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ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N --ETC F/6 4/2
12814A LANCE MISSILE NUMBER 3932, ROUND NUMBER 290 RST (7 OCTOB--ETC(U)
OCT 76

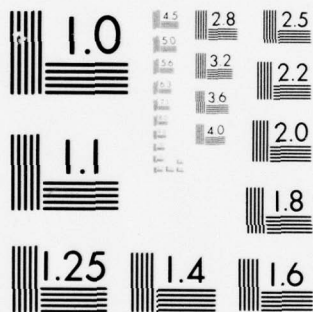
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METEOROLOGICAL DATA REPORT

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12814A LANCE
MISSILE 3932, ROUND 290 RST
(7 October 1976)

Number

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WSMR METEOROLOGICAL TEAM

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 12814A Lance, Missile Number 3932, Round Number 290 RST, are presented in tabular form.		

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INTRODUCTION

12814A Lance, Missile Number 3932, Round Number 290 RST, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1230 HRS MDT, 7 October 1976. The scheduled launch time was 1230 HRS MDT.

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.

ELEVATION	3,986.67	FEET/MSL
PRESSURE	887.0	MBS
TEMPERATURE	16.7	°C
RELATIVE HUMIDITY	31	%
DEW POINT	-0.5	C
DENSITY	1,062.3	GM/M ³
WIND SPEED	010	MPH
WIND DIRECTION	350	DEGREES
CLOUD COVER	.1 .2 .6	Cu Ac Ci

TABLE I. SURFACE OBSERVATIONS TAKEN AT LC-33,
1230 HRS MDT/7 OCTOBER 1976.

ELEVATION	3,990.0	FEET/MSL
PRESSURE	887.1	MBS
TEMPERATURE	14.4	°C
RELATIVE HUMIDITY	29	%
DEW POINT	-3.4	°C
DENSITY	1,070.9	GM/M ³
WIND SPEED	014	MPH
WIND DIRECTION	050	DEGREES
CLOUD COVER	2 4	Cu Ac

TABLE II. SURFACE OBSERVATIONS TAKEN AT WSD,
1232 HRS MDT/7 OCTOBER 1976.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	360	10.0
100	355	11.0
200	355	11.0
300	350	11.0
400	346	12.0
500	342	12.0
600	343	13.0
700	342	12.0
800	343	13.0
900	346	14.0
1000	351	16.0
1100	332	23.0
1200	358	19.0
1300	357	19.0
1400	350	18.0
1500	349	18.0
1600	343	19.0
1700	341	20.0
1800	346	22.0
1900	350	22.0
2000	350	22.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
2100	352	21.0
2200	354	20.0
2300	356	22.0
2400	357	21.0
2500	358	20.0
2600	360	20.0
2700	004	23.0
2800	006	27.0
2900	005	28.0
3000	008	28.0
3100	013	26.0
3200	020	28.0
3300	011	28.0
3400	011	26.0
3500	001	25.0
3600	003	27.0
3700	004	24.0
3800	001	24.0
3900	005	22.0
4000	006	21.0
4100	007	21.0

TABLE III. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM LC-33, AT 1225 MDT/7 OCTOBER 1976
12814A LANCE, MISSILE NO. 3932, ROUND NO. 290 RST

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,296.83 Y = 185,251.85 Z = 3,986.67

APPROXIMATELY: 815 FEET SOUTH SOUTHEAST OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	004	21.0
4300	005	21.0
4400	001	23.0
4500	360	23.0
4600	358	22.0
4700	360	22.0
4800	351	23.0
4900	356	21.0
5000	003	22.0
5100	004	21.0
5200	004	21.0
5300	008	22.0
5400	017	22.0
5500	019	21.0
5600	008	23.0
5700	012	27.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
5800	011	22.0
5900	004	23.0
6000	009	22.0
6100	346	21.0
6200	355	21.0
6300	359	22.0
6400	351	24.0
6500	345	23.0
6600	348	25.0
6700	353	24.0
6800	351	27.0
6900	353	27.0
7000	354	27.0
7100	355	27.0
7200	353	23.0

TABLE III. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	360	10.0
100	356	10.0
200	351	10.0
300	344	9.0
400	341	9.0
500	336	9.0
600	331	8.0
700	330	8.0
800	330	9.0
900	334	10.0
1000	334	10.0
1100	335	11.0
1200	335	11.0
1300	337	12.0
1400	338	12.0
1500	338	12.0
1600	339	13.0
1700	342	13.0
1800	343	14.0
1900	348	14.0
2000	352	15.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
2100	356	16.0
2200	358	18.0
2300	360	19.0
2400	360	
2500	001	
2600	001	
2700	003	
2800	004	
2900	007	
3000	008	
3100	008	19.0
3200	008	20.0
3300	008	20.0
3400	007	21.0
3500	007	
3600	007	
3700	007	
3800	006	
3900	008	
4000	009	21.0
4100	010	18.0

TABLE IV. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM LC-33, AT 1235 MDT/7 OCTOBER 1976
12814A LANCE, MISSILE NO. 3932, ROUND NO. 290 RST

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,296.83 Y = 185,251.85 Z = 3,986.67

APPROXIMATELY: 815 FEET SOUTH SOUTHEAST OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	013	19.0
4300	015	19.0
4400	017	18.0
4500	012	21.0
4600	016	18.0
4700	012	19.0
4800	006	19.0
4900	360	22.0
5000	354	21.0
5100	349	21.0
5200	341	21.0
5300	344	22.0
5400	346	21.0
5500	349	18.0
5600	348	20.0
5700	347	22.0
5800	344	23.0
5900	347	23.0
6000	344	22.0
6100	354	24.0
6200	350	24.0
6300	350	23.0
6400	349	26.0
6500	357	27.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
6600	350	26.0
6700	351	28.0
6800	351	29.0
6900	352	30.0
7000	352	31.0
7100	351	32.0
7200	353	
7300	352	
7400	352	
7500	351	
7600	348	32.0
7700	347	30.0
7800	345	30.0
7900	343	29.0
8000	338	28.0
8100	335	28.0
8200	333	28.0
8300	332	27.0
8400	332	27.0
8500	331	26.0
8600	325	23.0
8700	323	22.0
8800	320	22.0
8900	317	23.0

TABLE IV. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
9000	313	24.0
9100	314	23.0
9200	315	22.0
9300	316	22.0
9400	316	21.0
9500	314	21.0
9600	312	22.0
9700	310	
9800	309	
9900	309	
10000	309	22.0
10100	311	23.0
10200	311	25.0
10300	311	27.0
10400	312	29.0
10500	312	31.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
10600	311	32.0
10700	310	33.0
10800	310	35.0
10900	311	35.0
11000	311	35.0
11100	320	41.0
11200	320	42.0
11300	320	43.0
11400	318	44.0
11500	317	44.0
11600	318	44.0
11700	319	43.0
11800	321	44.0
11900	322	45.0
12000	322	45.0

TABLE IV. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

WSTM SITE COORDINATES
440491.60 FEET E
444023.05 FEET N

SIGNIFICANT LEVEL DATA
28100 J0304
JALLEN

TABLE V

STATION ALTITUDE 4051.00 FEET MSL
7 OCT. 76
ASCENSION NO. 304
1123 HRS MDT

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEW POINT DEGREES CEN, GRADE	REL. HUM. PERCENT
864.8	4051.0	13.0	43.0
874.0	4388.3	10.5	40.0
850.0	5146.6	8.4	41.0
790.0	7112.3	2.7	45.0
775.0	7622.0	2.9	42.0
700.0	10296.3	-3.7	48.0
691.0	10631.6	-4.6	48.0
659.0	11852.5	-7.2	67.0
610.0	13815.9	-11.6	54.0
592.0	14572.0	-10.5	33.0
585.0	14873.8	-9.0	25.0
571.0	15491.8	-7.5	24.0
530.0	17386.2	-10.9	25.0
521.0	17819.5	-10.2	25.0
500.0	18858.9	-11.6	27.0
459.0	20997.2	-15.9	29.0
451.0	21433.0	-16.0	28.0
400.0	24371.3	-22.1	29.0
369.0	26304.4	-26.9	28.0
354.0	27289.4	-26.9	26.0
300.0	31140.8	-36.6	29.0
291.0	31833.1	-38.3	26.0
250.0	35212.8	-46.4	29.0
220.0	37963.6	-53.7	28.0
213.0	38646.8	-54.6	26.0
200.0	39964.7	-57.9	29.0
187.0	41358.1	-58.7	26.0
181.0	42037.1	-56.1	29.0
166.0	43839.8	-58.4	29.0
159.0	44727.7	-60.9	29.0

