

ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/G 4/2
12814A LANCE MISSILE NUMBER 2714, ROUND NUMBER 288 AST.(U)
SEP 76

DR-926

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METEOROLOGICAL DATA REPORT

12814A LANCE
MISSILE NO. 2714, ROUND NO. 2
(30 September 1976)

BY

WSMR METEOROLOGICAL TEAM

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WHITE SANDS MISSILE RANGE, NEW MEXICO

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR-926	2. GOVT ACCESSION NO. <i>Number</i>	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 12814 LANCE MISSILE NO. 2714, ROUND NO. 288 AST		5. TYPE OF REPORT & PERIOD COVERED
7. AUTHOR(s) WSMR Meteorological Team		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS <i>Meteorological & data / rept.</i>		8. CONTRACT OR GRANT NUMBER(s) DA-Task 1T665702D127-02
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Command Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS <i>17 02</i>
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Command Ft. Monmouth, New Jersey		12. REPORT DATE Sept 1976
15. SECURITY CLASS. (of this report) UNCLASSIFIED		13. NUMBER OF PAGES 51
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
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) Meteorological data gathered for the launching of 12814 Lance, Missile Number 2714, Round Number 288 AST, are presented in tabular form.		

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INTRODUCTION

12814A Lance, Missile Number 2714, Round Number 288 AST, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1400 HRS MDT, 30 September 1976. The scheduled launch time was 1400 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	3,997.64	FEET/MSL
PRESSURE	881.8	MBS
TEMPERATURE	28.9	°C
RELATIVE HUMIDITY	19	%
DEW POINT	3.1	°C
DENSITY	1,015.5	GM/M ³
WIND SPEED	04	KNOTS
WIND DIRECTION	120	DEGREES
CLOUD COVER	.8	C1

TABLE I. SURFACE OBSERVATIONS TAKEN AT LC-33,
1400 HRS MDT/30 SEPTEMBER 1976.

ELEVATION	3,990.0	FEET/MSL
PRESSURE	882.0	MBS
TEMPERATURE	27.5	°C
RELATIVE HUMIDITY	19	%
DEW POINT	1.7	°C
DENSITY	1,017.0	GM/M ³
WIND SPEED	05	MPH
WIND DIRECTION	190	DEGREES
CLOUD COVER	8	Ci

TABLE II. SURFACE OBSERVATIONS TAKEN AT WSD,
1400 HRS MDT/30 SEPTEMBER 1976.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	170	3.0	2100	100	6.0
100		CALM	2200	110	7.0
200		CALM	2300	120	7.0
300	045	1.0	2400	125	5.0
400	100	3.0	2500	140	6.0
500	155	2.0	2600	125	5.0
600	115	1.0	2700	115	7.0
700	180	2.0	2800	105	10.0
800	075	2.0	2900	095	6.0
900	115	2.0	3000	115	9.0
1000	145	4.0	3100	115	9.0
1100	135	4.0	3200	125	8.0
1200	140	4.0	3300	125	7.0
1300	130	3.0	3400	125	7.0
1400	130	5.0	3500	115	8.0
1500	120	5.0	3600	120	7.0
1600	125	6.0	3700	125	8.0
1700	130	5.0	3800	120	7.0
1800	120	4.0	3900	130	6.0
1900	110	5.0	4000	120	7.0
2000	110	5.0	4100	125	6.0

TABLE III. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM LC-33, AT 1355 MDT/30 SEPTEMBER 1976
12814A LANCE, MISSILE NO. 2714, ROUND NO. 288 AST

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,302.67 Y = 185,283.13 Z = 3,989.47

APPROXIMATELY: 1/8 MILE SOUTH OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	125	6.0
4300	125	6.0
4400	130	7.0
4500	125	6.0
4600	125	6.0
4700	130	6.0
4800	135	5.0
4900	115	5.0
5000	120	4.0
5100	105	4.0
5200	105	4.0
5300	135	3.0
5400	135	3.0
5500	120	3.0
5600	090	2.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
5700	135	2.0
5800	070	
5900	105	
6000	075	
6100	090	2.0
6200	080	3.0
6300	100	4.0
6400	080	4.0
6500	110	3.0
6600	100	5.0
6700	105	6.0
6800	105	6.0
6900	095	6.0
7000	115	5.0

TABLE III. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR		CALM	2100	110	7.0
100		CALM	2200	130	7.0
200		CALM	2300	150	6.0
300	090	1.0	2400	115	7.0
400		CALM	2500	125	5.0
500		CALM	2600	120	7.0
600		CALM	2700	125	6.0
700	060	1.0	2800	120	6.0
800	070	1.0	2900	120	7.0
900		CALM	3000	155	8.0
1000	135	1.0	3100	130	9.0
1100	130	1.0	3200	130	10.0
1200		CALM	3300	130	10.0
1300		CALM	3400	135	8.0
1400		CALM	3500	130	8.0
1500		CALM	3600	140	7.0
1600	140	3.0	3700	130	8.0
1700	115	3.0	3800	125	8.0
1800	115	7.0	3900	135	8.0
1900	125	7.0	4000	130	9.0
2000	115	4.0	4100	140	10.0

TABLE IV. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM LC-33, AT 1408 MDT/30 SEPTEMBER 1976
12814A LANCE, MISSILE NO. 2714, ROUND NO. 288 AST

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,302.67 Y = 185,283.13 Z = 3,989.47

APPROXIMATELY: 1/8 MILE SOUTH OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	130	9.0
4300	130	7.0
4400	125	7.0
4500	115	6.0
4600	100	12.0
4700	115	11.0
4800	120	7.0
4900	125	8.0
5000	125	4.0
5100	130	4.0
5200	135	4.0
5300	140	3.0
5400	130	3.0
5500	130	2.0
5600	150	4.0
5700	160	3.0
5800	100	3.0
5900	110	3.0
6000	120	3.0
6100	100	4.0
6200	100	3.0
6300	140	3.0
6400	140	4.0
6500	125	5.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
6600	135	6.0
6700	130	7.0
6800	130	6.0
6900	125	7.0
7000	120	8.0
7100	130	7.0
7200	130	7.0
7300	120	7.0
7400	130	8.0
7500	130	10.0
7600	125	12.0
7700	125	13.0
7800	130	16.0
7900	135	15.0
8000	135	
8100	130	
8200	130	
8300	140	15.0
8400	140	13.0
8500	135	15.0
8600	135	13.0
8700	135	12.0
8800	135	8.0
8900	140	9.0

TABLE IV. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
9000	150	13.0
9100	155	20.0
9200	160	15.0
9300	165	
9400	165	
9500	160	
9600	160	
9700	150	14.0
9800	145	13.0
9900	135	10.0
10000	140	9.0
10100	145	11.0
10200	135	9.0
10300	145	10.0
10400	140	8.0
10500	145	8.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
10600	130	7.0
10700	140	9.0
10800	145	10.0
10900	145	9.0
11000	140	10.0
11100	135	8.0
11200	135	10.0
11300	135	9.0
11400	120	6.0
11500	115	7.0
11600	125	6.0
11700	125	4.0
11800	120	10.0
11900	135	9.0
12000	135	9.0

TABLE IV. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

STATION ALTITUDE 4051.00 FEET MSL
 30 SEP. 76 1240 HRS MDT
 ASCENSION NO. 293

SIGNIFICANT LEVEL DATA
 2740030293
 JALLEN

TABLE V

PRESSURE GEOMETRIC ALTITUDE MIL. IBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
880.7 4051.0	25.8	14.0	48.0
863.0 4634.2	22.4	.9	24.0
850.0 5066.2	21.5	.1	24.0
827.0 5842.1	18.9	-1.5	25.0
801.0 6738.6	17.0	-4.3	23.0
700.0 10451.9	8.6	-13.1	20.0
655.0 12245.5	5.5	-15.6	20.0
613.0 14021.5	4.6	-18.3	17.0
582.0 15404.9	2.5	-19.4	18.0
500.0 19371.8	-6.5	-26.2	19.0
485.0 20153.7	-7.0	-27.2	18.0
435.0 22903.0	-14.8	-33.2	19.0
411.0 24309.4	-17.2	-35.2	19.0
400.0 24976.2	-19.0	-36.7	19.0
357.0 27723.6	-26.0	-42.7	19.0
327.0 29792.7	-31.2	-45.2	21.0
300.0 31785.5	-35.4	-49.8	21.0
263.0 34777.1	-39.5		
250.0 35912.2	-42.5		
221.0 38610.7	-50.0		
216.0 39104.8	-48.8		
200.0 40757.4	-52.4		
193.0 41515.2	-53.1		
155.0 46048.0	-64.8		
150.0 46706.2	-65.7		
142.0 47801.7	-66.6		
124.0 50466.7	-72.5		
121.0 50944.2	-70.1		
111.0 52627.0	-72.3		
108.0 53159.8	-71.4		

WSTM SITE COORDINATES
450491.60 FEET E
464023.05 FEET N

SIGNIFICANT LEVEL DATA

2740070293

JALLEN

TABLE V (CONT)

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 76
ASCENSION NO. 293
1240 HRS MDT

PRESSURE GEOMETRIC ALTITUDE MIL. IBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
104.0	53893.9	-72.3	
100.0	54656.9	-71.3	
96.0	55451.2	-72.3	
89.0	55929.5	-69.9	
85.0	57834.0	-69.4	
82.0	58547.4	-56.1	
75.0	60335.1	-65.7	
70.0	61726.9	-63.3	
65.0	63234.3	-62.3	
58.0	65582.6	-57.8	
50.0	68685.2	-56.3	
30.0	79571.8	-49.5	
20.0	88418.3	-46.3	
19.5	88975.0	-46.4	

UPPER AIR DATA
2740030293
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 76
ASCENSION NO. 293

WSTM SITE COORDINATES
450491.60 FEET E
464023.05 FEET N

TABLE VI

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
4051.0	980.7	25.8	14.0	48.0	1019.2	675.9		190.0	3.1	1.000295
4200.0	876.1	24.9	11.1	41.9	1018.1	674.5				1.000283
4400.0	870.1	23.8	6.8	33.6	1016.4	672.7				1.000269
4500.0	864.0	22.6	1.8	25.4	1014.6	671.0				1.000255
4800.0	858.0	22.1	.6	24.0	1009.7	670.3				1.000253
5000.0	852.0	21.6	.2	24.0	1004.1	669.8				1.000251
5200.0	846.0	21.1	-.2	24.2	999.0	669.1				1.000249
5400.0	840.0	20.4	-.6	24.4	994.3	668.3				1.000247
5600.0	834.1	19.7	-1.0	24.7	989.6	667.6				1.000245
5800.0	828.2	19.0	-1.4	24.9	985.0	666.8				1.000244
6000.0	822.4	18.6	-2.0	24.6	979.7	666.2				1.000242
6200.0	816.5	18.1	-2.6	24.2	974.2	665.7				1.000240
6400.0	810.7	17.7	-3.2	23.8	968.8	665.2				1.000237
6600.0	805.0	17.3	-3.8	23.3	963.4	664.7				1.000235
6800.0	799.2	16.9	-4.4	23.0	958.0	664.1				1.000233
7000.0	793.4	16.4	-4.9	22.8	952.6	663.6				1.000231
7200.0	787.7	15.0	-5.3	22.6	947.3	663.1				1.000230
7400.0	782.0	15.5	-5.8	22.5	942.0	662.5	238.2		2.4	1.000228
7600.0	776.3	15.1	-6.3	22.3	936.7	662.0	235.1		2.8	1.000225
7800.0	770.7	14.6	-6.8	22.1	931.4	661.4	232.7		3.1	1.000224
8000.0	765.2	14.1	-7.2	22.0	926.2	660.9	230.8		3.5	1.000223
8200.0	759.6	13.7	-7.7	21.8	921.0	660.4	226.2		3.3	1.000221
8400.0	754.1	13.2	-8.2	21.7	915.8	659.8	218.4		2.8	1.000219
8600.0	748.7	12.8	-8.7	21.5	910.7	659.3	208.0		2.5	1.000218
8800.0	743.3	12.3	-9.1	21.3	905.5	658.8	194.6		2.2	1.000215
9000.0	737.9	11.9	-9.6	21.2	900.5	658.2	176.8		2.1	1.000214
9200.0	732.5	11.4	-10.1	21.0	895.4	657.7	155.1		2.6	1.000213
9400.0	727.2	11.0	-10.6	20.8	890.4	657.1	140.9		3.2	1.000211
9500.0	722.0	10.5	-11.0	20.7	885.4	656.6	132.0		4.0	1.000210
9800.0	716.8	10.1	-11.5	20.5	880.4	656.1	126.1		4.9	1.000208

