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ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/6 4/2
12828D LANCE, MISSILE NUMBER 4347, ROUND NUMBER 326ESL.(U)
MAR 79

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) 1. Ballistics 2. Meteorology 3. Wind			
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) <i>THIS REPORT CONTAINS</i> Meteorological data gathered for the launching of 12828D Lance, Missile number 4347, Round number 326ESL are presented in tabular form.			

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CONTENTS

	PAGE
INTRODUCTION -----	1
DISCUSSION -----	1
MAP -----	2
TABLES	
I. SURFACE OBSERVATIONS TAKEN AT 0921 MST -----	3
II. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE 2, ROUND 326ESL, AT 0921 MST -----	4
III. PILOT-BALLOON-MEASURED WIND DATA AT 0850 MST -----	5-7
IV. PILOT-BALLOON-MEASURED WIND DATA AT 0921 MST -----	8-10
V. WSD SIGNIFICANT LEVEL DATA AT 0855 MST -----	11-12
VI. WSD UPPER AIR DATA AT 0855 MST -----	13-18
VII. MRN SIGNIFICANT LEVEL DATA AT 0855 MST -----	19
VIII. MRN MANDATORY LEVELS AT 0855 MST -----	20
IX. MRN MANDATORY LEVELS AT 0855 MST -----	21
X. APA SIGNIFICANT LEVEL DATA AT 0800 MST -----	22
XI. APA UPPER AIR DATA AT 0800 MST -----	23-27
XII. MRN SIGNIFICANT LEVEL DATA AT 0800 MST -----	28
XIII. MRN MANDATORY LEVELS AT 0800 MST -----	29
XIV. MRN MANDATORY LEVELS AT 0800 MST -----	30
XV. JAL SIGNIFICANT LEVEL DATA AT 0850 MST -----	31
XVI. JAL UPPER AIR DATA AT 0850 MST -----	32-36
XVII. MRN SIGNIFICANT LEVEL DATA AT 0850 MST -----	37
XVIII. JAL MANDATORY LEVELS AT 0850 MST -----	38
XIX. MRN MANDATORY LEVELS AT 0850 MST -----	39

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INTRODUCTION

Lance 128280 , Missile Number 4347 , Round Number 326Es1 , was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 0919 MST, 2 March 1979 . The scheduled launch time was 0900 MST.

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 ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction, wind velocity and cloud cover were made at the LC-33 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted anemometer at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

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

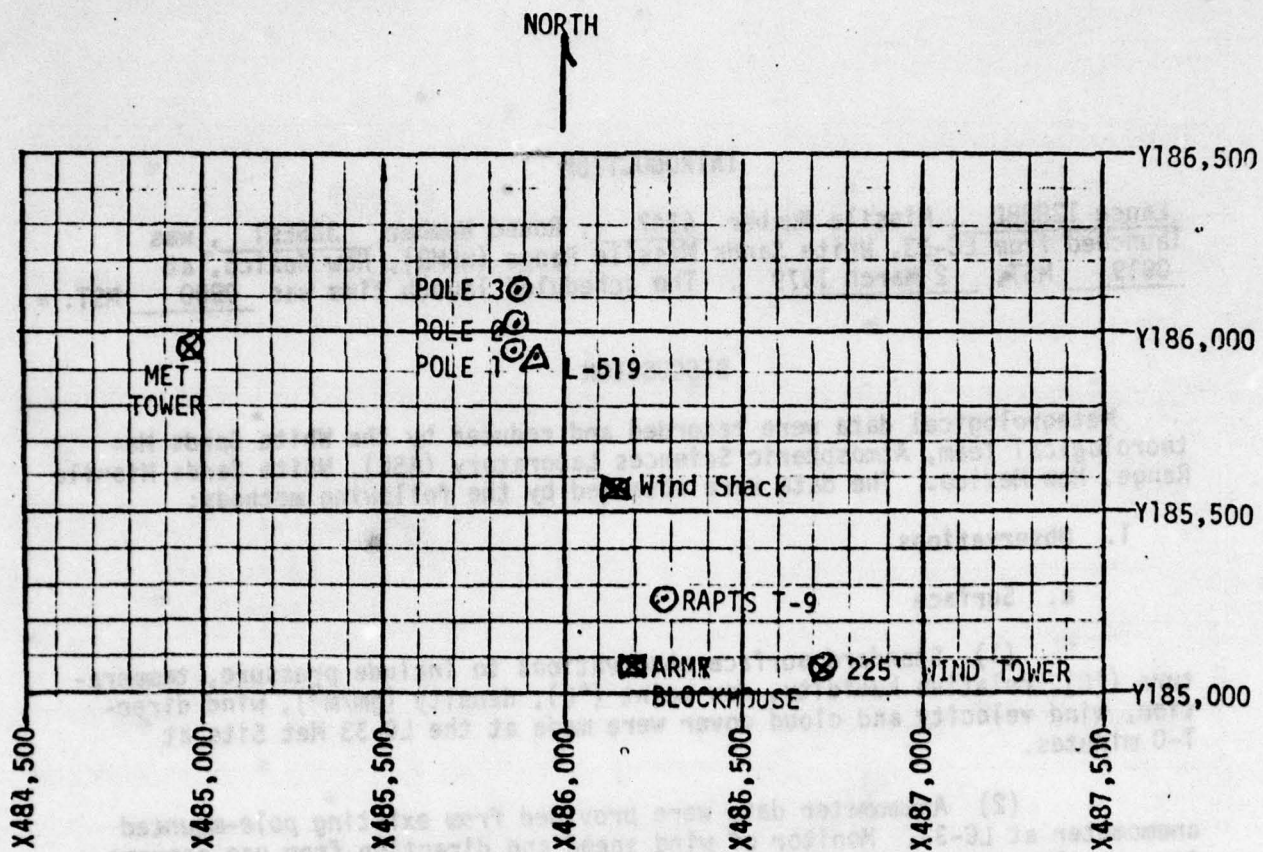
SITE AND ALTITUDE

LC-33 0850 MST to 9200 feet

0921 MST to 9200 feet

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 125% of apogee in 500-foot increments.

WSD 0850 MST
APA 0800 MST
JAL 0850 MST



1. MET TOWER - 4 Bendix Model T-120 Anemometers at 12 ft, 62 ft, 102 ft and 202 ft with E/A recorders in Wind Shack.
2. POLE ANEMOMETER - Bendix Model T-120 with E/A recorders in Wind Shack
 - (a) Pole #1 - 38.7 ft
 - (b) Pole #2 - 53.0 ft
 - (c) Pole #3 - 83.6 ft
3. 225 FT WIND TOWER - 5 Bendix Model T-120 Anemometers at 35 ft, 88 ft, 128 ft, 168 ft and 200 ft with 5 X-Y visual indicators in Blockhouse.
4. RAPTS T-9 - Radar Automatic Pilot-Balloon Tracking System T-9 Radar

The data are presented in the following tabulations:

ELEVATION	3977	FEET/MSL
PRESSURE	871.2	MBS
TEMPERATURE	7.1	°C
RELATIVE HUMIDITY	70	%
DEW POINT	2.1	°C
DENSITY	1079	GM/11 ³
WIND SPEED	8	MPH
WIND DIRECTION	330	DEGREES
CLOUD COVER	3	ST
CLOUD COVER	5	SC
CLOUD COVER	2	AC

TABLE I. SURFACE OBSERVATIONS TAKEN AT LC-33 AT 0921 MST,
2 MARCH 1979, 12828D LANCE, MISSILE NUMBER 4347,
ROUND NUMBER 326ESL.

FIXED POLE ANEMOMETER MEASURED WINDS

ANEMOMETER HEIGHT FT. 53		
T-TIME SEC	DIR DEG	SPEED MPH
-30	302	11
-20	322	10
-10	309	10
0.0	297	11
+10	309	15

WSTM COORDINATES: X = 485,874.93 Y = 186,012.00 H = 4033.57 (base)

TABLE II. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION,
POLE 3, ROUND 326ESL, AT 0921 MST

OD 12828D Lance, Missile Number 4347, Round Number 326-ESL

HEIGHT (Feet)	DIRECTION (Degrees)	SPEED (MPH)
SUR	330	7.0
100	322	6.0
200	313	4.5
300	304	3.5
400	295	2.0
500	294	5.0
600	292	8.0
700	291	11.0
800	289	13.5
900	287	15.5
1000	284	17.0
1100	281	19.0
1200	278	20.5
1300	277	21.0
1400	275	21.5
1500	273	22.0
1600	271	22.5
1700	273	22.5
1800	274	22.0
1900	275	21.5
2000	276	21.0

HEIGHT (Feet)	DIRECTION (Degrees)	SPEED (MPH)
2100	272	20.0
2200	267	18.5
2300	262	17.0
2400	257	15.5
2500	253	17.0
2600	249	18.5
2700	245	20.0
2800	241	21.5
2900	242	22.0
3000	242	22.5
3100	242	23.0
3200	242	23.0
3300	242	24.5
3400	242	26.0
3500	242	27.5
3600	241	29.0
3700	240	29.5
3800	239	29.5
3900	238	30.0
4000	236	30.0
4100	237	30.5

TABLE III. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO 1
RELEASED FROM LC-33, AT 0850 MST, 2 March 1979.

PIBAL RELEASE POINT WSTM COORDINATES

X = 486.037.24 Y=182,350.16 Z=3977.30

APPROXIMATELY 1/4 MILES SOUTH OF LAUNCHER.

OD12828D Lance, Missile Number 4347, Round Number 326-ESL

HEIGHT (Feet)	DIRECTION (Degrees)	SPEED (mph)
4200	238	30.5
4300	239	30.5
4400	239	30.5
4500	240	32.0
4600	241	33.0
4700	242	34.0
4800	242	35.0
4900	241	36.0
5000	239	37.0
5100	238	38.0
5200	236	38.5
5300	236	37.5
5400	235	36.5
5500	234	35.5
5600	233	34.0
5700	234	35.0
5800	234	35.5
5900	235	36.0
6000	235	36.5
6100	233	37.5
6200	231	38.5

HEIGHT (Feet)	DIRECTION (Degrees)	SPEED (MPH)
6600	227	41.5
6700	227	42.0
6800	226	42.5
6900	226	44.0
7000	226	45.0
7100	226	46.0
7200	225	47.0
7300	226	47.0
7400	227	47.0
7500	228	47.0
7600	228	47.0
7700	229	47.5
7800	229	47.5
8000	229	48.0
8100	229	48.0
8200	229	48.5
8300	229	48.5
8400	229	49.0
8500	229	49.0
8600	230	49.5
8700	230	49.5

TABLE III.(Cont'd)

NOTE: WIND DIRECTION DATA ARE REFERENCED 360°.
(FIRING AZIMUTH OR TRUE NORTH)

PIBAL DATA FORM

OD 12828 (FB) Lance

Missile Number 4347 Round 326-ESL

HEIGHT (Feet)	DIRECTION (Degrees)	SPEED (MPH)
SUR	330	8.0
100	325	7.5
200	319	7.0
300	313	6.5
400	307	6.0
500	304	10.0
600	300	13.5
700	296	17.5
800	292	21.0
900	292	21.0
1000	291	21.0
1100	291	21.0
1200	290	20.5
1300	304	17.5
1400	317	14.0
1500	330	11.0
1600	343	7.5
1700	325	11.0
1800	307	14.0
1900	289	17.0
2000	271	20.0

HEIGHT (Feet)	DIRECTION (Degrees)	SPEED (MPH)
2100	267	19.5
2200	262	18.5
2300	258	18.0
2400	253	17.0
2500	252	17.5
2600	250	18.0
2700	249	18.5
2800	247	18.5
2900	245	19.5
3000	243	20.0
3100	241	20.5
3200	239	21.0
3300	236	22.0
3400	233	23.0
3500	230	24.0
3600	227	25.0
3700	229	24.5
3800	230	24.0
3900	232	23.5
4000	233	22.5
4100	233	23.0

TABLE IV. PILOT-BALLON-MEASURED WIND DATA, RELEASE NO. 2,
RELEASED FROM LC-33, AT 0921, MST, 2 March 1979.

