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ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/G 4/2
12831D LANCE MISSILE NO. 3317, ROUND NO. 311 ESL.(U)
MAR 78

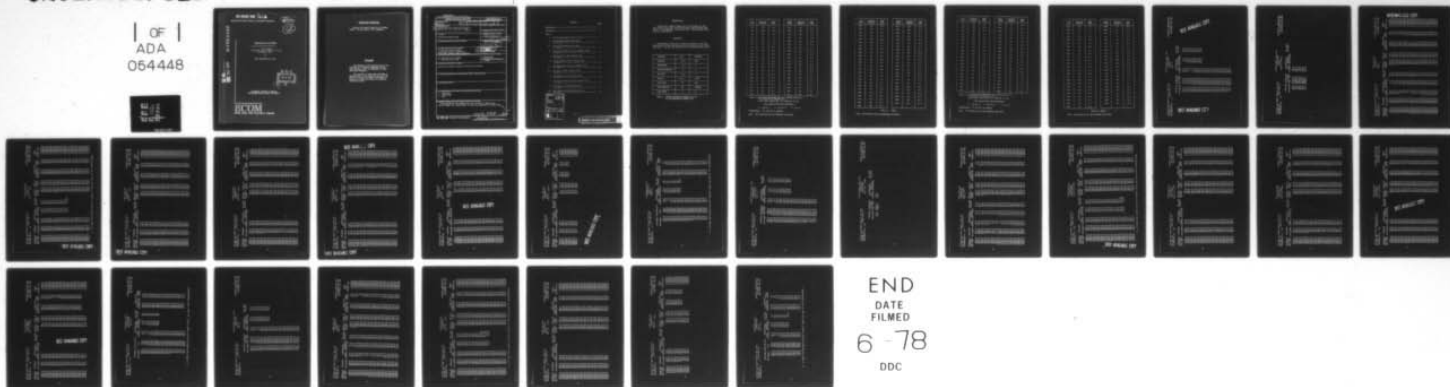
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METEOROLOGICAL DATA REPORT

12831D LANCE
MISSILE NO. 3317, ROUND NO. 311 ESL
(24 FEBRUARY 1978)

BY

WSMR METEOROLOGICAL TEAM

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ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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UNITED STATES ARMY ELECTRONICS COMMAND

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR-963	2. GOVT ACCESSION NO.	3. REPORT'S CATALOG NUMBER
4. TITLE (and Subtitle) 12831D Lance Missile No. 3317, Round No. 311 ESL.	5. TYPE OF REPORT & PERIOD COVERED	
7. AUTHOR(s) WSMR Meteorological Team	6. PERFORMING ORG. REPORT NUMBER	
9. PERFORMING ORGANIZATION NAME AND ADDRESS	8. CONTRACT OR GRANT NUMBER(s) DA Task 1T665702D127-02	
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Command Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 12 34P	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Command Ft. Monmouth, New Jersey	13. REPORT DATE Mar 78	
	14. NUMBER OF PAGES 37	
	15. SECURITY CLASS. (of this report) UNCLASSIFIED	
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) 1. Ballistics 2. Meteorology 3. Wind		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 12831D Lance, Missile Number 3317, Round Number 311 ESL, are presented in tabular form.		


ABSTRACT

ABSTRACT

400 844 AM

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INTRODUCTION

12831D Lance, Missile Number 3317, Round Number 311 ESL, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1506 HRS MST, 24 February 1978. The scheduled launch time was 1500 HRS MST.

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	FEET/MSL
PRESSURE	876.3	MBS
TEMPERATURE	18.3	°C
RELATIVE HUMIDITY	13	%
DEW POINT	-10.6	°C
DENSITY	1,044	GM/M ³
WIND SPEED	10	MPH
WIND DIRECTION	300	DEGREES
CLOUD COVER	2	Cu

TABLE I. SURFACE OBSERVATIONS TAKEN AT LC-33,
AT 1506 HRS MST/24 FEBRUARY 1978

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	270	11.0	2100	270	16.0
100	268	8.5	2200	269	14.0
200	265	6.0	2300	266	13.5
300	273	5.5	2400	262	13.0
400	280	5.0	2500	257	14.5
500	277	9.5	2600	252	16.0
600	273	13.5	2700	254	17.5
700	272	14.0	2800	256	18.5
800	271	14.0	2900	253	16.5
900	275	15.0	3000	249	14.5
1000	278	16.0	3100	249	16.5
1100	277	18.5	3200	248	18.0
1200	275	21.0	3300	247	19.5
1300	273	21.5	3400	246	20.5
1400	271	21.5	3500	251	21.5
1500	275	22.5	3600	255	22.0
1600	278	23.0	3700	254	22.5
1700	280	22.0	3800	253	22.5
1800	281	21.0	3900	258	27.0
1900	276	19.5	4000	263	31.0
2000	271	17.5	4100	263	28.5

TABLE II. PILOT-BALLOON-MEASURED WIND DATA, RELEASED FROM LC-33
AT 1450 HRS MST/24 FEBRUARY 1978
12831D LANCE, MISSILE NO. 3317, ROUND NO. 311 ESL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,037.24 Y = 182,350.16 Z = 3,977.3

APPROXIMATELY: 815 FEET SSE OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	262	26.0	6700	289	17.5
4300	262	25.5	6800	289	20.0
4400	262	24.5	6900	287	20.5
4500	264	23.5	7000	284	20.5
4600	265	22.5	7100	282	23.0
4700	269	22.0	7200	279	25.5
4800	272	21.5	7300	281	25.0
4900	273	21.0	7400	282	24.5
5000	274	21.5	7500	284	26.0
5100	277	20.5	7600	286	27.0
5200	280	20.0	7700	281	28.0
5300	279	20.0	7800	275	29.0
5400	278	20.0	7900	279	27.0
5500	280	19.0	8000	282	24.5
5600	281	17.5	8100	280	25.5
5700	287	17.5	8200	277	26.0
5800	293	17.0	8300	279	27.0
5900	286	17.0	8400	281	27.5
6000	279	16.5	8500	282	26.0
6100	278	16.5	8600	282	24.5
6200	276	16.5	8700	278	24.5
6300	278	15.5	8800	273	24.0
6400	280	14.5	8900	280	24.5
6500	285	15.0	9000	287	24.5
6600	289	15.0			

TABLE II. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	300	10.0	2100	241	12.5
100	301	10.0	2200	243	11.5
200	302	9.5	2300	242	11.5
300	290	7.5	2400	241	11.0
400	277	5.5	2500	241	11.0
500	261	6.0	2600	240	11.0
600	245	6.5	2700	245	12.5
700	229	6.5	2800	250	14.0
800	213	6.0	2900	250	13.5
900	226	7.0	3000	249	13.0
1000	239	8.0	3100	248	12.5
1100	237	9.0	3200	247	12.0
1200	235	10.0	3300	246	11.5
1300	238	11.5	3400	244	10.5
1400	240	13.0	3500	238	10.0
1500	237	14.0	3600	232	9.0
1600	234	14.5	3700	234	8.0
1700	231	14.0	3800	235	7.0
1800	228	13.5	3900	239	7.5
1900	233	13.5	4000	242	7.5
2000	238	13.5	4100	249	8.0

TABLE III. PILOT-BALLOON-MEASURED WIND DATA, RELEASED FROM LC-33
 AT 1506 HRS MST/24 FEBRUARY 1978
 12831D LANCE, MISSILE NO. 3317, ROUND NO. 311 ESL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,037.24 Y = 182,350.16 Z = 3,977.3

APPROXIMATELY: 815 FEET SSE OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	255	8.0	6700	272	18.5
4300	256	7.5	6800	272	18.5
4400	257	6.5	6900	274	18.0
4500	244	8.0	7000	276	17.5
4600	231	9.0	7100	278	19.0
4700	237	9.5	7200	280	20.5
4800	243	10.0	7300	281	19.5
4900	248	11.5	7400	281	18.5
5000	253	12.5	7500	284	19.0
5100	254	13.0	7600	286	19.0
5200	254	13.5	7700	286	22.0
5300	255	14.5	7800	285	24.5
5400	255	15.0	7900	290	23.5
5500	257	14.0	8000	295	22.0
5600	258	13.0	8100	293	22.5
5700	264	14.0	8200	290	22.5
5800	269	15.0	8300	290	21.0
5900	268	15.0	8400	290	19.5
6000	266	14.5	8500	292	21.5
6100	268	15.5	8600	293	23.0
6200	270	16.5	8700	295	24.0
6300	269	17.0	8800	297	24.5
6400	268	17.0	8900	299	25.0
6500	270	17.5	9000	300	25.0
6600	272	18.0			

TABLE III. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

STATION ALTITUDE 4051.00 FEET MSL
 24 FEB. 78
 ASCENSION NO. 44

SIGNIFICANT LEVEL DATA
 0550030044
 JALLEN
 TABLE IV.

