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ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/G 4/2
12827A LANCE, MISSILE NUMBER 4444, ROUND NUMBER 318 NPL (25 AUG--ETC(U)
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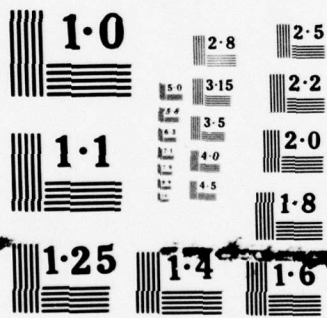
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9 METEOROLOGICAL DATA REPORT 13

6 12827A LANCE
MISSILE NO. 4444, ROUND NO. 318 NPL
(25 AUGUST 1978)

BY

WSMR METEOROLOGICAL TEAM

11 Sep 78

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 12827A Lance, Missile Number 4444, Round Number 318 NPL, are presented in tabular form.		

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INTRODUCTION

12827A Lance, Missile Number 4444, Round Number 318 NPL, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 0837 HRS MDT, 25 August 1978. The scheduled launch time was 0830 HRS MDT.

DISCUSSION

Meteorological data were recorded and reduced by the WSMR Meteorological Team, Atmospheric Sciences Laboratory (ASL), WSMR, New Mexico. The data are presented in the following tabulations.

ELEVATION	3,977.30	FEET/MSL
PRESSURE	884.2	MBS
TEMPERATURE	20.5	°C
RELATIVE HUMIDITY	83	%
DEW POINT	17.5	°C
DENSITY	1,040	GM/M ³
WIND SPEED/DIR.	CALM	
CLOUD COVER	9 1	Sc Ac

TABLE I. SURFACE OBSERVATIONS TAKEN AT LC-33
0840 HRS MDT/25 AUGUST 1978

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	CALM	1	2100	210	04.5
100	CALM		2200	212	05.0
200	CALM		2300	216	05.5
300	127	00.5	2400	220	06.0
400	209	01.0	2500	219	06.5
500	292	01.0	2600	218	06.5
600	014	00.5	2700	219	06.5
700	317	01.0	2800	220	06.5
800	259	01.0	2900	237	05.0
900	234	02.5	3000	254	03.5
1000	208	03.5	3100	243	04.0
1100	187	03.0	3200	254	03.5
1200	166	02.5	3300	263	04.5
1300	150	03.0	3400	272	05.0
1400	134	03.0	3500	271	05.0
1500	136	02.5	3600	269	04.5
1600	137	02.0	3700	273	04.5
1700	162	02.5	3800	277	04.0
1800	187	02.5	3900	276	04.5
1900	197	03.0	4000	274	05.0
2000	207	03.5	4100	278	05.0

TABLE II. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM LC-33, AT 0825 HRS MDT/25 AUGUST 1978
12827A LANCE, MISSILE NUMBER 4444, ROUND NUMBER 318 NPL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,037.24 Y = 182,350.16 Z = 3,977.30

APPROXIMATELY: 1/4 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	281	04.5	6700	040	03.5
4300	291	04.5	6800	054	03.0
4400	301	04.0	6900	051	04.0
4500	307	04.5	7000	048	05.0
4600	313	05.0	7100	053	05.5
4700	317	05.0	7200	058	06.0
4800	320	04.5	7300	058	06.5
4900	326	05.0	7400	058	07.0
5000	332	05.0	7500	051	06.0
5100	324	05.5	7600	043	05.0
5200	316	06.0	7700	035	05.0
5300	315	06.0	7800	027	05.0
5400	314	06.0	7900	031	05.5
5500	315	06.0	8000	034	05.5
5600	315	06.0	8100	022	05.0
5700	323	05.0	8200	009	04.0
5800	330	04.0	8300	005	04.0
5900	337	03.5	8400	360	04.0
6000	333	03.0	8500	355	04.5
6100	353	02.5	8600	349	05.0
6200	013	01.5	8700	341	04.5
6300	013	02.5	8800	333	04.0
6400	012	03.0	8900	350	05.0
6500	019	03.5	9000	007	05.5
6600	026	03.5			

TABLE II. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	CALM		2100	240	06.0
100	CALM		2200	241	06.0
200	CALM		2300	241	07.0
300	032	00.5	2400	241	08.0
400	018	01.0	2500	236	07.0
500	091	01.5	2600	230	06.0
600	164	02.0	2700	247	06.0
700	097	02.0	2800	263	06.0
800	029	01.5	2900	268	04.5
900	305	01.5	3000	272	03.0
1000	220	01.5	3100	279	04.0
1100	205	02.0	3200	285	04.5
1200	189	02.5	3300	277	04.0
1300	214	02.0	3400	268	03.5
1400	238	01.5	3500	308	03.0
1500	299	01.0	3600	347	02.0
1600	360	00.5	3700	340	04.0
1700	300	01.5	3800	333	05.5
1800	239	02.5	3900	329	05.5
1900	239	04.5	4000	325	05.0
2000	238	06.0	4100	339	05.0

TABLE III. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM LC-33, AT 0840 HRS MDT/25 AUGUST 1978
12827A LANCE, MISSILE NUMBER 4444, ROUND NUMBER 318 NPL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,037.24 Y = 182,350.16 Z = 3,977.30

APPROXIMATELY: 1/4 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	352	04.5	6600	032	06.5
4300	343	05.0	6700	055	06.0
4400	333	05.5	6800	077	05.5
4500	317	07.0	6900	080	04.5
4600	301	08.0	7000	082	03.0
4700	320	08.5	7100	065	05.0
4800	339	09.0	7200	047	07.0
4900	338	07.5	7300	049	07.0
5000	337	05.5	7400	050	07.0
5100	327	06.0	7500	039	06.5
5200	316	06.0	7600	027	05.5
5300	322	05.5	7700	045	04.5
5400	328	05.0	7800	063	03.5
5500	333	05.0	7900	037	04.0
5600	337	04.5	8000	011	04.5
5700	346	03.5	8100	006	06.0
5800	355	02.0	8200	001	07.5
5900	043	01.5	8300	339	07.0
6000	090	01.0	8400	316	06.0
6100	052	02.5	8500	347	07.0
6200	014	03.5	8600	018	07.5
6300	033	05.5	8700	346	06.0
6400	051	07.5	8800	314	04.0
6500	042	07.0	8900	325	04.0

TABLE III. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
9000	335	03.5
9100	006	03.0
9200	036	02.0
9300	357	03.0
9400	317	04.0
9500	001	02.5
9600	045	00.5
9700	031	03.5
9800	016	06.0
9900	003	07.5
10000	350	09.0
10100	355	08.5
10200	359	07.5
10300	358	06.0
10400	356	04.5
10500	349	05.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
10600	341	05.5
10700	026	04.5
10800	071	03.5
10900	038	03.0
11000	005	02.5
11100	327	02.0
11200	288	01.5
11300	339	02.0
11400	030	02.5
11500	084	05.0
11600	137	07.0
11700	140	08.0
11800	142	09.0
11900	138	08.0
12000	134	06.5

TABLE III. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

STATION ALTITUDE 4051.00 FEET MSL
 25 AUG. 78
 ASCENSION NO. 100
 0730 HRS MDT

SIGNIFICANT LEVEL DATA
 2370030100
 JALLEN
 TABLE IV.

GEODETIC COORDINATE
 33.16712 LAT D
 106.49511 LON D

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
880.8	4051.0	17.2	16.7	97.0
870.8	4371.1	17.1		
850.0	5044.2	15.5		
700.0	10367.9	8.2		
596.6	14631.0	-3		
543.8	17047.7	-4.3		
500.0	19206.1	-8.2		
453.7	21662.8	-13.2		
440.4	22408.8	-12.6		
400.0	24795.7	-18.8		
387.2	25590.6	-20.3		
336.6	28957.3	-27.2		
300.0	31649.4	-34.0		
269.8	34065.4	-40.1		
250.0	35762.7	-44.5		
200.0	40557.8	-56.4		
177.2	42995.6	-60.6		
174.2	43416.5	-59.4		
150.0	46479.6	-62.7		
146.3	46987.9	-62.1		
126.2	49950.0	-69.2		
117.2	51406.3	-69.6		
107.1	53167.9	-72.1		
100.0	54513.9	-68.1		
92.2	56115.1	-70.2		
70.0	61629.5	-62.0		
62.3	64024.1	-59.4		
50.0	68563.1	-60.3		
34.9	76020.3	-57.5		
30.0	79217.7	-52.4		

STATION ALTITUDE 4051.00 FEET MSL
25 AUG. 78 0730 HRS MDT
ASCENSION NO. 100

SIGNIFICANT LEVEL DATA
2370030100
JALLEN
TABLE IV. (CONT)

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
21.9 86001.8	-49.0	

STATION ALTITUDE 4051.00 FEET MSL
 25 AUG. 78 U730 HRS EDT
 ASCENSION NO. 100

UPPER AIR DATA
 2370030100
 JALLEN
 TABLE V.

