

AD-A041 594 ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/6 4/2
14806AT LANCE MISSILE NUMBER 3325, ROUND NUMBER 297 APT (2 JUNE--ETC(U)
JUN 77

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June 1977

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METEOROLOGICAL DATA REPORT

14806AT LANCE
MISSILE NO. 3325, ROUND NO. 297 APT
(2 JUNE 1977)

BY

WSMR METEOROLOGICAL TEAM

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WHITE SANDS MISSILE RANGE, NEW MEXICO

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UNITED STATES ARMY ELECTRONICS COMMAND

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 14806AT Lance, Missile Number 3325, Round Number 297 APT, are presented in tabular form.		

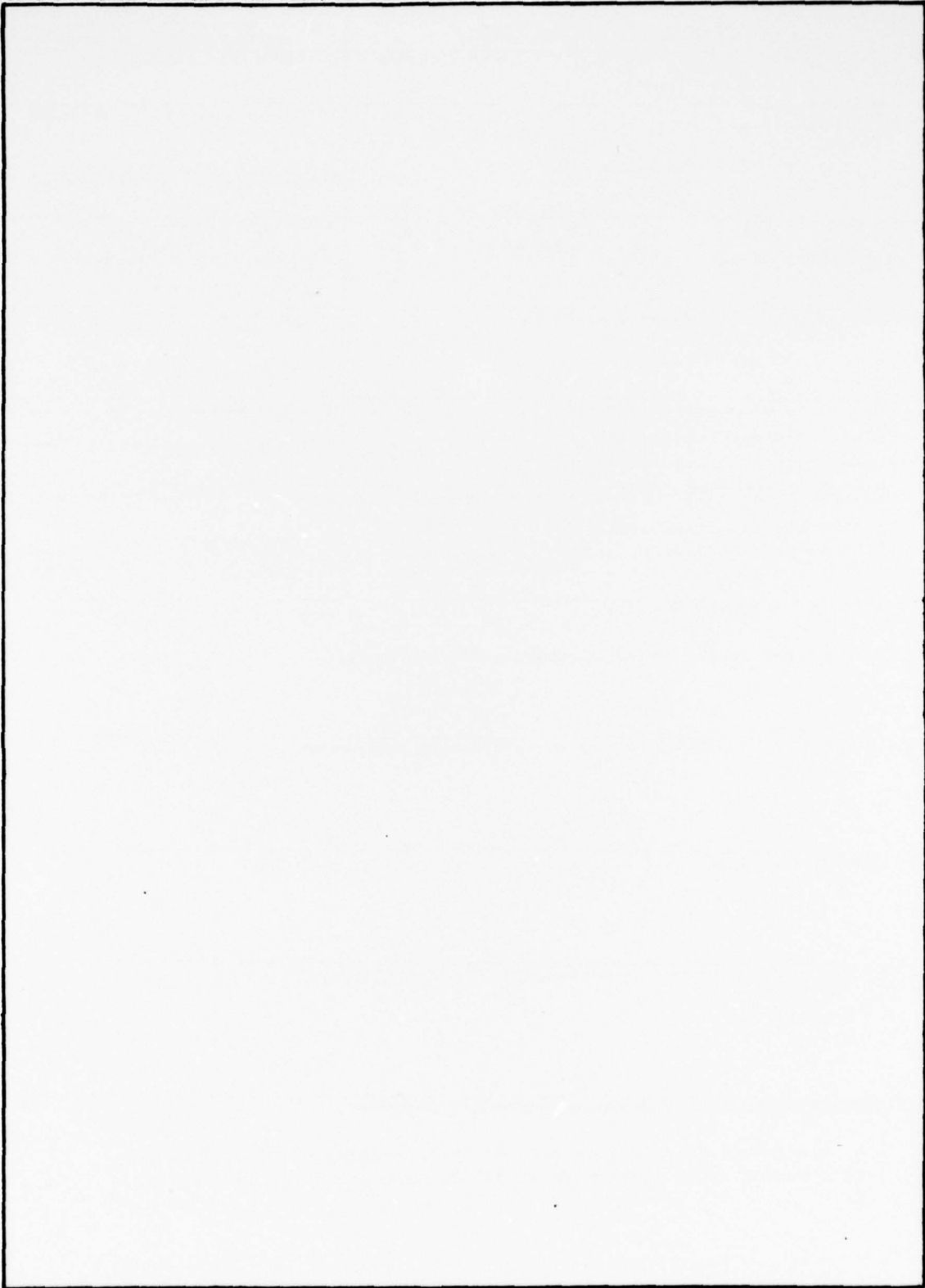
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INTRODUCTION

14806AT Lance, Missile Number 3325, Round Number 297 APT, was launched from LC-39, White Sands Missile Range (WSMR), New Mexico, at 1420 HRS MDT, 2 June 1977. The scheduled launch time was 1420 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	3990	FEET/MSL
PRESSURE	877.6	MBS
TEMPERATURE	36.6	°C
RELATIVE HUMIDITY	14.	%
DEW POINT	4.8	°C
DENSITY	981.2	GM/M ³
WIND SPEED	15 GUST 27	MPH
WIND DIRECTION	120	DEGREES
CLOUD COVER	7 2	Cb Ci

TABLE I. SURFACE OBSERVATIONS TAKEN AT WSD,
1420 HRS MDT/2 JUNE 1977.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	180	10.0	2100	203	6.0
100	177	19.0	2200	225	5.0
200	170	20.0	2300	184	2.0
300	168	18.0	2400	303	2.0
400	166	18.0	2500	224	4.0
500	167	20.0	2600	225	5.0
600	161	18.0	2700	244	4.0
700	159	18.0	2800	308	3.0
800	154	16.0	2900	185	4.0
900	174	14.0	3000	190	4.0
1000	159	15.0	3100	201	4.0
1100	165	15.0	3200	189	5.0
1200	180	12.0	3300	187	6.5
1300	172	15.0	3400	190	8.0
1400	176	12.0	3500	172	10.0
1500	172	5.0	3600	190	7.0
1600	163	4.0	3700	173	10.0
1700	142	4.0	3800	180	7.0
1800	159	8.0	3900	169	4.5
1900	149	6.0	4000	171	7.0
2000	135	3.0	4100	175	7.5

TABLE II. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM LC-39, AT 1410 MDT/2 JUNE 1977
14806AT LANCE, MISSILE NO. 3325, ROUND NO. 297APT

PIBAL RELEASE POINT WSTM COORDINATES:

X = 530,938.82 Y = 186,564.96 Z = 4,063.75

APPROXIMATELY: 1 MILE SOUTH OF LAUNCHER

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	191	7.5	5700	150	3.0
4300	182	5.5	5800	152	4.0
4400	182	4.5	5900	153	4.0
4500	172	4.0	6000	154	4.0
4600	165	9.0	6100	158	4.0
4700	160	8.0	6200	163	6.0
4800	164	8.0	6300	168	8.0
4900	177	7.0	6400	136	6.0
5000	192	5.0	6500	136	7.0
5100	190	3.0	6600	121	6.0
5200	190	6.0	6700	124	5.0
5300	200	3.0	6800	142	9.0
5400	170	4.0	6900	152	9.0
5500	141	5.0	7000	151	9.0
5600	153	6.0			

TABLE II. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	200	10.0	2100	181	4.5
100	205	19.0	2200	181	6.0
200	205	19.0	2300	209	3.5
300	204	20.0	2400	206	5.0
400	203	21.0	2500	190	7.5
500	206	19.0	2600	212	7.5
600	196	21.0	2700	199	7.0
700	194	21.0	2800	190	8.0
800	194	17.5	2900	207	7.5
900	185	19.5	3000	190	3.5
1000	190	15.5	3100	190	8.0
1100	198	14.5	3200	204	7.5
1200	173	13.0	3300	183	10.0
1300	160	10.0	3400	179	10.0
1400	171	9.5	3500	197	10.0
1500	166	9.5	3600	188	11.0
1600	169	7.5	3700	191	8.0
1700	162	8.0	3800	184	7.5
1800	169	7.0	3900	202	11.5
1900	165	5.0	4000	205	10.5
2000	191	5.0	4100	204	11.0

TABLE III. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM LC-39, AT 1420 MDT/2 JUNE 1977
14806AT LANCE, MISSILE NO. 3325, ROUND NO. 297APT

PIBAL RELEASE POINT WSTM COORDINATES:

