.	13	-30.9	3.500+2
746.	259.	30.	5.	29.	06	-23.8	4.000+2
659.	271.	28.	-0.	28.	12	-15.9	4.500+2
578.	263.	22.	3.	21.	22	-9.0	5.000+2
504.	262.	15.	2.	14.	22	-6.2	5.500+2
436.	268.	13.	0.	13.	19	-3.7	6.000+2
372.	274.	14.	-1.	14.	24	1.5	6.500+2
312.	280.	13.	-2.	12.	12	2.5	7.000+2
256.	9999.**	9999.**	-9999.**	-9999.**	14	5.5	7.500+2
203.	9999.**	9999.**	-9999.**	-9999.**	12	7.4	8.000+2
156.	9999.**	9999.**	-9999.**	-9999.**	09	4.5	8.500+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4010.40 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 50

SIGNIFICANT LEVEL DATA
34902200S0
NW 30
TABLE XVI.

GEODETIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT
681.5	4010.4	2.9	-2.4	66.0
679.2	4079.8	2.1	-2.0	74.0
674.2	4231.9	4.7	-2.4	60.0
650.0	4956.4	6.6	-2.5	52.0
624.0	5824.2	6.6	-3.0	48.0
304.6	6469.0	8.6	-4.9	38.0
775.8	7487.1	7.6	-6.9	35.0
737.6	8315.7	4.4	-7.4	42.0
700.0	10213.9	3.9	-14.6	24.0
682.4	10891.5	2.3	-17.7	21.0
655.4	11962.5	2.3	-25.1	11.0
561.8	15995.0	-5.2	-27.7	15.0
529.6	17513.2	-7.1	-31.6	12.0
521.6	17903.7	-6.5	-32.0	11.0
500.0	18936.7	-8.2	-33.4	11.0
446.8	21820.7	-15.2	-37.3	13.0
400.0	24502.3	-23.6	-27.3	65.0
352.6	27508.3	-29.4	-39.4	37.0
304.4	30903.1	-39.3	-50.5	26.0
300.0	31256.6	-39.7		
250.0	35292.8	-47.8		
200.0	40628.6	-58.6		
179.0	42896.4	-64.1		
166.4	43707.1	-64.8		
158.4	44705.4	-61.8		
150.0	45679.5	-61.0		
147.0	46294.9	-59.5		
125.0	49613.7	-62.9		
121.6	50175.2	-61.8		
111.4	51943.9	-66.6		

STATION ALTITUDE 4010.40 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 50

SIGNIFICANT LEVEL DATA
3490220050
NW 30

GEODETIC COORDINATES
32.68497 LAT DEG
106.49714 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT
104.8	55160.4	-67.4		
100.0	54097.4	-65.3		
95.2	55060.8	-67.3		
92.0	55765.2	-64.8		
80.0	58595.8	-62.5		
70.0	61269.2	-66.6		
65.4	62659.2	-69.0		
59.6	64478.0	-67.9		
50.0	67360.4	-66.2		
45.6	69765.3	-59.7		
40.0	72581.2	-61.5		
30.0	78521.5	-56.2		
29.0	79265.0	-55.6		
21.9	85122.1	-58.0		
20.0	87052.1	-54.1		
14.6	93365.6	-44.4		

STATION ALTITUDE 4010.40 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 50

UPPER AIR DATA
3490226050
NW 30
TABLE XVII.

