

AD-A082 979 ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/8 4/2
197018 MLSR, MISSILE NUMBER 214, ROUND NUMBER B-74, 18 JANUARY --ETC(U)
UNCLASSIFIED JAN 80 ERADCOM/ASL-DR-1117 NL

1 OF 1
AD A082979



END
DATE
FILMED
5-80
DTIC

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR 1117	2. GOVT ACCESSION NO. (14) ERAD-EM/ADL-DR-1117	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 19701B MLRS, Missile Number 214, Round Number B-74, 18 January 1980.		5. TYPE OF REPORT & PERIOD COVERED
7. AUTHOR(s) White Sands Meteorological Team	9. PERFORMING ORGANIZATION NAME AND ADDRESS	6. PERFORMING ORG. REPORT NUMBER
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Cmd Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 88002	12. REPORT DATE JAN 1980	8. CONTRACT OR GRANT NUMBER(s) DA Task 1F665702D127 02
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research & Development Cmd Adelphi, MD 20783	13. NUMBER OF PAGES 17	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 12 16
16. DISTRIBUTION STATEMENT (of this Report)	18. SECURITY CLASS. (of this report) UNCLASSIFIED	15. DECLASSIFICATION/DOWNGRADING SCHEDULE
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) Approve for public release; distribution unlimited.		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 19701B MLRS, Missile Number 214, Round Number B-74 are presented in tabular form.		

4/1/80

CONTENTS

	PAGE
INTRODUCTION-----	1
DISCUSSION-----	1
LAUNCH AREA MAP-----	2
GENERAL AREA MAP-----	3
TABLES:	
1. Surface Observations taken at 1200 MST at LC-33-----	4
2. Anemometer Measured Wind Speed and Direction, LC-33 Fixed Pole, taken at 1200 MST-----	5
3. Anemometer Measured Wind Speed and Direction, Tower Levels 1, 2, 3 and 4, taken at 1200 MST-----	5
4. LC-33 Pilot Balloon Measured Wind Data at 1200 MST-----	6
5. Nick Site Pilot Balloon Measured Wind Data at 1200 MST-----	7
6. WSD Significant Level Data at 1200 MST-----	8
7. WSD Upper Air Data at 1200 MST-----	9
8. WSD Mandatory Levels at 1200 MST-----	13

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DDC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	<input type="checkbox"/>
By _____	
Distribution / _____	
Special Handling / _____	
Dist	Accession For Special
<i>A</i>	

INTRODUCTION

19701B MLRS _____, Missile Number 214 _____, Round Number B-74 _____, was launched from LC-33 _____, White Sands Missile Range (WSMR), New Mexico, at 1200 MST _____ on 18 January 1980 _____. The scheduled launch time was 1000 MST _____.

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-33 _____ Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also 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-33 2Km
NICK 2Km

