

17901A HONEST JOHN MISSILE NUMBER 1824 1831 1857 1858
ROUND NUMBER NJ 678. (U) ARMY ELECTRONICS RESEARCH AND
DEVELOPMENT COMMAND WSMR NM ATM. D C KELLER 87 AUG 84
ERADCOM/ASL/DR-1355 F/G 4/2

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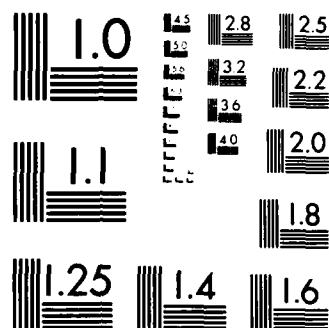
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METEOROLOGICAL DATA REPORT
17901A Honest John
Missile Number 1824, 1831, 1857, 1858
Round Number NJ 678-ASL thru HJ 681-ASL
7 August 1984

by

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ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

ECONOM

UNITED STATES ARMY ELECTRONICS COMMAND

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM	
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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 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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Accession For
MILITARY CASES ☒
POLITICAL CASES ☐
ECONOMIC CASES ☐
CIVILIAN CASES ☐
OTHER CASES ☐
REMARKS

A-1

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

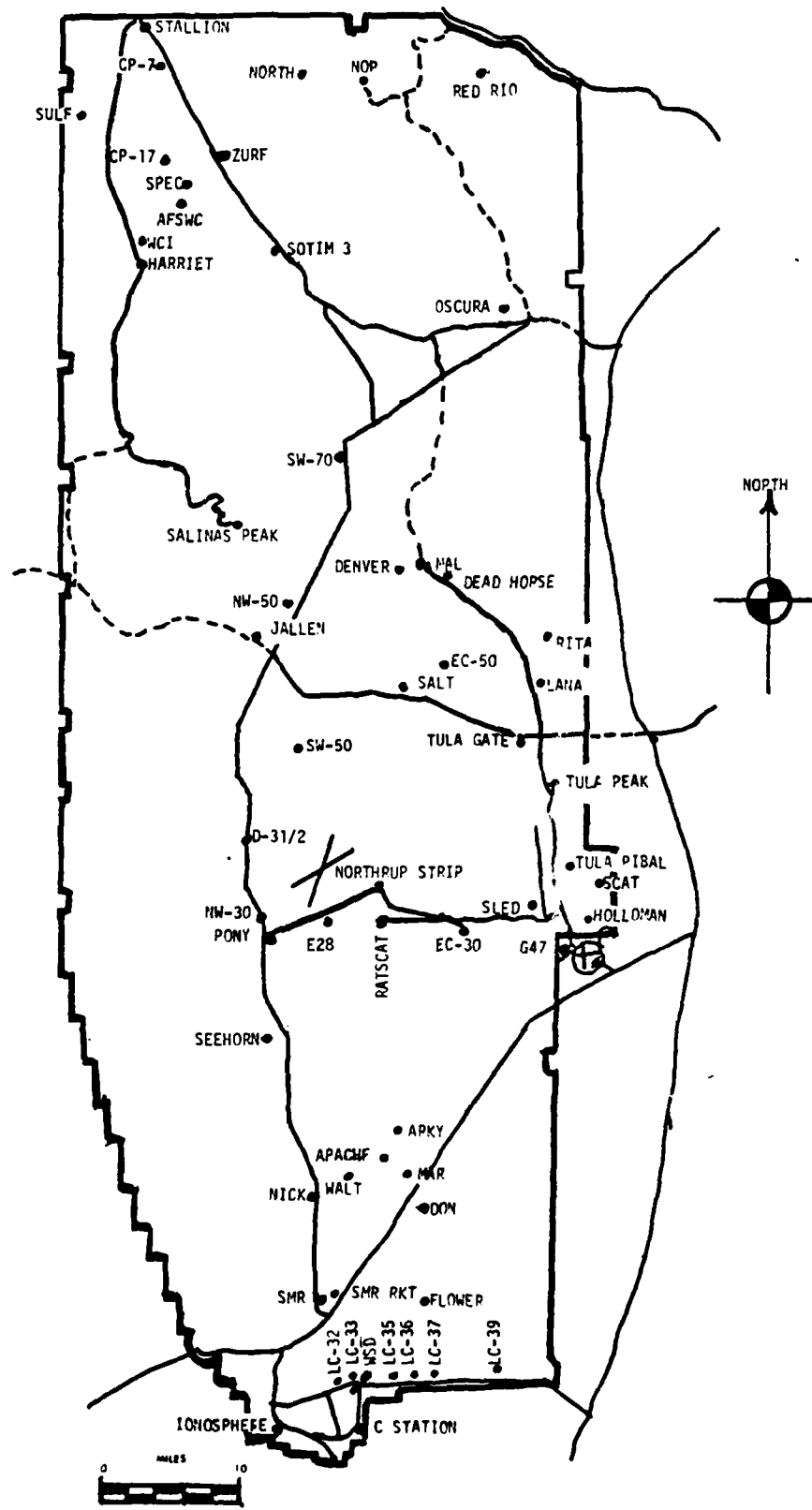
LC-33 8000 ft

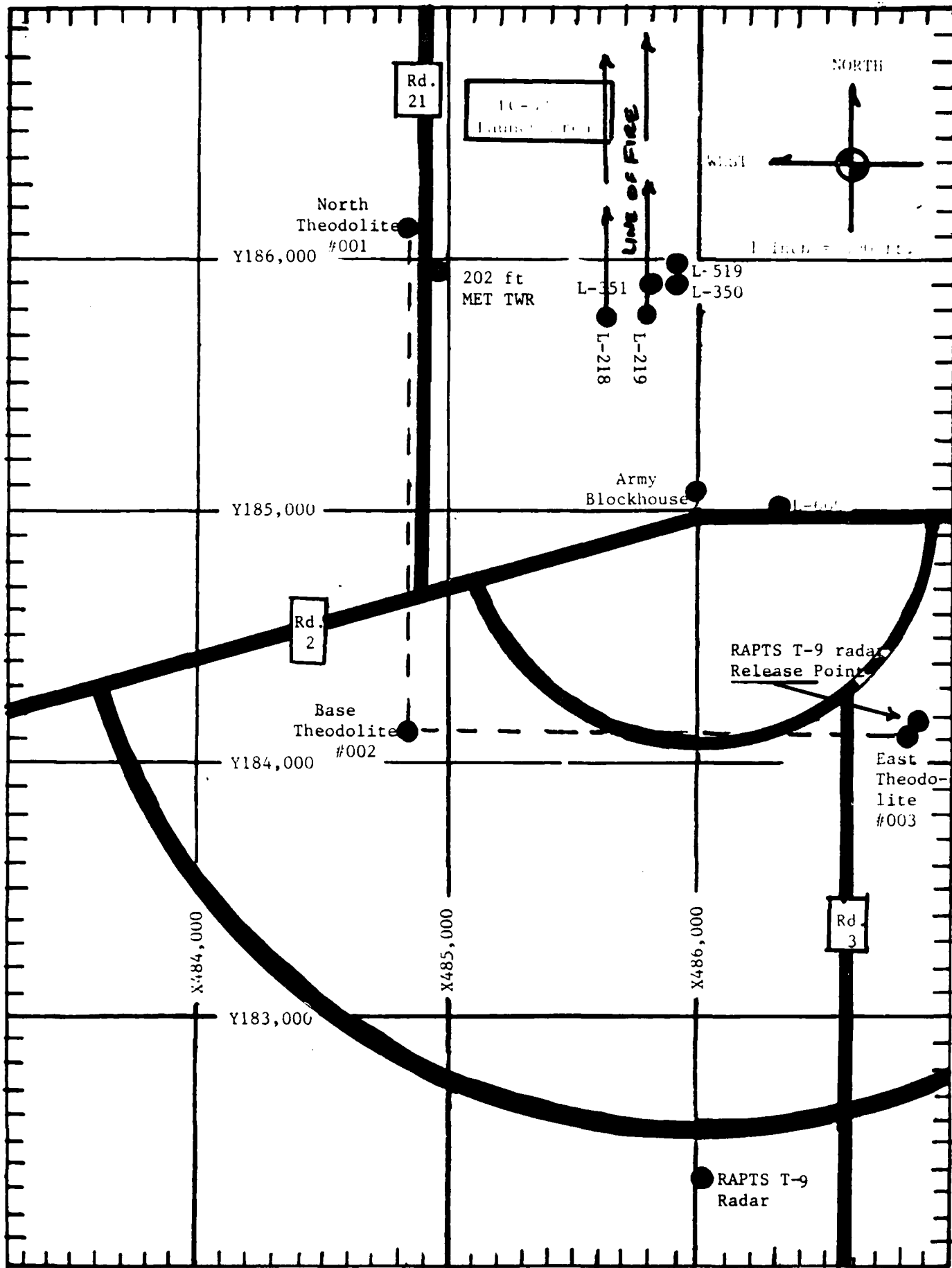
(2) Air structure data (rawinsonde) were collected at the following Met Sites.