PIBAL RELEASE POINT WSTM COORDINATES
 X = 486,037.24 Y=182,350.16 Z=3977.30
 APPROXIMATELY 1/4 mile SOUTH OF LAUNCHER.

HEIGHT (Feet)	DIRECTION (Degrees)	SPEED (MPH)
4200	233	23.5
4300	233	24.0
4400	232	24.5
4500	232	26.0
4600	231	27.5
4700	231	29.0
4800	230	30.5
4900	232	31.0
5000	234	31.5
5100	236	32.0
5200	237	32.0
5300	238	33.5
5400	238	35.0
5500	239	36.5
5600	239	38.0
5700	238	38.5
5800	236	38.5
5900	235	39.0
6000	233	39.0
6100	233	40.0
6200	233	40.5

HEIGHT (Feet)	DIRECTION (Degrees)	SPEED (MPH)
6300	233	41.0
6400	233	41.5
6500	233	42.5
6600	232	43.5
6700	232	44.5
6800	231	45.5
6900	231	45.0
7000	231	44.5
7100	231	44.0
7200	231	43.0
7300	232	44.0
7400	232	44.5
7500	232	45.0
7600	232	45.5
7700	232	46.0
7800	231	46.5
7900	230	47.0
8000	229	47.5
8100	229	47.5
8200	229	47.5
8300	229	47.5

TABLE IV (Cont'd)

NOTE: WIND DIRECTION DATA ARE REFERENCED 360°. (Firing azimuth or true north)

STATION ALTITUDE 3989.00 FEET MSL
 2 MAR. 79 0055 HRS MST
 ASCENSION I.O. 111

SIGNIFICANT LEVEL DATA
 0610020111
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG.
 106.37033 LON DEG.

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUMID. PERCENT
872.0	3989.0	7.7	1.5	65.0
850.0	4677.5	4.7	-7	68.0
338.8	5096.1	3.7	-9	72.0
786.2	6756.3	2.1	-6.0	55.0
747.0	8104.5	-1.4	-8.4	59.0
727.6	8725.6	-2.1	-11.0	48.0
700.0	9798.3	-4.4	-13.7	48.0
583.9	14354.3	-16.3	-23.2	55.0
558.8	15472.5	-14.6	-21.2	80.0
500.0	18166.1	-24.9	-25.6	92.0
464.2	19930.5	-28.5	-33.5	62.0
427.4	21857.7	-33.5	-38.7	59.0
400.0	23375.2	-37.5	-41.0	65.0
372.0	25007.3	-42.1	-44.2	80.0
345.8	26623.0	-45.2	-50.3	56.0
339.6	27020.0	-45.8		
327.0	27330.7	-44.7		
300.0	29747.5	-45.0		
273.0	31751.9	-46.4		
250.0	33728.8	-49.1		
241.4	34464.7	-49.5		
231.2	35444.9	-50.1		
216.4	36845.9	-47.6		
200.0	38533.2	-49.5		
162.4	43025.7	-51.6		
150.0	44713.7	-54.3		
142.6	45711.8	-54.7		
133.8	46332.3	-54.2		
121.4	47505.9	-55.7		
127.8	48093.3	-53.5		
103.4	52546.2	-57.7		
100.0	53238.0	-60.0		
96.8	53898.1	-60.3		
93.6	54600.0	-58.2		
84.0	56300.4	-58.4		
81.2	57336.8	-56.8		
70.0	60543.0	-59.3		
60.2	63732.0	-63.6		
57.4	64705.4	-60.2		
50.0	67535.2	-62.3		

STATION ALTITUDE 3989.00 FEET MSL
 2 MAR. 79
 ASCENSION NO. 111

SIGNIFICANT LEVEL DATA
 0010020111
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG.
 106.37033 LON DEG

PRESSURE GEOMETRIC MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
43.0	70632.8	-59.6
37.4	73507.4	-61.1
30.0	78046.9	-60.0
20.0	80514.5	-55.3
12.1	97530.6	-39.0

TOP 33033 LON DEG
 32.40043 LAT DEG
 GEODETIC COORDINATES

WHITE SANDS
 0010020111
 SIGNIFICANT LEVEL DATA

STATION ALTITUDE 3989.00 FEET MSL
 2 MAR. 79
 ASCENSION NO. 111

STATION ALTITUDE 3989.00 FEET MSL
 2 MAR. 79 0855 HRS MST
 ASCENSION NO. 111

UPPER AIR DATA
 0610020111
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TM) DEGREES	SPEED KNOTS	INDEX OF REFRACTION
3989.0	872.0	7.7	1.5	65.0	1078.4	653.8	0	0	1.000273
4000.0	871.6	7.7	1.5	65.0	1076.2	653.8			1.000273
4500.0	855.0	5.5	-1.1	67.2	1066.9	651.2			1.000267
5000.0	839.3	3.9	-2.0	71.1	1053.1	649.3			1.000263
5500.0	824.2	3.3	-3.6	67.9	1038.1	643.5			1.000257
6000.0	808.9	2.8	-5.1	62.7	1016.8	647.9			1.000250
6500.0	793.8	2.3	-6.4	57.6	1001.8	647.3			1.000244
7000.0	779.0	1.5	-7.3	53.7	986.3	646.2			1.000239
7500.0	764.3	0.2	-8.2	57.2	972.5	644.6			1.000235
8000.0	750.0	-1.1	-10.2	58.7	958.9	643.1			1.000231
8500.0	735.8	-1.8	-12.1	52.6	943.3	642.2			1.000225
9000.0	721.8	-2.6	-13.1	48.0	928.2	641.2			1.000219
9500.0	709.1	-3.7	-14.1	43.0	914.4	639.8			1.000215
10000.0	694.4	-4.9	-15.1	48.3	900.9	638.4			1.000208
10500.0	660.9	-6.2	-16.1	49.8	887.0	636.8			1.000204
11000.0	607.6	-7.5	-17.2	50.6	874.6	635.3			1.000201
11500.0	654.5	-8.8	-18.2	51.4	861.7	633.7			1.000197
12000.0	641.7	-10.1	-19.2	52.1	849.1	632.1			1.000194
12500.0	629.2	-11.4	-20.3	52.9	836.7	630.5			1.000190
13000.0	615.9	-12.7	-21.3	53.6	824.4	629.0			1.000187
13500.0	604.6	-14.0	-22.4	54.4	812.4	627.4			1.000184
14000.0	593.0	-15.3	-22.9	57.5	800.5	625.8			1.000181
14500.0	581.3	-16.5	-21.9	69.0	786.6	624.3			1.000179
15000.0	569.6	-17.6	-21.2	80.1	775.9	623.0			1.000177
15500.0	558.2	-18.7	-22.1	82.3	763.5	621.7			1.000174
16000.0	546.8	-19.8	-22.9	84.6	751.4	620.3			1.000170
16500.0	535.6	-21.0	-23.0	86.6	739.5	618.8			1.000167
17000.0	524.7	-23.2	-24.6	89.0	727.8	617.4			1.000165
17500.0	513.9	-24.5	-25.5	91.3	716.3	615.9			1.000162
18000.0	503.4	-25.0	-27.2	86.3	705.0	614.5			1.000158
18500.0	493.0	-26.6	-29.3	77.8	693.4	613.1			1.000155
19000.0	482.7	-27.6	-31.5	69.3	681.8	611.8			1.000152
19500.0	472.7	-28.7	-33.7	61.9	670.4	610.5			1.000149
20000.0	462.5	-30.9	-36.4	60.3	659.3	609.2			1.000144
20500.0	453.0	-31.3	-37.7	59.6	648.8	607.6			1.000141
21000.0	443.4	-32.6	-39.0	59.0	638.5	606.0			1.000139
21500.0	434.8	-33.9	-40.9	63.5	628.3	604.3			1.000137
22000.0	424.8	-35.2			618.3	602.7			1.000134
22500.0	415.6	-36.5			608.3	601.0			
23000.0	406.6				598.5	599.3			

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

STATION ALTITUDE 3989.00 FEET MSL
 2 MAR. 79 0855 HRS MST
 ASCENSION NO. 111

UPPER AIR DATA
 001002011.
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
43500.0	397.8	-37.9	56.1	560.8	597.0	204.8	37.2	1.000132
44000.0	389.0	-39.3	70.7	579.4	595.8	201.5	35.2	1.000130
44500.0	380.5	-40.7	75.3	570.1	594.0	201.2	33.1	1.000128
45000.0	372.1	-42.1	79.9	560.9	592.2	202.8	31.9	1.000126
45500.0	363.8	-43.0	72.7	550.7	591.0	205.1	31.1	1.000123
46000.0	355.7	-44.0	65.3	540.7	589.8	209.5	30.4	1.000121
46500.0	347.7	-45.0	57.8	530.8	588.5	213.2	29.9	1.000119
47000.0	339.9	-45.8	2.8**	520.6	587.5	222.6	30.4	1.000116
47500.0	332.3	-45.2		507.7	586.2	230.2	31.7	1.000113
48000.0	324.8	-44.7		495.3	585.0	233.3	34.6	1.000110
48500.0	317.5	-44.8		484.4	583.7	235.3	37.6	1.000108
49000.0	310.4	-44.9		473.7	582.0	235.4	40.3	1.000106
49500.0	303.4	-45.0		463.2	580.5	235.6	43.0	1.000103
50000.0	296.6	-45.2		453.2	580.2	236.0	45.7	1.000101
50500.0	289.9	-45.5		443.6	587.0	236.0	47.9	1.000099
51000.0	283.3	-45.9		434.3	587.3	235.3	49.3	1.000097
51500.0	277.0	-46.2		425.2	586.9	234.6	50.3	1.000095
52000.0	270.7	-46.7		416.5	586.2	233.4	49.2	1.000093
52500.0	264.5	-47.4		408.3	585.3	232.2	48.2	1.000091
53000.0	258.5	-48.1		400.2	584.4	231.4	48.3	1.000089
53500.0	252.6	-48.3		392.3	583.5	230.7	48.5	1.000087
54000.0	246.9	-49.2		384.1	582.9	230.4	50.5	1.000086
54500.0	241.2	-49.5		375.8	582.6	230.3	52.6	1.000084
55000.0	235.7	-49.8		367.7	582.2	231.1	52.5	1.000082
55500.0	230.3	-50.0		359.5	582.0	232.1	52.2	1.000080
56000.0	225.0	-49.2		350.6	580.1	234.9	51.1	1.000078
56500.0	219.9	-48.4		340.8	584.1	237.8	50.2	1.000076
57000.0	214.9	-48.0		332.4	584.6	239.8	49.6	1.000074
57500.0	210.0	-43.5		325.5	584.0	241.5	49.1	1.000072
58000.0	205.2	-48.9		318.8	583.3	241.0	48.3	1.000071
58500.0	200.5	-49.4		312.2	582.7	241.4	47.8	1.000070
59000.0	195.9	-49.7		305.4	582.3	239.9	48.4	1.000068
59500.0	191.4	-50.0		298.7	582.0	236.2	49.2	1.000067
40050.0	187.0	-50.2		292.2	581.6	230.1	50.6	1.000065
40500.0	182.7	-50.5		285.8	581.3	234.5	51.9	1.000064
41000.0	178.5	-50.8		279.0	581.0	233.8	52.6	1.000062
41500.0	174.4	-51.0		272.4	580.0	233.7	53.6	1.000061
42000.0	170.3	-51.3		267.5	580.3	234.4	55.0	1.000060
42500.0	166.4	-51.5		261.6	580.0	235.9	56.6	1.000058
43000.0	162.6	-51.8		255.9	575.0	238.2	58.6	1.000057

