

MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963 A

METEOROLOGICAL DATA REPORT
17901A Honest John
Missile Number 1824, 1831, 1857, 1858
Round Number NJ 678-ASL thru HJ 681-ASL
7 August 1984

by

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ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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UNITED STATES ARMY ELECTRONICS COMMAND

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 17901A Honest John, Missile Number 1824, 1831, 1857, 1858, Round Number HJ 678-ASL thru HJ 681-ASL, are presented in tabular form.			

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INTRODUCTION

17901A Honest John, Missile Numbers 1824, 1831, 1857, and 1858, Round Number HJ 678-ASL Thru HJ 681-ASL, were launched from LC-33, White Sands Missile Range (WSMR). New Mexico, at 1235:28, 1300:57, 1531:17, and 1557:32 MDT, 7 Aug 84. The scheduled launch times were 1130, 1150, 1530 and 1550 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-33 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 Pilot-balloon observations at:

SITE AND ALTITUDE

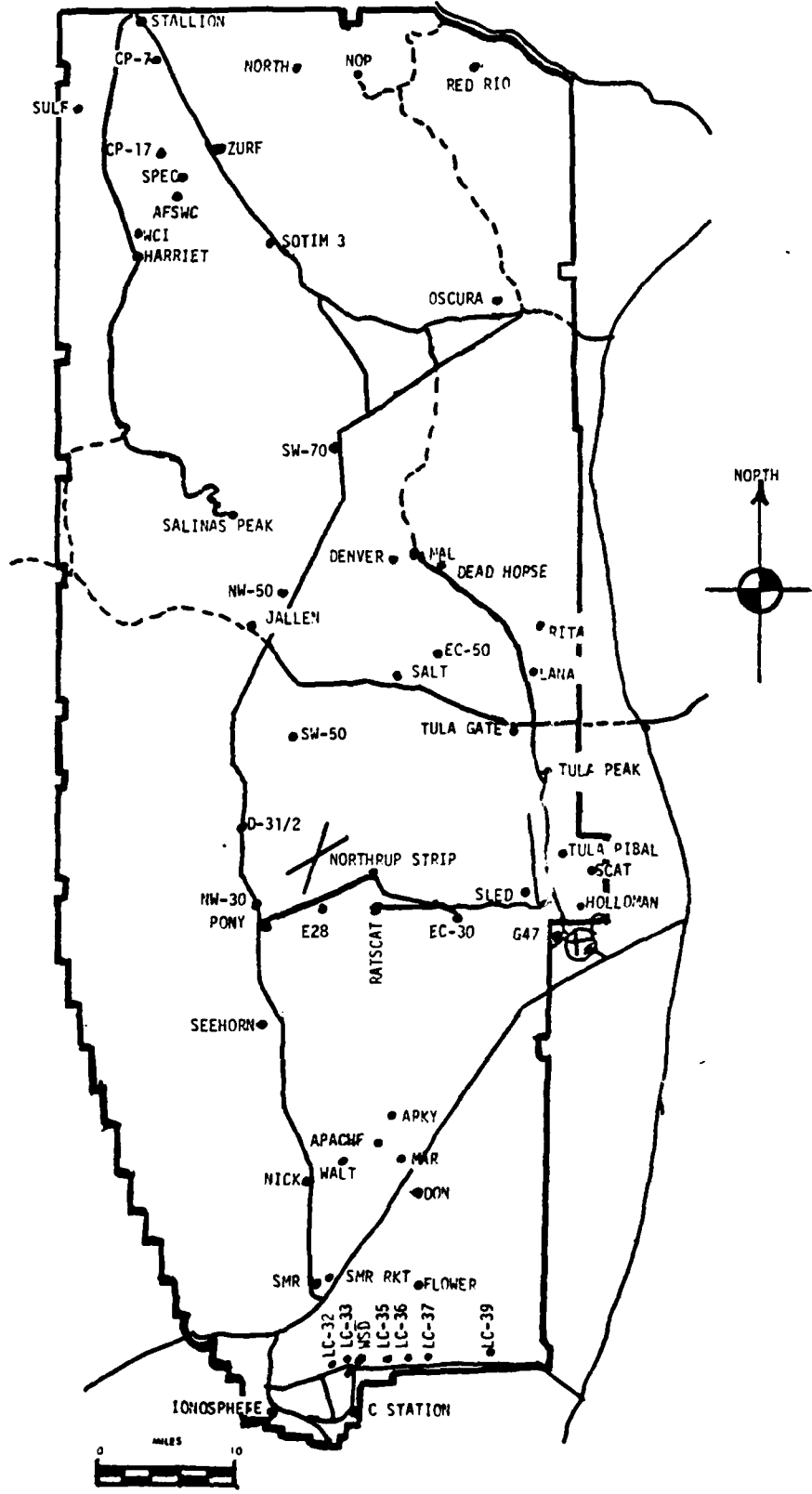
LC-33 8000 ft

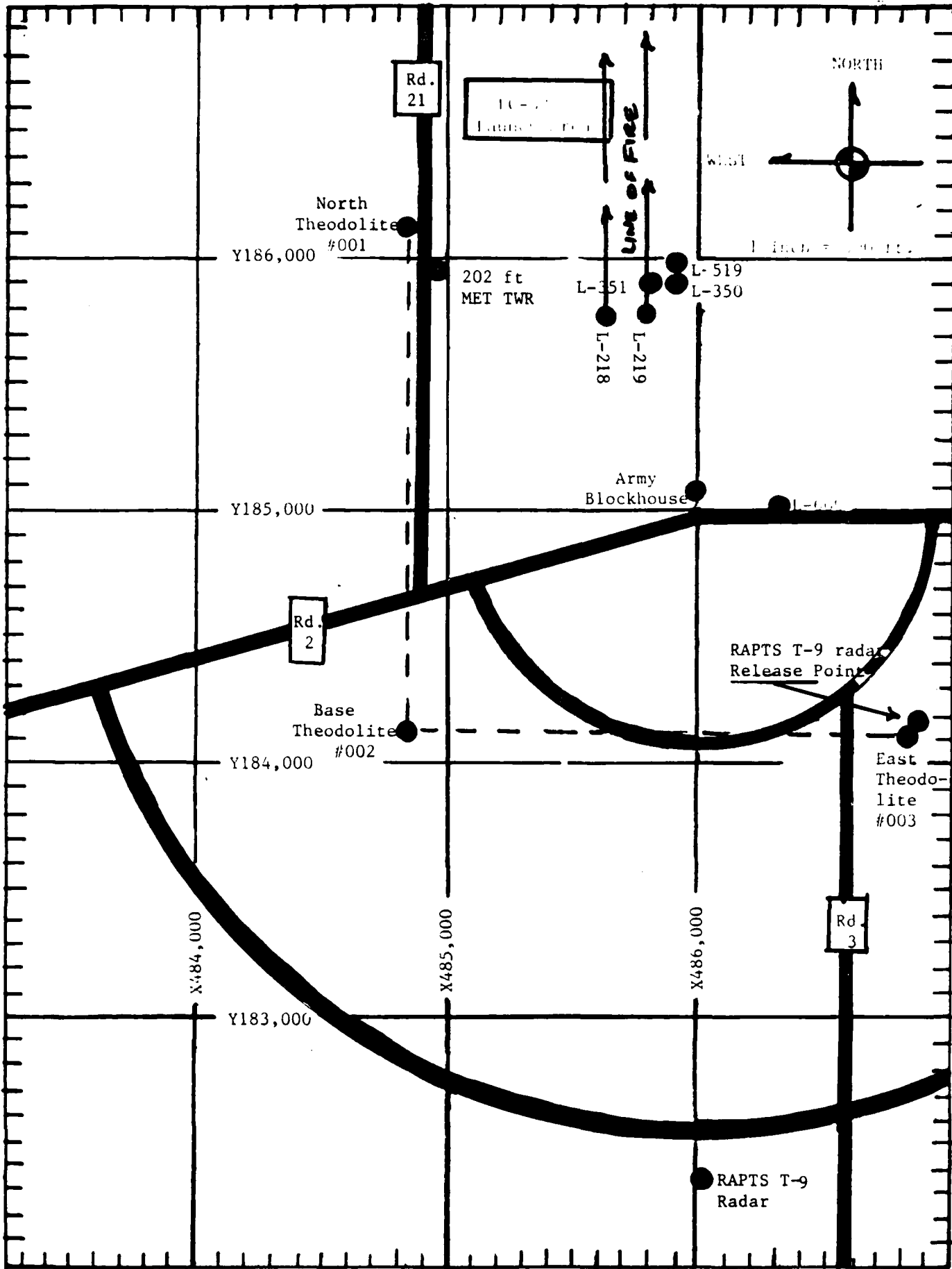
(2) Air structure data (rawinsonde) were collected at the following Met Sites.