X = 530,938.82 Y = 186,564.96 Z = 4,063.75

APPROXIMATELY: 1 MILE SOUTH OF LAUNCHER

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	190	9.0	6600	140	5.0
4300	208	4.5	6700	156	6.0
4400	207	5.5	6800	157	6.0
4500	183	7.0	6900	151	9.0
4600	192	7.0	7000	140	7.5
4700	192	6.5	7100	140	4.0
4800	188	6.0	7200	140	6.0
4900	197	5.0	7300	141	6.0
5000	213	5.5	7400	141	6.5
5100	199	5.5	7500	138	5.0
5200	204	4.5	7600	135	5.5
5300	198	6.0	7700	131	5.5
5400	189	5.5	7800	125	8.0
5500	180	5.0	7900	148	8.0
5600	139	4.0	8000	119	12.0
5700	178	3.0	8100	112	11.0
5800	153	6.5	8200	108	10.0
5900	137	3.5	8300	124	10.0
6000	170	5.0	8400	143	10.0
6100	152	6.0	8500	127	12.5
6200	136	6.0	8600	130	14.0
6300	158	7.5	8700	133	13.5
6400	148	6.0	8800	130	8.5
6500	138	6.0	8900	132	11.0

TABLE III. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
9000	137	8.0	10600	157	12.5
9100	124	9.0	10700	162	16.0
9200	127	10.0	10800	155	12.0
9300	146	10.0	10900	152	10.5
9400	147	9.0	11000	161	12.5
9500	141	9.0	11100	090	9.0
9600	110	9.0	11200	137	18.0
9700	136	13.0	11300	118	21.5
9800	144	13.5	11400	123	21.0
9900	151	8.0	11500	118	25.5
10000	149	10.5	11600	122	15.0
10100	164	10.5	11700	117	17.5
10200	170	10.5	11800	122	17.5
10300	165	16.5	11900	132	12.0
10400	162	12.5	12000	119	25.0
10500	165	13.5			

TABLE III. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

SIGNIFICANT LEVEL DATA
 1530000732
 JALLFN
 TABLE IV.

STATION ALTITUDE 4051.00 FEET MSI
 2 JUNE 77 1305 HRS MDT
 ASCENSION NO. 232

WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

PRESSURE	GEOMETRIC	TEMPERATURE	REL. HUM.	
MILLIBARS	ALTITUDE	AIR DEWPOINT	PERCENT	
MSL FEET	DEGREES	CENTIGRADE		
876.4	4051.0	32.1	9.6	25.0
866.3	4390.8	28.5	5.0	24.0
850.0	4942.5	26.8	5.1	25.0
700.0	10425.4	12.4	-8.5	26.0
616.3	13875.4	3.5	-10.1	24.0
562.9	16760.1	-3.7	-16.9	25.0
547.3	10987.5	-5.7	-14.0	22.0
520.5	18274.6	-8.6	-29.5	24.0
500.0	19294.9	-10.6	-29.1	20.0
452.7	21812.2	-14.5	-30.1	25.0
450.0	21939.3	-14.7	-26.1	37.0
419.2	23695.6	-17.5	-37.8	15.0
400.0	24844.1	-20.4	-35.2	25.0
338.1	28850.3	-30.7	-37.7	50.0
300.0	31610.1	-37.8	-45.1	46.0
278.8	33258.9	-41.9	-49.7	42.0
252.3	35456.4	-48.1		
250.0	35655.0	-48.4		
215.7	38859.9	-53.2		
200.0	40422.1	-53.8		
180.3	42621.1	-53.0		
150.0	46466.7	-60.2		
105.3	53566.0	-70.5		
100.0	54578.2	-70.1		
95.5	55478.7	-71.4		
73.3	60677.9	-68.2		
70.0	61605.9	-61.4		
57.3	55713.7	-60.5		
55.3	66449.5	-57.6		
50.0	69553.8	-56.9		

STATION ALTITUDE 4051.00 FEET MSL
2 JUNE 77
ASCENSION NO. 232

SIGNIFICANT LEVEL DATA
15300232
JALLEN

WSTM SITE COORDINATES
450491.60 FEET E
464023.05 FEET N

TABLE IV. (CONT)

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MEL FEET	TEMPERATURE AIR DEMPPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
30.0 79343.9	-52.8	
22.3 85752.1	-46.7	
20.3 87841.7	-42.9	

UPPER AIR DATA
 1530030732
 JALLEN
 TABLE V.

STATION ALTITUDE 4051.00 FEET MSL
 2 JUNE 77 1305 HRS MDT
 ASCENSION NO. 237

MSM 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 KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
4051.0	876.4	32.1	9.6	25.0	995.0	682.4	170.0	5.1	1.000270
4500.0	863.0	28.2	5.8	24.2	997.8	677.6	171.0	5.0	1.000260
5000.0	846.3	26.6	5.0	25.0	981.8	675.0	172.1	5.0	1.000256
5500.0	833.4	25.3	4.0	25.1	969.1	674.3	173.2	4.9	1.000250
6000.0	818.8	24.0	2.9	25.2	950.5	672.8	173.6	3.8	1.000245
6500.0	804.4	22.7	1.8	25.3	940.0	671.2	173.9	2.7	1.000241
7000.0	790.3	21.4	.8	25.4	931.8	669.6	173.7	2.1	1.000236
7500.0	776.4	20.1	-.3	25.5	919.7	668.1	173.3	2.3	1.000231
8000.0	762.8	18.8	-1.7	25.6	907.8	666.5	173.2	3.1	1.000227
8500.0	749.4	17.5	-2.4	25.6	896.0	665.0	172.7	4.3	1.000223
9000.0	736.2	16.1	-3.5	25.7	884.4	663.4	172.4	5.6	1.000218
9500.0	723.3	14.8	-4.6	25.8	872.0	661.9	172.0	5.7	1.000214
10000.0	710.6	13.5	-5.6	25.9	861.7	660.3	171.6	5.4	1.000211
10500.0	698.1	12.2	-6.7	26.0	850.5	658.8	170.7	4.5	1.000207
11000.0	685.3	10.9	-8.0	25.7	838.9	657.2	169.6	3.9	1.000203
11500.0	672.8	9.6	-9.2	25.4	827.4	655.7	168.4	3.5	1.000199
12000.0	660.5	8.3	-10.5	25.1	816.1	654.1	165.9	3.1	1.000195
12500.0	648.4	7.0	-11.7	24.8	805.0	652.6	160.7	2.5	1.000191
13000.0	636.5	5.8	-13.0	24.5	794.0	651.1	134.0	2.0	1.000188
13500.0	624.9	4.5	-14.2	24.2	783.2	649.5	106.7	2.4	1.000184
14000.0	613.4	3.1	-15.2	24.6	772.6	647.9	96.9	3.6	1.000181
14500.0	601.8	1.6	-15.4	26.9	762.2	646.1	90.1	4.5	1.000179
15000.0	590.5	.1	-15.7	29.2	752.0	644.4	104.6	5.1	1.000177
15500.0	579.4	-1.4	-16.1	31.5	741.9	642.6	112.5	5.6	1.000174
16000.0	568.5	-2.9	-16.6	33.8	732.0	640.8	119.9	6.1	1.000172
16500.0	557.7	-4.4	-15.7	40.6	721.9	639.1	130.4	6.5	1.000170
17000.0	547.0	-5.7	-14.0	51.7	711.6	637.5	140.0	7.0	1.000169
17500.0	536.5	-6.9	-17.9	40.9	701.1	635.1	154.0	7.0	1.000164
18000.0	520.1	-8.0	-22.5	70.0	690.7	634.6	167.0	7.3	1.000159
18500.0	515.9	-9.0	-26.3	73.1	680.1	633.3	179.6	6.6	1.000155