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

STATION ALTITUDE 3489.00 FEET MSL
 2 MAR. 79 0655 HRS MST
 ASCENSION NO. 111

UPPER AIR DATA
 0610020111
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND M/S	WIND DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
43500.0	156.8	-52.5		250.7	578.7	240.4	60.5	1.000056
44000.0	155.1	-53.2		245.7	577.7	242.9	62.0	1.000055
44500.0	151.5	-54.0		240.8	576.7	244.9	63.4	1.000054
45000.0	143.0	-54.4		235.7	576.2	240.0	64.0	1.000052
45500.0	144.5	-54.6		230.4	575.9	247.0	64.7	1.000051
46000.0	141.1	-54.5		224.9	576.1	247.4	64.6	1.000050
46500.0	137.6	-54.4		219.5	576.2	247.8	64.6	1.000049
47000.0	134.6	-55.0		215.0	575.3	248.3	64.1	1.000048
47500.0	131.4	-55.7		210.6	574.5	248.8	63.6	1.000047
48000.0	128.4	-53.9		205.9	576.9	249.5	62.3	1.000045
48500.0	125.4	-53.9		199.2	576.9	250.2	60.7	1.000044
49000.0	122.4	-54.4		194.9	576.3	251.3	58.2	1.000043
49500.0	119.5	-54.8		190.7	575.8	253.1	54.2	1.000042
50000.0	116.7	-55.3		186.6	575.0	255.1	50.2	1.000042
50500.0	114.0	-55.8		182.8	574.4	257.5	45.4	1.000041
51000.0	111.3	-56.2		178.7	573.8	260.4	40.7	1.000040
51500.0	108.7	-56.7		174.9	573.1	261.1	38.1	1.000039
52000.0	106.1	-57.2		171.2	572.5	259.9	36.9	1.000038
52500.0	103.6	-57.7		167.5	571.9	257.0	37.4	1.000037
53000.0	101.2	-59.2		164.7	569.8	253.3	39.4	1.000037
53500.0	98.7	-60.1		161.5	568.6	251.1	41.2	1.000036
54000.0	96.4	-60.0		157.5	568.7	249.8	42.8	1.000035
54500.0	94.1	-58.5		152.7	570.8	248.9	44.6	1.000034
55000.0	91.8	-58.2		148.8	571.1	248.3	46.5	1.000033
55500.0	89.6	-58.3		145.3	571.1	249.6	46.2	1.000032
56000.0	87.5	-58.3		141.9	571.0	249.6	43.9	1.000032
56500.0	85.4	-58.4		138.6	570.9	251.5	39.7	1.000031
57000.0	83.4	-58.1		135.1	571.4	253.2	32.9	1.000030
57500.0	81.4	-56.9		131.2	572.9	258.1	26.9	1.000029
58000.0	79.5	-57.2		128.2	572.0	256.0	22.4	1.000029
58500.0	77.6	-57.6		125.4	572.0	252.2	18.6	1.000028
59000.0	75.8	-53.0		122.6	571.5	243.1	18.2	1.000027
59500.0	74.0	-58.4		120.0	570.9	237.9	17.3	1.000027
60000.0	72.2	-53.8		117.3	570.4	239.3	16.9	1.000026
60500.0	70.5	-59.2		114.0	569.9	240.8	16.1	1.000026
61000.0	68.8	-59.8		112.3	569.0	244.8	15.1	1.000025
61500.0	67.1	-60.5		110.0	568.1	249.9	14.2	1.000024
62000.0	65.5	-61.2		107.7	567.2	251.6	14.5	1.000024
62500.0	63.9	-61.9		105.4	566.3	251.6	15.4	1.000023
63000.0	62.4	-62.6		103.2	565.3	249.3	16.0	1.000023

STATION ALTITUDE 3989.00 FEET MSL
 2 MAR. 79 0855 HRS MST
 ASCENSION NO. 111

UPPER AIR DATA
 0610020111
 WHITE SANDS

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREECES	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) DEGREES	SPEED KNOTS	INDEX OF REFRACTION
03500.0	60.9	-63.3			101.1	564.4	245.2	16.5	1.000023
04000.0	59.4	-62.7			98.3	563.2	241.3	17.1	1.000022
04500.0	58.0	-60.9			95.2	567.5	237.5	16.3	1.000021
05000.0	56.6	-60.4			92.7	566.2	233.4	15.7	1.000021
05500.0	55.2	-60.8			90.6	567.7	231.0	14.9	1.000020
06000.0	53.9	-61.2			88.6	567.2	230.6	14.0	1.000020
06500.0	52.6	-61.5			86.0	569.7	230.2	13.1	1.000019
07000.0	51.3	-61.9			84.6	566.2	230.8	11.1	1.000019
07500.0	50.1	-62.3			82.7	565.7	231.8	9.1	1.000018
08000.0	48.9	-61.9			80.6	566.2	232.6	7.5	1.000018
08500.0	47.7	-61.5			78.5	569.6	232.9	6.5	1.000017
09000.0	46.6	-61.0			76.5	567.4	234.0	5.8	1.000017
09500.0	45.4	-60.6			74.5	565.0	238.9	7.4	1.000017
70000.0	44.3	-60.2			72.5	566.6	242.0	9.1	1.000016
70500.0	43.3	-59.7			70.0	569.2	246.4	11.2	1.000016
71000.0	42.2	-59.8			69.0	569.1	249.9	13.4	1.000015
71500.0	41.2	-60.1			67.4	566.7	253.5	14.8	1.000015
72000.0	40.2	-60.3			65.9	566.4	257.5	15.5	1.000015
72500.0	39.3	-60.6			64.4	566.0	261.7	16.2	1.000014
73000.0	38.3	-60.8			62.9	567.7	267.4	16.6	1.000014
73500.0	37.4	-61.1			61.5	567.3	272.7	17.2	1.000014
74000.0	36.5	-61.0			60.0	567.5	278.6	16.7	1.000013
74500.0	35.6	-60.9			58.5	567.0	284.8	16.4	1.000013
75000.0	34.8	-60.7			57.0	567.8	289.2	14.1	1.000013
75500.0	34.0	-60.6			55.6	567.9	293.0	10.8	1.000012
76000.0	33.1	-60.5			54.3	568.1	274.8	8.8	1.000012
76500.0	32.3	-60.4			52.9	568.3	251.1	10.9	1.000012
77000.0	31.6	-60.3			51.0	568.4	236.6	14.1	1.000012
77500.0	30.8	-60.1			50.4	568.6	237.2	19.0	1.000011
78000.0	30.1	-60.0			49.1	568.6	236.8	24.2	1.000011
78500.0	29.4	-59.7			47.9	569.1	240.2	27.8	1.000011
79000.0	28.7	-59.5			46.7	569.5	241.8	28.8	1.000010
79500.0	28.0	-59.2			45.6	569.8	243.3	29.9	1.000010
80000.0	27.3	-59.9			44.4	570.2	242.1	29.5	1.000010
80500.0	26.7	-58.6			43.3	570.6	240.5	29.0	1.000010
81000.0	26.0	-58.4			42.2	571.0	238.1	29.4	1.000009
81500.0	25.4	-58.1			41.2	571.3	234.6	31.6	1.000009
82000.0	24.8	-57.8			40.2	571.7	231.6	33.8	1.000009
82500.0	24.2	-57.5			39.2	572.1	230.2	36.4	1.000009
83000.0	23.7	-57.3			38.2	572.4	229.1	39.0	1.000008

UPPER AIR DATA
 0610020111
 WHITE SANDS

STATION ALTITUDE 3439.00 FEET MSL
 2 MAR. 79 0855 HRS MST
 ASCENSION NO. 111

GEOMETRIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

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	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
03500.0	60.9	-63.3		101.1	564.4	245.2	16.5	1.000023	
04000.0	59.4	-62.7		98.3	565.2	241.3	17.1	1.000022	
04500.0	58.0	-60.9		95.2	567.5	237.5	16.3	1.000021	
05000.0	56.5	-60.4		92.7	568.2	233.4	15.7	1.000021	
05500.0	55.2	-60.8		90.6	567.7	231.0	14.9	1.000020	
06000.0	53.9	-61.2		88.6	567.2	230.6	14.0	1.000020	
06500.0	52.6	-61.5		86.6	566.7	230.2	13.1	1.000019	
07000.0	51.3	-61.9		84.6	566.2	230.8	11.1	1.000019	
07500.0	50.1	-62.3		82.7	565.7	231.8	9.1	1.000018	
08000.0	48.9	-61.9		80.8	565.2	232.6	7.5	1.000018	
08500.0	47.7	-61.5		78.5	563.8	232.9	6.5	1.000017	
09000.0	46.6	-61.0		76.5	567.4	234.0	5.8	1.000017	
09500.0	45.4	-60.6		74.5	568.0	238.9	7.4	1.000017	
70000.0	44.3	-60.2		72.5	568.6	242.0	9.1	1.000016	
70500.0	43.3	-59.7		70.0	569.2	246.4	11.2	1.000016	
71000.0	42.2	-59.8		69.0	569.1	249.9	13.4	1.000015	
71500.0	41.2	-60.1		67.4	566.7	253.5	14.8	1.000015	
72000.0	40.2	-60.3		65.9	566.4	257.5	15.5	1.000015	
72500.0	39.3	-60.6		64.4	566.0	261.7	16.2	1.000014	
73000.0	38.3	-60.8		62.9	567.7	267.4	16.6	1.000014	
73500.0	37.4	-61.1		61.5	567.3	272.7	17.2	1.000014	
74000.0	36.5	-61.0		60.0	567.5	278.6	16.7	1.000013	
74500.0	35.6	-60.9		58.5	567.8	284.8	16.4	1.000013	
75000.0	34.3	-60.7		57.0	567.8	286.2	14.1	1.000013	
75500.0	34.0	-60.6		55.6	567.9	285.0	10.8	1.000012	
76000.0	33.1	-60.5		54.3	563.1	274.8	8.8	1.000012	
76500.0	32.3	-60.4		52.9	568.3	251.1	10.9	1.000012	
77000.0	31.6	-60.3		51.0	568.4	236.6	14.1	1.000012	
77500.0	30.8	-60.1		50.4	568.0	237.2	19.0	1.000011	
78000.0	30.1	-60.0		49.1	568.8	238.8	24.2	1.000011	
78500.0	29.4	-59.7		47.9	569.1	240.2	27.8	1.000011	
79000.0	28.7	-59.5		46.7	569.5	241.8	28.8	1.000010	
79500.0	28.0	-59.2		45.6	569.8	243.3	29.9	1.000010	
80000.0	27.3	-58.9		44.4	570.2	242.1	29.5	1.000010	
80500.0	26.7	-58.6		43.3	570.6	240.5	29.0	1.000010	
81000.0	26.0	-58.3		42.2	571.0	238.1	29.4	1.000009	
81500.0	25.4	-58.1		41.2	571.3	234.6	31.6	1.000009	
82000.0	24.8	-57.8		40.2	571.7	231.6	33.8	1.000009	
82500.0	24.2	-57.5		39.2	572.1	230.2	36.4	1.000009	
83000.0	23.7	-57.3		38.2	572.4	229.1	39.0	1.000008	

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GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

