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DR 1091
NOVEMBER 1979

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LEVEL

METEOROLOGICAL DATA REPORT

19901A Honest John
Missile No. 2042
Round No. 664 AM
14 November 1979

by

White Sands Meteorological Team

DTIC
SELECTED
APR 3 1980
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ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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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 19901A Honest John, Missile Number 2042, Round Number 664 AML are presented in tabular form.			

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INTRODUCTION

19901A Honest John, Missile Number 2042, Round Number 664 AML, was launched from CP-7, White Sands Missile Range (WSMR), New Mexico, at 1045 MST, 14 Nov 79. The scheduled launch time was 0930 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 CP-7 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33.

b. Upper Air - Air structure data (rawinsonde) was collected at the following Met Sites. Data was collected from surface to 95,000 feet in 500-foot increments.

SITE AND TIME

Jallen 0830 MST

Accession For	
NTIS <input checked="" type="checkbox"/>	<input type="checkbox"/>
DDC TAB <input type="checkbox"/>	<input type="checkbox"/>
Unannounced Justification	
By _____	
Distribution/	
Availability Codes	
Dist	Avail and/or special
A	23 CP

TABLE 1. Surface Observations taken at 1045 MST,,
 14 November 1979, at CP-7, 19901A Honest
 John, Missile Number 2042, Round Number 664 AML.

ELEVATION		FT/MSL
PRESSURE	859.2	MB'S
TEMPERATURE	11.8	°C
RELATIVE HUMIDITY	48	
DEW POINT	1.1	°C
DENSITY	1046	GM/M ³
WIND SPEED	Calm	KTS
WIND DIRECTION		DEGREES
CLOUD COVER	3	AC
CLOUD COVER	1	Cs
CLOUD COVER	1	Ci

GEODETIC COORDINATES
 53.10712 LAT DEG
 106.49511 LON DEG

SIGNIFICANT LEVEL UNIT
 310050154
 JALLEN

TABLE 2

STATION ALTITUDE 4051.00 FEET MSL
 14 NOV. 79 0830 HRS MST
 ASCC 510.00. 154

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE FEET	TEMPERATURE AIR DEGREE F	REL. HUM. PERCENT
655.0	451.0	4.5	41.0
655.5	454.2	5.9	33.0
659.7	515.5	5.6	32.0
664.4	519.9	6.2	22.9
777.0	757.1	3.1	48.0
783.2	761.2	7.5	22.0
790.7	1010.3	1.1	19.0
802.2	1174.6	1.1	15.0
892.2	1457.6	-6.8	20.0
896.8	1458.1	-16.9	45.0
905.5	2159.4	-21.8	34.0
102.9	2167.4	-24.0	45.0
930.5	2257.1	-23.4	29.0
930.0	2432.5	-28.0	34.0
935.2	2792.3	-34.5	49.0
938.0	2822.2	-36.1	35.0
947.1	2900.0	-40.0	38.0
960.0	3014.0	-42.9	
966.0	3465.5	-53.0	
220.0	3750.1	-59.5	
200.0	3945.4	-62.8	
173.4	4252.6	-61.4	
165.0	4315.2	-59.0	
158.0	4375.7	-60.2	
121.5	4812.3	-62.0	
110.7	5150.1	-61.2	
130.0	5302.1	-63.0	
89.0	5509.3	-63.0	
80.2	5815.0	-60.5	
70.0	6020.1	-62.0	
59.4	6426.3	-63.4	
55.0	6550.7	-57.5	
50.0	6703.0	-60.0	
45.0	7012.8	-60.7	
39.2	7273.9	-56.3	
30.0	7589.0	-55.6	
20.0	8701.5	-54.2	
13.0	9590.4	-47.0	