SITE AND TIME

WSD 0915, 1235 and 1531 MDT

WSMR METEOROLOGICAL SITES





PROJECT SURFACE OBSERVATION

TABLE 1									
STATION LC-33									
DATE 07		Aug		1984		X= 484,982.64		Y= 185,057.73 H=3995.00	
TIME		PRESSURE		TEMPERATURE		DEW POINT		RELATIVE HUMIDITY	
M D I		mbs		°C		°C		%	
1235		880.3		27.7			57	1010.3	200
1301		879.9		28.8			54	1007.6	165

OBSTRUCTIONS TO VISIBILITY		CLOUDS				REMARKS		
		1st LAYER		2nd LAYER		3rd LAYER		
		AMT	TYPE	HGT	AMT	TYPE	HGT	
		2	CU	5000	1	AC	12000	0
		2	CU	5000	1	AC	1200	0

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 YEAR MONTH DAY X= 484,982.64 Y= 185,057.73 H= 3995.00

TIME M D I	PRESSURE mb	TEMPERATURE °C	DEW POINT °C	RELATIVE HUMIDITY %	DENSITY gm/m ³	DIRECTION degs	WIND SPEED kts	CHAPACTER kts	VISIBIL- ITY
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	TYPE	HGT	AMT	TYPE	HGT	AMT		TYPE	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 3

RELEASED FROM: LC-33 (T9) DATE 07 Aug 1984 TIME 1235 :ST :MDT X

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

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

HEIGHTS: METERS AGL _____ FEET AGL X METERS MSL _____ FEET MSL _____

HEIGHT	DIPECTION DEGREES	SPEED KTS
SFC	200	04
200	MSG	M
400	MSG	M
600	MSG	M
800	MSG	M
1000	MSG	M
1200	MSG	M
1400	MSG	M
1600	MSG	M
1800	MSG	M
2000	135	01
2200	182	05
2400	191	07
2600	195	07
2800	189	08
3000	190	07
3200	176	05
3400	184	04
3600	217	02
3800	197	01
4000	289	01
4200	319	02
4400	020	04
4600	037	06
4800	047	06
5000	036	06
5200	030	07
5400	030	08

[illegible][illegible]

WINDS ALOFT DATA

TABLE NUMBER 4

RELEASED FROM: LC-33 (T9) DATE 07 Aug 1984 TIME 1301 :ST :DT X

U.S.M. COORDINATES: X= 486,037.24 Y= 182,350.16 H= 3977.30

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

HEIGHTS: METERS AGL _____ FEET AGL X METERS MSL _____ FEET MSL _____

HEIGHT	DIRECTION DEGREES	SPEED KTS
SFC	165	03
0200	161	02
0400	157	01
0600	140	04
0800	164	06
1000	170	05
1200	149	03
1400	140	04
1600	150	05
1800	184	05
2000	192	07
2200	183	07
2400	164	06
2600	183	05
2800	212	05
3000	215	02
3200	248	05
3400	234	04
3600	297	02
3800	354	03
4000	019	04
4200	033	06
4400	037	06
4600	004	06
4800	004	06
5000	003	05
5200	011	07
5400	004	07

