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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 148198 LANCE, Missile Number 4571, Round Number 357-APT presented in tabular form.		

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INTRODUCTION

14819B LANCE, Missile Number 4571, Round Number 357 APT
was launched from LC-39, White Sands Missile Range (WSMR), New
Mexico, at 1417 MDT on 01 October 1980. The scheduled launch time
was 1415 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC-39 met site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

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

SITE AND ALTITUDE

LC-39 3000 Meters

(b) Air structure data (rawinsonde) were collected at the following met sites. Data were collected from surface to as high as possible in 500-foot increments.

SITE AND TIME

WSD 1515 MDT
HMN 1245 MDT
SW-70 1405 MDT

TABLE 1. Surface Observations taken at 1415 MDT,
 1 October 1980, at LC-39, 14819B LANCE,
 Missile Number 4571, Round Number 357-APT.

ELEVATION	4063.75	FT/MSL
PRESSURE	879.1	MBS
TEMPERATURE	30.5	°C
RELATIVE HUMIDITY	24	%
DEW POINT	7.6	°C
DENSITY	1002	GM/M ³
WIND SPEED	02	KTS
WIND DIRECTION	245	DEGREES
CLOUD COVER	CLEAR	

SIGNIFICANT LEVEL DATA
 2750020527
 WHITE SANDS
 GEODLTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

TABLE 4

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
879.1	3039.0	30.5	7.7	24.0
850.0	4008.0	25.5	5.5	24.0
730.2	6730.4	20.6	3.6	33.0
709.8	7063.8	20.5	5.1	32.0
753.0	6911.4	18.0	-7.4	17.0
716.6	9796.3	15.7	-10.0	15.0
700.0	10946.0	14.1	-13.0	14.0
672.2	11565.9	12.7	-15.0	13.0
555.2	16725.1	1.0	-24.3	13.0
500.0	19456.2	-6.2	-29.3	14.0
470.2	21026.6	-9.4	-31.9	14.0
400.0	25063.8	-18.8	-39.5	14.0
373.6	26403.5	-22.0	-42.2	14.0
346.2	28549.1	-26.8	-45.5	15.0
340.6	29006.3	-26.8	-45.5	15.0
300.0	31011.2	-33.6	-50.1	17.0
250.0	36627.5	-44.6		
234.6	37421.6	-47.2		
224.0	38926.3	-48.7		
200.0	40852.0	-53.9		
189.0	42044.7	-55.9		
175.0	43645.5	-57.5		
158.0	46783.3	-65.2		
131.2	49044.0	-67.7		
125.8	50111.7	-71.4		
111.6	52624.5	-73.2		
103.6	54023.1	-73.8		
100.0	54707.5	-73.2		
85.2	57330.4	-69.7		
70.0	61700.0	-68.9		
50.6	66091.0	-60.4		
41.6	72306.0	-57.3		

STATION ALTITUDE 3989.00 FEET MSL
 1 OCT. 1947
 ASCENSION IS. 547

GEOMETRIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

SIGNIFICANT LEVEL DATA
 2750020527
 WHITE SANDS

TABLE 4 (CONT)

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE METERS	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	
46.0	7312.0	-50.0		
32.2	7771.0	-51.7		
30.0	7928.9	-51.7		
26.0	8230.4	-50.4		
21.7	8627.9	-47.4		
20.0	8817.9	-48.8		
14.9	9460.5	-46.2		
13.4	9682.6	-40.4		
10.2	10303.3	-36.9		

GEODETIC COORDINATES
 32.40003 LAT (FG)
 106.37033 LONG (FG)

UPPER AIR DATA
 275002027
 WHITE SAMPLES

TABLE 5

GEOD. HGT. ALTITUDE FSL FEET	PRESSURE MILLIBARS	AIR DEGREES CENTIGRADE	TEMPERATURE DEGREE CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
							DIRECTION DULGLES (TR)	SPEED KNOTS	
36000.0	579.7	30.5	7.7	24.0	1004.0	660.4	350.0	1.9	1.000267
40000.0	676.8	30.4	7.6	24.0	1003.8	660.5	350.1	2.0	1.000267
44000.0	865.8	27.0	5.5	24.0	995.6	677.3	352.9	2.7	1.000260
50000.0	849.0	25.4	3.5	24.2	987.2	674.3	354.5	3.4	1.000253
56000.0	834.5	24.0	3.7	26.7	974.5	672.8	355.5	4.2	1.000251
60000.0	819.9	22.6	3.8	29.3	962.1	671.3	356.2	4.9	1.000249
65000.0	805.7	21.2	3.3	31.8	949.8	669.7	352.0	5.2	1.000247
70000.0	791.6	20.4	3.2	32.2	936.1	668.7	347.7	5.6	1.000242
75000.0	777.7	19.5	3.2	27.2	922.8	667.5	344.2	6.4	1.000233
80000.0	764.1	18.7	3.2	21.6	909.9	666.3	341.2	7.2	1.000223
85000.0	750.6	17.9	-7.6	16.9	897.0	665.2	338.6	7.9	1.000215
90000.0	737.5	17.0	-8.8	16.2	883.8	664.2	335.7	8.6	1.000211
95000.0	724.2	16.2	-10.1	15.4	870.7	663.2	333.0	9.3	1.000207
100000.0	711.4	15.2	-11.5	14.7	858.3	662.0	332.9	10.0	1.000203
105000.0	698.7	14.0	-13.1	14.0	846.5	660.6	333.4	12.8	1.000199
110000.0	686.1	13.4	-13.9	13.5	835.2	659.9	333.4	13.0	1.000195
115000.0	673.8	12.8	-14.9	13.1	824.0	659.1	333.2	14.7	1.000192
120000.0	661.5	11.7	-15.8	13.0	808.1	657.9	331.3	14.4	1.000188
125000.0	649.5	10.6	-16.6	13.6	796.5	656.5	328.1	13.5	1.000185
130000.0	637.4	9.4	-17.5	13.0	785.0	655.2	325.1	13.1	1.000182
135000.0	625.7	8.3	-18.4	13.0	773.6	653.9	322.7	13.1	1.000179
140000.0	614.2	7.2	-19.3	13.0	762.7	652.5	320.6	12.6	1.000176
145000.0	602.9	6.0	-20.2	13.0	751.7	651.2	318.3	11.0	1.000173
150000.0	591.9	4.8	-21.2	13.0	741.0	649.9	314.3	10.3	1.000171
155000.0	581.4	3.8	-22.1	13.0	730.4	648.5	308.9	8.7	1.000168
160000.0	570.5	2.6	-23.0	13.0	719.9	647.2	301.4	7.1	1.000165
165000.0	559.9	1.5	-23.9	13.0	709.7	645.8	292.0	5.0	1.000163
170000.0	549.6	0.5	-24.8	13.1	699.6	644.4	282.0	4.6	1.000160
175000.0	538.9	-1.1	-25.7	13.3	689.6	642.8	269.2	3.4	1.000157
180000.0	528.7	-2.4	-26.6	13.5	679.8	641.2	258.9	1.8	1.000155
185000.0	518.7	-3.7	-27.5	13.7	670.2	639.7	189.2	0.6	1.000153
190000.0	508.8	-5.0	-28.4	13.6	660.7	638.1	75.6	1.8	1.000151

UPPER AIR DATA
 2750020527
 WHITE SANDS
 GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

STATION ALTITUDE 5989.00 FEET MSL
 1 OCT. 60
 1515 HRS MDT
 ASCENSION NO. 527

TABLE 5 (CONT)

