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ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/G 4/2
12811A LANCE MISSILE NUMBER 3206, ROUND NUMBER 284 ACT (23 JULY--ETC(U)
JUL 76

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METEOROLOGICAL DATA REPORT

12811A LANCE
MISSILE NO. 3206, ROUND NO. 284 ACT
(23 July 1976)

BY

WSMR METEOROLOGICAL TEAM

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ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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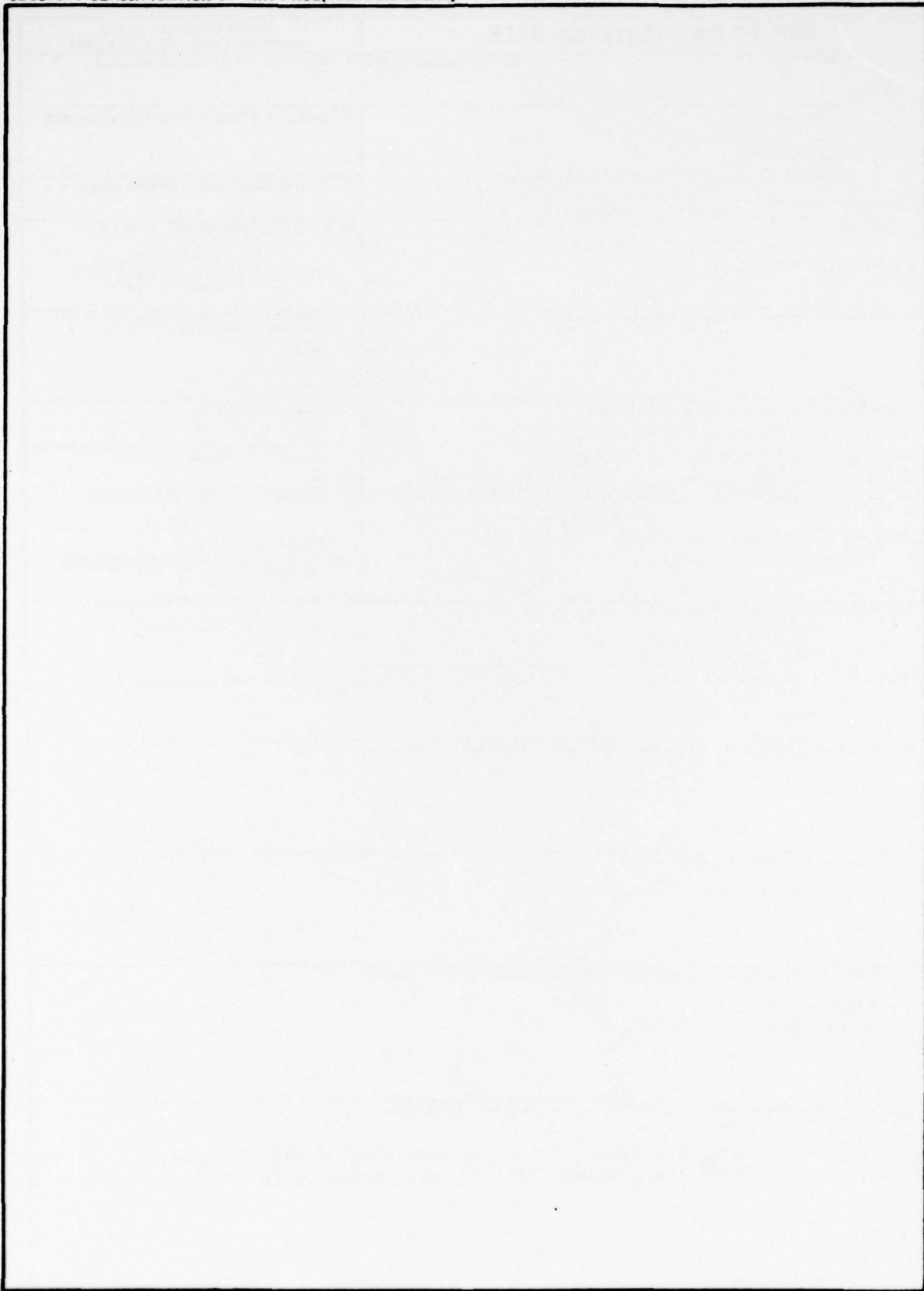
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 12811A Lance, Missile Number 3206, Round Number 284 ACT, are presented in tabular form.	17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)	

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INTRODUCTION

12811A Lance, Missile Number 3206, Round Number 284 ACT, was launched from Don Site, White Sands Missile Range (WSMR), New Mexico, at 0803 HRS MDT, 23 July 1976. The scheduled launch time was 0800 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	3,996.0	FEET/MSL
PRESSURE	882.1	MBS
TEMPERATURE	20.9	°C
RELATIVE HUMIDITY	78	%
DEW POINT	17.0	°C
DENSITY	1,036.6	GM/M ³
WIND SPEED	04	MPH
WIND DIRECTION	070	DEGREES
CLOUD COVER	5 1	Cu Ac

TABLE I. SURFACE OBSERVATIONS TAKEN AT DON SITE, 0803 HRS MDT/23 JULY 1976.

ELEVATION	3,990.0	FEET/MSL
PRESSURE	884.4	MBS
TEMPERATURE	20.1	°C
RELATIVE HUMIDITY	79	%
DEW POINT	16.4	°C
DENSITY	1,042.0	GM/M ³
WIND SPEED		CALM
WIND DIRECTION		CALM
CLOUD COVER	2 1 5	Cu Ac Ci

TABLE II. SURFACE OBSERVATIONS TAKEN AT WSD,
0807 HRS MDT/23 JULY 1976.

T-TIME (MIN-SEC)	DIR DEG	SPEED (MPH)
-0.30	075	02
-0.20	075	03
-0.10	094	03
00.00	095	03
+0 10.00	094	03

TABLE III. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION
 12811A LANCE, MISSILE NO. 3206, ROUND NO. 284 ACT
 LAUNCHED FROM DON SITE, 0803 MDT/23 JULY 1976

WSTM COORDINATES: X = 511,988.37 Y = 247,396.36 Z = 3,996.83

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR		CALM	2100	140	8.0
100	045	0.5	2200	150	10.0
200	063	2.0	2300	163	8.5
300	096	5.0	2400	161	9.0
400	110	11.5	2500	163	8.5
500	126	11.0	2600	144	8.5
600	118	11.5	2700	158	9.0
700	124	9.0	2800	141	9.5
800	127	7.5	2900	158	8.0
900	121	8.5	3000	153	6.5
1000	133	8.0	3100	176	6.5
1100	130	8.5	3200	174	4.5
1200	140	8.5	3300	188	7.0
1300	135	10.0	3400	185	6.0
1400	133	10.5	3500	169	5.0
1500	126	8.5	3600	153	6.5
1600	125	10.5	3700	158	5.5
1700	135	8.5	3800	158	2.5
1800	146	11.0	3900	156	6.0
1900	131	9.0	4000	157	6.5
2000	140	8.0	4100	157	6.5

TABLE IV. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM DON SITE, AT 0758 MDT/23 JULY 1976
12811A LANCE, MISSILE NO. 3206, ROUND NO. 284 ACT

PIBAL RELEASE POINT WSTM COORDINATES:

X = 511,988.37 Y = 247,396.36 Z = 3,996.83

APPROXIMATELY: 1/2 MILE SOUTH OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	162	6.5
4300	138	8.0
4400	120	8.0
4500	133	9.5
4600	133	9.5
4700	126	8.5
4800	119	9.0
4900	118	8.5
5000	114	6.0
5100	097	8.0
5200	104	8.0
5300	105	8.0
5400	108	6.5
5500	117	6.5
5600	112	5.5

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
5700	120	7.0
5800	125	6.0
5900	121	6.0
6000	127	5.0
6100	129	6.5
6200	135	3.0
6300	169	2.5
6400	149	3.0
6500	099	3.0
6600	056	3.5
6700	045	3.0
6800	045	4.0
6900	036	4.5
7000	018	3.0

TABLE IV. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR		CALM
100		CALM
200	205	1.0
300	210	2.0
400	210	2.0
500	210	3.0
600	210	3.0
700	215	3.0
800	215	4.0
900	220	4.0
1000	220	5.0
1100	220	
1200	220	
1300	215	
1400	210	
1500	205	5.0
1600	200	4.0
1700	195	4.0
1800	190	4.0
1900	190	4.0
2000	185	3.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
2100	180	3.0
2200	175	3.0
2300	170	2.0
2400	165	3.0
2500	150	3.0
2600	140	4.0
2700	130	4.0
2800	120	5.0
2900	110	5.0
3000	105	6.0
3100	100	6.0
3200	085	7.0
3300	075	7.0
3400	070	8.0
3500		8.0
3600		8.0
3700		9.0
3800		9.0
3900		9.0
4000		10.0
4100	070	10.0

