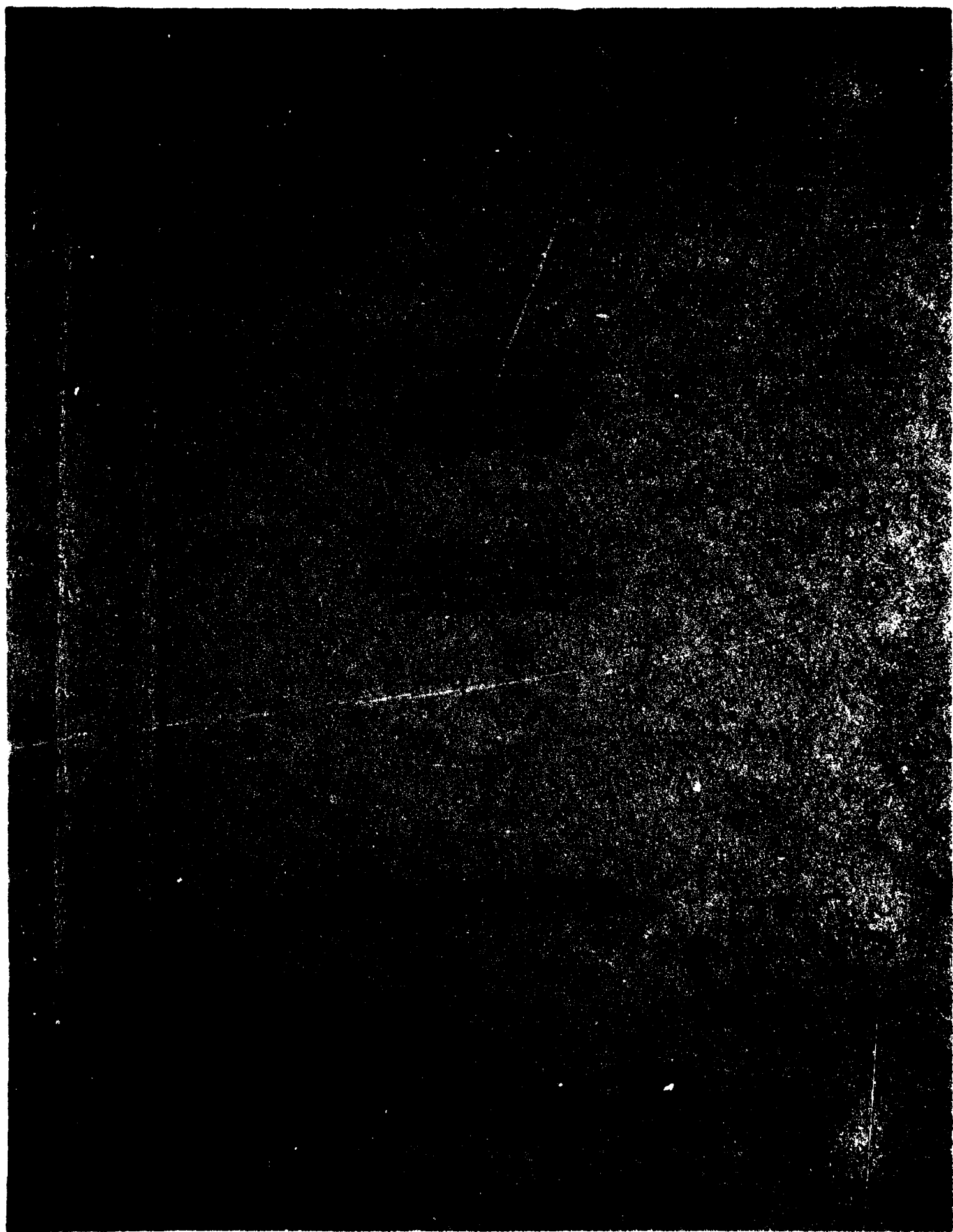
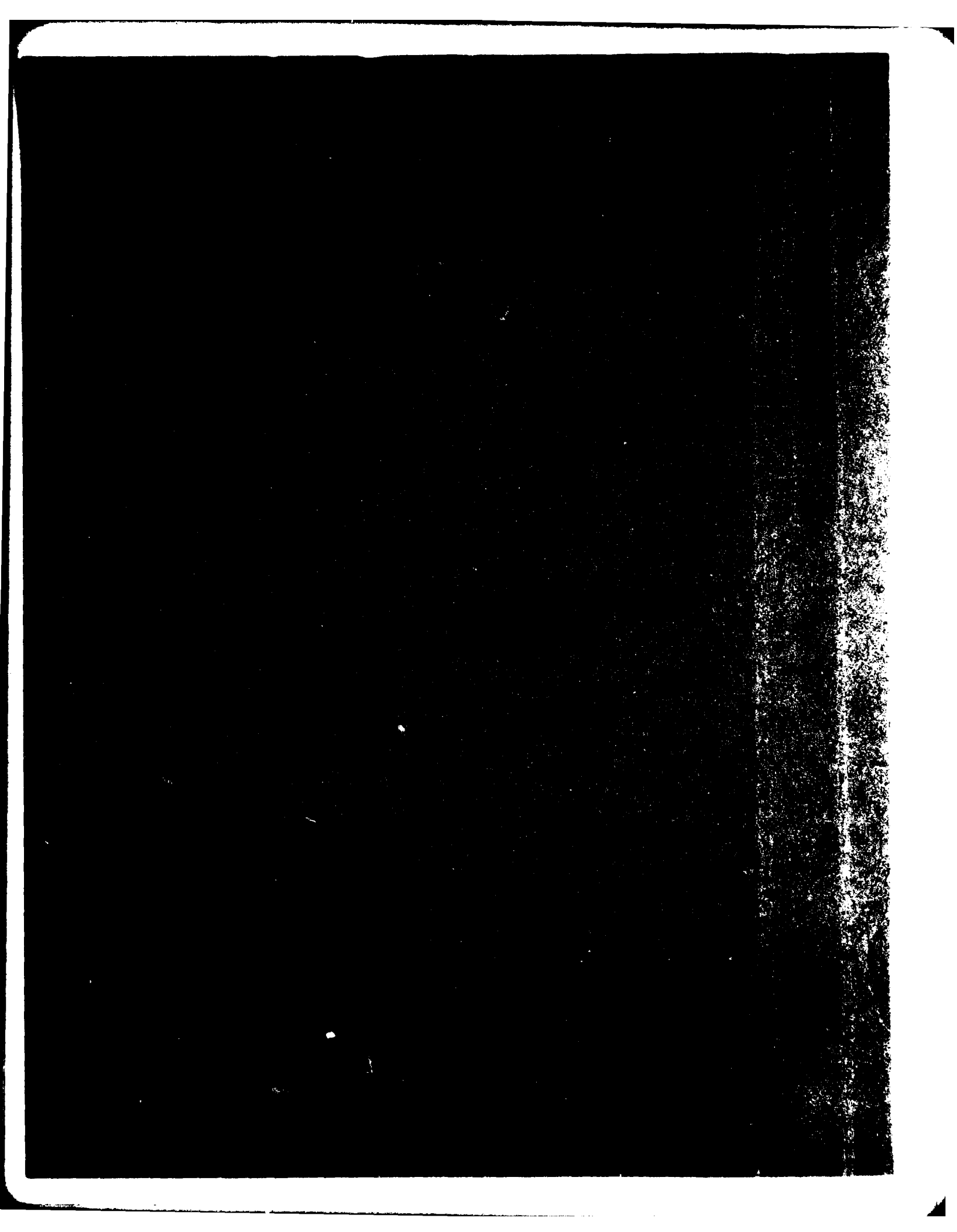