UPPER AIR DATA
 1530030232
 JALLEN

STATION ALTITUDE 4051.00 FEET MSL
 2 JUNE 77 1305 HRS MDT
 ASCENSION NO. 232

WSYM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

TABLE V. (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		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
19000.0	505.6	-10.0	21.2	669.4	632.1	193.0	5.9	1.000152
19500.0	495.9	-10.9	20.4	658.6	631.0	208.8	4.1	1.000150
20000.0	486.2	-11.7	21.4	647.5	630.1	221.2	2.6	1.000147
20500.0	476.6	-12.5	22.4	636.6	629.1	184.6	1.7	1.000145
21000.0	467.2	-13.2	23.4	625.9	628.2	140.3	2.7	1.000142
21500.0	458.0	-14.0	24.4	615.4	627.3	137.7	5.4	1.000140
22000.0	448.9	-14.8	26.2	604.9	626.4	138.8	7.2	1.000139
22500.0	439.9	-15.6	30.0	594.8	625.4	140.4	8.7	1.000136
23000.0	431.1	-16.4	33.7	584.8	624.4	143.7	7.9	1.000133
23500.0	422.5	-17.2	17.4	574.9	623.4	147.5	7.1	1.000130
24000.0	414.0	-18.3	17.7	565.7	622.0	151.8	6.2	1.000127
24500.0	405.7	-19.5	22.0	557.1	620.5	157.0	5.9	1.000126
25000.0	397.4	-20.8	26.0	548.4	619.0	161.6	6.2	1.000124
25500.0	389.2	-22.1	29.1	539.8	617.4	168.1	6.3	1.000122
26000.0	381.1	-23.4	32.2	531.3	615.8	175.9	6.4	1.000120
26500.0	373.2	-24.7	35.3	527.0	614.2	178.6	6.1	1.000116
27000.0	365.4	-25.9	38.4	518.8	612.6	180.9	5.9	1.000116
27500.0	357.9	-27.2	41.5	506.8	611.0	182.9	6.0	1.000115
28000.0	350.5	-28.5	44.7	498.9	609.4	185.0	6.2	1.000113
28500.0	343.2	-29.8	47.8	491.1	607.8	187.2	6.5	1.000111
29000.0	336.0	-31.1	49.8	483.4	606.2	189.3	6.9	1.000109
29500.0	328.8	-32.4	49.1	475.6	604.6	191.5	7.2	1.000107
30000.0	321.7	-33.6	48.3	467.9	603.0	192.7	7.5	1.000105
30500.0	314.8	-34.9	47.6	460.3	601.3	192.7	7.7	1.000104
31000.0	308.1	-36.2	46.9	452.9	599.7	191.6	7.8	1.000102
31500.0	301.4	-37.5	46.2	445.6	598.1	189.8	7.6	1.000100
32000.0	294.8	-38.8	45.1	438.7	596.5	186.1	7.2	1.000098
32500.0	288.4	-40.0	43.8	430.8	594.9	183.1	6.5	1.000097
33000.0	282.0	-41.3	42.6	423.6	593.3	179.2	5.9	1.000095
33500.0	275.8	-42.6	37.4**	416.5	591.6	174.0	5.4	1.000093

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

UPPER AIR DATA
 1520030Z
 JALLEN
 TABLE V. (CONT)

STATION ALTITUDE 4051.00 FEET MSL
 7 JUNE 77 1305 HRS MDT
 ASCENSION NO. 272

UPPER AIR DATA
 1520030Z
 JALLEN
 TABLE V. (CONT)

STATION ALTITUDE 4051.00 FEET MSL
 7 JUNE 77 1305 HRS MDT
 ASCENSION NO. 272

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA			INDEX OF REFRACTION
							DIRECTION DEGREES(TN)	SPEED KNOTS	REFRACTION	
34000.0	269.6	-44.0	-55.0	27.8**	409.8	589.8	174.2	4.8	1.000092	
34500.0	263.5	-45.4	-59.5	18.3**	403.1	587.9	185.7	4.0	1.000090	
35000.0	257.6	-46.8	-66.2	9.7**	396.5	586.1	218.1	3.7	1.000088	
35500.0	251.8	-48.2			389.9	584.3	256.7	5.8	1.000087	
36000.0	246.0	-48.9			382.2	583.4	270.7	3.2	1.000085	
36500.0	240.3	-49.7			374.6	582.4	276.0	13.2	1.000083	
37000.0	234.8	-50.4			367.2	581.4	278.1	16.6	1.000082	
37500.0	229.4	-51.2			360.0	580.4	278.3	18.8	1.000080	
38000.0	224.1	-51.9			352.9	579.5	277.9	20.8	1.000079	
38500.0	218.9	-52.7			345.9	578.5	275.8	21.5	1.000077	
39000.0	213.9	-53.3			338.8	577.7	273.6	22.7	1.000075	
39500.0	208.9	-53.4			331.2	577.5	269.2	24.3	1.000074	
40000.0	204.0	-53.6			323.8	577.2	265.3	26.1	1.000072	
40500.0	199.3	-53.8			316.4	577.0	265.8	27.7	1.000070	
41000.0	194.6	-53.6			308.8	577.3	266.6	29.3	1.000069	
41500.0	190.1	-53.4			301.4	577.5	269.1	30.5	1.000067	
42000.0	185.7	-53.2			294.1	577.7	272.1	31.6	1.000066	
42500.0	181.3	-53.0			287.0	578.0	271.1	31.8	1.000064	
43000.0	177.1	-53.7			281.1	577.1	268.1	31.5	1.000063	
43500.0	172.9	-54.6			275.6	575.9	264.6	32.1	1.000061	
44000.0	168.8	-55.6			270.3	574.6	260.9	33.3	1.000060	
44500.0	164.8	-56.5			265.0	573.4	258.5	34.6	1.000059	
45000.0	160.9	-57.5			259.9	572.2	258.4	36.1	1.000058	
45500.0	157.1	-58.4			254.8	570.9	258.3	37.6	1.000057	
46000.0	153.4	-59.3			249.9	569.7	258.9	37.1	1.000056	
46500.0	149.8	-60.2			245.0	568.4	259.5	36.5	1.000055	
47000.0	146.1	-61.0			239.8	567.5	262.0	35.7	1.000053	
47500.0	142.5	-61.7			234.7	566.5	265.1	33.7	1.000052	
48000.0	139.0	-62.4			229.7	565.5	270.2	32.1	1.000051	
48500.0	135.5	-63.1			224.9	564.6	273.6	29.9	1.000050	

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

UPPER AIR DATA
 1520030032
 JALLEN
 WSTM SITE COORDINATES
 450491.60 FEET E
 464027.05 FEET N

STATION ALTITUDE 4051.00 FEET MSL
 2 JUNE 77 1305 HRS MDT
 ASCENSION NO. 232

TABLE V. (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 CENTIGRADS				DIRECTION DEGREES(TM)	SPEED KNOTS	
49000.0	132.2	-63.9			220.1	553.6	277.6	27.9	1.000049
49500.0	129.0	-64.6			215.4	552.6	273.3	25.5	1.000048
50000.0	125.8	-65.3			210.8	551.6	266.4	23.4	1.000047
50500.0	122.7	-66.1			206.4	550.6	260.5	22.4	1.000046
51000.0	119.7	-66.8			202.0	559.7	256.5	22.3	1.000045
51500.0	116.7	-67.5			197.7	558.7	252.9	22.4	1.000044
52000.0	113.8	-68.2			193.5	557.7	255.8	23.5	1.000043
52500.0	111.0	-69.0			189.4	556.7	258.5	24.7	1.000042
53000.0	108.3	-69.7			185.4	555.7	258.3	23.7	1.000041
53500.0	105.6	-70.4			181.5	554.7	255.9	21.3	1.000040
54000.0	103.0	-70.3			176.9	554.8	253.0	19.0	1.000039
54500.0	100.4	-70.1			172.7	555.1	250.9	16.8	1.000038
55000.0	97.9	-70.7			168.4	554.3	248.1	14.7	1.000038
55500.0	95.4	-71.4			164.7	553.4	245.9	14.3	1.000037
56000.0	93.0	-71.1			160.3	553.8	244.3	14.7	1.000036
56500.0	90.7	-70.8			156.1	554.2	242.1	14.7	1.000035
57000.0	88.4	-70.5			151.9	554.6	237.9	14.1	1.000034
57500.0	86.2	-70.2			147.6	555.1	233.2	13.5	1.000033
58000.0	84.0	-69.8			143.9	555.5	229.9	12.2	1.000032
58500.0	81.9	-69.5			140.1	555.9	227.2	10.3	1.000031
59000.0	79.8	-69.2			136.4	556.3	223.3	8.4	1.000030
59500.0	77.8	-68.0			132.8	556.7	210.7	6.2	1.000030
60000.0	75.9	-68.6			129.2	557.2	165.5	4.6	1.000029
60500.0	74.0	-68.3			125.8	557.6	149.8	4.4	1.000028
61000.0	72.1	-65.8			121.2	560.9	122.4	5.4	1.000027
61500.0	70.4	-62.2			116.2	565.9	106.1	7.2	1.000026
62000.0	68.7	-61.3			112.9	567.0	103.7	9.3	1.000025
62500.0	67.0	-61.2			110.1	567.2	105.5	11.4	1.000025
63000.0	65.4	-61.1			107.4	567.3	108.5	13.5	1.000024
63500.0	63.8	-61.0			104.8	567.5	109.9	13.6	1.000023

UPPER AIR DATA
 1530030732
 JALLEN
 TABLE V. (CONT)

STATION ALTITUDE 4051.00 FEET MSI
 2 JUNE 77 1305 HRS NDT
 ASCENSION NO. 237

UPPER AIR DATA
 1530030732
 JALLEN
 TABLE V. (CONT)