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

STATION ALTITUDE 4051.00 FEET MSL
 30 SEP. 75
 ASCENSION NO. 293
 1240 HRS MDT
 UPPER AIR DATA
 274003C293
 JALLEN
 WSTM SITE COORDINATES
 453491.63 FEET E
 464023.05 FEET N
 TABLE VI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
10000.0	711.5	9.5	20.4	875.5	655.5	123.0	5.5	1.000237
10200.0	706.4	9.2	20.2	870.6	655.0	120.9	6.0	1.000205
10400.0	701.3	8.7	20.0	865.7	654.5	119.2	6.5	1.000204
10600.0	696.2	8.3	20.0	860.5	654.0	117.7	7.1	1.000202
10800.0	691.0	8.0	20.0	855.2	653.6	116.0	7.4	1.000201
11000.0	685.9	7.7	20.0	850.0	653.2	112.5	7.1	1.000199
11200.0	680.9	7.3	20.0	844.8	652.8	108.8	6.8	1.000198
11400.0	675.8	7.0	20.0	839.6	652.4	104.6	6.5	1.000197
11600.0	670.9	6.6	20.0	834.4	652.0	100.2	6.2	1.000195
11800.0	665.9	6.3	20.0	829.3	651.6	101.2	5.9	1.000194
12000.0	661.0	5.9	20.0	824.2	651.2	105.6	5.4	1.000193
12200.0	656.1	5.6	20.0	819.2	650.7	110.7	5.1	1.000191
12400.0	651.2	5.4	19.7	813.6	650.6	116.5	4.7	1.000190
12600.0	646.4	5.3	19.4	807.8	650.4	123.1	4.5	1.000188
12800.0	641.6	5.2	19.1	802.1	650.3	129.3	4.3	1.000187
13000.0	636.8	5.1	18.7	796.5	650.2	135.7	4.3	1.000185
13200.0	632.1	5.0	18.4	790.8	650.1	142.2	4.3	1.000184
13400.0	627.4	4.9	18.0	785.3	649.9	148.6	4.3	1.000183
13600.0	622.7	4.8	17.7	779.7	649.8	146.0	3.6	1.000181
13800.0	618.1	4.7	17.4	774.2	649.7	138.4	2.8	1.000180
14000.0	613.5	4.6	17.0	768.8	649.6	124.4	2.0	1.000178
14200.0	608.9	4.3	17.1	763.8	649.2	96.7	1.4	1.000177
14400.0	604.4	4.0	17.3	758.9	648.9	85.0	1.4	1.000176
14500.0	599.8	3.7	17.4	754.1	648.5	99.9	1.6	1.000175
14800.0	595.4	3.4	17.6	749.3	648.2	111.2	1.8	1.000174
15000.0	590.9	3.1	17.7	744.5	647.8	119.5	2.2	1.000173
15200.0	586.5	2.8	17.9	739.7	647.4	126.6	2.6	1.000171
15400.0	582.1	2.5	18.0	735.0	647.1	134.7	3.8	1.000170
15600.0	577.7	2.1	18.0	730.6	646.6	138.9	5.1	1.000169
15800.0	573.3	1.6	18.1	726.3	646.0	141.5	6.3	1.000168

STATION ALTITUDE 4051.00 FEET MSL
 30 SEP. 76
 ASCENSION NO. 293
 UPPER AIR DATA
 274000Z0293
 JALLEN
 TABLE VI (CONT)
 WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DENPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
16000.0	558.9	1.1	-20.4	18.2	721.9	645.5		143.1	7.6	1.000167
16200.0	564.6	.7	-20.7	18.2	717.6	644.9		144.1	8.3	1.000155
16400.0	560.2	.2	-21.1	18.3	713.3	644.4		144.9	8.3	1.000165
16600.0	555.0	-.2	-21.4	18.3	709.1	643.9		145.7	8.5	1.000154
16800.0	551.7	-.7	-21.9	18.4	704.9	643.3		146.5	8.7	1.000152
17000.0	547.5	-1.1	-22.1	18.4	700.7	642.8		143.2	8.8	1.000161
17200.0	543.3	-1.6	-22.5	18.5	696.5	642.2		135.0	8.8	1.000150
17400.0	539.2	-2.0	-22.8	18.5	692.3	641.7		127.1	8.9	1.000159
17600.0	535.1	-2.5	-23.2	18.6	688.2	641.1		119.5	9.3	1.000158
17800.0	531.0	-2.9	-23.5	18.6	684.1	640.6		112.6	9.8	1.000157
18000.0	527.0	-3.4	-23.9	18.7	680.1	640.1		109.8	9.2	1.000155
18200.0	522.9	-3.8	-24.2	18.7	676.0	639.5		106.7	8.6	1.000155
18400.0	519.0	-4.3	-24.5	18.9	672.0	639.0		103.2	8.1	1.000154
18600.0	515.0	-4.7	-24.9	18.8	668.0	638.4		99.1	7.6	1.000153
18800.0	511.1	-5.2	-25.2	18.9	664.1	637.9		98.4	6.6	1.000152
19000.0	507.2	-5.7	-25.6	18.9	660.1	637.3		104.4	5.1	1.000151
19200.0	503.3	-6.1	-25.9	19.0	656.2	636.8		115.2	3.6	1.000150
19400.0	499.5	-6.5	-26.3	19.0	652.2	636.3		137.6	2.5	1.000149
19600.0	495.5	-6.5	-26.5	18.7	647.5	636.2		178.2	2.1	1.000148
19800.0	491.7	-6.8	-26.8	18.5	642.7	636.0		184.4	2.4	1.000147
20000.0	487.9	-6.9	-27.0	18.2	638.1	635.8		185.8	2.7	1.000145
20200.0	484.1	-7.1	-27.3	18.0	633.7	635.6		186.9	2.9	1.000145
20400.0	480.3	-7.7	-27.8	18.1	630.0	634.9		187.9	3.2	1.000144
20600.0	476.5	-8.3	-28.2	18.2	626.4	634.2		187.6	3.5	1.000143
20800.0	472.8	-8.8	-29.5	18.2	622.8	633.5		182.3	3.9	1.000142
21000.0	469.0	-9.4	-29.1	18.3	619.2	632.8		178.0	4.3	1.000141
21200.0	465.3	-10.0	-29.5	18.4	615.7	632.1		174.5	4.8	1.000140
21400.0	461.7	-10.5	-29.9	18.5	612.2	631.5		171.7	5.2	1.000139
21600.0	458.0	-11.1	-30.4	18.5	608.6	630.8		171.5	5.7	1.000138
21800.0	454.4	-11.7	-30.9	18.6	605.2	630.1		173.5	6.1	1.000137

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 76
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UPPER AIR DATA
2740030293
JALLEN

WSTM SITE COORDINATES
450491.60 FEET E
464023.05 FEET N

TABLE VI (CONT)

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 DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
22000.0	450.8	-12.2	-31.2	18.7	601.7	629.4	175.3	6.5	1.000137
22200.0	447.3	-12.8	-31.7	18.7	598.3	628.7	176.9	6.9	1.000135
22400.0	443.7	-13.4	-32.1	18.8	594.9	628.0	178.3	7.3	1.000135
22600.0	440.2	-13.9	-32.5	18.9	591.5	627.3	184.2	7.6	1.000134
22800.0	436.8	-14.5	-33.0	19.0	588.1	626.6	190.3	8.0	1.000133
23000.0	433.3	-15.0	-33.3	19.0	584.5	626.1	195.8	8.4	1.000132
23200.0	429.8	-15.3	-33.6	19.0	580.5	625.7	200.7	9.0	1.000131
23400.0	426.4	-15.6	-33.9	19.0	576.6	625.2	205.1	9.4	1.000130
23600.0	422.9	-16.0	-34.2	19.0	572.8	624.8	209.4	9.7	1.000129
23800.0	419.5	-16.3	-34.5	19.0	568.9	624.4	213.4	10.1	1.000129
24000.0	416.2	-16.7	-34.8	19.0	565.1	624.0	217.2	10.5	1.000128
24200.0	412.8	-17.0	-35.1	19.0	561.3	623.6	220.6	10.9	1.000127
24400.0	409.5	-17.4	-35.4	19.0	557.7	623.1	222.1	10.8	1.000126
24600.0	406.2	-18.0	-35.9	19.0	554.4	622.4	223.4	10.6	1.000125
24800.0	402.9	-18.5	-36.3	19.0	551.1	621.7	224.7	10.4	1.000124
25000.0	399.6	-19.1	-36.8	19.0	547.7	621.1	226.1	10.3	1.000124
25200.0	396.3	-19.6	-37.2	19.0	544.3	620.4	227.1	10.1	1.000123
25400.0	393.0	-20.1	-37.7	19.0	540.9	619.8	227.5	9.9	1.000122
25600.0	389.8	-20.6	-38.1	19.0	537.6	619.2	227.8	9.6	1.000121
25800.0	386.6	-21.1	-38.5	19.0	534.2	618.6	228.1	9.4	1.000120
26000.0	383.4	-21.5	-38.9	19.0	530.9	617.9	228.5	9.1	1.000119
26200.0	380.2	-22.1	-39.4	19.0	527.6	617.3	228.2	8.7	1.000119
26400.0	377.1	-22.5	-39.8	19.0	524.3	616.7	227.7	8.3	1.000119
26600.0	374.0	-23.1	-40.2	19.0	521.0	616.0	227.1	7.8	1.000117
26800.0	370.9	-23.5	-40.7	19.0	517.8	615.4	226.5	7.4	1.000115
27000.0	367.9	-24.2	-41.1	19.0	514.6	614.8	226.2	7.0	1.000116
27200.0	364.9	-24.7	-41.5	19.0	511.4	614.2	227.9	7.1	1.000115
27400.0	361.8	-25.2	-42.0	19.0	508.2	613.5	229.5	7.2	1.000114
27600.0	358.8	-25.7	-42.4	19.0	505.1	612.9	231.1	7.2	1.000113
27800.0	355.8	-26.2	-42.8	19.1	501.9	612.3	232.7	7.3	1.000113

WSTM SITE COORDINATES
453491.53 FEET E
464023.05 FEET N

UPPER AIR DATA
2740030293
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 75
ASCENSION NO. 293

TABLE VI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
28000.0	352.8	-26.7	19.3	498.7	511.6	234.4	7.4	1.000112
28200.0	349.9	-27.2	19.5	495.5	511.0	236.8	7.8	1.000111
28400.0	346.9	-27.7	19.7	492.3	510.4	239.0	8.2	1.000110
28600.0	344.0	-28.2	19.8	489.1	509.8	240.9	8.5	1.000110
28800.0	341.1	-28.7	20.0	486.0	509.1	242.8	8.9	1.000109
29000.0	338.2	-29.2	20.2	482.9	508.5	243.7	9.3	1.000108
29200.0	335.3	-29.7	20.4	479.8	507.9	243.3	9.6	1.000108
29400.0	332.5	-30.2	20.5	476.7	507.2	243.0	10.3	1.000107
29600.0	329.7	-30.7	20.8	473.7	506.6	242.6	10.3	1.000106
29800.0	325.9	-31.2	21.0	470.7	506.0	242.3	10.6	1.000105
30000.0	324.1	-31.6	21.0	467.4	505.5	241.9	11.4	1.000105
30200.0	321.3	-32.1	21.0	464.2	504.9	241.4	12.8	1.000104
30400.0	318.5	-32.5	21.0	461.0	504.4	241.0	14.2	1.000103
30500.0	315.8	-32.9	21.0	457.8	503.9	240.6	15.6	1.000103
30800.0	313.1	-33.3	21.0	454.7	503.3	240.4	17.0	1.000102
31000.0	310.4	-33.7	21.0	451.5	502.8	240.3	18.4	1.000101
31200.0	307.7	-34.2	21.0	448.5	502.3	240.4	19.9	1.000100
31400.0	305.0	-34.6	21.0	445.4	501.7	240.5	21.3	1.000100
31600.0	302.4	-35.0	21.0	442.4	501.2	240.6	22.8	1.000099
31800.0	299.8	-35.4	20.9**	439.3	500.7	240.7	24.3	1.000098
32000.0	297.2	-35.7	19.5**	436.0	500.3	240.7	26.2	1.000097
32200.0	294.6	-36.0	18.1**	432.5	500.0	240.7	28.6	1.000097
32400.0	292.0	-36.2	16.7**	429.3	599.6	240.8	31.3	1.000095
32600.0	289.4	-36.5	15.3**	426.1	599.3	240.8	33.4	1.000095
32800.0	286.9	-36.8	13.9**	422.8	599.0	240.8	35.8	1.000094
33000.0	284.4	-37.1	12.5**	419.6	598.6	241.5	38.2	1.000094
33200.0	281.9	-37.3	11.1**	416.4	598.3	242.1	40.6	1.000093
33400.0	279.4	-37.6	9.7**	413.3	597.9	242.7	43.0	1.000092
33600.0	277.0	-37.9	8.3**	410.1	597.6	243.2	45.4	1.000091
33800.0	274.6	-38.2	6.9**	407.0	597.2	243.5	47.1	1.000091