UPPER AIR DATA
0610020111
WHITE SANDS

STATION ALTITUDE 3889.00 FEET MSL
2 MAR. 79
ASCENSION NO. 111
0855 HRS MST

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
3350.0	23.1	-57.0			37.2	574.6	226.1	40.8	1.000008
3400.0	22.6	-56.7			36.3	573.2	227.0	41.3	1.000008
3450.0	22.0	-56.4			35.4	573.5	225.9	41.7	1.000008
3500.0	21.5	-56.1			34.5	573.9	225.8	42.6	1.000008
3550.0	21.0	-55.9			33.7	574.3	225.6	43.6	1.000007
3600.0	20.5	-55.6			32.8	574.6	225.1	44.4	1.000007
3650.0	20.0	-55.3			32.0	575.0	227.0	45.0	1.000007
3700.0	19.6	-54.6			31.2	576.0	227.4	45.6	1.000007
3750.0	19.1	-53.8			30.4	576.9	228.1	45.9	1.000007
3800.0	18.7	-53.1			29.6	577.9	228.1	46.1	1.000007
3850.0	18.3	-52.4			28.6	578.9	228.1	46.2	1.000006
3900.0	17.9	-51.6			26.1	579.8	228.5	48.7	1.000006
3950.0	17.5	-50.9			27.4	580.8	228.6	51.5	1.000006
4000.0	17.1	-50.1			26.6	581.8	229.1	54.3	1.000006
4050.0	16.7	-49.4			26.0	582.7	229.4	58.0	1.000006
4100.0	16.3	-48.7			25.3	583.7	229.6	61.6	1.000006
4150.0	15.9	-47.9			24.6	584.7	229.6	64.5	1.000005
4200.0	15.5	-47.2			24.0	585.6	229.7	63.8	1.000005
4250.0	15.2	-46.4			23.4	586.6	227.7	63.1	1.000005
4300.0	14.9	-45.7			22.8	587.5	226.9	62.2	1.000005
4350.0	14.5	-45.0			22.2	588.5	226.7	60.7	1.000005
4400.0	14.2	-44.2			21.6	589.4	226.4	59.3	1.000005
4450.0	13.9	-43.5			21.1	590.4	226.2	58.8	1.000005
4500.0	13.6	-42.7			20.5	591.3	226.1	59.3	1.000005
4550.0	13.3	-42.0			20.0	592.3	226.1	59.7	1.000004
4600.0	13.0	-41.3			19.5	593.2			1.000004
4650.0	12.7	-40.5			19.0	594.2			1.000004
4700.0	12.4	-39.6			18.5	595.1			1.000004
4750.0	12.1	-39.0			18.0	596.1			1.000004

STATION ALTITUDE 3989.00 FEET MSL
 2 MAR. 79 0655 HRS MST
 ASCENSION NO. 111

MRN SIGNIFICANT LEVEL DATA
 0610020111
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOCENTRAL ALTITUDE METERS	DIRECTION LEG (TR)	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			AIR DEG C		
2957.	9999.**	9999.**	-9999.**	-9999.**	99	-39.0	1.210+1	
2625.	227.	23.	16.	17.	99	-55.3	2.000+1	
2369.	239.	13.	7.	11.	99	-60.0	3.000+1	
2232.	273.	9.	-0.	9.	99	-61.1	3.740+1	
2145.	247.	6.	2.	6.	99	-59.6	4.300+1	
2051.	232.	5.	3.	4.	99	-62.3	5.000+1	
1965.	236.	6.	5.	7.	99	-60.2	5.740+1	
1936.	243.	9.	4.	6.	99	-63.6	6.020+1	
1842.	242.	8.	4.	7.	99	-59.3	7.000+1	
1749.	258.	14.	3.	13.	99	-56.8	8.120+1	
1727.	254.	16.	5.	17.	99	-58.4	8.400+1	
1659.	249.	23.	6.	22.	99	-58.2	9.360+1	
1638.	250.	22.	7.	21.	99	-60.3	9.680+1	
1618.	252.	21.	6.	20.	99	-60.0	1.000+2	

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

STATION ALTITUDE 3939.00 FEET MSL
 2 MAR. 79 0355 HRS MST
 ASCENSION NO. 111

MANDATORY LEVELS
 0610020111
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREE	DEWPOINT DEGREE	PERCENT	DIRECTION DEGREE(TN)	SPEED KNOTS
850.0	4674.	4.7	-7	60.	9999.0	9999.0XX
800.0	6209.	2.5	-4.5	60.	9999.0	9999.0XX
750.0	7924.	-1.1	-8.2	59.	9999.0	9999.0XX
700.0	9789.	-4.4	-13.7	46.	9999.0	9999.0XX
650.0	11687.	-9.3	-17.5	51.	227.3	43.9
600.0	13699.	-14.5	-21.7	54.	224.0	44.0
550.0	15841.	-19.5	-21.6	82.	217.7	44.0
500.0	18144.	-24.9	-25.8	92.	204.9	45.2
450.0	20629.	-30.4	-35.4	61.	203.2	43.3
400.0	23337.	-37.5	-41.0	65.	202.1	37.6
350.0	26311.	-44.7	-49.2	60.	213.4	30.0
300.0	29690.	-45.0			235.8	44.2
250.0	33650.	-49.1			230.3	49.3
200.0	38483.	-49.5			241.3	47.9
175.0	41323.	-51.0			233.9	53.4
150.0	44590.	-54.3			245.3	63.6
125.0	48420.	-53.9			250.3	60.6
100.0	53077.	-60.0			251.8	40.2
90.0	57079.	-57.1			250.8	23.9
70.0	60438.	-59.3			241.4	15.9
60.0	63373.	-63.4			243.1	10.8
50.0	67284.	-62.3			231.3	9.1
40.0	71941.	-60.4			258.2	15.7
30.0	77717.	-60.0			238.8	24.3
25.0	81470.	-57.9			232.3	32.9
20.0	86114.	-53.3			220.9	45.0
15.0	92260.	-40.0			227.3	62.9

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

STATION ALTITUDE 3939.00 FEET MSL
 2 MAR. 79 0955 HRS MST
 ASCENSION NO. 111

MRN MANDATORY LEVELS
 0010020111
 WHITE SANDS

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TN)	SPEED MPS	WIND DATA		DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
			N-S MPS	E-W MPS		AIR DEG C		
2812.	227.	34.	22.	24.	99	-46.0	1.500+1	
2825.	227.	23.	16.	17.	99	-55.3	2.000+1	
2483.	233.	17.	10.	13.	99	-57.9	2.500+1	
2369.	239.	12.	6.	11.	99	-60.0	3.000+1	
2190.	258.	8.	2.	8.	99	-60.4	4.000+1	
2051.	232.	9.	3.	4.	99	-62.3	5.000+1	
1936.	243.	9.	4.	6.	99	-63.4	6.000+1	
1842.	241.	8.	4.	7.	99	-59.3	7.000+1	
1758.	257.	12.	3.	12.	99	-57.1	8.000+1	
1616.	252.	21.	6.	20.	99	-60.0	1.000+2	
1476.	250.	31.	11.	29.	99	-53.9	1.250+2	
1355.	245.	32.	14.	30.	99	-54.3	1.500+2	
1260.	234.	27.	12.	22.	99	-51.0	1.750+2	
1172.	241.	25.	12.	22.	99	-49.5	2.000+2	
1026.	231.	25.	16.	20.	99	-49.1	2.500+2	
905.	236.	13.	13.	19.	99	-45.0	3.000+2	
802.	213.	15.	13.	19.	05	-44.7	3.500+2	
711.	202.	19.	16.	7.	04	-37.5	4.000+2	
629.	203.	22.	20.	9.	05	-30.4	4.500+2	
553.	205.	23.	21.	10.	01	-24.9	5.000+2	
483.	218.	23.	18.	14.	02	-19.5	5.500+2	
410.	224.	23.	16.	16.	07	-14.5	6.000+2	
356.	228.	23.	15.	17.	08	-9.3	6.500+2	
296.	9999.**	9999.**	-9999.**	-9999.**	09	-4.4	7.000+2	
244.	9999.**	9999.**	-9999.**	-9999.**	07	-1.1	7.500+2	
192.	9999.**	9999.**	-9999.**	-9999.**	07	2.5	8.000+2	
142.	9999.**	9999.**	-9999.**	-9999.**	05	4.7	8.500+2	

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

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STATION ALTITUDE 3951.40 FEET MSL
 2 MAR. 79 0800 HRS MST
 ASCENSION NO. 22

SIGNIFICANT LEVEL DATA
 0610050022
 APACHE

GEODEIC COORDINATES
 32.62700 LAT DEG
 106.39352 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
671.5	3951.4	6.1	73.0
650.0	4522.4	4.5	76.0
795.8	6375.3	1.1	86.0
746.0	8075.5	-2.2	94.0
700.0	9727.0	-6.0	99.0
642.4	11922.0	-10.1	99.0
593.4	13709.6	-13.5	86.0
556.0	15522.8	-18.0	95.0
500.0	18114.1	-23.7	84.0
425.4	21928.3	-32.7	76.0
400.0	23341.9	-37.1	53.0
351.2	26256.8	-44.3	57.0
326.4	27637.6	-48.5	
300.0	29693.0	-46.2	
250.0	33663.8	-48.5	
200.0	38400.2	-49.8	
177.2	41090.6	-50.6	
169.0	42105.7	-51.8	
150.0	44643.1	-52.9	
142.2	45734.0	-52.8	
135.0	46835.0	-54.7	
131.4	47437.2	-53.2	
111.2	50900.1	-58.6	
108.0	51506.1	-58.1	
100.0	53156.3	-60.4	
89.8	55339.4	-58.2	
81.0	57522.4	-60.4	
75.6	58933.2	-58.4	
70.0	60523.2	-60.5	
50.0	67440.0	-61.0	
45.6	69341.0	-56.8	
37.4	73429.5	-61.4	
30.0	77931.5	-60.4	
26.6	80433.1	-61.7	
20.0	86374.0	-54.7	
15.4	91937.3	-51.0	
12.0	97473.2	-39.5	