GEODETIC COORDINATES
32.86497 LAT DEG
106.49714 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4010.4	861.5	2.9	-2.4	68.0	1110.0	646.0	.0	.0	1.000273
4500.0	865.5	5.4	-2.4	57.2	1080.1	650.9			1.000266
5000.0	849.6	6.6	-2.6	51.9	1055.6	652.3			1.000260
5500.0	834.0	6.6	-3.2	49.5	1030.2	652.3			1.000254
6000.0	818.7	7.1	-3.9	45.3	1015.3	652.9			1.000248
6500.0	803.7	6.6	-5.0	37.9	991.6	652.5			1.000241
7000.0	789.0	6.1	-5.9	33.4	975.6	653.9			1.000236
7500.0	774.6	7.5	-6.9	35.2	959.7	653.2			1.000231
8000.0	760.3	6.3	-7.0	37.8	946.0	651.9			1.000226
8500.0	746.3	5.1	-7.2	40.4	932.5	650.5			1.000225
9000.0	732.5	4.3	-8.2	39.6	918.1	649.5			1.000221
9500.0	719.0	4.2	-10.6	33.2	901.9	649.2			1.000214
10000.0	705.6	4.0	-13.4	26.8	886.0	648.9			1.000208
10500.0	692.5	3.2	-16.0	22.7	872.1	648.0			1.000203
11000.0	679.6	2.3	-18.3	20.0	858.8	646.8			1.000199
11500.0	666.9	2.3	-21.4	15.3	842.9	646.8			1.000193
12000.0	654.5	2.2	-25.1	11.0	827.5	646.6			1.000188
12500.0	642.1	1.3	-25.4	11.5	814.6	645.5			1.000185
13000.0	629.9	.4	-25.6	12.0	801.9	644.4			1.000182
13500.0	618.0	-.6	-25.9	12.5	789.4	643.3			1.000180
14000.0	606.3	-1.5	-26.2	13.0	777.2	642.2			1.000177
14500.0	594.8	-2.4	-26.6	13.5	765.1	641.1			1.000174
15000.0	583.6	-3.3	-26.9	14.0	753.2	640.0			1.000171
15500.0	572.5	-4.3	-27.3	14.5	741.5	638.9			1.000169
16000.0	561.7	-5.2	-27.7	15.0	730.0	637.8			1.000166
16500.0	551.0	-6.3	-28.0	14.0	717.6	637.1			1.000163
17000.0	540.3	-6.5	-30.2	13.0	705.5	636.3			1.000160
17500.0	529.9	-7.1	-31.6	12.0	695.6	635.6			1.000157
18000.0	519.5	-6.7	-32.1	11.0	679.1	635.1			1.000153
18500.0	509.6	-7.4	-32.8	11.0	667.9	634.1			1.000151

AX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4010.40 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 50

UPPER AIR DATA
3490220050
NW 30

GEODETIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
19000.0	499.7	-8.2	-33.4	11.0	657.0	634.2			1.000148
19500.0	489.9	-9.5	-34.0	11.4	647.1	632.7			1.000146
20000.0	480.3	-10.7	-34.7	11.7	637.4	631.2			1.000144
20500.0	470.8	-11.9	-35.4	12.1	627.8	629.7			1.000141
21000.0	461.6	-13.2	-36.1	12.4	618.4	628.2			1.000139
21500.0	452.5	-14.4	-36.8	12.8	609.1	626.7			1.000137
22000.0	443.5	-15.7	-35.4	16.4	600.0	625.2			1.000135
22500.0	434.6	-17.1	-31.9	26.0	590.9	623.6			1.000134
23000.0	425.8	-18.4	-29.9	35.6	582.1	621.9	267.1	44.1	1.000133
23500.0	417.2	-19.8	-28.6	45.2	573.3	620.3	271.3	48.6	1.000131
24000.0	408.8	-21.1	-27.8	54.8	564.8	618.6	274.7	53.3	1.000129
24500.0	400.5	-22.5	-27.4	64.4	556.4	617.0	278.0	49.0	1.000128
25000.0	392.2	-23.7	-29.1	60.6	547.4	615.3	277.6	44.8	1.000125
25500.0	384.1	-24.8	-31.0	56.0	538.5	614.1	274.4	39.4	1.000123
26000.0	376.1	-25.9	-32.9	51.3	529.8	612.7	269.4	34.1	1.000120
26500.0	368.3	-27.1	-35.0	46.7	521.2	611.2	263.7	33.5	1.000118
27000.0	360.7	-28.2	-37.0	42.0	512.7	609.6	264.9	34.0	1.000116
27500.0	353.2	-29.3	-39.2	37.4	504.5	608.4	266.8	31.8	1.000114
28000.0	345.6	-30.5	-40.9	35.5	496.3	606.8	259.2	28.9	1.000112
28500.0	338.2	-31.9	-42.5	33.9	488.3	605.1	252.8	29.3	1.000110
29000.0	331.0	-33.2	-44.1	32.3	480.5	603.5	252.5	31.2	1.000108
29500.0	323.9	-34.5	-45.8	30.6	472.8	601.8	254.0	35.2	1.000106
30000.0	316.9	-35.9	-47.4	29.0	465.2	600.1	256.0	40.4	1.000104
30500.0	310.1	-37.2	-49.1	27.4	457.5	598.5	256.5	44.9	1.000102
31000.0	303.5	-38.6	-50.5	20.5**	450.7	596.7	254.6	47.8	1.000101
31500.0	296.7	-40.2			443.7	594.8	253.2	50.9	1.000099
32000.0	290.1	-41.2			436.7	593.3	253.7	57.1	1.000097
32500.0	283.6	-42.2			427.8	592.1	257.6	63.5	1.000095
33000.0	277.3	-43.2			420.1	590.6	260.7	65.7	1.000094
33500.0	271.1	-44.2			412.5	589.5	263.6	67.6	1.000092