GEOMETRIC ALTITUDE FSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	RELATIVE HUMIDITY PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
13500.0	499.1	-0.3	14.0	651.3	636.5	25.4	1.3	1.000148
20000.0	489.5	-7.3	14.0	641.2	635.3	317.8	2.7	1.000145
20500.0	480.9	-8.3	14.0	631.2	634.1	281.3	4.8	1.000143
21000.0	470.7	-9.3	14.0	621.4	632.9	255.2	7.9	1.000141
21500.0	461.4	-10.5	14.0	611.8	631.5	256.9	9.4	1.000138
22000.0	452.2	-11.7	14.0	602.3	630.1	250.9	10.8	1.000136
22500.0	443.3	-12.8	14.0	593.0	628.6	247.2	11.3	1.000134
23000.0	434.5	-14.0	14.0	583.9	627.2	241.5	12.0	1.000132
23500.0	425.9	-15.2	14.0	574.9	625.8	232.1	13.3	1.000130
24000.0	417.4	-16.3	14.0	566.1	624.4	227.0	15.3	1.000127
24500.0	409.1	-17.5	14.0	557.4	623.0	225.0	17.9	1.000125
25000.0	401.0	-18.7	14.0	548.8	621.8	227.4	18.8	1.000123
25500.0	392.9	-19.8	14.0	540.3	620.1	231.4	19.1	1.000121
26000.0	384.9	-21.0	14.0	531.8	618.6	232.2	18.1	1.000119
26500.0	377.1	-22.2	14.0	523.4	617.2	232.5	16.7	1.000117
27000.0	369.3	-23.3	14.3	514.9	615.8	241.8	14.3	1.000115
27500.0	361.7	-24.5	14.5	506.6	614.4	254.8	12.6	1.000114
28000.0	354.2	-25.6	14.7	498.4	613.0	270.2	12.9	1.000112
28500.0	346.9	-26.7	15.0	490.3	611.8	282.2	14.1	1.000110
29000.0	339.7	-27.8	15.0	480.3	611.5	289.8	16.0	1.000108
29500.0	332.5	-28.8	15.3	472.4	610.1	294.2	18.4	1.000106
30000.0	325.3	-29.1	15.7	464.6	608.6	296.7	21.0	1.000104
30500.0	318.0	-30.3	16.0	457.0	607.1	297.3	22.8	1.000102
31000.0	311.4	-31.5	16.4	449.5	605.7	296.6	24.0	1.000101
31500.0	305.3	-32.6	16.7	442.2	604.2	298.8	25.2	1.000099
32000.0	298.6	-33.8	16.6**	435.0	602.7	301.8	26.3	1.000097
32500.0	292.3	-35.2	14.6**	427.8	601.0	305.0	27.6	1.000096
33000.0	285.9	-36.5	12.5**	420.8	599.3	307.9	28.8	1.000094
33500.0	279.6	-37.8	10.4**	414.0	597.6	311.0	30.0	1.000092
34000.0	273.3	-39.2	8.4**	407.2	595.9	313.7	31.1	1.000091
34500.0	267.5	-40.5	6.3**	400.6	594.2	315.7	30.8	1.000089
35000.0	261.6	-41.9	4.2**	394.1	592.5	315.8	30.4	1.000088

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

UPPER AIR DATA
 2750020527
 WHITE SANDS

GEODETIC COORDINATES
 32.40093 LAT 116
 106.37033 LONG 116

TABLE 5

STATION ALTITUDE 5989.00 FEET MSL
 1 OCT. 1966
 1515 HRS MDT
 OBSERVATION NO. 527

GEOMETRIC ALTITUDE FSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TR)	SPEED KNOTS	INDEX OF REFRACTION
5000.0	879.1	30.5	24.0	1004.0	680.4	350.0	1.9	1.000267
4000.0	876.8	30.4	24.0	1003.8	680.3	350.1	2.0	1.000267
4000.0	863.8	27.0	24.0	995.6	677.3	352.9	2.7	1.000260
3000.0	869.0	25.4	24.2	997.2	674.3	354.5	3.4	1.000253
2500.0	854.5	24.0	26.7	974.5	672.8	355.5	4.2	1.000251
2000.0	819.9	22.6	29.3	962.1	671.3	356.2	4.9	1.000249
1500.0	805.7	21.2	31.6	949.8	669.7	352.0	5.2	1.000247
7000.0	791.6	20.4	32.2	936.1	668.7	347.7	5.6	1.000242
7500.0	777.7	19.6	27.2	922.8	667.5	344.2	6.4	1.000233
3000.0	764.1	18.7	21.6	909.9	666.3	341.2	7.2	1.000223
6500.0	750.6	17.9	16.9	897.0	665.2	338.6	7.9	1.000215
9000.0	737.3	17.0	16.2	883.8	664.2	335.7	8.6	1.000211
9500.0	724.2	16.2	15.4	870.7	663.2	333.0	9.3	1.000207
10000.0	711.4	15.2	14.7	858.3	662.0	332.9	10.9	1.000203
10000.0	696.7	14.0	14.0	846.5	660.9	333.4	12.8	1.000199
11000.0	686.1	13.9	13.5	833.2	659.9	333.4	13.9	1.000195
11500.0	675.8	12.8	13.1	820.0	659.1	333.2	14.7	1.000192
12000.0	661.5	11.7	13.0	808.1	657.9	331.3	14.4	1.000188
12500.0	649.5	10.6	13.0	796.5	656.5	328.1	13.5	1.000185
13000.0	637.4	9.4	13.0	785.0	655.2	325.1	13.1	1.000182
13500.0	625.7	9.3	13.0	773.8	653.9	322.7	13.1	1.000179
14000.0	614.2	7.2	13.0	762.7	652.5	320.6	12.6	1.000176
14500.0	602.9	6.0	13.0	751.7	651.2	318.5	11.9	1.000173
15000.0	591.9	4.9	13.0	741.0	649.9	314.3	10.3	1.000171
16000.0	570.5	2.6	13.0	730.4	648.5	308.9	8.7	1.000168
16500.0	559.9	1.5	13.0	719.9	647.2	301.4	7.1	1.000165
16900.0	549.0	.3	13.1	709.7	645.8	292.0	5.9	1.000163
17500.0	538.9	-1.0	13.3	699.6	644.4	282.0	4.8	1.000160
18000.0	529.7	-2.4	13.5	689.6	642.8	269.2	3.4	1.000157
18500.0	518.7	-3.7	13.7	679.6	641.2	256.9	1.8	1.000155
19000.0	508.8	-5.0	13.8	670.2	639.7	169.2	.6	1.000153
19000.0	508.8	-5.0	13.8	660.7	638.1	75.6	1.8	1.000150

UPPER AIR DATA
 2750020527
 WHITE SANDS
 TABLE 5 (CONT)

STATION ALTITUDE 3989.00 FEET MSL
 1 OCT. 48
 1515 HRS MDT
 ASCENSION NO. 527

GEOMETRIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KILOTS	DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
13500.0	499.1	-6.3	14.0	651.3	636.5	23.4	1.5	1.000148
20000.0	489.5	-7.3	14.0	641.2	635.3	317.0	2.7	1.000145
20500.0	480.9	-8.3	14.0	631.2	634.1	281.3	4.8	1.000143
21000.0	470.7	-9.3	14.0	621.4	632.9	265.2	7.9	1.000141
21500.0	461.4	-10.5	14.0	611.8	631.5	256.9	9.4	1.000138
22000.0	452.2	-11.7	14.0	602.3	630.1	250.9	10.8	1.000136
22500.0	443.3	-12.8	14.0	593.0	628.6	247.2	11.3	1.000134
23000.0	434.5	-14.0	14.0	583.9	627.2	241.5	12.0	1.000132
23500.0	425.9	-15.2	14.0	574.9	625.8	232.1	13.3	1.000130
24000.0	417.4	-16.3	14.0	566.1	624.4	227.0	15.3	1.000127
24500.0	409.1	-17.5	14.0	557.4	623.0	225.0	17.9	1.000125
25000.0	401.0	-18.7	14.0	548.8	621.6	227.4	18.8	1.000123
25500.0	392.9	-19.8	14.0	540.3	620.1	231.4	19.1	1.000121
26000.0	384.9	-21.0	14.0	531.8	618.6	232.2	18.1	1.000119
26500.0	377.1	-22.2	14.0	523.4	617.2	232.5	16.7	1.000117
27000.0	369.3	-23.3	14.3	514.9	615.8	241.8	14.3	1.000115
27500.0	361.7	-24.5	14.5	506.6	614.4	254.8	12.6	1.000114
28000.0	354.2	-25.6	14.7	498.4	613.0	270.2	12.9	1.000112
28500.0	346.9	-26.7	15.0	490.3	611.6	282.2	14.1	1.000110
29000.0	339.7	-26.8	15.0	480.3	611.5	289.0	16.0	1.000108
29500.0	332.5	-28.0	15.3	472.4	610.1	294.2	18.4	1.000106
30000.0	325.5	-29.1	15.7	464.6	608.6	296.7	21.0	1.000104
30500.0	318.6	-30.3	16.0	457.0	607.1	297.3	22.8	1.000102
31000.0	311.9	-31.5	16.4	449.5	605.7	296.6	24.0	1.000101
31500.0	305.5	-32.6	16.7	442.2	604.2	298.8	25.2	1.000099
32000.0	298.6	-33.8	16.6**	435.0	602.7	301.0	26.3	1.000097
32500.0	292.3	-35.2	16.0**	427.8	601.1	303.0	27.6	1.000096
33000.0	285.9	-36.5	12.5**	420.8	599.3	307.9	28.8	1.000094
33500.0	279.6	-37.8	10.4**	414.0	597.6	311.0	30.0	1.000092
34000.0	273.5	-39.2	8.4**	407.2	595.9	313.7	31.1	1.000091
34500.0	267.5	-40.5	6.3**	400.6	594.2	315.7	30.8	1.000089
35000.0	261.6	-41.9	4.2**	394.1	592.5	313.0	30.4	1.000088