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

UPPER AIR DATA
2740030293
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 76
ASCENSION NO. 293

WSTM SITE COORDINATES
450491.60 FEET E
464023.05 FEET N

TABLE VI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
34000.0	272.1	-38.4	-63.0	5.5**	403.9	596.9	243.7	243.7	47.7	1.000090
34200.0	269.8	-38.7	-65.4	4.1**	402.8	596.5	244.0	244.0	48.3	1.000033
34400.0	267.4	-39.0	-68.6	2.6**	397.8	596.2	244.2	244.2	48.9	1.000089
34600.0	265.1	-39.3	-73.9	1.2**	394.8	595.8	244.4	244.4	49.5	1.000083
34800.0	262.7	-39.6			391.8	595.4	244.5	244.5	49.5	1.000097
35000.0	260.4	-40.1			389.2	594.7	244.4	244.4	49.0	1.000087
35200.0	258.1	-40.6			385.6	594.1	244.4	244.4	48.5	1.000085
35400.0	255.8	-41.1			384.1	593.4	244.4	244.4	48.0	1.000086
35600.0	253.5	-41.7			381.5	592.7	244.4	244.4	47.4	1.000095
35800.0	251.3	-42.2			379.0	592.0	244.8	244.8	47.0	1.000084
36000.0	249.0	-42.7			376.5	591.3	245.8	245.8	46.8	1.000094
36200.0	246.7	-43.3			374.0	590.6	246.8	246.8	46.5	1.000083
36400.0	244.5	-43.9			371.5	589.9	247.8	247.8	46.3	1.000093
36600.0	242.3	-44.4			369.0	589.2	248.9	248.9	46.0	1.000082
36800.0	240.1	-45.0			366.5	588.5	250.2	250.2	45.6	1.000092
37000.0	237.9	-45.5			364.1	587.8	251.9	251.9	45.0	1.000081
37200.0	235.7	-46.1			361.5	587.1	253.6	253.6	44.4	1.000091
37400.0	233.6	-46.6			359.2	586.3	255.4	255.4	43.9	1.000080
37600.0	231.4	-47.2			356.8	585.6	257.2	257.2	43.4	1.000079
37800.0	229.3	-47.7			354.4	584.9	258.1	258.1	43.6	1.000079
38000.0	227.3	-48.3			352.1	584.2	258.5	258.5	44.3	1.000078
38200.0	225.2	-48.9			349.8	583.4	258.8	258.8	44.9	1.000078
38400.0	223.1	-49.4			347.4	582.7	259.1	259.1	45.6	1.000077
38600.0	221.1	-50.0			345.1	582.0	259.5	259.5	46.3	1.000077
38800.0	219.1	-49.5			341.3	582.6	258.9	258.9	48.3	1.000075
39000.0	217.1	-49.1			337.4	583.2	258.1	258.1	50.7	1.000075
39200.0	215.0	-49.0			334.2	583.3	257.4	257.4	53.2	1.000074
39400.0	213.1	-49.4			331.8	582.7	256.7	256.7	55.7	1.000074
39600.0	211.1	-49.9			329.3	582.1	256.1	256.1	58.1	1.000073
39800.0	209.1	-50.3			326.9	581.6	255.9	255.9	59.6	1.000073

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

UPPER AIR DATA
2740030000
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 75
ASCENSION NO. 293

WSTM SITE COORDINATES
453491.53 FEET E
464023.05 FEET N

TABLE VI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS		INDEX OF REFRACTION
					KNOTS	KNOTS				
40000.0	207.2	-50.8		324.5	581.0		255.8	61.3	1.000072	
40200.0	205.3	-51.2		322.1	580.4		255.6	62.4	1.000072	
40400.0	203.4	-51.5		319.8	579.8		255.5	63.8	1.000071	
40600.0	201.5	-52.1		317.4	579.3		255.3	65.2	1.000071	
40800.0	199.6	-52.4		315.0	578.8		255.3	66.5	1.000070	
41000.0	197.7	-52.6		312.4	578.5		255.3	67.7	1.000070	
41200.0	195.9	-52.8		309.7	578.3		255.3	69.3	1.000059	
41400.0	194.0	-53.0		307.1	578.0		255.3	70.3	1.000068	
41600.0	192.2	-53.3		304.5	577.6		255.3	71.5	1.000058	
41800.0	190.4	-53.8		302.4	576.9		255.3	72.8	1.000067	
42000.0	189.5	-54.4		300.2	576.3		255.3	74.2	1.000057	
42200.0	186.7	-54.9		298.0	575.6		255.2	75.7	1.000066	
42400.0	184.9	-55.4		295.8	574.9		255.2	77.1	1.000055	
42600.0	183.1	-55.9		293.7	574.2		255.1	78.5	1.000065	
42800.0	181.4	-56.4		291.5	573.5		255.1	79.9	1.000055	
43000.0	179.6	-56.9		289.4	572.8		255.2	79.9	1.000064	
43200.0	177.9	-57.4		287.3	572.2		255.3	79.9	1.000054	
43400.0	176.2	-58.0		285.2	571.5		255.4	79.9	1.000064	
43600.0	174.5	-58.5		283.2	570.8		255.6	79.9	1.000053	
43800.0	172.8	-59.0		281.1	570.1		255.7	79.9	1.000063	
44000.0	171.1	-59.5		279.1	569.4		256.1	79.2	1.000052	
44200.0	169.5	-60.0		277.1	568.7		256.7	78.4	1.000052	
44400.0	167.9	-60.5		275.1	568.0		257.2	77.6	1.000061	
44600.0	165.2	-61.1		273.1	567.4		257.8	76.8	1.000051	
44800.0	164.6	-61.6		271.1	566.7		258.4	76.0	1.000060	
45000.0	163.1	-62.1		269.1	566.0		258.9	75.5	1.000050	
45200.0	161.5	-62.6		267.2	565.3		259.4	75.1	1.000060	
45400.0	159.9	-63.1		265.3	564.6		259.9	74.8	1.000059	
45600.0	158.4	-63.6		263.4	563.9		260.4	74.5	1.000059	
45800.0	155.9	-64.2		261.5	563.2		261.0	74.1	1.000058	

STATION ALTITUDE 4051.00 FEET MSL
 30 SEP. 76
 ASCENSION NO. 293

UPPER AIR DATA
 2740030293
 JALLEN

WSTM SITE COORDINATES
 450491.60 FEET E
 464023.35 FEET N

TABLE VI (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
46000.0	155.4	-64.7		259.6	562.5	261.5	73.7	1.000058
46200.0	153.9	-65.0		257.5	562.1	261.9	73.3	1.000057
46400.0	152.3	-65.3		255.2	561.7	262.4	72.3	1.000057
46600.0	150.8	-65.6		253.0	561.3	262.9	71.7	1.000055
46800.0	149.3	-65.8		250.8	561.0	263.4	71.0	1.000056
47000.0	147.8	-65.9		248.5	560.8	264.0	70.2	1.000055
47200.0	146.3	-66.1		246.2	560.6	264.6	68.9	1.000055
47400.0	144.9	-66.3		244.0	560.3	265.2	67.6	1.000054
47600.0	143.4	-66.4		241.7	560.1	265.8	66.4	1.000054
47800.0	142.0	-66.6		239.5	559.9	266.5	65.1	1.000053
48000.0	140.6	-67.0		237.6	559.3	267.2	63.8	1.000053
48200.0	139.2	-67.5		235.7	558.7	267.9	62.2	1.000052
48400.0	137.7	-67.9		233.8	558.1	268.6	60.5	1.000052
48600.0	136.3	-68.4		231.9	557.5	269.4	58.9	1.000052
48800.0	135.0	-68.8		230.1	556.9	270.3	57.3	1.000051
49000.0	133.6	-69.3		228.3	556.3	271.2	55.6	1.000051
49200.0	132.3	-69.7		226.4	555.7	272.3	53.5	1.000050
49400.0	130.9	-70.1		224.6	555.1	273.6	51.4	1.000050
49600.0	129.6	-70.5		222.9	554.5	274.9	49.3	1.000050
49800.0	128.3	-71.0		221.1	553.9	276.4	47.2	1.000049
50000.0	127.0	-71.5		219.3	553.3	277.9	45.1	1.000049
50200.0	125.7	-71.9		217.6	552.7	279.2	42.9	1.000048
50400.0	124.4	-72.4		215.9	552.0	280.7	40.7	1.000048
50600.0	123.2	-71.8		213.1	552.8	282.3	38.6	1.000047
50800.0	121.9	-70.8		209.9	554.1	284.2	36.5	1.000047
51000.0	120.7	-70.2		207.1	555.0	285.7	34.4	1.000046
51200.0	119.4	-70.4		205.2	554.7	284.7	32.6	1.000045
51400.0	118.2	-70.7		203.4	554.3	283.7	30.7	1.000045
51600.0	117.0	-71.0		201.6	554.0	282.5	28.9	1.000045
51800.0	115.8	-71.2		199.8	553.6	281.2	27.1	1.000044

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 76
ASCENSION NO. 293

UPPER AIR DATA
2740030293
JALLEN
TABLE VI (CONT)

WSTM SITE COORDINATES
453491.53 FEET E
464023.05 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
52000.0	114.6	-71.5			198.0	553.2		279.7	25.3	1.000044
52200.0	113.5	-71.7			196.2	552.9		277.9	24.4	1.000044
52400.0	112.3	-72.0			194.5	552.5		275.8	24.3	1.000043
52500.0	111.2	-72.3			192.9	552.2		273.7	24.3	1.000043
52800.0	110.0	-72.0			190.5	552.5		271.6	24.3	1.000042
53000.0	108.9	-71.7			188.3	553.0		269.5	24.3	1.000042
53200.0	107.8	-71.4			186.1	553.3		267.5	24.4	1.000041
53400.0	106.7	-71.7			184.5	553.0		269.1	23.6	1.000041
53600.0	105.6	-71.9			182.8	552.6		271.2	22.8	1.000041
53800.0	104.5	-72.2			181.2	552.3		273.5	22.3	1.000040
54000.0	103.4	-72.2			179.3	552.3		276.0	21.2	1.000040
54200.0	102.4	-71.9			177.2	552.7		278.6	20.5	1.000039
54400.0	101.3	-71.6			175.2	553.0		281.0	19.7	1.000039
54600.0	100.3	-71.4			173.2	553.4		280.8	18.3	1.000039
54800.0	99.3	-71.5			171.5	553.2		280.5	16.3	1.000038
55000.0	98.3	-71.7			169.9	552.9		280.1	14.6	1.000038
55200.0	97.2	-72.0			168.4	552.6		279.7	12.9	1.000038
55400.0	96.3	-72.2			166.9	552.2		279.1	11.2	1.000037
55600.0	95.3	-72.1			165.0	552.5		277.1	9.8	1.000037
55800.0	94.3	-71.7			163.1	552.9		269.8	9.5	1.000036
56000.0	93.3	-71.4			161.2	553.3		262.3	9.4	1.000036
56200.0	92.4	-71.1			159.3	553.8		254.7	9.5	1.000035
56400.0	91.4	-70.8			157.4	554.2		247.3	9.7	1.000035
56600.0	90.5	-70.4			155.5	554.7		240.3	10.1	1.000035
56800.0	89.6	-70.1			153.7	555.1		234.7	10.5	1.000034
57000.0	88.7	-69.9			152.0	555.5		231.8	10.6	1.000034
57200.0	87.8	-69.8			150.3	555.6		228.9	10.8	1.000033
57400.0	86.9	-69.6			148.7	555.8		226.1	11.0	1.000033
57600.0	86.0	-69.5			147.2	555.9		223.5	11.2	1.000033
57800.0	85.1	-69.4			145.6	556.1		220.9	11.4	1.000032

UPPER AIR DATA
2740030293
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 75
ASCENSION NO. 293