UPPER AIR DATA
 1530030732
 JALLEN
 TABLE V. (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
64000.0	62.3	-60.9			102.2	567.6	111.3	13.3	1.000023
64500.0	60.8	-50.8			99.7	557.7	111.0	12.7	1.000022
65000.0	59.3	-60.7			97.3	567.0	104.7	11.1	1.000022
65500.0	57.9	-60.5			94.9	568.0	96.4	9.7	1.000021
66000.0	56.5	-55.4			92.1	569.0	88.5	6.4	1.000021
66500.0	55.2	-57.6			89.7	572.0	79.2	7.2	1.000020
67000.0	53.9	-57.4			87.0	572.2	71.5	6.4	1.000019
67500.0	52.6	-57.3			84.9	572.4	80.8	6.2	1.000019
68000.0	51.3	-57.1			82.8	572.6	90.6	6.1	1.000018
68500.0	50.1	-56.9			80.8	572.9	104.9	6.5	1.000018
69000.0	49.0	-56.7			78.8	573.1	118.3	7.6	1.000018
69500.0	47.8	-56.5			76.9	573.4	128.1	9.0	1.000017
70000.0	46.7	-56.4			75.0	573.6	134.0	8.9	1.000017
70500.0	45.6	-56.2			73.2	573.9	139.8	8.1	1.000016
71000.0	44.5	-56.0			71.4	574.1	146.8	7.4	1.000016
71500.0	43.5	-55.8			69.7	574.4	149.3	6.8	1.000016
72000.0	42.5	-55.6			68.0	574.6	146.9	6.3	1.000015
72500.0	41.5	-55.4			66.4	574.9	144.2	5.8	1.000015
73000.0	40.5	-55.2			64.8	575.1	135.8	5.9	1.000014
73500.0	39.6	-55.0			63.2	575.4	124.1	7.2	1.000014
74000.0	38.6	-54.8			61.7	575.6	116.2	8.7	1.000014
74500.0	37.7	-54.6			60.2	575.9	111.0	10.1	1.000013
75000.0	36.8	-54.5			58.7	576.1	111.1	11.2	1.000013
75500.0	36.0	-54.3			57.3	576.4	110.4	12.3	1.000013
76000.0	35.1	-54.1			55.9	576.6	110.0	12.9	1.000012
76500.0	34.3	-53.9			54.5	576.9	110.1	12.6	1.000012
77000.0	33.5	-53.7			53.2	577.1	110.2	12.2	1.000012
77500.0	32.7	-53.5			51.9	577.4	107.8	12.0	1.000012
78000.0	32.0	-53.3			50.7	577.6	101.0	11.8	1.000011
78500.0	31.2	-53.1			49.4	577.9	94.2	11.6	1.000011

UPPER AIR DATA
 1530070332
 JALLEN
 WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

STATION ALTITUDE 4051.00 FEET MSL
 2 JUNE 77
 1305 HRS MDT
 ASCENSION NO. 272

TABLE V. (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
79000.0	30.5	-52.9		48.2	578.1	87.8	12.1	1.000011
79500.0	29.8	-52.7		47.1	578.5	87.7	12.9	1.000010
80000.0	29.1	-52.2		45.0	579.1	78.2	13.8	1.000010
80500.0	28.4	-51.7		44.7	579.7	76.9	14.2	1.000010
81000.0	27.8	-51.2		42.5	580.4	77.6	13.7	1.000010
81500.0	27.2	-50.8		41.5	581.0	84.4	13.3	1.000009
82000.0	26.5	-50.3		40.4	581.6	88.4	12.9	1.000009
82500.0	25.9	-49.8		39.9	582.2	90.5	11.4	1.000009
83000.0	25.3	-49.3		39.9	582.8	93.2	9.9	1.000009
83500.0	24.8	-48.8		38.5	583.5	96.9	8.6	1.000009
84000.0	24.2	-48.4		37.5	584.1	100.3	7.3	1.000008
84500.0	23.6	-47.9		36.6	584.7	96.8	6.6	1.000008
85000.0	23.1	-47.4		35.6	585.3	97.4	5.9	1.000008
85500.0	22.6	-46.9		34.8	585.9	86.8	5.3	1.000008
86000.0	22.1	-46.3		33.9	586.8			1.000008
86500.0	21.6	-45.4		33.0	588.0			1.000007
87000.0	21.1	-44.4		32.1	589.2			1.000007
87500.0	20.6	-43.5		31.2	590.3			1.000007

STATION ALTITUDE 4051.00 FEET MSL
 2 JUNE 77
 ASCENSION NO. 272
 1305 HRS MDT

MANDATORY LEVELS
 1530030232
 JALLEN
 TABLE VI.

WSTM SITE COORDINATES
 #50491.60 FEET E
 464023.05 FEET N

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4941.	26.8	5.1	25.	172.0	5.0
800.0	5692.	22.3	1.5	25.	173.9	2.5
750.0	6505.	17.0	-2.4	26.	172.7	4.4
700.0	7420.	12.4	-6.5	26.	170.8	4.6
650.0	8438.	7.2	-11.5	25.	162.5	2.6
600.0	9476.	1.4	-15.4	27.	100.1	4.6
550.0	10445.	-5.7	-14.3	49.	137.5	6.8
500.0	11275.	-10.6	-29.1	20.	200.8	4.8
450.0	11914.	-14.7	-20.1	37.	139.6	7.0
400.0	12411.	-20.4	-35.2	25.	160.2	6.1
350.0	12803.	-28.6	-76.8	45.	185.2	6.2
300.0	13158.	-37.8	-45.1	46.	188.2	7.6
250.0	13589.	-48.4			262.6	6.7
200.0	14038.	-53.8			265.7	27.4
175.0	143157.	-54.2			266.6	71.5
150.0	146357.	-60.2			259.5	36.6
125.0	150741.	-65.6			264.0	22.8
100.0	154429.	-70.7			250.5	16.5
80.0	158776.	-69.3			223.8	8.6
70.0	161417.	-61.4			103.9	7.6
60.0	164559.	-60.7			108.0	11.9
50.0	168221.	-56.2			106.2	5.6
40.0	172977.	-55.1			129.8	6.5
30.0	179037.	-52.8			84.3	12.6
25.0	182931.	-49.1			95.0	5.2

STATION ALTITUDE 4940.00 FEET MSL
 2 JUNE 77 1400 HRS MDT
 ASCENSION NO. 113

SIGNIFICANT LEVEL DATA
 153004C113
 STATION
 TABLE VII.

WSTM SITE COORDINATES
 403783.00 FEET E
 701403.00 FEET N

PRESSURE GEOMETRIC ALTITUDE		TEMPERATURE		REL. HUM.
MILLIBARS	MSL FEET	AIR DEGREE	DEWPOINT CENTIGRADE	PERCENT
848.9	4940.0	31.0	3.9	18.0
831.3	5552.1	27.4	10.6	35.0
790.3	7012.3	23.4	17.5	36.0
700.0	10435.0	14.2	2.5	45.0
616.3	13898.4	2.9	-4.5	58.0
565.8	16147.9	-4.0	-4.7	95.0
532.3	17724.7	-7.1	-7.2	99.0
521.3	18258.6	-9.1	-19.4	60.0
516.8	18479.6	-8.7	-13.9	66.0
504.3	19101.9	-10.5	-13.7	77.0
500.0	19318.5	-11.4	-17.6	60.0
492.3	19709.7	-12.0	-18.4	59.0
484.8	20096.7	-11.5	-13.8	83.0
463.3	21234.7	-14.5	-21.3	56.0
433.8	22867.3	-17.1	-19.9	79.0
400.0	24851.3	-21.9	-25.6	72.0
392.3	25321.2	-22.9	-24.8	53.0
379.3	26131.1	-24.8	-34.4	40.0
354.3	27750.0	-28.9	-36.6	47.0
300.0	31595.8	-37.8	-48.0	33.0
294.8	31991.5	-39.2	-49.8	31.0
250.0	35635.3	-48.6		
214.3	38934.8	-53.7		
200.0	40395.4	-54.2		
168.3	44029.1	-55.7		

UPPER AIR DATA
 1530040113
 STATION
 TABLE VIII.