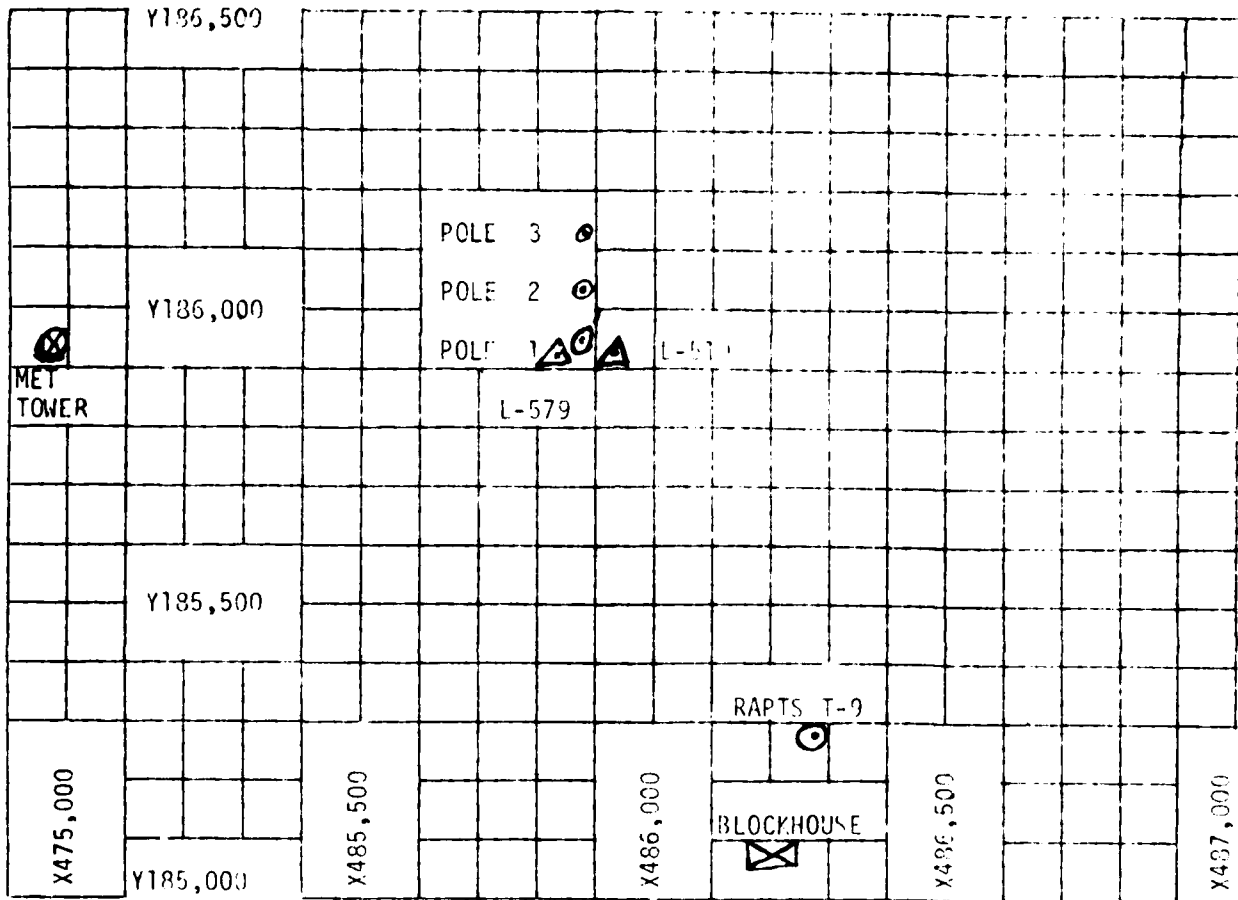
(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 81,000 _____ feet in 500-foot increments.

SITE AND TIME

WSD 1200 MST

THIS PAGE IS BEST QUALITY PRACTICABLE
FROM COPY FURNISHED TO BDC _____

NORTH



1. MET TOWER - 4 Bendix Model T-20 Anemometers at 12 ft, 62 ft, 102 ft, and 202 ft with E/A recorders.
2. POLE ANEMOMETER - Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 - 38.7 ft.
 - (b) Pole #2 - 53.0 ft.
 - (c) Pole #3 - 83.6 ft.
3. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.

TABLE 1. Surface Observations taken at 1200 MST,
 18 January 1980, at LC-33, 19701B MLRS,
 Missile Number 214, Round Number B-74.