WSTM SITE COORDINATES
453491.63 FEET E
464023.05 FEET N

TABLE VI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
58000.0	84.3	-68.5			143.6	557.1		219.9	11.6	1.000032
58200.0	83.4	-67.7			141.5	558.4		222.2	11.6	1.000032
58400.0	82.5	-66.9			139.5	559.7		224.4	11.5	1.000031
58600.0	81.8	-66.1			137.6	560.6		226.7	11.5	1.000031
58800.0	81.0	-65.0			136.2	560.7		228.9	11.6	1.000030
59000.0	80.2	-66.0			134.8	560.7		231.2	11.5	1.000030
59200.0	79.4	-66.0			133.5	560.8		233.8	11.2	1.000030
59400.0	78.6	-65.9			132.1	560.8		236.6	10.9	1.000029
59600.0	77.8	-65.9			130.8	560.9		239.6	10.6	1.000029
59800.0	77.0	-65.8			129.4	561.0		242.7	10.3	1.000029
60000.0	76.3	-65.8			128.1	561.0		246.0	10.1	1.000029
60200.0	75.5	-65.7			126.8	561.1		247.4	9.9	1.000028
60400.0	74.8	-65.6			125.5	561.3		248.5	9.7	1.000028
60600.0	74.0	-65.2			124.0	561.7		249.7	9.5	1.000029
60800.0	73.3	-64.9			122.6	562.2		250.9	9.3	1.000027
61000.0	72.6	-64.5			121.2	562.7		252.2	9.1	1.000027
61200.0	71.9	-64.2			119.8	563.1		256.2	8.8	1.000027
61400.0	71.1	-63.9			118.4	563.6		262.0	8.6	1.000025
61600.0	70.4	-63.5			117.1	564.1		268.0	8.4	1.000026
61800.0	69.7	-63.3			115.9	564.4		274.2	8.3	1.000025
62000.0	69.1	-63.1			114.6	564.6		280.5	8.3	1.000026
62200.0	68.4	-63.0			113.4	564.8		285.8	8.1	1.000025
62400.0	67.7	-62.9			112.2	565.0		289.8	7.4	1.000025
62600.0	67.1	-62.7			111.0	565.1		294.7	6.6	1.000025
62800.0	66.4	-62.6			109.9	565.3		300.8	6.0	1.000024
63000.0	65.8	-62.5			109.7	565.5		308.3	5.4	1.000024
63200.0	65.1	-62.3			107.6	565.7		317.4	4.9	1.000024
63400.0	64.5	-62.0			106.4	566.1		322.8	4.5	1.000024
63600.0	63.9	-61.6			105.2	566.6		325.7	4.0	1.000023
63800.0	63.2	-61.2			104.0	567.1		329.5	3.5	1.000023

UPPER AIR DATA
274003C293
JALLEN
TABLE VI (CONT)

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 76
ASCENSION NO. 233

WSTM SITE COORDINATES
450491.60 FEET E
464023.05 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
64000.0	62.6	-60.8		102.8	567.7	334.3	3.1	1.000023
64200.0	62.0	-60.4		101.6	568.2	340.7	2.7	1.000023
64400.0	61.4	-60.1		100.4	568.7	349.3	2.3	1.000022
64600.0	60.8	-59.7		99.3	569.2	347.4	1.9	1.000022
64800.0	60.2	-59.3		98.1	569.7	341.1	1.5	1.000022
65000.0	59.7	-58.9		97.0	570.2	330.7	1.2	1.000022
65200.0	59.1	-58.5		95.9	570.7	312.3	.9	1.000021
65400.0	58.5	-58.1		94.8	571.2	282.7	.7	1.000021
65600.0	58.0	-57.8		93.7	571.7	252.5	.9	1.000021
65800.0	57.4	-57.7		92.8	571.8	247.0	1.9	1.000021
66000.0	55.9	-57.5		91.9	572.0	245.3	2.9	1.000020
66200.0	56.3	-57.5		91.0	572.1	244.5	3.9	1.000020
66400.0	55.8	-57.4		90.1	572.2	244.0	4.9	1.000020
66600.0	55.2	-57.3		89.2	572.4	243.7	5.8	1.000020
66800.0	54.7	-57.2		88.3	572.5	243.9	6.7	1.000020
67000.0	54.2	-57.1		87.4	572.6	245.8	7.1	1.000019
67200.0	53.7	-57.0		86.5	572.7	247.6	7.4	1.000019
67400.0	53.2	-56.9		85.7	572.9	249.2	7.8	1.000019
67600.0	52.7	-56.8		84.9	573.0	250.7	8.1	1.000019
67800.0	52.2	-56.7		84.0	573.1	252.0	8.5	1.000019
68000.0	51.7	-56.6		83.1	573.2	253.0	8.7	1.000019
68200.0	51.2	-56.5		82.3	573.4	251.7	8.1	1.000018
68400.0	50.7	-56.4		81.5	573.5	250.1	7.4	1.000018
68600.0	50.2	-56.3		80.7	573.6	248.3	6.8	1.000018
68800.0	49.7	-56.2		79.9	573.8	246.1	6.1	1.000018
69000.0	49.3	-56.1		79.1	573.9	243.4	5.5	1.000018
69200.0	48.8	-56.0		78.3	574.1	240.0	4.9	1.000017
69400.0	48.4	-55.9		77.5	574.3	237.1	4.3	1.000017
69600.0	47.9	-55.7		76.7	574.4	234.2	3.7	1.000017
69800.0	47.5	-55.6		76.0	574.6	230.1	3.1	1.000017

STATION ALTITUDE 4051.00 FEET MSL
 30 SEP. 76
 ASCENSION NO. 293
 UPPER AIR DATA
 2740030293
 JALLEN
 TABLE VI (CONT)
 WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	WIND DATA		INDEX OF REFRACTION
					DIRECTION DEGREES(TN)	SPEED KNOTS	
70000.0	47.0	-55.5		75.2	224.3	2.6	1.000017
70200.0	46.5	-55.4		74.5	215.5	2.1	1.000017
70400.0	46.1	-55.2		73.7	201.6	1.6	1.000016
70600.0	45.7	-55.1		73.0	180.0	1.3	1.000015
70800.0	45.3	-55.0		72.3	146.0	1.1	1.000016
71000.0	44.9	-54.9		71.6	112.5	1.3	1.000015
71200.0	44.4	-54.7		70.9	93.3	1.9	1.000016
71400.0	44.0	-54.6		70.2	83.1	2.5	1.000015
71600.0	43.6	-54.5		69.5	77.2	3.2	1.000015
71800.0	43.2	-54.4		68.8	73.4	3.9	1.000015
72000.0	42.8	-54.2		68.1	72.4	4.3	1.000015
72200.0	42.4	-54.1		67.4	72.2	4.7	1.000015
72400.0	42.0	-54.0		66.8	72.0	5.1	1.000015
72600.0	41.6	-53.9		66.1	71.8	5.5	1.000015
72800.0	41.2	-53.7		65.4	71.7	5.9	1.000015
73000.0	40.8	-53.6		64.8	71.6	6.3	1.000014
73200.0	40.5	-53.5		64.2	71.2	6.6	1.000014
73400.0	40.1	-53.4		63.5	70.1	6.8	1.000014
73600.0	39.7	-53.2		62.9	68.9	6.9	1.000014
73800.0	39.3	-53.1		62.3	67.8	7.1	1.000014
74000.0	39.0	-53.0		61.7	66.8	7.3	1.000014
74200.0	38.6	-52.9		61.0	65.8	7.4	1.000014
74400.0	38.2	-52.7		60.4	64.9	7.6	1.000013
74600.0	37.9	-52.6		59.8	65.6	7.7	1.000013
74800.0	37.5	-52.5		59.2	66.8	7.7	1.000013
75000.0	37.2	-52.4		58.7	68.1	7.8	1.000013
75200.0	36.9	-52.2		58.1	69.3	7.9	1.000013
75400.0	36.5	-52.1		57.5	70.5	8.0	1.000013
75600.0	35.1	-52.0		56.9	71.7	8.1	1.000013
75800.0	35.8	-51.9		56.4	72.9	8.1	1.000013

UPPER AIR DATA
274003C293
JALLEN
TABLE VI (CONT)

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 75
ASCENSION NO. 293

WSTM SITE COORDINATES
450491.53 FEET E
464023.05 FEET N

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
76000.0	35.5	-51.7		55.8	579.7	78.0	7.9	1.000012
76200.0	35.1	-51.6		55.3	579.9	83.9	7.7	1.000012
76400.0	34.8	-51.5		54.7	580.0	90.0	7.6	1.000012
76600.0	34.5	-51.4		54.2	580.2	96.1	7.6	1.000012
76800.0	34.2	-51.2		53.6	580.4	102.3	7.7	1.000012
77000.0	33.8	-51.1		53.1	580.5	108.2	7.9	1.000012
77200.0	33.5	-51.0		52.6	580.7	113.8	8.1	1.000012
77400.0	33.2	-50.9		52.1	580.8	117.8	8.3	1.000012
77600.0	32.9	-50.7		51.5	581.0	121.2	8.5	1.000011
77800.0	32.6	-50.6		51.0	581.2	124.4	8.6	1.000011
78000.0	32.3	-50.5		50.5	581.3	127.5	8.9	1.000011
78200.0	32.0	-50.4		50.0	581.5	130.4	9.1	1.000011
78400.0	31.7	-50.2		49.5	581.7	133.2	9.4	1.000011
78600.0	31.4	-50.1		49.0	581.8	135.8	9.6	1.000011
78800.0	31.1	-50.0		48.6	582.0	138.0	9.9	1.000011
79000.0	30.8	-49.9		48.1	582.1	140.0	10.3	1.000011
79200.0	30.5	-49.7		47.6	582.3	141.9	10.2	1.000011
79400.0	30.2	-49.6		47.1	582.5	143.7	10.4	1.000010
79600.0	30.0	-49.5		46.7	582.6	145.4	10.6	1.000010
79800.0	29.7	-49.4		46.2	582.7	147.1	10.9	1.000010
80000.0	29.4	-49.3		45.8	582.8	148.7	11.1	1.000010
80200.0	29.1	-49.3		45.4	582.9	149.8	11.2	1.000010
80400.0	28.9	-49.2		44.9	583.0	149.6	11.1	1.000010
80600.0	28.6	-49.1		44.5	583.1	149.4	10.9	1.000010
80800.0	28.4	-49.1		44.1	583.2	149.2	10.8	1.000010
81000.0	28.1	-49.0		43.7	583.3	148.9	10.6	1.000010
81200.0	27.8	-48.9		43.3	583.4	148.7	10.5	1.000010
81400.0	27.6	-48.8		42.8	583.5	148.5	10.3	1.000010
81600.0	27.3	-48.8		42.4	583.6	148.2	10.2	1.000009
81800.0	27.1	-48.7		42.0	583.7	147.3	9.8	1.000009

UPPER AIR DATA
2740030293
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 75 1240 HRS MDT
ASCENSION NO. 293

WSTM SITE COORDINATES
453491.63 FEET E
464023.05 FEET N

TABLE VI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
82000.0	25.8	-48.5			41.6	583.8		146.2	9.3	1.000039
82200.0	26.6	-48.5			41.3	583.8		145.0	8.9	1.000009
82400.0	26.4	-48.5			40.9	583.9		143.5	8.5	1.000009
82600.0	26.1	-48.4			40.5	584.0		142.2	8.1	1.000009
82800.0	25.9	-48.3			40.1	584.1		140.6	7.7	1.000009
83000.0	25.6	-48.3			39.7	584.2		138.8	7.3	1.000009
83200.0	25.4	-48.2			39.3	584.3		139.3	7.1	1.000009
83400.0	25.2	-48.1			39.0	584.4		141.8	7.0	1.000009
83600.0	24.9	-48.0			38.6	584.5		144.4	6.9	1.000009
83800.0	24.7	-48.0			38.2	584.6		147.1	6.8	1.000009
84000.0	24.5	-47.9			37.9	584.7		149.8	6.7	1.000008
84200.0	24.3	-47.8			37.5	584.8		152.6	6.6	1.000008
84400.0	24.0	-47.8			37.2	584.9		155.4	6.6	1.000008
84600.0	23.8	-47.7			36.8	585.0		158.0	6.5	1.000008
84800.0	23.6	-47.6			36.5	585.1		159.6	6.4	1.000008
85000.0	23.4	-47.5			36.1	585.2		161.4	6.2	1.000008
85200.0	23.2	-47.5			35.8	585.3		163.2	6.1	1.000008
85400.0	23.0	-47.4			35.4	585.4		165.1	6.0	1.000008
85600.0	22.8	-47.3			35.1	585.4		167.1	5.8	1.000008
85800.0	22.6	-47.2			34.8	585.5		169.2	5.7	1.000008
86000.0	22.3	-47.2			34.4	585.6		171.3	5.6	1.000008
86200.0	22.1	-47.1			34.1	585.7		166.2	5.1	1.000008
86400.0	21.9	-47.0			33.8	585.8		158.5	4.6	1.000008
86600.0	21.7	-47.0			33.5	585.9		149.3	4.3	1.000007
86800.0	21.5	-46.9			33.2	586.0		138.6	4.0	1.000007
87000.0	21.3	-46.8			32.9	586.1		127.1	4.0	1.000007
87200.0	21.1	-46.7			32.5	586.2		115.6	4.0	1.000007
87400.0	21.0	-46.7			32.2	586.3		104.9	4.3	1.000007
87600.0	20.8	-46.6			31.9	586.4				1.000007
87800.0	20.6	-46.5			31.6	586.5				1.000007