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
4051.0	880.8	17.2	16.7	97.0**	1048.1	666.6	.0	.0	1.000319
4500.0	866.8	16.8			1041.4	663.4	165.9	1.5	1.000232
5000.0	851.4	15.6			1027.1	662.0	165.9	3.1	1.000229
5500.0	836.0	14.9			1011.1	661.2	165.9	4.7	1.000225
6000.0	820.9	14.2			995.2	660.4	165.9	5.8	1.000222
6500.0	806.0	13.5			979.6	659.6	166.0	6.2	1.000218
7000.0	791.5	12.8			964.2	658.8	177.6	6.5	1.000215
7500.0	777.2	12.1			949.0	658.0	191.3	7.0	1.000211
8000.0	763.1	11.4			934.1	657.2	195.9	6.9	1.000208
8500.0	749.3	10.8			919.5	656.4	199.5	6.5	1.000205
9000.0	735.8	10.1			905.0	655.6	200.1	5.1	1.000202
9500.0	722.5	9.4			890.8	654.8	203.3	3.3	1.000198
10000.0	709.5	8.7			876.9	654.0	220.9	1.3	1.000195
10500.0	696.5	7.9			863.3	653.2	358.3	1.4	1.000192
11000.0	683.6	6.9			850.3	652.0	13.2	3.9	1.000189
11500.0	670.9	5.9			837.4	650.8	11.3	6.2	1.000187
12000.0	658.5	4.9			824.8	649.7	10.4	8.3	1.000184
12500.0	646.2	3.9			812.4	648.5	9.9	9.8	1.000181
13000.0	634.2	3.0			800.2	647.3	10.5	10.5	1.000178
13500.0	622.4	2.0			788.2	646.2	13.1	9.7	1.000176
14000.0	610.9	1.0			776.4	645.0	23.5	9.4	1.000173
14500.0	599.5	-0.0			764.7	643.8	40.5	10.6	1.000170
15000.0	588.2	-0.9			752.7	642.8	36.6	11.9	1.000168
15500.0	577.0	-1.7			740.7	641.8	22.6	13.5	1.000165
16000.0	566.1	-2.6			728.8	640.8	10.4	12.5	1.000162
16500.0	555.3	-3.4			717.2	639.9	358.8	11.2	1.000160
17000.0	544.8	-4.2			705.7	638.9	20.5	7.2	1.000157
17500.0	534.3	-5.1			694.5	637.8	54.0	5.7	1.000155
18000.0	524.0	-6.0			683.4	636.7	63.5	5.6	1.000152
18500.0	513.9	-6.9			672.5	635.7	67.2	5.1	1.000150

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

UPPER AIR DATA
 2370030100
 JALLEN
 TABLE V. (CONT)

STATION ALTITUDE 4051.00 FEET MSL
 25 AUG. 78
 ASCENSION NO. 100
 0730 HRS MDT

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
19000.0	504.0	-7.8			661.8	634.6	55.7	3.9	1.000147
19500.0	494.2	-8.8			651.3	633.4	26.0	2.5	1.000145
20000.0	484.5	-9.8			641.0	632.2	321.3	2.7	1.000143
20500.0	475.1	-10.8			630.9	631.0	291.4	3.8	1.000141
21000.0	465.8	-11.9			620.9	629.7	275.6	5.2	1.000138
21500.0	456.6	-12.9			611.2	628.5	273.1	5.8	1.000136
22000.0	447.6	-12.9			599.3	628.4	272.2	6.4	1.000133
22500.0	438.8	-12.8			587.2	628.6	272.8	7.3	1.000131
23000.0	430.0	-14.1			578.4	627.0	273.4	8.2	1.000129
23500.0	421.4	-15.4			569.7	625.4	269.7	8.2	1.000127
24000.0	413.0	-16.7			561.2	623.8	264.8	8.1	1.000125
24500.0	404.8	-18.0			552.8	622.2	259.9	7.8	1.000123
25000.0	396.7	-19.2			544.1	620.8	254.4	6.9	1.000121
25500.0	388.6	-20.1			535.1	619.7	247.2	6.3	1.000119
26000.0	380.7	-21.1			526.2	618.4	237.8	10.3	1.000117
26500.0	372.8	-22.2			517.5	617.2	233.7	14.4	1.000115
27000.0	365.2	-23.2			508.9	615.9	225.0	17.6	1.000113
27500.0	357.6	-24.2			500.5	614.7	219.1	21.1	1.000111
28000.0	350.3	-25.2			492.2	613.4	211.9	22.4	1.000110
28500.0	343.1	-26.3			484.1	612.1	205.4	24.0	1.000108
29000.0	336.0	-27.3			476.1	610.8	205.8	26.0	1.000106
29500.0	328.9	-28.6			468.4	609.3	206.7	28.0	1.000104
30000.0	321.9	-29.8			460.9	607.7	207.6	28.3	1.000103
30500.0	315.1	-31.1			453.5	606.1	208.5	28.4	1.000101
31000.0	308.4	-32.4			446.2	604.5	207.9	28.7	1.000099
31500.0	301.9	-33.6			439.1	602.9	206.9	29.2	1.000098
32000.0	295.4	-34.9			431.9	601.3	207.0	31.4	1.000096
32500.0	289.0	-36.1			424.8	599.8	207.5	34.5	1.000095
33000.0	282.7	-37.4			417.8	598.2	208.5	36.8	1.000093
33500.0	276.6	-38.7			410.9	596.5	209.8	38.2	1.000092

STATION ALTITUDE 4051.00 FEET MSL
 25 AUG. 78
 ASCENSION NO. 100

UPPER AIR DATA
 2370030100
 JALLEN
 TABLE V.. (CONT)

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
34000.0	270.6	-39.9		404.2	594.9	210.8	39.2	1.000090
34500.0	264.6	-41.2		397.4	593.3	211.4	39.5	1.000089
35000.0	258.7	-42.5		390.8	591.6	211.7	39.9	1.000087
35500.0	253.0	-43.8		384.3	590.0	210.9	40.9	1.000086
36000.0	247.3	-45.1		377.7	588.3	210.2	41.9	1.000084
36500.0	241.6	-46.3		371.0	586.7	209.4	41.6	1.000083
37000.0	236.0	-47.5		364.5	585.1	208.6	41.4	1.000081
37500.0	230.6	-48.8		358.1	583.5	208.6	42.5	1.000080
38000.0	225.3	-50.1		351.8	581.9	208.6	43.8	1.000078
38500.0	220.1	-51.3		345.6	580.3	209.9	45.9	1.000077
39000.0	215.0	-52.5		339.6	578.6	211.4	48.4	1.000076
39500.0	210.1	-53.8		333.6	577.0	213.5	49.9	1.000074
40000.0	205.3	-55.0		327.8	575.4	215.9	50.9	1.000073
40500.0	200.5	-56.3		322.1	573.7	218.3	51.3	1.000072
41000.0	195.8	-57.2		315.8	572.5	221.0	50.9	1.000070
41500.0	191.1	-58.0		309.5	571.4	223.8	50.6	1.000069
42000.0	186.6	-58.9		303.3	570.3	227.8	48.9	1.000068
42500.0	182.1	-59.7		297.3	569.1	232.0	47.5	1.000066
43000.0	177.8	-60.6		291.3	568.0	235.3	44.0	1.000065
43500.0	173.5	-59.5		282.9	569.5	238.7	39.7	1.000063
44000.0	169.3	-60.0		276.7	568.7	240.6	36.2	1.000062
44500.0	165.2	-60.6		270.8	568.0	240.0	33.3	1.000060
45000.0	161.2	-61.1		264.9	567.3	239.5	30.9	1.000059
45500.0	157.3	-61.6		259.2	566.6	239.3	29.7	1.000058
46000.0	153.6	-62.2		253.6	565.9	239.2	28.6	1.000056
46500.0	149.8	-62.7		248.0	565.2	240.4	24.6	1.000055
47000.0	146.2	-62.1		241.4	565.9	243.3	19.4	1.000054
47500.0	142.6	-63.3		236.8	564.3	247.3	14.3	1.000053
48000.0	139.1	-64.5		232.3	562.7	245.5	9.8	1.000052
48500.0	135.7	-65.7		227.9	561.1	240.5	5.2	1.000051

UPPER AIR DATA
 2370030100
 JALLEN
 TABLE V. (CONT)