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A





REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
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4. TITLE (and Subtitle) 14818A Lance Missile Number 4587 Round Number 390 APL	5. TYPE OF REPORT & PERIOD COVERED	
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 14818A Lance, Missile Number 4587, Round Number 390 APL are presented in tabular form.		

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INTRODUCTION

14818A Lance, Missile Number 4587, Round Number 390-APL, was launched from LC-39, White Sands Missile Range (WSMR), New Mexico, at 2129:20 MDT, 22 Sep 83. The scheduled launch time was 2100 MDT.

DISCUSSION

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

1. Observations

a. Surface

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

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

b. Upper Air

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

SITE AND ALTITUDE

LC-36 2760 meters

(2) Air structure data (rawinsonde) were collected at the following Met Sites:

SITE AND TIME

WSD 2230 MDT
SMR 2130 MDT



AI

WSMR METEOROLOGICAL SITES

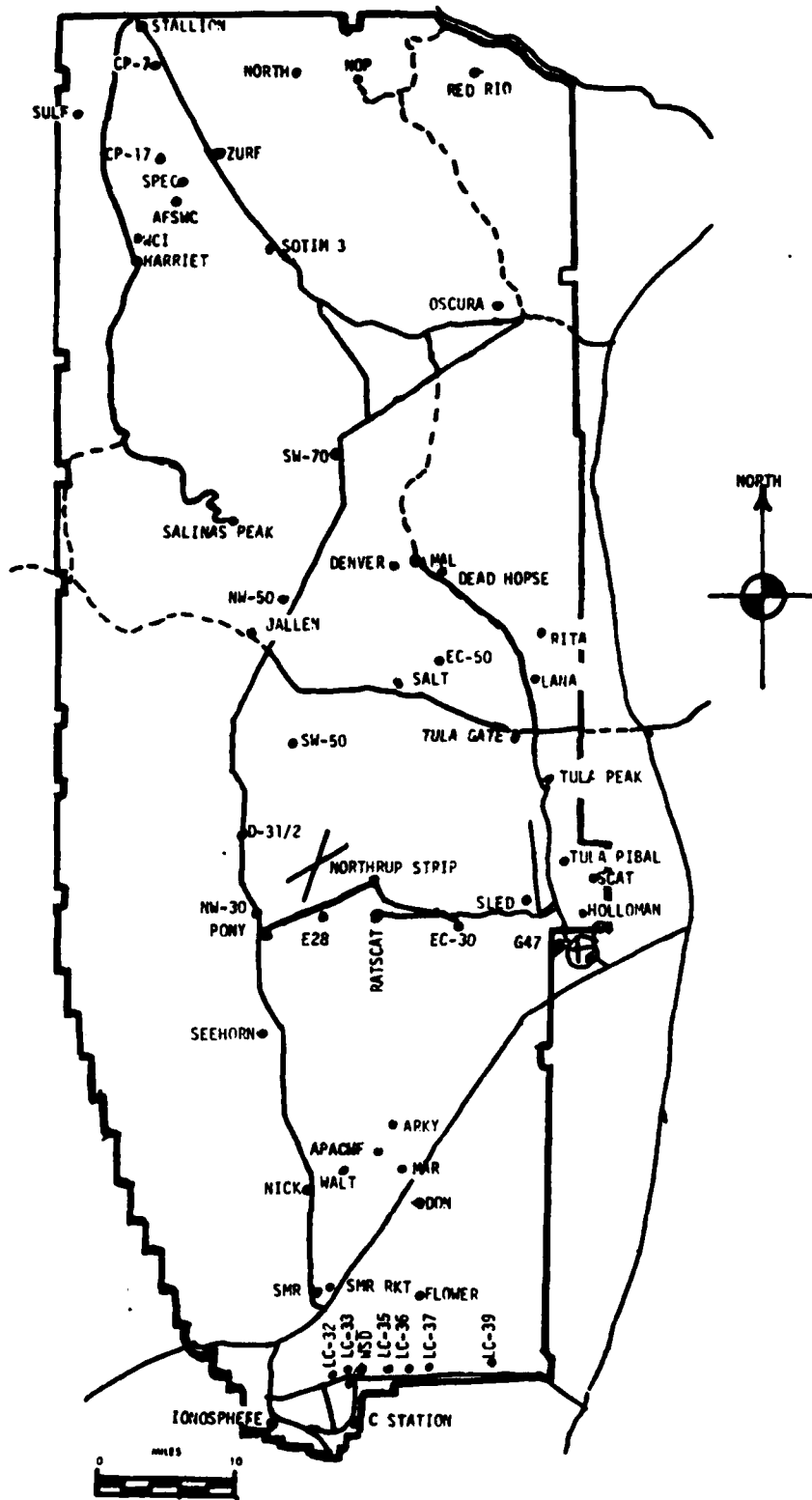


TABLE 1

PROJECT SURFACE OBSERVATION

TABLE GC		STATION LC-39									
DATE 22 Sep 83		X= 530,938.82		Y= 186,564.96		Z= 4063.75					
TIME M D I	PRESSURE INCS	TEMPERATURE OF GC	DEW POINT OF GC	RELATIVE HUMIDITY %	DENSITY SLUGS	DIRECTION DEGS Tn	SPEED KTS	CHARACTER KTS	VISIBIL- ITY	WIND	
										SPEED KTS	DIRECTION DEGS Tn
2130	881.1	24.4	9.0	38	1028.2		calm		30		

OBSTRUCTIONS TO VISIBILITY	CLOUDS						REMARKS	
	1st LAYER		2nd LAYER		3rd LAYER			
	AMT	TYPE	HGT	AMT	TYPE	HGT		
1	SC	5	AS	14,000	3	CS	24,000	H ALQDS