ELEVATION	3977.30	FT/MSL
PRESSURE	875.4	MBs
TEMPERATURE	17.2	°C
RELATIVE HUMIDITY	28	
DEW POINT	-1.7	°C
DENSITY	1046	GM/M ³
WIND SPEED	07	KTS
WIND DIRECTION	180	DEGREES
CLOUD COVER	10	Sc

TABLE 2

LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

THIS PAGE IS BEST QUALITY PRACTICABLE
FROM COPY FURNISHED TO DDC

POLE #1 X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL			POLE #2 X485,874.93 Y185,017.00 H4033.57 53.0 ft. AGL			POLE #3 X485,877.29 Y186,116.00 H4063.92 63.6 ft. AGL		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	195	17	-30	200	12	-30	192	14
-20	200	18	-20	215	09	-20	189	14
-10	190	17	-10	195	10	-10	185	16
0.0	200	14	0.0	200	10	0.0	200	12
+10	200	16	+10	195	10	+10	190	14

TABLE 3

LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 12 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #2, 62 FEET X484,982.64, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	181	09	-30	178	11
-20	181	08	-20	192	10
-10	178	07	-10	187	10
0.0	180	07	0.0	175	16
+10	150	10	+10	180	16

LEVEL #3, 102 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #4, 202 FEET X484,982, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	180	12	-30	180	18
-20	186	11	-20	182	18
-10	185	16	-10	180	19
0.0	177	15	0.0	179	17
+10	178	14	+10	179	18

STATION ALTITUDE 9989.00 FEET MSL
 18 JAN. 80
 ASCENSION NO. 26

SIGNIFICANT LEVEL DATA
 0180020026
 WHITE SANDS

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 6

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
876.6	17.3	30.0
850.0	13.9	24.0
790.8	7.8	34.0
732.2	3.3	45.0
700.0	1.4	59.0
657.4	-2.3	73.0
577.6	-9.9	84.0
560.6	-11.6	80.0
543.8	-12.9	58.0
535.4	-13.5	77.0
500.0	-17.3	96.0
479.2	-19.4	99.0
433.2	-23.9	69.0
400.0	-27.9	51.0
376.2	-31.3	60.0
300.0	-44.6	57.0
250.0	-54.8	
217.1	-60.0	
205.2	-55.2	
200.0	-54.4	
196.4	-53.3	
169.0	-55.3	
150.0	-59.0	
137.0	-60.6	
129.6	-60.0	
112.2	-63.2	
100.0	-62.0	
87.6	-62.8	
77.9	-58.0	
70.0	-62.0	
61.0	-66.0	
54.0	-59.9	
50.0	-61.5	
43.0	-57.8	
37.2	-59.0	
30.0	-56.9	
26.0	-56.6	

UPPER AIR DATA
 0180U20026
 WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
 18 JAN. 60
 ASCENSION NO. 26