SITE AND TIME

WSD 0915, 1235 and 1531 MDT

WSMR METEOROLOGICAL SITES





PROJECT SURFACE OBSERVATION

TABLE 1 STATION LC-33

DATE 07 DAY 1984 YEAR Aug MONTH 1984 YEAR X= 484,982.64 Y= 185,057.73 H=3995.00

TIME M D I	PRESSURE mbs	TEMPERATURE OF °C	DEW POINT OF °C	RELATIVE HUMIDITY %	DENSITY gm/m ³	WIND			VISIBIL- ITY
						DIRECTION degs	Tn	SPEED kts	
1235	880.3	27.7		57	1010.3	200		04	40
1301	879.9	28.8		54	1007.6	165		03	40

OBSTRUCTIONS TO VISIBILITY	CLOUDS						REMARKS
	1st LAYER		2nd LAYER		3rd LAYER		
	AMT	HGT	AMT	HGT	AMT	HGT	
	2	CU 5000	1	AC 12000	0	CI	TCU NW-E CB NE-E
	2	CU 5000	1	AC 1200	0	CI	TCU NW-E CB NE-E

PSYCHROMETRIC COMPUTATION

TIME: MDT	1235	1301
DRY BULB TEMP.	27.7	28.8
WET BULB TEMP.	21.9	22.1
WET BULB DEPR.	5.8	6.7
DEW POINT	19.8	18.5
RELATIVE HUMID.	57	54.0

PROJECT SURFACE OBSERVATION

TABLE 2		STATION LC-33									
DATE 07 08 84		MONTH		YEAR		X= 484,982.64		Y= 185,057.73		H= 3995.00	
TIME M D I	PRESSURE mbs	TEMPERATURE OF	TEMPERATURE OF	DEW POINT OF	RELATIVE HUMIDITY %	DENSITY gm/m ³	DIRECTION degs	WIND SPEED kts	WIND CHAPACTER kts	VISIBILITY	
1531	881.7	29.0			51	1001.3	310	05		40	
1557	881.2	28.8			51	1007.8	315	05		40	

OBSTRUCTIONS TO VISIBILITY	CLOUDS						REMARKS
	1st LAYER		2nd LAYER		3rd LAYER		
	AMT	HGT	AMT	HGT	AMT	HGT	
	3	CU 6000	1	AC 12000	0	CI 25000	RWU W, TCU ALL QUADS
	3	CU 6000	1	AC 12000	0	CI 25000	TCU ALL QUADS

PSYCHROMETRIC COMPUTATION

TIME: MDT	1530	1557
DRY BULB TEMP.	29.0	28.8
WET BULB TEMP.	21.1	20.8
WET BULB DEPR.	7.9	8.0
DEW POINT	17.8	17.5
RELATIVE HUMID.	51	51

WINDS ALOFT DATA

TABLE NUMBER 6

RELEASED FROM LC-33 DATE 7 Aug 84 TIME 1557 MST X MDT X

WSTM COORDINATES: X= 486,037.24 Y= 182,350.16 H= 3977.30

METHOD OF DATA COLLECTION: S/T D/T T-9 X RAOB RAWIN

HEIGHTS: METERS AGL FEET AGL X METERS MSL FEET MSL

HEIGHT	DIRECTION DEGREES	SPEED KTS
SFC	315	05
200	058	02
400	022	07
600	011	03
800	323	03
1000	294	07
1200	305	01
1400	046	02
1600	248	01
1800	235	01
2000	206	02
2200	184	04
2400	187	05
2600	193	06
2800	194	06
3000	186	05
3200	174	05
3400	185	07
3600	192	07
3800	176	06
4000	184	05
4200	177	04
4400	187	01
4600	066	01
4800	034	03
5000	044	05
5200	045	05
5400	051	04

HEIGHT	DIRECTION DEGREES	SPEED KTS
5600	055	04
5800	044	04
6000	017	04
6200	014	05
6400	064	06
6600	073	05
6800	073	05
7000	064	06
7200	055	06
7400	061	07
7600	019	06
7800	018	08
8000	034	09

HEIGHT	DIRECTION DEGREES	SPEED KTS

TABLE 7

AIMING AND T-TIME BALLISTIC MET MESSAGE DATA

7 August 1984

WSD 0915 MDT
METB31324064
071500122869
000000035839
012402030844
020403033842
030000034842
045703035842
056006036843
066005036844