TABLE V. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM TULAROSA GATE, AT 0804 MDT/23 JULY 1976
12811A LANCE, MISSILE NO. 3206, ROUND NO. 284 ACT

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	070	10.0	6600	095	7.0
4300			6700	095	
4400			6800	100	
4500			6900	110	
4600	070		7000	115	
4700	075		7100	120	
4800	080		7200	130	
4900	080		7300	135	
5000	080		7400	140	
5100	080		7500	145	
5200	085	10.0	7600	145	
5300	085	9.0	7700	150	
5400	090		7800	160	
5500	095		7900		
5600			8000		
5700		9.0	8100		
5800		8.0	8200		
5900			8300		
6000			8400		
6100			8500		
6200		8.0	8600		
6300		7.0	8700		
6400		7.0	8800		
6500	095	7.0	8900		
			9000	160	7.0

TABLE V. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	070	4.0	2100	128	9.0
100	117	1.0	2200	122	9.5
200	141	3.0	2300	136	6.5
300	099	6.5	2400	138	6.0
400	124	7.0	2500	144	7.0
500	124	7.0	2600	153	6.5
600	115	7.0	2700	163	5.0
700	115	7.0	2800	158	5.5
800	118	8.5	2900	167	4.5
900	122	9.5	3000	180	4.0
1000	120	11.0	3100	180	4.5
1100	123	10.0	3200	164	3.5
1200	125	10.5	3300	171	3.0
1300	125	10.5	3400	166	4.0
1400	121	10.5	3500	156	5.0
1500	124	11.0	3600	140	4.5
1600	123	10.0	3700	146	5.5
1700	124	9.0	3800	131	5.5
1800	126	9.5	3900	135	5.0
1900	125	10.5	4000	128	5.5
2000	122	9.5	4100	125	6.0

TABLE VI. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM DON SITE, AT 0817 MDT/23 JULY 1976
12811A LANCE, MISSILE NO. 3206, ROUND NO. 284 ACT

PIBAL RELEASE POINT WSTM COORDINATES:

X = 511,988.37 Y = 247,396.36 Z = 3,996.83

APPROXIMATELY: 1/2 MILE SOUTH OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	122	6.5
4300	114	6.0
4400	117	6.5
4500	121	6.0
4600	112	8.0
4700	112	8.0
4800	114	8.5
4900	107	7.0
5000	103	6.5
5100	103	6.5

TABLE VI. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76
 ASCENSION NO. 407
 0740 HRS MDT

SIGNIFICANT LEVEL DATA
 2050010407
 HOLLOMAN

WSTM SITE COORDINATES
 571739.24 FEET E
 362745.21 FEET N

TABLE VII

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
860.5	4126.6	18.4	13.1	71.0
863.0	4695.3	20.6	13.1	62.0
850.0	5125.8	19.3	10.3	56.0
807.0	6586.2	16.2	9.2	63.0
784.0	7394.4	15.7	7.2	57.0
700.0	10517.6	8.2	5.0	80.0
682.0	11223.5	6.2	3.5	83.0
627.0	13471.6	1.2	-4.2	67.0
614.0	14026.2	1.3	-11.1	39.0
607.0	14329.3	.7	-8.8	49.0
575.0	15751.6	-2.2	-16.6	32.0
535.0	17627.9	-4.0	-21.5	24.0
500.0	19369.0	-8.2	-22.3	31.0
471.0	20885.2	-11.5	-24.8	32.0
460.0	21480.0	-12.6	-21.5	47.0
443.0	22422.6	-14.4	-23.9	44.0
400.0	24936.9	-21.0	-28.6	50.0
385.0	25861.1	-23.7	-28.9	62.0
383.0	25985.3	-24.0	-34.8	36.0
375.0	26493.7	-23.5	-41.1	18.0
361.0	27406.2	-25.2	-43.0	17.0
331.0	29468.5	-27.9	-45.8	16.0
316.0	30560.3	-30.0	-47.6	16.0
300.0	31770.7	-33.1	-49.7	17.0
288.0	32713.0	-34.4		
250.0	35916.1	-42.4		
208.0	39921.2	-52.4		
200.0	40754.9	-53.3		
187.0	42174.7	-55.2		
166.0	44646.6	-61.1		

WSTM SITE COORDINATES
 571739.24 FEET E
 362745.21 FEET N

SIGNIFICANT LEVEL DATA
 2050010407
 HOLLOMAN

TABLE VII (CONT)

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76 0740 HRS MDT
 ASCENSION NO. 407

PRESSURE GEOMETRIC		TEMPERATURE		REL. HUM.
MILLIBARS	ALTITUDE MSL FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT
150.0	46707.7	-63.9		
148.0	46978.2	-65.0		
143.0	47671.6	-63.4		
131.0	49445.7	-63.7		
116.0	51889.3	-66.5		
107.0	53504.3	-65.8		
100.0	54853.3	-67.8		
94.0	56079.4	-68.4		
70.0	62004.1	-62.0		
50.0	68975.1	-55.8		
33.0	77770.4	-53.0		
30.0	79815.9	-50.1		
22.0	86542.5	-48.4		
20.0	88604.9	-51.4		
15.0	94910.7	-42.7		

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76 0740 HRS MDT
 ASCENSION NO. 407

UPPER AIR DATA
 2050010407
 HOLLOMAN

WSTM SITE COORDINATES
 571739.24 FEET E
 362745.21 FEET N

TABLE VIII

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
4126.6	880.5	18.4	71.0	1045.3	667.4	40.0	1.9	1.000300
4500.0	869.0	19.8	65.1	1026.4	669.0			1.000295
5000.0	853.8	19.7	57.8	1009.7	668.6			1.000284
5500.0	838.8	18.5	57.8	996.3	667.2			1.000277
6000.0	824.0	17.4	60.2	982.4	665.9			1.000273
6500.0	809.5	16.4	62.6	968.6	664.7			1.000269
7000.0	795.1	15.9	59.9	953.2	664.1			1.000262
7500.0	781.0	15.4	57.8	938.1	663.5			1.000255
8000.0	767.0	14.2	61.5	925.1	662.1	348.7	5.8	1.000252
8500.0	753.2	13.0	65.1	912.3	660.7	334.8	5.2	1.000249
9000.0	739.6	11.8	68.8	899.7	659.3	324.0	3.3	1.000245
9500.0	726.3	10.6	72.5	887.3	657.9	288.6	1.5	1.000242
10000.0	713.3	9.4	76.2	875.1	656.5	287.3	.8	1.000238
10500.0	700.4	8.2	79.9	863.1	655.1	359.8	.8	1.000234
11000.0	687.6	6.8	82.1	851.8	653.3	18.0	1.9	1.000234
11500.0	675.0	5.6	81.0	840.1	651.8	18.0	3.4	1.000229
12000.0	662.5	4.5	77.5	828.2	650.3	23.3	4.6	1.000223
12500.0	650.2	3.4	73.9	816.4	648.9	30.4	5.5	1.000217
13000.0	638.2	2.2	70.4	804.8	647.5	38.0	5.9	1.000210
13500.0	626.3	1.2	65.6	793.2	646.1	46.8	6.1	1.000205
14000.0	614.6	1.3	40.3	778.9	645.9	50.4	6.7	1.000199
14500.0	603.1	.4	47.0	766.7	644.9	50.7	7.4	1.000187
15000.0	591.7	-.7	41.0	755.3	643.6	52.2	8.4	1.000186
15500.0	580.5	-1.7	35.0	744.1	642.3	54.1	9.5	1.000180
16000.0	569.5	-2.4	30.9	732.1	641.3	55.0	10.6	1.000175
16500.0	558.7	-2.9	28.8	719.5	640.7	55.4	11.7	1.000171
17000.0	548.1	-3.4	26.7	707.2	640.1	57.6	12.7	1.000168
17500.0	537.6	-3.9	24.5	695.0	639.5	60.7	13.6	1.000164
18000.0	527.3	-4.9	25.5	684.3	638.3	65.2	14.7	1.000161
18500.0	517.2	-6.1	27.5	674.1	636.9	70.4	16.1	1.000158
						72.3	17.6	1.000156