PSYCHROMETRIC COMPUTATION

TIME: MDT	2130	
DRY BULB TEMP.	24.4	
WET BULB TEMP.	15.0	
WET BULB DEPR.	9.2	
DEW POINT	9.0	
RELATIVE HUMID.	38%	

TABLE 4

AIMING AND T-TIME COMPUTER MET MESSAGES
22 September 1983

WSD 2130 MDT
METCM1324064
230350122883

00533004 29850883
01565013 30090873
02547011 29980848
03619002 29670810
04212003 29270765
05381002 28800721
06342004 28320679
07519008 27900639
08558012 27510601
09551013 27140565
10498014 26860530
11482013 26570498
12577011 26120452
13520014 25390396
14495026 24770345
15462035 23990300
16471039 23090260
17493048 22320224
18511055 21670192
19526047 21080164
20514030 20510139
21495024 20040118
22478008 20240099
23500015 20040084
24605017 20670071
25033004 21060060
26000000 21230051

SMR 2130 MDT
METCM1325064
230350122882

00062007 30210882
01598010 30060872
02568009 29840848
03579004 29510810
04315002 29110764
05292005 28670720
06485003 28240678
07501008 27810638
08565007 27520600
09481012 27190564
10485015 26760529
11537011 26470497
12595010 25990450
13473012 25330394
14498024 24670344
15491031 23920299
16471042 23010259
17491050 22130223
18510061 21580191
19528048 21010162
20511033 20440138

STATION ALTITUDE 3989.00 FEET MSL
 22 SEP. 83
 ASCENSION NO. 455

SIGNIFICANT LEVEL DATA
 2650020455
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 5

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE METER FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	
882.7	3789.0	23.8	10.1	42.0
877.6	4156.2	26.9	10.5	36.0
850.0	5080.8	25.4	8.4	34.0
757.2	8174.0	17.6	6.2	47.0
700.0	10557.5	11.2	4.0	61.0
667.8	11843.3	7.4	3.1	74.0
652.5	12470.6	6.3	1.8	73.0
633.2	13278.2	4.0	1.0	81.0
629.6	13430.8	3.5	-1.3	71.0
607.2	14395.8	1.8	-2.7	72.0
573.2	15915.8	-1.8	-4.8	80.0
559.4	17499.9	-4.6	-8.2	76.0
522.4	18320.4	-5.6	-10.4	69.0
514.4	18726.7	-5.8	-13.8	53.0
500.0	19456.3	-7.7	-15.1	55.0
482.3	20375.8	-9.8	-13.1	77.0
472.0	20923.2	-10.9	-13.4	82.0
464.1	21350.4	-10.9	-15.4	69.0
450.7	22090.5	-11.8	-16.8	65.0
443.3	22507.0	-12.9	-18.1	65.0
432.4	23129.9	-14.7	-18.8	71.0
413.1	24263.4	-17.0	-20.5	74.0
400.0	25056.2	-19.3	-20.8	88.0
381.9	26185.6	-21.4	-23.1	86.0
356.1	27875.3	-24.1	-29.3	62.0
347.4	28467.9	-25.4	-30.2	64.0
342.9	28774.9	-26.3	-31.9	59.0
329.5	29726.0	-27.4	-34.2	52.0
300.0	31922.7	-33.3	-37.7	64.0
283.4	33229.2	-37.2	-40.2	73.0
277.5	33706.3	-39.0	-42.8	67.0
250.0	36037.6	-44.2		
238.7	37052.6	-47.2		
200.0	40845.0	-54.8		
177.5	43333.6	-59.5		
150.0	46758.5	-65.4		
122.5	50753.3	-72.5		
118.7	51364.2	-72.5		
106.0	53548.5	-74.3		
103.0	54107.6	-69.0		

STATION ALTITUDE 5989.00 FEET MSL
 22 SEP. 83
 ASCENSION NO. 455

SIGNIFICANT LEVEL DATA
 2650020455
 WHITE SANDS
 TABLE 5 Con't

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
110.0	50690.1	-69.5		
70.1	59500.4	-74.2		
70.0	61661.6	-63.9		
50.0	68523.8	-60.8		
41.4	72470.1	-53.5		
30.0	79370.1	-50.4		
20.0	88106.6	-47.2		
14.3	95615.5	-42.5		
11.8	99887.1	-45.7		
10.0	103579.1	-41.1		
8.2	108045.0	-41.8		