GEODETIC COORDINATES
 33.16712 LAT NEG
 106.49511 LON NEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE	RFL. HUM. PERCENT
876.2	4051.0	20.8	1.6	28.0
865.7	4394.2	18.0	-8.2	16.0
850.0	4905.2	16.0	-9.8	16.0
817.8	5973.6	12.8	-10.9	18.0
718.4	9469.2	1.9	-18.1	21.0
700.0	10152.8	.0	-19.7	21.0
641.0	12436.6	-6.5	-21.9	28.0
605.8	13873.8	-10.0	-30.3	17.0
553.2	16156.5	-12.9	-31.1	20.0
500.0	18647.9	-20.1	-34.6	26.0
400.0	23905.8	-35.1	-44.8	36.0
363.6	26059.2	-40.6	-50.0	35.0
344.4	27262.0	-43.3		
306.2	29837.6	-46.0		
300.0	30283.4	-45.6		
293.4	30767.9	-46.3		
282.0	31631.3	-45.4		
271.0	32496.6	-47.1		
250.0	34243.1	-47.3		
238.2	35286.7	-48.5		
228.2	36210.0	-48.4		
223.2	36685.7	-49.6		
200.0	39034.9	-49.8		
150.0	45113.0	-55.2		
122.8	49225.1	-61.6		
109.0	51644.2	-60.5		
100.0	53391.8	-61.8		
82.6	57222.5	-65.4		
79.4	58010.7	-63.6		
70.0	60524.0	-65.4		

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STATION ALTITUDE 4051.00 FEET MSL
 24 FEB. 78
 ASCENSION NO. 44

SIGNIFICANT LEVEL DATA
 0550030044
 JALLEN
 TABLE IV. (CONT)

GEODETIC COORDINATES
 33.16712 LAT NEG
 106.49511 LON NEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
50.0	67184.0	-66.6	
48.5	67783.0	-67.9	
46.3	68695.3	-66.9	
44.2	69617.5	-63.3	
38.2	72530.4	-64.8	
30.0	77418.8	-57.6	
20.0	85790.4	-55.8	
17.9	88098.1	-54.1	
10.6	99260.3	-45.0	

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UPPER AIR DATA
0550030044
JALLEN
TABLE V.

STATION ALTITUDE 4051.00 FEET MSL
24 FEB. 78
ASCENSION NO. 44

GEODETIC COORDINATES
33.16712 LAT NEG
106.49511 LON NEG

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	876.2	20.8	1.6	28.0	1035.3	668.9	180.0	8.0	1.000261
4500.0	862.4	17.6	-8.5	16.0	1031.9	664.7	202.0	7.3	1.000244
5000.0	847.1	15.7	-9.9	16.2	1020.3	662.6	226.9	7.9	1.000240
5500.0	831.9	14.2	-10.4	17.1	1007.2	660.8	245.4	9.7	1.000237
6000.0	817.0	12.7	-10.9	18.0	994.4	659.1	257.0	11.0	1.000234
6500.0	802.0	11.2	-11.9	18.5	981.6	657.3	271.0	7.2	1.000230
7000.0	787.3	9.6	-12.9	18.9	968.9	655.4	301.2	5.0	1.000227
7500.0	772.8	8.0	-13.9	19.3	956.5	653.6	307.8	7.2	1.000223
8000.0	758.6	6.5	-15.0	19.7	944.2	651.8	311.4	9.4	1.000220
8500.0	744.7	4.9	-16.0	20.2	932.1	649.9	312.5	11.8	1.000216
9000.0	731.0	3.4	-17.1	20.6	920.2	648.1	309.7	14.9	1.000213
9500.0	717.6	1.8	-18.1	21.0	908.4	646.2	307.3	17.7	1.000210
10000.0	704.1	.4	-19.3	21.0	895.9	644.6	300.2	17.8	1.000206
10500.0	690.7	-1.0	-19.9	22.1	883.5	642.9	293.1	18.2	1.000203
11000.0	677.5	-2.4	-20.4	23.6	871.2	641.2	286.1	19.2	1.000200
11500.0	664.6	-3.8	-20.9	25.1	859.1	639.5	283.2	20.8	1.000197
12000.0	651.9	-5.3	-21.4	26.7	847.2	637.8	283.6	22.7	1.000195
12500.0	639.4	-6.7	-22.3	27.5	835.3	636.2	285.0	22.8	1.000192
13000.0	627.0	-7.9	-25.0	23.7	822.9	634.7	286.5	22.5	1.000188
13500.0	614.8	-9.1	-27.9	19.9	810.7	633.2	287.4	22.5	1.000184
14000.0	602.8	-10.2	-30.4	17.2	798.2	631.9	288.5	22.3	1.000180
14500.0	590.9	-10.8	-30.5	17.8	784.4	631.1	289.8	22.0	1.000177
15000.0	579.3	-11.4	-30.7	18.5	770.8	630.3	292.9	19.7	1.000174
15500.0	567.8	-12.1	-30.8	19.1	757.4	629.6	297.2	17.0	1.000171
16000.0	556.7	-12.7	-31.0	19.8	744.3	628.8	298.0	15.9	1.000168
16500.0	545.5	-13.9	-31.5	20.8	732.8	627.4	297.2	15.3	1.000166
17000.0	534.6	-15.3	-32.1	22.0	722.1	625.6	291.6	16.2	1.000163
17500.0	523.8	-16.8	-32.8	23.2	711.6	623.9	286.5	17.2	1.000161
18000.0	513.3	-18.2	-33.6	24.4	701.3	622.1	281.5	18.1	1.000158
18500.0	503.0	-19.7	-34.3	25.6	691.1	620.3	275.9	19.4	1.000156

STATION ALTITUDE 4051.00 FEET MSL
 24 FEB. 78 1330 HRS MST
 ASCENSION NO. 44

UPPER AIR DATA
 0550030044
 JALLEN (CONT)

GEODETIC COORDINATES
 33.16712 LAT NEG
 106.49511 LON NEG

TABLE V. (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
19000.0	492.6	-21.1	-35.2	26.7	680.7	618.6	269.3	21.1	1.000153
19500.0	482.2	-22.5	-36.1	27.6	670.2	616.8	264.4	23.4	1.000151
20000.0	472.1	-24.0	-37.0	28.6	659.9	615.0	260.9	26.0	1.000149
20500.0	462.2	-25.4	-38.0	29.5	649.7	613.3	258.5	27.8	1.000146
21000.0	452.5	-26.8	-38.9	30.5	639.8	611.5	256.8	28.9	1.000144
21500.0	443.0	-28.2	-39.9	31.4	630.0	609.7	255.6	30.0	1.000142
22000.0	433.7	-29.7	-40.9	32.4	620.4	607.9	255.0	31.3	1.000139
22500.0	424.6	-31.1	-41.9	33.3	611.0	606.2	255.0	32.5	1.000137
23000.0	415.7	-32.5	-42.9	34.3	601.7	604.4	256.3	33.3	1.000135
23500.0	406.9	-33.9	-44.0	35.2	592.6	602.6	257.4	34.1	1.000133
24000.0	398.3	-35.3	-45.0	36.0	583.5	600.8	258.1	34.3	1.000131
24500.0	389.6	-36.6	-46.2	35.7	573.8	599.2	258.6	34.7	1.000128
25000.0	381.1	-37.9	-47.5	35.5	564.2	597.6	257.6	35.6	1.000126
25500.0	372.7	-39.2	-48.7	35.3	554.9	595.9	256.7	36.4	1.000124
26000.0	364.6	-40.4	-49.9	35.0	545.7	594.3	256.8	36.6	1.000122
26500.0	356.4	-41.6	-54.7	22.2**	536.2	592.8	257.2	36.9	1.000120
27000.0	348.5	-42.7	-63.9	7.6**	526.8	591.4	259.2	37.7	1.000117
27500.0	340.7	-43.5			516.9	590.3	261.2	38.6	1.000115
28000.0	333.0	-44.1			506.4	589.6	263.2	39.7	1.000113
28500.0	325.5	-44.6			496.1	589.0	265.2	41.1	1.000110
29000.0	318.1	-45.1			486.0	588.3	267.1	42.9	1.000108
29500.0	311.0	-45.6			476.1	587.6	268.6	44.5	1.000106
30000.0	303.9	-45.9			465.8	587.3	269.9	45.6	1.000104
30500.0	297.0	-45.9			455.4	587.3	270.8	46.7	1.000101
31000.0	290.3	-46.1			445.3	587.1	270.8	47.9	1.000099
31500.0	283.7	-45.5			434.2	587.8	270.8	49.0	1.000097
32000.0	277.3	-46.1			425.4	587.0	270.6	49.4	1.000095
32500.0	271.0	-47.1			417.6	585.7	270.3	49.8	1.000093
33000.0	264.8	-47.2			408.1	585.7	270.9	45.5	1.000091
33500.0	258.7	-47.2			398.9	585.6	271.7	41.5	1.000089