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

AX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

UPPER AIR DATA
3490220056
NW 30

STATION ALTITUDE 4010.40 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 56

GEODETIC COORDINATES
32.66497 LAT DEG
106.49714 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
34000.0	265.0	-45.2			405.1	586.2	265.0	66.9	1.000090
34500.0	259.1	-46.2			397.0	586.9	265.0	65.3	1.000089
35000.0	253.3	-47.2			390.0	585.6	266.2	64.0	1.000087
35500.0	247.6	-48.3			383.5	584.2	266.6	63.5	1.000085
36000.0	241.8	-49.4			376.3	582.7	267.3	63.3	1.000084
36500.0	236.2	-50.6			369.6	581.2	266.1	66.5	1.000082
37000.0	230.7	-51.7			362.9	579.7	266.0	69.6	1.000081
37500.0	225.3	-52.8			356.3	578.3	266.2	69.8	1.000079
38000.0	220.1	-54.0			349.8	576.8	267.8	70.0	1.000078
38500.0	214.9	-55.1			343.4	575.3	268.9	68.3	1.000076
39000.0	209.9	-56.3			337.2	573.7	268.2	66.5	1.000075
39500.0	205.0	-57.4			331.1	572.2	264.2	68.6	1.000074
40000.0	200.3	-58.5			325.1	570.7	261.8	72.6	1.000072
40500.0	195.4	-59.7			319.0	569.1	259.5	74.4	1.000071
41000.0	190.7	-61.0			313.1	567.5	257.1	73.7	1.000070
41500.0	186.1	-62.2			307.3	565.9	254.8	73.2	1.000068
42000.0	181.6	-63.4			301.6	564.2	257.1	71.1	1.000067
42500.0	177.2	-64.2			296.4	563.1	259.8	69.0	1.000066
43000.0	172.9	-64.4			286.5	562.8	262.4	69.2	1.000064
43500.0	168.6	-64.7			281.8	562.5	264.5	72.0	1.000063
44000.0	164.5	-64.1			274.1	563.3	266.4	74.9	1.000061
44500.0	160.5	-62.6			265.5	565.3	267.5	77.8	1.000059
45000.0	156.6	-61.6			257.9	566.8	268.1	80.8	1.000057
45500.0	152.8	-61.3			251.2	567.1	268.7	83.7	1.000056
46000.0	149.1	-60.6			244.4	566.0	271.0	85.3	1.000054
46500.0	145.5	-59.7			237.5	564.2	275.3	86.9	1.000053
47000.0	142.0	-60.2			232.4	566.5	275.7	88.6	1.000052
47500.0	138.6	-60.7			227.3	567.8	278.3	91.2	1.000051
48000.0	135.3	-61.2			222.4	567.1	280.8	94.0	1.000050
48500.0	132.0	-61.8			217.5	566.4	283.3	96.7	1.000048

STATION ALTITUDE 4010.40 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 50