STATION ALTITUDE 4051.00 FEET MSL
 25 AUG. 78
 ASCENSION NO. 100
 0730 HRS MDT

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
49000.0	132.3	-66.9			223.5	559.5	219.6	3.6	1.000050
49500.0	129.1	-68.1			219.3	557.8	205.2	5.2	1.000049
50000.0	125.9	-69.2			215.0	556.3	197.9	7.0	1.000048
50500.0	122.7	-69.4			209.8	556.2	195.7	7.4	1.000047
51000.0	119.6	-69.5			204.7	556.0	194.1	7.5	1.000046
51500.0	116.6	-69.7			199.8	555.6	192.7	7.3	1.000044
52000.0	113.7	-70.4			195.4	554.7	191.9	5.7	1.000044
52500.0	110.8	-71.2			191.1	553.7	190.5	4.2	1.000043
53000.0	108.0	-71.9			187.0	552.7	197.3	2.8	1.000042
53500.0	105.3	-71.1			181.6	553.7	224.6	1.8	1.000040
54000.0	102.7	-69.6			175.7	555.8	272.5	1.7	1.000039
54500.0	100.1	-68.1			170.0	557.8	327.9	1.2	1.000038
55000.0	97.6	-68.7			166.3	557.0	16.6	2.0	1.000037
55500.0	95.1	-69.4			162.6	556.1	35.7	3.0	1.000036
56000.0	92.7	-70.0			159.1	555.2	51.2	3.9	1.000035
56500.0	90.4	-69.6			154.8	555.8	60.6	4.9	1.000034
57000.0	88.2	-68.9			150.4	556.8	60.4	6.0	1.000033
57500.0	86.0	-68.1			146.2	557.8	58.2	7.1	1.000033
58000.0	83.9	-67.4			142.1	558.8	56.8	8.1	1.000032
58500.0	81.8	-66.7			138.1	559.8	57.7	8.7	1.000031
59000.0	79.8	-65.9			134.2	560.8	58.4	9.4	1.000030
59500.0	77.9	-65.2			130.4	561.8	61.1	9.7	1.000029
60000.0	75.9	-64.4			126.7	562.8	65.8	9.7	1.000028
60500.0	74.1	-63.7			123.2	563.8	70.4	9.7	1.000027
61000.0	72.2	-62.9			119.7	564.8	75.8	9.3	1.000027
61500.0	70.5	-62.2			116.3	565.8	81.9	8.9	1.000026
62000.0	68.7	-61.6			113.2	566.6	87.2	8.8	1.000025
62500.0	67.1	-61.1			110.2	567.4	84.2	10.1	1.000025
63000.0	65.5	-60.5			107.3	568.1	81.8	11.4	1.000024
63500.0	63.9	-60.0			104.4	568.8	80.0	13.0	1.000023

STATION ALTITUDE 4051.00 FEET MSL
 25 AUG. 78
 ASCENSION NO. 100 0730 HRS MDT

UPPER AIR DATA
 2370030100
 JALLEN
 TABLE V. (CONT)

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
64000.0	62.4	-59.4		101.7	569.5	78.8	14.9	1.000023
64500.0	60.9	-59.5		99.3	569.4	77.9	16.9	1.000022
65000.0	59.4	-59.6		96.9	569.3	80.7	18.2	1.000022
65500.0	58.0	-59.7		94.7	569.2	86.0	19.2	1.000021
66000.0	56.6	-59.8		92.4	569.0	90.8	20.3	1.000021
66500.0	55.3	-59.9		90.3	568.9	92.4	21.0	1.000020
67000.0	53.9	-60.0		88.1	568.8	92.7	21.6	1.000020
67500.0	52.6	-60.1		86.1	568.7	93.1	22.1	1.000019
68000.0	51.4	-60.2		84.1	568.5	93.8	21.1	1.000019
68500.0	50.2	-60.3		82.1	568.4	94.8	19.9	1.000018
69000.0	49.0	-60.1		80.1	568.6	95.8	18.6	1.000018
69500.0	47.8	-59.9		78.1	568.8	97.1	18.6	1.000017
70000.0	46.7	-59.8		76.2	569.1	98.5	18.6	1.000017
70500.0	45.5	-59.6		74.3	569.3	99.1	18.8	1.000017
71000.0	44.5	-59.4		72.5	569.6	97.1	19.9	1.000016
71500.0	43.4	-59.2		70.7	569.8	95.2	20.9	1.000016
72000.0	42.4	-59.0		68.9	570.1	93.4	21.6	1.000015
72500.0	41.4	-58.8		67.2	570.3	91.2	21.0	1.000015
73000.0	40.4	-58.6		65.6	570.6	88.9	20.4	1.000015
73500.0	39.4	-58.4		63.9	570.8	85.9	20.8	1.000014
74000.0	38.5	-58.3		62.4	571.1	82.3	23.0	1.000014
74500.0	37.6	-58.1		60.8	571.3	79.4	25.3	1.000014
75000.0	36.7	-57.9		59.3	571.6	78.9	27.6	1.000013
75500.0	35.8	-57.7		57.9	571.8	80.9	30.0	1.000013
76000.0	34.9	-57.5		56.4	572.1	82.5	32.5	1.000013
76500.0	34.1	-56.7		54.9	573.1	83.7	33.6	1.000012
77000.0	33.3	-55.9		53.4	574.2	84.8	33.4	1.000012
77500.0	32.5	-55.1		52.0	575.2	85.9	33.3	1.000012
78000.0	31.8	-54.3		50.6	576.3	86.1	33.9	1.000011
78500.0	31.0	-53.5		49.2	577.3	85.6	34.9	1.000011

STATION ALTITUDE 4051.00 FEET MSL
 25 AUG. 78
 ASCENSION NO. 100 0730 HRS MDT

UPPER AIR DATA
 2370030100
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

TABLE V. (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	
79000.0	30.3	-52.7		47.9	578.4	85.2	35.9	1.000011
79500.0	29.6	-52.3		46.7	579.0	86.2	36.3	1.000010
80000.0	28.9	-52.0		45.6	579.3	88.2	36.3	1.000010
80500.0	28.3	-51.8		44.5	579.7	90.2	36.3	1.000010
81000.0	27.6	-51.5		43.4	580.0	91.6	36.3	1.000010
81500.0	27.0	-51.3		42.4	580.3	92.5	36.2	1.000009
82000.0	26.4	-51.0		41.3	580.6	93.3	36.1	1.000009
82500.0	25.8	-50.8		40.4	581.0	94.5	35.8	1.000009
83000.0	25.2	-50.5		39.4	581.3	96.4	34.8	1.000009
83500.0	24.6	-50.3		38.4	581.6	98.4	33.8	1.000009
84000.0	24.0	-50.0		37.5	582.0			1.000008
84500.0	23.5	-49.8		36.6	582.3			1.000008
85000.0	22.9	-49.5		35.7	582.6			1.000008
85500.0	22.4	-49.3		34.9	582.9			1.000008
86000.0	21.9	-49.0		34.0	583.3			1.000008

STATION ALTITUDE 4051.00 FEET MSL
 25 AUG. 78
 ASCENSION NO. 100
 0730 HRS MDT

MANDATORY LEVELS
 2370030100
 JALLEN
 TABLE VI.

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
850.0	5041.	15.5			165.9	3.2	
800.0	6716.	13.2			169.1	6.4	
750.0	8484.	10.8			199.5	6.6	
700.0	10358.	8.2			336.9	.8	
650.0	12348.	4.3			10.1	9.3	
600.0	14465.	.0			39.7	10.5	
550.0	16733.	-3.8			7.1	9.1	
500.0	19180.	-8.2			48.9	3.4	
450.0	21836.	-13.0			272.5	6.2	
400.0	24756.	-18.8			256.9	7.3	
350.0	27978.	-25.3			211.6	22.5	
300.0	31588.	-34.0			206.7	29.3	
250.0	35686.	-44.5			210.5	41.4	
200.0	40462.	-56.4			218.6	51.2	
175.0	43214.	-59.7			237.3	41.4	
150.0	46356.	-62.7			240.3	25.1	
125.0	49996.	-69.3			197.0	7.4	
100.0	54348.	-68.1			326.4	1.2	
80.0	58737.	-66.0			58.3	9.3	
70.0	61421.	-62.0			63.2	8.8	
60.0	64573.	-59.6			78.0	17.8	
50.0	68309.	-60.3			94.8	19.8	
40.0	72892.	-58.6			88.2	20.2	
30.0	78884.	-52.4			85.0	36.3	
25.0	82769.	-50.4			96.7	34.6	

STATION ALTITUDE 3439.00 FEET MSL
 25 AUG. 76
 ASCENSION 10. 000
 0820 HRS MDT

SIGNIFICANT LEVEL DATA
 2J700-0550
 WHITE SANDS
 TABLE VII.

GEOIDTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MILLIBARS MSL FELT	TEMPERATURE AIR DEGREEES CENTIGRADE	DEWPOINT DEGREEES CENTIGRADE	RFL. HUM. PERCENT
683.1	19.7	17.7	88.0
573.2	18.7	16.3	86.0
550.0	17.0	16.2	95.0
760.6	11.6	8.1	79.0
723.8	9.4	7.7	89.0
700.0	8.4	5.5	82.0
647.0	4.4	3.8	96.0
518.0	-5.1	-0.5	90.0
500.0	-5.6	-10.9	66.0
494.6	-5.9	-14.1	52.0
479.4	-7.6	-14.4	58.0
441.0	-11.7	-37.1	10.0
419.6	-14.7	-38.5	11.0
400.0	-18.0	-26.7	46.0
370.0	-21.0	-25.0	70.0
300.0	-22.7	-37.0	60.0
294.4	-33.6	-39.7	54.0
272.2	-38.6	-43.0	63.0
261.4	-40.8	-47.3	49.0
250.0	-43.1	-49.6	48.0
200.0	-55.0		
177.8	-59.9		
165.4	-59.9		
150.0	-61.9		
150.0	-62.3		
141.6	-63.6		
127.4	-67.6		
113.4	-70.9		
103.0	-70.9		
100.0	-69.3		

SIG.IFICANT LEVEL DATA
 2070020550
 WHITE SANDS
 TABLE VII. (CONT)

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TAILOR ALTITUDE 3939.00 FEET MSL
 25 AUG. 75
 ASSENSIOW NO. 030
 0820 HRS MDT

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
94.0	56020.5	-68.9	
87.6	57429.7	-65.7	
84.2	58222.9	-66.1	
70.0	61903.8	-61.3	
58.0	65657.8	-59.1	
50.0	68909.9	-59.4	
30.0	79690.9	-51.0	
25.8	82952.3	-48.9	

UPPER AIR DATA
 2370024550
 WHITE SANDS
 TABLE VIII.

STATION ALTITUDE 3439.00 FEET MSL
 25 NOV. 73 0820 HRS MDT
 ASCENSION NO. 330

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND M/SEC	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION D-DEGREES(TN)	SPEED KNOTS	
3959.0	603.1	19.7	17.7	98.0	1041.4	669.0	.0	.0	1.000322
4000.0	602.8	19.7	17.6	97.9	1041.1	669.0	184.2	.0	1.000321
4500.0	607.3	18.3	18.3	98.3	1028.4	667.8	184.2	1.2	1.000312
5000.0	602.1	17.2	18.2	94.2	1014.1	668.5	184.2	2.4	1.000309
5500.0	600.9	16.2	18.1	92.8	999.7	665.3	184.2	3.6	1.000300
6000.0	622.0	15.4	18.8	90.2	985.3	664.1	191.9	4.3	1.000291
6500.0	607.4	14.5	12.5	87.6	971.2	663.0	202.2	4.9	1.000283
7000.0	793.0	13.8	11.1	85.0	957.3	661.8	210.3	4.2	1.000275
7500.0	778.9	12.7	9.8	82.4	943.5	660.7	221.8	3.4	1.000267
8000.0	765.1	11.9	8.5	79.8	930.0	659.5	231.5	2.7	1.000259
8500.0	751.3	11.0	8.0	81.5	916.0	658.5	244.7	2.2	1.000255
9000.0	737.7	10.2	7.9	85.2	901.9	657.6	253.0	1.9	1.000251
9500.0	724.4	9.4	7.7	88.8	886.1	656.7	263.8	1.5	1.000248
10000.0	711.3	8.9	6.6	85.3	874.0	655.9	310.1	.9	1.000241
10500.0	698.3	8.3	5.5	82.4	860.2	655.2	.0	1.5	1.000235
11000.0	685.6	7.3	5.1	85.8	847.4	654.0	8.1	2.9	1.000231
11500.0	673.0	6.4	4.7	89.1	834.7	652.9	9.0	4.3	1.000227
12000.0	660.7	5.4	4.3	92.4	822.2	651.8	7.1	5.6	1.000224
12500.0	648.6	4.5	3.9	95.7	810.0	650.6	5.0	6.1	1.000220
13000.0	636.4	3.7	3.0	95.5	797.3	649.8	5.1	5.8	1.000215
13500.0	624.4	2.9	2.1	95.0	784.8	648.8	8.0	4.5	1.000210
14000.0	612.7	2.0	1.3	94.5	772.4	647.6	23.5	2.7	1.000206
14500.0	601.2	1.2	.4	94.0	760.3	646.6	50.3	2.4	1.000201
15000.0	589.9	.4	-.5	93.5	748.3	645.6	82.1	3.3	1.000197
15500.0	578.8	-.4	-1.4	93.0	736.0	644.6	87.0	4.6	1.000192
16000.0	568.0	-1.2	-2.2	92.5	725.0	643.6	85.5	6.0	1.000188
16500.0	557.3	-2.0	-3.1	92.0	713.8	642.6	89.8	6.9	1.000184
17000.0	546.8	-2.8	-4.0	91.5	702.4	641.6	103.9	7.4	1.000180
17500.0	536.5	-3.6	-4.9	90.9	691.4	640.6	115.0	7.8	1.000176
18000.0	526.5	-4.4	-5.7	90.4	680.3	639.6	128.4	7.2	1.000173

GEODETIC COORDINATES
 32.40043 LAT DFG
 106.37033 LON DFG

UPPER AIR DATA
 2070020550
 WHITE SANDS
 TABLE VIII. (CONT)

STATION ALTITUDE 3999.00 FEET MSL
 15 AUG. 78
 0820 HRS MDT
 ASCENSION NO. 550

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
18500.0	510.5	-5.1	-6.8	33.1	659.0	638.0	141.7	6.9	1.000169
19000.0	500.7	-5.4	-9.1	75.0	657.7	638.2	152.9	4.6	1.000163
19500.0	490.9	-5.8	-12.7	58.1	648.3	637.0	181.0	2.8	1.000156
20000.0	487.4	-6.7	-14.2	54.8	638.2	638.4	211.3	2.6	1.000153
20500.0	478.0	-7.7	-14.9	55.3	628.4	635.2	236.8	3.2	1.000150
21000.0	469.7	-8.7	-18.5	45.0	618.7	633.9	239.3	3.0	1.000145
21500.0	459.5	-9.7	-22.7	33.7	607.1	632.6	241.4	2.8	1.000141
22000.0	450.6	-10.6	-28.0	22.3	597.8	631.4	248.6	2.9	1.000136
22500.0	441.8	-11.6	-36.0	11.0	588.3	630.1	251.5	3.0	1.000133
23000.0	433.1	-12.6	-37.6	10.4	579.4	628.7	248.6	3.9	1.000130
23500.0	424.5	-14.0	-33.2	10.6	570.5	627.2	245.5	5.0	1.000128
24000.0	418.1	-15.3	-34.5	17.1	561.9	625.7	239.8	6.6	1.000127
24500.0	407.8	-16.7	-29.5	31.9	553.6	624.1	233.8	8.9	1.000126
25000.0	399.8	-18.0	-26.7	46.3	545.3	622.4	228.1	11.0	1.000125
25500.0	391.5	-18.8	-26.0	52.7	538.0	621.5	218.1	12.6	1.000124
26000.0	383.0	-19.6	-25.5	59.2	529.8	620.5	210.3	14.5	1.000122
26500.0	375.8	-20.4	-25.2	65.6	517.7	619.5	205.3	15.3	1.000120
27000.0	368.2	-21.4	-25.4	69.7	509.0	618.4	200.7	16.2	1.000118
27500.0	360.5	-22.5	-26.7	68.7	500.8	617.0	202.7	16.9	1.000116
28000.0	353.0	-23.7	-26.0	77.7	492.6	615.5	205.4	17.5	1.000113
28500.0	345.7	-24.9	-29.2	67.7	484.7	614.1	205.8	18.6	1.000111
29000.0	338.5	-26.0	-30.5	65.7	478.9	612.6	205.0	19.8	1.000109
29500.0	331.4	-27.2	-31.8	64.7	469.2	611.1	202.8	21.4	1.000107
30000.0	324.5	-28.4	-33.0	63.7	461.0	609.7	200.3	23.2	1.000105
30500.0	317.7	-29.5	-34.3	62.7	454.2	608.2	199.4	24.9	1.000103
31000.0	311.1	-30.7	-35.6	61.7	448.9	608.7	199.3	26.5	1.000101
31500.0	304.7	-31.8	-36.9	60.7	439.7	605.3	199.4	27.6	1.000100
32000.0	298.3	-33.0	-38.4	59.2	432.5	603.8	199.4	28.3	1.000098
32500.0	291.9	-34.2	-40.0	55.0	425.3	602.3	199.5	28.6	1.000096
33000.0	285.6	-35.5	-40.9	57.5	418.0	600.8	199.9	28.5	1.000094