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

UPPER AIR DATA
 2050010407
 HOLLOWMAN

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76
 ASCENSION NO. 437

0740 HRS MDT

WSTM SITE COORDINATES
 571739.24 FEET E
 362745.21 FEET N

TABLE VIII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
							DIRECTION DEGREES(TN)	SPEED KNOTS	
19000.0	507.2	-7.3	-22.1	29.5	664.2	635.4	72.9	19.1	1.000154
19500.0	497.4	-8.5	-22.5	31.1	654.2	634.0	70.8	19.8	1.000151
20000.0	487.7	-9.6	-23.3	31.4	644.2	632.7	68.4	20.4	1.000149
20500.0	478.2	-10.7	-24.2	31.7	634.2	631.4	63.7	20.8	1.000146
21000.0	468.9	-11.7	-24.1	34.9	624.3	630.1	59.1	21.3	1.000144
21500.0	457.6	-12.6	-21.6	46.9	614.1	629.1	55.0	21.4	1.000143
22000.0	450.5	-13.6	-22.9	45.3	604.2	627.9	50.9	21.5	1.000140
22500.0	441.6	-14.6	-24.1	44.2	594.6	626.7	49.0	21.1	1.000137
23000.0	432.7	-15.9	-25.0	45.4	585.6	625.0	47.1	20.6	1.000135
23500.0	424.0	-17.2	-25.9	46.6	576.8	623.4	46.3	21.1	1.000133
24000.0	415.5	-18.5	-26.8	47.8	568.2	621.8	45.6	21.6	1.000131
24500.0	407.2	-19.9	-27.8	49.0	559.7	620.2	45.6	22.9	1.000128
25000.0	399.0	-21.2	-28.6	50.8	551.3	618.6	45.7	24.3	1.000126
25500.0	390.8	-22.6	-28.7	57.3	543.2	616.8	46.3	26.0	1.000124
26000.0	382.8	-24.0	-34.9	35.5	535.0	615.0	47.0	27.8	1.000121
26500.0	374.9	-23.5	-41.1	18.0	523.1	615.6	48.4	29.1	1.000118
27000.0	367.2	-24.4	-42.1	17.4	514.2	614.4	49.9	30.5	1.000115
27500.0	359.6	-25.3	-43.1	17.0	505.4	613.3	51.3	33.3	1.000113
28000.0	352.1	-26.0	-43.8	16.7	496.2	612.5	52.5	36.5	1.000111
28500.0	344.8	-26.6	-44.5	16.5	487.1	611.7	53.0	40.1	1.000109
29000.0	337.6	-27.3	-45.2	16.2	478.3	610.9	53.4	43.7	1.000107
29500.0	330.6	-28.0	-45.9	16.0	469.6	610.1	53.2	44.3	1.000105
30000.0	323.6	-28.9	-46.7	16.0	461.5	608.9	52.9	44.5	1.000103
30500.0	316.8	-29.9	-47.5	16.0	453.6	607.7	52.0	43.2	1.000102
31000.0	310.1	-31.1	-48.3	16.4	446.3	606.1	50.8	41.7	1.000100
31500.0	303.5	-32.4	-49.2	16.8	439.1	604.5	50.4	43.8	1.000098
32000.0	297.0	-33.4	-52.3	12.9**	431.6	603.2	50.2	46.5	1.000096
32500.0	290.7	-34.1	-62.4	3.8**	423.6	602.3	50.0	50.5	1.000094
33000.0	284.4	-35.1			416.2	601.1	49.8	54.7	1.000093
33500.0	278.2	-36.4			409.2	599.5	49.6	58.0	1.000091

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

UPPER AIR DATA
 2050010407
 HOLLOMAN

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76 0740 HRS MDT
 ASCENSION NO. 407

WSTM SITE COORDINATES
 571739.24 FEET E
 362745.21 FEET N

TABLE VIII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
34000.0	272.1	-37.6			402.4	597.9		49.2	59.4	1.000090
34500.0	266.1	-38.9			395.7	596.3		48.9	60.8	1.000088
35000.0	260.3	-40.1			389.2	594.7		48.3	61.2	1.000087
35500.0	254.6	-41.4			382.7	593.1		47.5	61.3	1.000085
36000.0	249.0	-42.6			376.3	591.5		46.9	61.9	1.000084
36500.0	243.4	-43.9			369.8	589.9		46.5	63.4	1.000082
37000.0	237.9	-45.1			363.4	588.3		46.2	64.8	1.000081
37500.0	232.5	-46.4			357.1	586.7		46.3	65.3	1.000080
38000.0	227.2	-47.6			350.9	585.1		46.5	65.9	1.000078
38500.0	222.0	-48.9			344.8	583.5		46.5	65.6	1.000077
39000.0	217.0	-50.1			338.9	581.8		46.4	64.9	1.000075
39500.0	212.1	-51.3			333.1	580.2		46.4	63.8	1.000074
40000.0	207.2	-52.5			327.2	578.7		46.1	59.6	1.000073
40500.0	202.4	-53.0			320.3	578.0		45.8	55.5	1.000071
41000.0	197.7	-53.6			313.7	577.2		45.6	51.2	1.000070
41500.0	193.1	-54.3			307.3	576.3		45.5	46.8	1.000068
42000.0	188.6	-55.0			301.1	575.4		45.3	43.1	1.000067
42500.0	184.1	-56.0			295.3	574.1		45.4	45.1	1.000066
43000.0	179.7	-57.2			289.9	572.5		45.4	47.2	1.000065
43500.0	175.4	-58.4			284.5	571.0		46.1	49.4	1.000063
44000.0	171.3	-59.6			279.3	569.4		47.1	51.6	1.000062
44500.0	167.2	-60.8			274.2	567.8		48.1	53.4	1.000061
45000.0	163.1	-61.6			268.6	566.7		50.2	51.1	1.000060
45500.0	159.2	-62.3			262.9	565.7		52.5	48.9	1.000059
46000.0	155.3	-62.9			257.4	564.8		55.1	45.4	1.000057
46500.0	151.5	-63.6			251.9	563.9		58.1	41.1	1.000056
47000.0	147.8	-64.9			247.4	562.1		61.7	37.0	1.000055
47500.0	144.2	-63.8			240.0	563.7		64.1	33.1	1.000053
48000.0	140.7	-63.5			233.7	564.1		67.2	29.3	1.000052
48500.0	137.3	-63.5			228.1	564.0		68.8	26.5	1.000051

UPPER AIR DATA
 2050J104C7
 HOLLOMAN

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76
 ASCENSION NO. 407

WSTM SITE COORDINATES
 571739.24 FEET E
 362745.21 FEET N

TABLE VIII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
4900.0	133.9	-63.6		222.7	563.9	67.7		24.6	1.000050
4950.0	130.6	-63.8		217.4	563.7	66.4		22.7	1.000048
5000.0	127.4	-64.3		212.6	563.0	66.5		19.8	1.000047
5050.0	124.3	-64.9		207.9	562.2	67.1		16.6	1.000046
5100.0	121.2	-65.5		203.4	561.4	68.0		13.6	1.000045
5150.0	118.3	-66.1		198.9	560.6	69.6		11.4	1.000044
5200.0	115.4	-66.5		194.4	560.1	71.8		9.3	1.000043
5250.0	112.5	-66.2		189.4	560.4	69.2		8.1	1.000042
5300.0	109.7	-66.0		184.6	560.7	61.0		8.0	1.000041
5350.0	107.0	-65.8		179.8	561.0	52.7		8.0	1.000040
5400.0	104.4	-66.5		176.0	560.0	55.6		7.3	1.000039
5450.0	101.8	-67.3		172.2	559.0	60.2		6.6	1.000038
5500.0	99.3	-67.9		168.5	558.2	67.1		6.5	1.000038
5550.0	96.8	-68.1		164.4	557.8	74.6		7.6	1.000037
5600.0	94.4	-68.4		160.5	557.5	80.2		8.8	1.000036
5650.0	92.1	-67.9		156.3	558.1	80.3		10.2	1.000035
5700.0	89.8	-67.4		152.0	558.8	79.7		11.7	1.000034
5750.0	87.6	-66.9		147.9	559.5	79.2		13.1	1.000033
5800.0	85.4	-66.3		143.9	560.3	74.6		15.7	1.000032
5850.0	83.3	-65.8		140.0	561.0	70.8		18.5	1.000031
5900.0	81.3	-65.2		136.2	561.7	68.1		21.4	1.000030
5950.0	79.3	-64.7		132.5	562.5	72.7		22.6	1.000030
6000.0	77.3	-64.2		128.9	563.2	77.6		23.7	1.000029
6050.0	75.4	-63.6		125.4	563.9	82.2		24.9	1.000028
6100.0	73.6	-63.1		122.0	564.6	89.0		24.8	1.000027
6150.0	71.8	-62.5		118.7	565.4	95.8		25.1	1.000026
6200.0	70.0	-62.0		115.5	566.1	98.3		24.9	1.000026
6250.0	68.3	-61.6		112.5	566.7	97.8		24.1	1.000025
6300.0	66.7	-61.1		109.6	567.3	97.2		23.3	1.000024
6350.0	65.1	-60.7		106.8	567.9	94.4		23.4	1.000024