UPPER AIR DATA
34902200S0
NW 30

GEODETIC COORDINATES
32.66497 LAT DEG
106.49714 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TM)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
49000.0	128.8	-62.3			212.6	565.7	280.1	99.3	1.000047
49500.0	125.7	-62.8			209.2	565.0	280.7	102.1	1.000046
50000.0	122.7	-62.1			202.5	565.9	290.5	106.7	1.000045
50500.0	119.7	-62.7			196.1	565.2	291.7	112.3	1.000044
51000.0	116.7	-64.0			194.5	563.4	292.8	117.9	1.000043
51500.0	113.9	-65.4			190.9	561.5	292.4	124.5	1.000043
52000.0	111.1	-66.6			187.4	559.8	291.9	131.0	1.000042
52500.0	108.3	-67.0			183.0	559.4	291.3	134.3	1.000041
53000.0	105.6	-67.3			178.8	559.0	290.0	135.9	1.000040
53500.0	103.0	-66.6			173.8	559.8	289.8	137.9	1.000039
54000.0	100.5	-65.5			168.8	561.4	288.9	141.0	1.000038
54500.0	98.0	-66.1			164.9	560.5	287.9	144.1	1.000037
55000.0	95.6	-67.1			161.6	559.2	287.5	147.1	1.000036
55500.0	93.2	-65.5			156.6	561.0	287.2	150.0	1.000035
56000.0	90.9	-64.6			151.9	562.0	286.9	152.9	1.000034
56500.0	88.7	-64.2			147.9	563.1	287.3	150.2	1.000033
57000.0	86.6	-63.9			144.0	563.7	287.7	147.2	1.000032
57500.0	84.4	-63.4			140.2	564.2	288.1	143.8	1.000031
58000.0	82.4	-63.0			136.6	564.8	288.5	138.0	1.000030
58500.0	80.4	-62.6			133.0	565.3	288.9	132.2	1.000030
59000.0	78.4	-63.1			130.1	564.6	288.8	126.1	1.000029
59500.0	76.5	-63.9			127.3	563.6	287.5	119.4	1.000028
60000.0	74.6	-64.6			124.7	562.8	286.6	112.7	1.000028
60500.0	72.8	-65.4			122.1	561.5	285.6	105.7	1.000027
61000.0	71.0	-66.2			119.5	560.3	284.8	98.6	1.000027
61500.0	69.3	-67.0			117.0	559.4	279.7	92.0	1.000026
62000.0	67.5	-67.9			114.6	558.2	272.5	86.3	1.000026
62500.0	65.9	-68.8			112.2	557.0	269.9	81.1	1.000025
63000.0	64.2	-68.3			109.5	558.9	267.1	76.0	1.000024
63500.0	62.6	-66.5			106.6	557.6	269.5	72.5	1.000024

UPPER AIR DATA

STATION ALTITUDE 4010.40 FEET MSL
15 DEC. 78 1000 HRS MST
ASCENSION NO. 50

3490220050
NM 30

GEODETIC COORDINATES
32.86497 LAT DEG
106.49714 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
04000.0	61.1	-68.2			103.3	557.7	264.5	70.0	1.000023
04500.0	59.5	-67.9			101.0	558.1	263.6	67.6	1.000023
05000.0	58.1	-67.6			98.4	558.5	262.3	66.0	1.000022
05500.0	56.6	-67.4			95.9	558.8	260.8	65.0	1.000021
06000.0	55.2	-67.2			93.4	559.1	259.2	64.1	1.000021
06500.0	53.9	-66.9			91.0	559.5	258.0	63.5	1.000020
07000.0	52.5	-66.7			88.6	559.8	257.0	63.3	1.000020
07500.0	51.2	-66.4			86.3	560.1	256.0	63.0	1.000019
08000.0	50.0	-66.1			84.1	560.5	255.8	63.7	1.000019
08500.0	48.7	-64.3			81.3	563.0	255.9	65.1	1.000018
09000.0	47.6	-62.5			78.6	565.4	256.1	66.4	1.000018
09500.0	46.4	-60.7			76.1	567.9	256.6	68.6	1.000017
10000.0	45.3	-59.9			74.0	569.0	257.4	71.3	1.000016
10500.0	44.2	-60.2			72.3	568.5	258.1	74.1	1.000016
11000.0	43.1	-60.5			70.7	568.1	258.4	77.3	1.000016
11500.0	42.1	-60.8			69.1	567.7	258.5	80.8	1.000015
12000.0	41.1	-61.1			67.5	567.2	258.6	84.4	1.000015
12500.0	40.1	-61.5			66.0	566.8	258.7	87.8	1.000015
13000.0	39.1	-61.1			64.3	567.3	258.2	89.3	1.000014
13500.0	38.2	-60.7			62.8	567.9	257.7	90.8	1.000014
14000.0	37.3	-60.2			61.0	568.5	257.3	92.3	1.000014
14500.0	36.4	-59.8			59.5	569.1	257.6	92.3	1.000013
15000.0	35.5	-59.3			57.9	569.7	258.5	90.8	1.000013
15500.0	34.7	-58.9			56.4	570.3	259.5	89.4	1.000013
16000.0	33.9	-58.4			55.0	570.9	260.5	87.9	1.000012
16500.0	33.1	-58.0			53.5	571.4	261.6	82.3	1.000012
17000.0	32.3	-57.6			52.2	572.0	263.0	76.4	1.000012
17500.0	31.5	-57.1			50.6	572.6	264.6	70.6	1.000011
18000.0	30.8	-56.7			49.5	573.2	265.1	63.8	1.000011
18500.0	30.0	-56.2			48.2	573.8	265.5	55.3	1.000011