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 7

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	
3989.0	876.8	17.3	-4	30.0	1048.7	664.8	220.0	15.0	1.000260
4000.0	876.3	17.3	-5	29.9	1048.5	664.7	220.0	15.0	1.000260
4500.0	860.7	15.3	-3.9	26.4	1037.4	662.3	219.7	14.6	1.000252
5000.0	845.3	13.4	-6.3	24.8	1025.7	660.1	219.4	14.3	1.000246
5500.0	829.9	11.9	-6.3	27.3	1012.6	658.3	219.1	14.0	1.000243
6000.0	814.9	10.3	-6.5	29.8	999.7	656.5	218.7	13.7	1.000240
6500.0	800.2	8.8	-6.8	32.4	987.0	654.7	222.0	13.1	1.000237
7000.0	785.0	7.4	-7.0	34.9	973.7	653.1	233.7	12.5	1.000234
7500.0	771.1	6.3	-7.1	37.6	959.5	651.9	241.7	13.4	1.000231
8000.0	756.9	5.2	-7.2	40.3	945.4	650.6	243.1	16.0	1.000228
8500.0	742.9	4.1	-7.3	42.9	931.6	649.3	242.3	19.2	1.000225
9000.0	729.2	3.1	-7.3	46.3	917.8	648.1	240.7	22.6	1.000222
9500.0	715.6	2.3	-6.5	52.1	903.1	647.3	237.4	24.9	1.000220
10000.0	702.3	1.5	-5.8	58.0	886.7	646.4	235.2	27.0	1.000218
10500.0	689.1	.5	-5.8	62.5	875.4	645.1	234.7	28.7	1.000215
11000.0	676.1	-6	-6.0	66.8	862.4	643.8	235.0	30.9	1.000212
11500.0	663.3	-1.8	-6.3	71.0	849.7	642.5	236.1	33.7	1.000209
12000.0	650.7	-2.9	-6.9	73.9	837.0	641.1	237.1	35.9	1.000205
12500.0	638.2	-4.0	-7.7	75.5	824.5	639.7	238.1	37.9	1.000202
13000.0	625.9	-5.2	-8.5	77.2	812.2	638.3	238.9	39.8	1.000198
13500.0	613.9	-6.3	-9.4	78.8	800.0	637.0	239.4	41.3	1.000194
14000.0	602.1	-7.5	-10.2	80.5	788.1	635.6	239.9	42.8	1.000191
14500.0	590.5	-8.6	-11.1	82.1	776.3	634.2	239.2	44.2	1.000187
15000.0	579.2	-9.7	-12.0	83.8	764.7	632.8	237.5	45.5	1.000184
15500.0	567.9	-10.9	-13.4	81.7	753.2	631.4	235.9	46.9	1.000180
16000.0	556.7	-11.9	-15.4	75.0	741.4	630.1	234.6	47.4	1.000175
16500.0	545.8	-12.7	-18.7	60.6	729.4	629.0	233.3	47.8	1.000170
17000.0	535.0	-13.5	-16.7	77.2	717.1	628.1	232.1	48.2	1.000169
17500.0	524.3	-14.7	-16.9	82.8	705.8	626.7	231.9	48.4	1.000166
18000.0	513.9	-15.8	-17.2	88.4	694.8	625.4	231.7	48.5	1.000164
18500.0	503.7	-16.9	-17.6	94.0	683.9	624.0	232.0	49.4	1.000161
19000.0	493.6	-17.9	-18.3	96.9	673.0	622.7	232.5	50.0	1.000158
19500.0	483.8	-18.9	-19.1	98.4	662.1	621.5	234.2	49.2	1.000155
20000.0	473.8	-19.9	-20.4	95.6	651.1	620.3	237.8	48.2	1.000152
20500.0	464.1	-20.8	-22.1	89.5	640.3	619.1	243.6	47.3	1.000149
21000.0	454.7	-21.7	-23.8	83.4	629.5	617.9	243.3	49.3	1.000140
21500.0	445.4	-22.7	-25.5	77.2	619.0	616.8	245.9	52.0	1.000142
22000.0	436.3	-23.6	-27.3	71.1	608.7	615.6	244.1	55.1	1.000140
22500.0	427.3	-24.6	-29.1	65.9	598.6	614.4	242.4	58.2	1.000137
23000.0	418.4	-25.6	-30.9	61.2	588.7	613.0	242.7	60.8	1.000134

STATION ALTITUDE 9989.00 FEET MSL
 18 JAN. 80 1200 HRS MST
 ASCENSION NO. 26

UPPER AIR DATA
 0180020026
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.57033 LON DEG