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76
 ASCENSION NO. 407

UPPER AIR DATA
 2050010407
 HOLLOMAN

WSTM SITE COORDINATES
 571739.24 FEET E
 362745.21 FEET N

TABLE VIII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
64000.0	63.6	-60.2		104.0	568.5	91.7	23.6	1.000023
64500.0	62.1	-59.8		101.3	569.1	88.1	24.0	1.000023
65000.0	60.6	-59.3		98.7	569.7	83.8	24.7	1.000022
65500.0	59.1	-58.9		96.1	570.3	79.8	25.6	1.000021
66000.0	57.7	-58.4		93.7	570.8	77.4	25.9	1.000021
66500.0	56.3	-58.0		91.2	571.4	75.5	26.0	1.000020
67000.0	55.0	-57.6		88.9	572.0	73.7	26.2	1.000020
67500.0	53.7	-57.1		86.6	572.6	77.5	26.5	1.000019
68000.0	52.4	-56.7		84.3	573.2	61.6	26.9	1.000019
68500.0	51.2	-56.2		82.2	573.8	85.6	27.4	1.000018
69000.0	49.9	-55.8		80.0	574.4	89.6	27.7	1.000018
69500.0	48.8	-55.6		78.1	574.6	93.5	28.2	1.000017
70000.0	47.6	-55.5		76.2	574.8	96.2	28.2	1.000017
70500.0	46.5	-55.3		74.4	575.0	96.4	27.1	1.000017
71000.0	45.4	-55.2		72.6	575.2	96.6	25.9	1.000016
71500.0	44.4	-55.0		70.9	575.4	98.9	25.4	1.000016
72000.0	43.3	-54.8		69.2	575.6	101.9	25.2	1.000015
72500.0	42.3	-54.7		67.5	575.8	104.7	24.8	1.000015
73000.0	41.3	-54.5		65.9	576.0	106.1	23.6	1.000015
73500.0	40.4	-54.4		64.3	576.2	107.6	22.4	1.000014
74000.0	39.4	-54.2		62.7	576.5	104.8	22.1	1.000014
74500.0	38.5	-54.0		61.2	576.7	98.4	22.8	1.000014
75000.0	37.6	-53.9		59.8	576.9	92.5	23.7	1.000013
75500.0	36.7	-53.7		58.3	577.1	89.4	25.9	1.000013
76000.0	35.9	-53.6		56.9	577.3	87.0	28.2	1.000013
76500.0	35.0	-53.4		55.6	577.5	85.1	30.1	1.000012
77000.0	34.2	-53.2		54.2	577.7	84.2	30.5	1.000012
77500.0	33.4	-53.1		52.9	577.9	83.2	30.9	1.000012
78000.0	32.6	-52.7		51.6	578.5	82.4	31.3	1.000011
78500.0	31.9	-52.0		50.2	579.4	82.6	31.4	1.000011

UPPER AIR DATA
 2050010407
 HOLLOWMAN

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76
 ASCENSION NO. 407

WSTM SITE COORDINATES
 571739.24 FEET E
 362745.21 FEET N

TABLE VIII (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	31.2	-51.3		48.9	580.3	82.8	31.5	1.000011
79500.0	30.4	-50.5		47.6	581.2	83.0	31.5	1.000011
80000.0	29.7	-50.1		46.4	581.9	83.9	30.8	1.000010
80500.0	29.1	-49.9		45.4	582.1	85.0	29.8	1.000010
81000.0	28.4	-49.8		44.3	582.2	86.2	28.9	1.000010
81500.0	27.8	-49.7		43.3	582.4	85.1	27.8	1.000010
82000.0	27.1	-49.5		42.3	582.5	82.4	26.6	1.000009
82500.0	26.5	-49.4		41.3	582.7	79.3	25.5	1.000009
83000.0	25.9	-49.3		40.3	582.9	77.8	24.7	1.000009
83500.0	25.3	-49.2		39.4	583.0	79.2	24.6	1.000009
84000.0	24.7	-49.0		38.5	583.2	80.6	24.5	1.000009
84500.0	24.2	-48.9		37.6	583.4	82.5	24.3	1.000008
85000.0	23.6	-48.8		36.7	583.5	87.9	23.9	1.000008
85500.0	23.1	-48.7		35.8	583.7	93.5	23.6	1.000008
86000.0	22.6	-48.5		35.0	583.9	99.1	23.6	1.000008
86500.0	22.0	-48.4		34.2	584.0	101.0	23.2	1.000008
87000.0	21.5	-49.1		33.5	583.2	102.5	22.6	1.000007
87500.0	21.0	-49.8		32.8	582.2	104.0	22.1	1.000007
88000.0	20.6	-50.5		32.2	581.3	97.4	23.2	1.000007
88500.0	20.1	-51.2		31.6	580.3	90.9	24.8	1.000007
89000.0	19.6	-50.9		30.8	580.8	85.3	26.7	1.000007
89500.0	19.2	-50.2		30.0	581.7	82.1	27.9	1.000007
90000.0	18.8	-49.5		29.2	582.6	79.3	29.2	1.000006
90500.0	18.3	-48.8		28.5	583.5	77.6	30.6	1.000006
91000.0	17.9	-48.1		27.8	584.4	81.1	32.2	1.000006
91500.0	17.5	-47.4		27.0	585.3	84.2	33.9	1.000006
92000.0	17.1	-46.7		26.4	586.2	87.3	35.4	1.000006
92500.0	16.7	-46.0		25.7	587.1	90.8	36.2	1.000006
93000.0	16.4	-45.3		25.0	588.0	94.2	37.2	1.000006
93500.0	16.0	-44.6		24.4	588.9			1.000005

WSTM SITE COORDINATES
 571739.24 FEET E
 362745.21 FEET N

UPPER AIR DATA
 2050010407
 HOLLoman

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76 0740 HRS MDT
 ASCENSION NO. 407

TABLE VIII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
9400.0	15.6	-44.0			23.8	589.8			1.000005
94500.0	15.3	-43.3			23.2	590.7			1.000005

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76
 ASCENSION NO. 407

MANDATORY LEVELS
 205001J407
 HULLOMAN

WSTM SITE COORDINATES
 571739.24 FEET E
 362745.21 FEET N

TABLE IX

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5124.	19.3	10.3	56.	9999.0	9999.0XX
800.0	6827.	16.0	8.6	61.	9999.0	9999.0XX
750.0	8621.	12.8	6.6	66.	319.5	2.8
700.0	10511.	8.2	5.0	80.	18.0	2.0
650.0	12504.	3.3	-0.9	74.	38.2	5.9
600.0	14623.	.1	-10.3	45.	52.8	8.7
550.0	16893.	-3.3	-19.6	27.	60.2	13.4
500.0	19348.	-8.2	-22.3	31.	71.5	19.6
450.0	22004.	-13.7	-22.9	45.	50.7	21.5
400.0	24903.	-21.0	-28.6	50.	45.7	24.1
350.0	28101.	-26.2	-44.0	17.	52.7	37.5
300.0	31716.	-33.1	-49.7	17.	50.3	45.2
250.0	35847.	-42.4			47.0	61.6
200.0	40668.	-53.3			45.7	53.4
175.0	43460.	-58.5			46.2	49.6
150.0	46595.	-63.9			59.5	39.5
125.0	50261.	-64.8			67.0	17.3
100.0	54699.	-67.8			64.2	6.2
80.0	59118.	-64.9			70.4	22.1
70.0	61809.	-62.0			98.3	24.9
60.0	64958.	-59.2			82.5	25.0
50.0	68737.	-55.8			89.3	27.7
40.0	73414.	-54.3			108.2	22.0
30.0	79502.	-50.1			83.5	31.1
25.0	83418.	-49.1			79.9	24.5
20.0	88220.	-51.4			89.8	25.2
15.0	94471.	-42.7				