UPPER AIR DATA
 2650020455
 WHITE SANDS
 TABLE 6

STATION ALTITUDE 3989.00 FEET MSL
 22 SEP. 83
 ASCENSION NO. 455
 2230 MDT

GEODLTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPPOINT DEGREE CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
3989.0	882.7	23.8	10.1	42.0	1030.0	673.1	300.0	4.1	1.000283
4000.0	882.4	24.0	10.2	41.6	1028.9	673.3	300.2	4.1	1.000283
4500.0	867.2	26.3	9.7	35.3	1003.7	675.9	306.5	4.6	1.000275
5000.0	852.4	25.5	8.6	34.2	989.5	674.9	311.6	5.1	1.000268
5500.0	837.6	24.4	8.2	35.7	975.8	673.7	315.7	5.7	1.000264
6000.0	823.0	23.2	8.0	37.6	962.6	672.3	320.1	5.0	1.000261
6500.0	808.7	22.0	7.7	39.6	949.7	671.0	357.6	2.1	1.000257
7000.0	794.6	20.9	7.3	41.6	936.9	669.6	50.8	1.0	1.000254
7500.0	780.8	19.7	6.9	43.5	924.4	668.3	94.6	1.7	1.000250
8000.0	767.2	18.5	6.5	45.5	912.1	666.9	119.1	2.4	1.000246
8500.0	753.8	17.2	6.1	47.8	900.0	665.4	134.4	3.3	1.000243
9000.0	740.3	15.8	5.7	51.0	888.5	663.7	153.0	4.0	1.000240
9500.0	727.1	14.3	5.2	54.2	877.2	662.0	166.4	4.5	1.000236
10000.0	714.2	12.8	4.6	57.4	866.0	660.3	179.4	3.9	1.000232
10500.0	701.4	11.4	4.0	60.6	855.1	658.6	198.8	3.4	1.000229
11000.0	688.7	9.9	3.7	65.5	844.0	656.9	227.5	3.2	1.000226
11500.0	676.2	8.4	3.4	70.5	833.0	655.1	252.4	3.9	1.000223
12000.0	663.9	7.1	2.8	73.8	821.7	653.6	266.9	5.2	1.000219
12500.0	651.8	6.2	1.8	73.3	809.5	652.5	282.4	6.5	1.000214
13000.0	639.8	4.8	1.3	78.2	798.7	650.8	295.2	8.1	1.000211
13500.0	628.0	3.4	-1.4	71.1	788.5	648.9	302.6	9.4	1.000203
14000.0	616.3	2.5	-2.1	71.6	776.4	647.8	307.7	10.6	1.000199
14500.0	604.8	1.6	-2.8	72.5	764.6	646.7	314.2	11.6	1.000195
15000.0	593.4	.4	-3.5	75.2	753.6	645.3	322.0	12.6	1.000192
15500.0	582.3	-0.8	-4.2	77.8	742.7	643.8	322.2	13.2	1.000188
16000.0	571.4	-1.9	-5.0	79.8	731.9	642.5	317.1	13.4	1.000185
16500.0	560.5	-2.8	-6.0	78.5	720.4	641.4	302.4	13.3	1.000181
17000.0	549.8	-3.7	-7.1	77.3	709.2	640.3	283.7	14.2	1.000177
17500.0	539.4	-4.6	-8.2	76.0	698.1	639.2	280.8	13.9	1.000173
18000.0	529.1	-5.2	-9.5	71.8	686.4	638.4	279.2	13.4	1.000169
18500.0	518.9	-5.7	-11.8	62.1	674.7	637.7	278.9	12.4	1.000163
19000.0	509.0	-6.5	-14.3	53.7	664.0	636.6	277.4	12.3	1.000159
19500.0	499.1	-7.8	-15.0	56.0	654.4	635.1	275.0	13.2	1.000156
20000.0	489.5	-8.9	-13.7	68.0	644.5	633.8	281.9	13.7	1.000155
20500.0	479.9	-10.0	-13.1	78.1	634.4	632.5	291.3	14.3	1.000153
21000.0	470.6	-10.9	-13.7	79.7	624.4	631.4	304.7	12.8	1.000151
21500.0	461.4	-11.1	-15.7	68.4	612.4	631.1	319.4	11.8	1.000146
22000.0	452.3	-11.7	-16.7	66.4	601.8	630.4	331.9	10.6	1.000143
22500.0	443.4	-12.9	-18.1	65.0	592.8	628.9	339.3	10.3	1.000140
23000.0	434.7	-14.3	-18.6	69.7	584.5	627.1	358.5	10.6	1.000138

UPPER AIR DATA
 2650020455
 WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
 22 SEP. 83
 ASCENSION NO. 455

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 6 Con't

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
23500.0	420.0	-15.5	-19.3	72.0	575.2	625.8	331.9	10.3	1.000136
24000.0	417.5	-16.5	-20.1	73.3	566.0	624.5	321.4	10.0	1.000133
24500.0	409.1	-17.7	-20.5	78.2	557.3	623.0	309.1	10.1	1.000131
25000.0	400.9	-19.1	-20.7	87.0	549.2	621.2	297.5	11.0	1.000129
25500.0	392.8	-20.1	-21.7	87.2	540.2	620.0	289.5	14.1	1.000127
26000.0	384.8	-21.1	-22.7	86.3	531.3	618.9	285.5	17.4	1.000124
26500.0	377.0	-21.9	-24.2	81.5	522.2	617.8	284.2	20.7	1.000121
27000.0	369.2	-22.7	-26.0	74.4	513.2	616.8	282.9	22.6	1.000119
27500.0	361.7	-23.5	-27.8	67.3	504.4	615.7	281.7	23.7	1.000116
28000.0	354.3	-24.4	-29.5	62.4	495.8	614.6	279.8	24.8	1.000114
28500.0	346.9	-25.5	-30.4	63.5	487.6	613.2	278.3	25.9	1.000112
29000.0	339.7	-26.6	-32.4	57.4	479.7	611.9	277.6	27.1	1.000109
29500.0	332.6	-27.1	-33.6	53.7	470.9	611.2	276.3	28.5	1.000107
30000.0	325.7	-28.1	-34.6	53.5	462.9	609.9	273.5	30.3	1.000105
30500.0	318.8	-29.5	-35.4	56.2	455.6	608.2	270.2	32.2	1.000103
31000.0	312.1	-30.8	-36.2	59.0	448.5	606.6	265.5	34.3	1.000102
31500.0	305.5	-32.2	-37.0	61.7	441.4	604.9	261.2	35.7	1.000100
32000.0	299.0	-33.5	-37.9	64.5	434.6	603.1	256.8	35.7	1.000098
32500.0	292.5	-35.0	-38.8	68.0	427.9	601.3	254.5	35.4	1.000097
33000.0	286.2	-36.5	-39.8	71.4	421.3	599.4	253.4	35.0	1.000095
33500.0	280.0	-38.2	-41.7	69.6	415.2	597.2	256.2	35.9	1.000094
34000.0	273.9	-39.7	-44.6	58.6**	408.5	595.3	259.2	37.1	1.000092
34500.0	267.8	-40.8	-48.2	44.2**	401.4	593.9	261.8	37.9	1.000090
35000.0	261.9	-41.9	-52.5	29.8**	394.5	592.5	264.6	38.4	1.000088
35500.0	256.1	-43.0	-58.8	15.5**	387.6	591.0	267.9	38.7	1.000086
36000.0	250.4	-44.1	-78.1	1.1**	380.9	589.6	271.1	40.0	1.000085
36500.0	244.8	-45.6			374.7	587.7	274.1	41.9	1.000083
37000.0	239.3	-47.0			368.7	585.8	275.3	45.6	1.000082
37500.0	233.8	-48.1			361.9	584.4	276.0	48.4	1.000081
38000.0	228.4	-49.1			355.1	583.1	276.2	50.0	1.000079
38500.0	223.1	-50.1			348.5	581.8	276.9	49.1	1.000078
39000.0	218.0	-51.1			342.0	580.5	277.8	48.4	1.000076
39500.0	212.9	-52.1			335.6	579.2	279.2	49.0	1.000075
40000.0	208.0	-53.1			329.4	577.9	280.4	50.5	1.000073
40500.0	203.2	-54.1			323.2	576.6	281.9	52.8	1.000072
41000.0	198.5	-55.1			317.1	575.3	284.9	57.2	1.000071
41500.0	193.8	-56.0			311.0	574.0	287.6	58.4	1.000069
42000.0	189.2	-57.0			304.9	572.8	290.2	57.6	1.000068
42500.0	184.7	-57.9			299.0	571.5	291.6	55.2	1.000067
43000.0	180.4	-58.4			293.2	570.3	292.9	54.8	1.000065

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

UPPER AIR DATA
 2650020455
 WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
 22 SEP. 83
 ASCENSIJN NO. 455