STATION ALTITUDE 4051.00 FEET MSL
 7 OCT. 76
 ASCENSION NO. 304

SIGNIFICANT LEVEL DATA
 28100,0304
 JALLEN

WSTM SITE COORDINATES
 440491.60 FEET E
 444023.05 FEET N

TABLE V (CONT)

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR	DEW POINT	
	DEGREES	CEN, GRADE	
150.0	45714.6	-63.4	
135.0	48041.8	-64.7	
119.0	50609.9	-60.0	
111.0	52032.6	-63.0	
109.0	52400.6	-64.4	
104.0	53349.2	-63.7	
100.0	54141.0	-64.7	
92.0	55809.2	-67.5	
88.0	56701.0	-63.6	
86.0	57173.3	-57.6	
83.0	57917.0	-55.3	
76.0	59750.6	-60.4	
70.0	61437.0	-61.7	
62.0	63944.1	-57.3	
60.0	64626.3	-58.8	
51.0	68035.1	-53.8	
50.0	68453.7	-55.5	
35.0	75999.7	-53.5	
33.0	77258.6	-50.9	
30.0	79304.4	-52.1	

STATION ALTITUDE 4051.00 FEET MSL
7 OCT. 76
ASCENSION NO. 304

UPPER AIR DATA
2810030304
JALLEN

WSIM SITE COORDINATES
4 0491.00 FEET E
4 4023.05 FEET N

TABLE VI

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TD)	SPEED KNOTS	INDEX OF REFRACTION
4051.0	884.8	13.0	43.0	1074.2	659.9	15.0	24.1	1.000269
4500.0	870.4	10.2	40.1	1067.9	656.5	18.0	24.0	1.000262
5000.0	854.6	8.8	40.8	1053.7	654.8	22.6	23.9	1.000257
5500.0	838.9	7.4	41.7	1039.7	653.1	26.6	24.0	1.000252
6000.0	823.4	5.9	42.7	1023.0	651.4	30.6	24.2	1.000248
6500.0	808.2	4.5	43.8	1012.4	649.7	34.0	24.1	1.000244
7000.0	793.3	3.0	44.8	999.1	647.9	35.8	22.0	1.000239
7500.0	778.6	2.9	42.7	981.2	647.7	38.1	20.0	1.000235
8000.0	763.9	2.0	42.8	963.9	646.7	39.2	18.2	1.000230
8500.0	749.5	.7	44.0	952.0	645.2	38.3	16.9	1.000226
9000.0	735.4	-5	45.1	938.3	643.7	37.3	15.6	1.000223
9500.0	721.5	-1.7	46.2	924.9	642.2	34.1	14.7	1.000219
10000.0	707.9	-3.0	47.3	911.7	640.8	28.3	14.2	1.000215
10500.0	694.5	-4.2	48.0	893.7	639.2	22.3	13.9	1.000211
11000.0	681.2	-5.4	53.7	883.1	637.9	16.1	14.1	1.000209
11500.0	668.1	-6.4	61.5	871.5	636.6	10.6	15.5	1.000207
12000.0	655.2	-7.5	66.0	858.2	635.3	6.0	17.9	1.000203
12500.0	642.4	-8.7	62.7	845.1	634.0	2.2	18.5	1.000199
13000.0	629.9	-9.8	59.4	832.3	632.6	354.4	20.8	1.000195
13500.0	617.6	-10.9	56.1	819.7	631.2	347.0	23.5	1.000191
14000.0	605.6	-11.3	48.9	803.1	630.6	342.2	26.5	1.000186
14500.0	593.7	-10.6	35.0	787.3	631.4	337.3	29.9	1.000181
15000.0	582.1	-8.7	24.8	768.4	633.7	333.3	33.6	1.000175
15500.0	570.8	-7.5	24.0	748.2	635.1	330.1	37.4	1.000171
16000.0	559.7	-8.4	24.3	733.1	634.0	332.0	41.1	1.000168
16500.0	548.8	-9.3	24.5	724.2	633.0	334.9	44.8	1.000165
17000.0	538.1	-10.2	24.8	712.6	631.9	337.3	48.6	1.000163
17500.0	527.6	-10.7	25.0	700.0	631.3	340.6	52.0	1.000160
18000.0	517.3	-10.4	25.3	683.6	631.6	343.9	57.5	1.000157
18500.0	507.2	-11.1	26.3	673.9	630.8	346.8	62.4	1.000154

STATION ALTITUDE 4051.00 FEET MSL
 7 OCT. 76
 ASCENSION NO. 304
 UPPER AIR DATA
 2610030304
 JALLEN
 WSIM SITE COORDINATES
 400491.60 FEET E
 404023.05 FEET N

TABLE VI (CONT)

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(TN)	SPEED KNOTS	
19000.0	427.2	-11.9	-27.0	27.1	662.6	629.9	347.9	66.4	1.000151
19500.0	427.3	-12.9	-27.7	27.6	652.0	628.6	346.8	69.1	1.000149
20000.0	477.7	-13.9	-28.4	28.1	641.6	627.4	345.8	71.0	1.000146
20500.0	468.2	-14.9	-29.1	28.5	631.3	626.2	345.9	74.6	1.000144
21000.0	458.9	-15.9	-29.8	29.0	621.2	625.0	343.4	76.6	1.000141
21500.0	449.8	-16.1	-30.3	28.0	609.4	624.7	341.9	78.6	1.000139
22000.0	440.7	-17.2	-31.2	28.2	599.5	623.4	340.5	80.7	1.000136
22500.0	431.8	-18.2	-32.0	28.4	589.8	622.1	341.0	82.7	1.000134
23000.0	423.0	-19.3	-32.9	28.5	580.2	620.9	341.0	84.6	1.000131
23500.0	414.5	-20.3	-33.7	28.7	570.9	619.6	342.2	86.6	1.000129
24000.0	406.1	-21.3	-34.6	28.9	561.6	618.3	342.9	87.0	1.000127
24500.0	397.9	-22.4	-35.5	28.9	552.6	617.0	343.6	88.1	1.000125
25000.0	389.6	-23.7	-36.7	28.7	543.9	615.4	344.6	88.4	1.000123
25500.0	381.6	-24.9	-37.9	28.4	535.4	613.9	345.4	88.6	1.000121
26000.0	373.7	-26.1	-39.1	28.2	527.0	612.3	345.1	89.0	1.000119
26500.0	366.0	-26.9	-39.9	27.6	517.6	611.4	344.6	91.2	1.000116
27000.0	358.3	-26.9	-40.3	26.6	508.8	611.4	344.1	92.5	1.000114
27500.0	350.8	-27.4	-40.9	26.2	497.3	610.7	343.3	94.4	1.000112
28000.0	343.4	-28.7	-41.9	26.6	489.2	609.2	342.0	97.0	1.000110
28500.0	336.1	-29.9	-42.9	26.9	481.3	607.6	340.9	99.0	1.000108
29000.0	328.9	-31.2	-43.8	27.3	473.5	606.0	339.7	102.3	1.000106
29500.0	321.9	-32.5	-44.8	27.7	465.9	604.4	339.4	103.6	1.000104
30000.0	315.1	-33.7	-45.8	28.1	458.4	602.8	339.1	104.1	1.000103
30500.0	308.4	-35.0	-46.8	28.5	451.0	601.3	338.8	106.3	1.000101
31000.0	301.8	-36.2	-47.8	28.9	443.8	599.7	338.5	107.3	1.000099
31500.0	295.3	-37.5	-48.9	29.0	436.5	598.1	337.9	107.0	1.000098
32000.0	288.8	-38.7	-50.4	27.6**	429.1	596.5	337.3	106.6	1.000096
32500.0	282.4	-39.9	-52.9	23.3**	421.8	595.0	336.7	106.3	1.000094
33000.0	276.1	-41.1	-55.6	19.0**	414.5	593.5	336.0	106.1	1.000093
33500.0	270.0	-42.3	-58.6	14.7**	407.4	591.9	335.4	106.5	1.000091