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

STATION ALTITUDE 3951.40 FEET MSL
 23 JULY 76 0750 HRS MDT
 ASCENSION NO. 10

SIGNIFICANT LEVEL DATA
 2050050010
 APACHE

WSTM SITE COORDINATES
 481468.66 FEET E
 267476.59 FEET N

TABLE X

PRESSURE GEOMETRIC		TEMPERATURE		REL. HUM.
MILLIBARS	ALTITUDE	AIR	DEWPOINT	PERCENT
MSL FEET	FEET	DEGREES	CENTIGRADE	
885.6	3951.4	21.1	16.3	74.0
872.3	4381.2	19.0	13.6	71.0
850.0	5111.8	17.8	9.9	60.0
738.3	9030.2	11.4	5.1	65.0
700.0	10485.2	7.5	4.8	83.0
671.3	11615.5	4.8	3.6	92.0
616.3	13893.6	.7	-3.4	74.0
591.3	14982.8	-1.8	-10.3	52.0
558.3	16477.4	-4.6	-15.0	44.0
547.8	16968.7	-4.6	-28.8	13.0
500.0	19312.3	-8.8	-23.7	28.0
400.0	24858.6	-21.7	-24.5	78.0
388.3	25575.2	-24.0	-25.9	84.0
382.3	25949.4	-23.7	-44.2	13.0
330.3	29427.0	-29.0	-50.8	10.0
300.0	31671.2	-33.4		
250.0	35804.2	-42.7		
228.3	37800.6	-47.7		
200.0	40639.6	-53.9		
165.8	44539.7	-61.4		
150.0	46588.8	-61.0		
139.3	48102.3	-61.7		
112.3	52422.9	-69.3		
108.8	53049.5	-67.3		
100.0	54723.3	-68.2		
77.8	59762.8	-62.6		
70.0	61911.3	-63.0		

STATION ALTITUDE 3951.40 FEET MSL
 23 JULY 76 0750 HRS MDT
 ASCENSION NO. 10

UPPER AIR DATA
 205050010
 APACHE

WSTM SITE COORDINATES
 481468.66 FEET E
 267476.59 FEET N

TABLE XI

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
3951.4	885.6	21.1	74.0	1040.2	670.9	.0	.0	1.000313
4000.0	884.1	20.9	73.7	1039.4	670.6	130.8	.2	1.000311
4500.0	868.6	18.8	69.2	1029.7	667.9	130.8	1.9	1.000296
5000.0	853.4	18.0	61.7	1015.4	666.6	130.8	3.7	1.000283
5500.0	838.2	17.2	60.5	1000.4	665.6	130.8	5.4	1.000276
6000.0	823.3	16.3	61.1	985.5	664.6	133.2	6.5	1.000271
6500.0	808.6	15.5	61.8	970.8	663.6	138.3	6.8	1.000266
7000.0	794.2	14.7	62.4	956.3	662.6	143.2	6.4	1.000261
7500.0	780.1	13.9	63.0	942.1	661.7	146.8	5.8	1.000256
8000.0	766.2	13.1	63.7	928.1	660.7	137.9	5.5	1.000251
8500.0	752.5	12.3	64.3	914.2	659.7	130.3	5.1	1.000246
9000.0	739.1	11.4	65.0	900.6	658.7	123.7	4.3	1.000242
9500.0	725.7	10.1	70.8	888.3	657.2	108.2	3.0	1.000239
10000.0	712.5	8.8	77.0	876.3	655.7	71.3	2.1	1.000237
10500.0	699.6	7.5	83.1	864.5	654.1	42.1	2.0	1.000234
11000.0	686.8	6.3	87.1	852.3	652.7	35.9	3.6	1.000230
11500.0	674.2	5.1	91.1	840.3	651.3	43.4	7.3	1.000226
12000.0	661.7	4.1	89.0	827.9	650.0	47.1	9.8	1.000220
12500.0	649.4	3.2	85.0	815.5	648.9	50.1	11.7	1.000214
13000.0	637.3	2.3	81.1	803.2	647.7	57.9	9.3	1.000208
13500.0	625.5	1.4	77.1	791.1	646.5	67.9	7.4	1.000202
14000.0	613.8	.5	71.9	779.3	645.3	61.0	7.3	1.000197
14500.0	602.3	-.7	61.8	768.3	643.8	52.9	7.2	1.000189
15000.0	590.9	-1.8	51.9	757.4	642.3	42.3	7.3	1.000183
15500.0	579.7	-2.8	49.2	745.7	641.1	38.8	8.0	1.000179
16000.0	568.6	-3.7	46.6	734.1	639.9	44.8	9.3	1.000175
16500.0	557.8	-4.6	42.6	722.7	638.8	52.0	10.7	1.000171
17000.0	547.1	-4.7	13.2	709.6	638.5	60.4	12.5	1.000161
17500.0	536.6	-5.6	16.4	698.2	637.4	68.9	12.7	1.000159
18000.0	526.2	-6.4	19.6	687.0	636.4	77.9	12.6	1.000157

UPPER AIR DATA
 2050050010
 APACHE

STATION ALTITUDE 3951.40 FEET MSL
 23 JULY 76 0750 HRS MDT
 ASCENSION NO. 10

WSTM SITE COORDINATES
 481468.66 FEET E
 267476.59 FEET N

TABLE XI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES(TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
18500.0	516.1	-7.3	-25.0	22.8	676.0	635.3	78.6	13.8	1.000155
19000.0	506.1	-8.2	-24.3	26.0	665.1	634.3	77.5	15.1	1.000153
19500.0	496.2	-9.2	-23.7	29.7	654.6	633.1	72.5	16.6	1.000151
20000.0	486.4	-10.4	-23.1	34.2	644.4	631.7	69.0	17.7	1.000149
20500.0	476.7	-11.6	-22.8	38.7	634.3	630.3	67.1	18.0	1.000147
21000.0	467.2	-12.7	-22.6	43.2	624.4	628.9	65.0	17.7	1.000145
21500.0	457.9	-13.9	-22.5	47.7	614.7	627.5	62.3	16.7	1.000143
22000.0	448.8	-15.1	-22.6	52.2	605.2	626.1	56.7	16.8	1.000140
22500.0	439.8	-16.2	-22.8	56.7	595.8	624.7	49.5	18.1	1.000138
23000.0	431.1	-17.4	-23.0	61.2	586.6	623.3	44.6	20.3	1.000136
23500.0	422.5	-18.5	-23.3	65.8	577.6	621.9	41.4	23.0	1.000134
24000.0	414.1	-19.7	-23.7	70.3	568.7	620.5	39.3	24.8	1.000132
24500.0	405.8	-20.9	-24.1	74.8	559.9	619.0	37.7	26.3	1.000130
25000.0	397.7	-22.2	-24.8	79.2	551.5	617.4	37.6	27.3	1.000128
25500.0	389.5	-23.8	-25.8	83.4	543.7	615.4	38.0	28.1	1.000126
26000.0	381.5	-23.8	-44.3	13.0	532.9	615.2	40.1	28.7	1.000119
26500.0	373.6	-24.5	-45.3	12.5	523.4	614.3	42.7	29.3	1.000117
27000.0	365.8	-25.3	-46.2	12.1	514.1	613.4	45.4	30.7	1.000115
27500.0	358.2	-26.1	-47.1	11.7	504.9	612.4	47.8	32.4	1.000113
28000.0	350.7	-26.8	-48.1	11.2	496.0	611.5	51.1	33.6	1.000111
28500.0	343.4	-27.6	-49.0	10.8	487.2	610.5	54.4	34.9	1.000109
29000.0	336.3	-28.3	-50.0	10.4	478.5	609.6	56.2	35.8	1.000107
29500.0	329.3	-29.1	-51.2	9.7	470.1	608.6	57.4	36.6	1.000105
30000.0	322.3	-30.1	-54.2	7.4	462.0	607.3	57.1	38.1	1.000103
30500.0	315.4	-31.1	-57.8	5.2	454.0	606.1	56.1	40.0	1.000101
31000.0	308.8	-32.1	-62.8	3.0	446.2	604.9	55.4	42.4	1.000099
31500.0	302.2	-33.1	-73.0	0.8	438.5	603.6	54.8	45.0	1.000098
32000.0	295.7	-34.1			431.0	602.3	54.2	47.8	1.000096
32500.0	289.2	-35.3			423.6	600.9	53.6	50.5	1.000094
33000.0	282.9	-36.4			416.3	599.4	54.2	52.8	1.000093