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

GEOMETRIC COORDINATES
 32.40043 LAT (EG
 106.57033 LOH (EG

REFER AIR DATA
 2750620527
 WPLLE SAMPLES

STATION ALTITUDE 3980.00 FEET ASL
 1 OCT. 60
 1515 HRS MDT
 ASCENSION NO. 527

TABLE 5 (CONT)

GEOMETRIC ALTITUDE FSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC CM	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
35000.0	255.0	-43.2	2.2**	387.7	590.8	312.9	29.5	1.000086
36000.0	250.5	-44.5	.1**	381.4	589.1	312.3	29.0	1.000085
36500.0	244.7	-45.5		374.4	587.8	312.2	30.4	1.000083
37000.0	239.2	-46.4		367.4	586.6	311.6	31.9	1.000082
37500.0	233.8	-47.3		360.6	585.4	311.2	33.8	1.000080
38000.0	228.4	-48.1		353.6	584.5	311.4	35.4	1.000079
38500.0	223.2	-48.9		346.7	583.4	312.2	36.9	1.000077
39000.0	218.1	-49.8		340.3	582.1	312.7	38.3	1.000076
39500.0	213.0	-51.0		334.1	580.7	312.9	39.5	1.000074
40000.0	208.1	-52.1		328.0	579.3	312.8	40.3	1.000073
40500.0	203.3	-53.1		321.9	577.8	312.4	40.6	1.000072
41000.0	198.6	-54.1		315.9	576.5	312.4	40.8	1.000070
41500.0	193.9	-55.0		309.7	575.4	313.2	40.9	1.000069
42000.0	189.4	-55.8		303.6	574.3	314.1	41.4	1.000068
42500.0	184.9	-56.4		297.9	572.9	315.2	42.5	1.000066
43000.0	180.5	-57.0		292.4	571.4	316.2	43.6	1.000065
43500.0	176.2	-57.2		286.9	569.9	316.7	44.4	1.000064
44000.0	172.0	-57.1		281.5	568.6	317.2	45.3	1.000063
44500.0	167.8	-61.1		275.6	567.4	318.8	42.9	1.000061
45000.0	163.7	-62.8		270.1	566.2	320.5	40.6	1.000060
45500.0	159.4	-62.9		264.7	564.9	322.0	39.9	1.000059
46000.0	155.3	-63.4		259.4	563.7	323.5	39.5	1.000058
46500.0	152.1	-63.7		254.2	562.5	323.2	39.2	1.000057
47000.0	148.4	-63.6		249.0	561.3	321.6	38.0	1.000055
47500.0	144.7	-63.4		243.8	560.2	319.8	38.0	1.000054
48000.0	141.1	-67.3		238.7	559.0	317.7	36.5	1.000053
48500.0	137.6	-68.1		233.7	557.9	317.2	35.7	1.000052
49000.0	134.2	-68.9		228.9	556.7	319.2	35.8	1.000051
49500.0	130.8	-69.8		224.2	555.5	320.9	35.6	1.000050
50000.0	127.5	-71.1		219.9	553.7	321.0	33.3	1.000049
50500.0	124.3	-71.7		214.9	553.0	321.1	31.0	1.000048
51000.0	121.1	-72.8		209.8	552.3	320.1	29.5	1.000047

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

UPPER AIR DATA
 2750020527
 WHITE SANDS

STATION ALTITUDE 5939.00 FT. MSL
 1 OCT. 60
 ASCENSION NO. 527

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

TABLE 5 (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	
51500.0	118.0	-72.4		204.8	552.0	313.6	26.0	1.000046
52000.0	115.0	-72.8		200.0	551.5	318.0	24.5	1.000045
52500.0	112.1	-73.1		195.2	551.0	318.5	24.0	1.000043
53000.0	109.3	-73.4		190.5	550.7	319.1	23.1	1.000042
53500.0	106.5	-73.6		185.8	550.4	320.4	20.0	1.000041
54000.0	103.7	-73.8		181.3	550.1	322.2	16.9	1.000040
54500.0	101.1	-73.4		176.3	550.6	322.9	16.3	1.000039
55000.0	98.5	-72.9		171.3	551.3	323.1	16.6	1.000038
55500.0	96.0	-72.3		166.5	552.1	323.1	16.8	1.000037
56000.0	93.5	-71.8		161.9	552.9	322.9	16.6	1.000036
56500.0	91.2	-71.2		157.3	553.6	322.7	16.5	1.000035
57000.0	88.9	-70.6		152.9	554.4	323.8	15.1	1.000034
57500.0	86.7	-70.1		148.7	555.2	325.6	13.3	1.000033
58000.0	84.5	-69.7		144.6	555.7	327.6	11.8	1.000032
58500.0	82.4	-69.6		140.9	555.9	327.0	12.1	1.000031
59000.0	80.3	-69.5		137.3	556.0	326.4	12.5	1.000031
59500.0	78.3	-69.4		133.8	556.2	325.0	12.3	1.000030
60000.0	76.3	-69.3		130.4	556.5	322.6	11.5	1.000029
60500.0	74.4	-69.1		127.1	556.4	319.9	10.8	1.000028
61000.0	72.5	-69.0		123.8	556.6	320.5	9.9	1.000028
61500.0	70.7	-68.9		120.7	556.7	321.8	8.9	1.000027
62000.0	69.0	-68.8		117.4	557.3	323.7	7.7	1.000026
62500.0	67.3	-67.9		114.2	558.1	327.7	6.0	1.000025
63000.0	65.6	-67.3		111.1	559.0	335.0	4.3	1.000025
63500.0	64.0	-66.7		108.0	559.8	337.9	3.9	1.000024
64000.0	62.5	-66.0		105.1	560.7	338.8	4.1	1.000023
64500.0	60.9	-65.4		102.2	561.5	335.7	4.3	1.000023
65000.0	59.4	-64.8		99.4	562.4	332.7	4.8	1.000022
65500.0	58.0	-64.1		96.7	563.2	330.5	5.4	1.000022
66000.0	56.6	-63.5		94.0	564.1	334.6	5.9	1.000021
66500.0	55.2	-62.9		91.4	564.9	340.1	6.5	1.000020
67000.0	53.8	-62.3		88.9	565.7	355.5	7.4	1.000020

UPPER AIR DATA
 2750020527
 WHITE SANDS

STATION ALTITUDE 3930.00 FEET AMSL
 1001.00
 1515 HRS MDT
 ASCENSION NO. 527

STATION ALTITUDE 3930.00 FEET AMSL
 1001.00
 1515 HRS MDT
 ASCENSION NO. 527

STODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE FT	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	HUMIDITY PERCENT	DENSITY GRAMS PER CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
67500.0	52.5	-61.0		80.5	566.6	0.4	8.4	1.000019
66000.0	51.2	-61.0		84.1	567.4	16.1	9.5	1.000019
64500.0	50.3	-60.4		81.8	568.2	22.4	10.9	1.000018
63000.0	49.8	-60.0		79.7	568.8	22.1	12.5	1.000018
61500.0	47.6	-59.6		77.7	569.3	21.9	14.0	1.000017
60000.0	46.5	-59.2		75.7	569.9	23.5	14.7	1.000017
58500.0	45.9	-58.8		73.7	570.4	27.3	14.4	1.000016
57000.0	44.5	-58.4		71.9	571.0	31.3	14.2	1.000016
55500.0	43.2	-58.0		70.0	571.5	38.0	12.5	1.000016
54000.0	41.2	-57.5		68.2	572.0	51.1	10.4	1.000015
52500.0	40.2	-57.4		66.6	572.1	68.0	9.0	1.000015
51000.0	39.3	-57.5		65.1	571.6	83.3	8.6	1.000014
49500.0	38.9	-56.8		63.5	572.1	95.3	8.7	1.000014
48000.0	37.5	-56.1		61.6	573.0	106.0	9.2	1.000014
46500.0	36.6	-55.6		59.2	573.9	114.0	9.7	1.000013
45000.0	35.7	-54.7		58.6	574.6	121.5	10.4	1.000013
43500.0	34.9	-54.1		57.0	575.8	127.0	11.1	1.000013
42000.0	34.1	-53.4		55.5	576.7	134.0	10.2	1.000012
40500.0	33.3	-52.7		54.0	577.6	147.1	8.5	1.000012
39000.0	32.5	-52.0		52.6	578.5	164.4	7.4	1.000012
37500.0	31.3	-51.7		51.2	579.4	180.1	6.5	1.000011
36000.0	31.3	-51.7		50.0	579.7	196.4	5.6	1.000011
34500.0	30.3	-51.7		48.8	579.7	216.4	5.3	1.000011
33000.0	29.9	-51.6		47.7	579.9	222.3	4.9	1.000011
31500.0	28.9	-51.4		46.6	579.9	214.0	3.9	1.000010
30000.0	28.3	-51.2		45.5	580.2	200.8	3.1	1.000010
28500.0	27.6	-51.0		44.4	580.4	186.3	2.9	1.000010
27000.0	27.0	-50.7		43.3	580.7	179.3	3.4	1.000010
25500.0	26.1	-50.5		42.3	581.0	174.1	4.0	1.000009
24000.0	25.8	-50.3		41.3	581.3	170.7	4.3	1.000009
22500.0	25.8	-49.9		40.3	581.9	164.6	4.2	1.000009
21000.0	25.2	-49.9		39.3	582.1	153.5	4.4	1.000009