STATION ALTITUDE 4051.00 FEET MSL		UPPER AIR DATA		WSM SITE COORDINATES	
30 SEP. 76		2740030293		450491.60 FEET E	
ASCENSION NO. 293		JALLEN		464023.05 FEET N	
1240 HRS MDT		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	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
88000.0	20.4	-46.5			31.3	586.6			1.000007
88200.0	20.2	-46.4			31.0	586.7			1.000007
88400.0	20.0	-46.3			30.7	586.8			1.000007
88600.0	19.8	-46.3			30.5	586.7			1.000007
88800.0	19.7	-46.4			30.2	586.7			1.000007

STATION ALTITUDE 4051.00 FEET MSL
 30 SEP. 76
 ASCENSION NO. 293
 1240 HRS MDT
 MANDATORY LEVELS
 2740030293
 JALLEN
 WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

TABLE VII

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
WLLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5065.	21.5	.1	24.	9999.0	9999.0XX
800.0	6771.	16.9	-4.3	23.	9999.0	9999.0XX
750.0	8560.	12.9	-8.5	22.	210.1	2.5
700.0	10445.	8.6	-13.1	20.	118.8	6.7
650.0	12442.	5.4	-15.9	20.	118.1	4.6
600.0	14582.	3.7	-18.7	17.	99.3	1.6
550.0	16881.	-.9	-21.9	18.	146.8	8.8
500.0	19351.	-6.5	-26.2	19.	132.9	2.6
450.0	22028.	-12.4	-31.3	19.	175.8	6.6
400.0	24942.	-19.0	-36.7	19.	225.9	10.3
350.0	28152.	-27.2	-43.4	19.	236.7	7.8
300.0	31732.	-35.4	-49.8	21.	240.7	24.1
250.0	35844.	-42.5			245.3	46.9
200.0	40671.	-52.4			255.3	66.2
175.0	43471.	-58.3			255.5	79.9
150.0	46594.	-65.7			263.2	71.3
125.0	50181.	-72.2			279.9	41.8
100.0	54505.	-71.3			280.7	17.6
80.0	58864.	-66.0			231.6	11.5
70.0	61534.	-63.3			271.6	8.3
60.0	64666.	-59.1			338.2	1.4
50.0	68447.	-56.3			247.6	6.5
40.0	73129.	-53.3			70.1	6.8
30.0	79259.	-49.5			145.1	10.6
25.0	83190.	-48.1			143.4	6.9
20.0	88036.	-46.3				

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

STATION ALTITUDE 4940.00 FEET MSL
30 SEP. 76
ASCENSION NO. 225

SIGNIFICANT LEVEL DATA
2740040225
STALLION

WSTM SITE COORDINATES
403783.00 FEET E
701403.00 FEET N

TABLE VIII

PRESSURE GEOMETRIC		TEMPERATURE		REL. HUM. PERCENT
MIL. IBARS	ALTITUDE MSL FEET	AIR DEGREES	DEWPOINT CENTIGRADE	
852.6	4940.0	24.5	2.0	23.0
850.0	5027.6	23.5	2.4	25.0
801.8	6683.0	18.0	1.5	33.0
739.6	8922.0	10.5	-1.5	43.0
700.0	10418.1	6.9	-4.5	44.0
680.6	11177.3	7.1	-9.3	30.0
662.2	11915.2	5.3	-10.4	31.0
615.8	13863.4	5.0	-16.7	19.0
500.0	19322.8	-7.2	-25.2	22.0
490.0	19840.6	-7.2	-25.7	21.0
446.0	22221.3	-13.9	-30.5	23.0
400.0	24909.3	-19.9	-37.0	20.0
325.0	29848.0	-32.8	-46.8	23.0
300.0	31689.5	-36.5	-49.5	24.0
263.2	34647.0	-40.9		
250.0	35791.9	-44.0		
228.0	37801.7	-49.9		
208.6	39708.9	-51.8		
200.0	40604.5	-53.6		
187.2	41998.8	-55.8		
150.0	46530.8	-66.6		
131.4	49137.9	-71.8		
119.2	51024.8	-73.5		
100.0	54429.1	-71.5		
94.6	55508.1	-72.5		
84.0	57847.5	-66.4		
70.0	61491.2	-66.4		
61.0	64284.4	-60.1		
50.0	68407.0	-57.5		
30.0	79189.5	-52.5		

STATION ALTITUDE 4940.00 FEET MSL
 30 SEP. 76
 ASCENSION NO. 225

SIGNIFICANT LEVEL DATA
 2740040225
 STALLION

TABLE VIII (CONT)

PRESSURE GEOMETRIC		TEMPERATURE		REL. HUM. PERCENT
MIL. IBARS	ALTITUDE MSL FEET	AIR DEGREES	DEWPOINT CENTIGRADE	
20.0	87937.5	-48.3		
17.5	90874.0	-44.3		
10.0	103406.2	-40.1		
8.6	106839.1	-37.3		

WSTM SITE COORDINATES
 403783.00 FEET E
 701403.00 FEET N

STATION ALTITUDE 4940.00 FEET MSL
 30 SEP. 75
 ASCENSION NO. 225

UPPER AIR DATA
 27400000225
 STALLION

WSTM SITE COORDINATES
 403783.00 FEET E
 701403.00 FEET N

TABLE IX

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
4940.0	852.6	24.5	2.0	23.0	994.7	673.2	150.0	150.0	1.9	1.000252
5000.0	850.8	23.8	2.3	24.4	994.9	672.4	154.1	154.1	2.0	1.000253
5500.0	836.0	21.9	2.2	27.3	983.7	670.3	183.4	183.4	2.4	1.000250
6000.0	821.3	20.3	2.0	29.7	972.0	668.4	201.0	201.0	3.2	1.000248
6500.0	807.0	18.6	1.7	32.1	960.5	666.5	210.9	210.9	4.2	1.000245
7000.0	792.7	16.9	1.2	34.4	948.9	664.6	216.9	216.9	5.2	1.000241
7500.0	778.5	15.3	.5	36.6	937.4	662.6	220.6	220.6	6.2	1.000238
8000.0	764.6	13.6	-.1	38.9	926.2	660.7	217.8	217.8	5.1	1.000234
8500.0	750.9	11.9	-.9	41.1	915.0	658.7	213.7	213.7	4.1	1.000231
9000.0	737.5	10.3	-1.7	43.1	903.8	656.8	181.8	181.8	3.5	1.000227
9500.0	724.0	9.1	-2.7	43.4	891.3	655.4	148.6	148.6	4.5	1.000222
10000.0	710.8	7.9	-3.7	43.7	878.9	653.9	131.9	131.9	5.6	1.000218
10500.0	697.9	6.9	-4.9	42.5	866.1	652.7	121.4	121.4	6.9	1.000213
11000.0	685.1	7.1	-8.0	33.3	850.2	652.7	108.7	108.7	5.4	1.000206
11500.0	672.5	6.3	-9.8	30.4	836.9	651.8	87.6	87.6	4.2	1.000201
12000.0	660.1	5.3	-10.7	30.5	824.6	650.6	73.9	73.9	3.3	1.000197
12500.0	647.9	5.2	-12.0	27.4	809.7	650.4	58.7	58.7	2.7	1.000192
13000.0	635.9	5.1	-13.6	24.3	795.1	650.3	59.9	59.9	2.6	1.000188
13500.0	624.2	5.1	-15.3	23.2	780.7	650.2	52.5	52.5	2.2	1.000183
14000.0	612.6	4.7	-16.9	19.1	767.3	649.7	25.7	25.7	1.8	1.000179
14500.0	601.0	3.6	-17.6	19.3	755.9	648.4	96.2	96.2	.5	1.000176
15000.0	589.7	2.5	-18.4	19.6	744.6	647.1	165.8	165.8	2.6	1.000173
15500.0	578.5	1.3	-19.2	19.9	733.6	645.7	171.0	171.0	5.8	1.000170
16000.0	567.6	.2	-19.9	20.2	722.7	644.4	172.1	172.1	8.2	1.000157
16500.0	556.9	-.9	-20.7	20.4	712.0	643.1	172.5	172.5	8.0	1.000165
17000.0	546.3	-2.0	-21.5	20.7	701.4	641.7	168.3	168.3	7.6	1.000152
17500.0	536.0	-3.1	-22.3	21.0	691.0	640.4	157.5	157.5	7.2	1.000159
18000.0	525.9	-4.2	-23.1	21.3	680.8	639.1	148.6	148.6	6.4	1.000157
18500.0	515.9	-5.4	-23.9	21.5	670.8	637.7	139.1	139.1	5.3	1.000154
19000.0	506.2	-6.5	-24.7	21.8	660.9	636.4	139.7	139.7	4.4	1.000152

STATION ALTITUDE 4940.00 FEET MSL
 30 SEP. 76 1340 HRS MDT
 ASCENSION NO. 225

UPPER AIR DATA
 2740040225
 STALLION

WESTH SITE COORDINATES
 403783.00 FEET E
 731403.00 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	496.6	-7.2	21.7	650.1	635.5	147.8	3.5	1.000149
20000.0	486.9	-7.6	21.1	638.5	635.0	179.3	4.1	1.000145
20500.0	477.4	-9.1	21.6	629.4	623.3	198.5	5.6	1.000144
21000.0	468.1	-10.5	22.0	620.4	631.6	207.8	6.6	1.000142
21500.0	458.9	-11.9	22.4	611.6	629.9	214.1	7.8	1.000139
22000.0	449.9	-13.3	22.8	602.9	628.2	217.8	9.2	1.000137
22500.0	441.0	-14.5	22.7	593.8	626.6	222.1	11.3	1.000135
23000.0	432.2	-15.6	22.1	584.4	625.3	226.3	13.2	1.000132
23500.0	423.5	-16.8	21.6	575.2	623.9	226.5	14.2	1.000130
24000.0	415.0	-17.9	21.0	566.2	622.5	225.3	14.5	1.000128
24500.0	406.7	-19.0	20.5	557.3	621.2	225.8	13.1	1.000125
25000.0	398.5	-20.1	20.1	548.5	619.8	226.8	11.4	1.000124
25500.0	390.2	-21.4	20.4	539.9	618.1	230.4	11.8	1.000122
26000.0	382.1	-22.7	20.7	531.4	616.5	233.6	12.2	1.000120
26500.0	374.1	-24.1	21.0	523.1	614.9	235.8	12.3	1.000118
27000.0	366.3	-25.4	21.3	514.9	613.3	238.4	12.1	1.000116
27500.0	358.7	-26.7	21.6	506.9	611.7	244.1	10.6	1.000114
28000.0	351.3	-28.0	21.9	499.0	610.0	249.3	9.6	1.000112
28500.0	344.0	-29.3	22.2	491.3	608.4	249.6	9.3	1.000110
29000.0	336.8	-30.6	22.5	483.6	606.8	251.1	9.7	1.000108
29500.0	329.8	-31.9	22.8	476.1	605.1	253.9	11.5	1.000107
30000.0	322.9	-33.1	23.1	468.5	603.6	255.9	13.6	1.000105
30500.0	315.9	-34.1	23.4	460.4	602.4	257.2	16.2	1.000103
31000.0	309.1	-35.1	23.6	452.4	601.1	257.0	18.9	1.000101
31500.0	302.5	-36.1	23.9	444.5	599.8	255.1	21.8	1.000099
32000.0	295.9	-37.0	21.5**	436.4	598.7	253.6	25.7	1.000098
32500.0	289.4	-37.7	17.4**	428.2	597.8	252.3	31.3	1.000095
33000.0	283.1	-38.5	13.4**	420.2	596.8	251.1	36.5	1.000094
33500.0	276.9	-39.2	9.3**	412.3	595.9	249.5	40.9	1.000092
34000.0	270.8	-39.9	5.2**	404.6	594.9	248.4	43.9	1.000090