STATION ALTITUDE 4010.40 FEET MSL
15 DEC. 76 1000 HRS MST
ASCENSION NO. 50

UPPER AIR DATA
3490220050
NW 30

GEODETIC COORDINATES
32.86497 LAT DEG
106.49714 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
79000.0	29.3	-55.8			47.0	574.4	261.2	46.9	1.000010
79500.0	28.5	-55.7			45.9	574.5	258.0	38.5	1.000010
80000.0	26.0	-55.9			44.8	574.2	254.1	35.0	1.000010
80500.0	27.3	-56.1			43.8	573.9	249.9	33.2	1.000010
81000.0	26.7	-56.3			42.8	573.7	245.4	31.7	1.000010
81500.0	26.0	-56.5			41.9	573.4	240.4	30.4	1.000009
82000.0	25.4	-56.7			40.9	573.1	236.6	30.5	1.000009
82500.0	24.8	-56.9			40.0	572.9	236.1	31.1	1.000009
83000.0	24.2	-57.1			39.1	572.6	237.7	31.7	1.000009
83500.0	23.7	-57.3			38.2	572.3	237.2	32.2	1.000008
84000.0	23.1	-57.5			37.3	572.0	236.7	31.6	1.000008
84500.0	22.6	-57.7			36.5	571.8	241.0	30.6	1.000008
85000.0	22.0	-58.0			35.7	571.5	245.5	29.6	1.000008
85500.0	21.5	-57.2			34.7	572.5	248.1	28.7	1.000008
86000.0	21.0	-56.2			33.7	573.6	252.3	28.5	1.000008
86500.0	20.5	-55.2			32.8	575.2	259.6	28.9	1.000007
87000.0	20.0	-54.2			31.9	576.5	266.6	29.8	1.000007
87500.0	19.6	-53.4			31.0	577.5	273.1	31.1	1.000007
88000.0	19.1	-52.7			30.2	578.4	277.4	31.9	1.000007
88500.0	18.7	-52.0			29.4	579.3	280.7	32.4	1.000007
89000.0	18.3	-51.3			28.7	580.3	283.9	33.0	1.000006
89500.0	17.9	-50.5			27.9	581.2	286.9	33.7	1.000006
90000.0	17.4	-49.9			27.2	582.1	287.9	34.1	1.000006
90500.0	17.0	-49.2			26.5	583.0	287.1	34.1	1.000006
91000.0	16.7	-48.5			25.8	584.0	286.4	34.0	1.000006
91500.0	16.3	-47.8			25.2	584.9	285.6	34.0	1.000006
92000.0	15.9	-47.0			24.5	585.8			1.000005
92500.0	15.5	-46.3			23.9	586.7			1.000005
93000.0	15.2	-45.6			23.3	587.6			1.000005
93500.0	14.8	-44.9			22.7	588.5			1.000005

MRN SIGNIFICANT LEVEL DATA
3490220050
TABLE XVIII.

STATION ALTITUDE 4010.40 FEET MSL
15 DEC. 78 [illegible] MST
ASCENSION NO. 50

GEODETIC COORDINATES
32.06497 LAT DEG
106.49714 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	WIND DATA DIRECTION DEG (TN)	SPEED MPS	N-S MPS	E-W MPS	DEW PT DEP DEG C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
2647.	9999.**	9999.**	-9999.**	-9999.**	99	-44.4	1.460+1
2641.	267.	15.	1.	15.	99	-54.1	2.000+1
2583.	244.	15.	7.	14.	99	-58.0	2.190+1
2405.	2[illegible]	22.	4.	22.	99	-55.6	2.900+1
2383.	263.	20.	3.	20.	99	-56.2	3.000+1
2203.	259.	45.	9.	44.	99	-61.5	4.000+1
2116.	257.	36.	8.	35.	99	-59.7	4.580+1
2004.	256.	30.	6.	32.	99	-66.2	5.000+1
1958.	264.	35.	4.	35.	99	-67.9	5.960+1
1903.	269.	41.	1.	41.	99	-69.0	6.540+1
1802.	278.	49.	-6.	48.	99	-66.6	7.000+1
1780.	289.	67.	-22.	64.	99	-62.5	8.000+1
1694.	287.	76.	-23.	75.	99	-64.8	9.200+1
1674.	287.	70.	-23.	72.	99	-67.3	9.520+1
1644.	289.	70.	-23.	69.	99	-65.3	1.000+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4010.40 FEET MSL
19 DEC. 73 1000 MWS GMT
ASCENSION NO. 59

MANDATORY LEVELS
3490220050
TABLE XIX.