UPPER AIR DATA
 ST30030154
 JALLER
 TABLE 3

STATION ALTITUDE 4051.00 FEET MSL
 14 NOV. 79 0830 HRS MST
 ASLCSION NO. 154

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	TEMPERATURE DEVIATION CENTIGRADE	REL. HUMID. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4051.0	805.0	4.5	-7.6	41.0	1109.5	049.0		0.0	1.000264
4500.0	870.9	5.5	-8.3	36.7	1033.2	050.0			1.000259
5000.0	934.8	5.8	-8.4	32.0	1060.2	051.1			1.000252
5500.0	999.0	5.9	-8.5	32.0	1040.0	051.2			1.000248
6000.0	1063.0	5.9	-8.3	33.8	1020.0	051.2			1.000244
6500.0	1127.0	5.9	-8.0	34.4	1010.9	050.2		11.1	1.000242
7000.0	1191.4	4.1	-7.4	43.0	995.3	049.2		11.6	1.000239
7500.0	1255.7	3.2	-6.9	47.7	980.0	049.2		11.6	1.000236
8000.0	1320.1	2.4	-6.1	42.3	964.7	047.1		12.1	1.000230
8500.0	1384.8	1.5	-11.0	36.1	949.7	040.1		11.2	1.000224
9000.0	1449.8	.7	-14.0	29.9	934.9	045.0		10.4	1.000218
9500.0	1514.0	-1.1	-13.5	23.7	920.4	044.0		10.5	1.000212
10000.0	1578.4	-1.1	-21.1	20.4	905.2	044.0		10.6	1.000207
10500.0	1642.1	.1	-21.0	18.5	889.0	044.2		9.9	1.000203
11000.0	1705.6	.1	-21.9	17.1	869.0	044.2		10.2	1.000199
11500.0	1769.1	.1	-22.9	15.8	852.0	044.2		10.5	1.000195
12000.0	1832.0	.4	-23.6	15.4	836.2	043.5		10.9	1.000191
12500.0	1894.0	-1.0	-23.9	16.2	820.6	042.1		10.5	1.000188
13000.0	1956.7	-2.8	-24.5	17.1	805.0	040.7		10.5	1.000186
13500.0	2019.7	-4.0	-24.8	18.0	801.0	039.3		10.7	1.000183
14000.0	2082.3	-5.2	-25.2	19.8	789.9	037.9		11.7	1.000180
14500.0	2144.7	-6.4	-25.7	19.7	770.3	030.5		13.8	1.000177
15000.0	2207.0	-7.6	-25.0	21.9	760.5	030.0		15.7	1.000175
15500.0	2269.2	-8.7	-25.2	24.8	754.3	033.0		17.4	1.000172
16000.0	2331.9	-9.9	-25.0	27.0	743.5	032.2		18.4	1.000170
16500.0	2394.8	-11.1	-25.0	30.7	731.9	030.8		18.7	1.000167
17000.0	2457.0	-12.5	-25.0	33.6	720.5	029.4		19.3	1.000165
17500.0	2519.4	-13.5	-25.1	36.6	709.0	027.9		20.1	1.000163
18000.0	2581.0	-14.7	-25.4	39.5	699.1	020.5		21.1	1.000160
18500.0	2643.8	-15.9	-25.7	42.4	690.0	029.1		22.3	1.000158
19000.0	2706.7	-17.1	-25.0	45.7	678.1	023.6		24.2	1.000155
19500.0	2769.0	-18.5	-25.5	51.1	660.0	021.9		26.6	1.000153
20000.0	2831.0	-19.9	-26.3	56.5	653.1	020.2		28.6	1.000151
20500.0	2893.0	-21.5	-26.0	61.9	643.5	018.5		30.4	1.000149
21000.0	2955.0	-22.4	-23.1	59.2	630.0	017.1		32.2	1.000146
21500.0	3017.0	-23.5	-30.5	51.2	627.2	015.9		34.1	1.000143
22000.0	3079.0	-24.9	-33.1	42.4	615.9	015.1		36.2	1.000139
22500.0	3141.0	-26.5	-35.9	30.6	602.2	015.7		39.3	1.000136
23000.0	3203.0	-28.5	-37.0	30.2	592.5	014.3		39.8	1.000133
23500.0	3265.0	-29.8	-37.7	31.7	583.1	012.7		41.1	1.000131

AX WIND DATA INVALID DUE TO MISSING ROX AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4051.00 FEET MSL
 14 NOV. 79 0830 HRS MST
 ASCENSION NO. 154

UPPER AIR DATA
 318030154
 JALLLJ
 TABLE 3 (cont)