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

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STATION ALTITUDE 4051.00 FEET MSL
 24 FEB. 78 1330 HRS MST
 ASCENSION NO. 44

UPPER AIR DATA
 0550030044
 JALLEN
 TABLE V, (CONT)

GEODETIC COORDINATES
 33.16712 LAT NEG
 106.49511 LON NEG

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
34000.0	252.8	-47.3		389.9	585.5	272.4	40.7	1.00000A7
34500.0	247.0	-47.6		381.6	585.1	273.0	40.2	1.00000A5
35000.0	241.4	-48.2		373.8	584.3	273.1	40.5	1.00000A3
35500.0	235.9	-48.5		365.7	583.9	273.2	40.8	1.00000A1
36000.0	230.4	-48.4		357.2	584.0	273.0	40.3	1.00000A0
36500.0	225.1	-49.1		350.1	583.1	272.8	39.8	1.000007A
37000.0	219.9	-49.6		342.8	582.4	272.9	40.9	1.0000076
37500.0	214.9	-49.7		334.9	582.4	273.0	42.3	1.0000075
38000.0	209.9	-49.7		327.3	582.3	273.1	42.6	1.0000073
38500.0	205.1	-49.8		319.8	582.3	273.1	42.4	1.0000071
39000.0	200.3	-49.8		312.4	582.2	272.6	42.6	1.0000070
39500.0	195.6	-50.2		305.7	581.7	271.7	43.1	1.0000068
40000.0	191.1	-50.7		299.2	581.1	270.8	44.0	1.0000067
40500.0	186.6	-51.1		292.8	580.5	269.9	45.5	1.0000065
41000.0	182.2	-51.5		286.5	579.9	269.0	47.7	1.0000064
41500.0	178.0	-52.0		280.3	579.4	268.3	51.1	1.0000062
42000.0	173.8	-52.4		274.3	578.8	267.8	54.1	1.0000061
42500.0	169.7	-52.9		268.5	578.2	267.4	56.0	1.0000060
43000.0	165.8	-53.3		262.7	577.6	267.0	57.9	1.0000059
43500.0	161.9	-53.8		257.1	577.0	266.8	58.3	1.0000057
44000.0	158.1	-54.2		251.6	576.4	266.6	57.5	1.0000056
44500.0	154.4	-54.7		246.2	575.9	266.4	56.8	1.0000055
45000.0	150.8	-55.1		240.9	575.3	267.1	56.4	1.0000054
45500.0	147.2	-55.8		235.9	574.3	267.9	56.1	1.0000053
46000.0	143.7	-56.6		231.1	573.3	268.8	56.3	1.0000051
46500.0	140.2	-57.4		226.4	572.3	269.8	56.7	1.0000050
47000.0	136.8	-58.1		221.7	571.3	270.5	57.3	1.0000049
47500.0	133.6	-58.9		217.2	570.2	270.5	58.3	1.0000048
48000.0	130.3	-59.7		212.7	569.2	270.5	59.3	1.0000047
48500.0	127.2	-60.5		208.4	568.1	270.1	58.7	1.0000046

STATION ALTITUDE 4051.00 FEET MSL
 24 FEB. 78 1330 HRS MST
 ASCENSION NO. 44

UPPER AIR DATA
 0550030044
 JALLEN
 TABLE V. (CONT)

GEODETIC COORDINATES
 33.16712 LAT NEG
 106.49511 LON NEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPFFD OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
49000.0	124.2	-61.2		204.1	567.1	269.5	57.8	1.000045
49500.0	121.1	-61.5		199.4	566.8	268.7	56.7	1.000044
50000.0	118.2	-61.2		194.3	567.1	267.5	55.5	1.000043
50500.0	115.3	-61.0		189.4	567.4	266.2	54.3	1.000042
51000.0	112.5	-60.8		184.6	567.7	265.4	53.1	1.000041
51500.0	109.8	-60.6		179.9	568.0	264.5	52.0	1.000040
52000.0	107.1	-60.8		175.7	567.8	264.0	51.2	1.000039
52500.0	104.5	-61.1		171.7	567.3	263.7	50.6	1.000038
53000.0	102.0	-61.5		167.8	566.8	263.3	50.1	1.000037
53500.0	99.5	-61.9		164.0	566.2	261.5	49.9	1.000037
54000.0	97.0	-62.4		160.3	565.6	259.8	49.7	1.000036
54500.0	94.6	-62.8		156.7	565.0	258.9	48.8	1.000035
55000.0	92.3	-63.3		153.2	564.3	258.6	47.5	1.000034
55500.0	90.0	-63.8		149.8	563.7	258.3	46.2	1.000033
56000.0	87.8	-64.3		146.4	563.1	259.6	45.0	1.000033
56500.0	85.6	-64.7		143.1	562.4	261.0	43.9	1.000032
57000.0	83.5	-65.2		139.9	561.8	262.2	42.6	1.000031
57500.0	81.5	-64.8		136.2	562.4	263.4	41.2	1.000030
58000.0	79.4	-63.6		132.1	562.9	264.7	39.6	1.000029
58500.0	77.5	-64.0		129.0	563.5	266.0	33.6	1.000029
59000.0	75.6	-64.3		126.0	563.0	268.0	27.7	1.000028
59500.0	73.7	-64.7		123.1	562.5	269.0	24.4	1.000027
60000.0	71.9	-65.0		120.3	562.0	269.0	23.0	1.000027
60500.0	70.1	-65.4		117.5	561.5	269.0	21.8	1.000026
61000.0	68.3	-65.5		114.6	561.4	269.0	22.1	1.000026
61500.0	66.6	-65.6		111.8	561.3	269.0	22.4	1.000025
62000.0	65.0	-65.7		109.1	561.2	269.0	21.9	1.000024
62500.0	63.3	-65.8		106.4	561.0	269.0	20.8	1.000024
63000.0	61.8	-65.8		103.8	560.9	269.0	19.7	1.000023
63500.0	60.2	-65.9		101.3	560.8	272.8	19.1	1.000023

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STATION ALTITUDE 4051.00 FEET MSL
24 FEB. 78 1330 HRS MST
ASCENSION NO. 44

UPPER AIR DATA
0550030044
JALLEN
TABLE V. (CONT)

GEODETIC COORDINATES
33.16712 LAT NEG
106.49511 LON NEG

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 DEGREES CENTIGRADE				DIRECTION DEGREES (TN)	SPEED KNOTS	
64000.0	58.7	-66.0		98.8	560.7	277.0	277.0	18.7	1.000022
64500.0	57.3	-66.1		96.3	560.6	281.7	281.7	17.7	1.000021
65000.0	55.8	-66.2		94.0	560.4	287.9	287.9	15.8	1.000021
65500.0	54.4	-66.3		91.7	560.3	295.6	295.6	14.2	1.000020
66000.0	53.1	-66.4		89.4	560.2	297.8	297.8	13.3	1.000020
66500.0	51.8	-66.5		87.2	560.1	296.2	296.2	12.8	1.000019
67000.0	50.5	-66.6		85.1	559.9	294.5	294.5	12.3	1.000019
67500.0	49.2	-67.3		83.3	559.0	293.9	293.9	11.3	1.000019
68000.0	48.0	-67.7		81.3	558.5	293.7	293.7	10.0	1.000018
68500.0	46.8	-67.1		79.1	559.2	293.4	293.4	8.7	1.000018
69000.0	45.6	-65.7		76.6	561.1	298.0	298.0	9.1	1.000017
69500.0	44.5	-63.8		74.0	563.7	303.1	303.1	10.0	1.000016
70000.0	43.4	-63.5		72.1	564.1	307.3	307.3	10.9	1.000016
70500.0	42.3	-63.8		70.4	563.7	305.2	305.2	11.0	1.000016
71000.0	41.2	-64.0		68.7	563.4	301.9	301.9	10.9	1.000015
71500.0	40.2	-64.3		67.1	563.0	298.5	298.5	10.9	1.000015
72000.0	39.2	-64.5		65.5	562.7	290.7	290.7	10.1	1.000015
72500.0	38.3	-64.8		64.0	562.4	281.1	281.1	9.5	1.000014
73000.0	37.3	-64.1		62.2	563.3	270.6	270.6	9.2	1.000014
73500.0	36.4	-63.4		60.5	564.3	273.3	273.3	9.3	1.000013
74000.0	35.5	-62.6		58.8	565.2	276.8	276.8	9.6	1.000013
74500.0	34.7	-61.9		57.1	566.2	280.1	280.1	9.8	1.000013
75000.0	33.8	-61.2		55.6	567.2	283.6	283.6	9.8	1.000012
75500.0	33.0	-60.4		54.0	568.2	287.1	287.1	9.9	1.000012
76000.0	32.2	-59.7		52.5	569.2	290.5	290.5	10.0	1.000012
76500.0	31.4	-59.0		51.1	570.2	289.9	289.9	10.3	1.000011
77000.0	30.6	-58.2		49.6	571.1	289.3	289.3	10.7	1.000011
77500.0	29.9	-57.6		48.3	572.0	288.7	288.7	11.0	1.000011
78000.0	29.2	-57.5		47.1	572.1	287.8	287.8	11.6	1.000010
78500.0	28.5	-57.4		46.0	572.3	286.9	286.9	12.2	1.000010