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

STATION ALTITUDE 3951.40 FEET MSL
 23 JULY 70
 ASCENSION NO. 10 0750 HRS MDT

UPPER AIR DATA
 2050050010
 APACHE

WSTM SITE COORDINATES
 481468.66 FEET E
 267476.59 FEET N

TABLE XI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	"IND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
33500.0	276.7	-37.5		409.1	598.0	55.5	54.8	1.000091
34000.0	270.7	-38.6		402.1	596.6	56.9	57.3	1.000090
34500.0	264.8	-39.8		395.3	595.2	58.2	60.3	1.000088
35000.0	259.0	-40.9		388.5	593.7	57.8	63.5	1.000087
35500.0	253.4	-42.0		381.9	592.3	57.0	66.9	1.000085
36000.0	247.8	-43.2		375.4	590.8	56.1	67.4	1.000084
36500.0	242.2	-44.4		368.9	589.2	55.2	68.0	1.000082
37000.0	236.8	-45.7		362.6	587.5	55.0	67.8	1.000081
37500.0	231.4	-46.9		356.4	585.9	54.9	67.4	1.000079
38000.0	226.2	-48.1		350.2	584.4	54.8	66.1	1.000078
38500.0	221.0	-49.2		343.8	583.0	54.9	64.2	1.000077
39000.0	215.9	-50.3		337.5	581.5	54.8	62.1	1.000075
39500.0	210.9	-51.4		331.4	580.1	54.6	59.7	1.000074
40000.0	206.1	-52.5		325.3	578.7	54.2	57.2	1.000072
40500.0	201.3	-53.6		319.4	577.3	53.3	54.2	1.000071
41000.0	196.6	-54.6		313.3	575.9	52.1	51.7	1.000070
41500.0	191.9	-55.6		307.2	574.7	50.2	50.4	1.000068
42000.0	187.3	-56.5		301.3	573.4	48.6	49.1	1.000067
42500.0	182.9	-57.5		295.4	572.1	48.1	47.9	1.000066
43000.0	178.5	-58.4		289.7	570.9	47.9	46.7	1.000065
43500.0	174.3	-59.4		284.1	569.6	49.1	45.5	1.000063
44000.0	170.2	-60.4		278.6	568.3	50.4	44.3	1.000062
44500.0	166.1	-61.3		273.2	567.0	52.9	47.5	1.000061
45000.0	162.1	-61.3		266.6	567.0	55.1	50.7	1.000059
45500.0	158.2	-61.2		260.0	567.2	58.0	47.7	1.000058
46000.0	154.4	-61.1		253.6	567.3	61.4	44.0	1.000056
46500.0	150.7	-61.0		247.4	567.4	64.9	34.7	1.000055
47000.0	147.0	-61.2		241.6	567.2	71.3	22.8	1.000054
47500.0	143.5	-61.4		236.0	566.9	79.8	14.1	1.000053
48000.0	140.0	-61.7		230.6	566.6	79.1	9.8	1.000051

UPPER AIR DATA
 2050050010
 APACHE

STATION ALTITUDE 3951.40 FEET MSL
 23 JULY 76 0750 HRS MDT
 ASCENSION NO. 10

WSTM SITE COORDINATES
 481468.66 FEET E
 267476.59 FEET N

TABLE XI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
48500.0	136.6	-62.4			225.7	565.6	75.7		1.000050
49000.0	133.2	-63.3			221.1	564.4	63.4		1.000049
49500.0	129.9	-64.2			216.6	563.2	56.8		1.000048
50000.0	126.7	-65.0			212.1	562.0	57.9		1.000047
50500.0	123.6	-65.9			207.8	560.8	59.8		1.000046
51000.0	120.6	-66.8			203.5	559.6	62.4		1.000045
51500.0	117.6	-67.7			199.4	558.4	65.3		1.000044
52000.0	114.7	-68.6			195.3	557.2	68.1		1.000043
52500.0	111.9	-69.1			190.9	556.6	71.9		1.000043
53000.0	109.1	-67.5			184.7	558.7	75.9		1.000041
53500.0	106.4	-67.5			180.2	568.6	77.2		1.000040
54000.0	103.7	-67.8			175.9	568.3	78.4		1.000039
54500.0	101.1	-68.1			171.8	557.9	79.3		1.000038
55000.0	98.6	-67.9			167.4	558.1	79.9		1.000037
55500.0	96.2	-67.3			162.8	558.9	80.4		1.000036
56000.0	93.8	-66.8			158.4	569.7	81.7		1.000035
56500.0	91.5	-66.2			154.1	560.4	82.9		1.000034
57000.0	89.3	-65.7			149.9	561.2	85.0		1.000033
57500.0	87.1	-65.1			145.8	561.9	88.2		1.000032
58000.0	84.9	-64.6			141.9	562.7	89.4		1.000032
58500.0	82.9	-64.0			138.0	563.4	84.1		1.000031
59000.0	80.8	-63.4			134.2	564.2	79.8		1.000030
59500.0	78.8	-62.9			130.6	564.9	78.8		1.000029
60000.0	76.9	-62.6			127.3	565.2	78.0		1.000028
60500.0	75.0	-62.7			124.2	565.1			1.000028
61000.0	73.2	-62.8			121.3	565.0			1.000027
61500.0	71.4	-62.9			118.4	564.9			1.000026

STATION ALTITUDE 3951.40 FEET MSL
 23 JULY 76
 ASCENSION NO. 10

MANDATORY LEVELS
 ZOSOSUGIO
 APACHE

WSTM SITE COORDINATES
 481468.66 FEET E
 267476.59 FEET N

TABLE XII

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5110.	17.8	9.9	60.	130.8	4.1
800.0	6806.	15.0	7.9	62.	141.3	6.6
750.0	8593.	12.1	5.6	64.	129.2	4.9
700.0	10479.	7.5	4.8	83.	43.1	2.0
650.0	12470.	3.3	1.0	85.	49.9	11.6
600.0	14588.	-0.9	-7.7	60.	50.8	7.2
550.0	16849.	-4.6	-24.3	20.	58.3	12.0
500.0	19291.	-8.8	-23.9	28.	74.3	16.0
450.0	21939.	-14.9	-22.6	52.	57.3	16.7
400.0	24826.	-21.7	-24.5	78.	37.5	27.0
350.0	28016.	-26.9	-48.2	11.	51.5	33.8
300.0	31619.	-33.4			54.6	45.9
250.0	35738.	-42.7			56.5	67.2
200.0	40555.	-53.9			53.0	53.5
175.0	43334.	-59.2			48.9	45.6
150.0	46478.	-61.0			65.6	32.8
125.0	50166.	-65.5			59.0	13.4
100.0	54572.	-68.2			79.6	15.0
80.0	59020.	-63.2			79.4	20.3
70.0	61719.	-63.0				

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

STATION ALTITUDE 4051.00 FEET MSL
 23 JULY 76
 0750 HRS MDT
 ASCENSION NO. 134

SIGNIFICANT LEVEL DATA
 2050030184
 JALLEN

WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

TABLE XIII

PRESSURE GEOMETRIC ALTITUDE		TEMPERATURE		REL. HUM. PERCENT
MILLIBARS	MSL FEET	AIR DEGREES	DEWPOINT CENTIGRADE	
882.2	4051.0	21.1	14.7	67.0
872.0	4381.4	19.4	13.3	68.0
850.0	5103.2	17.8	13.1	74.0
837.0	5536.6	16.7	13.0	79.0
814.0	6318.5	16.7	11.6	72.0
788.0	7225.9	14.7	9.5	71.0
765.0	8048.9	13.3	9.4	77.0
718.0	9795.7	10.1	5.7	74.0
700.0	10488.3	8.0	4.0	76.0
660.0	12073.9	3.5	1.2	85.0
642.0	12810.6	2.0	-3.1	69.0
627.0	13437.1	1.2	-13.3	33.0
541.0	17304.0	-3.4	-23.1	20.0
500.0	19336.1	-7.7	-23.8	26.0
484.0	20164.7	-9.8	-27.0	23.0
400.0	24899.2	-21.0	-29.7	45.0
385.0	25827.4	-21.4	-39.3	18.0
334.0	29227.4	-28.4	-45.7	17.0
326.0	29798.8	-29.0	-46.2	17.0
300.0	31741.2	-32.5	-49.2	17.0
250.0	35872.6	-43.8		
200.0	40688.6	-55.0		
174.0	43581.4	-60.8		
150.0	46609.4	-62.8		
143.0	47580.1	-62.8		
122.0	50766.4	-68.0		
117.0	51600.7	-65.5		
100.0	54726.7	-68.6		
92.0	56372.4	-69.2		
75.0	60475.5	-61.5		

WSTM SITE COORDINATES
450491.60 FEET E
464023.05 FEET N

SIGNIFICANT LEVEL DATA
2050030184
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
23 JULY 76
ASCENSION NO. 184
0750 HRS MDT

TABLE XIII (CONT)

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
70.0 61889.7	-60.8	
62.0 64375.3	-61.9	
56.0 66474.1	-58.0	
50.0 68835.7	-57.5	
44.0 71531.6	-52.9	
32.0 78309.5	-53.6	
30.0 79686.2	-52.2	
24.0 84482.4	-50.3	

UPPER AIR DATA
205003U184
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
23 JULY 76
0750 HRS MDT
ASCENSION NO. 184