STATION ALTITUDE 3951.40 FEET MSL
 2 MAR. 79 0800 HRS MST
 ASCENSION NO. 22

UPPER AIR DATA
 06100500z2
 APACHE

GEODETIC COORDINATES
 32.62700 LAT DEG
 106.39352 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND MNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
3951.4	871.5	6.1	1.6	73.0	1084.0	652.0	240.0	16.1	1.000275
4000.0	859.9	6.0	1.5	73.2	1082.5	651.9	239.9	16.3	1.000274
4500.0	833.9	4.8	.8	75.5	1057.2	650.4	239.2	17.8	1.000270
5000.0	838.0	3.8	.3	73.2	1051.3	649.2	238.7	19.3	1.000265
5500.0	822.4	2.8	-.1	81.0	1035.4	643.1	238.2	20.8	1.000261
6000.0	807.1	1.8	-.6	83.9	1019.7	640.9	237.8	22.1	1.000257
6500.0	792.1	.9	-1.1	86.6	1004.3	643.7	238.3	21.1	1.000252
7000.0	777.1	-.1	-1.7	88.9	988.9	644.6	236.3	22.7	1.000248
7500.0	762.5	-1.1	-2.3	91.3	973.8	643.4	230.2	33.8	1.000243
8000.0	748.1	-2.1	-2.9	93.6	959.0	642.2	225.9	41.1	1.000239
8500.0	733.9	-3.2	-3.8	95.3	944.7	640.9	221.5	45.1	1.000234
9000.0	719.9	-4.3	-4.8	96.8	930.8	639.5	217.7	41.2	1.000230
9500.0	706.2	-5.5	-5.7	98.3	917.1	638.1	213.4	36.0	1.000225
10000.0	692.6	-6.5	-6.6	99.0	903.0	636.8	214.9	35.3	1.000221
10500.0	679.2	-7.4	-7.6	99.0	888.7	635.6	210.9	35.3	1.000217
11000.0	666.0	-8.4	-8.5	99.0	874.7	634.5	219.6	36.3	1.000212
11500.0	653.1	-9.3	-9.4	99.0	860.8	633.3	222.2	37.7	1.000208
12000.0	640.4	-10.2	-10.4	98.4	847.2	632.2	224.6	39.3	1.000204
12500.0	627.8	-11.2	-11.9	94.8	833.7	631.0	229.5	38.8	1.000199
13000.0	615.5	-12.2	-13.3	91.2	820.4	629.8	228.0	37.9	1.000195
13500.0	603.4	-13.1	-14.7	87.5	807.3	629.6	227.3	36.6	1.000191
14000.0	591.4	-14.2	-15.8	87.4	794.8	627.2	226.2	35.2	1.000187
14500.0	579.6	-15.5	-16.7	89.9	782.7	625.7	221.9	36.1	1.000184
15000.0	568.1	-16.7	-17.6	92.4	770.8	624.2	217.4	37.5	1.000181
15500.0	556.7	-17.9	-18.5	94.8	759.2	622.7	216.2	38.9	1.000177
16000.0	545.4	-19.0	-19.9	93.0	747.1	621.5	215.5	40.3	1.000174
16500.0	534.3	-20.1	-21.2	90.9	735.1	619.9	214.2	39.6	1.000170
17000.0	523.4	-21.2	-22.6	88.7	723.3	618.5	212.7	38.0	1.000167
17500.0	512.8	-22.3	-24.0	85.6	711.6	617.2	210.8	37.2	1.000164
18000.0	502.4	-23.4	-25.3	84.5	700.4	615.8	209.6	36.9	1.000161
18500.0	491.9	-24.6	-26.6	83.2	689.1	614.3	207.2	36.4	1.000158
19000.0	481.6	-25.8	-27.9	82.1	677.9	612.9	205.8	35.6	1.000155
19500.0	471.5	-27.0	-29.2	81.1	666.9	611.4	205.8	34.8	1.000152
20000.0	461.6	-28.1	-30.5	80.0	656.1	609.9	204.2	33.9	1.000149
20500.0	451.9	-29.3	-31.8	79.0	645.5	603.4	203.4	34.3	1.000146
21000.0	442.5	-30.5	-33.1	77.9	635.1	600.9	203.6	36.3	1.000144
21500.0	433.2	-31.7	-34.4	76.9	624.8	600.5	204.1	39.7	1.000141
22000.0	424.1	-32.9	-35.8	74.8	614.8	603.9	205.0	41.9	1.000139
22500.0	414.9	-34.5	-38.5	66.7	605.5	601.9	203.7	45.1	1.000136
23000.0	406.0	-36.0	-41.2	58.6	596.4	599.9	205.8	47.8	1.000134

STATION ALTITUDE 3951.40 FEET MSL
 2 MAR. 79 0600 HRS MST
 ASCENSION NO. 22

UPPER AIR DATA
 0610050022
 APACHE

GEODETIC COORDINATES
 32.62700 LAT DEG
 106.39352 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED SOUND KNOTS	WIND DIRECTION DEGREES(TN)	WIND SPEED KNOTS	INJEX OF REFRACTION
23500.0	397.2	-37.5	-43.5	53.2	587.1	593.1	203.6	50.6	1.000132
24000.0	388.4	-38.7	-44.5	53.9	577.1	596.5	203.7	51.0	1.000129
24500.0	379.8	-40.0	-45.6	54.6	567.4	594.9	203.5	50.9	1.000127
25000.0	371.5	-41.2	-46.6	55.3	557.6	593.4	204.5	50.0	1.000125
25500.0	363.3	-42.4	-47.7	56.0	546.5	591.8	202.9	48.6	1.000123
26000.0	355.2	-43.7	-48.7	56.6	539.2	590.2	201.8	47.1	1.000121
26500.0	347.3	-44.9	-51.3	48.3**	530.1	588.5	201.4	45.2	1.000118
27000.0	339.5	-46.2	-56.3	30.5**	521.2	586.8	201.2	42.6	1.000116
27500.0	331.8	-47.6	-64.1	12.7**	512.4	585.1	203.2	33.5	1.000114
28000.0	324.3	-48.3			502.4	584.1	207.3	24.9	1.000112
28500.0	316.9	-47.7			489.7	585.0	221.2	24.5	1.000109
29000.0	309.7	-47.1			477.2	585.8	234.9	25.4	1.000106
29500.0	302.7	-46.4			465.1	586.6	236.6	34.3	1.000104
30000.0	295.8	-45.4			454.4	586.7	237.6	43.3	1.000101
30500.0	289.1	-44.7			444.7	586.3	236.4	47.2	1.000099
31000.0	282.5	-47.0			435.1	585.9	234.7	49.8	1.000097
31500.0	276.1	-47.2			423.8	585.5	232.9	51.8	1.000095
32000.0	269.9	-47.5			416.7	585.2	230.7	53.1	1.000093
32500.0	263.7	-47.8			407.7	584.3	223.7	54.4	1.000091
33000.0	257.7	-48.1			399.0	584.4	226.9	56.6	1.000089
33500.0	251.9	-48.4			390.4	584.0	225.3	58.7	1.000087
34000.0	246.1	-48.6			381.6	583.6	225.2	57.2	1.000085
34500.0	240.5	-48.7			373.3	583.6	225.5	54.4	1.000083
35000.0	235.0	-48.9			365.0	583.4	226.6	50.4	1.000081
35500.0	229.6	-49.0			356.9	583.3	228.5	45.7	1.000079
36000.0	224.4	-49.1			348.9	583.1	230.6	43.1	1.000078
36500.0	219.3	-49.3			341.2	582.9	232.5	43.1	1.000076
37000.0	214.2	-49.4			333.6	582.7	233.8	43.6	1.000074
37500.0	209.3	-49.5			326.1	582.6	233.1	45.1	1.000073
38000.0	204.6	-49.7			318.9	582.4	232.4	46.6	1.000071
38500.0	199.9	-49.8			311.6	582.2	230.7	48.9	1.000069
39000.0	195.3	-50.0			304.6	582.0	229.2	51.0	1.000068
39500.0	190.8	-50.1			296.0	581.8	228.4	52.2	1.000066
40000.0	185.4	-50.3			291.4	581.6	227.7	53.2	1.000065
40500.0	182.1	-50.4			284.9	581.4	227.6	52.6	1.000063
41000.0	177.9	-50.6			276.5	581.2	227.4	52.0	1.000062
41500.0	173.8	-51.1			272.7	580.5	223.9	50.8	1.000061
42000.0	169.8	-51.7			267.1	579.6	233.3	49.6	1.000060
42500.0	165.9	-52.0			261.3	579.4	233.0	49.0	1.000058
43000.0	162.1	-52.2			255.5	579.1	244.2	49.5	1.000057

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

STATION ALTITUDE 3951.40 FEET MSL
 2 MAR. 79
 ASCENSION NO. 22

UPPER AIR DATA
 0610050022
 APACHE

GEODETIC COORDINATES
 32.62700 LAT DEG
 106.39352 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
							DIRECTION DEGREES(TN)	SPEED KNOTS	
43500.0	158.3	-52.4			249.8	578.8	250.1	50.5	1.000056
44000.0	154.6	-52.6			244.3	578.5	253.6	51.5	1.000054
44500.0	151.0	-52.6			238.8	578.3	257.0	52.7	1.000053
45000.0	147.5	-52.9			233.3	578.2	258.5	53.0	1.000052
45500.0	144.1	-52.8			227.9	578.3	258.7	52.7	1.000051
46000.0	140.8	-53.2			222.9	577.8	258.8	52.3	1.000050
46500.0	137.5	-54.0			218.6	578.7	258.3	51.0	1.000049
47000.0	134.3	-54.4			213.8	578.2	257.6	49.8	1.000048
47500.0	131.1	-53.3			207.8	577.7	257.2	48.3	1.000046
48000.0	128.0	-54.0			203.6	578.7	257.4	46.1	1.000045
48500.0	125.0	-54.8			199.5	575.7	257.5	44.0	1.000044
49000.0	122.1	-55.6			195.5	574.6	258.7	43.1	1.000044
49500.0	119.2	-56.3			191.6	573.6	254.9	43.5	1.000043
50000.0	116.4	-57.1			187.7	572.6	253.1	43.8	1.000042
50500.0	113.7	-57.9			183.9	571.6	251.0	44.9	1.000041
51000.0	111.0	-58.6			180.2	570.7	248.9	46.5	1.000040
51500.0	108.3	-58.2			175.6	571.2	246.8	48.2	1.000039
52000.0	105.8	-58.7			171.6	570.5	247.8	44.0	1.000038
52500.0	103.2	-59.5			166.3	569.5	249.5	39.2	1.000037
53000.0	100.8	-60.2			164.6	568.5	251.6	34.7	1.000037
53500.0	98.4	-60.1			160.8	569.7	254.5	30.4	1.000036
54000.0	96.0	-59.6			156.6	569.4	257.1	27.7	1.000035
54500.0	93.7	-59.1			152.5	570.0	257.1	28.4	1.000034
55000.0	91.5	-58.6			148.5	570.7	257.1	29.0	1.000033
55500.0	89.3	-58.3			144.8	571.0	251.8	32.5	1.000032
56000.0	87.1	-58.8			141.7	570.3	247.0	36.6	1.000032
56500.0	85.1	-59.4			138.6	569.6	244.4	39.5	1.000031
57000.0	83.0	-59.9			135.6	568.9	243.7	40.5	1.000030
57500.0	81.0	-60.4			132.7	568.3	243.1	41.6	1.000030
58000.0	79.1	-59.7			129.1	569.2	243.2	34.4	1.000029
58500.0	77.2	-59.0			125.6	570.1	248.4	27.2	1.000028
59000.0	75.4	-58.5			122.3	570.8	252.5	20.8	1.000027
59500.0	73.6	-59.2			119.8	569.9	249.8	18.4	1.000027
60000.0	71.8	-59.9			117.3	568.9	248.2	16.0	1.000026
60500.0	70.1	-60.6			114.9	568.0	241.8	15.2	1.000026
61000.0	68.4	-60.5			112.1	567.9	238.2	17.4	1.000025
61500.0	66.8	-60.7			109.5	567.9	235.5	19.7	1.000025
62000.0	65.2	-60.7			106.8	567.9	233.7	20.3	1.000024
62500.0	63.6	-60.7			104.3	567.6	232.2	19.1	1.000023
63000.0	62.1	-60.7			101.8	567.6	230.6	18.0	1.000023

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STATION ALTITUDE 3951.40 FEET MSL
 2 MAR. 79 0800 HRS MST
 ASCENSION 110. 22