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STATION ALTITUDE 4051.00 FEET MSL
 24 FEB. 78 1330 HRS MST
 ASCENSION NO. 44

UPPER AIR DATA
 0550030044
 JALLEN
 TABLE V. (CONT)

GEODETIC COORDINATES
 33.16712 LAT NEG
 106.49511 LON NEG

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	
79000.0	27.8	-57.3			44.8	572.4	286.2	12.8	1.000010
79500.0	27.1	-57.2			43.7	572.6	283.1	13.3	1.000010
80000.0	26.5	-57.0			42.7	572.7	280.2	13.8	1.000009
80500.0	25.8	-56.9			41.6	572.8	277.5	14.4	1.000009
81000.0	25.2	-56.8			40.6	573.0	275.2	14.4	1.000009
81500.0	24.6	-56.7			39.6	573.1	273.0	14.3	1.000009
82000.0	24.0	-56.6			38.7	573.3	270.7	14.3	1.000009
82500.0	23.5	-56.5			37.7	573.4	270.3	14.9	1.000008
83000.0	22.9	-56.4			36.8	573.6	270.3	15.6	1.000008
83500.0	22.3	-56.3			35.9	573.7	270.3	16.3	1.000008
84000.0	21.8	-56.2			35.0	573.8	267.9	18.5	1.000008
84500.0	21.3	-56.1			34.2	574.0	265.1	21.5	1.000008
85000.0	20.8	-56.0			33.3	574.1	263.0	24.6	1.000007
85500.0	20.3	-55.9			32.5	574.3	261.8	27.0	1.000007
86000.0	19.8	-55.6			31.7	574.6	261.0	28.7	1.000007
86500.0	19.3	-55.3			30.9	575.0	260.4	30.5	1.000007
87000.0	18.9	-54.9			30.1	575.5	260.8	31.5	1.000007
87500.0	18.4	-54.5			29.4	576.0	262.9	31.4	1.000007
88000.0	18.0	-54.2			28.6	576.5	264.9	31.4	1.000006
88500.0	17.6	-53.8			27.9	577.0	266.8	31.4	1.000006
89000.0	17.2	-53.4			27.2	577.6	267.9	31.4	1.000006
89500.0	16.8	-53.0			26.5	578.1	268.9	31.4	1.000006
90000.0	16.4	-52.5			25.9	578.6	269.9	31.4	1.000006
90500.0	16.0	-52.1			25.2	579.2	270.0	34.0	1.000006
91000.0	15.6	-51.7			24.6	579.7	270.0	36.7	1.000005
91500.0	15.3	-51.3			24.0	580.2	270.0	39.5	1.000005
92000.0	14.9	-50.9			23.4	580.8	270.0	42.3	1.000005
92500.0	14.6	-50.5			22.8	581.3	270.0	45.1	1.000005
93000.0	14.2	-50.1			22.2	581.8	270.0	47.9	1.000005
93500.0	13.9	-49.7			21.7	582.4	270.0	48.2	1.000005

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UPPER AIR DATA
 0550030044
 JALLEN
 TABLE V. (CONT)

STATION ALTITUDE 4051.00 FEET MSL
 24 FEB. 78 1330 HRS MST
 ASCENSION NO. 44

GEODETIC COORDINATES
 33.16712 LAT NEG
 106.49511 LON NEG

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	
94000.0	13.6	-49.3		21.1	582.9	270.0	45.5	1.000005	
94500.0	13.3	-48.9		20.6	583.4	270.0	42.9	1.000005	
95000.0	12.9	-48.5		20.1	583.9	270.0	41.6	1.000004	
95500.0	12.6	-48.1		19.6	584.5	270.0	45.0	1.000004	
96000.0	12.4	-47.7		19.1	585.0	270.0	48.5	1.000004	
96500.0	12.1	-47.3		18.6	585.5	270.0	51.9	1.000004	
97000.0	11.8	-46.8		18.1	586.1			1.000004	
97500.0	11.5	-46.4		17.7	586.6			1.000004	
98000.0	11.2	-46.0		17.2	587.1			1.000004	
98500.0	11.0	-45.6		16.8	587.6			1.000004	
99000.0	10.7	-45.2		16.4	588.2			1.000004	

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STATION ALTITUDE 4051.00 FEET MSL
 24 FEB. 78
 ASCENSION NO. 44

MANDATORY LEVFLS
 0550030044
 JALLEN
 TABLE VI.

GEODETTIC COORDINATES
 33.16712 LAT NEG
 106.49511 LON NEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		RFL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4904.	16.0	-9.8	16.	222.6	7.7
800.0	6576.	10.9	-12.1	19.	274.5	6.6
750.0	8323.	5.5	-15.6	20.	312.9	10.8
700.0	10153.	.0	-19.7	21.	297.9	17.9
650.0	12080.	-5.5	-21.5	27.	283.7	23.0
600.0	14120.	-10.3	-30.4	17.	288.8	22.3
550.0	16307.	-13.3	-31.2	20.	298.5	15.2
500.0	18657.	-20.1	-34.6	26.	273.5	20.0
450.0	21183.	-27.2	-39.2	31.	256.2	29.3
400.0	23923.	-35.1	-44.8	36.	258.0	34.3
350.0	26929.	-42.5	-61.4	10.**	259.1	37.6
300.0	30314.	-45.6			270.7	46.4
250.0	34285.	-47.3			272.9	40.2
200.0	39091.	-49.8			272.3	42.7
175.0	41941.	-52.3			267.8	54.2
150.0	45191.	-55.2			267.6	56.3
125.0	48959.	-61.0			269.4	57.6
100.0	53506.	-61.8			261.0	49.8
80.0	57996.	-63.9			265.0	37.7
70.0	60674.	-65.4			269.0	22.0
60.0	63748.	-65.9			276.5	18.7
50.0	67372.	-66.6			293.9	11.0
40.0	71830.	-64.3			289.3	10.0
30.0	77674.	-57.6			287.8	11.6
25.0	81458.	-56.8			271.8	14.3
20.0	86108.	-55.8			260.5	30.3
15.0	92181.	-51.0			270.0	45.6

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

STATION ALTITUDE 3989.00 FEET MSL
 24 FEB. 78 1450 HRS MST
 ASCENSION NO. 133

SIGNIFICANT LEVEL DATA
 0550020133
 WHITE SANDS
 TABLE VII.

GEODETIC COORDINATES
 32.40043 LAT NEG
 106.37033 LON NEG

PRESSURE GEOMETRIC ALTITUDE		TEMPERATURE		RFL. HUM. PFRCENT
MILLIBARS	MSL FEET	AIR DEGREES	DEWPOINT CENTIGRADE	
876.3	3989.0	20.8	-2.3	21.0
866.8	4300.4	18.6	-1.3	26.0
850.0	4848.5	16.5	-2.5	27.0
700.0	10120.8	1.4	-10.1	42.0
647.8	12145.8	-4.4	-11.4	58.0
590.8	14495.9	-11.3	-11.4	99.0
557.8	15932.4	-15.1	-15.2	99.0
526.3	17365.3	-18.2	-18.3	99.0
518.8	17715.0	-20.8	-30.8	40.0
500.0	18607.8	-21.6	-31.8	39.0
468.8	20155.3	-24.3	-34.0	40.0
400.0	23873.1	-33.8	-42.9	39.0
381.3	24967.6	-35.9	-44.8	39.0
320.8	28851.5	-41.6	-50.2	38.0
300.0	30335.5	-42.9		
283.8	31552.0	-46.2		
250.0	34301.8	-47.6		
219.3	37118.9	-49.9		
200.0	39087.3	-50.3		
150.0	45175.4	-54.0		
119.3	49879.8	-63.0		
112.3	51093.9	-63.6		
108.3	51824.8	-61.4		
100.0	53437.3	-62.1		
70.0	60561.9	-66.4		
60.3	63495.9	-68.3		
50.0	67177.2	-66.6		
46.3	68711.3	-61.9		
39.3	72014.2	-62.4		
30.0	77508.4	-57.6		

STATION ALTITUDE 3989.00 FEET MSL
 24 FEB. 78
 ASCENSION NO. 133

SIGNIFICANT LEVEL DATA
 0550020133
 WHITE SANDS
 TABLE VII. (CONT)

GEODETIC COORDINATES
 32.40043 LAT NEG
 106.37033 LON NEG

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	RFL.HUM. PERCENT
20.0 85928.7	-53.3	
14.8 92282.1	-50.3	

STATION ALTITUDE 3989.00 FEET MSL
 24 FEB. 78 1450 HRS MST
 ASCENSION NO. 133

UPPER AIR DATA
 0550020133
 WHITE SANDS
 TABLE VIII.