2230 MDI

TABLE 6 Con't

GEODETIC COORDINATES
 32-40043 LAT DEG
 106-37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
43500.0	170.1	-59.8		287.4	569.1	294.1	56.4	1.000064
44000.0	171.8	-60.6		281.6	567.9	295.1	56.2	1.000063
44500.0	167.6	-61.5		275.9	566.8	295.8	53.9	1.000061
45000.0	163.5	-62.4		270.3	565.6	296.3	48.0	1.000060
45500.0	159.6	-63.2		264.8	564.4	296.3	41.3	1.000059
46000.0	155.7	-64.1		259.4	563.3	295.8	34.5	1.000058
46500.0	151.9	-65.0		254.2	562.1	293.7	32.5	1.000057
47000.0	148.2	-65.8		249.0	560.9	292.1	31.1	1.000055
47500.0	144.5	-66.7		243.8	559.7	291.4	30.5	1.000054
48000.0	140.8	-67.6		238.7	558.5	290.0	29.5	1.000053
48500.0	137.3	-68.5		233.8	557.3	287.9	28.4	1.000052
49000.0	133.9	-69.4		228.9	556.1	283.4	25.8	1.000051
49500.0	130.5	-70.3		224.1	554.9	277.8	23.6	1.000050
50000.0	127.3	-71.2		219.5	553.7	278.2	25.4	1.000049
50500.0	124.1	-72.0		214.9	552.5	278.4	27.2	1.000048
51000.0	121.0	-72.5		210.0	551.8	279.3	28.7	1.000047
51500.0	117.9	-72.6		204.8	551.7	280.3	30.1	1.000046
52000.0	114.9	-73.0		199.9	551.1	281.1	29.5	1.000045
52500.0	111.9	-73.4		195.2	550.6	281.8	23.3	1.000043
53000.0	109.1	-73.8		190.6	550.0	283.0	17.1	1.000042
53500.0	106.3	-74.3		186.1	549.4	283.1	15.0	1.000041
54000.0	103.6	-70.0		177.6	555.2	283.0	13.1	1.000040
54500.0	101.0	-69.3		172.6	556.2	278.9	12.1	1.000038
55000.0	98.4	-69.8		168.6	555.5	273.1	11.4	1.000038
55500.0	95.9	-70.3		164.7	554.9	261.5	9.4	1.000037
56000.0	93.5	-70.8		160.9	554.2	258.0	7.4	1.000036
56500.0	91.1	-71.3		157.2	553.5	234.5	7.6	1.000035
57000.0	88.8	-71.8		153.6	552.9	249.2	9.1	1.000034
57500.0	86.6	-72.2		150.1	552.2	268.0	10.2	1.000033
58000.0	84.4	-72.7		146.6	551.5	285.8	12.1	1.000033
58500.0	82.2	-73.2		143.3	550.8	290.5	17.0	1.000032
59000.0	80.1	-73.7		140.0	550.2	292.1	22.4	1.000031
59500.0	78.1	-74.2		136.8	549.5	302.8	22.2	1.000030
60000.0	76.1	-71.8		131.8	552.8	314.1	22.2	1.000029
60500.0	74.2	-69.4		127.0	556.0	331.7	18.9	1.000028
61000.0	72.4	-67.1		122.4	559.3	351.1	17.5	1.000027
61500.0	70.6	-64.7		117.9	562.5	357.3	15.6	1.000026
62000.0	68.8	-63.7		114.5	563.8	4.6	13.8	1.000026
62500.0	67.2	-63.5		111.6	564.1	11.6	12.4	1.000025
63000.0	65.6	-63.3		108.8	564.4	18.2	10.9	1.000024

UPPER AIR DATA
 2650020455
 WHITE SANDS
 TABLE 6 Con't

STATION ALTITUDE 3989.00 FEET MSL
 22 SEP. 83
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GEOMETRIC ALTITUDE 3989.00 FEET MSL
 22 SEP. 83
 ASCENSION NO. 455

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
63500.0	64.0	-63.1		106.1	564.7	18.4	8.3	1.000024
64000.0	62.4	-62.8		103.4	565.0	18.9	5.7	1.000023
64500.0	60.9	-62.6		100.8	565.3	21.8	2.7	1.000022
65000.0	59.4	-62.4		98.2	565.6	93.8	.3	1.000022
65500.0	58.0	-62.2		95.8	565.9	52.4	.8	1.000021
66000.0	56.6	-61.9		93.3	566.2	44.8	1.4	1.000021
66500.0	55.2	-61.7		91.0	566.5	49.3	2.2	1.000020
67000.0	53.9	-61.5		88.7	566.8	51.6	3.0	1.000020
67500.0	52.6	-61.3		86.4	567.1	71.3	2.8	1.000019
68000.0	51.3	-61.0		84.3	567.4	96.6	2.8	1.000019
68500.0	50.1	-60.8		82.1	567.7	101.3	1.4	1.000018
69000.0	48.9	-59.9		79.8	568.9	289.4	.7	1.000018
69500.0	47.7	-59.0		77.6	570.1	284.9	4.1	1.000017
70000.0	46.6	-58.1		75.5	571.3	284.5	8.2	1.000017
70500.0	45.5	-57.1		73.4	572.6	281.9	9.6	1.000016
71000.0	44.4	-56.2		71.3	573.8	278.5	9.9	1.000016
71500.0	43.4	-55.3		69.3	575.0	264.9	6.6	1.000015
72000.0	42.3	-54.4		67.4	576.2	218.4	3.9	1.000015
72500.0	41.3	-53.5		65.6	577.4	181.1	5.6	1.000015
73000.0	40.4	-53.3		64.0	577.7	167.2	8.4	1.000014
73500.0	39.5	-53.0		62.4	578.0	167.2	8.7	1.000014
74000.0	38.5	-52.8		60.9	578.3	168.7	8.5	1.000014
74500.0	37.7	-52.6		59.5	578.6	154.3	7.1	1.000013
75000.0	36.8	-52.4		58.0	578.9	131.3	6.4	1.000013
75500.0	35.9	-52.1		56.6	579.2	116.1	6.9	1.000013
76000.0	35.1	-51.9		55.3	579.5	105.1	7.9	1.000012
76500.0	34.3	-51.7		54.0	579.8	103.0	9.3	1.000012
77000.0	33.5	-51.5		52.7	580.0	102.0	10.7	1.000012
77500.0	32.7	-51.2		51.4	580.3	103.1	10.2	1.000011
78000.0	32.0	-51.0		50.2	580.6	104.4	9.7	1.000011
78500.0	31.2	-50.8		48.9	580.9	105.8	9.0	1.000011
79000.0	30.5	-50.6		47.8	581.2	107.9	8.2	1.000011
79500.0	29.8	-50.4		46.6	581.5	112.6	7.3	1.000010
80000.0	29.1	-50.2		45.5	581.7	117.2	6.3	1.000010
80500.0	28.5	-50.0		44.5	582.0	117.7	5.0	1.000010
81000.0	27.8	-49.8		43.4	582.2	113.3	4.2	1.000010
81500.0	27.2	-49.6		42.4	582.4	97.1	4.7	1.000009
82000.0	26.6	-49.4		41.4	582.7	88.1	5.7	1.000009
82500.0	26.0	-49.3		40.4	582.9	87.5	6.7	1.000009
83000.0	25.4	-49.1		39.5	583.2	86.2	7.9	1.000009