WSD 1235 MDT
METB31324074
071850122868
003006050827
012906048829
023007045831
033006041835
042402040837
050704039838
060706038841

WSD 1531 MDT
METB31324064
072150122866
006205059818
016408054822
026302053824
034301051826
043004049829
051301046831
060204043835

STATION ALTITUDE 2000 FEET
 7 AUG. 64 0915 PDT
 ASCENSION NO. 543

SIGNIFICANT LEVEL DATA
 2000 FT
 WHITE SANDS

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 3

PRESSURE MILLIBARS	ALTIMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL-HUM. PERCENT
950.3	7399.0	26.7	17.4
876.1	4191.1	20.8	15.0
367.9	4525.1	19.9	14.9
350.0	4956.3	20.7	14.6
700.0	10620.9	11.4	3.7
590.1	15035.4	1.5	-4
			72.0
			76.0
			73.0
			68.0
			59.0
			87.0

STATION ALTITUDE 3989.00 FEET MSL
 7 AUG. 94 0915 MDT
 ASCENSION NO. 408

UPPER AIR DATA
 2200020408
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.77033 LONG DEG

TABLE 9

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(TW)	SPEED KNOTS	
3989.0	890.3	22.7	17.4	72.0	1027.7	673.0	.	.0	1.000115
4000.0	890.0	22.6	17.3	72.1	1027.7	672.9	14.1	.0	1.000115
4500.0	854.7	20.0	15.0	73.1	1020.0	669.5	14.1	.5	1.000203
5000.0	819.6	20.7	14.6	68.0	999.8	670.3	14.1	.9	1.000296
5500.0	834.5	19.8	13.6	67.1	985.3	669.2	14.1	1.4	1.000388
6000.0	819.8	19.0	12.5	66.3	971.1	668.1	14.1	.8	1.000481
6500.0	805.3	18.1	11.5	65.5	957.0	667.0	154.5	.4	1.000574
7000.0	791.0	17.3	10.5	64.7	943.1	665.9	329.4	1.3	1.000667
7500.0	777.0	16.4	9.5	63.8	929.4	664.8	321.4	1.1	1.000761
8000.0	763.2	15.5	8.5	63.0	915.9	663.8	321.7	5.2	1.000855
8500.0	749.7	14.7	7.5	62.2	902.5	662.7	323.5	6.8	1.000949
9000.0	736.5	13.8	6.5	61.4	889.5	661.5	331.9	7.9	1.001043
9500.0	723.4	13.0	5.5	60.5	876.5	660.5	336.3	8.3	1.001137
10000.0	710.6	12.1	4.5	59.7	863.9	659.5	339.7	9.3	1.001232
10500.0	698.0	11.2	3.6	59.5	851.3	658.4	341.4	7.6	1.001327
11000.0	685.2	10.2	3.3	62.5	838.9	657.1	347.2	7.2	1.001424
11500.0	672.6	9.1	3.0	65.5	826.7	655.9	347.0	7.9	1.001520
12000.0	660.3	8.0	2.6	68.6	814.6	654.5	347.0	7.8	1.001617
12500.0	648.2	6.9	2.2	71.6	802.8	653.4	347.3	7.0	1.001713
13000.0	636.3	5.9	1.7	74.6	791.2	652.1	329.6	4.6	1.001810
13500.0	624.6	4.8	1.2	77.7	779.7	650.9	269.5	2.2	1.001907
14000.0	613.2	3.7	.7	80.7	768.4	649.5			1.002003
14500.0	601.9	2.7	.2	83.7	757.3	648.2			1.002100
15000.0	590.9	1.6	-.4	86.8	746.4	647.0			1.002196

STATION ALTITUDE 79,100 FEET U.S.
 / 2400.0 M
0915 MDT
 ASCENSION NO. 102

MANDATORY LEVELS
 020000Z
 WHITE SANDS

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 10

MILLIBARS	PRESSURE GEOPOTENTIAL FEET	TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
		AIR DEGREES CENTIGRADE	DEWPOINT		DIRECTION DEGREES(TN)	SPEED KNOTS
150.0	4923.	20.7	14.6	58.	14.1	.9
500.0	5698.	17.8	11.2	55.	279.9	.3
750.0	5831.	14.7	7.6	52.	323.6	6.8
700.0	10411.	11.4	3.7	59.	339.7	7.7
650.0	12430.	7.1	2.2	71.	341.2	7.1
500.0	14577.	2.5	.1	84.		