GEODETIC COORDINATES
 32.40043 LAT NEG
 106.37033 LON NEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPFED OF SOUND KNOTS	DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
3989.0	876.3	20.8	-2.3	21.0	1036.2	668.7	250.0	9.9	1.000254
4000.0	876.0	20.7	-2.3	21.2	1036.1	668.6	250.3	9.9	1.000254
4500.0	860.6	17.8	-1.7	26.4	1027.9	665.3	260.4	11.2	1.000253
5000.0	845.3	16.1	-2.7	27.4	1015.9	663.3	268.3	12.8	1.000249
5500.0	829.9	14.6	-3.3	28.9	1002.3	661.6	274.4	14.5	1.000245
6000.0	814.7	13.2	-3.8	30.3	989.0	659.9	276.0	14.6	1.000242
6500.0	799.8	11.8	-4.5	31.7	975.9	658.3	275.8	13.8	1.000238
7000.0	785.3	10.3	-5.2	33.1	963.0	656.6	269.7	13.8	1.000234
7500.0	770.9	8.9	-5.9	34.5	950.3	654.9	262.5	14.2	1.000231
8000.0	756.9	7.5	-6.6	36.0	937.8	653.2	257.6	15.0	1.000227
8500.0	743.1	6.0	-7.4	37.4	925.5	651.5	258.5	15.9	1.000223
9000.0	729.5	4.6	-8.2	38.8	913.4	649.8	262.8	15.7	1.000220
9500.0	716.2	3.2	-9.0	40.2	901.4	648.1	269.7	14.9	1.000216
10000.0	703.1	1.7	-9.9	41.7	889.7	646.4	274.8	14.8	1.000213
10500.0	689.9	.3	-10.2	45.0	877.5	644.7	277.5	14.9	1.000210
11000.0	676.8	-1.1	-10.5	48.9	865.4	643.0	276.7	15.5	1.000207
11500.0	664.0	-2.6	-10.8	52.9	853.5	641.3	276.9	16.0	1.000204
12000.0	651.4	-4.0	-11.3	56.8	841.8	639.6	277.5	16.5	1.000201
12500.0	638.9	-5.4	-11.1	64.2	830.1	637.9	278.9	16.5	1.000199
13000.0	626.5	-6.9	-10.9	72.9	818.4	636.2	280.2	16.4	1.000197
13500.0	614.3	-8.4	-10.9	81.6	806.9	634.4	281.7	16.0	1.000194
14000.0	602.4	-9.8	-11.1	90.3	795.7	632.7	281.3	16.5	1.000192
14500.0	590.7	-11.3	-11.4	99.0	784.6	630.9	279.2	18.3	1.000189
15000.0	579.0	-12.6	-12.8	99.0	773.1	629.3	280.3	18.7	1.000185
15500.0	567.5	-14.0	-14.1	99.0	761.7	627.6	282.8	18.5	1.000181
16000.0	556.3	-15.2	-15.4	99.0	750.4	626.0	283.1	18.4	1.000178
16500.0	545.1	-16.3	-16.4	99.0	738.5	624.7	280.3	18.3	1.000174
17000.0	534.2	-17.4	-17.5	99.0	726.8	623.3	274.7	19.3	1.000171
17500.0	523.4	-19.2	-22.3	76.3	717.5	621.1	264.3	24.4	1.000166
18000.0	512.7	-21.1	-31.1	39.7	708.3	618.7	258.6	27.7	1.000160

UPPER AIR DATA
 0550020133
 WHITE SANDS
 TABLE VIII.(CONT)

STATION ALTITUDE 3989.00 FEET MSL
 24 FEB. 78 1450 HRS MST
 ASCENSION NO. 133

GEODETIC COORDINATES
 32.40043 LAT NEG
 106.37033 LON NEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
18500.0	502.2	-21.5	-31.7	39.1	695.0	618.1	255.1	28.5	1.000157
19000.0	491.9	-22.3	-32.3	39.3	682.9	617.1	252.8	27.8	1.000155
19500.0	481.8	-23.2	-33.0	39.6	671.1	616.1	250.9	26.4	1.000152
20000.0	471.8	-24.0	-33.8	39.9	659.6	615.0	251.7	28.5	1.000149
20500.0	462.0	-25.2	-34.8	39.9	648.8	613.5	252.2	30.6	1.000146
21000.0	452.2	-26.5	-36.0	39.8	638.4	612.0	252.3	32.3	1.000144
21500.0	442.6	-27.7	-37.2	39.6	628.2	610.4	252.3	33.9	1.000141
22000.0	433.3	-29.0	-38.4	39.5	618.2	608.8	252.1	35.0	1.000139
22500.0	424.1	-30.3	-39.6	39.4	608.3	607.2	252.2	36.2	1.000137
23000.0	415.2	-31.6	-40.8	39.2	598.6	605.6	254.2	37.8	1.000134
23500.0	406.4	-32.8	-42.0	39.1	589.1	604.0	256.0	39.4	1.000132
24000.0	397.8	-34.0	-43.1	39.0	579.5	602.4	258.5	41.4	1.000130
24500.0	389.2	-35.0	-44.0	39.0	569.2	601.2	260.9	43.6	1.000128
25000.0	380.8	-35.9	-44.9	39.0	559.1	600.0	262.1	46.0	1.000125
25500.0	372.4	-36.7	-45.6	38.9	548.5	599.1	263.1	48.5	1.000123
26000.0	364.2	-37.4	-46.3	38.7	538.1	598.2	264.4	50.7	1.000120
26500.0	356.2	-38.1	-47.0	38.6	527.9	597.2	265.8	52.8	1.000118
27000.0	348.3	-38.9	-47.7	38.5	518.0	596.3	269.2	55.5	1.000116
27500.0	340.7	-39.6	-48.4	38.3	508.2	595.4	272.8	58.7	1.000114
28000.0	333.2	-40.4	-49.1	38.2	498.5	594.4	275.1	60.5	1.000112
28500.0	325.9	-41.1	-49.8	38.1	489.1	593.5	277.1	61.9	1.000109
29000.0	318.7	-41.7	-51.3	34.2**	479.7	592.7	278.4	62.8	1.000107
29500.0	311.5	-42.2	-55.5	21.4**	469.8	592.1	277.9	61.9	1.000105
30000.0	304.6	-42.6	-62.9	8.6**	460.2	591.5	277.3	61.0	1.000103
30500.0	297.8	-43.3			451.4	590.6	275.8	60.0	1.000101
31000.0	291.0	-44.7			443.8	588.8	274.1	58.9	1.000099
31500.0	284.5	-46.1			436.4	587.1	274.3	58.6	1.000097
32000.0	278.0	-46.4			427.2	586.6	275.3	58.5	1.000095
32500.0	271.7	-46.7			417.9	586.3	277.4	56.6	1.000093
33000.0	265.5	-46.9			408.8	585.9	280.1	54.3	1.000091

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

STATION ALTITUDE 3989.00 FEET MSL
 24 FEB. 78 1450 HRS MST
 ASCENSION NO. 133

UPPER AIR DATA
 0550020133
 WHITE SANDS
 TABLE VIII.(CONT)

GEODETIC COORDINATES
 32.40043 LAT NEG
 106.37033 LON NEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE			KNOTS	DEGREES(FN)	DIRECTION DEGREES(FN)	SPEED KNOTS	
33500.0	259.4	-47.2			399.9	585.6	281.7	51.7	1.0000A9	
34000.0	253.5	-47.4			391.3	585.3	283.1	49.1	1.0000A7	
34500.0	247.7	-47.8			382.9	584.9	284.6	47.7	1.0000A5	
35000.0	242.0	-48.2			374.7	584.3	286.1	46.7	1.0000A3	
35500.0	236.4	-48.6			366.8	583.8	287.6	45.3	1.0000A2	
36000.0	231.0	-49.0			359.0	583.3	288.9	43.5	1.0000A0	
36500.0	225.7	-49.4			351.4	582.7	288.1	42.5	1.000078	
37000.0	220.5	-49.8			343.9	582.2	283.8	42.8	1.000077	
37500.0	215.4	-50.0			336.3	582.0	279.7	43.3	1.000075	
38000.0	210.4	-50.1			328.6	581.9	276.1	44.3	1.000073	
38500.0	205.6	-50.2			321.2	581.7	272.8	45.5	1.000072	
39000.0	200.8	-50.3			313.9	581.6	272.8	45.1	1.000070	
39500.0	196.1	-50.6			307.0	581.2	272.7	44.9	1.0000A8	
40000.0	191.6	-50.9			300.2	580.8	271.4	49.0	1.0000A7	
40500.0	187.1	-51.2			293.6	580.4	270.3	53.1	1.0000A5	
41000.0	182.7	-51.5			287.1	580.1	270.3	55.6	1.0000A4	
41500.0	178.5	-51.8			280.8	579.7	270.3	58.2	1.0000A3	
42000.0	174.3	-52.1			274.6	579.3	270.3	58.3	1.0000A1	
42500.0	170.2	-52.4			268.6	578.9	270.2	57.7	1.0000A0	
43000.0	166.2	-52.7			262.7	578.5	269.0	57.8	1.000059	
43500.0	162.4	-53.0			256.9	578.1	266.7	58.6	1.000057	
44000.0	158.6	-53.3			251.2	577.7	264.6	59.3	1.000056	
44500.0	154.9	-53.6			245.7	577.3	263.1	59.7	1.000055	
45000.0	151.2	-53.9			240.3	576.9	262.2	60.3	1.000054	
45500.0	147.6	-54.6			235.4	575.9	264.0	61.5	1.000052	
46000.0	144.1	-55.6			230.7	574.6	265.8	62.8	1.000051	
46500.0	140.6	-56.5			226.2	573.4	267.8	63.5	1.000050	
47000.0	137.3	-57.5			221.7	572.1	269.9	64.4	1.000049	
47500.0	134.0	-58.4			217.3	570.8	270.1	63.4	1.000048	
48000.0	130.7	-59.4			213.1	569.6	269.8	61.9	1.000047	