UPPER AIR DATA
 2650020455
 WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
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GEOMETRIC ALTITUDE 3989.00 FEET MSL
 22 SEP. 83
 ASCENSION NO. 455

TABLE 6 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	WETPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
83500.0	24.8	-48.9			30.5	583.4	84.1	9.2	1.000009
84000.0	24.2	-48.7			37.6	583.6	83.1	10.0	1.000008
84500.0	23.7	-48.5			36.8	583.9	83.2	10.0	1.000008
85000.0	23.2	-48.4			35.9	584.1	84.0	10.3	1.000008
85500.0	22.6	-48.2			35.0	584.3	85.6	11.0	1.000008
86000.0	22.1	-48.0			34.2	584.6	87.9	11.4	1.000008
86500.0	21.6	-47.8			33.4	584.8	91.1	11.5	1.000007
87000.0	21.1	-47.6			32.6	585.0	98.5	12.0	1.000007
87500.0	20.6	-47.4			31.9	585.3	109.3	13.5	1.000007
88000.0	20.2	-47.3			31.1	585.5	117.7	15.1	1.000007
88500.0	19.7	-47.0			30.4	585.9	124.7	16.6	1.000007
89000.0	19.3	-46.7			29.7	586.3	131.8	17.3	1.000007
89500.0	18.8	-46.4			29.0	586.7	140.6	17.2	1.000006
90000.0	18.4	-46.1			28.3	587.1	145.1	16.2	1.000006
90500.0	18.0	-45.7			27.6	587.5	142.2	13.5	1.000006
91000.0	17.6	-45.4			26.9	587.9	134.5	10.6	1.000006
91500.0	17.2	-45.1			26.3	588.3	112.7	8.1	1.000006
92000.0	16.8	-44.8			25.7	588.7	92.1	7.3	1.000006
92500.0	16.5	-44.5			25.1	589.1	95.1	6.7	1.000006
93000.0	16.1	-44.2			24.5	589.5	99.8	6.0	1.000005
93500.0	15.7	-43.8			23.9	589.9	110.4	4.9	1.000005
94000.0	15.4	-43.5			23.3	590.3	118.6	4.6	1.000005
94500.0	15.0	-43.2			22.8	590.8	109.6	6.8	1.000005
95000.0	14.7	-42.9			22.2	591.2	105.7	8.7	1.000005
95500.0	14.4	-42.6			21.7	591.6	105.6	9.1	1.000005
96000.0	14.1	-42.8			21.3	591.3	105.4	8.7	1.000005
96500.0	13.7	-43.2			20.8	590.8	104.4	4.6	1.000005
97000.0	13.4	-43.5			20.4	590.3	99.2	.8	1.000005
97500.0	13.1	-43.9			20.0	589.8	249.7	1.0	1.000004
98000.0	12.8	-44.3			19.6	589.4	255.2	2.6	1.000004
98500.0	12.6	-44.7			19.1	588.9	205.3	2.6	1.000004
99000.0	12.3	-45.0			18.8	588.4	176.0	4.0	1.000004
99500.0	12.0	-45.4			18.4	587.9	159.3	5.6	1.000004
100000.0	11.7	-45.6			18.0	587.7	150.4	7.4	1.000004
100500.0	11.5	-44.9			17.5	588.5	148.6	8.4	1.000004
101000.0	11.2	-44.3			17.1	589.3	147.3	9.4	1.000004
101500.0	11.0	-43.7			16.7	590.1	157.2	10.5	1.000004
102000.0	10.7	-43.1			16.3	590.9	165.7	11.9	1.000004
102500.0	10.5	-42.4			15.8	591.7	174.1	12.4	1.000004
103000.0	10.3	-41.4			15.5	592.5	182.1	13.0	1.000003

UPPER AIR DATA
 2650020455
 WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
 22 SEP. 83
 ASCENSION NO. 455

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 6 Con't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
103500.0	10.0	-41.2		15.1	593.3	182.0	10.5	1.000003
104000.0	9.8	-41.2		14.7	593.4	175.1	6.6	1.000003
104500.0	9.6	-41.2		14.4	593.3	153.3	3.2	1.000003
105000.0	9.4	-41.3		14.1	593.2	77.4	2.4	1.000003
105500.0	9.2	-41.4		13.8	593.1	43.1	4.2	1.000003
106000.0	9.0	-41.5		13.5	593.0	35.7	5.0	1.000003
106500.0	8.8	-41.6		13.2	592.9			1.000003
107000.0	8.6	-41.6		12.9	592.8			1.000003
107500.0	8.4	-41.7		12.6	592.7			1.000003
108000.0	8.2	-41.8		12.4	592.6			1.000003

STATION ALTITUDE 3949.00 FEET MSL
 22 SEP. 83
 ASCENSION NO. 455 2230 NDT

MANDATORY LEVELS
 2650020455
 WHITE SANDS

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 7

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TM)	SPEED KNOTS
850.0	5077.	25.4	8.4	34.	312.3	5.2
800.0	6813.	21.3	7.5	41.	26.8	1.1
750.0	8634.	16.8	6.0	49.	139.5	3.5
700.0	10547.	11.2	4.0	61.	201.6	3.3
650.0	12560.	6.0	1.7	74.	284.5	6.7
600.0	14694.	1.1	-3.1	74.	317.6	12.0
550.0	16972.	-3.7	-7.1	77.	284.2	14.2
500.0	19429.	-7.7	-15.1	55.	275.2	13.1
450.0	22095.	-11.9	-17.0	66.	335.3	10.4
400.0	25014.	-19.3	-20.8	88.	296.6	11.2
350.0	28237.	-25.0	-29.9	63.	278.9	25.4
300.0	31858.	-33.3	-37.7	64.	257.6	35.7
250.0	35958.	-44.2			271.2	40.1
200.0	40745.	-54.8			283.9	55.6
175.0	43513.	-60.0			294.3	56.4
150.0	46631.	-65.4			292.6	31.6
125.0	50215.	-71.8			278.4	26.6
100.0	54520.	-69.5			277.1	11.9
80.0	58841.	-73.7			292.1	22.5
70.0	61449.	-63.9			359.1	15.1
60.0	64559.	-62.5			28.9	1.2
50.0	68265.	-60.8			101.4	1.4
40.0	72910.	-53.2			166.2	8.7
30.0	79030.	-50.4			110.8	7.6
25.0	82945.	-49.0			85.0	8.6
20.0	87771.	-47.2			119.8	15.5
15.0	94074.	-43.2			109.6	6.8
10.0	103016.	-41.1			181.8	10.3