UPPER AIR DATA
 0610050022
 APACHE

GEODETIC COORDINATES
 32.62700 LAT DEG
 106.39352 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
63500.0	60.6	-60.8		99.4	567.7	231.4	16.9	1.000022
64000.0	59.1	-60.8		97.0	567.7	235.7	15.9	1.000022
64500.0	57.7	-60.8		94.7	567.7	240.5	15.1	1.000021
65000.0	56.3	-60.9		92.4	567.6	245.3	14.4	1.000021
65500.0	55.0	-60.9		90.2	567.6	249.7	13.9	1.000020
66000.0	53.6	-60.9		88.0	567.5	254.5	13.5	1.000020
66500.0	52.3	-60.9		85.9	567.5	257.5	13.1	1.000019
67000.0	51.1	-61.0		83.9	567.5	256.8	12.8	1.000019
67500.0	49.9	-60.9		81.6	567.5	256.2	12.5	1.000018
68000.0	46.7	-60.4		79.7	563.3	250.1	12.3	1.000018
68500.0	47.5	-59.8		77.5	569.1	257.7	12.3	1.000017
69000.0	46.4	-59.2		75.5	569.8	259.3	12.4	1.000017
69500.0	45.2	-58.9		73.6	570.2	260.6	12.4	1.000016
70000.0	44.2	-59.2		71.9	569.8	260.1	12.5	1.000016
70500.0	43.1	-59.5		70.3	569.4	259.7	12.7	1.000016
71000.0	42.1	-59.9		68.7	569.0	259.5	12.7	1.000015
71500.0	41.1	-60.2		67.2	566.5	262.2	11.0	1.000015
72000.0	40.1	-60.5		65.7	563.1	265.8	9.4	1.000015
72500.0	39.1	-60.8		64.2	567.7	270.9	7.8	1.000014
73000.0	38.2	-61.1		62.7	567.3	271.9	7.4	1.000014
73500.0	37.3	-61.4		61.3	566.9	272.6	7.2	1.000014
74000.0	36.4	-61.3		59.8	567.1	273.3	6.9	1.000013
74500.0	35.5	-61.2		58.3	567.2	261.6	8.8	1.000013
75000.0	34.6	-61.1		56.9	567.4	252.1	11.9	1.000013
75500.0	33.8	-60.9		55.5	567.5	246.6	15.3	1.000012
76000.0	33.0	-60.8		54.2	567.7	243.3	18.4	1.000012
76500.0	32.2	-60.7		52.6	567.8	241.3	21.3	1.000012
77000.0	31.4	-60.6		51.5	568.0	239.8	24.3	1.000011
77500.0	30.7	-60.5		50.3	568.1	239.1	26.7	1.000011
78000.0	29.9	-60.4		49.0	568.2	240.1	27.7	1.000011
78500.0	29.2	-60.7		47.9	567.9	241.0	28.6	1.000011
79000.0	28.5	-60.9		46.8	567.5	241.9	29.7	1.000010
79500.0	27.8	-61.2		45.6	567.2	245.0	28.3	1.000010
80000.0	27.2	-61.5		44.7	566.8	248.3	27.0	1.000010
80500.0	26.5	-61.6		43.7	566.6	252.0	25.8	1.000010
81000.0	25.9	-61.0		42.5	567.4	251.5	27.3	1.000009
81500.0	25.3	-60.4		41.4	568.2	250.1	29.5	1.000009
82000.0	24.7	-59.9		40.3	569.0	248.9	31.8	1.000009
82500.0	24.1	-59.3		39.2	569.8	246.3	34.4	1.000009
83000.0	23.5	-58.7		38.2	570.5	241.6	37.7	1.000008

STATION ALTITUDE 3951.40 FEET MSL
 2 MAR. 79 0800 HRS MST
 ASCENSION 10. 22

UPPER AIR DATA
 0610050022
 APACHE

GEODETIC COORDINATES
 32.62700 LAT DEG
 106.39352 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES(TN)	WIND SPEED KNOTS	INEX OF REFRACTION
83500.0	23.0	-58.1			37.2	574.3	237.6	41.3	1.000008
84000.0	22.4	-57.5			36.2	572.1	234.3	45.0	1.000008
84500.0	21.9	-56.9			33.3	572.9	232.7	45.4	1.000008
85000.0	21.4	-56.3			34.3	573.7	231.3	45.2	1.000008
85500.0	20.9	-55.7			33.4	574.4	229.8	45.1	1.000007
86000.0	20.4	-55.1			32.5	575.2	229.3	45.0	1.000007
86500.0	19.9	-54.6			31.7	575.9	230.0	45.0	1.000007
87000.0	19.4	-54.3			30.9	576.3	230.7	45.0	1.000007
87500.0	19.0	-54.0			30.2	576.8	231.4	44.9	1.000007
88000.0	18.5	-53.6			29.4	577.2	231.5	45.8	1.000007
88500.0	18.1	-53.3			28.7	577.7	231.5	46.8	1.000006
89000.0	17.7	-53.0			28.0	578.1	231.5	47.7	1.000006
89500.0	17.3	-52.6			27.3	578.5	231.5	48.6	1.000006
90000.0	16.9	-52.3			26.6	579.0	231.5	49.5	1.000006
90500.0	16.5	-52.0			26.0	579.4	231.5	50.3	1.000006
91000.0	16.1	-51.6			25.3	579.8	231.5	51.1	1.000006
91500.0	15.7	-51.3			24.7	580.3	232.0	54.2	1.000005
92000.0	15.4	-50.9			24.1	580.8	232.6	57.7	1.000005
92500.0	15.0	-49.9			23.4	582.1	233.1	61.2	1.000005
93000.0	14.7	-48.8			22.8	583.5	233.4	66.0	1.000005
93500.0	14.4	-47.8			22.2	584.8	233.2	74.9	1.000005
94000.0	14.0	-46.7			21.6	586.2	233.1	83.9	1.000005
94500.0	13.7	-45.7			21.0	587.5	232.9	92.8	1.000005
95000.0	13.4	-44.7			20.5	588.9			1.000004
95500.0	13.1	-43.6			19.9	590.2			1.000004
96000.0	12.8	-42.6			19.4	591.6			1.000004
96500.0	12.5	-41.5			18.9	592.9			1.000004
97000.0	12.3	-40.5			18.4	594.2			1.000004

STATION ALTITUDE 3951.40 FEET MSL
 2 MAR. 79 0800 HRS MST
 ASCENSION NO. 22

MRN SIGNIFICANT LEVEL DATA
 0010050022
 APACHE

GEODETIC COORDINATES
 32.62700 LAT DEG
 106.39352 LON DEG

GEOPOTENTIAL ALTITUDE METERS	DIRECTION DEG (TN)	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			AIR DEG C		
2956.	9999.**	9999.**	-9999.**	-9999.**	99	-39.5	1.200+1	
2789.	233.	30.	18.	43.	99	-51.0	1.540+1	
2621.	230.	23.	15.	18.	99	-54.7	2.000+1	
2441.	252.	15.	4.	13.	99	-61.7	2.660+1	
2366.	240.	14.	7.	12.	99	-60.4	3.000+1	
2225.	272.	4.	-0.	4.	99	-61.4	3.740+1	
2100.	260.	0.	1.	0.	99	-58.8	4.560+1	
2048.	256.	0.	2.	0.	99	-61.0	5.000+1	
1839.	242.	0.	4.	7.	99	-60.6	7.000+1	
1791.	253.	11.	3.	10.	99	-58.4	7.560+1	
1747.	243.	21.	10.	19.	99	-60.4	8.100+1	
1683.	253.	18.	5.	18.	99	-58.2	8.580+1	
1615.	252.	17.	5.	18.	99	-60.4	1.000+2	

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

STATION ALTITUDE 3951.40 FEET MSL
 2 MAR. 79 0800 HRS MST
 ASCENSION NO. 22

MANDATORY LEVELS
 0010050022
 APACHE

GEODETIC COORDINATES
 32.62700 LAT DEG
 106.39352 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DATA	
				DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4619.	4.5	76.	239.1	18.1
800.0	6232.	1.4	85.	238.0	21.6
750.0	7929.	-1.9	93.	240.3	40.5
700.0	9716.	-6.0	99.	214.0	35.7
650.0	11611.	-9.5	99.	222.8	38.1
600.0	13627.	-13.4	86.	227.0	30.2
550.0	15760.	-18.6	94.	215.8	39.7
500.0	16090.	-23.7	84.	208.1	30.8
450.0	20587.	-29.6	79.	203.4	34.8
400.0	25303.	-37.1	53.	205.8	49.7
350.0	26287.	-44.5	54.**	201.5	45.9
300.0	29637.	-46.2		237.0	37.5
250.0	35583.	-48.5		225.0	59.2
200.0	38397.	-49.8		230.8	48.7
175.0	41257.	-50.9		228.8	51.2
150.0	44531.	-52.9		257.8	53.0
125.0	46373.	-54.8		257.5	44.0
100.0	52990.	-60.4		252.3	33.6
80.0	57531.	-60.0		244.0	38.3
70.0	60324.	-60.6		241.8	15.2
60.0	63471.	-60.8		232.7	16.6
50.0	67190.	-61.0		256.3	12.6
40.0	71760.	-60.5		205.9	9.3
30.0	77634.	-60.4		239.9	27.6
25.0	81351.	-60.2		249.7	30.3
20.0	85970.	-54.7		229.8	45.0
15.0	92073.	-49.2		233.1	61.1

THIS PAGE IS BEST QUALITY PRACTICE
 FROM COPY FURNISHED TO DDC

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

STATION ALTITUDE 3951.40 FEET MSL
 2 MAP. 79 0800 HRS MST
 ASCENSION NO. 42

MR. MANDATORY LEVELS
 06100000Z
 APACHE

GEODETIC COORDINATES
 32.62700 LAT DEG
 106.39352 LON DEG

GEOPOTENTIAL ALTITUDE METERS	DIRECTION JCG (TN)	SPEED MPS	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
			N-S MPS	MAG			AIR DEG C	SEA	
2006.	233.	31.	19.	25.	99	-49.8	1.500+1		
2021.	230.	23.	15.	18.	99	-54.7	2.000+1		
2480.	250.	16.	5.	15.	99	-60.2	2.500+1		
2360.	240.	14.	7.	12.	99	-60.4	3.000+1		
2157.	266.	5.	0.	5.	99	-60.5	4.000+1		
2046.	256.	0.	2.	0.	99	-61.0	5.000+1		
1935.	233.	0.	5.	7.	99	-60.8	6.000+1		
1839.	242.	0.	4.	7.	99	-60.6	7.000+1		
1755.	244.	20.	9.	18.	99	-60.0	8.000+1		
1615.	252.	17.	5.	16.	99	-60.4	1.000+2		
1475.	258.	20.	5.	22.	99	-54.8	1.250+2		
1357.	253.	27.	6.	27.	99	-52.9	1.500+2		
1258.	229.	20.	17.	20.	99	-50.9	1.750+2		
1170.	231.	20.	16.	19.	99	-49.8	2.000+2		
1024.	225.	30.	22.	22.	99	-48.5	2.500+2		
903.	237.	19.	11.	10.	99	-46.2	3.000+2		
601.	202.	24.	22.	9.	05	-44.5	3.500+2		
710.	206.	20.	25.	11.	00	-37.1	4.000+2		
627.	203.	16.	10.	7.	02	-29.6	4.500+2		
551.	208.	19.	17.	9.	02	-23.7	5.000+2		
481.	216.	20.	17.	12.	01	-18.6	5.500+2		
415.	227.	19.	13.	14.	02	-13.4	6.000+2		
354.	223.	20.	14.	13.	00	-9.5	6.500+2		
296.	214.	18.	15.	10.	00	-6.0	7.000+2		
242.	227.	21.	14.	15.	01	-1.9	7.500+2		
190.	238.	11.	5.	9.	02	1.4	8.000+2		
141.	239.	9.	5.	8.	04	4.5	8.500+2		