UPPER AIR DATA
 0550020133
 WHITE SANDS
 TABLE VIII. (CONT)

STATION ALTITUDE 3989.00 FEET MSL
 24 FEB. 78
 ASCENSION NO. 133

GEODETIC COORDINATES
 32.40043 LAT NEG
 106.37033 LON NEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPFED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
48500.0	127.6	-60.4		208.9	568.3	269.0	60.1	1.000047
49000.0	124.5	-61.3		204.8	567.0	267.7	58.2	1.000046
49500.0	121.5	-62.3		200.8	565.7	266.9	55.7	1.000045
50000.0	118.6	-63.1		196.6	564.7	266.5	52.5	1.000044
50500.0	115.7	-63.3		192.0	564.3	266.1	49.7	1.000043
51000.0	112.8	-63.6		187.5	564.0	266.1	47.7	1.000042
51500.0	110.1	-62.4		181.9	565.6	266.0	46.0	1.000041
52000.0	107.4	-61.5		176.7	566.8	265.7	46.9	1.000039
52500.0	104.7	-61.7		172.6	566.5	265.5	47.8	1.000038
53000.0	102.2	-61.9		168.5	566.2	265.1	47.5	1.000038
53500.0	99.7	-62.1		164.6	565.9	264.6	47.0	1.000037
54000.0	97.2	-62.4		160.7	565.5	264.3	46.4	1.000036
54500.0	94.8	-62.7		157.0	565.1	264.2	45.8	1.000035
55000.0	92.5	-63.0		153.3	564.7	264.2	45.4	1.000034
55500.0	90.2	-63.3		149.8	564.3	264.4	45.3	1.000033
56000.0	88.0	-63.6		146.3	563.9	264.7	45.3	1.000033
56500.0	85.8	-63.9		142.8	563.5	264.5	43.4	1.000032
57000.0	83.7	-64.3		139.5	563.1	264.4	41.4	1.000031
57500.0	81.6	-64.6		136.3	562.7	264.7	38.9	1.000030
58000.0	79.6	-64.9		133.1	562.3	265.6	36.2	1.000030
58500.0	77.6	-65.2		130.0	561.9	266.7	33.1	1.000029
59000.0	75.7	-65.5		127.0	561.4	268.8	28.7	1.000028
59500.0	73.8	-65.8		124.0	561.0	271.7	24.3	1.000028
60000.0	72.0	-66.1		121.1	560.6	274.6	19.6	1.000027
60500.0	70.2	-66.4		118.3	560.2	278.8	14.9	1.000026
61000.0	68.5	-66.7		115.5	559.8	284.1	12.4	1.000026
61500.0	66.7	-67.0		112.8	559.3	284.7	14.9	1.000025
62000.0	65.1	-67.3		110.1	558.9	285.1	17.4	1.000025
62500.0	63.4	-67.7		107.5	558.5	284.1	22.6	1.000024
63000.0	61.8	-68.0		105.0	558.0	283.3	28.4	1.000023

UPPER AIR DATA
 0550020133
 WHITE SANDS
 TABLE VIII.(CONT)

STATION ALTITUDE 3989.00 FEET MSL
 24 FEB. 78 1450 HRS MST
 ASCENSION NO. 133

GEODETIC COORDINATES
 32.40043 LAT NEG
 106.37033 LON NEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPFDD OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
63500.0	60.3	-68.3	102.5	557.6	283.2	32.1	1.000023	
64000.0	58.8	-68.1	99.8	557.9	283.7	32.2	1.000022	
64500.0	57.3	-67.8	97.2	558.2	284.3	32.3	1.000022	
65000.0	55.9	-67.6	94.7	558.5	284.9	28.7	1.000021	
65500.0	54.5	-67.4	92.2	558.8	285.6	24.8	1.000021	
66000.0	53.1	-67.1	89.8	559.2	286.5	21.2	1.000020	
66500.0	51.8	-66.9	87.4	559.5	287.4	17.9	1.000019	
67000.0	50.5	-66.7	85.1	559.8	288.6	14.7	1.000019	
67500.0	49.2	-65.6	82.6	561.2	289.2	12.6	1.000018	
68000.0	48.0	-64.1	79.9	563.3	289.8	10.6	1.000018	
68500.0	46.8	-62.5	77.4	565.4	288.8	9.6	1.000017	
69000.0	45.6	-61.9	75.3	566.2	285.2	10.2	1.000017	
69500.0	44.5	-62.0	73.5	566.1	282.0	10.9	1.000016	
70000.0	43.4	-62.1	71.7	566.0	277.8	14.1	1.000016	
70500.0	42.4	-62.2	70.0	565.9	275.2	18.0	1.000016	
71000.0	41.3	-62.2	68.3	565.8	273.7	21.0	1.000015	
71500.0	40.3	-62.3	66.6	565.7	272.9	22.0	1.000015	
72000.0	39.3	-62.4	65.0	565.6	272.3	23.0	1.000014	
72500.0	38.4	-62.0	63.3	566.1	272.0	22.5	1.000014	
73000.0	37.4	-61.5	61.6	566.7	271.9	21.3	1.000014	
73500.0	36.5	-61.1	60.0	567.3	271.8	20.1	1.000013	
74000.0	35.6	-60.7	58.4	567.9	271.5	19.5	1.000013	
74500.0	34.8	-60.2	56.9	568.5	271.1	19.2	1.000013	
75000.0	33.9	-59.8	55.4	569.1	270.7	18.9	1.000012	
75500.0	33.1	-59.4	54.0	569.6	270.6	18.4	1.000012	
76000.0	32.3	-58.9	52.5	570.2	270.6	17.8	1.000012	
76500.0	31.5	-58.5	51.2	570.8	270.6	17.2	1.000011	
77000.0	30.8	-58.0	49.8	571.4	276.4	16.6	1.000011	
77500.0	30.0	-57.6	48.5	572.0	284.0	16.3	1.000011	
78000.0	29.3	-57.3	47.3	572.3	291.7	16.3	1.000011	

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UPPER AIR DATA
 0550020133
 WHITE SANDS
 TABLE VIII.(CONT)

STATION ALTITUDE 3989.00 FEET MSL
 24 FEB. 78
 ASCENSION NO. 133

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT DEGREES CENTIGRADE				DIRECTION DEGREES (TNF)	SPEED KNOTS	
78500.0	28.6	-57.1		46.1	572.6	294.4	15.6	1.000010	
79000.0	27.9	-56.8		45.0	573.0	296.0	14.7	1.000010	
79500.0	27.3	-56.6		43.8	573.3	297.9	13.7	1.000010	
80000.0	26.6	-56.3		42.8	573.7	291.4	12.4	1.000010	
80500.0	26.0	-56.1		41.7	574.0	280.8	11.3	1.000009	
81000.0	25.4	-55.8		40.6	574.3	268.5	10.7	1.000009	
81500.0	24.8	-55.6		39.6	574.7	265.5	8.8	1.000009	
82000.0	24.2	-55.3		38.6	575.0	265.6	6.5	1.000009	
82500.0	23.6	-55.1		37.7	575.3	265.8	4.2	1.000008	
83000.0	23.0	-54.8		36.7	575.7	271.0	5.9	1.000008	
83500.0	22.5	-54.5		35.8	576.0	273.8	9.0	1.000008	
84000.0	21.9	-54.3		34.9	576.3	275.1	12.2	1.000008	
84500.0	21.4	-54.0		34.1	576.7	273.5	18.9	1.000008	
85000.0	20.9	-53.8		33.2	577.0	272.3	27.0	1.000007	
85500.0	20.4	-53.5		32.4	577.4	271.6	35.1	1.000007	
86000.0	19.9	-53.3		31.6	577.7	271.3	39.3	1.000007	
86500.0	19.5	-53.0		30.8	578.0	271.1	39.7	1.000007	
87000.0	19.0	-52.8		30.1	578.3	271.0	40.2	1.000007	
87500.0	18.6	-52.6		29.3	578.6	270.7	39.9	1.000007	
88000.0	18.1	-52.3		28.6	578.9	269.6	37.7	1.000006	
88500.0	17.7	-52.1		27.9	579.2	268.4	35.4	1.000006	
89000.0	17.3	-51.8		27.2	579.5	267.1	33.2	1.000006	
89500.0	16.9	-51.6		26.6	579.9	265.6	31.5	1.000006	
90000.0	16.5	-51.4		25.9	580.2	264.0	29.9	1.000006	
90500.0	16.1	-51.1		25.3	580.5	262.2	28.3	1.000006	
91000.0	15.7	-50.9		24.7	580.8			1.000005	
91500.0	15.4	-50.7		24.0	581.1			1.000005	
92000.0	15.0	-50.4		23.5	581.4			1.000005	