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

STATION ALTITUDE 4051.00 FEET MSL
7 OCT. 76
ASCENSION NO. 304

UPPER AIR DATA
2810030304
JALLEN

WSTM SITE COORDINATES
400491.60 FEET E
424023.05 FEET N

TABLE VI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUB. C METER	SPEED OF SOUND M/SEC	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
34000.0	264.0	-43.5	10.4**	400.5	500.4	334.7	107.1	1.000069
34500.0	258.1	-44.7	6.1**	390.6	508.8	334.0	107.5	1.000028
35000.0	252.4	-45.9	1.8**	380.9	507.3	333.6	108.3	1.000086
35500.0	246.7	-47.2		380.3	505.0	333.5	108.5	1.000085
36000.0	241.0	-48.5		370.7	503.9	333.4	109.0	1.000083
36500.0	235.5	-49.8		367.3	502.2	333.2	109.4	1.000082
37000.0	230.1	-51.1		364.0	500.5	333.5	108.2	1.000080
37500.0	224.8	-52.5		354.9	578.7	333.7	106.2	1.000079
38000.0	219.6	-53.7		344.7	577.1	334.0	104.3	1.000078
38500.0	214.5	-54.4		341.6	576.2	334.2	102.4	1.000076
39000.0	209.4	-55.5		330.2	574.0	335.0	100.0	1.000075
39500.0	204.5	-56.7		329.2	573.1	335.8	99.6	1.000073
40000.0	199.7	-57.9		320.2	571.5	336.0	98.4	1.000072
40500.0	194.9	-58.2		310.9	571.2	337.5	97.1	1.000070
41000.0	190.3	-58.5		300.0	570.8	338.0	94.3	1.000069
41500.0	185.7	-58.2		300.9	571.2	339.8	90.9	1.000067
42000.0	181.3	-58.2		291.2	573.8	341.1	87.0	1.000065
42500.0	177.0	-58.7		284.9	573.2	342.6	84.3	1.000063
43000.0	172.8	-57.3		279.0	572.3	344.1	81.1	1.000062
43500.0	168.7	-58.0		270.2	571.5	345.1	77.0	1.000061
44000.0	164.7	-58.9		267.8	570.3	346.2	72.9	1.000060
44500.0	160.8	-60.3		260.1	568.4	347.4	68.8	1.000059
45000.0	156.9	-61.5		250.2	566.8	347.1	66.0	1.000058
45500.0	153.1	-62.5		250.2	565.4	345.1	64.5	1.000056
46000.0	149.4	-63.5		240.1	564.1	343.0	63.0	1.000055
46500.0	145.7	-63.8		242.4	563.7	340.7	61.5	1.000054
47000.0	142.1	-64.1		230.8	563.3	337.7	60.0	1.000053
47500.0	138.7	-64.4		231.4	562.9	334.6	58.7	1.000052
48000.0	135.3	-64.7		220.1	562.5	332.3	56.8	1.000050
48500.0	132.0	-65.9		210.7	563.6	331.4	53.8	1.000049

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

STATION ALTITUDE 4051.00 FEET MSL
7 OCT. 76
ASCENSION I.O. 304

UPPER AIR DATA
28100 J0304
JALLEN

WSTM SITE COORDINATES
450491.60 FEET E
4 4023.05 FEET N

TABLE VI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
49000.0	126.8	-62.9		215.4	564.8	330.3	50.8	1.000048
49500.0	125.7	-62.0		207.4	566.1	329.4	46.9	1.000046
50000.0	122.6	-61.1		201.5	567.3	328.7	42.3	1.000045
50500.0	119.6	-60.2		195.7	568.5	327.7	37.7	1.000044
51000.0	116.8	-60.8		191.6	567.7	325.5	33.4	1.000043
51500.0	113.9	-61.9		187.9	566.3	322.5	29.3	1.000042
52000.0	111.2	-62.9		184.2	564.8	318.6	25.2	1.000041
52500.0	108.5	-64.3		180.9	563.0	313.2	21.1	1.000040
53000.0	105.8	-64.0		176.2	563.5	305.3	17.0	1.000039
53500.0	103.2	-63.9		171.8	563.6	302.1	16.0	1.000038
54000.0	100.7	-64.5		166.1	562.7	304.0	16.5	1.000037
54500.0	98.2	-65.3		164.6	561.7	305.8	17.0	1.000037
55000.0	95.8	-66.1		161.2	560.5	314.1	18.9	1.000036
55500.0	93.4	-67.0		157.9	559.4	321.0	21.2	1.000035
56000.0	91.1	-66.7		153.7	559.8	325.8	22.9	1.000034
56500.0	88.9	-64.5		149.4	562.6	328.0	22.7	1.000033
57000.0	86.7	-59.8		141.6	569.0	331.9	22.5	1.000032
57500.0	84.7	-58.6		136.2	573.3	333.5	21.7	1.000030
58000.0	82.7	-55.5		132.3	574.7	334.0	20.3	1.000029
58500.0	80.7	-50.9		130.0	572.9	334.6	18.9	1.000029
59000.0	78.8	-58.3		127.8	571.0	335.8	16.8	1.000028
59500.0	76.9	-59.7		125.5	569.2	337.8	14.2	1.000028
60000.0	75.1	-60.6		123.1	568.0	341.5	12.7	1.000027
60500.0	73.3	-61.0		120.3	567.5	346.5	12.9	1.000027
61000.0	71.5	-61.4		117.6	567.0	350.2	13.5	1.000026
61500.0	69.8	-61.6		114.9	566.6	352.1	14.7	1.000026
62000.0	68.1	-60.7		111.7	567.8	355.4	14.3	1.000025
62500.0	66.5	-59.8		108.6	569.0	9.0	9.4	1.000024
63000.0	64.9	-59.0		105.6	570.2	38.6	5.6	1.000023
63500.0	63.3	-58.1		102.6	571.3	96.2	3.3	1.000023

STATION ALTITUDE 4051.00 FEET MSL
7 OCT. 76 1123 HRS MDT
ASCENSION IS. 004

UPPER AIR DATA
2810000004
JALLEN

WSTM SITE COORDINATES
450491.60 FEET E
454023.05 FEET N

TABLE VI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
64000.0	61.8	-57.4		99.9	572.2	148.2	5.3	1.000022
64500.0	60.4	-56.5		99.0	570.7	174.0	6.4	1.000022
65000.0	58.9	-58.3		99.5	571.1	127.8	8.0	1.000021
65500.0	57.6	-57.5		99.0	572.1	191.1	8.8	1.000021
66000.0	56.2	-56.8		99.5	573.0	194.0	9.2	1.000020
66500.0	54.9	-56.1		89.1	574.0	197.3	8.5	1.000020
67000.0	53.6	-55.3		89.7	575.0	199.5	8.0	1.000019
67500.0	52.3	-54.6		89.4	576.0	198.6	8.1	1.000019
68000.0	51.1	-53.9		81.2	576.9	196.3	8.0	1.000018
68500.0	49.9	-55.5		79.8	574.8	191.3	7.4	1.000018
69000.0	48.7	-55.4		77.9	574.9	197.5	4.6	1.000017
69500.0	47.6	-55.2		76.1	575.1	308.6	2.9	1.000017
70000.0	46.5	-55.1		74.2	575.3	333.8	7.1	1.000017
70500.0	45.4	-55.0		72.5	575.5	331.8	8.6	1.000016
71000.0	44.3	-54.8		70.7	575.6	329.3	6.7	1.000016
71500.0	43.3	-54.7		69.0	575.6	309.0	3.4	1.000015
72000.0	42.3	-54.6		67.4	576.0	199.1	3.0	1.000015
72500.0	41.3	-54.4		65.8	576.2	194.0	3.2	1.000015
73000.0	40.3	-54.3		64.2	576.3	189.6	3.4	1.000014
73500.0	39.4	-54.2		62.7	576.5	196.2	3.1	1.000014
74000.0	38.5	-54.0		61.2	576.7	205.0	2.6	1.000014
74500.0	37.6	-53.9		59.7	576.9	196.0	3.2	1.000013
75000.0	36.7	-53.8		58.3	577.0	186.8	3.8	1.000013
75500.0	35.8	-53.6		56.9	577.2	181.5	5.1	1.000013
76000.0	35.0	-53.5		55.5	577.4	178.5	6.6	1.000012
76500.0	34.2	-52.5		54.0	578.7	169.4	8.3	1.000012
77000.0	33.4	-51.4		52.5	580.1	160.8	10.5	1.000012
77500.0	32.6	-51.0		51.2	580.6	155.5	10.6	1.000011
78000.0	31.9	-51.3		50.1	580.2			1.000011
78500.0	31.1	-51.6		49.0	579.8			1.000011