UPPLR AIR DATA
 2370000500
 "HATE SAINGS
 TABLE VIII. (CONT)

STATION ALTITUDE 3435.00 FEET MSL
 -5 NOV. 73
 ASCENSION NO. 500
 0820 HRS MDT

GEODETIC COORDINATES
 32.40043 LAT DFG
 106.37033 LON DFG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
33500.0	279.4	-36.9	60.0	411.9	596.8	199.0	28.9	1.000093
34000.0	273.3	-38.3	62.5	405.4	597.0	198.5	30.0	1.000091
34500.0	267.3	-39.6	66.8	396.7	595.4	197.9	31.4	1.000090
35000.0	261.5	-40.8	49.1	392.0	593.9	198.7	33.5	1.000088
35500.0	255.7	-41.9	48.5	385.2	592.4	199.7	35.5	1.000086
36000.0	250.0	-43.1	48.0	378.0	590.9	202.5	35.9	1.000085
36500.0	244.3	-44.3	43.0**	371.9	589.5	205.5	36.4	1.000083
37000.0	238.7	-45.6	38.1**	365.4	587.7	207.2	37.1	1.000082
37500.0	233.3	-46.8	33.1**	359.0	586.1	208.9	37.8	1.000080
38000.0	227.9	-48.0	28.1**	352.7	584.5	210.7	39.0	1.000079
38500.0	222.7	-49.3	23.2**	346.5	582.9	212.5	40.7	1.000077
39000.0	217.6	-50.5	18.2**	340.5	581.3	214.2	42.3	1.000076
39500.0	212.7	-51.7	13.2**	334.6	579.7	215.4	43.1	1.000075
40000.0	207.8	-53.0	8.2**	328.6	578.1	216.0	43.9	1.000073
40500.0	203.1	-54.2	3.3**	323.1	576.5	218.0	44.2	1.000072
41000.0	198.4	-55.3		317.2	574.9	221.0	44.1	1.000071
41500.0	193.6	-56.3		311.1	573.0	224.1	43.8	1.000069
42000.0	189.0	-57.3		305.2	572.3	229.1	42.7	1.000068
42500.0	184.6	-58.3		299.5	571.0	234.4	41.8	1.000067
43000.0	180.2	-59.3		293.6	569.8	238.0	38.6	1.000065
43500.0	175.9	-59.9		287.5	568.9	242.1	35.2	1.000064
44000.0	171.7	-59.9		280.4	568.9	244.9	32.2	1.000062
44500.0	167.6	-59.9		273.7	568.9	246.3	29.4	1.000061
45000.0	163.5	-60.3		267.7	568.3	247.4	26.2	1.000060
45500.0	159.6	-61.2		262.0	567.2	249.6	21.9	1.000058
46000.0	155.7	-62.0		256.9	566.2	243.4	17.6	1.000057
46500.0	152.0	-62.2		250.9	565.9	233.6	12.9	1.000056
47000.0	148.3	-62.6		245.5	565.3	211.9	9.1	1.000055
47500.0	144.7	-63.1		240.0	564.8	179.0	6.0	1.000053
48000.0	141.1	-63.8		234.8	563.7	160.0	9.5	1.000052

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

UPPER AIR DATA
 2070000000
 WHITE SANDS
 TABLE VIII. (CONT)

STATION ALTITUDE 3000.00 FEET MSL
 25 AUG. 70
 ASCENSION NO. 000
 0820 HRS MDT

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TI)	SPEED KNOTS	
4000.0	137.7	-64.7	230.1	562.5	150.7	11.3	1.000051	
4900.0	134.3	-65.6	225.4	561.2	154.8	12.0	1.000050	
4950.0	131.0	-66.6	220.8	559.9	158.5	11.5	1.000049	
5000.0	127.7	-67.5	216.4	558.7	162.1	11.1	1.000048	
5050.0	124.5	-68.2	211.7	557.7	171.0	10.1	1.000047	
5100.0	121.4	-69.0	207.2	556.7	184.3	9.3	1.000046	
5150.0	118.4	-69.7	202.7	555.7	199.3	9.0	1.000045	
5200.0	115.4	-70.4	198.3	554.7	200.3	6.5	1.000044	
5250.0	112.5	-70.9	193.8	554.0	202.0	4.0	1.000043	
5300.0	109.7	-70.9	188.9	554.0	198.8	1.0	1.000042	
5350.0	106.9	-70.9	184.1	554.0	35.8	3.0	1.000041	
5400.0	104.2	-70.9	179.5	554.0	33.0	6.9	1.000040	
5450.0	101.6	-70.1	174.3	553.1	27.0	8.5	1.000039	
5500.0	99.0	-69.2	169.2	556.3	21.4	9.7	1.000038	
5550.0	96.5	-69.1	164.6	556.5	18.1	10.3	1.000037	
5600.0	94.1	-68.9	160.5	556.8	18.9	9.9	1.000036	
5650.0	91.8	-67.8	155.7	558.2	15.7	9.4	1.000035	
5700.0	89.5	-66.7	151.0	559.8	30.6	9.5	1.000034	
5750.0	87.3	-65.7	146.8	561.1	48.2	10.3	1.000033	
5800.0	85.1	-66.0	143.2	560.7	57.0	10.9	1.000032	
5850.0	83.1	-65.7	139.5	561.1	65.6	11.3	1.000031	
5900.0	81.0	-65.1	135.7	561.9	73.4	11.6	1.000030	
5950.0	79.1	-64.5	132.0	562.6	81.8	10.8	1.000029	
6000.0	77.1	-63.5	128.4	563.7	90.9	10.3	1.000029	
6050.0	75.2	-63.2	124.8	564.5	99.0	11.8	1.000028	
6100.0	73.4	-62.5	121.4	565.4	104.7	13.9	1.000027	
6150.0	71.6	-61.9	118.1	566.2	107.5	15.1	1.000026	
6200.0	69.9	-61.3	114.9	567.1	107.5	15.2	1.000026	
6250.0	68.2	-61.0	112.0	567.4	107.7	15.3	1.000025	
6300.0	66.6	-60.7	109.2	567.8	102.2	14.7	1.000024	

STATION ALTITUDE 3989.00 FEET MSL
 15 AUG. 78
 ASCENSION NO. 550
 0820 HRS MDT

UPPER AIR DATA
 2370020550
 WHITE SANDS
 TABLE VIII. (CONT)

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
6500.0	65.0	-60.4		106.4	568.2	90.2	14.3	1.000024
6400.0	65.4	-60.1		103.7	568.0	92.9	14.9	1.000023
6300.0	61.9	-59.9		101.1	569.0	92.2	16.2	1.000023
6200.0	60.4	-59.6		98.5	569.3	91.6	17.6	1.000022
6100.0	59.0	-59.3		96.0	569.7	91.0	18.4	1.000021
6000.0	57.5	-59.1		93.7	570.0	91.6	19.2	1.000021
5950.0	56.2	-59.2		91.4	569.9	90.1	18.9	1.000020
5900.0	54.8	-59.2		89.3	569.8	87.2	17.7	1.000020
5850.0	53.5	-59.3		87.2	569.8	84.0	16.7	1.000019
5800.0	52.2	-59.3		85.1	569.7	84.0	16.3	1.000019
5750.0	51.0	-59.4		83.1	569.8	84.0	15.9	1.000019
5700.0	49.8	-59.3		81.1	569.7	85.0	16.6	1.000018
5650.0	48.6	-58.9		79.1	570.2	87.0	16.8	1.000018
5600.0	47.5	-58.6		77.1	570.7	88.6	21.1	1.000017
5550.0	46.4	-58.2		75.1	571.2	88.6	22.1	1.000017
5500.0	45.3	-57.8		73.2	571.7	88.3	22.9	1.000016
5450.0	44.2	-57.4		71.4	572.3	87.7	23.4	1.000016
5400.0	43.2	-57.0		69.8	572.8	85.7	22.9	1.000015
5350.0	42.2	-56.6		67.9	573.3	83.6	22.5	1.000015
5300.0	41.2	-56.2		66.1	573.8	79.6	23.2	1.000015
5250.0	40.2	-55.8		64.5	574.3	75.3	24.6	1.000014
5200.0	39.3	-55.4		62.9	574.8	72.0	26.4	1.000014
5150.0	38.4	-55.0		61.3	575.3	72.3	28.7	1.000014
5100.0	37.5	-54.7		59.7	575.9	72.0	30.9	1.000013
5050.0	36.6	-54.3		58.2	576.4	70.6	31.6	1.000013
5000.0	35.7	-53.9		56.8	576.9	81.5	32.4	1.000013
4950.0	34.9	-53.5		55.3	577.4	80.2	33.3	1.000012
4900.0	34.1	-53.1		54.0	577.9	90.6	34.2	1.000012
4850.0	33.3	-52.7		52.8	578.4	94.7	35.2	1.000012
4800.0	32.5	-52.3		51.3	578.9	97.4	36.1	1.000011