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STATION ALTITUDE 3989.00 FEET MSL
 24 FEB. 78
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MANDATORY LEVELS
 0550020133
 WHITE SANDS
 TABLE IX.

GEODETTIC COORDINATES
 32.40043 LAT NEG
 106.37033 LON NEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		RFL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4847.	16.5	-2.5	27.	266.1	12.3
800.0	6525.	11.8	-4.5	32.	275.5	13.8
750.0	8280.	6.8	-7.0	37.	258.1	15.5
700.0	10121.	1.4	-10.1	42.	276.0	14.7
650.0	12059.	-4.1	-11.3	57.	277.7	16.5
600.0	14108.	-10.1	-11.2	92.	280.7	16.9
550.0	16286.	-15.9	-16.0	99.	281.4	18.3
500.0	18615.	-21.6	-31.8	39.	254.2	28.8
450.0	21139.	-26.7	-36.3	40.	252.3	32.9
400.0	23889.	-33.8	-42.9	39.	258.1	41.0
350.0	26927.	-38.7	-47.5	39.	268.9	55.3
300.0	30365.	-42.9			276.1	60.2
250.0	34341.	-47.6			284.3	47.9
200.0	39141.	-50.3			272.8	44.9
175.0	41990.	-52.0			270.3	58.2
150.0	45251.	-54.0			263.5	61.2
125.0	49028.	-61.2			267.4	57.6
100.0	53548.	-62.1			264.4	46.8
80.0	58045.	-64.8			266.0	35.0
70.0	60709.	-66.4			284.0	11.8
60.0	63757.	-68.3			283.7	32.2
50.0	67361.	-66.6			289.3	12.3
40.0	71871.	-62.3			272.1	23.2
30.0	77760.	-57.6			292.4	16.4
25.0	81553.	-55.7			265.5	7.1
20.0	86242.	-53.3			271.1	39.8
15.0	92360.	-50.4				

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

STATION ALTITUDE 4395.50 FEET MSL
 24 FEB. 78
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SIGNIFICANT LEVEL DATA
 0550230002
 SW 70
 TABLE X.

GEODETIC COORDINATES
 33.36888 LAT NEG
 106.40406 LON NEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	AIR TEMPERATURE DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT
863.8	4395.5	19.0	-10.0	13.0
850.0	4849.7	16.2	-8.8	17.0
802.3	6447.2	12.5	-11.9	17.0
700.0	10118.3	1.0	-17.8	23.0
627.3	12961.1	-7.8	-19.9	37.0
602.3	13994.7	-9.4	-29.8	17.0
568.8	15436.5	-12.2	-32.8	16.0
500.0	18614.9	-20.5	-34.5	27.0
420.3	22726.6	-32.3	-40.4	44.0
400.0	23863.6	-35.2	-44.9	36.0
382.3	24889.4	-38.5	-47.9	36.0
364.3	25968.8	-41.1	-50.5	35.0
320.8	28769.6	-45.8		
304.3	29919.7	-46.1		
300.0	30230.2	-45.1		
271.8	32388.4	-45.0		
256.8	33624.2	-47.0		
250.0	34203.5	-48.8		
246.3	34523.4	-49.6		
241.3	34962.7	-49.7		
234.9	35540.0	-48.3		
222.8	36672.9	-50.8		
205.8	38361.9	-51.2		
200.0	38970.9	-50.3		
174.8	41827.6	-53.0		
150.0	45037.9	-55.0		
126.3	48591.4	-59.5		
112.3	50983.5	-61.2		
100.0	53340.4	-60.3		
89.8	55520.2	-62.3		

STATION ALTITUDE 4395.50 FEET MSL
 24 FEB. 78 1450 HRS MST
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UPPER AIR DATA
 0550230002
 SW 70
 TABLE XI.

GEODETTIC COORDINATES
 33.36888 LAT NEG
 106.40406 LON NEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TNF)	SPEED KNOTS	INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE						
4395.5	863.8	19.0	-10.0	13.0	1028.7	666.3	170.0	5.1	1.000242
4500.0	860.6	18.4	-9.6	13.9	1027.1	665.6	170.2	4.8	1.000242
5000.0	845.4	15.9	-9.1	17.0	1017.7	662.7	171.7	3.7	1.000241
5500.0	830.2	14.7	-10.1	17.0	1003.5	661.4	174.4	2.6	1.000237
6000.0	815.4	13.5	-11.0	17.0	989.6	660.0	181.0	1.5	1.000233
6500.0	800.7	12.3	-11.9	17.1	976.0	658.6	212.8	.6	1.000229
7000.0	786.0	10.8	-12.6	17.9	963.3	656.8	315.1	.8	1.000225
7500.0	771.5	9.2	-13.4	18.7	950.9	655.0	332.3	1.9	1.000222
8000.0	757.3	7.6	-14.1	19.5	938.6	653.1	325.9	2.8	1.000219
8500.0	743.4	6.1	-15.0	20.4	926.6	651.3	319.6	3.8	1.000216
9000.0	729.7	4.5	-15.8	21.2	914.7	649.5	315.9	4.9	1.000213
9500.0	716.3	2.9	-16.7	22.0	903.0	647.6	313.9	5.1	1.000209
10000.0	703.1	1.4	-17.5	22.8	891.5	645.7	312.4	4.9	1.000206
10500.0	689.8	-.2	-17.8	24.9	879.6	643.9	310.6	4.7	1.000204
11000.0	676.6	-1.7	-18.1	27.3	867.7	642.1	308.8	4.6	1.000201
11500.0	663.7	-3.3	-18.4	29.8	856.0	640.3	306.9	4.5	1.000198
12000.0	651.0	-4.8	-18.8	32.3	844.5	638.4	305.1	4.5	1.000195
12500.0	638.6	-6.4	-19.4	34.7	833.2	636.6	305.4	6.7	1.000193
13000.0	626.3	-7.9	-20.2	36.2	821.9	634.8	305.6	9.1	1.000190
13500.0	614.1	-8.6	-20.4	26.6	808.4	633.8	305.6	11.3	1.000185
14000.0	602.2	-9.4	-20.9	17.0	795.1	632.8	305.3	13.3	1.000180
14500.0	590.3	-10.4	-30.9	16.6	782.4	631.6	305.6	14.7	1.000177
15000.0	578.7	-11.4	-31.9	16.3	769.9	630.4	307.5	14.7	1.000174
15500.0	567.3	-12.4	-32.8	16.2	757.7	629.2	309.3	14.8	1.000171
16000.0	555.9	-13.7	-32.8	18.0	746.2	627.6	310.8	14.6	1.000168
16500.0	544.8	-15.0	-33.0	19.7	734.9	626.0	312.1	14.3	1.000166
17000.0	533.8	-16.3	-33.2	21.4	723.8	624.5	313.5	14.1	1.000163
17500.0	523.1	-17.6	-33.6	23.1	712.9	622.9	310.3	14.8	1.000161
18000.0	512.6	-18.9	-34.0	24.9	702.2	621.3	307.2	15.6	1.000158
18500.0	502.3	-20.2	-34.4	26.6	691.7	619.7	302.0	15.6	1.000156

UPPER AIR DATA
 0550230002
 SW 70
 TABLE XI. (CONT)