UPPER A.C. DATA
2810000004
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
7 OCT. 76
ASCENSION I.O. 304

W.SIM SITE COORDINATES
450491.60 FEET E
454023.05 FEET N

TABLE VI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND METERS PER SECOND	WIND DATA DIRECTION DEGREES (TD)	SPEED KNOTS	INDEX OF REFRACTION
79000.0	30.4	-51.9			47.9	579.4		1.000011

STATION ALTITUDE 4051.00 FEET MSL
 7 OCT. 76
 ASCENSION 110. 304
 1123 HRS MDT
 JALLEN
 2610030364
 JALLEN
 40491.00 FEET L
 4023.05 FEET L

TABLE VII

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUMID. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES (TN)	SPEED KNOTS
650.0	5145.	8.4	-4.4	41.	23.8	24.0
600.0	6775.	3.7	-7.5	44.	35.0	22.9
750.0	8486.	.8	-10.1	44.	38.3	16.9
700.0	10290.	-3.7	-13.1	48.	24.8	14.0
650.0	12195.	-8.0	-13.4	65.	4.4	17.6
600.0	14221.	-11.0	-21.2	42.	339.9	28.0
550.0	16432.	-9.2	-25.0	25.	334.6	44.4
500.0	18836.	-11.6	-26.3	27.	343.3	65.7
450.0	21462.	-16.1	-30.5	28.	342.0	78.5
400.0	24338.	-22.1	-35.2	29.	343.5	86.0
350.0	27517.	-27.6	-41.0	26.	343.2	94.7
300.0	31089.	-36.6	-48.1	29.	338.4	107.2
250.0	35147.	-46.4			333.6	106.2
200.0	39881.	-57.9			336.6	98.5
175.0	42647.	-57.0			343.3	82.8
150.0	45805.	-63.4			343.4	63.2
125.0	49475.	-61.8			329.3	46.0
100.0	53990.	-64.7			304.5	16.6
80.0	58512.	-57.4			334.8	18.4
70.0	61244.	-61.7			351.8	14.5
60.0	64414.	-58.8			178.4	6.8
50.0	68217.	-55.5			192.0	7.5
40.0	72897.	-54.2			191.1	3.3
30.0	78991.	-52.1				

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

STATION ALTITUDE 4946.00 FEET MSL
7 OCT. 76
ASCENSION NO. 236

SIGNIFICANT LEVEL DATA

20100.0236
STATION

ASTM S.I.E COORDINATES
403723.00 FEET E
7.1403.00 FEET N

TABLE VIII

PRESSURE GEOMETRIC ALTITUDE MILLIBARS FSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR	DEWPOINT	
	DEGREES CENTIGRADE		
650.0	4940.0	11.8	-0.6
650.8	5170.5	9.8	-5.3
609.8	6503.8	4.3	-8.1
739.3	6903.5	-2.9	-10.9
700.0	10319.3	-6.4	-13.7
626.8	13129.4	-11.8	-11.9
618.3	13473.4	-11.4	-14.4
609.3	13843.4	-11.0	-11.9
592.8	14534.0	-12.9	-22.6
575.3	15225.8	-12.5	-14.7
539.6	16904.1	-9.3	-12.2
500.6	18799.8	-12.5	-13.8
479.3	19886.5	-15.0	-16.1
435.8	22239.0	-18.0	-19.1
400.3	24310.5	-22.5	-13.4
300.1	31047.7	-38.5	-46.1
291.3	31718.1	-40.6	-49.8
250.3	35068.4	-47.6	
215.8	38234.7	-56.0	
200.1	39810.7	-57.8	
192.7	40600.3	-54.2	
150.3	45732.2	-64.1	
129.3	46752.4	-66.5	
110.3	51950.4	-63.1	
100.1	53917.6	-63.5	
98.0	54349.3	-61.4	
90.0	56083.1	-63.5	
83.0	57742.0	-58.8	
70.0	61250.0	-61.4	
67.0	62144.6	-62.5	

STATION ALTITUDE 4940.00 FEET MSL
 7 OCT. 76
 ASCENDING 236

SIGNIFICANT LEVEL DATA
 28100.0230
 STATION

WSTM SITE COORDINATES
 403783.00 FEET E
 7 1403.00 FEET N

TABLE VIII (CONT)

PRESSURE	GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
64.0	63084.6	-59.4		
50.0	68237.7	-55.2		
45.0	70452.5	-56.6		
34.0	76375.7	-53.0		

STATION ALTITUDE 4940.00 FEET MSL
7 OCT. 76 1210 HRS MDT
ASCENSION NO. 236

UPPER AIR DATA
2810040230
STATION

WSTM SITE COORDINATES
403783.00 FEET E
711403.00 FEET N

TABLE IX

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUB. C METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
4940.0	858.0	11.8	27.0	1047.2	658.2	30.0	17.1	1.000251
5000.0	856.1	11.3	28.8	1046.8	657.6	30.9	17.1	1.000251
5500.0	840.5	8.4	35.5	1030.0	654.3	38.1	17.5	1.000250
6000.0	825.1	6.4	37.7	1026.5	651.9	44.8	18.1	1.000246
6500.0	809.9	4.3	40.0	1015.3	649.4	51.1	19.0	1.000243
7000.0	794.7	2.8	42.9	1001.7	647.7	56.7	20.0	1.000239
7500.0	779.8	1.3	45.6	986.3	645.9	61.1	21.1	1.000236
8000.0	765.1	-2	48.7	975.1	644.1	62.5	21.6	1.000232
8500.0	750.8	-1.7	51.6	962.1	642.3	63.8	22.1	1.000229
9000.0	736.6	-3.1	54.1	949.1	640.6	63.0	20.9	1.000225
9500.0	722.5	-4.4	54.6	935.3	639.1	60.8	19.0	1.000221
10000.0	708.7	-5.6	55.5	921.7	637.6	53.4	17.5	1.000217
10500.0	695.0	-6.7	58.6	907.8	636.2	44.0	16.8	1.000214
11000.0	681.5	-7.7	66.4	893.3	635.1	34.7	17.7	1.000211
11500.0	668.3	-8.7	74.1	879.0	634.0	26.0	19.1	1.000209
12000.0	655.3	-9.6	81.7	865.0	632.9	16.1	20.6	1.000206
12500.0	642.5	-10.6	89.4	851.2	631.7	6.6	22.6	1.000203
13000.0	630.0	-11.6	97.0	837.7	630.6	358.9	26.9	1.000200
13500.0	617.6	-11.4	33.5	821.5	630.5	353.1	30.2	1.000198
14000.0	605.5	-11.4	40.9	805.5	630.5	349.7	34.3	1.000185
14500.0	593.6	-12.6	43.6	793.8	628.6	349.2	37.6	1.000182
15000.0	581.9	-12.7	38.4	777.7	629.0	349.5	41.3	1.000178
15500.0	570.4	-12.1	34.9	763.7	629.0	352.4	46.9	1.000174
16000.0	559.3	-11.1	34.6	743.0	630.9	354.6	52.7	1.000170
16500.0	548.3	-10.1	34.2	725.6	632.1	355.5	58.6	1.000167
17000.0	537.6	-9.5	34.2	709.7	632.8	356.2	64.5	1.000164
17500.0	527.0	-10.3	35.3	696.0	631.8	357.0	68.2	1.000161
18000.0	516.7	-11.1	36.3	680.5	630.8	357.7	71.4	1.000158
18500.0	506.6	-12.0	37.4	673.3	629.6	356.1	76.1	1.000155
19000.0	496.6	-13.0	38.0	664.5	628.6	354.7	80.1	1.000153