[illegible][illegible]

WINDS ALOFT DATA

TABLE NUMBER 5

RELEASED FROM LC-33 DATE 07 Aug 84 TIME 1531 'ST 'DT X

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

METHOD OF DATA COLLECTION: S/T _____ D/T _____ T-9 _____ X _____ PAOB _____ DRAWIN _____

HEIGHTS: METERS AGL _____ FEET AGL X METERS MSL _____ FEET MSL _____

HEIGHT	DIRECTION DEGREES	SPEED KTS
SFC	310	05
200	MSG	
400	038	01
600	006	05
800	024	04
1000	064	03
1200	043	03
1400	027	05
1600	055	01
1800	340	01
2000	224	02
2200	110	01
2400	073	03
2600	090	03
2800	103	03
30	±0±	04
3200	132	02
3400	130	02
3600	185	04
3800	185	06
4000	197	04
4200	171	03
4400	185	03
4600	153	02
4800	122	02
5000	161	01
5200	115	02
5400	284	01

[illegible][illegible]

WINDS ALOFT DATA

TABLE NUMBER 6

RELEASED FROM LC-33 DATE 7 Aug 84 TIME 1557 PST '10T X

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

METHOD OF DATA COLLECTION: S/T D/T T-9 X PAGE DRAWING

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

[illegible][illegible]

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 7000 FT MSL
7 AUG. 64 0915 PDT
ASCENSION NO. 523

SIGNIFICANT LEVEL DATA

200000Z
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 3

PRESSURE MILLIBARS	ALTIMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE	
950.3	7299.0	24.7	17.4	72.0
876.1	4191.1	20.8	15.0	74.0
801.9	4525.1	19.9	14.9	73.0
530.0	4954.3	20.7	14.6	68.0
700.0	10420.9	11.4	3.7	59.0
590.1	15035.4	1.5	-4.4	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	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TWD) SPEED (KNOTS)	INDEX OF REFRACTION
3989.0	890.3	22.7	72.0	1027.7	673.0	.0	1.000115
4000.0	890.0	22.6	72.1	1027.7	672.9	.0	1.000115
4500.0	854.7	20.0	73.1	1320.0	659.5	.5	1.000203
5000.0	849.6	20.7	68.0	999.8	670.3	.9	1.000296
5500.0	834.5	19.8	67.1	985.3	669.2	1.4	1.000388
6000.0	819.8	19.0	66.3	971.1	658.1	.8	1.000481
6500.0	805.3	18.1	65.5	957.0	667.0	.4	1.000574
7000.0	791.0	17.3	64.7	943.1	665.2	1.3	1.000667
7500.0	777.0	16.4	63.8	929.4	664.9	1.1	1.000761
8000.0	763.2	15.5	63.0	915.9	663.8	5.2	1.000855
8500.0	749.7	14.7	62.2	902.5	652.7	6.8	1.000949
9000.0	736.5	13.8	61.4	889.5	661.5	7.9	1.001043
9500.0	723.4	13.0	60.5	876.5	660.5	8.3	1.001137
10000.0	710.6	12.1	59.7	863.9	659.5	9.3	1.001232
10500.0	698.0	11.2	59.5	851.3	658.4	7.6	1.001327
11000.0	685.2	10.2	62.5	838.9	657.1	7.2	1.001424
11500.0	672.6	9.1	65.5	826.7	655.2	7.9	1.001520
12000.0	660.3	8.0	68.6	814.6	654.5	7.8	1.001617
12500.0	648.2	6.9	71.6	802.8	653.4	7.0	1.001715
13000.0	636.3	5.9	74.6	791.2	652.1	4.6	1.001810
13500.0	624.6	4.8	77.7	779.7	650.9	2.2	1.001907
14000.0	613.2	3.7	80.7	768.4	649.5		1.002003
14500.0	601.9	2.7	83.7	757.3	648.2		1.002100
15000.0	590.9	1.6	86.8	746.4	647.0		1.002196