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

STATION ALTITUDE 3997.30 FEET MSL
 22 SEP. 63
 ASCENSION NO. 209

SIGNIFICANT LEVEL DATA
 7650060209
 S M M
 TABLE 8

GEODETIC COORDINATES
 32.48034 LAT UEG
 106.42307 LONG UEG

PRESSURE GEOMETRIC ALTITUDE MILLIBARMS M/L FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
882.1	14.1	45.0
876.0	5.9	27.0
850.0	4.1	27.0
760.4	3.0	40.0
700.0	.8	51.0
624.4	-3.1	66.0
581.6	-5.9	63.0
529.0	-7.5	93.0
500.0	-11.6	78.0
459.6	-16.7	75.0
454.1	-18.2	69.0
424.7	-20.7	65.0
403.1	-22.5	76.0
400.0	-22.8	76.0
386.9	-24.7	73.0
368.3	-26.8	59.0
350.3	-33.5	56.0
322.3	-37.7	44.0
300.0	-41.5	45.0
291.7	-42.2	50.0
277.5	-43.7	62.0
250.0		
218.7		
200.0		
175.1		
150.0		
123.9		
112.7		

STATION ALTITUDE 3997.30 FEET MSL
 22 SEP. 83
 ASCENSION NO. 209

2130 MDT

UPPER AIR DATA
 2650060209

S M K

TABLE 9

GEODETIC COORDINATES
 32.48034 LAT UEG
 106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPLD OF SOUND KNOTS	WIND DIRECTION DEGREES(TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
3997.3	882.1	27.0	45.0	1.016.7	677.3	35.0	7.0	1.000294
4000.0	882.0	27.0	44.8	1.016.7	677.3	34.9	7.0	1.000294
4500.0	865.9	25.7	27.0	1.006.7	674.8	18.6	5.8	1.000262
5000.0	852.0	24.5	27.0	993.6	673.3	356.9	5.3	1.000257
5500.0	837.1	23.2	28.8	980.3	671.9	334.7	5.7	1.000254
6000.0	822.5	22.0	30.8	967.0	670.6	318.8	6.4	1.000251
6500.0	808.1	20.8	32.9	954.1	669.2	321.4	4.5	1.000248
7000.0	794.0	19.6	35.0	941.3	667.8	327.4	2.5	1.000245
7500.0	780.1	18.4	37.0	928.7	666.4	316.9	.7	1.000242
8000.0	765.5	17.1	39.1	916.3	665.0	163.0	1.2	1.000239
8500.0	752.9	15.9	41.3	904.1	663.5	164.4	3.5	1.000235
9000.0	739.4	14.5	43.7	892.1	662.0	164.7	4.8	1.000232
9500.0	725.2	13.2	46.1	880.2	660.5	164.8	5.1	1.000229
10000.0	713.2	11.9	48.5	868.6	658.9	168.5	3.8	1.000225
10500.0	700.4	10.5	50.9	857.1	657.3	176.7	2.5	1.000222
11000.0	687.6	9.3	53.3	845.3	655.8	232.6	2.3	1.000218
11500.0	675.0	8.0	55.8	833.6	654.3	266.1	4.0	1.000214
12000.0	662.6	6.7	58.2	822.1	652.8	275.6	5.6	1.000211
12500.0	650.4	5.4	60.6	810.8	651.3	280.3	7.1	1.000207
13000.0	638.5	4.1	63.1	799.7	649.7	288.1	7.7	1.000204
13500.0	626.8	2.9	65.5	788.8	648.2	302.2	7.5	1.000200
14000.0	615.1	2.1	65.4	776.3	647.3	310.6	7.8	1.000196
14500.0	603.6	1.5	64.6	763.5	646.5	308.2	7.9	1.000192
15000.0	592.4	.9	63.8	751.0	645.8	299.9	8.0	1.000188
15500.0	581.3	.3	63.2	738.8	645.0	282.2	8.7	1.000185
16000.0	570.3	-1.1	69.2	728.4	643.4	271.5	10.1	1.000182
16500.0	559.4	-2.5	75.3	718.3	641.7	268.1	11.7	1.000180
17000.0	548.8	-3.9	81.4	708.3	640.0	267.8	13.1	1.000177
17500.0	538.4	-5.3	87.4	698.5	638.4	270.9	14.2	1.000175
18000.0	528.1	-6.7	92.6	688.7	636.8	273.8	15.0	1.000172
18500.0	517.9	-7.5	87.4	677.2	635.9	280.1	13.9	1.000167
19000.0	507.9	-8.0	82.2	665.9	635.1	287.4	13.1	1.000163
19500.0	498.1	-8.7	77.9	654.9	634.1	297.8	11.7	1.000159
20000.0	488.3	-9.4	77.2	644.9	632.7	311.3	10.6	1.000156
20500.0	478.6	-10.4	76.5	635.0	631.4	322.4	10.3	1.000153
21000.0	469.4	-12.0	75.0	625.3	630.0	331.5	10.4	1.000150
21500.0	460.2	-13.1	75.0	615.7	628.6	338.0	10.8	1.000147
22000.0	451.1	-13.4	65.9	604.4	628.2	342.5	11.4	1.000143
22500.0	442.2	-14.2	65.6	594.2	627.3	338.1	9.9	1.000140
23000.0	433.4	-14.9	65.3	584.1	626.4	328.7	8.2	1.000137