STATION ALTITUDE 4051.00 FEET MSL
 2 MAR. 79 0850 HRS MST
 ASCENSION NO. 31

SIGNIFICANT LEVEL DATA
 0610030031
 JALLEN

GEOGETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT
866.8	4051.0	8.8	.0	54.0
850.0	4560.6	6.2	-3.4	50.0
790.0	6534.2	1.3	-6.0	58.0
700.0	9681.6	-7.7	-7.8	99.0
685.8	10205.3	-8.5	-8.8	98.0
673.9	10651.5	-8.7	-16.7	52.0
589.8	14005.0	-15.2	-27.8	33.0
540.8	16139.6	-20.1	-25.6	61.0
500.0	18034.6	-24.7	-28.3	72.0
435.2	21304.0	-32.7	-34.8	81.0
400.0	23236.0	-38.2	-41.3	72.0
354.8	25909.0	-45.5	-50.0	60.0
318.0	28281.9	-51.2		
300.0	29534.0	-49.3		
267.4	32033.7	-46.3		
250.0	33501.9	-47.5		
207.8	37499.7	-50.5		
200.0	38322.9	-49.8		
190.0	39429.2	-49.5		
150.0	44454.9	-56.3		
131.4	47229.0	-56.0		
124.2	48405.2	-58.1		
114.2	50154.2	-56.8		
107.6	51393.0	-58.7		
100.0	52913.3	-58.0		
94.8	54019.1	-59.7		
87.3	55728.1	-57.5		
85.1	56265.3	-53.3		
70.0	60321.7	-63.4		
65.8	61565.8	-60.4		
50.0	67197.3	-63.4		
43.6	70001.4	-59.8		
30.0	77666.4	-63.0		
25.3	81155.3	-53.0		
20.0	85987.8	-57.3		
18.2	87971.3	-55.1		

STATION ALTITUDE 4051.00 FEET MSL
 2 MAP. 79
 ASCENSION NO. 31

UPPER AIR DATA
 0610030031
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) DEGREES	SPEED KNOTS	INDEX OF REFRACTION
4051.0	806.8	8.8	.0	54.0	1068.1	655.0	200.0	14.0	1.000267
4500.0	852.5	6.6	-2.9	50.6	1059.3	652.3			1.000260
5000.0	898.7	5.1	-4.0	51.7	1045.3	650.6			1.000255
5500.0	945.2	3.9	-4.6	53.8	1030.6	649.1			1.000251
6000.0	992.0	2.6	-5.3	55.8	1016.1	647.6			1.000247
6500.0	1039.0	1.4	-6.0	57.9	1001.9	646.1			1.000243
7000.0	1086.0	.0	-6.0	64.1	987.9	644.4			1.000240
7500.0	1133.0	-1.5	-6.1	70.6	974.2	642.6			1.000237
8000.0	1180.0	-2.9	-6.3	77.1	960.7	641.1			1.000234
8500.0	1227.0	-4.3	-6.7	83.6	947.4	639.4			1.000231
9000.0	1274.0	-5.8	-7.1	90.1	934.4	637.7			1.000227
9500.0	1321.0	-7.2	-7.6	96.6	921.6	635.9			1.000224
10000.0	1368.0	-8.2	-8.4	98.4	907.3	634.7	242.5	26.5	1.000220
10500.0	1415.0	-8.6	-13.5	67.6	891.7	634.0	243.7	27.9	1.000210
11000.0	1462.0	-9.4	-17.8	50.0	877.0	633.0	244.7	29.2	1.000204
11500.0	1509.0	-10.3	-19.4	47.2	863.0	631.8	244.8	29.8	1.000199
12000.0	1556.0	-11.3	-21.0	44.4	849.2	630.6	245.3	29.6	1.000195
12500.0	1603.0	-12.3	-22.6	41.5	835.7	629.4	247.1	27.8	1.000192
13000.0	1650.0	-13.3	-24.3	38.7	822.4	628.2	249.2	25.3	1.000188
13500.0	1697.0	-14.2	-26.0	35.9	809.2	627.0	250.3	24.2	1.000184
14000.0	1744.0	-15.2	-27.8	33.0	796.3	625.8	248.1	27.0	1.000181
14500.0	1791.0	-16.3	-26.9	39.5	783.8	624.5	249.6	28.1	1.000178
15000.0	1838.0	-17.5	-26.3	46.1	771.4	623.1	245.6	28.3	1.000176
15500.0	1885.0	-18.6	-25.9	52.6	759.3	621.7	244.9	27.5	1.000173
16000.0	1932.0	-19.8	-25.7	59.2	747.4	620.3	241.7	29.9	1.000171
16500.0	1979.0	-21.0	-26.1	63.1	735.6	618.8	238.5	32.1	1.000168
17000.0	2026.0	-22.2	-26.8	66.0	724.1	617.3	234.4	33.1	1.000165
17500.0	2073.0	-23.4	-27.5	68.9	712.7	615.8	230.6	34.1	1.000163
18000.0	2120.0	-24.6	-28.2	71.8	701.5	614.3	226.6	33.4	1.000160
18500.0	2167.0	-25.8	-29.2	73.3	690.2	612.8	222.3	32.5	1.000157
19000.0	2214.0	-27.1	-30.2	74.7	679.1	611.3	217.9	32.1	1.000154
19500.0	2261.0	-28.3	-31.2	76.0	668.2	609.7	213.8	32.3	1.000152
20000.0	2308.0	-29.5	-32.2	77.4	657.5	608.2	209.8	32.7	1.000149
20500.0	2355.0	-30.7	-33.2	79.8	646.9	606.7	206.7	33.6	1.000146
21000.0	2402.0	-32.0	-34.2	80.2	636.6	605.1	203.8	34.6	1.000144
21500.0	2449.0	-33.3	-35.5	80.1	626.4	603.5	202.6	34.8	1.000141
22000.0	2496.0	-34.7	-37.2	77.8	616.6	601.7	202.2	34.8	1.000139
22500.0	2543.0	-36.1	-38.9	75.4	606.9	599.9	202.0	34.3	1.000137
23000.0	2590.0	-37.5	-40.5	73.1	597.4	598.1	202.3	33.3	1.000134
23500.0	2637.0	-38.9	-42.2	70.8	587.8	596.3	202.7	32.4	1.000132

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

STATION ALTITUDE 4051.00 FEET MSL
 2 MAR. 79 0050 HRS MST
 ASCENSION NO. 31

UPPER AIR DATA
 0610030031
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TI)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
24000.0	386.5	-40.3	-43.8	68.6	578.2	594.5	205.6	33.0	1.000130
24500.0	377.9	-41.7	-45.4	66.3	566.7	592.8	208.4	33.7	1.000127
25000.0	369.6	-43.0	-47.0	64.1	559.4	591.0	208.2	35.6	1.000125
25500.0	361.4	-44.4	-48.7	61.8	550.3	589.3	207.9	37.4	1.000123
26000.0	353.3	-45.7	-50.5	57.7**	541.1	587.5	205.2	38.8	1.000121
26500.0	345.3	-46.9	-53.7	45.1**	531.6	586.0	202.8	40.2	1.000119
27000.0	337.4	-48.1	-57.5	32.4**	522.3	584.4	207.8	38.3	1.000117
27500.0	329.7	-49.3	-62.3	19.8**	513.1	582.8	213.6	36.7	1.000114
28000.0	322.2	-50.5	-70.6	7.1**	504.1	581.3	222.5	34.8	1.000112
28500.0	314.8	-50.9			493.3	580.8	231.9	33.8	1.000110
29000.0	307.5	-50.1			480.4	581.8	232.9	34.9	1.000107
29500.0	300.5	-49.4			467.7	582.8	233.9	36.0	1.000104
30000.0	293.6	-48.7			455.8	583.6	233.1	37.3	1.000102
30500.0	287.0	-48.1			444.3	584.4	232.3	38.6	1.000099
31000.0	280.4	-47.5			433.0	585.2	233.2	39.9	1.000096
31500.0	274.0	-46.9			422.0	585.9	234.2	41.3	1.000094
32000.0	267.8	-46.3			411.3	586.7	235.7	42.1	1.000092
32500.0	261.7	-46.7			402.6	586.3	237.3	42.8	1.000090
33000.0	255.8	-47.1			394.2	585.7	238.8	43.2	1.000088
33500.0	250.0	-47.5			386.0	585.2	240.1	43.6	1.000086
34000.0	244.3	-47.9			377.8	584.7	240.9	44.0	1.000084
34500.0	238.7	-48.2			369.8	584.2	240.9	44.6	1.000082
35000.0	233.3	-48.6			361.9	583.8	240.9	45.1	1.000081
35500.0	227.9	-49.0			354.2	583.3	240.6	44.7	1.000079
36000.0	222.7	-49.4			346.7	582.8	240.2	44.4	1.000077
36500.0	217.6	-49.7			339.4	582.3	239.6	43.5	1.000076
37000.0	212.7	-50.1			332.2	581.8	238.8	42.6	1.000074
37500.0	207.8	-50.5			325.1	581.3	237.8	42.8	1.000072
38000.0	203.0	-50.1			317.1	581.9	236.8	43.2	1.000071
38500.0	198.4	-49.8			309.3	582.3	236.3	45.1	1.000069
39000.0	193.8	-49.6			302.1	582.5	235.9	47.1	1.000067
39500.0	189.4	-49.6			295.1	582.5	235.6	46.9	1.000066
40000.0	185.0	-50.3			289.1	581.6	235.2	46.3	1.000064
40500.0	180.7	-50.9			283.2	580.7	235.9	45.7	1.000063
41000.0	176.5	-51.6			277.5	579.8	236.8	45.1	1.000062
41500.0	172.4	-52.3			271.9	579.0	238.4	45.0	1.000061
42000.0	168.4	-53.0			266.4	578.1	240.5	45.2	1.000059
42500.0	164.4	-53.7			261.0	577.2	242.6	45.5	1.000058
43000.0	160.6	-54.3			255.7	576.3	244.2	44.1	1.000057
43500.0	156.9	-55.0			250.5	575.4	245.7	42.1	1.000056