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

UPPER AIR DATA
2740040225
STALLION

STATION ALTITUDE 4940.00 FEET MSL
30 SEP. 75
ASCENSION NO. 225

WSTM SITE COORDINATES
433783.00 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		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
34500.0	254.9	-40.7	1.2**	797.0	594.0	247.8	43.9	1.000083
35000.0	259.1	-41.9		390.2	592.5	247.5	43.6	1.000087
35500.0	253.3	-43.2		383.8	590.7	248.0	42.9	1.000035
36000.0	247.6	-44.6		377.5	588.9	249.1	42.4	1.000084
36500.0	242.0	-45.1		371.3	587.1	250.9	42.6	1.000033
37000.0	236.5	-47.5		365.2	585.2	252.6	43.2	1.000081
37500.0	231.2	-49.0		359.3	583.2	253.8	44.7	1.000080
38000.0	225.9	-50.1		352.8	581.8	254.7	46.6	1.000079
38500.0	220.7	-50.5		345.5	581.2	254.2	50.4	1.000077
39000.0	215.6	-51.1		338.3	580.5	253.8	54.3	1.000075
39500.0	210.6	-51.6		331.2	579.9	253.3	58.8	1.000074
40000.0	205.8	-52.4		324.7	578.8	252.9	63.3	1.000072
40500.0	201.0	-53.4		318.6	577.5	253.6	67.1	1.000071
41000.0	196.3	-54.2		312.3	576.4	254.3	70.9	1.000070
41500.0	191.7	-55.0		306.1	575.4	255.1	73.2	1.000068
42000.0	187.2	-55.8		300.0	574.3	256.0	74.8	1.000057
42500.0	182.7	-57.0		294.4	572.8	256.1	76.0	1.000066
43000.0	178.3	-58.2		288.9	571.2	255.8	76.7	1.000054
43500.0	174.0	-59.4		283.5	569.6	255.7	77.8	1.000063
44000.0	169.8	-60.6		278.2	568.0	255.9	79.1	1.000052
44500.0	165.7	-61.8		273.0	566.4	256.3	80.0	1.000061
45000.0	161.7	-63.0		267.9	564.8	257.7	79.5	1.000050
45500.0	157.8	-64.1		262.9	563.2	259.1	79.0	1.000059
46000.0	153.9	-65.3		258.1	561.6	260.9	76.2	1.000057
46500.0	150.2	-66.5		253.3	560.0	262.8	73.1	1.000056
47000.0	146.5	-67.5		248.2	558.6	264.8	69.7	1.000055
47500.0	142.8	-68.5		243.1	557.3	266.4	65.5	1.000054
48000.0	139.2	-69.5		238.2	555.9	268.3	61.4	1.000053
48500.0	135.7	-70.5		233.3	554.5	270.8	57.1	1.000052
49000.0	132.3	-71.5		228.6	553.2	274.0	52.7	1.000051

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

STATION ALTITUDE 4940.00 FEET MSL
 30 SEP. 75
 ASCENSION NO. 225
 UPPER AIR DATA
 2740040225
 STALLION
 TABLE IX (CONT)
 WSTM SITE COORDINATES
 403783.00 FEET E
 701403.00 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
49500.0	129.0	-72.1		223.5	552.4	277.5	48.5	1.000050
50000.0	125.7	-72.6		218.3	551.7	279.4	43.5	1.000049
50500.0	122.5	-73.0		213.2	551.1	281.9	38.6	1.000047
51000.0	119.4	-73.5		208.2	550.5	282.4	34.3	1.000045
51500.0	116.3	-73.2		202.7	550.9	279.1	30.9	1.000045
52000.0	113.4	-72.9		197.2	551.3	274.9	27.6	1.000044
52500.0	110.5	-72.6		191.9	551.7	273.8	24.8	1.000043
53000.0	107.7	-72.3		186.8	552.1	273.9	22.3	1.000042
53500.0	104.9	-72.0		181.7	552.5	274.1	19.2	1.000040
54000.0	102.2	-71.8		176.8	552.9	269.9	17.8	1.000039
54500.0	99.6	-71.6		172.2	553.1	265.0	16.5	1.000038
55000.0	97.1	-72.0		168.2	552.5	259.2	15.8	1.000037
55500.0	94.6	-72.5		164.3	551.9	252.7	17.0	1.000037
56000.0	92.3	-71.2		159.2	553.6	247.1	18.4	1.000035
56500.0	90.0	-69.9		154.2	555.4	242.3	19.9	1.000034
57000.0	87.7	-68.6		149.4	557.2	242.3	19.4	1.000033
57500.0	85.5	-67.3		144.7	558.9	243.5	18.3	1.000032
58000.0	83.4	-66.4		140.5	560.2	244.9	17.2	1.000031
58500.0	81.3	-66.4		137.0	560.2	246.0	16.1	1.000031
59000.0	79.3	-66.4		133.6	560.2	246.6	14.8	1.000030
59500.0	77.3	-66.4		130.3	560.2	247.4	13.6	1.000029
60000.0	75.4	-66.4		127.1	560.2	249.0	12.6	1.000028
60500.0	73.6	-66.4		123.9	560.2	253.8	12.8	1.000028
61000.0	71.7	-66.4		120.9	560.2	258.3	13.0	1.000027
61500.0	70.0	-66.4		117.9	560.2	263.1	13.2	1.000026
62000.0	68.3	-65.3		114.4	561.7	270.5	12.3	1.000025
62500.0	66.6	-64.1		111.0	563.2	278.9	11.7	1.000025
63000.0	65.0	-63.0		107.7	564.8	287.8	11.3	1.000024
63500.0	63.4	-61.9		104.5	566.3	291.4	9.8	1.000023
64000.0	61.9	-60.7		101.5	567.8	295.2	8.4	1.000023

UPPER AIR DATA
2740040225
STALLION
TABLE IX (CONT)

STATION ALTITUDE 4940.00 FEET MSL
30 SEP. 75 1340 HRS MDT
ASCENSION NO. 225

WSTM SITE COORDINATES
433783.00 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
64500.0	50.4	-60.0		98.6	568.8	301.9	7.1	1.000022
65000.0	58.9	-59.6		96.2	569.2	293.4	6.6	1.000021
65500.0	57.5	-59.3		93.7	569.7	283.9	6.3	1.000021
66000.0	56.2	-59.0		91.4	570.1	273.8	6.2	1.000020
66500.0	54.8	-58.7		89.0	570.5	265.2	5.1	1.000020
67000.0	53.5	-58.4		86.8	570.9	252.4	4.2	1.000019
67500.0	52.2	-58.1		84.6	571.3	235.1	3.6	1.000019
68000.0	51.0	-57.8		82.5	571.8	223.3	3.1	1.000018
68500.0	49.8	-57.5		80.4	572.2	208.2	2.8	1.000018
69000.0	48.6	-57.2		78.4	572.5	196.6	2.6	1.000017
69500.0	47.5	-57.0		76.5	572.8	188.8	2.4	1.000017
70000.0	46.4	-56.8		74.6	573.1	179.8	2.3	1.000017
70500.0	45.3	-56.5		72.8	573.4	187.1	1.8	1.000015
71000.0	44.2	-56.3		71.0	573.7	201.1	1.3	1.000016
71500.0	43.2	-56.1		69.3	574.0	218.2	1.2	1.000015
72000.0	42.2	-55.8		67.6	574.3	224.6	1.4	1.000015
72500.0	41.2	-55.5		66.0	574.6	229.3	1.6	1.000015
73000.0	40.2	-55.4		64.3	574.9	183.7	1.2	1.000014
73500.0	39.3	-55.1		62.8	575.2	129.0	2.2	1.000014
74000.0	38.4	-54.9		61.2	575.5	114.1	3.8	1.000014
74500.0	37.5	-54.7		59.7	575.8	105.6	4.7	1.000013
75000.0	36.6	-54.4		58.3	576.1	101.2	5.5	1.000013
75500.0	35.7	-54.2		56.9	576.4	97.2	6.4	1.000013
76000.0	34.9	-54.0		55.5	576.7	102.9	6.5	1.000012
76500.0	34.1	-53.7		54.1	577.1	108.5	6.6	1.000012
77000.0	33.3	-53.5		52.8	577.4	114.8	6.9	1.000012
77500.0	32.5	-53.3		51.5	577.7	124.2	8.3	1.000011
78000.0	31.7	-53.1		50.2	578.0	130.8	9.9	1.000011
78500.0	31.0	-52.8		49.0	578.3	133.8	11.0	1.000011
79000.0	30.3	-52.5		47.8	578.6	132.7	11.1	1.000011

UPPER AIR DATA
2740040225
STATION ALTITUDE 4940.00 FEET MSL
30 SEP. 76 1340 HRS MDT
ASCENSION NO. 225

WSTM SITE COORDINATES
403783.00 FEET E
701403.00 FEET N

TABLE IX (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
79500.0	29.6	-52.4		46.7	578.9	131.6	11.2	1.000010
80000.0	28.9	-52.1		45.5	579.2	129.8	10.8	1.000010
80500.0	28.2	-51.9		44.4	579.5	126.6	9.9	1.000010
81000.0	27.6	-51.6		43.4	579.8	122.6	9.1	1.000010
81500.0	27.0	-51.4		42.3	580.1	121.8	8.3	1.000009
82000.0	26.3	-51.2		41.3	580.5	127.4	7.6	1.000009
82500.0	25.7	-50.9		40.3	580.8	134.0	7.0	1.000009
83000.0	25.1	-50.7		39.4	581.1	139.4	6.6	1.000009
83500.0	24.6	-50.4		38.4	581.4	141.3	6.3	1.000009
84000.0	24.0	-50.2		37.5	581.7	143.4	6.0	1.000008
84500.0	23.5	-50.0		36.6	582.0	145.8	5.7	1.000008
85000.0	22.9	-49.7		35.7	582.3	148.7	5.2	1.000008
85500.0	22.4	-49.5		34.9	582.7	152.1	4.8	1.000008
86000.0	21.9	-49.2		34.0	583.0	157.3	4.5	1.000008
86500.0	21.4	-49.0		33.2	583.3	165.6	4.3	1.000007
87000.0	20.9	-48.8		32.4	583.6	174.4	4.3	1.000007
87500.0	20.4	-48.5		31.7	583.9	180.7	4.2	1.000007
88000.0	19.9	-48.2		30.9	584.3	181.5	3.9	1.000007
88500.0	19.5	-47.5		30.1	585.2	182.4	3.7	1.000007
89000.0	19.1	-46.9		29.3	586.1	184.7	3.6	1.000007
89500.0	18.6	-46.2		28.6	586.9	189.5	4.1	1.000006
90000.0	18.2	-45.5		27.9	587.8	193.2	4.7	1.000006
90500.0	17.8	-44.8		27.2	588.7	194.8	5.3	1.000006
91000.0	17.4	-44.3		26.5	589.4	188.4	5.6	1.000006
91500.0	17.0	-44.1		25.9	589.6	182.7	6.0	1.000006
92000.0	16.6	-43.9		25.3	589.8	177.7	6.4	1.000006
92500.0	16.3	-43.8		24.7	590.0	168.0	5.7	1.000005
93000.0	15.9	-43.6		24.2	590.3	144.8	4.3	1.000005
93500.0	15.6	-43.4		23.6	590.5	111.6	4.1	1.000005
94000.0	15.2	-43.3		23.1	590.7	84.1	5.1	1.000005

STATION ALTITUDE 4940.00 FEET MSL
 30 SEP. 75
 ASCENSION NO. 225
 UPPER AIR DATA
 2740040C225
 STATION
 WSTM SITE COORDINATES
 403783.00 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		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
94500.0	14.9	-43.1			22.5	590.9		79.4	5.3	1.0000035
95000.0	14.6	-42.9			22.0	591.1		76.4	4.6	1.0000005
95500.0	14.2	-42.7			21.5	591.3		73.0	4.2	1.0000005
96000.0	13.9	-42.6			21.0	591.6		76.4	3.7	1.0000035
96500.0	13.6	-42.4			20.6	591.8		109.3	3.4	1.0000005
97000.0	13.3	-42.2			20.1	592.0		138.0	4.2	1.0000034
97500.0	13.0	-42.1			19.6	592.2		154.8	5.7	1.0000004
98000.0	12.7	-41.9			19.2	592.4		157.1	6.9	1.0000034
98500.0	12.4	-41.7			18.7	592.6		154.4	7.8	1.0000004
99000.0	12.2	-41.5			18.3	592.8		152.3	8.7	1.0000034
99500.0	11.9	-41.4			17.9	593.1		150.6	9.6	1.0000004
100000.0	11.6	-41.2			17.5	593.3		149.2	9.7	1.0000034
100500.0	11.4	-41.1			17.1	593.5		148.0	9.7	1.0000004
101000.0	11.1	-40.9			16.7	593.7		146.7	9.7	1.0000034
101500.0	10.9	-40.7			16.3	593.9		144.6	10.1	1.0000004
102000.0	10.6	-40.6			15.9	594.1		141.5	11.2	1.0000034
102500.0	10.4	-40.4			15.6	594.3		138.9	12.2	1.0000003
103000.0	10.2	-40.2			15.2	594.6		136.8	13.3	1.0000033
103500.0	10.0	-40.0			14.9	594.8		140.0	13.1	1.0000003
104000.0	9.7	-39.6			14.5	595.3		146.0	12.5	1.0000033
104500.0	9.5	-39.2			14.2	595.9		152.5	11.9	1.0000003
105000.0	9.3	-38.8			13.9	596.4				1.0000033
105500.0	9.1	-38.4			13.5	596.9				1.0000003
106000.0	8.9	-38.0			13.2	597.4				1.0000033
106500.0	8.7	-37.6			12.9	597.9				1.0000003