STATION ALTITUDE 3997.30 FEET MSL
 22 SEP. 83
 ASCENSION NO. 209
 WINDY AIR DATA
 2650060209
 S M K
 TABLE 9 Cont'd
 GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARMS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	WET POINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
23500.0	424.8	-15.7	-20.7	65.0	574.2	625.4	303.7	7.4	1.000135
24000.0	410.3	-17.1	-21.4	69.2	565.9	623.7	278.8	8.2	1.000132
24500.0	407.9	-18.6	-22.1	73.5	557.7	621.9	268.6	9.9	1.000130
25000.0	399.7	-19.7	-22.9	75.9	549.0	620.5	263.4	11.7	1.000128
25500.0	391.6	-20.7	-24.0	74.1	539.8	619.3	262.4	13.2	1.000125
26000.0	383.6	-21.5	-25.4	70.6	530.7	618.2	264.7	14.5	1.000123
26500.0	375.8	-22.3	-27.1	64.7	521.5	617.3	267.0	16.0	1.000120
27000.0	368.1	-23.0	-28.8	59.0	512.4	616.3	271.4	18.3	1.000118
27500.0	360.5	-24.2	-30.0	58.2	504.1	614.9	274.8	20.7	1.000115
28000.0	353.0	-25.3	-31.2	57.5	496.0	613.4	277.5	22.3	1.000113
28500.0	345.7	-26.5	-32.5	56.7	488.0	612.0	279.8	23.9	1.000111
29000.0	338.6	-27.6	-33.7	55.5	480.1	610.6	282.5	24.8	1.000109
29500.0	331.5	-28.4	-35.4	50.5	471.6	609.6	285.6	25.4	1.000107
30000.0	324.5	-29.1	-37.1	45.6	463.2	608.6	287.0	26.2	1.000105
30500.0	317.7	-30.3	-38.5	44.2	455.5	607.2	285.8	27.5	1.000103
31000.0	310.9	-31.6	-39.6	44.5	448.2	605.6	284.6	28.8	1.000101
31500.0	304.3	-32.8	-40.7	44.8	441.1	604.0	279.8	30.2	1.000099
32000.0	297.8	-34.2	-41.6	46.3	434.1	602.3	275.1	32.0	1.000098
32500.0	291.4	-35.6	-42.2	50.2	427.2	600.5	271.0	33.6	1.000096
33000.0	285.1	-37.2	-42.8	55.5	420.8	598.5	267.4	35.1	1.000095
33500.0	278.9	-38.8	-43.5	60.8	414.6	596.4	264.6	36.7	1.000093
34000.0	272.7	-40.1	-46.2	51.7**	407.7	594.7	263.5	38.6	1.000091
34500.0	266.7	-41.4	-49.9	38.4**	400.8	593.1	262.5	40.5	1.000090
35000.0	260.8	-42.6	-54.6	25.1**	394.0	591.6	263.9	41.6	1.000088
35500.0	255.0	-43.8	-61.6	11.7**	387.3	590.0	265.2	42.7	1.000086
36000.0	249.3	-45.1			380.8	588.3	267.5	44.1	1.000085
36500.0	243.6	-46.6			374.5	586.4	270.0	45.7	1.000083
37000.0	238.0	-48.1			368.4	584.5	271.8	47.6	1.000082
37500.0	232.6	-49.5			362.4	582.6	273.1	49.5	1.000081
38000.0	227.3	-51.0			356.4	580.6	274.4	50.7	1.000079
38500.0	222.1	-52.5			350.6	578.7	275.7	50.4	1.000078
39000.0	217.0	-53.7			344.4	577.1	277.1	50.5	1.000077
39500.0	211.9	-54.2			337.1	576.4	278.9	51.7	1.000075
40000.0	206.9	-54.7			330.0	575.7	280.6	53.1	1.000074
40500.0	202.1	-55.3			323.1	575.0	282.5	55.4	1.000072
41000.0	197.3	-56.0			316.5	574.1	284.2	57.7	1.000070
41500.0	192.6	-56.9			310.3	572.9	285.9	60.6	1.000069
42000.0	188.0	-57.8			304.2	571.7	287.4	63.4	1.000068
42500.0	183.5	-58.7			298.2	570.5	288.7	63.6	1.000066
43000.0	179.2	-59.6			292.3	569.3	290.0	63.8	1.000065

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

STATION ALTITUDE 3997.30 FFCT MSL
 22 SEP. 85 2130 MDT
 ASCENSION NO. 209

UPPER AIR DATA
 2650060209
 S M H

GEODETIC COORDINATES
 32.48034 LAT UEG
 106.42307 LONG UEG

TABLE 9 (Cont.)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND METERS PER SECOND	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
43500.0	174.4	-60.5		286.6	568.1	293.0	59.4	1.000064
44000.0	170.7	-61.4		280.8	566.9	296.4	55.2	1.000063
44500.0	167.5	-62.3		275.0	565.8	297.2	51.6	1.000061
45000.0	162.4	-63.1		269.4	564.6	298.1	48.0	1.000060
45500.0	158.5	-64.0		263.9	563.4	297.6	44.0	1.000059
46000.0	154.6	-64.8		258.6	562.3	296.4	39.9	1.000058
46500.0	150.9	-65.7		253.3	561.1	295.0	35.9	1.000056
47000.0	147.1	-66.6		248.1	559.9	293.5	34.1	1.000055
47500.0	143.4	-67.5		242.9	558.7	291.8	32.4	1.000054
48000.0	139.8	-68.3		237.8	557.6	289.8	31.0	1.000053
48500.0	136.3	-69.2		232.8	556.4	286.9	30.8	1.000052
49000.0	132.9	-70.1		228.0	555.2	284.0	30.6	1.000051
49500.0	129.6	-71.0		223.2	554.0	281.2	30.4	1.000050
50000.0	126.3	-71.8		218.6	552.8	279.1	28.4	1.000049
50500.0	123.1	-72.6		213.9	551.7	276.6	26.5	1.000048
51000.0	120.0	-73.2		209.0	550.9			1.000047
51500.0	116.9	-73.7		204.2	550.2			1.000045
52000.0	113.9	-74.3		199.6	549.4			1.000044

STATION ALTITUDE 3997.30 FEET MSL
 22 SEP. 83 .2130 MDT
 ASCENSION NO. 209

MANDATORY LEVELS
 2650060209
 S M K

GEOMETRIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

TABLE 10

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT DEGREE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
850.0	5063.	24.3	4.1	27.	353.9	5.3	
800.0	6790.	20.1	3.8	34.	324.4	3.3	
750.0	8602.	15.6	2.7	42.	164.5	4.0	
700.0	10506.	10.5	.8	51.	177.0	2.5	
650.0	12515.	5.4	-1.6	61.	280.5	7.1	
600.0	14645.	1.3	-4.7	64.	307.5	7.9	
550.0	16928.	-3.8	-6.6	81.	267.4	13.0	
500.0	19375.	-8.5	-11.6	78.	295.3	12.0	
450.0	22030.	-13.5	-18.5	66.	342.9	11.4	
400.0	24941.	-19.7	-22.8	76.	263.7	11.6	
350.0	28159.	-25.8	-31.7	57.	278.4	22.9	
300.0	31769.	-33.7	-41.5	45.	276.7	31.3	
250.0	35061.	-44.9			267.1	43.9	
200.0	40618.	-55.5			283.2	56.3	
175.0	43379.	-60.5			292.8	59.7	
150.0	46489.	-65.9			294.7	55.6	
125.0	50065.	-72.2			278.2	27.7	

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