TABLE 7 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
23500.0	409.7	-26.7	56.4	579.0	611.7	243.1	63.2	1.000131
24000.0	401.2	-27.7	51.7	569.4	610.4	243.3	64.9	1.000129
24500.0	392.8	-28.9	53.7	560.1	608.9	243.4	66.2	1.000127
25000.0	384.5	-30.1	56.8	550.9	607.5	243.4	67.2	1.000125
25500.0	376.4	-31.3	59.9	542.0	606.0	243.3	67.9	1.000122
26000.0	368.2	-32.6	59.7	533.0	604.3	243.1	68.5	1.000120
26500.0	360.2	-33.9	59.4	524.2	602.7	242.8	68.7	1.000118
27000.0	352.3	-35.2	59.1	515.6	601.1	242.5	68.9	1.000116
27500.0	344.6	-36.4	58.8	507.1	599.4	242.1	68.6	1.000114
28000.0	337.1	-37.7	58.5	498.8	597.8	241.8	68.4	1.000112
28500.0	329.8	-39.0	58.3	490.7	596.1	241.1	67.9	1.000110
29000.0	322.6	-40.3	58.0	482.6	594.5	240.3	67.4	1.000108
29500.0	315.6	-41.6	57.7	474.8	592.8	239.4	65.9	1.000106
30000.0	308.7	-42.9	57.4	467.0	591.1	238.3	64.0	1.000105
30500.0	301.9	-44.2	57.1	459.4	589.5	237.5	62.7	1.000103
31000.0	295.1	-45.5	51.9**	451.6	587.8	236.9	61.7	1.000101
31500.0	288.4	-46.8	44.6**	443.8	586.1	236.8	63.1	1.000099
32000.0	281.7	-48.1	37.4**	436.1	584.4	237.1	66.1	1.000097
32500.0	275.3	-49.4	30.1**	428.6	582.7	237.8	69.9	1.000096
33000.0	269.0	-50.7	22.9**	421.2	581.0	238.7	74.2	1.000094
33500.0	262.8	-52.0	15.6**	414.0	579.3	239.8	77.3	1.000092
34000.0	256.8	-53.3	8.4**	406.9	577.6	241.1	78.9	1.000091
34500.0	250.9	-54.6	1.1**	399.9	575.9	242.3	80.0	1.000089
35000.0	245.0	-55.6		392.2	574.7	243.5	80.2	1.000087
35500.0	239.1	-56.4		384.4	573.5	244.6	80.4	1.000086
36000.0	233.5	-57.3		376.8	572.3	245.2	80.0	1.000084
36500.0	227.9	-58.2		369.4	571.2	245.9	79.4	1.000082
37000.0	222.5	-59.1		362.1	570.0	246.4	77.6	1.000081
37500.0	217.2	-60.0		355.0	568.8	246.9	75.9	1.000079
38000.0	212.1	-58.0		343.4	571.4	248.4	74.4	1.000076
38500.0	207.0	-56.0		332.1	574.1	249.9	73.0	1.000074
39000.0	202.2	-54.7		322.4	575.8	251.7	71.8	1.000072
39500.0	197.4	-53.6		313.3	577.2	253.3	70.8	1.000070
40000.0	192.8	-53.5		305.9	577.3	252.4	72.1	1.000068
40500.0	188.3	-53.9		299.1	576.9	251.0	74.7	1.000067
41000.0	183.9	-54.2		292.6	576.5	249.6	80.4	1.000065
41500.0	179.6	-54.5		286.1	576.1	247.0	83.3	1.000064
42000.0	175.4	-54.8		279.8	575.7	246.1	83.0	1.000062
42500.0	171.3	-55.1		273.7	575.2	245.5	80.4	1.000061
43000.0	167.3	-55.6		267.9	574.6	245.3	74.0	1.000060