STATION ALTITUDE 4940.00 FEET MSL
7 OCT. 76 1210 HRS MDT
ASCENSION NO. 236

UPPER AIR DATA
28100+0230
STALLION

WSIM SITE COORDINATES
403783.00 FEET E
701403.00 FEET N

TABLE IX (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
19500.0	486.8	-14.1	38.0	654.2	627.2	352.1	84.1	1.000150
20000.0	477.1	-15.1	38.0	643.8	625.9	349.1	88.1	1.000147
20500.0	467.6	-15.8	37.7	632.5	625.2	347.2	90.8	1.000145
21000.0	458.2	-16.4	37.5	621.4	624.4	346.6	91.4	1.000142
21500.0	449.0	-17.1	37.3	610.5	623.6	346.6	91.7	1.000139
22000.0	440.0	-17.7	37.1	599.8	622.8	347.3	91.7	1.000137
22500.0	431.2	-18.6	36.9	589.7	621.7	347.9	92.6	1.000134
23000.0	422.4	-19.7	36.6	580.3	620.4	348.5	95.2	1.000132
23500.0	413.8	-20.7	36.4	570.9	619.1	349.4	97.5	1.000130
24000.0	405.4	-21.8	36.1	561.8	617.7	350.9	99.3	1.000127
24500.0	397.1	-22.9	36.0	552.7	616.3	352.4	101.2	1.000125
25000.0	388.7	-24.1	35.9	543.6	614.9	353.8	100.7	1.000123
25500.0	380.4	-25.3	35.8	534.6	613.4	355.2	100.2	1.000121
26000.0	372.4	-26.5	35.7	525.9	611.9	356.0	100.5	1.000119
26500.0	364.5	-27.7	35.7	517.2	610.4	356.7	101.0	1.000117
27000.0	356.8	-28.9	35.6	508.8	608.9	356.2	101.8	1.000115
27500.0	349.3	-30.1	35.5	500.5	607.4	355.3	102.7	1.000113
28000.0	341.9	-31.3	35.5	492.3	606.0	353.3	102.7	1.000111
28500.0	334.6	-32.4	35.4	484.3	604.5	350.9	102.5	1.000109
29000.0	327.6	-33.6	35.3	476.4	603.0	348.4	103.5	1.000107
29500.0	320.6	-34.8	35.2	468.6	601.5	346.0	105.1	1.000105
30000.0	313.9	-36.0	35.2	461.0	600.0	344.6	108.5	1.000103
30500.0	307.2	-37.2	35.1	453.5	598.5	343.8	112.7	1.000102
31000.0	300.7	-38.4	35.0	446.2	596.9	343.1	116.2	1.000100
31500.0	294.1	-39.9	35.7	439.3	595.0	342.5	119.4	1.000098
32000.0	287.6	-41.2	33.0**	431.9	593.4	341.3	118.5	1.000097
32500.0	281.2	-42.2	27.6**	424.2	592.0	339.6	114.4	1.000095
33000.0	274.9	-43.3	22.2**	416.5	590.7	337.5	110.0	1.000093
33500.0	268.7	-44.3	16.9**	409.1	589.3	335.2	105.0	1.000091
34000.0	262.7	-45.4	11.5**	401.8	588.0	334.5	109.1	1.000090

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

UPPER AIR DATA
2810040230
STATION
TABLE IX (CONT)

STATION ALTITUDE 4940.00 FEET MSL
7 OCT. 76
ASCENSION NO. 236

WSTM SITE COORDINATES
403783.00 FEET E
701403.00 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
34500.0	256.8	-40.4	6.1**	394.6	586.0	333.9	113.1	1.000088
35000.0	251.1	-47.5	.7**	387.5	583.3	333.5	115.9	1.000086
35500.0	245.3	-43.7		383.8	583.0	333.1	118.6	1.000085
36000.0	239.6	-50.1		374.2	581.9	332.3	117.4	1.000083
36500.0	234.1	-51.4		367.7	580.1	331.3	115.7	1.000082
37000.0	228.6	-52.7		361.4	578.4	330.9	114.4	1.000080
37500.0	223.4	-54.1		355.1	576.7	330.5	113.2	1.000079
38000.0	218.2	-55.4		349.0	574.9	331.3	111.9	1.000078
38500.0	213.1	-56.3		342.3	573.7	332.2	110.5	1.000076
39000.0	208.0	-56.9		335.1	572.9	333.9	109.0	1.000075
39500.0	203.1	-57.4		328.0	572.2	335.6	107.7	1.000073
40000.0	198.3	-56.9		319.5	572.8	337.5	105.8	1.000071
40500.0	193.6	-54.7		308.7	575.9	339.8	102.8	1.000069
41000.0	189.0	-55.0		301.8	575.4	342.1	100.9	1.000067
41500.0	184.5	-55.9		295.9	574.2	344.6	96.4	1.000066
42000.0	180.1	-56.9		290.1	572.9	347.2	92.2	1.000065
42500.0	175.8	-57.9		284.4	571.6	349.7	88.1	1.000063
43000.0	171.6	-58.8		278.9	570.3	351.0	83.5	1.000062
43500.0	167.5	-59.8		273.4	569.0	352.4	79.0	1.000061
44000.0	163.5	-60.8		268.1	567.6	352.3	72.3	1.000060
44500.0	159.5	-61.7		262.9	566.5	351.4	64.6	1.000059
45000.0	155.7	-62.7		257.8	565.2	349.6	56.4	1.000057
45500.0	152.0	-63.7		252.8	563.9	344.3	46.6	1.000056
46000.0	148.3	-64.3		247.4	563.0	336.4	37.4	1.000055
46500.0	144.7	-64.7		241.8	562.5	326.6	37.3	1.000054
47000.0	141.1	-65.1		236.3	561.9	318.3	39.3	1.000053
47500.0	137.6	-65.5		230.9	561.4	318.8	47.8	1.000051
48000.0	134.2	-65.9		225.6	560.8	319.6	55.1	1.000050
48500.0	130.9	-66.3		220.5	560.3	321.3	59.0	1.000049
49000.0	127.7	-66.2		215.0	560.4	323.0	60.5	1.000048

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

UPPER AIR DATA
28100.0230
STATION

STATION ALTITUDE 4940.00 FEET MSL
7 OCT. 76
ASCENSION NO. 236

WSTM SITE COORDINATES
403703.00 FEET E
701403.00 FEET N

TABLE IX (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS		WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE							
49500.0	124.6	-65.7			20.2	561.1		325.0	59.1	1.000047
50000.0	121.5	-65.2			20.6	561.8		327.6	58.2	1.000045
50500.0	118.5	-64.6			19.1	562.5		330.7	58.0	1.000044
51000.0	115.6	-64.1			19.7	563.3		332.5	57.6	1.000043
51500.0	112.8	-63.6			18.5	564.0		333.9	57.2	1.000042
52000.0	110.0	-63.1			18.5	564.6		334.3	55.0	1.000041
52500.0	107.4	-63.2			17.1	564.5		332.6	49.7	1.000040
53000.0	104.7	-63.3			17.9	564.3		330.8	44.3	1.000039
53500.0	102.2	-63.4			16.7	564.2		325.1	36.6	1.000038
54000.0	99.7	-63.1			16.3	564.6		315.9	29.2	1.000037
54500.0	97.3	-61.6			16.2	566.7		306.7	24.7	1.000036
55000.0	94.9	-62.2			15.7	565.8		299.7	22.5	1.000035
55500.0	92.6	-62.8			15.4	565.0		296.5	20.3	1.000034
56000.0	90.4	-63.4			15.1	564.2		305.0	19.2	1.000033
56500.0	88.2	-62.3			14.7	565.7		314.7	17.9	1.000032
57000.0	86.1	-60.9			14.3	567.6		327.1	14.9	1.000031
57500.0	84.0	-59.5			13.9	569.5		344.6	12.8	1.000030
58000.0	82.0	-59.0			13.3	570.1		356.4	11.2	1.000030
58500.0	80.0	-59.4			13.4	569.6		10.0	9.9	1.000029
59000.0	78.1	-59.7			12.5	569.1		18.2	9.2	1.000028
59500.0	76.2	-60.1			12.6	568.6		22.4	8.7	1.000028
60000.0	74.4	-60.5			12.1	568.1		25.1	8.5	1.000027
60500.0	72.6	-60.8			11.9	567.6		24.7	8.7	1.000027
61000.0	70.9	-61.2			11.5	567.1		24.5	8.8	1.000026
61500.0	69.1	-61.7			11.3	566.5		25.2	8.7	1.000025
62000.0	67.5	-62.3			11.5	565.7		25.9	8.7	1.000025
62500.0	65.8	-61.3			10.3	567.0		25.4	7.9	1.000024
63000.0	64.3	-59.7			10.4	569.2		24.4	6.8	1.000023
63500.0	62.7	-59.1			10.1	570.0		19.5	5.7	1.000023
64000.0	61.3	-58.7			9.5	570.6		1.4	4.6	1.000022