STATION ALTITUDE 4900.00 FEET MSL
 2 JUNE 77
 ASCENSION NO. 113

WSTM SITE COORDINATES
 403783.00 FEET E
 701403.00 FEET N

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	
4900.0	848.9	31.0	3.9	18.0	968.48	680.6	210.0	14.0	1.000249
5000.0	847.2	30.6	4.9	19.7	967.7	680.3	210.3	14.1	1.000251
5500.0	832.8	27.7	10.2	33.6	958.8	677.7	212.3	15.2	1.000266
6000.0	810.5	26.2	9.6	35.3	947.3	675.9	214.1	16.3	1.000262
6500.0	804.4	24.8	8.6	35.6	935.6	674.2	215.7	17.4	1.000256
7000.0	790.6	23.4	7.5	36.0	924.1	672.6	215.4	17.0	1.000251
7500.0	776.8	22.1	6.8	37.3	912.1	671.0	214.5	16.0	1.000246
8000.0	763.1	20.7	6.2	38.6	900.3	669.4	211.9	15.5	1.000242
8500.0	749.7	19.4	5.4	39.9	888.7	667.9	208.7	15.1	1.000238
9000.0	736.5	18.1	4.7	41.2	877.2	666.3	204.5	14.5	1.000234
9500.0	723.6	16.7	3.9	42.5	865.9	664.7	198.6	13.7	1.000230
10000.0	710.9	15.4	3.1	43.9	854.8	663.1	193.3	13.2	1.000225
10500.0	698.3	14.0	2.3	45.2	843.9	661.4	191.4	13.1	1.000221
11000.0	685.6	12.4	1.4	47.1	833.4	659.5	189.2	13.0	1.000217
11500.0	673.1	10.7	.5	49.0	823.1	657.6	185.7	12.7	1.000213
12000.0	660.9	9.1	-.5	50.9	812.9	655.6	182.5	12.7	1.000209
12500.0	648.8	7.5	-1.5	52.8	802.9	653.6	179.7	12.8	1.000205
13000.0	637.0	5.8	-2.6	54.6	793.0	651.7	177.3	11.1	1.000201
13500.0	625.4	4.2	-3.7	56.5	783.3	649.7	173.9	8.9	1.000197
14000.0	613.9	2.6	-4.4	59.7	773.5	647.8	164.7	7.1	1.000194
14500.0	602.4	1.1	-4.2	67.9	763.1	646.0	150.1	5.6	1.000193
15000.0	591.0	-.5	-4.2	76.1	752.9	644.2	135.6	5.2	1.000191
15500.0	579.9	-2.0	-4.3	84.3	742.9	642.4	120.3	4.9	1.000188
16000.0	569.0	-3.5	-4.6	92.6	733.1	640.6	103.2	4.2	1.000186
16500.0	558.1	-4.7	-5.2	95.9	722.2	639.2	92.6	3.7	1.000183
17000.0	547.4	-5.7	-6.1	97.2	711.1	638.0	100.5	3.0	1.000179
17500.0	536.9	-6.7	-6.9	98.4	700.1	636.8	122.5	2.5	1.000175
18000.0	526.6	-8.1	-11.1	78.9	690.9	634.8	153.3	2.9	1.000168
18500.0	516.4	-8.8	-13.9	66.4	679.4	633.9	177.1	3.6	1.000163
19000.0	506.3	-10.2	-13.7	75.2	669.8	632.2	194.4	4.6	1.000161

UPPER AIR DATA
 1530040113
 STATION
 TABLE VIII. (CONT)

STATION ALTITUDE 9940.00 FEET MSL
 2 JUNE 77 1400 HRS MDT
 ASCENSION NO. 113

NSIM SITE COORDINATES
 403783.00 FEET E
 701403.00 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
							DIRECTION DEGREES(TN)	SPEED KNOTS	
19500.0	496.4	-11.7	-17.9	59.5	560.6	630.3	202.3	6.0	1.000155
20000.0	486.7	-11.6	-14.8	77.0	647.3	630.5	205.9	7.6	1.000155
20500.0	477.1	-12.6	-16.3	73.4	636.9	629.3	205.8	7.6	1.000151
21000.0	467.7	-13.9	-19.6	61.6	627.7	627.6	202.8	6.2	1.000147
21500.0	458.4	-14.9	-21.0	59.7	617.9	626.3	197.2	4.4	1.000144
22000.0	449.2	-15.7	-20.5	66.8	607.3	625.4	180.0	2.2	1.000142
22500.0	440.3	-16.5	-20.1	73.8	597.0	624.4	153.1	2.0	1.000140
23000.0	431.5	-17.4	-20.2	78.5	587.1	623.3	145.4	2.7	1.000138
23500.0	422.7	-18.6	-21.7	76.8	578.0	621.8	144.0	3.5	1.000135
24000.0	414.2	-19.8	-23.1	75.0	569.1	620.3	144.4	4.2	1.000132
24500.0	405.8	-21.1	-24.5	73.2	560.3	618.8	149.6	4.9	1.000130
25000.0	397.5	-22.2	-26.8	66.0	551.6	617.3	155.5	5.5	1.000127
25500.0	389.4	-23.3	-30.8	50.1	542.7	615.9	167.6	6.1	1.000124
26000.0	381.4	-24.5	-33.6	42.1	534.1	614.4	179.6	7.1	1.000121
26500.0	373.5	-25.7	-34.9	41.6	525.7	612.9	188.0	7.4	1.000119
27000.0	365.7	-27.0	-35.6	43.8	517.4	611.3	195.9	7.4	1.000117
27500.0	358.1	-28.3	-36.2	45.9	509.2	609.7	196.2	7.0	1.000115
28000.0	350.5	-29.5	-37.3	46.1	500.9	608.2	192.9	6.4	1.000113
28500.0	343.0	-30.6	-38.8	44.3	492.6	606.8	197.6	6.2	1.000111
29000.0	335.7	-31.8	-40.3	42.4	484.4	605.3	193.6	6.2	1.000109
29500.0	328.5	-32.9	-41.7	40.6	476.3	603.8	197.5	7.0	1.000107
30000.0	321.4	-34.1	-43.2	38.8	468.4	602.4	200.9	8.1	1.000105
30500.0	314.6	-35.3	-44.7	37.0	460.6	600.9	201.7	9.9	1.000103
31000.0	307.8	-36.4	-46.2	35.2	452.9	599.4	202.1	11.7	1.000102
31500.0	301.2	-37.6	-47.7	33.3	445.4	598.0	203.7	12.5	1.000100
32000.0	294.7	-39.2	-49.9	30.9**	438.8	595.9	205.2	13.3	1.000098
32500.0	288.1	-40.5	-52.3	26.7**	431.4	594.2	208.0	12.6	1.000096
33000.0	281.7	-41.8	-54.8	22.4**	424.1	592.6	211.3	11.9	1.000095
33500.0	275.4	-43.1	-57.6	18.2**	416.9	590.9	214.6	12.0	1.000093
34000.0	269.2	-44.4	-60.8	13.9**	409.9	589.2	217.8	12.2	1.000091

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

UPPER AIR DATA
 1530040113
 STATION
 TABLE VIII. (CONT)

STATION ALTITUDE 4940.00 FEET MSL
 2 JUNE 77
 ASCENSION NO. 113
 1400 HRS MDT

WSTM SITE COORDINATES
 403783.00 FEET E
 701403.00 FEET N

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	
34500.0	263.2	-45.7	-64.6	9.7**	403.0	587.6	219.9	12.1	1.000090
35000.0	257.3	-47.0	-69.7	5.4**	396.3	585.9	221.9	11.9	1.000088
35500.0	251.5	-48.3	-80.5	1.2**	389.6	584.2	227.8	11.4	1.000087
36000.0	245.8	-49.2			382.3	583.1	235.3	11.0	1.000085
36500.0	240.1	-49.9			374.7	582.0	251.0	11.7	1.000083
37000.0	234.6	-50.7			367.4	581.0	269.9	13.5	1.000082
37500.0	229.2	-51.5			360.1	580.0	273.3	15.4	1.000080
38000.0	223.9	-52.3			353.0	579.0	279.8	17.5	1.000079
38500.0	218.7	-53.0			346.1	578.0	278.2	18.4	1.000077
39000.0	213.6	-53.7			339.2	577.1	275.0	19.3	1.000076
39500.0	208.6	-53.9			331.5	576.9	274.2	20.2	1.000074
40000.0	203.8	-54.1			324.0	576.6	272.5	21.2	1.000072
40500.0	199.0	-54.2			316.7	576.4	272.8	23.5	1.000071
41000.0	194.3	-54.4			309.6	576.1	273.4	26.1	1.000069
41500.0	189.8	-54.7			302.6	575.9	271.7	27.9	1.000067
42000.0	185.3	-54.9			295.8	575.6	269.5	29.6	1.000066
42500.0	181.0	-55.1			289.1	575.3			1.000064
43000.0	176.7	-55.3			282.6	575.0			1.000063
43500.0	172.6	-55.5			276.2	574.8			1.000062
44000.0	168.5	-55.7			270.0	574.5			1.000060

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

STATION ALTITUDE 9940.00 FEET MSI
 2 JUNE 77 1400 HRS MDT
 ASCENSION NO. 113

MANDATORY LEVELS
 1530040113
 STALLION
 TABLE IX.

WSTM SITE COORDINATES
 403783.00 FEET E
 701403.00 FEET N

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT DEGREE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
800.0	6659.	24.4	9.2	36.	215.9	17.6	
750.0	8498.	19.4	5.5	40.	208.7	15.1	
700.0	10429.	14.2	2.5	45.	191.7	13.2	
650.0	12459.	7.6	-1.4	53.	175.9	12.8	
600.0	14598.	.7	-4.2	70.	147.2	5.5	
550.0	16866.	-5.4	-5.9	97.	98.3	3.1	
500.0	19298.	-11.4	-17.6	60.	200.6	5.5	
450.0	21933.	-15.7	-20.5	66.	182.8	2.4	
400.0	24818.	-21.9	-25.6	72.	153.8	5.3	
350.0	27995.	-29.5	-37.4	46.	192.7	6.3	
300.0	31543.	-37.8	-48.0	33.	204.0	12.6	
250.0	35569.	-48.6			229.7	11.3	
200.0	40311.	-54.2			272.6	22.9	
175.0	43113.	-55.4					

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

STATION ALTITUDE 3989.00 FEET MSL
 2 JUNE 77 1410 HRS MDT
 ASCENSION NO. 441

SIGNIFICANT LEVEL DATA
 1530000441
 WHITE SANDS
 TABLE X.