STATION ALTITUDE 4940.00 FEET MSL
 30 SEP. 75
 ASCENSION NO. 225

MANDATORY LEVELS
 2740040225
 STALLION
 TABLE X

WSTM SITE COORDINATES
 403783.00 FEET E
 701403.00 FEET N

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5026.	23.5	2.4	25.	156.0	2.3
800.0	6743.	17.8	1.4	33.	214.1	4.7
750.0	8535.	11.8	- .9	41.	213.2	4.3
700.0	10412.	6.9	-4.5	44.	122.8	6.6
650.0	12405.	5.2	-11.8	28.	58.5	2.8
600.0	14546.	3.5	-17.7	19.	122.8	.6
550.0	16839.	-1.6	-21.2	21.	171.2	7.7
500.0	19303.	-7.2	-25.2	22.	144.5	3.8
450.0	21972.	-13.3	-30.0	23.	217.7	9.2
400.0	24876.	-19.9	-37.0	20.	226.6	11.8
350.0	28073.	-28.2	-43.2	22.	249.3	9.5
300.0	31636.	-36.5	-49.6	24.	254.6	22.9
250.0	35726.	-44.0			248.4	42.4
200.0	40520.	-53.6			253.8	67.9
175.0	43305.	-59.1			255.6	77.5
150.0	46421.	-66.6			262.9	72.9
125.0	49979.	-72.7			279.9	42.5
100.0	54279.	-71.5			265.8	16.7
80.0	58648.	-66.4			246.4	15.3
70.0	61301.	-66.4			262.8	13.2
60.0	64416.	-59.9			300.0	7.3
50.0	68173.	-57.5			211.5	2.8
40.0	72821.	-55.3			171.1	1.2
30.0	78882.	-52.5			132.3	11.1
25.0	82765.	-50.6			139.7	6.5
20.0	87562.	-48.3			181.4	4.0
15.0	93871.	-43.1			80.5	5.1
10.0	102893.	-40.1			138.9	13.3

STATION ALTITUDE 3987.00 FEET
30 SEP. 76
ASCENSION NO. 642

SIGNIFICANT LEVEL DATA
2743.20562
WHITE SANDS

STEP SITE COORDINATES
488520.00 FEET E
105045.00 FEET N

TABLE XI

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
862.5	3969.0	27.3	.1	17.1
875.0	4235.3	24.8	2.9	24.0
850.0	5035.2	22.4	2.0	26.0
760.0	10463.3	8.1	-9.7	27.0
640.0	12739.0	4.2	-11.6	17.1
604.8	14385.1	4.1	-18.7	17.0
537.4	17505.0	-2.2	-23.3	18.0
500.0	19370.0	-7.4	-26.4	20.0
474.4	20711.2	-9.2	-28.5	19.0
438.4	22698.6	-14.4	-32.9	19.0
405.0	24964.9	-18.8	-36.6	19.0
338.2	28992.3	-29.5	-45.2	20.0
308.2	31153.5	-34.1	-49.1	20.0
300.0	31774.3	-34.7		
250.0	35894.1	-42.9		
229.0	37823.3	-47.5		
200.0	40741.0	-52.1		
150.0	46665.5	-47.4		
123.0	50545.9	-73.9		
111.4	52452.4	-73.9		
102.6	54030.9	-75.3		
100.0	54523.0	-74.2		
70.0	61540.2	-64.9		
59.0	65027.4	-59.5		
50.0	68451.1	-59.1		
30.0	79194.1	-52.5		
20.0	87975.5	-46.6		
10.0	103500.6	-37.6		

STATION ALTITUDE 3989.00 FEET ASI
30 SEP. 78
ASCENSION NO. 662

UPPER AIR DATA
2740020662
WHITE SANDS

ASTM SITE COORDINATES
488580.00 FEET E
185045.00 FEET N

TABLE XII

GEOMETRIC ALTITUDE ASL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
3989.0	682.5	27.3	.1	17.0	1020.5	676.2	70.0	4.1	1.000253
4000.0	882.2	27.2	.3	17.3	1020.5	676.1	70.3	4.1	1.000254
4500.0	866.9	24.0	2.6	24.6	1013.0	672.7	82.1	4.7	1.000257
5000.0	851.9	22.6	2.0	25.8	1000.4	671.0	91.1	5.4	1.000254
5500.0	836.1	21.2	1.0	26.1	987.3	669.4	97.8	6.2	1.000255
6000.0	821.9	19.9	-0.0	26.2	974.2	667.9	97.5	6.4	1.000244
6500.0	807.2	18.6	-1.1	26.3	961.4	666.3	83.4	5.4	1.000239
7000.0	792.9	17.3	-2.2	26.4	948.7	664.7	83.7	5.2	1.000235
7500.0	778.7	15.9	-3.3	26.5	936.2	663.2	89.8	5.1	1.000230
8000.0	764.8	14.6	-4.4	26.5	923.9	661.6	102.8	5.0	1.000226
8500.0	751.2	13.3	-5.5	26.6	911.7	660.0	114.1	5.2	1.000222
9000.0	737.8	12.0	-6.5	26.7	899.7	658.5	112.3	4.8	1.000218
9500.0	724.7	10.7	-7.6	26.8	887.9	656.9	109.6	4.4	1.000214
10000.0	711.8	9.3	-8.7	26.9	876.3	655.3	103.3	4.2	1.000210
10500.0	699.0	8.0	-9.9	26.8	864.7	653.8	102.3	4.4	1.000206
11000.0	686.2	7.2	-11.6	24.7	851.5	652.8	119.4	6.2	1.000202
11500.0	673.5	6.4	-13.4	22.6	838.4	651.7	129.8	8.2	1.000197
12000.0	661.1	5.5	-15.4	20.4	825.6	650.7	139.7	10.5	1.000193
12500.0	649.0	4.7	-17.4	18.3	812.9	649.7	144.6	12.3	1.000189
13000.0	637.0	4.2	-18.6	17.0	799.5	649.1	143.1	11.7	1.000185
13500.0	625.2	4.2	-18.7	17.0	784.7	649.0	140.7	11.0	1.000182
14000.0	613.6	4.1	-18.7	17.0	770.2	649.0	135.4	9.4	1.000178
14500.0	602.2	3.9	-18.9	17.0	756.6	648.7	116.6	8.2	1.000175
15000.0	590.9	2.9	-19.6	17.2	745.2	647.5	114.5	6.9	1.000172
15500.0	579.8	1.6	-20.3	17.4	733.9	646.3	113.7	5.6	1.000170
16000.0	568.9	.8	-21.1	17.5	722.8	645.1	129.8	5.1	1.000167
16500.0	558.2	-0.2	-21.8	17.7	711.9	643.9	143.5	5.3	1.000164
17000.0	547.8	-1.2	-22.5	17.8	701.2	642.7	145.0	6.6	1.000161
17500.0	537.5	-2.2	-23.2	18.0	690.6	641.5	143.5	7.7	1.000159
18000.0	527.2	-3.6	-24.1	18.5	680.9	639.8	137.9	8.7	1.000156

UPPER AIR DATA
274000Z662
WHITE SANDS
WSTM SITE COORDINATES
488580.00 FEET E
185045.00 FEET N

STATION ALTITUDE 2989.00 FEET SI
30 SEP. 76
ASCENSION NO. 642
1350 HRS MDT

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 CENTIGRADE	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
18500.0	517.1	-5.0	-24.9	19.1	671.3	638.2	129.4	7.3	1.000154
19000.0	507.2	-5.4	-25.3	19.6	661.9	636.5	116.3	7.7	1.000151
19500.0	497.6	-7.6	-26.6	19.9	652.2	635.0	106.4	9.6	1.000149
20000.0	487.8	-8.2	-27.4	19.5	641.2	634.2	97.6	8.9	1.000146
20500.0	478.5	-8.9	-28.2	19.2	630.4	633.4	87.4	8.1	1.000144
21000.0	469.0	-10.0	-29.1	19.0	620.5	632.2	106.8	7.1	1.000141
21500.0	459.8	-11.3	-30.2	19.0	611.3	630.6	121.7	6.7	1.000139
22000.0	450.7	-12.6	-31.3	19.0	602.4	629.0	136.9	7.0	1.000137
22500.0	441.9	-13.9	-32.4	19.0	593.5	627.4	153.4	7.6	1.000134
23000.0	433.1	-15.0	-33.4	19.0	584.2	626.1	172.3	6.8	1.000132
23500.0	424.4	-16.0	-34.2	19.0	574.7	624.9	184.5	10.1	1.000130
24000.0	415.9	-15.9	-35.0	19.0	565.3	623.7	189.3	9.8	1.000128
24500.0	407.6	-17.9	-35.8	19.0	556.1	622.5	192.7	9.3	1.000126
25000.0	399.4	-18.9	-36.6	19.0	547.1	621.3	193.2	8.2	1.000123
25500.0	391.2	-20.2	-37.7	19.1	538.7	619.6	194.3	7.6	1.000121
26000.0	383.1	-21.6	-38.8	19.3	530.3	618.0	196.0	7.5	1.000119
26500.0	375.2	-22.9	-39.8	19.4	522.2	616.4	197.9	7.7	1.000117
27000.0	367.5	-24.2	-40.9	19.5	514.1	614.7	199.8	9.5	1.000116
27500.0	359.9	-25.5	-42.0	19.6	506.3	613.1	201.6	9.7	1.000114
28000.0	352.5	-26.9	-43.0	19.8	498.5	611.4	203.2	11.3	1.000112
28500.0	345.2	-28.2	-44.1	19.9	490.9	609.8	205.0	12.7	1.000110
29000.0	338.1	-29.5	-45.2	20.0	483.4	608.1	208.4	13.2	1.000108
29500.0	330.9	-30.6	-46.1	20.0	475.2	606.8	212.5	14.0	1.000106
30000.0	323.9	-31.6	-47.0	20.0	467.1	605.5	219.3	15.6	1.000105
30500.0	317.0	-32.7	-47.9	20.0	459.2	604.1	225.7	17.5	1.000103
31000.0	310.2	-33.8	-48.8	20.0	451.5	602.8	235.8	23.5	1.000101
31500.0	303.6	-34.4	-56.2	8.8..	443.0	601.9	243.1	24.0	1.000099
32000.0	297.0	-35.1			434.8	601.0	245.7	30.3	1.000097
32500.0	290.5	-35.1			427.0	599.8	247.3	36.6	1.000095
33000.0	284.2	-37.1			419.4	598.5	245.4	41.8	1.000093

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

UPPER AIR DATA
2740220662
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSI
30 SEP. 76
ASCENSION NO. 642

WSTM SITE COORDINATES
498580.00 FEET E
185045.00 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		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
33500.0	277.9	-38.1		412.0	597.2	243.1	46.8	1.000092
34000.0	271.9	-39.1		404.7	596.0	242.2	48.4	1.000090
34500.0	265.9	-40.1		397.5	594.7	241.9	48.2	1.000089
35000.0	260.1	-41.1		390.5	593.4	242.7	46.8	1.000087
35500.0	254.4	-42.1		383.5	592.2	244.4	41.7	1.000085
36000.0	248.8	-43.2		376.8	590.8	246.0	43.6	1.000084
36500.0	243.2	-44.3		370.3	589.3	247.4	43.6	1.000082
37000.0	237.7	-45.5		363.9	587.8	249.2	44.4	1.000081
37500.0	232.4	-46.7		357.6	586.2	252.1	46.8	1.000080
38000.0	227.1	-47.8		351.1	584.9	254.4	49.3	1.000078
38500.0	221.9	-48.6		344.2	583.8	254.7	51.8	1.000077
39000.0	216.8	-49.4		337.5	582.8	254.9	54.4	1.000075
39500.0	211.9	-50.1		330.9	581.8	253.9	57.8	1.000074
40000.0	207.0	-50.9		324.5	580.7	253.1	61.3	1.000072
40500.0	202.2	-51.7		318.2	579.7	252.1	66.8	1.000071
41000.0	197.5	-52.8		312.2	578.3	251.3	72.4	1.000070
41500.0	192.8	-54.1		306.5	576.6	251.4	74.2	1.000068
42000.0	188.1	-55.4		300.9	574.9	251.8	74.5	1.000067
42500.0	183.6	-56.6		295.5	573.2	252.8	74.0	1.000066
43000.0	179.2	-57.9		290.1	571.5	254.4	72.8	1.000065
43500.0	174.9	-59.2		284.9	569.8	255.8	71.6	1.000063
44000.0	170.7	-60.5		279.7	568.1	256.3	70.5	1.000062
44500.0	166.6	-61.8		274.7	566.4	256.7	69.4	1.000061
45000.0	162.6	-63.1		269.7	564.6	259.1	65.0	1.000060
45500.0	158.7	-64.4		264.9	562.9	263.1	59.7	1.000059
46000.0	154.9	-65.7		260.1	561.1	269.0	54.9	1.000058
46500.0	151.2	-67.0		255.5	559.4	275.7	51.4	1.000057
47000.0	147.5	-68.0		250.3	558.1	276.3	47.6	1.000056
47500.0	143.7	-68.8		245.0	556.9	276.6	42.1	1.000055
48000.0	140.1	-69.6		239.8	555.8	276.9	36.5	1.000053