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

STATION ALTITUDE 3989.00 FEET MSL
 10 JAN. 80 1200 HRS MST
 ASCENSION NO. 26

UPPER AIR DATA
 0180020026
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 7 (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	
43500.0	163.3	-56.4		262.4	573.6	245.1	67.7	1.000058
44000.0	159.4	-57.1		257.1	572.6	245.2	63.0	1.000057
44500.0	155.7	-57.9		251.9	571.6	245.3	58.2	1.000056
45000.0	152.0	-58.6		246.7	570.6	245.6	55.5	1.000055
45500.0	148.4	-59.2		241.5	569.8	245.9	53.3	1.000054
46000.0	144.8	-59.6		236.2	569.3	246.3	53.0	1.000053
46500.0	141.3	-60.1		231.0	568.7	246.7	53.6	1.000051
47000.0	137.9	-60.5		225.9	568.1	247.2	55.5	1.000050
47500.0	134.6	-60.4		220.4	568.2	247.6	58.3	1.000049
48000.0	131.4	-60.1		214.9	568.6	248.0	60.8	1.000048
48500.0	128.2	-60.2		209.8	568.5	248.4	61.5	1.000047
49000.0	125.1	-60.8		205.2	567.7	248.9	62.3	1.000046
49500.0	122.1	-61.3		200.8	567.0	249.1	61.4	1.000045
50000.0	119.1	-61.9		196.5	566.3	249.1	59.3	1.000044
50500.0	116.3	-62.4		192.2	565.5	248.9	57.3	1.000043
51000.0	113.5	-63.0		188.0	564.8	248.1	55.8	1.000042
51500.0	110.7	-63.1		183.6	564.7	247.2	54.2	1.000041
52000.0	108.0	-62.8		179.9	565.0	246.4	54.8	1.000040
52500.0	105.4	-62.5		174.3	565.4	245.7	55.4	1.000039
53000.0	102.8	-62.3		169.9	565.7	245.1	56.1	1.000038
53500.0	100.3	-62.0		165.6	566.0	244.6	56.9	1.000037
54000.0	97.9	-62.1		161.6	565.9	244.7	57.3	1.000036
54500.0	95.5	-62.3		157.8	565.7	245.4	57.4	1.000035
55000.0	93.2	-62.4		154.1	565.5	246.3	57.7	1.000034
55500.0	91.0	-62.6		150.5	565.3	247.9	58.7	1.000034
56000.0	88.8	-62.7		146.9	565.1	249.4	59.7	1.000033
56500.0	86.6	-62.3		143.1	565.6	249.3	58.5	1.000032
57000.0	84.5	-61.3		139.0	567.0	249.0	57.1	1.000031
57500.0	82.5	-60.3		135.1	568.3	248.8	51.2	1.000030
58000.0	80.5	-59.4		131.2	569.6	248.5	39.7	1.000029
58500.0	78.6	-58.4		127.5	571.0	247.9	28.2	1.000028
59000.0	76.7	-58.6		124.5	570.7	248.3	19.0	1.000028
59500.0	74.9	-59.5		122.1	569.5	249.6	10.0	1.000027
60000.0	73.1	-60.4		119.6	568.2	249.6	6.1	1.000027
60500.0	71.5	-61.3		117.3	567.0	246.3	9.5	1.000026
61000.0	69.8	-62.2		114.9	565.9	244.6	12.9	1.000026
61500.0	67.9	-62.9		112.5	564.9	243.9	16.0	1.000025
62000.0	66.2	-63.6		110.1	563.9	243.6	18.5	1.000025
62500.0	64.6	-64.3		107.8	563.0	243.3	21.1	1.000024
63000.0	63.1	-65.0		105.5	562.0	244.5	21.4	1.000023

STATION ALTITUDE 3989.00 FEET MSL
 10 JAN. 80 1200 HRS MST
 ASCENSION NO. 26

UPPER AIR DATA
 0180020026
 WHITE SANDS
 TABLE 7 (CONT)