WSTM SITE COORDINATES
 488580.00 FEET E
 185045.00 FEET N

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT	
	AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE		
878.0	3989.0	76.7	4.9	14.0
872.7	4187.6	32.9	4.6	17.0
850.0	4942.1	28.6	2.7	19.0
818.7	6043.2	25.6	1.7	21.0
700.0	10449.0	13.1	-3.2	32.0
569.3	11719.5	9.0	-5.2	36.0
502.8	14444.3	1.7	-6.0	58.0
569.3	15900.6	-2.5	-17.3	31.0
542.7	17251.7	-5.2	-17.9	36.0
526.0	18022.9	-6.0	-25.8	20.0
518.3	18415.4	-7.6	-23.6	26.0
500.0	19370.2	-10.4	-18.3	52.0
477.3	20505.0	-11.2	-30.7	18.0
462.3	21379.7	-12.1	-24.7	34.0
440.3	22530.7	-14.5	-29.7	26.0
417.3	23858.6	-18.2	-31.8	29.0
400.0	24895.1	-20.1	-35.4	24.0
336.3	29041.2	-30.2	-40.6	75.0
322.8	29995.9	-32.7	-45.6	76.0
300.0	31678.2	-37.2	-48.9	28.0
250.0	35749.8	-45.9		
218.3	38689.2	-50.9		
200.0	40559.9	-52.5		
185.3	42052.5	-54.9		
173.8	43529.0	-53.9		
150.0	45609.6	-49.0		
118.8	51325.9	-67.5		
100.0	54725.0	-71.5		
72.3	61084.4	-69.0		
70.0	61726.6	-69.4		

STATION ALTITUDE 3999.00 FEET MSI
 2 JUNE 77 1410 HRS MDT
 ASCENSION NO. 491

SIGNIFICANT LEVEL DATA
 1530020441
 WHITE SANDS
 TABLE X. (CONT)

WSTM SITE COORDINATES
 488580.00 FEET E
 185045.00 FEET N

PRESSURE GEOMETRIC ALTITUDE		TEMPERATURE	REL. HUM.
MILLIBARS	MSL FEET	AIR DEGREE CENTIGRADE	PERCENT
68.8	62076.0	-62.0	
58.9	55273.0	-63.3	
53.3	67300.7	-56.1	
50.0	88942.5	-56.2	
37.3	74778.3	-57.3	
30.0	79395.2	-51.0	
20.0	88215.1	-46.2	
15.5	83914.4	-46.3	
12.8	98093.4	-78.4	
10.0	123707.5	-79.4	
9.0	106093.0	-39.9	

UPPER AIR DATA
 1530020441
 WHITE SANDS
 TABLE XI.

STATION ALTITUDE 3989.00 FEET MSL
 2 JUNE 77
 ASCENSION NO. 441
 1410 HRS MDT

WSTM SITE COORDINATES
 488580.00 FEET E
 185045.00 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION																					
									3989.0	4000.0	4500.0	5000.0	5500.0	6000.0	6500.0	7000.0	7500.0	8000.0	8500.0	9000.0	9500.0	10000.0	10500.0	11000.0	11500.0	12000.0	12500.0	13000.0	13500.0
3989.0	876.0	36.7	4.9	983.5	687.0	240.0	1.9	1.000253																					
4000.0	877.7	30.5	4.9	983.6	686.9	239.9	1.9	1.000253																					
4500.0	862.9	21.1	3.9	984.5	680.7	197.0	2.0	1.000252																					
5000.0	848.3	28.4	2.7	976.6	677.7	179.1	4.0	1.000249																					
5500.0	833.6	27.1	2.2	974.3	676.1	170.4	5.5	1.000245																					
6000.0	819.5	25.7	1.7	952.2	674.6	165.5	7.1	1.000242																					
6500.0	805.2	24.3	1.3	940.0	673.0	162.2	8.1	1.000238																					
7000.0	791.0	22.9	.9	927.9	671.3	162.2	8.2	1.000235																					
7500.0	777.1	21.5	.4	916.1	669.7	161.2	8.4	1.000232																					
8000.0	763.5	20.0	-.1	904.4	668.1	161.2	8.3	1.000228																					
8500.0	750.1	18.6	-.6	892.9	666.4	161.8	8.0	1.000225																					
9000.0	736.9	17.2	-1.3	881.6	664.8	162.4	7.8	1.000221																					
9500.0	723.9	15.8	-1.0	870.2	663.1	162.7	7.6	1.000218																					
10000.0	711.2	14.4	-2.6	859.4	661.5	161.5	7.3	1.000215																					
10500.0	698.7	12.9	-3.3	848.6	659.8	160.7	7.0	1.000211																					
11000.0	686.1	11.3	-4.1	838.1	657.9	159.9	6.9	1.000208																					
11500.0	673.7	9.7	-4.9	827.7	656.0	160.6	6.8	1.000205																					
12000.0	661.4	8.2	-5.7	816.9	654.2	161.3	6.4	1.000202																					
12500.0	649.2	6.8	-5.1	805.8	652.6	162.4	5.4	1.000200																					
13000.0	637.2	5.4	-5.2	795.0	651.0	163.2	4.9	1.000197																					
13500.0	625.4	4.0	-5.4	784.2	649.3	163.3	4.7	1.000195																					
14000.0	613.9	2.6	-5.7	773.7	647.7	162.9	4.9	1.000192																					
14500.0	602.5	1.2	-6.4	763.4	646.0	165.7	5.5	1.000189																					
15000.0	591.2	-.1	-9.7	752.7	644.4	170.0	6.3	1.000183																					
15500.0	580.0	-1.3	-13.3	742.2	642.8	169.4	6.6	1.000177																					
16000.0	569.1	-2.5	-17.0	731.8	641.2	168.7	6.9	1.000171																					
16500.0	558.2	-3.6	-17.5	720.7	640.0	161.6	6.2	1.000169																					
17000.0	547.6	-4.7	-17.7	709.9	638.7	152.3	5.5	1.000166																					
17500.0	537.1	-5.7	-20.1	698.9	637.4	136.0	5.8	1.000162																					
18000.0	526.8	-6.6	-25.5	688.0	636.2	122.3	6.4	1.000157																					

UPPER AIR DATA
 1530000041
 WHITE SANDS
 TABLE XI. (CONT)

STATION ALTITUDE 2900.00 FEET MSL
 2 JUNE 77
 ASCENSION NO. 441

15TH SITE COORDINATES
 498560.00 FEET E
 185045.00 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	WIND DIRECTION DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
						KNOTS	METERS	DIRECTION DEGREES	SPEED KNOTS	
18500.0	516.6	-8.0	-23.1	78.4	676.3	634.5	113.1	7.5	1.000156	
19000.0	506.5	-9.5	-19.8	42.6	668.6	632.9	108.2	8.2	1.000155	
19500.0	496.7	-10.5	-19.0	47.1	658.1	631.7	105.7	8.1	1.000154	
20000.0	486.9	-10.9	-24.1	37.6	646.7	631.2	108.2	7.5	1.000149	
20500.0	477.4	-11.2	-30.7	18.1	634.6	630.6	114.5	6.3	1.000144	
21000.0	468.0	-11.8	-26.6	77.8	623.4	630.0	123.2	5.2	1.000143	
21500.0	458.8	-12.5	-25.4	37.8	612.7	629.2	176.2	4.7	1.000141	
22000.0	449.7	-13.5	-27.5	29.5	607.0	628.0	148.8	3.6	1.000138	
22500.0	440.6	-14.4	-29.6	26.2	593.3	626.8	161.7	3.3	1.000135	
23000.0	432.0	-15.8	-30.4	27.1	584.6	625.1	147.2	4.3	1.000133	
23500.0	423.4	-17.2	-31.2	28.2	576.0	623.4	137.6	5.6	1.000131	
24000.0	414.9	-18.5	-32.3	28.3	567.7	621.8	139.7	7.4	1.000129	
24500.0	406.5	-19.4	-34.0	25.9	557.9	620.7	146.7	8.2	1.000126	
25000.0	398.2	-20.4	-35.5	24.3	548.7	619.5	164.3	8.1	1.000124	
25500.0	390.0	-21.6	-36.0	25.6	539.9	618.0	176.1	7.8	1.000122	
26000.0	381.9	-22.8	-36.6	25.9	531.3	616.5	186.4	7.2	1.000120	
26500.0	374.0	-24.0	-37.2	28.3	522.9	615.0	187.0	6.2	1.000118	
27000.0	366.3	-25.2	-37.8	29.6	514.6	613.5	186.5	5.7	1.000116	
27500.0	358.7	-26.4	-38.5	30.9	506.4	612.0	191.0	4.1	1.000114	
28000.0	351.3	-27.7	-39.1	32.2	498.4	610.5	198.4	3.4	1.000112	
28500.0	344.0	-28.9	-39.3	37.6	490.5	608.9	207.5	3.4	1.000110	
29000.0	336.9	-30.1	-40.5	34.9	482.8	607.4	206.2	4.0	1.000109	
29500.0	329.7	-31.4	-42.9	30.7	475.1	605.8	198.6	5.2	1.000107	
30000.0	322.7	-32.7	-45.6	26.0	467.6	604.1	187.7	6.8	1.000105	
30500.0	315.8	-34.0	-45.5	26.6	460.1	602.4	179.4	8.6	1.000103	
31000.0	309.0	-35.4	-47.6	27.2	452.7	600.7	177.4	9.2	1.000101	
31500.0	302.3	-36.7	-48.6	27.8	445.4	599.0	169.0	9.4	1.000100	
32000.0	295.7	-37.9	-50.2	25.8**	437.8	597.6	170.6	8.8	1.000098	
32500.0	289.2	-39.0	-52.4	22.3**	430.1	596.2	182.8	7.6	1.000096	
33000.0	282.8	-40.0	-54.7	18.9**	422.5	594.8	204.7	7.0	1.000094	