STATION ALTITUDE 4940.00 FEET MSL
 7 OCT. 76
 ASCENSION I.O. 200
 UPPER AIR DATA
 28100.00230
 STALLION
 WSTM SITE COORDINATES
 403783.00 FEET E
 701402.00 FEET N

TABLE IX (CONT)

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(TL)	SPEED KNOTS	
64500.0	59.8	-50.2			90.9	571.1	336.0	4.1	1.000022
65000.0	58.4	-57.8			94.5	571.0	313.7	4.2	1.000021
65500.0	57.0	-57.4			92.1	572.2	295.7	4.3	1.000021
66000.0	55.7	-57.0			89.7	572.7	283.9	5.5	1.000020
66500.0	54.3	-50.6			87.4	573.3	277.6	5.4	1.000019
67000.0	53.1	-50.2			85.2	573.8	271.2	5.3	1.000019
67500.0	51.8	-55.8			83.0	574.3	268.2	5.3	1.000018
68000.0	50.6	-55.4			80.9	574.9	265.9	5.2	1.000018
68500.0	49.4	-55.4			79.0	574.9	263.1	5.2	1.000018
69000.0	48.2	-55.7			77.2	574.5	259.7	5.3	1.000017
69500.0	47.1	-50.0			75.5	574.1	256.5	5.5	1.000017
70000.0	46.0	-50.3			73.9	573.7	249.2	5.6	1.000016
70500.0	44.9	-50.6			72.2	573.3	242.4	5.8	1.000016
71000.0	43.8	-50.3			70.4	573.7	246.3	5.4	1.000016
71500.0	42.8	-56.0			68.7	574.1	257.4	5.7	1.000015
72000.0	41.8	-55.7			67.0	574.5	270.4	6.0	1.000015
72500.0	40.8	-55.4			65.3	574.9	289.5	7.1	1.000015
73000.0	39.9	-55.1			63.7	575.3	302.5	8.7	1.000014
73500.0	39.0	-54.7			62.1	575.7	307.7	9.5	1.000014
74000.0	38.0	-54.4			60.6	576.1	309.3	10.2	1.000013
74500.0	37.2	-54.1			59.1	576.5	310.8	10.6	1.000013
75000.0	36.3	-53.8			57.6	576.9			1.000013
75500.0	35.4	-53.5			56.2	577.3			1.000013
76000.0	34.6	-53.2			54.8	577.7			1.000012

STATION ALTITUDE 4940.00 FEET MSL
 7 OCT. 76
 ASCENSION NO. 236
 1210 HRS MDT
 CALIBRATION LEVELS
 26100.0230
 STATION
 WSTM SITE COORDINATES
 403763.00 FEET E
 701403.00 FEET N

TABLE X

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT DEGREES	PERCENT	DIRECTION DEGREES (TN)	SPEED KNOTS	
650.0	5195.	9.7	-5.0	34.	33.7	17.2	
600.0	6826.	3.3	-8.4	42.	54.8	19.7	
750.0	8527.	-1.8	-10.0	52.	63.9	22.1	
700.0	10313.	-6.4	-13.7	56.	47.5	16.9	
650.0	12202.	-10.0	-12.1	45.	11.9	21.4	
600.0	14219.	-12.1	-22.0	42.	349.5	35.8	
550.0	16404.	-10.2	-23.0	24.	355.4	57.7	
500.0	18810.	-12.6	-23.9	38.	355.2	78.7	
450.0	21424.	-17.0	-28.1	37.	346.6	91.7	
400.0	24296.	-22.5	-33.5	36.	351.9	100.6	
350.0	27465.	-30.0	-40.0	36.	355.3	102.7	
300.0	31005.	-38.5	-48.2	35.	343.0	116.6	
250.0	35031.	-47.7			333.4	116.4	
200.0	39740.	-57.8			336.7	106.9	
175.0	42525.	-58.0			350.0	87.1	
150.0	45666.	-64.1			340.5	41.6	
125.0	49305.	-65.8			324.7	59.3	
100.0	53791.	-63.4			317.4	30.1	
80.0	58332.	-59.4			9.8	9.9	
70.0	61062.	-61.4			24.9	8.8	
60.0	64214.	-58.3			340.8	4.1	
50.0	68006.	-55.2			264.8	5.2	
40.0	72665.	-55.1			300.7	8.4	

STATION ALTITUDE 3939.00 FEET MSL
7 OCT. 76
ASCENSION NO. 079

SIGNIFICANT LEVEL DATA
28100.0079
WHITE SANDS

WSTM SITE COORDINATES
48580.00 FEET E
185045.00 FEET N

TABLE XI

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEW POINT CENTIGRADE	
887.4	3969.0	14.4	-3.4	29.0
850.0	5171.3	9.5	-5.6	34.0
728.2	9306.3	-8	-9.9	50.0
700.0	10338.7	-3.0	-9.0	63.0
678.6	11144.1	-5.0	-9.8	69.0
657.2	11969.7	-6.7	-10.4	75.0
647.6	12348.3	-5.8	-10.2	71.0
620.2	13457.2	-8.2	-15.6	55.0
608.8	13931.7	-7.0	-28.5	16.0
581.8	15095.3	-6.5	-29.5	14.0
539.2	17035.1	-10.0	-31.0	16.0
520.6	17924.8	-10.0	-31.0	16.0
500.0	18944.7	-11.8	-31.8	17.0
471.2	20433.5	-13.5	-33.9	16.0
400.0	24460.2	-22.5	-41.3	16.0
388.2	25180.4	-24.6	-43.1	16.0
368.4	26560.9	-26.0	-44.2	16.0
333.4	26781.9	-32.0	-48.7	17.0
300.0	31203.7	-38.3		
278.2	32893.8	-43.3		
250.0	35233.9	-48.9		
218.6	38093.6	-55.6		
204.6	39478.3	-57.0		
200.0	39954.7	-55.1		
194.4	40554.0	-53.8		
177.2	42498.9	-57.4		
161.0	44473.6	-62.1		
150.0	45907.0	-64.6		
133.4	48248.2	-68.2		
116.8	50907.3	-63.7		

STATION ALTITUDE 3989.00 FEET MSL
 7 OCT. 76
 ASCENSION NO. 679

SIGNIFICANT LEVEL DATA
 28100 L0079
 WHITE SANDS

WESTM SITE COORDINATES
 478580.00 FEET E
 105045.00 FEET N

TABLE XI (CONT)

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR	DEW POINT DEGREES CENTIGRADE	
104.6	53119.6	-67.4	
100.0	54016.9	-65.9	
98.0	54421.9	-65.5	
92.4	55619.6	-59.5	
76.0	59632.2	-61.8	
70.0	61321.8	-59.5	
50.0	68290.7	-58.4	
45.0	70504.4	-53.6	
30.0	79133.4	-52.9	
29.0	79855.9	-53.3	

UPPER AIR DATA
28100_0679
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
7 OCT. 76
ASCENSION NO. 679