MANDALAY LEVELS

32-40043 LAT DEG
106-37033 LON DEG

STATION ALTITUDE 70000 FEET
/ 0915 MDT

ASCENSION NO. 1

TABLE 10

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT	PERCENT		DIRECTION DEGREES(TN)	SPEED KNOTS
450.0	4923.	20.7	14.6	58.		14.1	.9
500.0	5498.	17.8	11.2	55.		279.9	.3
750.0	5531.	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. 409

2200020409
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.17033 LON DEG

TABLE 11

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	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	13845.5	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
2000070409
WHITE SANDS

TABLE 12

STATION ALTITUDE 2700 FEET MSL
1235 MDT

GEOMETRIC ALTITUDE FEET	PRESSURE INCHES	TEMPERATURE AIR DEGREES	TEMPERATURE DEW POINT DEGREES	REL. HUM. PERCENT	DENSITY GRAMS PER CUBIC CENT	SPEED OF SOUND KNOTS	-IND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
19000.0	879.6	25.9	12.1	55.0	1012.4	677.7	170.0	6.0	1.000308
4000.0	879.1	25.5	17.1	55.0	1012.2	677.5	170.0	6.0	1.000308
4500.0	894.0	25.1	15.9	56.4	1001.1	675.5	169.9	6.1	1.000300
5000.0	894.1	23.5	15.1	59.1	989.6	673.5	169.8	6.2	1.000294
5500.0	894.5	21.5	13.9	61.7	979.3	671.2	169.7	6.4	1.000288
6000.0	895.2	19.5	11.7	63.5	968.5	669.0	170.2	6.1	1.000281
6500.0	895.3	19.4	11.2	59.0	957.2	668.5	173.3	5.0	1.000271
7000.0	791.5	16.7	9.9	56.5	939.4	667.5	172.2	3.0	1.000264
7500.0	777.0	17.1	8.8	59.1	928.3	665.5	146.5	.7	1.000258
8000.0	753.3	15.9	7.5	58.5	915.6	664.1	24.0	2.5	1.000252
8500.0	750.1	15.4	7.0	57.5	901.4	663.4	19.1	5.4	1.000247
9000.0	735.9	14.4	6.1	57.5	888.5	662.2	24.3	7.0	1.000241
9500.0	723.8	12.7	4.9	59.0	878.0	660.2	27.4	8.2	1.000236
10000.0	713.5	12.4	4.5	58.5	863.3	659.8	29.7	9.1	1.000231
10500.0	698.0	11.9	4.0	58.5	849.3	659.2	33.3	9.8	1.000227
11000.0	685.4	10.5	3.5	61.0	838.1	657.6	37.1	10.5	1.000224
11500.0	672.9	9.1	2.9	64.5	827.0	655.9	41.9	10.1	1.000220
12000.0	659.3	7.5	2.2	67.9	816.1	654.3	43.9	9.1	1.000216
12500.0	645.0	6.9	1.7	69.5	803.7	653.2	36.4	7.0	1.000212
13000.0	636.7	5.0	1.1	73.7	791.4	652.2	17.1	5.2	1.000209
13500.0	625.1	5.2	.6	72.1	779.3	651.2	343.5		1.000205
14000.0	613.5	4.2	.0	74.2	767.8	650.0			1.000201
14500.0	602.2	2.8	-0.6	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 N16
 106.17933 LONG W16

TABLE 13

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT	PERCENT		DIRECTION D. GREES (TN)	SPEED KNOTS
850.0	6969.	23.6	15.1	59.		152.8	6.2
800.0	6693.	19.3	10.6	57.		174.6	4.5
750.0	6503.	15.3	7.0	58.		17.2	5.4
700.0	6341.	12.1	4.1	58.		32.6	9.6
650.0	6232.	7.0	1.7	59.		37.5	7.3
600.0	6180.	2.5	-0.8	79.			