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

STATION ALTITUDE 1888.00 FEET MSL
 2 JUNE 77 1410 HRS MDT
 ASCENSION NO. 441

JEPPI AIR DATA
 1730020441
 WHITE SANDS
 TABLE XI. (CONT)

WSTM SITE COORDINATES
 48650.00 FEET E
 185045.00 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	DEWPOINT DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
33500.0	276.5	-41.1	-57.7	15.5**	415.1	593.5	234.5	6.9	1.000093
34000.0	270.4	-42.2	-60.0	12.0**	407.8	592.1	259.8	9.2	1.000091
34500.0	264.4	-43.2	-63.4	8.6**	400.6	590.7	270.2	16.7	1.000089
35000.0	258.5	-44.3	-67.9	5.2**	397.5	589.4	274.4	23.2	1.000088
35500.0	252.8	-45.4	-76.1	1.7**	386.5	588.0	277.4	27.1	1.000086
36000.0	247.1	-46.3			379.6	586.7	280.1	26.6	1.000085
36500.0	241.5	-47.2			372.3	585.6	284.9	20.0	1.000083
37000.0	236.0	-48.0			365.2	584.5	286.1	15.5	1.000081
37500.0	230.6	-48.9			358.2	583.4	278.9	13.1	1.000080
38000.0	225.4	-49.7			351.4	582.3	271.8	12.5	1.000078
38500.0	220.2	-50.6			344.7	581.2	268.1	13.8	1.000077
39000.0	215.1	-51.2			337.6	580.4	267.4	15.1	1.000075
39500.0	210.2	-51.6			330.5	579.9	263.8	16.2	1.000074
40000.0	205.3	-52.0			323.4	579.3	272.0	18.0	1.000072
40500.0	200.6	-52.4			316.6	578.8	273.9	20.9	1.000071
41000.0	195.9	-53.2			310.3	577.8	275.2	23.5	1.000069
41500.0	191.3	-54.0			304.1	576.7	276.2	26.2	1.000068
42000.0	186.9	-54.8			298.1	575.7	275.0	28.5	1.000066
42500.0	182.5	-54.6			290.0	575.9	274.9	30.8	1.000065
43000.0	178.2	-54.7			283.6	576.4	272.8	32.4	1.000063
43500.0	174.0	-54.9			276.6	576.8	269.3	33.3	1.000062
44000.0	169.9	-54.7			271.0	575.6	266.0	34.3	1.000060
44500.0	165.9	-55.5			265.6	574.7	263.2	35.3	1.000059
45000.0	162.0	-56.3			260.3	573.6	260.8	36.4	1.000058
45500.0	158.2	-57.2			255.1	572.5	259.4	37.2	1.000057
46000.0	154.4	-58.0			250.0	571.4	258.2	38.0	1.000056
46500.0	150.8	-58.8			245.1	570.3	259.7	36.0	1.000055
47000.0	147.1	-59.7			240.1	569.2	261.5	34.0	1.000053
47500.0	143.6	-60.6			235.3	568.0	262.0	30.7	1.000052
48000.0	140.1	-61.5			230.5	566.8	264.5	27.5	1.000051

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

UPPER AIR DATA
 1530020441
 WHITE SANDS
 TABLE XI. (CONT)

STATION ALTITUDE 2989.00 FEET MSL
 2 JUNE 77
 ASCENSION NO. 441

1410 HRS MDT

WSTM SITE COORDINATES
 488580.00 FEET E
 185045.00 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REF. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT				DIRECTION	SPEED KNOTS	
48500.0	136.6	-62.4			225.0	565.6	208.4	25.7	1.000050
49000.0	127.3	-63.3			221.3	564.4	272.9	24.1	1.000049
49500.0	130.1	-64.2			216.8	563.1	270.5	23.6	1.000048
50000.0	128.9	-65.1			212.5	561.9	266.7	23.5	1.000047
50500.0	123.8	-66.0			208.2	560.7	261.6	23.0	1.000046
51000.0	122.8	-66.9			204.0	559.5	253.4	22.0	1.000045
51500.0	117.8	-67.7			199.8	558.4	244.7	21.4	1.000044
52000.0	114.9	-68.3			195.3	557.6	245.8	20.5	1.000043
52500.0	112.0	-68.9			191.0	556.8	249.1	19.6	1.000043
53000.0	109.2	-69.5			186.7	556.0	251.7	18.9	1.000042
53500.0	106.4	-70.1			182.5	555.2	252.4	18.9	1.000041
54000.0	103.8	-70.6			178.5	554.4	253.1	18.8	1.000040
54500.0	101.2	-71.2			174.5	553.6	252.0	18.1	1.000039
55000.0	98.6	-71.4			170.3	553.4	250.5	17.3	1.000038
55500.0	96.1	-71.2			165.8	553.6	248.4	16.1	1.000037
56000.0	93.7	-71.0			161.5	553.9	244.0	11.1	1.000036
56500.0	91.3	-70.8			157.7	554.2	234.7	7.2	1.000035
57000.0	89.0	-70.6			153.2	554.4	228.6	5.0	1.000034
57500.0	86.8	-70.4			149.1	554.7	218.0	3.4	1.000033
58000.0	84.0	-70.2			145.3	555.0	216.8	3.1	1.000032
58500.0	82.5	-70.0			141.5	555.2	230.5	4.5	1.000032
59000.0	80.4	-69.8			137.8	555.5	237.4	6.0	1.000031
59500.0	78.4	-69.6			134.2	555.8	226.6	5.1	1.000030
60000.0	75.4	-69.4			130.7	556.1	211.8	4.4	1.000029
60500.0	74.5	-69.2			127.2	556.3	194.0	4.0	1.000028
61000.0	72.5	-69.0			123.9	556.6	173.5	3.8	1.000028
61500.0	70.8	-67.3			119.8	558.9	150.4	4.0	1.000027
62000.0	69.1	-63.0			114.5	564.8	112.7	5.2	1.000025
62500.0	67.4	-62.2			111.3	565.9	97.5	7.5	1.000025
63000.0	65.7	-62.4			108.7	565.6	97.0	9.2	1.000024

UPPER AIR DATA
 1530020441
 WHITE SANDS
 TABLE XI. (CONT)