WSTM SITE COORDINATES
408580.00 FEET E
135045.00 FEET N

TABLE XII

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND M/SEC	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
3989.0	887.4	14.4	-3.4	29.0	1072.9	661.3	350.0	13.0	1.000261
4000.0	887.0	14.4	-3.4	29.0	1072.6	661.2	350.1	13.1	1.000261
4500.0	871.0	12.3	-4.3	31.2	1061.0	658.8	355.0	14.9	1.000257
5000.0	855.3	10.2	-5.2	33.3	1049.6	656.4	358.8	16.9	1.000253
5500.0	839.6	8.7	-5.6	35.3	1036.0	654.6	2.5	18.6	1.000250
6000.0	824.1	7.4	-6.2	37.2	1021.3	653.1	8.2	19.6	1.000246
6500.0	808.8	6.2	-6.7	39.1	1005.9	651.7	9.5	19.2	1.000242
7000.0	793.3	4.9	-7.2	41.1	992.7	650.2	8.4	18.0	1.000239
7500.0	779.1	3.7	-7.7	43.0	975.7	648.8	5.0	16.2	1.000235
8000.0	764.7	2.5	-8.3	44.9	965.0	647.3	.0	14.4	1.000231
8500.0	750.5	1.2	-8.9	46.9	951.4	645.8	354.5	14.3	1.000228
9000.0	736.6	-0.0	-9.5	48.8	936.1	644.3	349.2	14.7	1.000224
9500.0	722.8	-1.2	-9.7	52.4	924.6	642.9	344.9	14.4	1.000221
10000.0	709.1	-2.3	-9.2	58.7	910.5	641.7	340.7	12.9	1.000219
10500.0	695.7	-3.4	-9.2	64.2	895.9	640.4	341.1	14.3	1.000216
11000.0	682.4	-4.6	-9.6	67.9	880.9	638.9	344.0	15.2	1.000212
11500.0	669.3	-5.7	-10.0	71.6	870.5	637.6	342.1	17.4	1.000209
12000.0	656.4	-6.6	-10.4	74.7	855.6	636.5	338.3	20.4	1.000206
12500.0	643.8	-6.1	-10.9	68.8	836.6	637.1	326.8	21.5	1.000201
13000.0	631.4	-7.2	-13.3	61.6	820.0	635.7	316.4	23.6	1.000196
13500.0	619.2	-8.1	-16.3	51.5	812.9	634.6	312.4	27.6	1.000190
14000.0	607.2	-7.0	-28.6	15.9	794.4	635.7	310.4	31.4	1.000180
14500.0	595.5	-6.8	-29.0	15.0	776.4	636.0	312.1	34.3	1.000176
15000.0	584.0	-6.5	-29.4	14.2	762.8	636.2	313.5	37.1	1.000173
15500.0	572.6	-7.2	-29.8	14.4	749.9	635.4	315.1	39.4	1.000170
16000.0	561.5	-8.1	-30.2	14.9	737.9	634.3	317.3	40.5	1.000167
16500.0	550.6	-9.0	-30.5	15.4	726.0	633.2	321.9	42.2	1.000164
17000.0	539.9	-9.9	-30.9	16.0	714.4	632.1	330.0	45.6	1.000162
17500.0	529.4	-10.0	-31.0	16.0	700.6	632.1	337.7	50.7	1.000159
18000.0	519.1	-10.1	-31.0	16.1	687.3	631.9	344.5	57.3	1.000156

STATION ALTITUDE 3909.00 FEET MSL
7 OCT. 76
ASCENSION NO. 079
1220 HRS MDT

UNREP. 2.00 MDT
201002007
WHITE SANDS

WST. SITE COORDINATES
4 0500.00 FEET E
1 5045.00 FEET N

TABLE XII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND M/SEC	DIRECTION DEGREES (T)	WIND SPEED KNOTS	INDEX OF REFRACTION
10500.0	508.9	-11.0	16.6	673.1	670.9	345.9	64.0	1.000153
19000.0	490.9	-11.9	17.0	665.0	629.8	345.2	69.7	1.000150
19500.0	489.1	-12.4	16.0	655.3	629.1	341.0	72.5	1.000148
20000.0	479.4	-13.0	16.3	641.8	628.4	337.7	75.1	1.000145
20500.0	469.9	-13.6	16.0	630.7	627.7	335.5	73.2	1.000142
21000.0	460.5	-14.6	16.0	620.7	626.3	333.1	71.1	1.000140
21500.0	451.2	-15.9	16.0	610.0	624.9	334.6	72.6	1.000138
22000.0	442.1	-17.0	16.0	601.1	623.0	336.0	73.0	1.000135
22500.0	433.2	-18.1	16.0	591.0	622.2	337.2	76.0	1.000133
23000.0	424.5	-19.2	16.0	581.3	620.8	338.2	79.2	1.000131
23500.0	415.9	-20.4	16.0	572.1	619.5	338.9	81.2	1.000129
24000.0	407.6	-21.5	16.0	564.0	618.1	339.3	81.6	1.000127
24500.0	399.3	-22.6	16.0	555.2	616.7	339.8	81.0	1.000125
25000.0	391.1	-24.1	16.0	547.0	614.9	340.0	81.0	1.000123
25500.0	383.0	-24.9	16.0	537.5	613.6	341.4	81.3	1.000121
26000.0	375.1	-25.4	16.0	527.4	613.2	342.0	80.0	1.000118
26500.0	367.3	-25.9	16.0	517.0	612.6	342.7	80.2	1.000116
27000.0	359.6	-27.2	16.2	509.3	611.0	342.5	80.4	1.000114
27500.0	352.1	-28.5	16.4	501.3	609.3	341.9	80.0	1.000112
28000.0	344.7	-29.9	16.6	493.5	607.6	340.7	83.2	1.000110
28500.0	337.4	-31.2	16.9	485.9	606.0	339.2	86.1	1.000109
29000.0	330.2	-32.6	15.5**	470.2	604.3	337.8	88.9	1.000107
29500.0	323.1	-33.9	12.0**	470.4	602.6	336.4	91.3	1.000105
30000.0	316.2	-35.2	8.4**	462.8	601.0	335.0	93.8	1.000103
30500.0	309.3	-36.5	4.9**	455.3	599.3	333.8	95.5	1.000102
31000.0	302.7	-37.8	1.4**	448.0	597.7	332.7	97.0	1.000100
31500.0	296.1	-39.2		440.8	595.9	331.6	98.4	1.000098
32000.0	289.5	-40.7		433.8	594.0	331.2	97.6	1.000097
32500.0	283.1	-42.1		427.0	592.1	330.8	96.8	1.000095
33000.0	276.9	-43.6		420.1	590.3	330.5	95.5	1.000094

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

STATION ALTITUDE 3989.00 FEET MSL
7 OCT. 76
ASCENSION NO. 079

UPPER AIR DATA
2810020679
WHITE SANDS

ASTM SITE COORDINATES
458580.00 FEET E
155045.00 FEET N

TABLE XII (CONT)

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	
33500.0	270.6	-44.8			412.7	588.8	330.4	94.5	1.000092
34000.0	264.5	-45.9			405.5	587.2	330.4	93.1	1.000090
34500.0	258.5	-47.1			395.5	585.7	330.3	93.7	1.000089
35000.0	252.7	-48.3			391.6	584.1	330.3	94.3	1.000087
35500.0	246.9	-49.5			384.6	582.6	330.4	94.1	1.000086
36000.0	241.2	-50.7			377.7	581.1	330.5	93.6	1.000084
36500.0	235.6	-51.9			370.9	579.5	330.9	94.3	1.000083
37000.0	230.1	-53.0			364.2	578.0	331.3	95.7	1.000081
37500.0	224.8	-54.2			357.6	576.4	331.9	96.2	1.000080
38000.0	219.6	-55.4			351.2	574.9	332.6	96.0	1.000078
38500.0	214.4	-56.0			344.0	574.1	333.3	95.8	1.000077
39000.0	209.3	-56.5			336.6	573.4	334.4	93.5	1.000075
39500.0	204.4	-56.9			329.3	572.9	335.6	90.7	1.000073
40000.0	199.6	-57.0			316.7	575.4	336.9	88.0	1.000071
40500.0	194.9	-53.9			309.7	576.8	338.0	83.8	1.000069
41000.0	190.3	-54.6			303.4	575.9	339.1	78.9	1.000068
41500.0	185.8	-55.6			297.5	574.7	340.3	74.2	1.000066
42000.0	181.5	-56.5			291.8	573.5	341.6	69.3	1.000065
42500.0	177.2	-57.4			285.1	572.2	342.1	63.7	1.000064
43000.0	172.9	-58.6			280.8	570.6	342.7	58.0	1.000063
43500.0	168.8	-59.8			275.6	569.1	343.3	52.5	1.000061
44000.0	164.7	-61.0			270.5	567.5	340.6	49.2	1.000060
44500.0	160.8	-62.1			265.5	565.9	337.5	46.1	1.000059
45000.0	156.9	-63.0			260.1	564.7	332.9	44.0	1.000058
45500.0	153.0	-63.9			254.8	563.6	325.5	44.6	1.000057
46000.0	149.3	-64.7			249.6	562.4	318.6	46.0	1.000056
46500.0	145.6	-65.5			244.3	561.4	315.0	50.6	1.000054
47000.0	142.0	-66.3			239.1	560.3	312.0	55.4	1.000053
47500.0	138.5	-67.0			234.1	559.3	311.6	56.2	1.000052
48000.0	135.1	-67.8			229.2	558.2	311.7	56.3	1.000051