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LONG DEG

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CM ³ AT ALTITUDE	SPEED OF SOUND METERS	WIND DATA		INDEX OF REFRACTION
							DIRECTION DEGREES (T)	SPEED KNOTS	
4050.0	405.4	-27.2	-33.0	33.1	574.1	611.1	201.9	41.7	1.000129
4000.0	397.0	-28.4	-30.0	35.0	565.0	609.5	279.9	42.1	1.000127
3950.0	388.5	-29.6	-30.4	37.7	555.6	608.0	270.5	43.5	1.000125
3900.0	380.5	-30.6	-30.6	40.4	546.5	606.6	277.4	44.8	1.000123
3850.0	372.2	-31.9	-40.5	43.1	537.5	605.1	278.6	45.7	1.000121
3800.0	364.5	-33.1	-40.0	45.3	528.7	603.6	279.6	46.6	1.000119
3750.0	356.5	-34.5	-41.5	48.5	520.0	602.2	279.5	47.4	1.000117
3700.0	348.9	-35.1	-45.1	43.5	510.6	601.1	279.2	47.9	1.000115
3650.0	341.4	-35.9	-45.4	36.7	501.3	600.1	279.5	47.5	1.000112
3600.0	334.0	-37.2	-46.3	35.7	493.1	598.4	277.6	47.3	1.000110
3550.0	326.7	-38.7	-47.9	36.7	485.5	596.6	277.2	47.4	1.000109
3500.0	319.5	-40.1	-48.0	37.7	477.7	594.7	278.9	47.7	1.000107
3450.0	312.5	-41.2	-52.5	27.8**	469.3	593.3	276.5	48.3	1.000165
3400.0	305.6	-42.1	-59.7	12.6**	460.3	592.1	276.5	48.6	1.000163
3350.0	298.8	-43.1			452.5	590.3	278.1	47.9	1.000101
3300.0	292.0	-44.5			444.8	588.1	279.7	47.6	1.000099
3250.0	285.5	-45.6			437.3	587.4	261.4	48.8	1.000097
3200.0	278.8	-47.2			429.9	585.6	262.7	50.2	1.000096
3150.0	272.5	-48.9			422.6	583.9	262.2	52.1	1.000094
3100.0	266.2	-49.9			415.5	582.1	261.7	53.8	1.000093
3050.0	260.2	-51.5			408.5	580.3	260.9	53.7	1.000091
3000.0	254.2	-52.5			401.6	578.5	260.0	53.7	1.000089
2950.0	248.4	-53.3			394.7	576.9	260.5	54.1	1.000088
2900.0	242.5	-55.0			387.3	575.4	261.0	54.5	1.000086
2850.0	236.8	-56.1			380.1	573.9	260.5	53.9	1.000085
2800.0	231.2	-57.5			373.1	572.4	260.6	53.1	1.000083
2750.0	225.7	-58.4			366.1	570.9	260.0	51.8	1.000082
2700.0	220.4	-59.5			359.4	569.4	278.9	50.1	1.000080
2650.0	215.1	-60.4			352.1	568.5	278.0	48.8	1.000078
2600.0	209.9	-61.2			344.9	567.2	277.9	50.0	1.000077
2550.0	204.6	-62.0			337.9	566.1	277.9	51.2	1.000075
2500.0	199.9	-62.8			331.0	565.0	277.9	51.3	1.000074
2450.0	195.0	-62.6			322.6	563.4	277.9	51.2	1.000072
2400.0	190.5	-62.5			314.4	562.7	276.5	49.5	1.000070
2350.0	185.7	-62.1			306.4	562.0	279.4	47.1	1.000068
2300.0	181.2	-61.8			298.7	560.3	269.5	45.1	1.000067
2250.0	176.8	-61.0			291.1	558.6	261.0	43.6	1.000065
2200.0	172.5	-61.2			283.5	567.2	261.6	42.2	1.000063
2150.0	168.3	-60.0			275.2	565.7	265.3	41.1	1.000061
2100.0	164.5	-59.7			266.1	564.2	264.6	40.1	1.000060