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		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
6350.0	61.0	-65.8		103.3	561.0	247.9	19.0	1.000023
6400.0	60.0	-65.2		100.5	561.8	252.2	16.6	1.000022
6450.0	58.6	-64.0		97.5	563.5	260.2	14.1	1.000022
6500.0	57.1	-62.7		94.6	565.1	272.0	11.9	1.000021
6550.0	55.7	-61.5		91.8	566.8	287.6	10.4	1.000020
6600.0	54.4	-60.3		89.0	568.4	296.9	8.4	1.000020
6650.0	53.1	-60.3		86.9	568.4	311.4	6.8	1.000019
6700.0	51.8	-60.8		85.0	567.8	317.8	5.3	1.000019
6750.0	50.6	-61.3		83.1	567.1	317.7	3.8	1.000019
6800.0	49.4	-61.2		81.1	567.2	310.5	2.4	1.000018
6850.0	48.2	-60.6		78.9	568.0	257.2	2.9	1.000018
6900.0	47.0	-60.0		76.8	568.8	233.4	4.7	1.000017
6950.0	45.9	-59.4		74.8	569.6	225.0	6.8	1.000017
7000.0	44.8	-58.8		72.8	570.4	222.0	9.0	1.000016
7050.0	43.7	-58.2		70.9	571.2	220.2	11.1	1.000016
7100.0	42.7	-57.9		69.1	571.6	223.5	12.4	1.000015
7150.0	41.7	-58.1		67.5	571.4	226.7	13.4	1.000015
7200.0	40.7	-58.3		65.9	571.1	233.2	14.5	1.000015
7250.0	39.7	-58.5		64.4	570.8	238.8	14.4	1.000014
7300.0	38.8	-58.7		63.0	570.6	44.8	14.2	1.000014
7350.0	37.8	-58.9		61.5	570.3	251.0	14.0	1.000014
7400.0	36.9	-58.9		60.1	570.2	260.5	11.3	1.000013
7450.0	36.1	-58.7		58.6	570.5	275.0	9.2	1.000013
7500.0	35.2	-58.5		57.1	570.8	295.2	7.7	1.000013
7550.0	34.4	-58.2		55.7	571.1	320.9	7.0	1.000012
7600.0	33.6	-58.0		54.4	571.4	345.9	7.9	1.000012
7650.0	32.8	-57.8		53.0	571.7	357.7	7.9	1.000012
7700.0	32.0	-57.5		51.7	572.1	7.9	7.9	1.000012
7750.0	31.2	-57.3		50.4	572.4	17.2	7.9	1.000011
7800.0	30.5	-57.1		49.2	572.7	24.9	7.3	1.000011
7850.0	29.8	-56.9		48.0	572.9	34.0	6.7	1.000011
7900.0	29.1	-56.8		46.8	573.0	38.0	5.6	1.000010
7950.0	28.4	-56.8		45.7	573.0	37.6	4.0	1.000010
8000.0	27.7	-56.7		44.6	573.1	36.8	2.4	1.000010
8050.0	27.1	-56.7		43.6	573.2			1.000010
8100.0	26.4	-56.6		42.5	573.2			1.000009

STATION ALTITUDE 5989.00 FEET MSL
 18 JAN. 80
 ASCENSION NO. 26

MANDATORY LEVELS
 0180020026
 WHITE SANDS
 TABLE 8

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4843.	13.9	-6.3	24.	219.5	14.4
800.0	6503.	8.8	-6.8	32.	222.1	13.1
750.0	8242.	4.7	-7.2	42.	243.3	17.4
700.0	10075.	1.4	-5.7	59.	235.1	27.3
650.0	12019.	-3.0	-6.9	74.	237.1	36.0
600.0	14084.	-7.7	-10.4	81.	240.0	43.1
550.0	16286.	-12.4	-17.4	60.	233.8	47.6
500.0	18656.	-17.3	-17.8	96.	232.1	49.8
450.0	21223.	-22.2	-24.7	80.	245.8	50.6
400.0	24033.	-27.9	-34.9	51.	243.3	65.0
350.0	27133.	-35.5	-40.6	59.	242.4	68.8
300.0	30586.	-44.6	-49.6	57.	237.4	62.5
250.0	34501.	-54.8			242.4	80.0
200.0	39133.	-54.4			252.5	71.3
175.0	41945.	-54.8			246.0	63.0
150.0	45152.	-59.0			245.8	54.4
125.0	48885.	-60.8			248.9	62.3
100.0	53406.	-62.0			244.5	56.9
80.0	57938.	-59.1			248.4	37.4
70.0	60677.	-62.0			245.0	11.9
60.0	63773.	-65.2			251.9	16.8
50.0	67477.	-61.5			317.6	3.2
40.0	72066.	-58.4			236.6	14.5
30.0	78010.	-56.9			30.3	6.9

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