STATION ALTITUDE 3489.00 FEET MSL
 25 AUG. 78 0820 HRS MDT
 ASCENSION NO. 550

UPPLR AIR DATA
 2J70020550
 WHITE SANDS
 TABLE VIII. (CONT)

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
78500.0	31.7	-51.9		50.0	579.4	100.0	37.2	1.000011	
79000.0	31.0	-51.5		46.7	580.0	102.2	37.5	1.000011	
79500.0	30.3	-51.1		47.5	580.5	104.5	37.8	1.000011	
80000.0	29.6	-50.8		48.3	580.9	105.6	37.3	1.000010	
80500.0	28.9	-50.5		45.2	581.3	106.7	36.2	1.000010	
81000.0	28.2	-50.2		44.1	581.8	107.7	34.9	1.000010	
81500.0	27.6	-49.8		43.0	582.2	109.0	32.9	1.000010	
82000.0	27.0	-49.5		42.0	582.6	111.7	31.9	1.000009	
82500.0	26.3	-49.2		41.0	583.0			1.000009	

STATION ALTITUDE 3989.00 FEET MSL
 25 AUG. 78
 ASCENSION NO. 550

MANDATORY LEVELS
 2370020550
 WHITE SANDS
 TABLE IX.

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5065.	17.0	16.2	95.	184.2	2.6
800.0	6759.	14.0	11.6	80.	208.1	4.6
750.0	8541.	11.0	8.0	82.	245.4	2.2
700.0	10425.	8.4	5.5	82.	357.5	1.3
650.0	12427.	4.6	3.9	95.	6.1	6.2
600.0	14559.	1.2	.3	94.	62.6	2.5
550.0	16840.	-2.5	-3.7	92.	100.1	7.2
500.0	19314.	-5.6	-10.9	68.	168.7	3.3
450.0	22001.	-10.7	-28.4	22.	246.9	2.9
400.0	24934.	-15.0	-26.7	46.	229.0	10.9
350.0	28174.	-24.2	-28.5	67.	206.0	17.9
300.0	31801.	-32.7	-37.6	60.	199.4	28.1
250.0	35922.	-43.1	-49.0	48.	202.4	35.9
200.0	40727.	-55.0			220.1	44.1
175.0	43492.	-59.9			242.8	34.7
150.0	46030.	-62.3			225.2	10.9
125.0	50283.	-68.1			168.7	10.3
100.0	54635.	-69.3			23.7	9.2
80.0	59053.	-64.8			70.9	11.2
70.0	61749.	-61.3			107.5	15.2
60.0	64901.	-59.5			51.0	17.7
50.0	68049.	-59.4			64.3	10.0
40.0	73272.	-55.7			75.1	24.7
30.0	79348.	-51.0			105.1	38.0

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

STATION ALTITUDE 4940.00 FEET MSL
 25 AUG. 78
 ASCENSION NO. 172 0930 HRS MDT

SIGNIFICANT LEVEL DATA
 2570040192
 STALLION
 TABLE X.

GEODETIC COORDINATES
 33.81920 LAT DFG
 106.66501 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
854.3	4940.0	21.5	66.0
850.0	5023.4	18.6	69.0
820.8	6007.1	16.0	85.0
766.3	7900.0	12.8	79.0
736.3	9022.3	11.8	58.0
700.0	10407.3	9.0	63.0
619.3	13701.1	1.5	76.0
516.8	18491.1	-6.0	47.0
500.0	19339.8	-7.7	53.0
446.8	22185.2	-14.0	40.0
429.5	23108.5	-15.8	57.0
400.0	24922.9	-19.1	35.0
375.3	26471.2	-23.3	49.0
366.2	27001.0	-24.7	70.0
350.3	28122.9	-25.5	68.0
331.8	29413.3	-27.6	36.0
316.8	30334.5	-30.3	26.0
300.0	31708.0	-33.7	48.0
276.8	33445.8	-37.9	37.0
250.0	35607.5	-44.1	47.0
200.0	40697.7	-55.4	47.0
171.3	43930.3	-58.5	
167.3	44420.3	-58.2	
157.3	45608.1	-62.0	
150.0	46000.2	-60.6	
124.3	50433.1	-70.0	
100.0	54724.9	-67.9	
89.8	56837.0	-68.3	
75.6	60274.2	-60.9	
70.0	61905.7	-61.5	

STATION ALTITUDE 4940.00 FEET MSL
 25 AUG. 78
 ASCENSION NO. 192

SIGNIFICANT LEVEL DATA
 2570040192
 STATION
 TABLE X. (CONT)

GEOGRAPHIC COORDINATES
 33.81920 LAT DEG
 106.66501 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	DEWPOINT PERCENT	REL. HUM. PERCENT
50.0	68857.3	-58.9		
44.3	7348.3	-58.7		
39.3	75854.8	-55.2		
35.8	75819.2	-56.1		
30.0	79574.2	-51.5		
20.0	86327.0	-49.3		
13.3	97351.3	-41.9		
10.8	102044.6	-41.9		

STATION ALTITUDE 4940.0 FEET MSL
 25 AUG. 78 0930 HRS MDT
 ASCENSION NO. 172

UPPER AIR DATA
 2370040192
 STALLION
 TABLE XI.

GEOCENTRIC COORDINATES
 33.81920 LAT DEG
 106.66501 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC MLTER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
4940.0	834.3	21.5	66.0	1002.5	671.2	200.0	8.0	1.000297
5000.0	832.5	20.4	67.3	1004.6	669.8	199.3	8.0	1.000295
5500.0	837.5	17.6	75.8	990.5	660.0	193.9	8.6	1.000291
6000.0	822.6	16.2	83.9	983.6	665.0	189.3	9.2	1.000289
6500.0	808.1	15.3	83.6	969.4	663.9	194.5	9.8	1.000282
7000.0	793.8	14.4	82.1	955.3	662.6	205.0	10.4	1.000275
7500.0	779.6	13.6	80.5	941.4	661.7	211.6	9.0	1.000268
8000.0	765.7	12.8	78.6	927.6	660.7	222.7	6.5	1.000261
8500.0	752.0	12.3	69.1	913.1	659.9	253.9	3.9	1.000250
9000.0	738.5	11.9	59.6	898.8	659.1	307.8	4.9	1.000239
9500.0	725.2	11.0	59.5	885.6	658.0	329.3	8.1	1.000234
10000.0	712.0	9.9	61.3	872.7	650.8	334.0	9.9	1.000230
10500.0	699.1	8.9	63.1	860.1	655.6	337.4	11.1	1.000226
11000.0	686.3	7.8	65.1	847.8	654.2	340.5	11.6	1.000222
11500.0	673.6	6.6	67.1	835.6	652.9	343.6	12.1	1.000218
12000.0	661.2	5.5	69.0	823.7	651.5	347.1	12.2	1.000214
12500.0	649.0	4.4	71.0	811.9	650.1	352.6	11.2	1.000210
13000.0	637.1	3.2	73.0	800.3	648.7	2.2	10.1	1.000206
13500.0	625.3	2.1	75.0	788.9	647.4	15.6	9.3	1.000202
14000.0	613.7	1.1	74.5	777.1	646.2	28.4	9.5	1.000198
14500.0	602.0	.3	71.5	764.7	645.2	38.2	9.4	1.000193
15000.0	590.6	-.5	68.4	752.6	644.2	45.4	8.4	1.000188
15500.0	579.4	-1.3	65.3	740.7	643.1	44.8	7.0	1.000184
16000.0	568.5	-2.1	62.3	728.9	642.1	39.3	5.4	1.000179
16500.0	557.7	-2.8	59.2	717.3	641.1	21.0	5.3	1.000175
17000.0	547.1	-3.6	56.1	705.9	640.1	8.4	5.6	1.000171
17500.0	536.6	-4.4	53.1	694.7	639.2	9.6	5.7	1.000167
18000.0	526.0	-5.2	50.0	683.7	638.2	9.7	5.5	1.000163
18500.0	515.6	-6.0	47.1	672.8	637.2	12.2	4.8	1.000160
19000.0	505.7	-7.0	50.6	662.3	636.0	2.7	4.3	1.000157

STATION ALTITUDE 4940.00 FEET MSL
 25 AUG. 75
 ASCENSION NO. 192

UPPER AIR DATA
 2570040192
 STATION
 TABLE XI. (CONT)