UPPER AIR DATA
 2750020527
 WHITE SANDS

STATION ALTITUDE 3339.00 FEET MSL
 1 OCT. 43
 1515 HRS MDT
 ASCENSION NO. 527

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 5 (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 (TH)	SPEED KNOTS	
33500.0	24.6	-43.5		38.3	582.6	167.2	3.9	1.000009
34000.0	24.1	-43.1		37.4	583.1	170.7	3.4	1.000008
34500.0	23.5	-43.7		36.5	583.6	175.0	2.9	1.000008
35000.0	22.9	-43.3		35.6	584.1	182.4	2.4	1.000008
35500.0	22.4	-43.0		34.7	584.6	191.8	1.6	1.000008
36000.0	21.9	-47.6		33.9	585.1	220.8	.8	1.000008
36500.0	21.4	-47.6		33.1	585.1	295.0	.8	1.000007
37000.0	21.0	-48.0		32.4	584.6	329.5	1.1	1.000007
37500.0	20.5	-48.4		31.7	584.1	354.7	1.3	1.000007
38000.0	20.0	-48.3		31.1	583.5	10.7	1.7	1.000007
38500.0	19.6	-48.6		30.4	583.8	20.9	2.3	1.000007
39000.0	19.1	-48.4		29.6	584.0	26.6	3.4	1.000007
39500.0	18.7	-48.2		28.9	584.3	29.6	4.5	1.000006
40000.0	18.3	-48.0		28.3	584.6	31.4	5.5	1.000006
40500.0	17.9	-47.8		27.6	584.8	32.3	5.5	1.000006
41000.0	17.5	-47.6		27.0	585.1	33.3	5.5	1.000006
41500.0	17.1	-47.4		26.3	585.3	34.3	5.5	1.000006
42000.0	16.7	-47.2		25.7	585.6	22.5	4.5	1.000006
42500.0	16.3	-47.0		25.1	585.9	1.6	3.0	1.000006
43000.0	15.9	-46.8		24.5	586.1	33.4	3.7	1.000005
43500.0	15.6	-46.6		23.9	586.4	319.1	4.0	1.000005
44000.0	15.2	-46.4		23.4	586.7	307.6	4.3	1.000005
44500.0	14.9	-46.1		22.8	587.0	297.9	4.7	1.000005
45000.0	14.5	-45.9		22.2	588.6	283.6	5.1	1.000005
45500.0	14.2	-45.7		21.6	590.2	253.6	5.8	1.000005
46000.0	13.9	-42.4		21.0	591.8	241.5	7.3	1.000005
46500.0	13.6	-41.2		20.4	593.3	230.7	9.2	1.000005
47000.0	13.3	-40.3		19.9	594.5	231.6	10.5	1.000004
47500.0	13.0	-40.0		19.4	594.8	232.4	11.8	1.000004
48000.0	12.7	-39.7		19.0	595.2	233.0	13.1	1.000004
48500.0	12.5	-39.5		18.6	595.5	233.4	14.4	1.000004
49000.0	12.2	-39.2		18.1	595.9			1.000004

STATION ALTITUDE 5900.00 FT I MSL
 1001.00
 ASCENSION NO. 527

UPPER AIR DATA
 2750020527
 WHITE SANDS

1515 HRS MDT

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE FSL FT	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TI)	SPEED KNOTS	INDEX OF REFRACTION.
5900.0	11.0	-50.0		17.7	590.3			1.000004
10000.0	11.7	-38.6		17.3	596.6			1.000004
10050.0	11.6	-38.3		16.9	597.0			1.000004
10100.0	11.2	-38.0		16.5	597.3			1.000004
10150.0	10.9	-37.8		16.2	597.7			1.000004
10200.0	10.7	-37.5		15.8	598.1			1.000004
10250.0	10.4	-37.2		15.4	598.4			1.000003
10300.0	10.2	-36.9		15.1	598.8			1.000003

STATION ALTITUDE 3989.00 FEET MSL
 I. C. NO. 1515 HRS MDT
 ASCENDING NO. 527

MANDATORY LEVELS
 275020527
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37035 LONG DEG

TABLE 6

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DATA	
				DIRECTION DEGREES(TN)	SPEED KNOTS
350.0	4364.	25.5	24.	354.4	5.4
300.0	6097.	20.7	33.	350.3	5.3
750.0	8516.	17.8	17.	338.5	8.0
700.0	10437.	14.1	14.	333.4	12.6
650.0	12474.	10.6	13.	328.2	13.6
600.0	14040.	5.7	13.	317.2	11.4
550.0	16951.	.4	13.	202.8	4.9
500.0	19427.	-6.2	14.	34.2	1.4
450.0	22103.	-12.0	14.	250.0	10.9
400.0	25021.	-18.0	14.	227.8	18.8
350.0	28237.	-26.2	14.	278.2	13.4
300.0	31807.	-33.6	15.	301.2	26.1
250.0	35948.	-44.6	17.	312.3	29.0
200.0	40753.	-53.9		312.2	40.8
175.0	43533.	-59.5		316.8	44.6
150.0	46655.	-65.2		322.5	39.0
125.0	50244.	-71.6		321.1	31.6
100.0	54537.	-75.2		323.0	18.4
80.0	58074.	-84.4		326.5	12.5
70.0	61401.	-88.0		322.2	8.6
60.0	64546.	-65.0		334.1	4.5
50.0	68233.	-60.4		22.4	10.8
40.0	72335.	-58.0		89.4	8.6
30.0	78200.	-51.7		219.0	4.5
25.0	82795.	-43.7		168.0	4.0
20.0	87604.	-48.8		10.0	1.7
15.0	93042.	-46.3		302.3	4.5

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

STATION ALTITUDE 4126.59 FEET 1550
 1 OCT. 67
 ACQUISITION NO. 302

SIGHT LIGHT LEVEL DATA
 275010502
 HOLLOWAY

GEODETIC COORDINATES
 32.88865 LAT DEG
 106.09965 LONG DEG

TABLE 7

PRECIPITATION MILLIBARS	GEOMETRIC ALTITUDE FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
377.8	4126.6	27.0	36.0
467.6	4064.6	25.0	34.0
350.0	3053.4	23.3	37.0
531.8	5872.3	22.0	41.0
821.0	6016.6	20.7	40.0
802.4	6693.3	19.9	23.0
744.4	6805.0	17.6	17.0
700.0	10517.0	19.0	17.0
652.4	12450.7	11.1	14.0
597.0	16242.7	2.7	13.0
500.0	19534.4	-5.7	16.0
449.6	22240.8	-12.0	16.0
430.0	25143.7	-13.0	17.0
359.8	27702.6	-25.3	17.0
338.0	29072.5	-28.7	17.0
300.0	31273.4	-34.1	17.0
250.0	36080.1	-40.5	17.0
200.0	40011.4	-53.8	17.0
178.6	43279.3	-50.0	17.0
150.0	46834.8	-65.5	17.0
128.4	49312.1	-71.2	17.0
100.0	54755.1	-74.1	17.0
85.6	57773.1	-70.6	17.0
79.0	61738.8	-68.0	17.0
50.0	68527.5	-61.2	17.0
30.0	73213.6	-52.8	17.0