WSTM SITE COORDINATES
450491.60 FEET E
464023.05 FEET N

TABLE XIV

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	882.2	21.1	14.7	67.0	1036.9	670.7	360.0	2.9	1.000305
4500.0	868.3	19.1	13.3	69.0	1028.0	668.3	7.7	.9	1.000297
5000.0	853.1	18.0	13.1	73.1	1013.8	667.0	169.8	1.4	1.000294
5500.0	838.1	16.8	13.1	78.6	1000.1	665.6	174.0	3.7	1.000291
6000.0	823.3	16.7	12.2	74.9	983.0	665.4	174.6	4.7	1.000283
6500.0	808.7	16.3	11.2	71.8	967.3	664.9	174.5	4.7	1.000276
7000.0	794.4	15.2	10.0	71.2	954.1	663.5	180.1	3.9	1.000269
7500.0	780.3	14.2	9.5	73.0	940.4	662.3	192.4	2.8	1.000264
8000.0	766.3	13.4	9.4	76.6	926.3	661.4	210.8	2.7	1.000261
8500.0	752.6	12.5	8.4	76.2	912.8	660.2	227.7	2.9	1.000255
9000.0	739.0	11.6	7.4	75.4	899.5	659.1	252.9	2.4	1.000249
9500.0	725.7	10.6	6.3	74.5	886.4	657.9	264.5	2.5	1.000243
10000.0	712.6	9.5	5.2	74.6	874.3	656.5	331.5	2.7	1.000237
10500.0	699.7	8.0	4.0	76.1	863.3	654.6	359.7	4.1	1.000231
11000.0	686.8	6.5	3.2	78.9	851.8	652.9	20.7	4.9	1.000227
11500.0	674.2	5.1	2.3	81.7	840.6	651.2	34.6	6.1	1.000223
12000.0	661.8	3.7	1.4	84.6	829.5	649.5	46.4	6.1	1.000218
12500.0	649.5	2.6	-1.2	75.7	817.8	648.0	58.8	6.1	1.000210
13000.0	637.4	1.6	-5.6	58.1	805.8	646.7	54.4	6.9	1.000200
13500.0	625.5	1.1	-13.4	32.8	793.4	645.6	47.8	8.0	1.000188
14000.0	613.7	.5	-14.6	31.1	780.2	644.9	46.4	8.9	1.000184
14500.0	602.1	-.1	-15.8	29.4	767.2	644.2	46.4	9.8	1.000180
15000.0	590.7	-.7	-17.0	27.7	754.4	643.4	54.1	10.5	1.000176
15500.0	579.5	-1.3	-18.2	26.1	741.8	642.7	63.3	11.3	1.000173
16000.0	568.6	-1.8	-19.5	24.4	729.5	642.0	67.7	12.8	1.000169
16500.0	557.9	-2.4	-20.8	22.7	717.3	641.2	69.9	14.5	1.000166
17000.0	547.3	-3.0	-22.2	21.0	705.4	640.5	71.8	15.6	1.000162
17500.0	536.9	-3.8	-23.1	20.6	694.0	639.6	73.6	16.4	1.000160
18000.0	526.6	-4.9	-23.2	22.1	683.3	638.3	74.0	16.7	1.000157
18500.0	516.5	-5.9	-23.4	23.5	672.9	637.1	73.2	16.6	1.000155

UPPER AIR DATA
 2050J30184
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STATION ALTITUDE 4051.00 FEET MSL
 23 JULY 76
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WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

TABLE XIV (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE						
1900.0	506.6	-7.0	-23.6	25.0	662.6	635.8	72.2	16.8	1.000152
1950.0	496.8	-8.1	-24.4	25.4	652.6	634.4	70.8	17.1	1.000150
2000.0	487.1	-9.4	-26.3	23.6	643.0	632.9	69.0	17.6	1.000147
2050.0	477.5	-10.6	-26.9	24.6	633.2	631.4	66.9	18.3	1.000145
2100.0	468.0	-11.8	-27.0	26.9	623.4	630.0	63.5	18.9	1.000143
2150.0	458.7	-13.0	-27.1	29.2	613.8	628.6	59.0	19.3	1.000140
2200.0	449.5	-14.1	-27.3	31.5	604.3	627.1	56.5	20.1	1.000138
2250.0	440.6	-15.3	-27.6	33.9	595.0	625.7	55.5	21.0	1.000136
2300.0	431.8	-16.5	-28.0	36.2	585.8	624.3	55.9	22.6	1.000134
2350.0	423.2	-17.7	-28.4	38.5	576.8	622.8	57.2	24.6	1.000132
2400.0	414.7	-18.9	-28.8	40.8	567.9	621.4	58.8	26.8	1.000130
2450.0	406.5	-20.1	-29.3	43.1	559.2	619.9	60.6	29.2	1.000128
2500.0	398.3	-21.0	-30.5	42.1	550.2	618.7	60.9	31.2	1.000125
2550.0	390.2	-21.3	-35.0	27.5	539.5	618.4	60.1	32.9	1.000122
2600.0	382.2	-21.8	-39.6	17.9	529.6	617.8	56.5	34.0	1.000119
2650.0	374.3	-22.8	-40.6	17.8	520.8	616.5	53.4	34.7	1.000117
2700.0	366.6	-23.8	-41.5	17.7	512.1	615.2	46.2	36.2	1.000115
2750.0	359.0	-24.8	-42.4	17.5	503.6	613.9	43.4	38.0	1.000113
2800.0	351.6	-25.9	-43.4	17.4	495.2	612.7	43.3	40.6	1.000111
2850.0	344.3	-26.9	-44.3	17.2	487.0	611.4	45.5	43.8	1.000109
2900.0	337.2	-27.9	-45.3	17.1	479.0	610.1	47.5	47.0	1.000107
2950.0	330.2	-28.7	-45.9	17.0	470.4	609.2	49.4	49.9	1.000105
3000.0	323.2	-29.4	-46.5	17.0	461.8	608.3	50.3	52.4	1.000103
3050.0	316.4	-30.3	-47.3	17.0	453.7	607.2	49.6	53.4	1.000102
3100.0	309.7	-31.2	-48.0	17.0	445.8	606.1	49.0	54.4	1.000100
3150.0	303.1	-32.1	-48.8	17.0	438.0	604.9	48.9	55.1	1.000098
3200.0	296.6	-33.2	-50.3	15.9**	430.6	603.5	49.1	55.7	1.000096
3250.0	290.1	-34.6	-52.6	13.9**	423.6	601.8	50.9	56.0	1.000095
3300.0	283.8	-35.9	-55.1	11.8**	416.8	600.0	52.5	56.4	1.000093
3350.0	277.6	-37.3	-57.7	9.8**	410.0	598.3	52.1	57.0	1.000091

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

STATION ALTITUDE 4051.00 FEET MSL
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UPPER AIR DATA
 2050030184
 JALLEN

WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

TABLE XIV (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		"IND DATA		INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
34000.0	271.5	-38.7	-60.6	7.7**	403.4	596.5	51.6	57.5	1.000090	
34500.0	265.6	-40.0	-64.0	5.6**	396.9	594.8	50.1	57.6	1.000088	
35000.0	259.8	-41.4	-68.3	3.6**	390.6	593.1	48.6	57.6	1.000087	
35500.0	254.1	-42.8	-75.0	1.5**	384.3	591.3	48.0	56.9	1.000086	
36000.0	248.5	-44.1			378.0	589.6	47.5	56.0	1.000084	
36500.0	242.8	-45.3			371.2	588.1	46.8	55.8	1.000083	
37000.0	237.3	-46.4			364.6	586.6	46.1	55.9	1.000081	
37500.0	231.8	-47.6			358.1	585.1	45.3	55.8	1.000080	
38000.0	226.5	-48.7			351.7	583.6	44.4	55.7	1.000078	
38500.0	221.3	-49.9			345.4	582.1	43.5	55.7	1.000077	
39000.0	216.3	-51.1			339.3	580.6	42.7	56.0	1.000076	
39500.0	211.3	-52.2			333.2	579.0	41.8	56.1	1.000074	
40000.0	206.5	-53.4			327.3	577.5	40.8	55.1	1.000073	
40500.0	201.8	-54.6			321.5	576.0	39.7	54.2	1.000072	
41000.0	197.0	-55.6			315.5	574.6	38.5	53.8	1.000070	
41500.0	192.3	-56.6			309.5	573.3	37.2	53.6	1.000069	
42000.0	187.8	-57.6			303.5	571.9	37.6	54.0	1.000068	
42500.0	183.3	-58.6			297.7	570.6	39.3	55.1	1.000066	
43000.0	178.9	-59.6			291.9	569.3	41.3	55.9	1.000065	
43500.0	174.7	-60.6			286.4	567.9	46.2	53.6	1.000064	
44000.0	170.5	-61.1			280.0	567.3	51.5	51.8	1.000062	
44500.0	166.3	-61.4			273.7	566.9	56.4	49.3	1.000061	
45000.0	162.3	-61.7			267.5	566.5	61.0	45.9	1.000060	
45500.0	158.4	-62.1			261.4	566.0	66.2	42.8	1.000058	
46000.0	154.5	-62.4			255.5	565.6	66.6	38.6	1.000057	
46500.0	150.8	-62.7			249.7	565.1	66.4	34.2	1.000056	
47000.0	147.1	-62.8			243.7	565.0	65.1	29.8	1.000054	
47500.0	143.6	-62.8			237.8	565.0	60.2	25.6	1.000053	
48000.0	140.0	-63.5			232.7	564.1	53.5	21.7	1.000052	
48500.0	136.6	-64.3			227.8	563.0	50.3	19.8	1.000051	