GEODETIC COORDINATES
 33.81920 LAT DFG
 106.06501 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA		INFLX OF REFRACTION
		AIR DEGREES CENTIGRADE	WETBPOINT CENTIGRADE					SPEED KNOTS	ANGLE	
19500.0	490.5	-8.1	-16.1	52.3	652.0	634.7	343.9	4.1	1.000155	
20000.0	457.1	-9.2	-17.6	50.0	642.1	633.4	335.0	4.5	1.000151	
20500.0	427.6	-10.3	-19.2	47.7	632.2	632.0	329.5	5.0	1.000148	
21000.0	400.2	-11.4	-20.8	45.4	622.5	630.8	329.5	5.0	1.000145	
21500.0	379.1	-12.5	-22.4	43.1	613.0	629.2	323.6	4.1	1.000142	
22000.0	359.1	-13.6	-24.0	40.8	603.8	627.9	238.9	2.2	1.000139	
22500.0	341.2	-14.6	-23.7	45.4	593.9	626.7	201.6	4.2	1.000137	
23000.0	322.4	-15.5	-22.8	54.1	584.1	625.8	195.4	5.4	1.000136	
23500.0	305.8	-16.4	-23.5	52.8	574.5	624.5	210.8	5.3	1.000133	
24000.0	293.3	-17.4	-25.0	46.6	565.2	623.3	240.8	6.1	1.000130	
24500.0	280.9	-18.3	-23.4	40.3	555.9	622.1	236.4	8.0	1.000127	
25000.0	268.7	-19.3	-30.8	35.7	547.0	620.8	233.4	9.8	1.000125	
25500.0	258.0	-20.7	-30.0	40.2	538.7	619.2	227.9	10.2	1.000123	
26000.0	252.7	-22.0	-30.7	44.7	530.8	617.5	222.5	11.0	1.000121	
26500.0	244.9	-23.4	-30.8	50.0	522.6	615.9	216.8	13.0	1.000119	
27000.0	237.1	-24.8	-28.8	67.8	514.2	614.4	210.9	15.5	1.000118	
27500.0	229.5	-25.0	-29.0	69.2	504.5	613.8	204.5	19.0	1.000116	
28000.0	222.1	-25.4	-29.5	68.2	494.8	613.4	203.4	21.7	1.000113	
28500.0	214.8	-26.1	-31.8	58.6	486.0	612.5	205.0	23.7	1.000111	
29000.0	207.6	-26.9	-34.9	46.2	477.5	611.4	210.8	25.4	1.000108	
29500.0	200.6	-27.8	-38.5	35.1	469.4	610.2	217.0	27.2	1.000106	
30000.0	193.6	-29.3	-41.3	29.2	462.2	608.4	217.1	28.8	1.000104	
30500.0	186.8	-30.7	-43.0	23.3	455.0	606.7	216.5	30.3	1.000102	
31000.0	180.1	-31.9	-41.9	36.0	447.6	605.2	209.7	32.1	1.000101	
31500.0	173.5	-33.1	-41.1	43.8	440.2	603.7	204.7	34.1	1.000099	
32000.0	167.0	-34.5	-41.7	46.5	433.0	602.2	204.0	35.8	1.000097	
32500.0	160.6	-35.5	-43.5	43.9	425.9	600.8	204.1	37.2	1.000096	
33000.0	154.3	-36.8	-45.4	39.9	418.9	599.0	206.0	38.0	1.000094	
33500.0	148.1	-38.0	-47.2	37.2	412.1	597.4	207.1	39.1	1.000092	
34000.0	142.0	-39.3	-47.9	39.5	405.1	595.8	205.7	41.1	1.000091	

UPPER AIR DATA
 2570040192
 STATION ALTIMETER 4940.00 FLEET MSL
 25 AUG. 78 0930 HRS MDT
 ASCENSION NO. 192

GEODETIC COORDINATES
 33.81920 LAT DFG
 106.66501 LON DEG

TABLE XI. (CONT)

GEOMETRIC ALTIMETER MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
34500.0	200.0	-40.6	41.3	398.4	594.4	204.7	43.2	1.000089
35000.0	200.1	-41.6	43.4	391.7	592.5	204.4	45.1	1.000088
35500.0	204.4	-43.1	45.4	385.2	590.9	204.5	46.9	1.000086
36000.0	246.7	-44.4	45.9**	378.7	589.5	206.2	46.2	1.000085
36500.0	243.0	-45.5	41.0**	371.9	587.8	207.7	49.4	1.000083
37000.0	237.4	-46.7	36.1**	365.5	586.2	208.9	50.3	1.000082
37500.0	232.0	-47.9	31.2**	358.7	584.7	210.1	50.9	1.000080
38000.0	228.7	-49.1	26.4**	352.4	583.2	211.5	50.5	1.000079
38500.0	221.5	-50.2	21.5**	346.1	581.7	213.3	50.2	1.000077
39000.0	218.4	-51.4	16.6**	340.0	580.1	215.8	50.3	1.000076
39500.0	211.4	-52.6	11.7**	333.9	578.6	218.4	50.3	1.000074
40000.0	206.6	-53.8	6.8**	328.0	577.0	221.0	49.9	1.000073
40500.0	201.8	-54.9	1.9**	322.2	575.5	224.7	49.7	1.000072
41000.0	197.1	-55.7		315.8	574.5	228.1	49.4	1.000070
41500.0	192.5	-56.2		309.0	573.9	231.5	49.2	1.000069
42000.0	187.9	-56.6		302.3	573.2	234.9	47.7	1.000067
42500.0	183.5	-57.1		295.8	572.6	238.6	46.2	1.000066
43000.0	179.1	-57.6		289.5	572.0	240.4	41.4	1.000064
43500.0	174.9	-58.1		283.5	571.5	241.6	35.1	1.000063
44000.0	170.7	-58.5		277.0	570.8	240.0	29.6	1.000062
44500.0	166.7	-58.4		270.4	570.9	233.6	25.1	1.000060
45000.0	162.7	-59.9		263.6	568.9	226.8	21.8	1.000059
45500.0	158.7	-61.4		261.2	568.9	223.5	20.3	1.000058
46000.0	154.9	-61.6		255.1	567.7	218.6	18.7	1.000057
46500.0	151.2	-60.8		248.0	567.7	208.1	16.9	1.000055
47000.0	147.5	-61.4		242.7	566.8	195.4	15.7	1.000054
47500.0	143.9	-62.7		238.1	565.2	186.7	17.3	1.000053
48000.0	140.3	-63.9		233.6	563.5	180.2	19.4	1.000052
48500.0	136.9	-65.2		229.3	561.8	181.0	20.2	1.000051
49000.0	133.5	-66.4		223.0	560.1	180.2	20.1	1.000050

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

UPPER AIR DATA
 2370040192
 STALLION (CONT)
 TABLE XI.

STATION ALTITUDE 4940.00 FEET MSL
 25 AUG. 78
 ASCENSION NO. 192

GEODETIC COORDINATES
 33.81920 LAT DEG
 106.66501 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
49500.0	130.2	-67.7		220.8	558.4	191.4	20.2	1.000049
50000.0	127.0	-68.9		216.0	550.7	198.0	18.1	1.000048
50500.0	123.9	-70.0		212.4	555.3	206.2	16.3	1.000047
51000.0	120.8	-69.7		208.8	555.0	212.1	13.6	1.000046
51500.0	117.8	-69.5		201.4	550.0	213.9	9.3	1.000045
52000.0	114.8	-69.2		196.1	550.3	217.3	5.1	1.000044
52500.0	111.9	-69.0		191.0	556.7	207.8	1.3	1.000043
53000.0	109.1	-68.7		186.0	557.0	46.2	2.7	1.000041
53500.0	106.4	-68.5		181.1	557.3	33.8	2.9	1.000040
54000.0	103.7	-68.3		176.4	557.7	15.7	2.6	1.000039
54500.0	101.1	-68.0		171.8	558.0	351.4	2.6	1.000038
55000.0	98.6	-68.0		167.4	558.1	329.0	3.3	1.000037
55500.0	96.2	-68.0		163.3	557.9	320.0	4.3	1.000036
56000.0	93.8	-68.1		159.3	557.8	.5	5.8	1.000035
56500.0	91.4	-68.2		155.4	557.7	18.6	8.8	1.000035
57000.0	89.2	-68.0		151.4	558.0	31.0	10.4	1.000034
57500.0	87.0	-68.9		146.9	559.5	43.9	11.0	1.000033
58000.0	84.9	-65.8		142.0	560.9	54.9	11.9	1.000032
58500.0	82.6	-64.7		136.4	562.4	67.2	10.7	1.000031
59000.0	80.7	-63.7		134.3	563.9	81.8	10.0	1.000030
59500.0	79.8	-62.6		130.3	565.3	92.7	10.7	1.000029
60000.0	78.8	-61.5		126.3	566.8	97.7	12.3	1.000028
60500.0	78.0	-61.0		123.1	567.5	101.5	14.0	1.000027
61000.0	77.2	-61.2		120.2	567.2	101.0	14.3	1.000027
61500.0	71.4	-61.4		117.4	567.0	99.9	14.4	1.000026
62000.0	69.7	-61.5		114.7	566.8	98.1	14.4	1.000026
62500.0	68.0	-61.3		111.8	567.1	93.6	14.1	1.000025
63000.0	66.4	-61.1		109.0	567.3	88.9	13.9	1.000024
63500.0	64.8	-60.9		106.3	567.0	88.4	13.7	1.000024
64000.0	63.2	-60.7		103.7	567.8	89.7	13.5	1.000023