STATION ALTITUDE 3989.00 FEET MSL
 7 AUG. 94
 ASCENSION NO. 439

2200020409
 WHITE SANDS

32.40043 LAT DEG
 106.17033 LON DEG

TABLE 11

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	
879.4	3989.0	26.9	17.1	55.0
866.5	4417.9	25.4	15.0	56.0
850.0	4972.7	23.6	15.1	59.0
821.5	5947.1	19.8	12.9	64.0
796.1	6837.0	19.2	10.2	56.0
770.3	7764.1	16.2	9.2	59.0
742.1	8805.7	15.0	5.6	57.0
723.6	9506.3	12.7	4.9	59.0
700.0	10421.6	12.1	4.1	58.0
660.3	12019.1	7.7	2.2	68.0
617.1	13865.5	4.6	.2	73.0
596.4	14757.2	2.1	-1.0	80.0

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

UPPER AIR DATA
 200070409
 WHITE SANDS

TABLE 12

STATION ALTITUDE 7400 FEET MSL
 1235 MDT

GEOMETRIC ALTITUDE FAL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	TEMPERATURE DEW POINT DEGREES CELSIUS	REL. HUM. PERCENT	WIND DIR. DEGREES	WIND SPEED KNOTS	WIND SPEED METER	WIND DIR. DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
19000.0	879.6	25.9	17.1	55.0	1012.4	677.7	170.0	170.0	6.0	1.000306
4000.0	879.1	25.5	17.1	55.0	1012.2	577.5	170.0	170.0	6.0	1.000308
4500.0	894.0	25.1	15.9	56.4	1001.1	575.5	169.9	169.9	6.1	1.000300
5000.0	897.1	23.5	15.1	59.1	989.6	673.5	169.8	169.8	6.2	1.000294
5500.0	834.5	21.5	13.9	61.7	979.3	671.2	169.7	169.7	6.4	1.000288
6000.0	835.2	19.5	11.7	63.5	958.5	669.0	170.2	170.2	6.1	1.000281
6500.0	835.3	19.4	11.2	59.0	957.2	668.5	173.3	173.3	5.0	1.000271
7000.0	771.5	16.7	9.8	56.5	939.4	667.5	172.2	172.2	3.0	1.000264
7500.0	771.6	17.1	8.8	59.1	928.3	665.5	146.8	146.8	.7	1.000258
8000.0	753.3	15.9	7.8	58.5	915.6	664.1	24.0	24.0	2.5	1.000252
8500.0	750.1	15.4	7.0	57.5	901.4	663.4	19.1	19.1	5.4	1.000247
9000.0	738.9	14.4	6.1	57.5	888.5	662.2	24.3	24.3	7.0	1.000241
9500.0	723.8	12.7	4.9	59.0	878.0	660.2	27.4	27.4	8.2	1.000236
10000.0	713.5	12.4	4.5	58.5	863.3	659.8	29.7	29.7	9.1	1.000231
10500.0	698.0	11.9	4.0	58.5	849.3	659.2	33.3	33.3	9.8	1.000227
11000.0	685.4	10.5	3.5	61.5	838.1	657.6	37.1	37.1	10.5	1.000224
11500.0	672.7	9.1	2.9	64.5	827.0	655.9	41.9	41.9	10.1	1.000220
12000.0	659.8	7.5	2.2	67.9	816.1	654.3	43.9	43.9	9.1	1.000216
12500.0	645.6	5.9	1.7	69.5	803.7	653.2	36.4	36.4	7.0	1.000212
13000.0	635.7	5.0	1.1	73.7	791.4	652.2	17.1	17.1	5.2	1.000209
13500.0	625.1	5.2	.6	72.1	779.3	651.2	343.5	343.5	4.7	1.000205
14000.0	613.5	4.2	.0	74.2	767.8	650.0				1.000201
14500.0	602.2	2.8	-1.6	76.0	757.4	648.4				1.000198

STATION ALTITUDE 3989.00 FEET MSL
 7 AUG. 54
 ASCENSION NO. 409

MANDATORY LEVELS
 2250020409
 WHITE SANDS

GEODETTIC COORDINATES
 32.4043 LAT DLG
 106.17933 LONG DEG

TABLE 13

PRESSURE GEOPOTENTIAL MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DATA	
			DIRECTION D. DEGREES (TN)	SPEED KNOTS
850.0	23.6	59.	157.8	6.2
800.0	19.3	57.	174.6	4.5
750.0	15.3	58.	17.2	5.4
700.0	12.1	58.	32.6	9.6
650.0	7.0	59.	37.5	7.3
600.0	2.5	79.		