STATION ALTITUDE 3900.00 FEET MSL
 2 JUNE 77
 ASCENSION NO. 441
 1410 HRS MDT

WSTM SITE COORDINATES
 488580.00 FEET E
 185045.00 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY CORRECTED SOUND METERS	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (T)	WIND SPEED KNOTS	INDEX OF REFRACTION
63500.0	54.7	-62.6		106.1	565.7	103.8	10.7	1.000074
54000.0	52.6	-62.8		103.7	565.0	109.8	11.4	1.000023
64500.0	61.1	-63.0		101.2	564.8	118.4	10.3	1.000023
65000.0	59.5	-67.2		98.9	564.5	128.8	9.4	1.000022
65500.0	58.2	-62.5		96.2	565.4	127.4	9.5	1.000021
66000.0	56.8	-57.7		93.1	557.8	125.2	9.5	1.000021
66500.0	55.4	-58.9		90.1	570.2	124.1	10.2	1.000020
67000.0	54.1	-57.2		87.2	572.5	124.1	11.6	1.000019
67500.0	52.8	-56.1		84.7	573.9	124.7	12.9	1.000019
68000.0	51.6	-56.2		82.8	573.9	115.7	10.1	1.000018
68500.0	50.3	-56.2		80.3	573.8	99.9	7.5	1.000018
69000.0	49.2	-56.7		79.0	573.7	81.5	6.1	1.000018
69500.0	48.0	-56.4		77.1	573.6	77.9	5.6	1.000017
70000.0	46.9	-56.4		75.3	573.5	62.9	5.7	1.000017
70500.0	45.8	-55.5		73.6	573.4	77.1	4.6	1.000016
71000.0	44.7	-56.6		71.0	573.3	99.6	4.4	1.000016
71500.0	43.6	-56.7		70.2	573.1	116.3	4.5	1.000016
72000.0	42.6	-56.8		68.6	573.0	119.1	4.0	1.000015
72500.0	41.6	-56.9		67.0	572.9	122.5	3.6	1.000015
73000.0	40.6	-57.0		65.4	572.8	117.6	3.3	1.000015
73500.0	39.6	-57.1		63.9	572.7	107.0	3.1	1.000014
74000.0	38.7	-57.2		62.4	572.5	96.3	3.1	1.000014
74500.0	37.8	-57.3		61.0	572.4	109.9	3.4	1.000014
75000.0	36.9	-57.0		59.5	572.8	121.0	3.8	1.000013
75500.0	36.1	-56.3		57.9	573.7	124.2	4.6	1.000013
76000.0	35.2	-55.6		56.4	574.6	119.8	5.7	1.000013
76500.0	34.4	-55.0		54.9	575.5	116.9	6.8	1.000012
77000.0	33.6	-54.3		53.5	576.4	109.7	7.9	1.000012
77500.0	32.8	-53.6		52.1	577.3	102.9	9.2	1.000012
78000.0	32.0	-52.9		50.7	578.2	98.0	10.6	1.000011

UPPER AIR DATA
 1530000441
 WHITE SANDS
 TABLE XI. (CONT)

STATION ALTITUDE 3989.00 FEET MSL
 2 JUNE 77 1410 HRS MDT
 ASCENSION NO. 001

WSTM SITE COORDINATES
 488560.00 FEET E
 185045.00 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
78500.0	31.3	-52.2		42.3	579.1	98.7	11.5	1.000011
79000.0	30.6	-51.5		48.0	579.9	99.2	12.3	1.000011
79500.0	29.9	-50.9		45.8	580.7	99.7	13.2	1.000010
80000.0	29.2	-50.7		45.7	581.1	97.0	14.0	1.000010
80500.0	28.5	-50.4		44.6	581.4	96.1	14.8	1.000010
81000.0	27.9	-50.1		43.5	581.8	94.9	15.9	1.000010
81500.0	27.2	-49.9		42.5	582.1	94.1	16.6	1.000009
82000.0	26.6	-49.6		41.5	582.5	93.3	17.9	1.000009
82500.0	26.0	-49.3		40.5	582.9	93.0	19.1	1.000009
83000.0	25.4	-49.0		39.5	583.2	93.3	21.2	1.000009
83500.0	24.8	-48.8		38.5	583.6	93.6	23.4	1.000009
84000.0	24.3	-48.5		37.6	583.9	94.2	25.0	1.000008
84500.0	23.7	-48.2		36.7	584.3	95.7	25.6	1.000008
85000.0	23.2	-47.9		35.0	584.6	97.1	26.2	1.000008
85500.0	22.7	-47.7		35.0	585.0	99.8	24.8	1.000008
86000.0	22.1	-47.4		34.2	585.3	106.2	20.1	1.000008
86500.0	21.6	-47.1		33.4	585.7	116.3	15.9	1.000007
87000.0	21.1	-46.9		32.6	586.0	125.9	12.7	1.000007
87500.0	20.7	-46.6		31.8	586.4	130.3	10.3	1.000007
88000.0	20.2	-46.3		31.0	586.7	137.3	7.9	1.000007
88500.0	19.7	-46.2		30.3	586.8	135.2	7.2	1.000007
89000.0	19.3	-46.3		29.6	586.8	122.9	8.5	1.000007
89500.0	18.9	-46.4		29.0	586.7	-114.0	10.0	1.000006
90000.0	18.4	-46.4		28.3	586.6	109.6	11.4	1.000006
90500.0	18.0	-46.5		27.7	586.5	112.7	12.1	1.000006
91000.0	17.6	-46.5		27.1	586.4	115.4	12.8	1.000006
91500.0	17.2	-46.6		26.5	586.4	117.9	13.5	1.000006
92000.0	16.8	-46.7		25.9	586.3	118.8	14.1	1.000006
92500.0	16.5	-46.7		25.3	586.2	119.0	14.6	1.000006
93000.0	16.1	-46.8		24.8	586.1	119.1	15.0	1.000006

UPPER AIR DATA
 1530020441
 WHITE SANDS
 TABLE XI. (CONT)

STATION ALTITUDE 3980.00 FEET MSL
 2 JUNE 77
 ASCENSION NO. 441

1410 HRS MDT
 15TH SITE COORDINATES
 488500.00 FEET E
 185045.00 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
93500.0	15.7	-46.9		24.7	586.0	119.2	15.5	1.000005
94000.0	15.4	-46.5		23.8	586.5	117.0	15.0	1.000005
94500.0	15.0	-45.5		23.0	587.7	116.6	15.3	1.000005
95000.0	14.7	-44.5		22.4	589.0	115.7	15.2	1.000005
95500.0	14.4	-43.5		21.8	590.7	112.3	15.4	1.000005
96000.0	14.1	-42.6		21.2	591.6	107.8	16.1	1.000005
96500.0	13.7	-41.6		20.7	592.9	103.7	16.8	1.000005
97000.0	13.4	-40.5		20.1	594.1	100.0	17.5	1.000004
97500.0	13.1	-39.5		19.6	595.4	108.3	18.8	1.000004
98000.0	12.9	-38.6		19.1	596.7	117.3	20.5	1.000004
98500.0	12.6	-38.6		18.7	596.8	124.7	22.8	1.000004
99000.0	12.3	-38.0		18.3	596.7	127.1	24.2	1.000004
99500.0	12.0	-36.7		17.9	596.6	112.0	22.1	1.000004
100000.0	11.8	-38.7		17.5	596.5	95.1	21.9	1.000004
100500.0	11.5	-38.6		17.1	596.3	79.1	23.4	1.000004
101000.0	11.3	-38.9		16.8	596.2	75.9	24.3	1.000004
101500.0	11.0	-39.0		16.4	596.1	63.7	23.6	1.000004
102000.0	10.8	-39.1		16.0	596.0	91.9	23.3	1.000004
102500.0	10.5	-39.2		15.7	595.9	100.0	23.5	1.000003
103000.0	10.3	-39.3		15.4	595.8			1.000003
103500.0	10.1	-39.4		15.0	595.7			1.000003
104000.0	9.9	-39.5		14.7	595.5			1.000003
104500.0	9.7	-39.6		14.4	595.4			1.000003
105000.0	9.4	-39.7		14.1	595.3			1.000003
105500.0	9.2	-39.8		13.8	595.1			1.000003
106000.0	9.0	-39.9		13.5	595.0			1.000003

MANDATORY LEVELS
1530020441
WHITE SANDS
TABLE XII.

STATION ALTITUDE 3969.00 FEET MSL
2 JUNE 77
ASCENSION NO. 441

KSTM SITE COORDINATES
488587.00 FEET E
185045.00 FEET N

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS
857.0	4041.	28.6	7.7	19.	180.6	3.8
800.0	6090.	27.8	1.0	25.	162.8	0.2
757.0	6521.	18.6	-7	27.	161.8	8.0
700.0	10443.	17.1	-3.0	32.	160.4	7.1
650.0	12463.	6.9	-5.1	42.	162.4	5.5
600.0	14599.	0	-7.1	55.	166.7	5.6
550.0	16071.	-4.4	-17.7	35.	154.7	5.7
500.0	18020.	-10.4	-18.7	52.	107.2	0.1
450.0	21080.	-13.4	-27.4	30.	148.4	7.6
400.0	24861.	-20.1	-35.4	24.	160.4	8.1
350.0	28059.	-27.9	-39.3	32.	200.1	3.4
300.0	31625.	-37.2	-48.0	28.	169.5	0.2
250.0	35683.	-45.9			178.6	29.0
200.0	40474.	-52.6			274.0	21.0
175.0	43286.	-54.0			270.1	23.1
150.0	46498.	-59.0			268.1	25.6
125.0	50192.	-65.0			264.3	27.4
100.0	54573.	-71.5			251.4	17.7
80.0	58916.	-69.8			235.9	5.9
70.0	61536.	-66.9			151.8	4.2
60.0	64652.	-67.1			125.5	9.7
50.0	68407.	-56.2			53.8	6.9
40.0	73050.	-57.0			111.2	3.2
30.0	78085.	-51.0			95.6	13.0
25.0	82956.	-49.8			93.5	22.6
20.0	87834.	-46.7			141.6	7.0
15.0	94100.	-45.4			116.5	15.3
10.0	103191.	-39.4				

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