UPPER AIR DATA
 2730010362
 HOLLORIAN

STATION ALTITUDE 4126.59 FEET MSL
 1001.67
 1515 HRS MDT
 ASCENSION NO. 302

GEODETIC COORDINATES
 32.88865 LAT LEG
 106.09965 LONG LEG

TABLE 8

GEOMETRIC ALTITUDE 500 FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KILOMETERS	DIRECTION DEGREES (TN)	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE					SPEED KNOTS	INDEX OF REFRACTION	
4120.0	877.8	27.0	10.7	36.0	1013.2	676.6	270.0	4.1	1.000280	
4500.0	866.5	24.9	8.0	34.2	1003.1	674.2	282.1	3.8	1.000271	
5000.0	851.6	23.5	7.3	36.7	995.5	672.5	300.4	3.6	1.000268	
5500.0	836.3	22.4	6.1	39.9	981.7	671.3	318.2	3.9	1.000266	
6000.0	822.3	20.8	6.7	40.0	970.2	669.4	333.6	4.6	1.000259	
6500.0	807.9	20.1	1.0	27.9	956.7	668.2	346.5	6.2	1.000242	
7000.0	793.7	19.6	-2.6	22.1	942.3	667.3	353.4	8.1	1.000232	
7500.0	779.7	19.0	-4.0	20.7	927.6	666.6	356.6	10.7	1.000227	
8000.0	766.0	18.5	-5.3	19.3	913.2	666.0	358.4	13.1	1.000222	
8500.0	752.5	17.9	-6.8	17.9	898.9	665.3	358.7	14.9	1.000217	
9000.0	739.2	17.2	-8.0	17.0	885.4	664.4	359.1	15.8	1.000212	
9500.0	726.1	16.1	-8.9	17.0	872.9	663.2	359.7	14.3	1.000209	
10000.0	713.1	15.1	-9.7	17.0	860.6	661.9	3.0	12.2	1.000205	
10500.0	700.0	14.0	-10.6	17.0	848.4	660.7	12.8	9.4	1.000202	
11000.0	687.8	13.3	-11.8	16.3	835.4	659.8	14.1	8.2	1.000198	
11500.0	675.5	12.5	-13.0	15.5	822.6	658.9	5.9	8.1	1.000194	
12000.0	663.3	11.8	-14.2	14.7	810.0	658.0	350.3	8.9	1.000190	
12500.0	651.4	11.0	-15.4	14.0	797.7	657.1	336.9	10.7	1.000186	
13000.0	639.4	9.9	-16.4	13.9	786.2	655.7	328.7	11.1	1.000183	
13500.0	627.7	8.8	-17.4	13.7	774.8	654.4	321.4	11.3	1.000180	
14000.0	616.1	7.7	-18.4	13.6	763.7	653.1	318.0	11.0	1.000177	
14500.0	604.8	6.6	-19.4	13.5	752.6	651.8	315.0	10.7	1.000174	
15000.0	593.7	5.5	-20.4	13.3	741.6	650.5	311.2	8.5	1.000171	
15500.0	582.8	4.3	-21.4	13.2	731.1	649.2	304.2	6.0	1.000168	
16000.0	572.1	3.2	-22.4	13.1	720.6	647.9	292.4	4.4	1.000166	
16500.0	561.5	2.0	-23.2	13.2	710.3	646.5	271.8	3.2	1.000163	
17000.0	550.8	.8	-23.9	13.7	700.1	645.0	307.3	2.3	1.000160	
17500.0	540.4	-.5	-24.6	14.1	690.1	643.5	349.8	2.6	1.000158	
18000.0	530.2	-1.8	-25.2	14.6	680.2	641.9	9.8	3.8	1.000156	
18500.0	520.2	-3.1	-25.9	15.1	670.5	640.4	17.4	5.2	1.000153	
19000.0	510.3	-4.3	-26.7	15.5	661.0	638.9	3.5	5.7	1.000151	
19500.0	500.7	-5.6	-27.4	16.0	651.6	637.4	352.4	6.6	1.000149	

STATION ALTITUDE 9126.59 FEET ASL
 1 OCT. 63
 1515 HRS MDT
 ABSOLUTE HUM. NO. 502

WINDY AIR DATA
 2750019302
 HULLORAD

GEODETIC COORDINATES
 32.84865 LAT NEG
 106.09965 LONG NEG

TABLE 8 (CONT)

GEODETIC ALTITUDE FSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GRAMS PER CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TQ)	SPEED KNOTS	INDEX OF REFRACTION
20000.0	430.7	-5.4	16.0	041.8	636.0	328.1	7.5	1.000146
20500.0	431.4	-7.9	16.0	632.1	634.6	310.3	9.1	1.000144
21000.0	472.0	-9.1	16.0	622.0	633.2	267.4	9.6	1.000141
21500.0	462.9	-10.3	16.0	613.2	631.8	270.0	11.0	1.000139
22000.0	453.9	-11.4	16.0	603.9	630.3	257.5	11.3	1.000137
22500.0	444.9	-12.6	16.1	594.0	628.9	247.1	11.9	1.000135
23000.0	435.1	-13.8	16.3	585.0	627.4	242.5	11.2	1.000132
23500.0	427.4	-15.0	16.4	576.6	626.0	236.8	10.6	1.000130
24000.0	418.9	-16.2	16.6	567.8	624.5	230.3	10.2	1.000128
24500.0	410.5	-17.4	16.8	559.1	623.0	223.4	10.0	1.000126
25000.0	402.3	-18.7	17.0	550.6	621.6	215.0	11.6	1.000124
25500.0	394.2	-19.9	17.0	542.0	620.1	203.6	13.4	1.000122
26000.0	386.1	-21.1	17.0	533.5	618.5	200.5	14.6	1.000120
26500.0	378.2	-22.3	17.0	525.2	617.0	203.0	15.8	1.000118
27000.0	370.5	-23.5	17.0	517.0	615.5	211.9	16.3	1.000116
27500.0	362.9	-24.8	17.0	508.9	614.0	219.9	16.9	1.000114
28000.0	355.4	-26.0	17.0	500.6	612.7	229.7	16.2	1.000112
28500.0	348.1	-27.3	17.0	492.1	611.5	241.1	15.7	1.000110
29000.0	340.7	-28.6	17.0	483.7	610.3	257.2	15.1	1.000108
29500.0	333.6	-29.9	17.0	475.5	609.1	270.7	15.5	1.000107
30000.0	326.5	-31.2	17.0	467.5	607.7	290.1	17.1	1.000105
30500.0	319.0	-32.5	17.0	459.6	606.4	290.7	19.0	1.000103
31000.0	312.3	-33.8	17.0	451.9	605.0	301.0	21.0	1.000101
31500.0	305.2	-35.1	17.0	444.3	603.7	303.4	23.0	1.000099
32000.0	299.7	-36.2	16.9**	436.6	602.3	304.9	25.0	1.000098
32500.0	293.1	-37.5	16.8**	429.5	600.7	306.2	27.0	1.000096
33000.0	286.7	-38.7	12.6**	422.3	599.1	307.5	28.9	1.000094
33500.0	280.4	-39.8	10.7**	415.3	597.5	307.8	29.2	1.000093
34000.0	274.2	-40.9	8.9**	408.4	595.9	308.5	29.2	1.000091
34500.0	268.2	-42.0	6.8**	401.6	594.2	309.6	30.2	1.000090
35000.0	262.4	-43.1	4.5**	395.0	592.5	308.9	31.5	1.000088
35500.0	256.6	-44.3	2.4**	388.4	591.0	309.2	32.7	1.000087

** AT LEAST ONE SAMPLE BELOW THE MINIMUM VALUE WAS USED TO DERIVE INTERPOLATED VALUE.

UPPER AIR DATA
 2750010362
 HOLLOWAY

STATION ALTITUDE 1126.59 FEET MSL
 1 OCT. 63
 1515 HRS MDT
 ASLUSION 00. 302

GEODETIC COORDINATES
 32.88865 LAT DEG
 106.09965 LONG DEG

TABLE 8 (CONT)

GEOMETRIC ALTITUDE FSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
36000.0	251.0	-44.3	44.7	382.0	569.4	309.0	33.8	1.000085
36500.0	245.5	-45.3		375.0	588.1	310.1	34.0	1.000084
37000.0	239.7	-46.3		360.0	586.8	310.6	35.4	1.000082
37500.0	234.2	-47.2		361.1	585.6	311.2	36.0	1.000080
38000.0	228.8	-48.2		354.4	584.3	311.3	36.7	1.000079
38500.0	223.6	-49.2		347.7	583.1	311.0	37.5	1.000077
39000.0	218.5	-50.1		341.3	581.8	310.4	38.4	1.000076
39500.0	213.5	-51.1		334.9	580.6	309.3	39.5	1.000075
40000.0	208.6	-52.0		328.7	579.3	308.2	40.7	1.000073
40500.0	203.8	-53.0		322.6	578.0	308.0	41.0	1.000072
41000.0	199.2	-54.0		316.6	576.7	307.9	41.3	1.000071
41500.0	194.5	-55.1		310.7	575.3	309.0	41.4	1.000069
42000.0	189.9	-56.2		304.9	573.8	310.8	41.4	1.000068
42500.0	185.4	-57.3		299.2	572.4	312.6	41.4	1.000067
43000.0	181.0	-58.4		293.6	570.9	314.5	41.6	1.000065
43500.0	176.7	-59.4		287.9	569.6	316.6	42.0	1.000064
44000.0	172.4	-60.3		282.1	568.4	320.0	43.3	1.000063
44500.0	168.2	-61.2		276.4	567.2	323.1	44.8	1.000062
45000.0	164.1	-62.0		270.9	566.0	324.7	44.0	1.000060
45500.0	160.2	-62.9		265.4	564.9	326.0	42.7	1.000059
46000.0	156.3	-63.8		260.1	563.7	326.5	40.8	1.000058
46500.0	152.5	-64.7		254.8	562.5	325.2	38.0	1.000057
47000.0	148.8	-65.6		249.7	561.2	323.8	35.2	1.000056
47500.0	145.0	-66.6		244.6	559.9	323.8	36.3	1.000054
48000.0	141.6	-67.5		239.6	558.6	323.9	37.8	1.000053
48500.0	137.9	-68.5		234.7	557.3	324.2	38.5	1.000052
49000.0	134.5	-69.5		229.9	556.0	323.1	37.6	1.000051
49500.0	131.1	-70.4		225.3	554.7	326.1	36.6	1.000050
50000.0	127.8	-71.3		220.9	553.6	326.0	33.5	1.000049
50500.0	124.6	-71.6		215.2	553.1	327.7	29.3	1.000048
51000.0	121.0	-71.9		210.1	552.7	328.2	26.0	1.000047
51500.0	118.5	-72.2		205.0	552.3	327.5	24.8	1.000046