STATION ALTITUDE 12 2.00 FEET MSL
 1531 HDT
 7 HOURS IN
 ASCENSION No. 110

SIGNIFICANT LEVEL DATA

2000020410
 WHITE SANDS

TABLE 14

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

PRESSURE	GEOMETRIC	TEMPERATURE	REL. HUM.
WILLIAMS	ALTITUDE	AIR	PERCENT
MSL	FEET	DEGREES	
FEET		CENTIGRADE	
577.6	3957.0	29.7	15.5
859.7	4265.8	26.9	15.5
950.0	4914.0	25.9	15.2
700.0	17412.3	12.0	5.9
549.7	12452.1	7.4	3.3
577.7	15037.7	2.3	-3.6
			45.0
			53.0
			55.0
			60.0
			75.0
			65.0

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

UPPER AIR DATA
2200020410
WHITE SANDS

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

TABLE 15

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY G/M ³	SPEED OF SOUND M/SEC	WIND DATA DIRECTION DEGREES (T)	SPEED KNOTS	INDEX OF REFRACTION
3989.0	877.5	29.7	16.5	1001.3	690.7	350.0	5.1	1.000301
4000.0	877.3	29.6	16.5	1001.3	690.5	350.0	5.0	1.000301
4500.0	852.3	26.5	16.4	994.2	677.2	347.7	3.1	1.000390
5000.0	847.5	25.7	16.0	980.0	676.2	339.5	1.2	1.000296
5500.0	832.7	24.4	15.1	957.2	674.7	339.1	.8	1.000285
6000.0	819.1	23.2	14.2	954.5	673.1	326.4	1.9	1.000233
6500.0	803.8	21.9	13.3	942.2	671.5	205.7	2.3	1.000277
7000.0	789.7	20.6	12.4	930.0	670.1	230.0	3.3	1.000271
7500.0	775.9	19.4	11.5	917.9	668.5	210.4	4.0	1.000265
8000.0	762.3	18.1	10.5	906.0	667.0	168.7	6.5	1.000259
8500.0	748.9	16.8	9.6	894.3	665.4	148.5	6.5	1.000253
9000.0	735.5	15.6	8.6	882.7	663.9	128.5	4.8	1.000248
9500.0	722.9	14.3	7.6	871.3	662.3	39.4	2.3	1.000242
10000.0	710.3	13.0	6.7	860.1	660.8	27.9	3.6	1.000237
10500.0	697.8	11.8	5.7	849.8	659.3	31.7	4.4	1.000232
11000.0	695.1	10.7	5.1	836.8	657.9	38.1	4.7	1.000226
11500.0	672.7	9.5	4.5	825.0	656.5	27.9	5.6	1.000224
12000.0	650.5	8.4	3.9	813.4	655.2	14.7	7.1	1.000220
12500.0	649.5	7.3	3.2	801.9	653.9	1.6	9.9	1.000216
13000.0	636.6	6.5	2.1	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	765.6	650.8	349.1	10.6	1.000200
14500.0	602.0	4.1	-1.2	753.8	649.9			1.000196
15000.0	590.9	3.3	-2.3	742.2	648.8			1.000191
15500.0	589.0	2.5	-3.4	730.8	647.8			1.000187

STATION ALTITUDE 1531 FEET
 7 AUG 67
 OBSERVATION NO. 1531 MU

WINDUATION LEVELS
 00000000
 WHITE SANDS

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 16

PRESSURE EQUIVALENT		TEMPERATURE		REL. HUM.		WIND DATA	
VILLIANS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
550.0	5715.	25.2	16.2	55.	341.6	1.5	
600.0	5658.	21.5	13.1	58.	215.0	2.6	
750.0	5454.	16.9	9.6	62.	149.0	6.5	
700.0	12402.	12.0	5.9	66.	37.5	4.3	
650.0	12426.	7.4	3.2	75.	3.1	8.7	
600.0	14579.	3.2	-1.4	68.			

END

FILMED

2-85

DTIC