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

STATION ALTITUDE +051.00 FEET MSL
 2 MAP. 79 0050 HRS MST
 ASCENSION NO. 31

UPPER AIR DATA
 061003031
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

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
		AIR	DEWPOINT				DIRECTION DEGREES(TN)	SPEED KNOTS	
4400.0	153.2	-55.7			245.5	574.5	247.3	40.6	1.000055
4450.0	149.7	-56.3			240.4	573.7	247.8	42.3	1.000054
4500.0	146.1	-56.2			234.7	573.8	248.3	44.1	1.000052
4550.0	142.7	-56.2			229.1	573.8	250.8	46.6	1.000051
4600.0	139.3	-56.1			223.7	573.9	253.5	49.3	1.000050
4650.0	136.1	-56.1			218.3	574.0	254.9	51.7	1.000049
4700.0	132.8	-56.0			213.1	574.1	255.3	53.7	1.000047
4750.0	129.7	-56.5			208.5	573.4	255.0	56.8	1.000046
4800.0	126.6	-57.4			204.5	572.3	253.4	61.9	1.000046
4850.0	123.6	-58.0			200.2	571.4	252.4	66.0	1.000045
4900.0	120.7	-57.7			195.1	571.9	254.4	63.2	1.000043
4950.0	117.8	-57.3			190.2	572.4	259.5	60.6	1.000042
5000.0	115.0	-56.9			185.3	572.9	257.0	55.0	1.000041
5050.0	112.3	-57.3			181.3	572.3	257.1	48.7	1.000040
5100.0	109.7	-58.1			177.6	571.3	253.6	45.4	1.000040
5150.0	107.0	-58.7			173.9	570.0	251.7	46.9	1.000039
5200.0	104.5	-58.4			169.5	570.9	248.0	48.6	1.000038
5250.0	102.0	-58.2			165.3	571.2	247.5	49.4	1.000037
5300.0	99.6	-58.1			161.3	571.3	247.0	50.1	1.000036
5350.0	97.2	-58.9			158.1	570.2	249.9	50.2	1.000035
5400.0	94.9	-59.7			154.8	569.2	247.3	48.4	1.000034
5450.0	92.6	-59.1			150.7	570.0	247.9	46.6	1.000034
5500.0	90.4	-58.4			146.7	570.9	247.7	45.6	1.000033
5550.0	88.3	-57.8			142.8	571.7	247.2	45.1	1.000032
5600.0	86.2	-55.4			137.9	574.9	248.6	44.6	1.000031
5650.0	84.1	-53.9			133.7	576.9	248.0	37.0	1.000030
5700.0	82.1	-55.1			131.3	573.2	250.3	28.8	1.000029
5750.0	80.2	-56.4			128.9	573.6	254.7	20.9	1.000029
5800.0	78.3	-57.6			126.5	571.9	264.9	13.5	1.000028
5850.0	76.4	-58.9			124.2	570.3	294.7	7.5	1.000028
5900.0	74.6	-60.1			122.0	568.6	315.3	6.8	1.000027
5950.0	72.8	-61.4			119.8	567.0	318.0	7.4	1.000027
6000.0	71.1	-62.6			117.6	565.3	317.6	8.0	1.000026
6050.0	69.4	-63.0			115.0	564.8	308.2	9.0	1.000026
6100.0	67.7	-61.8			111.6	566.4	300.5	10.2	1.000025
6150.0	66.1	-60.6			106.3	568.0	291.9	11.6	1.000024
6200.0	64.5	-60.6			105.7	567.9	278.6	13.5	1.000024
6250.0	62.9	-60.9			103.3	567.6	269.0	16.0	1.000023
6300.0	61.4	-61.2			100.9	567.2	267.3	17.1	1.000022
6350.0	59.9	-61.4			98.6	566.9	270.4	16.8	1.000022

STATION ALTITUDE 4051.00 FEET MSL
 2 MAR. 79 0650 HRS MST
 ASCENSION I.O. 31

UPPER AIR DATA
 0610030031
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

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 CENTIGRADE	DEWPOINT CENTIGRADE				DIRECTION DEGREES (TH)	SPEED KNOTS	
04000.0	58.5	-61.7		96.3	566.5	273.6		1.000021	
04500.0	57.1	-62.0		94.1	566.2	276.6		1.000021	
05000.0	55.7	-62.2		92.0	565.8	280.0		1.000020	
05500.0	54.3	-62.5		89.8	565.4	282.7		1.000020	
06000.0	53.0	-62.8		87.8	565.1	273.7		1.000020	
06500.0	51.7	-63.0		85.8	564.7	260.7		1.000019	
07000.0	50.5	-63.3		83.8	564.4	245.4		1.000019	
07500.0	49.3	-63.0		81.7	564.7	233.5		1.000018	
08000.0	48.1	-62.4		79.5	565.6	222.4		1.000018	
08500.0	46.9	-61.7		77.3	566.5	221.0		1.000017	
09000.0	45.8	-61.1		75.2	567.3	223.6		1.000017	
09500.0	44.7	-60.4		73.2	568.2	225.5		1.000016	
70000.0	43.6	-59.8		71.2	569.0	232.8		1.000016	
70500.0	42.6	-60.0		69.5	568.8	241.7		1.000015	
71000.0	41.5	-60.2		67.9	568.5	250.3		1.000015	
71500.0	40.5	-60.4		66.4	568.2	258.8		1.000015	
72000.0	39.6	-60.6		64.8	567.9	266.9		1.000014	
72500.0	38.6	-60.8		63.3	567.6	274.2		1.000014	
73000.0	37.7	-61.1		61.9	567.4	274.6		1.000014	
73500.0	36.8	-61.3		60.4	567.1	274.2		1.000013	
74000.0	35.9	-61.5		59.0	566.8	273.7		1.000013	
74500.0	35.0	-61.7		57.7	566.5	272.1		1.000013	
75000.0	34.2	-61.9		56.3	566.2	270.4		1.000013	
75500.0	33.3	-62.1		55.0	566.0	268.8		1.000012	
76000.0	32.5	-62.3		53.8	565.7	268.0		1.000012	
76500.0	31.8	-62.5		52.5	565.4	267.4		1.000012	
77000.0	31.0	-62.7		51.3	565.1	266.9		1.000011	
77500.0	30.2	-62.9		50.1	564.8	259.8		1.000011	
78000.0	29.5	-63.0		48.9	564.8	253.3		1.000011	
78500.0	28.8	-63.0		47.7	564.8	247.5		1.000011	
79000.0	28.1	-63.0		46.6	564.6	244.8		1.000010	
79500.0	27.4	-63.0		45.4	564.8	242.8		1.000010	
80000.0	26.8	-63.0		44.3	564.8	241.3		1.000010	
80500.0	26.1	-63.0		43.3	564.8	242.7		1.000010	
81000.0	25.5	-63.0		42.2	564.8	244.0		1.000009	
81500.0	24.9	-62.6		41.1	565.3	245.1		1.000009	
82000.0	24.3	-62.0		40.0	566.1	245.0		1.000009	
82500.0	23.7	-61.4		39.0	566.9	244.9		1.000009	
83000.0	23.1	-60.8		37.9	567.7	244.8		1.000008	
83500.0	22.6	-60.2		36.9	568.5	244.2		1.000008	

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STATION ALTITUDE 4051.00 FEET MSL
 2 MAR. 79
 ASCENSION I.O. 31

UPPER AIR DATA
 0610030031
 JALLEN

GEOMETRIC ALTITUDE 4051.00 FEET MSL
 2 MAR. 79
 ASCENSION I.O. 31

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
84000.0	22.0	-59.6		35.9	569.3	243.6	37.9	1.000008
84500.0	21.5	-59.0		35.0	570.0	243.0	38.2	1.000008
85000.0	21.0	-58.5		34.0	570.9	241.3	38.6	1.000008
85500.0	20.5	-57.9		33.1	571.6	239.6	39.1	1.000007
86000.0	20.0	-57.3		32.3	572.4	237.8	39.6	1.000007
86500.0	19.5	-56.7		31.4	573.1			1.000007
87000.0	19.1	-56.2		30.6	573.8			1.000007
87500.0	18.6	-55.6		29.8	574.6			1.000007

STATION ALTITUDE 4051.00 FEET MSL
 2 MAR 79 0950 HRS MST
 ASCENSION NO. 31

MRN SIGNIFICANT LEVEL DATA
 0510039031
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOCENTRAL ALTITUDE METERS	DIRECTION DEG (TN)	SPEED MPS	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
			N-S MPS	9999.**			AIR DEG C		
2069.	9999.**	9999.**	-9999.**	-9999.**	99	99	-55.1	1.820+1	
2009.	238.	20.	11.	17.	99	99	-57.3	2.000+1	
2402.	244.	16.	7.	14.	99	99	-63.0	2.520+1	
2357.	258.	8.	2.	6.	99	99	-63.0	3.000+1	
2126.	233.	7.	4.	6.	99	99	-59.8	4.360+1	
2041.	241.	4.	2.	4.	99	99	-63.4	5.000+1	
1671.	269.	6.	-2.	6.	99	99	-60.4	6.580+1	
1635.	311.	4.	-3.	3.	99	99	-63.4	7.000+1	
1716.	247.	21.	8.	19.	99	99	-53.3	8.510+1	
1693.	247.	23.	9.	21.	99	99	-57.5	8.730+1	
1642.	247.	25.	10.	23.	99	99	-59.7	9.480+1	
1606.	247.	26.	10.	24.	99	99	-56.0	1.000+2	

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

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STATION ALTITUDE 4051.00 FEET MSL
 2 MAR. 79
 ASCENSION NO. 31

MANDATORY LEVELS
 0510030031
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
850.0	4570.	6.2	-3.4	50.	9999.0	9999.0XX	
800.0	6197.	2.1	-5.8	57.	9999.0	9999.0XX	
750.0	7893.	-2.6	-6.3	76.	9999.0	9999.0XX	
700.0	9675.	-7.7	-7.8	99.	9999.0	9999.0XX	
650.0	11557.	-10.5	-19.8	47.	244.8	29.9	
600.0	13564.	-14.4	-26.3	35.	249.9	24.6	
550.0	15709.	-19.1	-25.8	56.	243.5	28.5	
500.0	18011.	-24.7	-28.3	72.	226.4	33.4	
450.0	20497.	-30.8	-33.2	79.	206.0	33.7	
400.0	23200.	-38.2	-41.3	72.	202.4	32.8	
350.0	26163.	-46.2	-51.8	53.**	204.2	39.3	
300.0	29480.	-49.3			233.0	30.1	
250.0	33434.	-47.5			240.0	43.6	
200.0	38230.	-49.6			236.4	44.3	
175.0	41090.	-51.9			237.1	44.9	
150.0	44341.	-56.3			247.8	42.1	
125.0	48139.	-57.9			252.7	64.5	
100.0	52750.	-58.0			247.1	50.0	
80.0	57380.	-56.5			255.3	20.2	
70.0	60122.	-63.4			311.9	8.5	
60.0	63260.	-61.4			270.1	16.8	
50.0	66952.	-63.4			241.4	8.5	
40.0	71501.	-60.5			202.8	15.6	
30.0	77345.	-63.0			258.0	15.6	
25.0	81027.	-62.7			244.8	32.1	
20.0	85597.	-57.3			238.0	39.5	

** 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 4051.00 FEET MSL
 2 MAF. 79
 ASCENSION NO. 31

ARR. MANDATORY LEVELS
 0010030031
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOMETRICAL ALTITUDE -METERS	DIRECTION DEG (TN)	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			AIR DEG C		
2009.	238.	20.	11.	17.	99	-57.3	2.000+1	
2470.	245.	17.	7.	15.	99	-62.7	2.500+1	
2357.	258.	8.	2.	8.	99	-63.0	3.000+1	
2179.	263.	8.	1.	8.	99	-60.5	4.000+1	
2041.	241.	4.	2.	4.	99	-63.4	5.000+1	
1928.	270.	4.	-0.	4.	99	-61.4	6.000+1	
1833.	312.	4.	-3.	3.	99	-63.4	7.000+1	
1749.	255.	10.	3.	10.	99	-56.5	8.000+1	
1608.	247.	26.	10.	24.	99	-58.0	1.000+2	
1457.	253.	33.	10.	32.	99	-57.9	1.250+2	
1352.	248.	22.	8.	20.	99	-56.3	1.500+2	
1253.	237.	23.	13.	19.	99	-51.9	1.750+2	
1185.	236.	23.	13.	19.	99	-49.8	2.000+2	
1019.	240.	22.	11.	19.	99	-47.5	2.500+2	
899.	234.	19.	11.	15.	99	-49.3	3.000+2	
797.	204.	20.	16.	8.	06	-46.2	3.500+2	
707.	202.	17.	16.	8.	03	-38.2	4.000+2	
625.	207.	17.	15.	8.	02	-30.6	4.500+2	
547.	226.	17.	12.	12.	04	-24.7	5.000+2	
479.	243.	15.	7.	13.	07	-19.1	5.500+2	
413.	250.	13.	4.	12.	12	-14.4	6.000+2	
352.	245.	15.	7.	14.	09	-10.5	7.000+2	
296.	9999.**	9999.**	-9999.**	-9999.**	00	-7.7	8.000+2	
241.	9999.**	9999.**	-9999.**	-9999.**	04	-2.6	8.500+2	
189.	9999.**	9999.**	-9999.**	-9999.**	08	2.1		
140.	9999.**	9999.**	-9999.**	-9999.**	10	6.2		

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