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

UPPER AIR DATA
 2750000000
 HOLLORAY
 GEODETIC COORDINATES
 32.68865 LAT 166
 106.09965 LONG 165

STATION ALTITUDE 4120.50 FEET 155C
 1 OCT 63
 1515 HRS MDT
 ASSET 510140. 352

TABLE 8 (CONT)

GEOMETRIC ALTITUDE FSL FEET	PRESSURE	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REF. HUM. PERCENT	DENSITY GRAMS PER METER CUBED	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TH)	SPEED KNOTS	INDEX OF REFRACTION
52000.0	115.5	-72.5		200.1	551.9	525.7	23.6	1.000045
52500.0	112.5	-73.7		175.3	551.5	527.1	23.3	1.000043
53000.0	109.5	-75.0		150.6	551.1	527.6	23.2	1.000042
53500.0	106.7	-75.5		126.0	550.7	528.0	21.1	1.000041
54000.0	104.0	-75.6		101.3	550.3	528.4	17.7	1.000040
54500.0	101.5	-75.9		77.2	549.8	528.1	14.5	1.000039
55000.0	99.7	-75.8		53.6	550.0	523.5	12.1	1.000038
55500.0	98.2	-75.2		30.1	550.8	516.3	9.8	1.000037
56000.0	93.8	-72.7		16.3	551.6	519.6	9.5	1.000036
56500.0	91.0	-72.1		158.4	552.4	516.6	9.5	1.000035
57000.0	89.1	-71.5		153.9	553.2	513.7	9.2	1.000034
57500.0	88.3	-70.9		149.5	554.0	522.5	8.7	1.000033
58000.0	84.6	-70.5		145.4	554.7	525.2	8.2	1.000032
58500.0	82.5	-70.1		141.6	555.1	525.1	7.6	1.000032
59000.0	80.9	-69.9		137.8	555.5	525.0	7.1	1.000031
59500.0	78.0	-69.5		134.1	556.0	530.5	7.1	1.000030
60000.0	76.5	-69.1		130.6	556.4	535.8	7.1	1.000029
60500.0	74.5	-68.8		127.1	556.9	541.9	7.9	1.000028
61000.0	72.7	-68.5		123.7	557.5	547.0	9.1	1.000028
61500.0	70.9	-68.2		120.4	557.8	551.8	9.8	1.000027
62000.0	69.1	-67.7		117.2	558.4	.7	8.3	1.000026
62500.0	67.9	-67.2		114.0	559.0	13.2	7.1	1.000025
63000.0	65.8	-66.7		111.0	559.7	16.8	5.0	1.000025
63500.0	64.1	-66.2		108.0	560.4	17.1	2.6	1.000024
64000.0	62.0	-65.7		105.1	561.1	52.4	.6	1.000023
64500.0	61.0	-65.2		102.3	561.7	27.2	2.6	1.000023
65000.0	59.0	-64.7		99.5	562.4	26.6	4.6	1.000023
65500.0	57.1	-64.2		96.9	563.1	25.7	5.2	1.000022
66000.0	55.7	-63.7		94.3	563.8	25.0	5.7	1.000021
66500.0	53.8	-63.2		91.7	564.4	25.3	5.0	1.000020
67000.0	52.0	-62.7		89.3	565.1	27.2	3.6	1.000019
67500.0	52.0	-62.2		86.9	565.8	30.7	3.0	1.000019

STATION ALTITUDE 4126.59 FEET MSL
 1 OCT. 60
 ASPT 5107.10. 302

UPPER AIR DATA
 275061030.2
 KOLLOPANI

GEODETIC COORDINATES
 52.88865 LAT DEG
 106.09965 LONG DEG

TABLE 8 (CONT)

GEOMETRIC ALTITUDE FSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GRAMS PER CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
6000.0	51.5	-61.7		84.6	565.5	342.0	4.2	1.000019
6050.0	50.1	-61.2		82.3	567.1	353.4	6.1	1.000018
6100.0	48.9	-60.8		80.2	567.7	4.7	7.4	1.000018
6150.0	47.7	-60.4		78.2	568.2	3.8	8.6	1.000017
7000.0	46.0	-60.0		76.2	568.7	15.2	9.5	1.000017
7050.0	45.5	-59.7		74.2	569.2	25.0	10.1	1.000017
7100.0	44.4	-59.3		72.4	569.8	33.5	10.9	1.000016
7150.0	43.4	-58.9		70.5	570.3	43.2	10.3	1.000016
7200.0	42.4	-58.5		68.7	570.8	54.1	9.9	1.000015
7250.0	41.4	-58.1		67.0	571.3	63.7	10.0	1.000015
7300.0	40.4	-57.7		65.3	571.9	69.2	10.4	1.000015
7350.0	39.4	-57.3		63.6	572.4	74.2	10.9	1.000014
7400.0	38.5	-56.9		62.0	572.9	73.1	10.7	1.000014
7450.0	37.6	-56.5		60.4	573.4	82.0	10.3	1.000013
7500.0	36.7	-56.1		58.9	573.9	87.5	10.0	1.000013
7550.0	35.8	-55.7		57.4	574.5	99.0	9.8	1.000013
7600.0	35.0	-55.3		56.0	575.0	10.4	10.1	1.000012
7650.0	34.2	-54.9		54.5	575.5	113.9	9.7	1.000012
7700.0	33.4	-54.5		53.2	576.0	127.2	8.9	1.000012
7750.0	32.6	-54.2		51.8	576.5			1.000012
7800.0	31.8	-53.8		50.5	577.0			1.000011
7850.0	31.0	-53.4		49.2	577.5			1.000011
7900.0	30.3	-53.0		48.0	578.1			1.000011

STATION ALTITUDE 9120.59 FEET ASL
 1 OCT. 66
 1515 HRS MDT
 ASCE. STOR. NO. 362

TEMPERATURE LEVELS
 270003500
 WOLLOMAN

GEODETIC COORDINATES
 32.88805 LAT DEG
 106.09965 LONG DEG

TABLE 9

PRESSURE GEOGRAPHICAL		TEMPERATURE		REL. HUMID.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES	POTENTIAL DEGREE	PERCENT	DIRECTION DEGREES (TN)	SPEED KNOTS	
899.0	5050.	23.3	7.8	37.	302.4	5.6	
809.0	6775.	19.8	-2.0	25.	351.0	7.1	
750.0	8507.	17.8	-7.1	18.	358.8	15.2	
702.0	10568.	14.0	-10.6	17.	13.1	9.4	
650.0	12504.	10.9	-15.5	14.	335.7	10.9	
602.0	14713.	6.1	-13.9	13.	313.5	9.8	
550.0	17027.	.7	-23.9	14.	311.2	2.2	
500.0	19507.	-5.7	-27.4	16.	351.1	6.6	
459.0	22185.	-11.9	-32.6	16.	292.7	11.6	
400.0	25102.	-14.0	-37.8	17.	213.1	12.0	
350.0	28313.	-26.6	-44.2	17.	237.6	15.8	
300.0	31912.	-34.1	-50.5	17.	304.6	24.9	
250.0	36069.	-44.5			309.7	33.9	
200.0	40813.	-53.8			307.9	41.3	
175.0	43580.	-59.7			317.9	42.4	
150.0	46709.	-65.3			324.4	36.3	
125.0	50201.	-71.5			327.5	30.0	
100.0	54537.	-74.1			326.1	13.4	
80.0	58907.	-69.7			325.5	7.0	
70.0	61520.	-68.0			355.2	9.1	
60.0	64591.	-64.9			266.7	3.8	
50.0	68272.	-61.2			354.5	6.1	
40.0	72056.	-57.5			70.5	10.5	
30.0	78883.	-52.8					