STATION ALTITUDE 12 2.00 FEET MSL
7 1531 MDT

ASCENSION No. 110

SIGNIFICANT LEVEL DATA

200002410

WELL SANDS

TABLE 14

GEODETTIC COORDINATES
32.50043 LAT DEG
106.37033 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES CENTIGRADE	DEWPOINT	
577.6	3957.0	29.7	15.5	45.0
659.7	4265.8	26.9	15.5	53.0
850.0	4917.0	25.9	15.2	55.0
700.0	17412.3	12.0	5.9	60.0
549.7	12452.1	7.4	3.3	75.0
577.7	15007.7	2.3	-3.6	65.0

STATION ALTITUDE 3989.00 FEET MSL
 7 AUG. 54
 ASCENSION NO. 410

UPPER AIR DATA
 220023410
 WHITE SANDS

GEODETIC COORDINATES
 32.4074° LAT DEG
 106.7703° LONG DEG

TABLE 15

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY G/CM ³	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT DEGREES				DIRECTION DEGREES (TN)	SPEED KNOTS	
3989.0	877.5	29.7	16.5	45.2	1001.3	690.7	350.0	5.1	1.000301
4000.0	877.3	29.6	16.5	45.3	1001.3	690.5	350.0	5.0	1.000301
4500.0	852.3	26.5	16.4	53.7	994.2	677.2	347.7	3.1	1.000390
5000.0	847.5	25.7	16.0	55.4	980.0	676.2	339.5	1.2	1.000296
5500.0	832.7	24.4	15.1	56.2	957.2	674.7	197.1	.8	1.000285
6000.0	819.1	23.2	14.2	57.2	954.5	673.1	142.4	1.9	1.000233
6500.0	803.8	21.9	13.3	58.2	942.2	671.5	205.7	2.3	1.000277
7000.0	789.7	20.6	12.4	59.2	930.0	670.1	230.0	3.3	1.000271
7500.0	775.9	19.4	11.5	60.2	917.9	668.5	210.4	4.0	1.000265
8000.0	762.3	18.1	10.5	61.2	906.0	667.0	168.7	6.5	1.000259
8500.0	748.9	16.8	9.6	62.2	894.3	665.4	148.5	6.5	1.000253
9000.0	735.5	15.6	8.6	63.2	882.7	663.9	128.5	4.8	1.000248
9500.0	722.9	14.3	7.6	64.2	871.3	662.3	39.4	2.3	1.000242
10000.0	710.3	13.0	6.7	65.2	860.1	660.8	27.9	3.6	1.000237
10500.0	697.8	11.8	5.7	66.4	849.8	659.3	51.7	4.4	1.000232
11000.0	695.1	10.7	5.1	68.6	836.8	657.9	38.1	4.7	1.000228
11500.0	672.7	9.5	4.5	70.8	825.0	656.5	27.9	5.6	1.000224
12000.0	650.5	8.4	3.9	73.0	813.4	655.2	14.7	7.1	1.000220
12500.0	649.5	7.3	3.2	74.8	801.9	653.9	1.6	9.9	1.000216
13000.0	636.6	6.5	2.1	73.3	789.6	652.9	354.1	10.5	1.000210
13500.0	624.8	5.7	1.0	-	777.5	651.9	351.2	10.7	1.000205
14000.0	613.3	4.9	-1.1	70.1	765.6	650.8	349.1	10.6	1.000200
14500.0	602.0	4.1	-1.2	68.5	753.9	649.9	-	-	1.000196
15000.0	590.9	3.3	-2.3	66.9	742.2	648.8	-	-	1.000191
15500.0	580.0	2.5	-3.4	65.3	730.5	647.8	-	-	1.000187

STATION ALTITUDE 1531 FEET
 7 AUG 57
 OBSERVATION NO. 1531 (MU)

MANDATORY LEVELS
 000020610
 WHITE SANDS

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 16

PRESSURE MILLIBARS	DEPTH FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT PERCENT	REL. HUM. PERCENT	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5715.	25.9	16.2	55.	341.6	1.5
800.0	5658.	21.6	13.1	58.	215.0	2.6
750.0	5604.	16.9	9.6	62.	149.0	6.5
700.0	5552.	12.0	5.9	66.	37.5	4.3
650.0	5506.	7.4	3.3	75.	3.1	8.7
600.0	5479.	3.9	-1.4	68.		

END

FILMED

2-85

DTIC