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

STATION ALTITUDE 4051.00 FEET MSL
 14 NOV. 79 0330 HRS MST
 ASCE. SLO. NO. 134

UPPER AIR DATA
 5130030134
 JALLEN

TABLE 3 (cont)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY g/cubic meter	SPEED OF SOUND KNOTS	DIRECTION OF WIND DEGREES (T)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4400.0	100.4	-59.0		261.9	505.0	205.2	38.7	1.000053
4450.0	150.5	-60.0		255.7	505.8	205.0	37.3	1.000057
4500.0	152.3	-60.1		249.8	505.6	205.0	36.3	1.000056
4550.0	149.1	-60.3		244.0	505.4	205.1	35.7	1.000054
4600.0	145.5	-60.5		238.5	507.9	204.7	35.0	1.000053
4650.0	142.0	-61.7		233.1	507.5	204.4	33.5	1.000052
4700.0	138.5	-61.5		227.8	507.0	204.1	32.0	1.000051
4750.0	135.2	-61.5		222.7	505.0	203.0	30.1	1.000050
4800.0	132.0	-62.0		217.7	505.1	202.9	27.9	1.000048
4850.0	128.8	-61.9		212.5	505.2	202.1	26.0	1.000047
4900.0	125.7	-61.8		207.1	505.4	202.0	25.1	1.000046
4950.0	122.6	-61.7		201.9	505.5	201.9	24.3	1.000045
5000.0	119.7	-61.0		197.0	505.7	202.1	23.1	1.000044
5050.0	116.8	-61.4		192.1	505.8	202.0	21.6	1.000043
5100.0	113.9	-61.3		187.4	507.0	202.4	20.8	1.000042
5150.0	111.2	-61.2		182.8	507.1	202.8	22.3	1.000041
5200.0	108.5	-61.6		178.0	505.7	203.4	23.8	1.000040
5250.0	105.9	-62.0		174.7	505.1	203.5	23.9	1.000039
5300.0	103.3	-62.4		170.0	505.5	203.7	23.4	1.000038
5350.0	100.8	-62.0		167.0	504.9	202.7	22.4	1.000037
5400.0	98.3	-63.1		163.1	504.6	201.0	19.2	1.000036
5450.0	95.8	-63.2		159.2	504.5	200.2	16.0	1.000035
5500.0	93.6	-63.4		155.5	504.3	200.1	15.7	1.000035
5550.0	91.3	-63.5		151.8	504.1	200.1	16.8	1.000034
5600.0	89.1	-63.4		148.0	504.2	203.5	17.5	1.000033
5650.0	87.0	-62.8		144.0	503.1	203.1	15.5	1.000032
5700.0	84.9	-62.1		140.0	503.0	202.0	13.4	1.000031
5750.0	82.8	-61.4		136.2	505.9	205.1	12.5	1.000030
5800.0	80.8	-60.7		132.5	507.8	209.3	12.0	1.000030
5850.0	78.8	-60.7		129.3	507.9	204.4	11.7	1.000029
5900.0	76.9	-61.7		126.5	507.5	205.2	11.8	1.000028
5950.0	75.1	-61.2		123.4	507.1	201.0	12.2	1.000027
6000.0	73.3	-61.5		120.8	505.8	207.7	12.3	1.000027
6050.0	71.5	-61.4		117.9	505.4	209.9	11.0	1.000026
6100.0	69.8	-62.0		115.2	505.1	202.8	9.8	1.000026
6150.0	68.1	-62.2		112.5	505.6	201.9	9.6	1.000025
6200.0	66.4	-62.4		109.9	505.5	207.0	10.6	1.000024
6250.0	64.8	-62.7		107.3	505.2	205.0	11.6	1.000024
6300.0	63.3	-62.9		104.8	504.9	201.2	12.8	1.000023
6350.0	61.7	-63.1		102.4	504.7	200.4	14.0	1.000023

UNFOLD AIR DATA
 510030134
 JALLEN
 TABLE 3 (cont)