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

STATION ALTITUDE 4335.50 FEET MSL
 1 OCT. 49
 ASCENSION NO. 4 1405 HRS MDT

SIGNIFICANT LEVEL DATA
 2/50230004
 SW 70

GEODETTIC COORDINATES
 33.30888 LAT DEG
 106.40406 LON DEG

TABLE 10

PRESSURE MILLIBARS	GEO METRIC ALTITUDE MFL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	
869.7	4395.5	30.4	5.0	21.0
850.0	5031.3	28.5	4.1	21.0
748.6	4661.6	17.5	-2.7	25.0
700.0	10532.1	14.2	-10.5	17.0
662.8	12935.0	10.6	-12.0	19.0
644.6	12796.2	10.5	-15.0	14.0
549.0	17110.3	1.0	-23.4	14.0
500.0	19549.5	-5.8	-27.5	16.0
424.0	23725.3	-14.9	-35.0	16.0
400.0	25164.8	-18.8	-38.2	16.0
334.6	29457.5	-27.0	-44.5	17.0
300.0	32028.2	-33.5	-50.0	17.0
250.0	35159.2	-43.0		
200.0	41001.8	-53.5		
150.0	46934.4	-65.6		
122.0	51013.7	-71.4		
104.6	54001.2	-73.7		
100.0	54870.7	-72.5		
82.6	58611.7	-68.9		
79.0	61871.0	-70.0		
62.0	64286.4	-64.9		
50.0	66670.6	-60.1		
34.8	76220.7	-55.8		
30.0	79374.7	-51.7		
26.2	82300.2	-48.7		
20.0	88164.3	-49.5		

STATION ALTITUDE 4355.59 FEET MSL
 LOCAL TIME 1405 HRS MDT
 OBSERVATION NO. 4

UPPER AIR DATA
 2750250004
 SW 70

GLONALIC COORDINATES
 33.30888 LAT 1EG
 106.40406 LONG DLG

TABLE 11

GEOMETRIC ALTITUDE FT	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
4355.5	868.7	30.4	21.0	923.0	680.1	270.0	2.9	1.000259
4500.0	865.6	30.1	21.0	920.5	679.7	270.0	2.9	1.000258
5000.0	850.9	29.6	21.0	918.8	678.0	302.3	3.3	1.000252
5500.0	836.2	27.1	21.5	916.9	676.2	320.2	4.2	1.000248
6000.0	821.7	25.6	22.1	915.1	674.4	331.4	5.3	1.000244
6500.0	807.4	24.0	22.6	913.4	672.7	341.1	6.1	1.000239
7000.0	793.4	22.5	23.2	912.0	670.9	347.7	6.7	1.000235
7500.0	779.7	21.0	23.7	920.6	669.1	352.6	7.1	1.000231
8000.0	766.1	19.5	24.3	909.5	667.4	350.3	8.0	1.000227
8500.0	752.8	18.0	24.8	898.5	665.6	338.9	9.3	1.000223
9000.0	739.6	16.4	23.6	886.2	664.3	354.4	10.2	1.000218
9500.0	726.4	15.0	21.4	873.3	663.2	349.1	11.1	1.000212
10000.0	713.5	13.1	19.3	860.7	662.0	349.7	9.8	1.000207
10500.0	700.8	14.3	17.1	848.2	661.0	351.9	8.1	1.000202
11000.0	688.2	13.1	17.6	836.4	659.6	359.0	6.2	1.000199
11500.0	675.8	11.9	19.3	824.8	658.2	349.9	4.7	1.000196
12000.0	663.6	10.7	19.0	813.4	656.8	347.9	5.9	1.000193
12500.0	651.5	10.5	15.9	799.2	656.6	334.8	7.8	1.000188
13000.0	639.7	10.1	14.0	786.1	655.9	323.4	10.7	1.000183
13500.0	627.9	9.0	14.0	774.7	654.6	323.7	13.3	1.000180
14000.0	616.4	7.8	14.0	763.4	653.3	317.1	14.6	1.000177
14500.0	605.0	6.7	14.0	752.5	652.1	312.5	15.2	1.000174
15000.0	593.8	5.6	14.0	741.4	650.8	309.8	14.4	1.000171
15500.0	582.9	4.5	14.0	730.7	649.4	303.5	13.2	1.000169
16000.0	572.2	3.4	14.0	720.1	648.1	309.2	11.5	1.000166
16500.0	561.6	2.3	14.0	709.7	646.8	300.5	10.3	1.000163
17000.0	551.5	1.2	14.0	699.4	645.5	300.4	9.5	1.000161
17500.0	540.9	-.1	14.3	689.6	644.0	294.4	8.4	1.000158
18000.0	530.6	-1.5	14.7	680.0	642.3	287.1	6.9	1.000156
18500.0	520.5	-2.9	15.1	670.6	640.6	283.5	5.8	1.000153
19000.0	510.6	-4.3	15.5	661.3	639.0	280.5	4.8	1.000151
19500.0	500.9	-5.7	16.0	652.1	637.3	273.4	4.3	1.000149

GEODETIC COORDINATES
 53.35898 LAT LEG
 106.40406 LON LEG

UPPER AIR DATA
 2750230004
 5M 70

TABLE 11 (CONT)

STATION ALTITUDE 4395.50 FEET MSL
 1 OCT 69
 ASCENSION NO. 4
 1405 HRS MDT

GEOMETRIC ALTITUDE FSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	HUMIDITY PERCENT	DENSITY GM/CUBIC METER	SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
20000.0	491.2	-6.8	16.0	642.1	636.0	303.9	4.6	1.000146
20500.0	481.6	-7.9	16.0	632.2	634.7	304.7	5.1	1.000144
21000.0	472.2	-9.0	16.0	622.4	633.5	293.0	6.1	1.000141
21500.0	462.9	-10.1	16.0	612.7	632.0	276.3	7.4	1.000139
22000.0	453.9	-11.1	16.0	603.3	630.7	259.4	9.9	1.000137
22500.0	445.0	-12.2	16.0	594.0	629.4	249.0	11.6	1.000134
23000.0	436.5	-13.3	16.0	584.8	628.1	240.7	13.0	1.000132
23500.0	427.8	-14.4	16.0	575.8	626.7	234.1	13.9	1.000130
24000.0	419.5	-15.6	16.0	567.1	625.2	228.2	14.6	1.000128
24500.0	410.9	-17.0	16.0	558.7	623.6	224.7	15.4	1.000126
25000.0	402.7	-18.4	16.0	550.4	621.9	222.2	16.1	1.000124
25500.0	394.5	-19.4	16.1	541.5	620.6	221.6	16.8	1.000122
26000.0	386.4	-20.4	16.2	532.4	619.4	221.3	17.4	1.000120
26500.0	378.5	-21.4	16.3	523.5	618.2	220.3	17.8	1.000118
27000.0	370.7	-22.3	16.4	514.7	617.1	235.4	18.4	1.000116
27500.0	363.1	-23.3	16.5	506.1	615.9	248.5	17.7	1.000114
28000.0	355.6	-24.2	16.7	497.6	614.7	262.4	17.9	1.000112
28500.0	348.0	-25.2	16.8	489.3	613.5	276.2	19.3	1.000110
29000.0	341.2	-26.1	16.9	481.1	612.3	287.7	21.6	1.000108
29500.0	334.2	-27.1	17.0	473.1	611.1	291.5	24.1	1.000106
30000.0	327.1	-28.4	17.0	465.5	609.5	293.6	26.5	1.000104
30500.0	320.2	-29.6	17.0	458.1	608.0	293.5	26.9	1.000103
31000.0	313.5	-30.9	17.0	450.7	606.4	293.0	27.2	1.000101
31500.0	306.8	-32.2	17.0	443.5	604.8	297.0	27.9	1.000099
32000.0	300.0	-33.4	17.0	436.5	603.2	300.8	28.7	1.000098
32500.0	293.2	-34.6	15.1**	429.0	601.7	302.9	29.7	1.000096
33000.0	287.4	-35.7	13.0**	421.7	600.3	304.3	30.7	1.000094
33500.0	281.1	-36.9	10.9**	414.5	598.6	303.0	31.3	1.000093
34000.0	275.0	-38.0	8.9**	407.4	597.4	302.1	31.7	1.000091
34500.0	269.0	-39.2	6.0**	400.5	595.9	302.0	31.3	1.000089
35000.0	263.1	-40.3	4.0**	393.7	594.4	303.4	30.8	1.000088
35500.0	257.4	-41.5	2.7**	387.0	593.0	303.9	30.0	1.000086

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

STATION ALTITUDE 9595.50 FEET MSL
 1 OCT 70
 1405 HRS MDT
 ASOS, SMO 810

UPPER AIR DATA
 2750230004
 SW 70
 TABLE 11 (CONT)