UPPER AIR DATA
 2370040192
 STATION
 TABLE XI. (CONT)

STATION ALTITUDE 4940.00 FEET MSL
 25 AUG. 78
 ASCENSION NO. 192

STATION ALTITUDE 4940.00 FEET MSL
 25 AUG. 78
 ASCENSION NO. 192

GEODETIC COORDINATES
 33.81920 LAT DFG
 106.66501 LON DFG

TABLE XI. (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(TIN)	SPEED KNOTS	
04500.0	61.7	-60.5		101.1	568.1	92.0	13.1	1.000023
05000.0	60.2	-60.3		98.0	568.3	100.0	12.4	1.000022
05500.0	58.8	-60.2		96.2	568.6	109.4	11.9	1.000021
06000.0	57.4	-60.0		95.8	568.8	111.9	12.0	1.000021
06500.0	56.0	-59.8		91.4	569.1	112.8	12.3	1.000020
07000.0	54.7	-59.6		89.2	569.3	110.0	12.7	1.000020
07500.0	53.4	-59.4		87.0	569.6	102.6	13.3	1.000019
08000.0	52.1	-59.2		84.8	569.8	95.4	14.1	1.000019
08500.0	50.8	-59.0		82.7	570.1	92.6	14.6	1.000018
09000.0	49.6	-58.9		80.7	570.3	90.9	15.0	1.000018
09500.0	48.4	-58.8		78.7	570.3	89.6	15.4	1.000018
70000.0	47.3	-58.8		76.8	570.4	89.1	15.5	1.000017
70500.0	46.1	-58.8		75.0	570.4	88.5	15.6	1.000017
71000.0	45.1	-58.7		73.2	570.5	86.0	16.2	1.000016
71500.0	44.0	-58.5		71.4	570.8	82.0	17.2	1.000016
72000.0	42.9	-57.8		69.5	571.7	79.5	18.3	1.000015
72500.0	41.9	-57.1		67.0	572.6	78.2	21.1	1.000015
73000.0	40.9	-56.4		65.8	573.6	77.3	24.2	1.000015
73500.0	40.0	-55.7		64.0	574.5	76.0	27.3	1.000014
74000.0	39.0	-55.3		62.4	575.1	77.4	29.1	1.000014
74500.0	38.1	-55.5		61.0	574.8	78.1	30.8	1.000014
75000.0	37.2	-55.7		59.6	574.4	78.7	32.5	1.000013
75500.0	36.3	-56.0		58.3	574.1	79.2	32.7	1.000013
76000.0	35.5	-55.9		56.9	574.2	79.7	33.0	1.000013
76500.0	34.7	-55.3		55.4	575.1	80.8	33.2	1.000012
77000.0	33.9	-54.7		54.0	575.9	84.5	33.1	1.000012
77500.0	33.1	-54.0		52.6	576.7	88.1	33.2	1.000012
78000.0	32.3	-53.4		51.2	577.5	91.8	33.0	1.000011
78500.0	31.0	-52.8		49.9	578.3	95.7	32.1	1.000011
79000.0	30.8	-52.2		48.0	579.1	99.8	31.4	1.000011

UPPER AIR DATA
 237004019Z
 STALLION
 TABLE XI. (CONT)

STATION ALTITUDE 4940.00 FEET MSL
 25 AUG. 76
 ASCENSION 110. 192 0930 HRS MDT

GEODETIC COORDINATES
 33.81920 LAT DEG
 106.66501 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
79500.0	30.1	-51.0	47.3	579.9	102.3	30.5	1.000011	
80000.0	29.4	-51.4	46.2	580.1	102.8	29.1	1.000010	
80500.0	28.7	-51.3	45.1	580.3	103.4	27.7	1.000010	
81000.0	28.1	-51.1	44.1	580.5	103.7	27.1	1.000010	
81500.0	27.4	-51.0	43.0	580.6	104.0	26.9	1.000010	
82000.0	26.8	-50.9	42.0	580.8	104.2	26.8	1.000009	
82500.0	26.2	-50.8	41.0	581.0	103.5	26.4	1.000009	
83000.0	25.6	-50.6	40.1	581.1	102.6	26.1	1.000009	
83500.0	25.0	-50.5	39.1	581.3	101.7	25.7	1.000009	
84000.0	24.4	-50.4	38.2	581.5	95.5	24.6	1.000009	
84500.0	23.9	-50.3	37.3	581.6	88.7	23.9	1.000008	
85000.0	23.3	-50.1	36.4	581.8	81.9	23.9	1.000008	
85500.0	22.8	-50.0	35.6	581.9	77.2	26.5	1.000008	
86000.0	22.3	-49.9	34.8	582.1	73.4	29.3	1.000008	
86500.0	21.8	-49.8	33.9	582.3	71.4	31.7	1.000008	
87000.0	21.3	-49.6	33.1	582.4	72.3	33.0	1.000007	
87500.0	20.8	-49.5	32.4	582.6	73.0	34.3	1.000007	
88000.0	20.3	-49.4	31.6	582.8	73.9	35.3	1.000007	
88500.0	19.8	-49.2	30.9	583.1	75.1	35.6	1.000007	
89000.0	19.4	-48.7	30.1	583.6	76.2	35.9	1.000007	
89500.0	19.0	-48.3	29.4	584.1	77.3	36.2	1.000007	
90000.0	18.5	-47.9	28.7	584.7	78.9	36.9	1.000006	
90500.0	18.1	-47.5	28.0	585.2	80.4	37.6	1.000006	
91000.0	17.7	-47.1	27.3	585.7	81.9	38.4	1.000006	
91500.0	17.3	-46.7	26.6	586.3	83.6	39.3	1.000006	
92000.0	16.9	-46.3	26.0	586.8	85.5	40.2	1.000006	
92500.0	16.6	-45.9	25.4	587.3	87.4	41.2	1.000006	
93000.0	16.2	-45.5	24.8	587.9	89.2	42.2	1.000006	
93500.0	15.8	-45.0	24.2	588.4	91.5	41.7	1.000005	
94000.0	15.5	-44.6	23.6	588.9	94.0	41.2	1.000005	

STATION ALTITUDE 4740.00 FEET MSL
 25 AUG. 78 0930 HRS MDT
 ASCENSION NO. 172

MANDATORY LEVELS
 25700+0192
 STALLION
 TABLE XII.

GEODETTIC COORDINATES
 33.81920 LAT DEG
 106.66501 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5030.	13.8	13.0	69.	198.4	8.1
800.0	5780.	14.6	11.9	63.	201.3	10.2
750.0	6567.	12.3	6.5	66.	201.3	3.7
700.0	10455.	9.0	2.3	63.	337.1	11.0
650.0	12457.	4.5	-4.4	71.	352.2	11.3
600.0	14583.	.2	-4.4	71.	39.4	9.2
550.0	16857.	-3.4	-10.7	57.	8.3	5.6
500.0	19313.	-7.7	-15.5	53.	350.4	4.1
450.0	21973.	-13.6	-24.0	41.	239.2	2.2
400.0	24884.	-19.1	-30.7	35.	234.0	9.5
350.0	28093.	-25.5	-29.7	67.	203.9	22.2
300.0	31700.	-33.7	-40.9	48.	204.4	33.0
250.0	35812.	-44.1	-50.7	47.	205.8	47.8
200.0	40303.	-53.4			226.0	49.5
175.0	43360.	-58.1			241.0	35.5
150.0	46533.	-60.6			204.7	16.5
125.0	50183.	-63.7			202.8	17.0
100.0	54361.	-67.9			341.3	2.9
80.0	58984.	-63.3			66.5	10.0
70.0	61097.	-61.5			99.2	14.4
60.0	64643.	-60.3			101.3	12.3
50.0	68563.	-59.9			91.5	14.9
40.0	73197.	-55.7			76.7	27.0
30.0	79242.	-51.5			102.3	30.3
25.0	83134.	-50.5			101.7	23.7
20.0	87921.	-49.3			74.0	35.5
15.0	94121.	-44.1			97.1	40.7

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