GEODETIC COORDINATES
32.35497 LAT DEG
106.49714 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS
850.0	4980.	6.6	-2.5	52.	9999.0	9999.0XX
800.0	6620.	8.4	-5.2	38.	9999.0	9999.0XX
750.0	8352.	5.5	-7.1	40.	9999.0	9999.0XX
700.0	10204.	3.9	-14.8	24.	9999.0	9999.0XX
650.0	12169.	1.9	-25.2	11.	9999.0	9999.0XX
600.0	14274.	-2.0	-26.4	15.	9999.0	9999.0XX
550.0	16524.	-5.9	-29.1	14.	9999.0	9999.0XX
500.0	18961.	-8.2	-33.4	11.	9999.0	9999.0XX
450.0	21614.	-14.8	-37.0	10.	9999.0	9999.0XX
400.0	24490.	-22.6	-27.3	65.	270.1	48.8
350.0	27660.	-29.8	-39.9	30.	268.7	30.6
300.0	31190.	-39.7			268.3	49.2
250.0	35217.	-47.8			268.5	69.7
200.0	39934.	-58.6			261.8	72.6
175.0	42645.	-64.3			261.2	68.1
150.0	45756.	-61.0			270.3	84.9
125.0	49475.	-62.9			269.1	102.6
100.0	53935.	-65.3			268.7	141.4
80.0	58405.	-62.5			288.9	131.4
70.0	61092.	-66.6			277.8	95.1
60.0	64116.	-68.0			264.0	68.5
50.0	67726.	-66.2			255.7	63.6
40.0	72267.	-61.5			258.3	87.9
30.0	78191.	-56.2			268.5	55.6
25.0	81995.	-56.9			238.3	30.9
20.0	86031.	-54.1			208.5	29.8
15.0	92609.	-45.2				

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

XX WIND DATA INVALID DUE TO MISSING PAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4010.40 FEET MSL
15 DEC. 76 1000 MCS MST
ASCENSION NO. 50

MRN MANDATORY LEVELS
34902280S6
TABLE XX.

GEODETIC COORDINATES
32.08497 LAT DEG
106.49714 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	WIND DATA DIRECTION DEG (T-N)	SPEED MPS	N-S MPS	E-W MPS	DEW PT DEP DEG C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
2829.	9999.**	9999.**	-9999.**	-9999.**	99	-45.2	1.500+1
2641.	267.	15.	1.	15.	99	-54.1	2.000+1
2499.	256.	16.	3.	14.	99	-56.9	2.500+1
2383.	264.	29.	3.	28.	99	-56.2	3.000+1
2203.	259.	45.	9.	44.	99	-61.5	4.000+1
2064.	256.	33.	8.	32.	99	-66.2	5.000+1
1954.	264.	35.	4.	35.	99	-68.0	6.000+1
1862.	278.	49.	-7.	48.	99	-66.6	7.000+1
1780.	289.	60.	-22.	54.	99	-62.5	8.000+1
1644.	289.	75.	-23.	69.	99	-65.3	1.000+2
1506.	289.	53.	-17.	50.	99	-62.9	1.250+2
1395.	270.	44.	-0.	44.	99	-61.0	1.500+2
1300.	261.	35.	5.	35.	99	-64.3	1.750+2
1217.	262.	37.	5.	37.	99	-58.6	2.000+2
1073.	267.	33.	2.	33.	99	-47.8	2.500+2
951.	254.	25.	7.	24.	99	-39.7	3.000+2
843.	259.	16.	3.	15.	10	-29.8	3.500+2
747.	276.	25.	-3.	25.	05	-22.6	4.000+2
659.	9999.**	9999.**	-9999.**	-9999.**	22	-14.8	4.500+2
576.	9999.**	9999.**	-9999.**	-9999.**	25	-8.2	5.000+2
504.	9999.**	9999.**	-9999.**	-9999.**	23	-5.9	5.500+2
435.	9999.**	9999.**	-9999.**	-9999.**	24	-2.0	6.000+2
371.	9999.**	9999.**	-9999.**	-9999.**	27	1.9	6.500+2
311.	9999.**	9999.**	-9999.**	-9999.**	19	3.9	7.000+2
255.	9999.**	9999.**	-9999.**	-9999.**	13	5.5	7.500+2
202.	9999.**	9999.**	-9999.**	-9999.**	14	8.4	8.000+2
152.	9999.**	9999.**	-9999.**	-9999.**	09	6.6	8.500+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.