UPPER AIR DATA
2740020662
WHITE SANDS

STATION ALTITUDE 3969.00 FEET MSL
30 SEP. 76
ASCENSION NO. 642

1350 HRS MDT

ASTM SITE COORDINATES
488500.00 FEET E
165045.00 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		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
48500.0	136.6	-70.5		234.7	554.6	276.9	30.9	1.000052
49000.0	133.1	-71.3		229.8	553.5	282.2	25.4	1.000051
49500.0	129.6	-72.1		224.9	552.3	279.8	21.0	1.000050
50000.0	126.5	-73.0		220.1	551.2	272.8	17.3	1.000049
50500.0	123.2	-73.8		215.5	550.0	267.4	15.9	1.000048
51000.0	120.1	-73.9		210.0	549.9	265.8	16.4	1.000047
51500.0	117.1	-73.9		204.6	549.9	265.9	16.3	1.000046
52000.0	114.0	-73.9		199.4	549.9	269.4	15.0	1.000044
52500.0	111.1	-73.9		194.3	549.9	268.3	13.0	1.000043
53000.0	108.3	-74.4		189.7	549.2	252.4	10.1	1.000042
53500.0	105.5	-74.8		185.3	548.6	232.2	9.3	1.000041
54000.0	102.8	-75.3		180.9	548.0	215.8	10.2	1.000040
54500.0	100.1	-74.3		175.4	549.4	219.2	9.9	1.000039
55000.0	97.6	-73.6		170.4	550.4	229.1	9.4	1.000038
55500.0	95.2	-72.9		165.5	551.3	243.2	8.7	1.000037
56000.0	92.8	-72.2		160.9	552.2	264.2	8.7	1.000036
56500.0	90.4	-71.6		156.3	553.1	272.3	9.6	1.000035
57000.0	88.2	-70.9		151.9	554.0	274.8	10.7	1.000034
57500.0	85.0	-70.3		147.6	554.9	275.5	12.4	1.000033
58000.0	83.8	-69.6		143.4	555.8	275.0	14.8	1.000032
58500.0	81.7	-69.9		139.4	556.7	274.6	17.1	1.000031
59000.0	79.6	-69.3		135.4	557.6	272.2	16.4	1.000030
59500.0	77.6	-67.6		131.6	558.5	269.6	18.8	1.000029
60000.0	75.7	-66.9		127.9	559.4	265.1	19.4	1.000028
60500.0	73.8	-66.3		124.3	560.3	261.8	20.3	1.000028
61000.0	71.9	-65.6		120.8	561.2	258.7	20.6	1.000027
61500.0	70.1	-65.0		117.4	562.1	256.3	20.1	1.000026
62000.0	68.4	-64.2		114.1	563.2	253.9	19.4	1.000025
62500.0	66.8	-63.4		110.9	564.2	251.2	18.8	1.000025
63000.0	65.2	-62.6		107.8	565.2	248.4	18.1	1.000024

UPPER AIR DATA
2740020662
WHITE SANDS

STATION ALTITUDE 2989.00 FEET MSL
30 SEP. 76
ASCENDING NO. 642

#5TH SITE COORDINATES
438580.00 FEET E
185045.00 FEET N

TABLE XII (CONT)

GEOMETRIC ALTITUDE FEET	PRESSURE MILLIBARS	TEMPERATURE IN DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
63500.0	63.6	-51.9		104.8	566.3	245.4	17.6	1.000023
64000.0	62.0	-51.1		101.9	567.3	244.6	16.1	1.000023
64500.0	60.5	-50.3		99.1	568.3	243.6	14.6	1.000022
65000.0	59.1	-50.5		96.4	569.4	242.4	13.2	1.000021
65500.0	57.7	-50.4		94.0	569.5	241.0	11.7	1.000021
66000.0	56.3	-50.4		91.7	569.6	239.1	10.3	1.000020
66500.0	54.9	-50.3		89.5	569.7	237.2	9.3	1.000020
67000.0	53.6	-50.3		87.4	569.7	234.9	8.4	1.000019
67500.0	52.4	-50.2		85.2	569.8	232.9	7.7	1.000019
68000.0	51.1	-50.2		83.2	569.9	236.2	7.6	1.000019
68500.0	49.9	-50.1		81.2	570.0	239.3	7.9	1.000018
69000.0	48.7	-50.8		79.2	570.4	232.9	4.6	1.000018
69500.0	47.6	-50.5		77.2	570.8	156.7	1.3	1.000017
70000.0	46.4	-50.1		75.3	571.2	86.5	4.3	1.000017
70500.0	45.4	-50.8		73.4	571.6	78.0	7.5	1.000016
71000.0	44.3	-50.5		71.6	572.1	74.7	10.7	1.000016
71500.0	43.3	-50.2		69.8	572.5	75.5	9.6	1.000016
72000.0	42.2	-50.9		68.0	572.9	76.8	8.4	1.000015
72500.0	41.2	-50.6		66.4	573.3	77.2	7.4	1.000015
73000.0	40.3	-50.3		64.7	573.7	76.3	6.8	1.000014
73500.0	39.3	-50.0		63.1	574.1	75.2	6.2	1.000014
74000.0	38.4	-50.7		61.5	574.5	77.0	7.0	1.000014
74500.0	37.5	-50.4		60.0	574.9	78.8	8.1	1.000013
75000.0	36.6	-50.1		58.5	575.3	82.6	9.0	1.000013
75500.0	35.6	-50.6		57.0	575.7	92.1	9.9	1.000013
76000.0	34.9	-50.5		55.6	576.1	100.0	10.9	1.000012
76500.0	34.1	-50.2		54.2	576.5	107.9	10.9	1.000012
77000.0	33.3	-50.8		52.9	576.9	117.2	10.4	1.000012
77500.0	32.5	-50.5		51.6	577.3	127.0	10.1	1.000011
78000.0	31.8	-50.2		50.3	577.7	136.5	9.8	1.000011

UPPER AIR DATA
2740020662
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
30 SEP. 76
ASCENSION NO. 042

1350 HRS MDT

VSTM SITE COORDINATES
488580.00 FEET E
185045.00 FEET N

TABLE XII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEPT DEGREES C	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
78500.0	31.2	-52.9		49.0	576.1	152.4	8.4	1.000011
79000.0	30.3	-52.6		47.6	578.5	159.2	8.4	1.000011
79500.0	29.4	-52.3		46.7	579.0	157.1	8.8	1.000010
80000.0	28.9	-52.0		45.5	579.4	155.2	9.1	1.000010
80500.0	28.2	-51.6		44.4	579.8	144.7	9.3	1.000010
81000.0	27.6	-51.3		43.3	580.3	132.5	9.9	1.000010
81500.0	27.0	-51.0		42.3	580.7	125.1	10.6	1.000009
82000.0	26.4	-50.6		41.3	581.2	122.7	10.5	1.000009
82500.0	25.8	-50.3		40.3	581.6	120.2	10.5	1.000009
83000.0	25.2	-49.9		39.3	582.0	116.6	10.6	1.000009
83500.0	24.6	-49.6		38.3	582.5	112.0	10.6	1.000009
84000.0	24.0	-49.3		37.4	582.9	107.5	10.7	1.000008
84500.0	23.5	-48.9		36.5	583.3	97.4	9.4	1.000008
85000.0	22.9	-48.6		35.6	583.8	83.5	8.3	1.000008
85500.0	22.4	-48.3		34.7	584.2	70.0	7.8	1.000008
86000.0	21.9	-47.9		33.9	584.7	65.0	7.4	1.000008
86500.0	21.4	-47.6		33.1	585.1	59.4	7.0	1.000007
87000.0	20.9	-47.3		32.3	585.5	67.1	6.6	1.000007
87500.0	20.4	-46.9		31.5	586.0	84.4	6.7	1.000007
88000.0	20.0	-46.6		30.7	586.4	99.8	7.4	1.000007
88500.0	19.5	-46.3		30.0	586.8	110.8	7.3	1.000007
89000.0	19.1	-46.0		29.3	587.1	121.7	7.4	1.000007
89500.0	18.7	-45.7		28.6	587.5	132.2	7.6	1.000006
90000.0	18.3	-45.4		28.0	587.9	143.8	7.5	1.000006
90500.0	17.9	-45.1		27.3	588.3	155.4	7.6	1.000006
91000.0	17.5	-44.8		26.7	588.6	166.1	6.1	1.000006
91500.0	17.1	-44.6		26.0	589.0	169.8	6.0	1.000006
92000.0	16.7	-44.3		25.4	589.4	173.0	7.9	1.000006
92500.0	16.3	-44.0		24.8	589.8	176.4	7.7	1.000006
93000.0	16.0	-43.7		24.3	590.1	179.8	7.2	1.000005

UPPER AIR DATA
2740020662
WHITE SANDS

STATION ALTITUDE 3949.00 FEET SI
31 SEP. 70
ASCENSION 40. 562

ASTM SITE COORDINATES
498560.00 FEET E
185045.00 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
93500.0	15.6	-43.4		23.7	590.5	173.3	6.5	1.000005
94000.0	15.3	-43.1		23.1	590.9	170.2	5.8	1.000005
94500.0	14.9	-42.8		22.6	591.3	172.1	5.0	1.000005
95000.0	14.6	-42.5		22.1	591.6	161.4	4.1	1.000005
95500.0	14.3	-42.2		21.6	592.0	195.1	3.4	1.000005
96000.0	14.0	-41.9		21.1	592.4	210.7	4.6	1.000005
96500.0	13.7	-41.7		20.6	592.7	225.0	2.2	1.000005
97000.0	13.4	-41.4		20.1	593.1	248.3	1.7	1.000004
97500.0	13.1	-41.1		19.6	593.5	261.4	2.3	1.000004
98000.0	12.8	-40.8		19.2	593.8	239.3	7.0	1.000004
98500.0	12.5	-40.5		18.7	594.2	235.3	12.0	1.000004
99000.0	12.2	-40.2		18.3	594.6	233.6	17.0	1.000004
99500.0	12.0	-39.9		17.9	595.0	222.8	11.8	1.000004
100000.0	11.7	-39.6		17.4	595.3	194.8	7.2	1.000004
100500.0	11.4	-39.3		17.0	595.7	140.8	6.9	1.000004
101000.0	11.2	-39.0		16.6	596.1			1.000004
101500.0	10.9	-38.8		16.3	596.4			1.000004
102000.0	10.7	-38.5		15.9	596.8			1.000004
102500.0	10.5	-38.2		15.5	597.2			1.000003
103000.0	10.2	-37.9		15.1	597.5			1.000003
103500.0	10.0	-37.6		14.8	597.9			1.000003

STATION ALTITUDE 1209.00 FEET (31)
 30 SEP. 79
 ASCENSION NO. 662
 1350 HRS MDT
 MANDATORY LEVELS
 2740020662
 WHITE SANDS
 SITE COORDINATES
 48850.00 FEET E
 185045.00 FEET N

TABLE XIII

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DATA	
				DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5064.	22.4	26.	92.1	5.5
800.0	6777.	17.9	26.	81.5	5.2
750.0	8572.	13.2	27.	113.8	5.1
700.0	10457.	8.1	27.	100.5	4.3
650.0	12431.	4.6	18.	144.7	12.3
600.0	14586.	3.7	17.	115.5	8.0
550.0	16983.	-1.0	18.	144.6	6.3
500.0	19150.	-7.4	20.	108.4	9.9
450.0	22019.	-12.7	19.	138.2	7.0
400.0	24932.	-18.6	19.	153.2	6.3
350.0	28141.	-27.3	20.	203.7	11.9
300.0	31721.	-34.7		244.6	27.4
250.0	35828.	-42.9		245.7	43.6
200.0	40456.	-52.1		251.7	69.4
175.0	43447.	-59.2		255.9	71.5
150.0	46555.	-67.4		275.9	50.2
125.0	50108.	-73.4		268.4	15.7
100.0	54374.	-74.2		219.5	9.9
80.0	58702.	-68.4		273.2	18.2
70.0	61152.	-64.9		256.2	20.1
60.0	64473.	-60.0		243.2	14.1
50.0	68219.	-59.1		239.0	7.9
40.0	72840.	-56.2		76.1	6.7
30.0	78889.	-52.5		158.4	8.6
25.0	82778.	-49.8		115.6	10.6
20.0	87602.	-46.6		99.0	7.4
15.0	93016.	-42.9		169.9	5.3
10.0	112992.	-37.6			

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