GEODETIC COORDINATES
 33.36888 LAT DEG
 106.40406 LONG DEG

GEOMETRIC ALTITUDE FSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
5000.0	251.8	-42.6	74*	300.5	591.5	304.4	29.5	1.000035
5050.0	246.1	-43.7		375.7	590.1	304.8	29.7	1.000023
5100.0	240.5	-44.8		366.9	588.7	305.5	29.9	1.000012
5150.0	235.0	-45.9		360.3	587.3	308.2	30.8	1.000000
5200.0	229.7	-47.0		353.8	585.9	310.7	31.8	1.000079
5250.0	224.4	-48.1		347.4	584.5	311.9	33.0	1.000077
5300.0	219.3	-49.2		341.1	583.1	313.0	34.3	1.000076
5350.0	214.5	-50.2		335.0	581.6	311.5	35.1	1.000075
5400.0	209.4	-51.3		328.9	580.2	310.0	35.9	1.000073
5450.0	204.6	-52.4		323.0	578.8	309.1	36.7	1.000072
5500.0	200.0	-53.5		317.2	577.4	308.2	37.5	1.000071
5550.0	195.2	-54.5		311.1	576.0	309.3	38.6	1.000069
5600.0	190.5	-55.5		305.0	574.7	310.5	39.7	1.000068
5650.0	185.0	-56.6		299.1	573.3	311.1	40.3	1.000067
5700.0	181.5	-57.6		293.3	572.0	311.7	41.0	1.000065
5750.0	177.2	-58.6		287.7	570.6	312.4	41.7	1.000064
5800.0	172.9	-59.6		282.1	569.3	313.2	42.4	1.000063
5850.0	168.8	-60.6		276.7	567.9	313.8	42.7	1.000062
5900.0	164.8	-61.7		271.4	566.6	314.5	42.8	1.000060
5950.0	160.8	-62.7		266.2	565.2	314.5	42.4	1.000059
6000.0	157.3	-63.7		261.0	563.8	314.3	41.7	1.000058
6050.0	153.2	-64.7		256.0	562.4	314.5	40.2	1.000057
6100.0	149.5	-65.7		251.0	561.1	315.4	38.0	1.000056
6150.0	145.8	-66.4		245.8	560.2	316.1	35.0	1.000055
6200.0	142.1	-67.0		240.3	559.2	316.0	34.1	1.000054
6250.0	138.5	-67.6		235.1	558.2	316.7	32.3	1.000052
6300.0	135.1	-68.5		230.0	557.3	315.1	31.1	1.000051
6350.0	131.7	-69.2		225.1	556.3	313.3	29.9	1.000050
6400.0	128.5	-70.0		220.2	555.3	311.5	27.7	1.000049
6450.0	125.2	-70.7		215.5	554.4	309.3	25.5	1.000048
6500.0	122.1	-71.5		210.8	553.4	307.7	24.5	1.000047
6550.0	119.3	-71.8		205.9	552.6	306.2	23.0	1.000046

* * * AT LEVEL ONE ASSUMED CLOUDY HEIGHT VALUE WAS USED FOR INTERPOLATION.

STATION ALTITUDE 4395.50 FEET MSL
 1 OCT. 68 1405 HRS MDT
 ASCENSION NO. 4

UPPER AIR DATA
 2750230004
 5W 70

GEODETIC COORDINATES
 33.36888 LAT DEG
 106.40406 LON DEG

TABLE 11 (CONT)

GEOMETRIC ALTITUDE FTAL 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(TR)	SPEED KNOTS	
52000.0	116.0	-72.2		201.0	552.3	305.1	23.7	1.000045
52500.0	113.0	-72.5		196.3	551.8	304.3	23.8	1.000044
53000.0	110.1	-72.9		191.6	551.3	303.8	23.7	1.000043
53500.0	107.3	-73.3		187.1	550.7	303.6	23.3	1.000042
54000.0	104.6	-73.7		182.7	550.2	303.8	22.8	1.000041
54500.0	101.9	-73.0		177.4	551.1	303.8	22.4	1.000040
55000.0	99.3	-72.4		172.4	552.0	303.6	22.0	1.000038
55500.0	96.8	-71.9		167.6	552.7	303.6	21.9	1.000037
56000.0	94.4	-71.4		163.0	553.3	303.6	21.9	1.000036
56500.0	92.0	-70.9		158.5	554.0	303.2	22.0	1.000035
57000.0	89.7	-70.5		154.1	554.7	307.2	22.1	1.000034
57500.0	87.4	-70.0		149.9	555.3	303.8	21.5	1.000033
58000.0	85.2	-69.5		145.8	556.0	313.7	20.0	1.000032
58500.0	83.1	-69.0		141.8	556.8	313.2	18.5	1.000032
59000.0	81.0	-69.0		138.2	556.6	321.9	16.1	1.000031
59500.0	79.0	-69.2		134.9	556.4	327.0	13.9	1.000030
60000.0	77.0	-69.4		131.5	556.1	330.9	11.8	1.000029
60500.0	75.0	-69.5		128.4	555.9	334.2	9.9	1.000029
61000.0	73.2	-69.7		125.3	555.7	350.5	8.3	1.000028
61500.0	71.3	-69.9		122.2	555.4	330.4	7.5	1.000027
62000.0	69.6	-69.7		119.1	555.6	322.9	6.8	1.000027
62500.0	67.8	-69.7		115.6	557.1	315.5	6.9	1.000026
63000.0	66.1	-69.6		112.1	558.5	308.9	7.3	1.000025
63500.0	64.5	-69.6		108.8	560.0	304.8	7.5	1.000024
64000.0	62.9	-69.5		105.5	561.4	304.8	7.2	1.000023
64500.0	61.4	-69.7		102.5	562.5	304.8	6.9	1.000023
65000.0	59.9	-69.1		99.8	563.3	307.4	6.7	1.000022
65500.0	58.4	-69.6		97.1	564.0	310.6	6.6	1.000022
66000.0	57.0	-69.6		94.5	564.7	314.6	6.6	1.000021
66500.0	55.6	-69.5		92.0	565.3	320.9	6.7	1.000020
67000.0	54.3	-69.9		89.5	566.2	326.7	6.9	1.000020
67500.0	53.0	-69.8		87.1	566.9	330.8	7.6	1.000019

STATION ALTITUDE 9335.50 FEET MSL
 1 OCT. 80
 ASCENSION NO. 4 1405 HRS MDT

UPPER AIR DATA
 2750230004
 SW 70

GEODLTIC COORDINATES
 33.36888 LAT DEG
 106.40406 LON DEG

TABLE 11 (CONT)

GEODLTIC 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(TW)	SPEED KNOTS	
04000.0	24.2	-49.9		37.0	563.4	306.8	2.5	1.000008
04500.0	23.7	-49.0		36.8	583.3	306.8	3.1	1.000008
05000.0	23.1	-49.1		36.0	583.2	306.8	2.3	1.000008
05500.0	22.6	-49.1		35.2	583.1	306.8	1.4	1.000008
06000.0	22.1	-49.2		34.4	583.0	306.8	.5	1.000008
06500.0	21.6	-49.3		33.6	582.9			1.000007
07000.0	21.1	-49.3		32.8	582.8			1.000007
07500.0	20.6	-49.4		32.1	582.7			1.000007
08000.0	20.2	-49.5		31.4	582.6			1.000007

STATION ALTITUDE 4395.50 FEET MSL
 1 OCT. 50
 ASCENDING 140. 4 1405 HRS MDT

MANDATORY LEVELS
 2759230004
 SW 70

GEODLTIC COORDINATES
 33.36888 LAT DEG
 106.40406 LON DEG

TABLE 12

PRESSURE EQUIPOTENTIAL		TEMPERATURE		REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT DEGREES		DIRECTION DEGREES(TN)	SPEED KNOTS
350.0	5028.	28.5	4.1	21.	303.6	5.3
300.0	6776.	23.3	.9	23.	345.3	6.6
250.0	8602.	17.7	-2.0	25.	359.2	9.6
200.0	10572.	14.2	-10.5	17.	352.0	8.0
150.0	12555.	10.5	-14.0	15.	333.8	8.1
100.0	14725.	6.3	-19.2	14.	311.3	14.8
50.0	17041.	1.1	-23.4	14.	299.7	9.5
50.0	19523.	-5.8	-27.5	16.	294.3	4.3
45.0	22292.	-11.6	-32.3	16.	254.4	11.0
40.0	25124.	-18.8	-38.2	16.	221.7	16.3
35.0	28349.	-25.0	-42.9	17.	273.3	18.9
30.0	31966.	-33.5	-50.0	17.	300.8	28.7
25.0	36082.	-43.0			304.5	29.5
20.0	40904.	-53.5			308.2	37.5
17.5	43677.	-59.1			312.8	42.1
15.0	46810.	-65.6			315.2	38.4
12.5	50401.	-70.7			309.2	25.4
10.0	54704.	-72.5			303.8	22.1
8.0	59050.	-69.1			323.9	15.1
7.0	61663.	-70.0			329.4	7.0
6.0	64719.	-64.2			306.9	6.7
5.0	68417.	-60.1			330.3	9.4
4.0	73014.	-57.5			84.8	6.9
3.0	79041.	-51.7			120.8	1.2
2.5	82953.	-48.8			306.8	
2.0	87756.	-49.5				

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