STATION ALTITUDE 4395.50 FEET MSL
 24 FEB. 78 1450 HRS MST
 ASCENSION NO. 2

GEODETIC COORDINATES
 33.36888 LAT NEG
 106.40406 LON NEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
19000.0	491.9	-21.6	-34.9	28.6	681.1	618.0	296.9	15.8	1.000154
19500.0	481.7	-23.0	-35.5	30.7	670.7	616.2	291.0	16.0	1.000151
20000.0	471.6	-24.5	-36.1	32.7	660.5	614.4	285.3	16.3	1.000149
20500.0	461.7	-25.9	-36.8	34.8	650.5	612.6	280.2	17.0	1.000146
21000.0	452.1	-27.3	-37.6	36.9	640.6	610.8	275.8	17.9	1.000144
21500.0	442.6	-28.8	-38.3	38.9	630.9	609.1	271.9	18.8	1.000142
22000.0	433.4	-30.2	-39.1	41.0	621.4	607.3	268.9	19.6	1.000140
22500.0	424.3	-31.6	-40.0	43.1	612.0	605.5	266.1	20.4	1.000138
23000.0	415.3	-33.0	-41.4	42.1	602.4	603.8	267.0	20.8	1.000135
23500.0	406.4	-34.3	-43.4	38.6	592.6	602.2	269.4	21.0	1.000133
24000.0	397.6	-35.6	-45.3	36.0	583.1	600.4	272.1	21.1	1.000131
24500.0	388.9	-37.2	-46.8	36.0	574.3	598.4	275.3	20.9	1.000129
25000.0	380.4	-38.8	-48.2	35.9	565.4	596.5	278.0	21.1	1.000126
25500.0	372.0	-40.0	-49.4	35.4	555.7	594.9	277.8	22.6	1.000124
26000.0	363.8	-41.2	-50.6	34.6**	546.2	593.4	278.0	24.0	1.000122
26500.0	355.6	-42.0	-53.1	28.4**	535.9	592.3	281.7	24.6	1.000120
27000.0	347.6	-42.8	-55.8	22.1**	525.8	591.2	285.3	25.2	1.000117
27500.0	339.8	-43.7	-59.2	15.9**	515.9	590.2	287.0	25.1	1.000115
28000.0	332.2	-44.5	-63.6	9.6**	506.2	589.1	288.2	24.7	1.000113
28500.0	324.8	-45.3	-71.7	3.4**	496.6	588.0	287.9	25.2	1.000111
29000.0	317.4	-45.9			486.5	587.3	285.9	26.5	1.000108
29500.0	310.2	-46.0			475.7	587.2	284.4	27.8	1.000106
30000.0	303.2	-45.8			464.6	587.4	285.2	29.0	1.000103
30500.0	296.3	-45.1			452.6	588.3	285.9	30.3	1.000101
31000.0	289.6	-45.1			442.3	588.4	286.3	31.4	1.000099
31500.0	283.1	-45.0			432.3	588.4	286.3	32.2	1.000096
32000.0	276.7	-45.0			422.5	588.4	286.3	32.9	1.000094
32500.0	270.4	-45.2			413.2	588.2	285.7	33.8	1.000092
33000.0	264.3	-46.0			405.3	587.2	284.9	34.6	1.000090
33500.0	258.3	-46.8			397.5	586.1	284.2	35.5	1.000089

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

STATION ALTITUDE 4395.50 FEET MSL
 24 FEB. 78
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UPPER AIR DATA
 0550230002
 SW 70
 TABLE XI. (CONT)

GEODETIC COORDINATES
 33.36888 LAT NEG
 106.40406 LON NEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPFDD OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
34000.0	252.4	-48.2		390.8	584.3	284.1	36.3	1.0000A7
34500.0	246.6	-49.5		384.1	582.6	284.1	37.0	1.0000A6
35000.0	240.9	-49.6		375.4	582.5	284.8	36.8	1.0000A4
35500.0	235.3	-48.4		364.8	584.0	285.9	35.9	1.0000A1
36000.0	229.9	-49.3		357.8	582.9	286.8	34.9	1.0000A0
36500.0	224.6	-50.4		351.3	581.4	287.3	33.4	1.00007A
37000.0	219.4	-50.9		343.9	580.8	287.9	31.9	1.000077
37500.0	214.3	-51.0		336.1	580.7	282.9	32.2	1.000075
38000.0	209.3	-51.1		328.4	580.5	277.6	32.9	1.000073
38500.0	204.5	-51.0		320.6	580.7	272.9	34.3	1.000071
39000.0	199.7	-50.3		312.3	581.5	269.5	37.1	1.000070
39500.0	195.1	-50.8		305.6	580.9	266.8	40.2	1.0000A8
40000.0	190.5	-51.3		299.1	580.3	266.9	45.0	1.0000A7
40500.0	186.1	-51.7		292.8	579.7	267.1	49.7	1.0000A5
41000.0	181.8	-52.2		286.6	579.1	267.0	52.3	1.0000A4
41500.0	177.5	-52.7		280.5	578.4	266.8	54.6	1.0000A2
42000.0	173.4	-53.1		274.5	577.9	267.1	56.0	1.0000A1
42500.0	169.3	-53.4		268.4	577.5	267.8	56.5	1.0000A0
43000.0	165.3	-53.7		262.4	577.1	268.5	56.9	1.0000A8
43500.0	161.4	-54.0		256.6	576.7	268.8	59.5	1.0000A7
44000.0	157.6	-54.4		250.9	576.3	269.1	62.0	1.0000A6
44500.0	153.9	-54.7		245.4	575.8	269.0	62.9	1.0000A5
45000.0	150.3	-55.0		239.9	575.4	268.6	62.5	1.0000A3
45500.0	146.7	-55.6		234.9	574.6	268.4	61.8	1.0000A2
46000.0	143.2	-56.2		229.9	573.8	269.5	60.1	1.0000A1
46500.0	139.8	-56.9		225.1	573.0	270.7	58.4	1.0000A0
47000.0	136.4	-57.5		220.3	572.1	271.8	57.1	1.0000A9
47500.0	133.2	-58.1		215.7	571.3	272.9	56.0	1.0000A8
48000.0	130.0	-58.8		211.2	470.4	273.1	55.3	1.0000A7
48500.0	126.9	-59.4		206.7	569.6	272.0	55.4	1.0000A6

STATION ALTITUDE 4395.50 FEET MSL
 24 FEB. 78 1450 HRS MST
 ASCENSION NO. 2

UPPER AIR DATA
 0550230002
 SW 70
 TABLE XI. (CONT)

GEODETIC COORDINATES
 33.36888 LAT NEG
 106.40406 LON NEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
49000.0	123.8	-59.8		202.1	569.1	271.1	55.5	1.0000045
49500.0	120.8	-60.1		197.5	568.6	270.5	56.5	1.0000044
50000.0	117.9	-60.5		193.1	568.1	269.9	57.6	1.0000043
50500.0	115.0	-60.9		188.7	567.6	269.1	57.4	1.0000042
51000.0	112.2	-61.2		184.4	567.2	268.2	56.5	1.0000041
51500.0	109.5	-61.0		179.8	567.4	267.3	56.2	1.0000040
52000.0	106.8	-60.8		175.2	567.7	266.8	57.7	1.0000039
52500.0	104.2	-60.6		170.8	567.9	266.2	59.2	1.0000038
53000.0	101.7	-60.4		166.5	568.2	265.7	55.6	1.0000037
53500.0	99.2	-60.4		162.5	568.2	265.2	50.2	1.0000036
54000.0	96.8	-60.9		158.9	567.6			1.0000035
54500.0	94.4	-61.4		155.3	566.9			1.0000035
55000.0	92.1	-61.8		151.9	566.3			1.0000034
55500.0	89.9	-62.3		148.5	565.7			1.0000033

STATION ALTITUDE 4395.50 FEET MSL
 24 FEB. 78 1450 HRS MST
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MANDATORY LEVELS
 0550230002
 SW 70
 TABLE XII.

GEODETIC COORDINATES
 33.36888 LAT NEG
 106.40406 LON NEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		RFL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4849.	16.2	-8.8	17.	171.2	4.1
800.0	6525.	12.3	-12.0	17.	217.7	.5
750.0	8280.	6.8	-14.6	20.	321.9	3.4
700.0	10119.	1.0	-17.8	23.	312.0	4.8
650.0	12052.	-4.9	-18.9	32.	305.0	4.6
600.0	14095.	-9.6	-30.0	17.	305.3	13.7
550.0	16281.	-14.4	-32.9	19.	311.6	14.4
500.0	18624.	-20.5	-34.5	27.	300.6	15.7
450.0	21146.	-27.7	-37.7	37.	274.4	18.2
400.0	23881.	-35.2	-44.9	36.	271.5	21.1
350.0	26881.	-42.6	-55.0	24.**	284.7	25.1
300.0	30262.	-45.1			285.6	29.8
250.0	34246.	-48.8			284.1	36.7
200.0	39028.	-50.3			268.8	37.7
175.0	41870.	-53.0			267.0	56.0
150.0	45117.	-55.0			268.4	62.3
125.0	48897.	-59.6			271.1	55.5
100.0	53455.	-60.3			265.0	49.3

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