STATION ALTITUDE 3989.00 FEET MSL
7 OCT. 76
ASCENSION I.O. 6/9

UPPER AIR DATA
2810020679
WHITE SANDS

WSIM SITE COORDINATES
488580.00 FEET E
145045.00 FEET N

TABLE XII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
48500.0	131.7	-67.8		225.4	558.3	312.4	55.5	1.000050
49000.0	128.5	-68.9		217.0	559.5	314.6	53.0	1.000048
49500.0	125.3	-68.1		210.8	560.6	316.9	50.6	1.000047
50000.0	122.2	-65.2		204.8	561.7	319.7	49.3	1.000046
50500.0	119.2	-64.4		198.9	562.9	322.6	48.7	1.000044
51000.0	116.3	-63.9		195.5	563.6	325.6	48.2	1.000043
51500.0	113.4	-64.7		189.5	562.5	326.9	46.9	1.000042
52000.0	110.6	-65.5		185.6	561.3	327.6	45.3	1.000041
52500.0	107.9	-66.4		181.7	560.2	328.4	43.6	1.000040
53000.0	105.2	-67.2		178.0	559.1	327.9	40.3	1.000040
53500.0	102.6	-66.8		175.2	559.7	326.6	36.1	1.000039
54000.0	100.1	-65.9		169.3	560.8	325.0	32.0	1.000037
54500.0	97.6	-65.1		165.5	561.9	323.3	28.1	1.000036
55000.0	95.3	-62.6		157.6	565.3	321.2	24.4	1.000035
55500.0	92.9	-60.1		152.0	568.6	318.4	20.6	1.000034
56000.0	90.7	-59.7		148.0	569.1	317.9	17.6	1.000033
56500.0	88.5	-60.0		144.7	568.8	318.7	14.9	1.000032
57000.0	86.4	-60.3		141.4	568.4	320.0	12.2	1.000031
57500.0	84.3	-60.6		138.2	568.0	326.1	10.7	1.000031
58000.0	82.3	-60.9		135.0	567.6	335.7	10.1	1.000030
58500.0	80.3	-61.2		132.0	567.2	346.2	9.7	1.000029
59000.0	78.4	-61.4		129.0	566.9	355.1	10.5	1.000029
59500.0	76.5	-61.7		126.0	566.5	1.1	12.1	1.000028
60000.0	74.7	-61.3		122.8	567.0	5.8	13.7	1.000027
60500.0	72.9	-60.6		119.4	567.9	8.4	14.0	1.000027
61000.0	71.1	-59.9		116.2	568.9	8.7	15.0	1.000026
61500.0	69.4	-59.5		113.1	569.5	9.0	15.1	1.000025
62000.0	67.7	-59.4		110.4	569.6	9.3	15.2	1.000025
62500.0	66.1	-59.3		107.7	569.7	8.4	13.0	1.000024
63000.0	64.6	-59.2		105.1	569.8	6.8	10.5	1.000023

STATION ALTITUDE 3969.00 FEET MSL
7 OCT. 76
ASCENSION I.O. 679

UPPER AIR DATA
2810020679
WHITE SANDS

WSTM SITE COORDINATES
48580.00 FEET E
15045.00 FEET N

TABLE XII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		DEGREES	CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
63500.0	63.0	-59.2			102.6	569.9	4.2	8.0	1.000023
64000.0	61.5	-59.1			100.1	570.0	359.5	5.4	1.000022
64500.0	60.0	-59.0			97.7	570.1	346.8	2.8	1.000022
65000.0	58.6	-58.9			95.3	570.2	271.8	1.2	1.000021
65500.0	57.2	-58.8			93.0	570.3	214.8	3.2	1.000021
66000.0	55.8	-58.8			90.7	570.4	227.8	3.7	1.000020
66500.0	54.5	-58.7			88.6	570.5	257.1	4.4	1.000020
67000.0	53.2	-58.6			86.4	570.6	243.7	5.2	1.000019
67500.0	51.9	-58.5			84.3	570.7	258.7	5.4	1.000019
68000.0	50.7	-58.4			82.3	570.8	275.4	5.9	1.000018
68500.0	49.5	-57.9			80.1	571.5	288.6	6.8	1.000018
69000.0	48.3	-58.9			77.9	572.9	297.8	7.4	1.000017
69500.0	47.2	-55.8			75.6	574.4	305.6	7.6	1.000017
70000.0	46.1	-54.7			73.5	575.8	312.9	7.9	1.000016
70500.0	45.0	-53.6			71.4	577.2	318.0	7.9	1.000016
71000.0	44.0	-53.6			69.7	577.3	320.0	6.8	1.000016
71500.0	42.9	-53.5			68.1	577.4	322.6	5.8	1.000015
72000.0	41.9	-53.5			66.5	577.4	325.5	4.5	1.000015
72500.0	41.0	-53.4			65.0	577.5	327.6	2.3	1.000014
73000.0	40.0	-53.4			63.4	577.5	21.5	.2	1.000014
73500.0	39.1	-53.4			62.0	577.6	135.0	1.8	1.000014
74000.0	38.2	-53.3			60.5	577.6	127.0	2.5	1.000013
74500.0	37.3	-53.3			59.1	577.7	122.5	3.2	1.000013
75000.0	36.4	-53.2			57.7	577.7	120.9	3.9	1.000013
75500.0	35.6	-53.2			56.4	577.8	127.5	4.2	1.000013
76000.0	34.8	-53.2			55.0	577.8	133.0	4.7	1.000012
76500.0	34.0	-53.1			53.8	577.9	137.5	5.1	1.000012
77000.0	33.2	-53.1			52.5	577.9	132.0	6.4	1.000012
77500.0	32.4	-53.0			51.3	578.0	129.5	7.7	1.000011
78000.0	31.6	-53.0			50.1	578.0	127.1	9.0	1.000011

STATION ALTITUDE 3989.00 FEET MSL
 7 OCT. 76
 ASCENSION NO. 679

UPPER AIR DATA
 2810020679
 WHITE SANDS

WSTM SITE COORDINATES
 488560.00 FEET E
 15045.00 FEET N

TABLE XII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
78500.0	30.9	-53.0		46.9	578.1			1.000011
79000.0	30.2	-52.9		47.8	578.2			1.000011
79500.0	29.5	-53.1		46.7	577.9			1.000010

STATION ALTITUDE 3909.00 FEET MSL
 7 OCT. 76
 ASCENSION NO. 079
 1220 HRS MDT
 WIND DIRECTION 170
 WIND SPEED 17.5
 WIND STATE COORDINATES
 4850.00 FEET E
 15045.00 FEET N

TABLE XIII

PRESSURE GEOPOTENTIAL MILLIBARS	FELT	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	REL. HUMIDITY PERCENT	WIND DATA	
					DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	5170.	9.5	-5.0	34.	359.9	17.5
800.0	6008.	5.5	-6.9	40.	5.8	18.5
750.0	6525.	1.2	-8.9	47.	354.2	14.3
700.0	10333.	-3.0	-9.9	63.	340.1	14.0
650.0	12244.	-6.0	-10.2	72.	333.2	21.1
600.0	14293.	-6.8	-28.0	15.	311.4	33.1
550.0	16516.	-9.1	-30.0	15.	322.4	42.3
500.0	18924.	-11.8	-31.0	17.	345.3	69.0
450.0	21553.	-16.0	-36.0	16.	334.8	72.2
400.0	24428.	-22.5	-41.0	16.	339.7	81.9
350.0	27604.	-28.0	-46.4	16.	341.8	81.1
300.0	31152.	-38.3			332.3	97.5
250.0	35168.	-46.9			330.3	94.3
200.0	39871.	-55.1			330.8	88.3
175.0	42663.	-58.0			342.4	80.8
150.0	45798.	-64.6			319.9	45.6
125.0	49416.	-66.0			317.1	50.5
100.0	53867.	-65.9			324.9	32.0
80.0	58408.	-61.2			347.7	9.7
70.0	61131.	-59.5			8.9	15.0
60.0	64299.	-59.0			340.9	2.8
50.0	68057.	-58.4			283.2	6.4
40.0	72742.	-53.4			17.3	.2
30.0	78824.	-52.0				

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