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

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

TABLE XIV (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	"IND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
49000.0	133.2	-65.1		223.1	561.9	49.1	18.7	1.000050
49500.0	129.9	-65.9		218.5	560.8	47.8	17.6	1.000049
50000.0	126.8	-66.7		213.9	559.7	50.9	16.8	1.000048
50500.0	123.6	-67.6		209.5	558.6	54.9	16.1	1.000047
51000.0	120.6	-67.3		204.1	558.9	59.1	15.5	1.000045
51500.0	117.6	-65.8		197.6	561.0	56.5	14.6	1.000044
52000.0	114.7	-65.9		192.8	560.9	53.7	13.8	1.000043
52500.0	111.8	-66.4		188.4	560.2	52.8	12.9	1.000042
53000.0	109.1	-66.9		184.2	559.5	64.3	11.8	1.000041
53500.0	106.4	-67.4		180.1	558.8	77.3	11.4	1.000040
54000.0	103.7	-67.9		176.0	558.2	93.1	11.3	1.000039
54500.0	101.1	-68.4		172.1	557.5	114.1	12.0	1.000038
55000.0	98.6	-68.7		168.0	557.0	130.8	14.1	1.000037
55500.0	96.2	-68.9		164.0	556.8	135.3	15.0	1.000037
56000.0	93.8	-69.1		160.0	556.5	129.1	13.8	1.000036
56500.0	91.4	-69.0		156.0	556.7	121.9	12.8	1.000035
57000.0	89.2	-68.0		151.4	558.0	105.2	13.7	1.000034
57500.0	87.0	-67.1		147.0	559.2	90.0	16.5	1.000033
58000.0	84.8	-66.1		142.8	560.5	79.6	20.1	1.000032
58500.0	82.8	-65.2		138.6	561.8	80.5	20.5	1.000031
59000.0	80.7	-64.3		134.6	563.0	81.8	20.8	1.000030
59500.0	78.7	-63.3		130.7	564.3	83.0	21.1	1.000029
60000.0	76.8	-62.4		126.9	565.6	84.5	20.2	1.000028
60500.0	74.9	-61.5		123.3	566.8	86.1	19.3	1.000027
61000.0	73.1	-61.2		120.2	567.1	87.8	18.3	1.000027
61500.0	71.3	-61.0		117.1	567.4	88.5	17.9	1.000026
62000.0	69.6	-60.8		114.2	567.6	89.0	17.4	1.000025
62500.0	67.9	-61.1		111.6	567.3	89.5	17.0	1.000025
63000.0	66.3	-61.3		109.0	567.0	89.1	17.1	1.000024
63500.0	64.7	-61.5		106.5	566.8	88.4	17.3	1.000024

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WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

TABLE XIV (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
64000.0	63.1	-61.7		104.1	566.5		87.7	17.6	1.000023
64500.0	61.6	-61.7		101.5	566.5		85.0	19.1	1.000023
65000.0	60.1	-60.7		98.6	567.8		82.1	21.0	1.000022
65500.0	58.7	-59.8		95.9	569.0		79.7	22.9	1.000021
66000.0	57.3	-58.9		93.2	570.3		74.6	24.0	1.000021
66500.0	55.9	-58.0		90.6	571.4		60.0	25.0	1.000020
67000.0	54.6	-57.9		88.4	571.6		60.3	25.9	1.000020
67500.0	53.3	-57.8		86.2	571.7		82.9	27.2	1.000019
68000.0	52.0	-57.7		84.1	571.9		85.5	28.7	1.000019
68500.0	50.8	-57.6		82.1	572.0		87.9	30.2	1.000018
69000.0	49.6	-57.2		80.0	572.5		90.2	31.0	1.000018
69500.0	48.4	-56.4		77.9	573.6		92.3	31.7	1.000017
70000.0	47.3	-55.5		75.7	574.7		94.4	32.5	1.000017
70500.0	46.2	-54.7		73.7	575.9		96.1	32.0	1.000016
71000.0	45.1	-53.8		71.7	577.0		97.7	31.3	1.000016
71500.0	44.1	-53.0		69.7	578.1		99.4	30.6	1.000016
72000.0	43.0	-52.9		68.1	578.1		99.1	29.7	1.000015
72500.0	42.0	-53.0		66.5	578.0		97.9	28.8	1.000015
73000.0	41.1	-53.1		65.0	578.0		96.6	28.0	1.000014
73500.0	40.1	-53.1		63.5	577.9		95.6	26.8	1.000014
74000.0	39.2	-53.2		62.0	577.8		94.9	25.4	1.000014
74500.0	38.3	-53.2		60.6	577.8		94.1	24.0	1.000014
75000.0	37.4	-53.3		59.2	577.7		93.5	23.2	1.000013
75500.0	36.5	-53.3		57.9	577.6		93.4	23.4	1.000013
76000.0	35.7	-53.4		56.5	577.6		93.3	23.7	1.000013
76500.0	34.8	-53.4		55.2	577.5		92.9	24.3	1.000012
77000.0	34.0	-53.5		54.0	577.4		91.4	26.4	1.000012
77500.0	33.2	-53.5		52.7	577.4		90.0	28.4	1.000012
78000.0	32.5	-53.6		51.5	577.3		88.9	30.5	1.000011
78500.0	31.7	-53.4		50.3	577.5		88.0	31.9	1.000011

UPPER AIR DATA
 2050030184
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STATION ALTITUDE 4051.00 FEET MSL
 23 JULY 76
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0750 HRS MDT

WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

TABLE XIV (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	31.0	-52.9		49.0	578.2	87.2	33.1	1.000011
79500.0	30.3	-52.4		47.8	578.8	86.5	34.3	1.000011
80000.0	29.6	-52.1		46.6	579.2	86.3	34.5	1.000010
80500.0	28.9	-51.9		45.5	579.5	86.9	33.1	1.000010
81000.0	28.2	-51.7		44.4	579.8	87.7	31.7	1.000010
81500.0	27.6	-51.5		43.3	580.0	88.5	30.4	1.000010
82000.0	26.9	-51.3		42.3	580.3			1.000009
82500.0	26.3	-51.1		41.3	580.5			1.000009
83000.0	25.7	-50.9		40.3	580.8			1.000009
83500.0	25.1	-50.7		39.3	581.1			1.000009
84000.0	24.5	-50.5		38.4	581.3			1.000009

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MANDATORY LEVELS
 2050030184
 JALLEN

WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

TABLE XV

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5102.	17.8	13.1	74.	171.5	1.9
800.0	6801.	15.6	10.5	71.	177.0	4.3
750.0	8592.	12.3	8.2	76.	231.2	2.9
700.0	10481.	8.0	4.0	76.	359.2	4.0
650.0	12472.	2.7	-1.1	76.	58.3	6.1
600.0	14585.	-2.	-16.0	29.	46.4	10.0
550.0	16858.	-2.9	-21.9	21.	71.3	15.4
500.0	19315.	-7.7	-23.8	26.	71.2	17.0
450.0	21971.	-14.1	-27.3	31.	56.5	20.1
400.0	24866.	-21.0	-29.7	45.	61.1	30.8
350.0	28076.	-26.1	-43.6	17.	43.8	41.3
300.0	31688.	-32.5	-49.2	17.	48.9	55.4
250.0	35805.	-43.8			47.6	56.2
200.0	40603.	-55.0			39.3	54.0
175.0	43367.	-60.6			45.8	53.8
150.0	46499.	-62.8			66.3	33.3
125.0	50156.	-67.2			53.1	16.4
100.0	54575.	-68.6			122.0	12.8
80.0	58986.	-63.9			82.2	20.9
70.0	61697.	-60.8			88.9	17.5
60.0	64835.	-60.6			81.9	21.1
50.0	68599.	-57.5			89.4	30.7
40.0	73292.	-53.1			95.6	26.7
30.0	79372.	-52.2			86.2	34.7
25.0	83256.	-50.6				

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