STATION ALTITUDE 4051.00 FEET MSL
 14 NOV. 79 0330 HRS MST
 ASLTS. NO. 134

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY G/M ³ (ICAO)	SPEED OF SOUND KNOTS	DIR. RES. (IN) DEGREES	WIND VELOCITY KNOTS	INDEX OF REFRACTION
6450.0	60.6	-63.5	100.0	504.4	299.7	15.3	1.000022	
6400.0	59.9	-62.4	97.2	505.5	297.7	15.9	1.000022	
6350.0	59.4	-60.3	93.9	506.4	295.9	16.5	1.000021	
6300.0	58.8	-58.2	90.7	511.3	293.2	16.0	1.000020	
6250.0	58.6	-57.9	88.4	511.0	291.1	12.2	1.000020	
6200.0	58.3	-57.0	86.6	510.8	290.0	8.4	1.000019	
6150.0	58.1	-57.0	84.7	510.0	307.1	5.4	1.000019	
6100.0	58.0	-57.0	82.9	509.3	322.4	2.9	1.000018	
6050.0	57.6	-60.1	81.1	508.7	23.5	1.6	1.000018	
6000.0	57.4	-60.2	79.2	508.5	63.9	1.6	1.000018	
5950.0	57.3	-60.4	77.4	508.3	228.9	1.8	1.000017	
5900.0	57.1	-57.5	75.6	508.1	231.6	4.2	1.000017	
5850.0	57.0	-57.7	73.8	507.8	231.9	5.7	1.000016	
5800.0	56.9	-61.0	71.8	508.8	231.1	6.2	1.000016	
5750.0	56.9	-59.2	69.9	509.9	230.4	6.7	1.000016	
5700.0	56.8	-58.4	68.0	510.9	232.6	6.5	1.000015	
5650.0	56.7	-57.7	66.1	511.9	240.1	5.5	1.000015	
5600.0	56.6	-56.9	64.3	512.9	250.8	4.6	1.000014	
5550.0	56.5	-56.3	62.5	513.7	264.3	4.0	1.000014	
5500.0	56.4	-56.2	61.1	513.3	270.7	3.8	1.000014	
5450.0	56.3	-56.2	59.7	513.9	269.9	3.7	1.000013	
5400.0	56.2	-56.1	58.3	514.0	300.9	3.7	1.000013	
5350.0	56.1	-56.0	56.4	514.0	307.0	2.9	1.000013	
5300.0	56.0	-56.0	55.5	514.1	317.4	2.2	1.000012	
5250.0	55.9	-55.9	54.2	514.2	330.3	1.6	1.000012	
5200.0	55.8	-55.8	52.9	514.3	342.0	1.0	1.000012	
5150.0	55.7	-55.8	51.6	514.4	35.0	0.5	1.000012	
5100.0	55.7	-55.7	50.4	514.4	45.0	0.3	1.000011	
5050.0	55.6	-55.7	49.1	514.5	145.5	0.5	1.000011	
5000.0	55.5	-55.6	48.1	514.6	174.1	0.0	1.000011	
4950.0	55.5	-55.5	46.9	514.7	184.5	1.2	1.000010	
4900.0	55.4	-55.4	45.5	514.8	194.7	2.1	1.000010	
4850.0	55.4	-55.4	44.7	514.9	183.2	3.4	1.000010	
4800.0	55.3	-55.3	43.7	515.0	152.5	4.6	1.000010	
4750.0	55.2	-55.2	42.6	515.1	181.3	5.9	1.000009	
4700.0	55.1	-55.1	41.6	515.1	179.3	7.2	1.000009	
4650.0	55.0	-55.0	40.6	515.1	177.9	8.5	1.000009	
4600.0	54.9	-54.9	39.7	515.1	177.1	9.3	1.000009	
4550.0	54.8	-54.8	38.7	515.1	177.6	7.2	1.000009	
4500.0	54.7	-54.8	37.5	515.1	178.9	5.0	1.000008	

STATION ALTITUDE 4001.00 FEET MSL
 14 NOV 79 0000 HRS MST
 ASCENSION NO. 154

UPPER AIR DATA
 030030154
 JALLET
 TABLE 3 (cont)

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49311 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBAR	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY G/CM ³	SPEED OF SOUND KNOTS	WIND DIRECTION (DEGREES TRUE)	WIND SPEED (KNOTS)	INDEX OF REFRACTION
04,000.0	25.1	-54.7		30.9	575.8	131.7	2.9	1.000008
04,500.0	22.8	-54.8		30.0	575.9	248.9	.9	1.000008
05,000.0	22.3	-54.5		30.2	576.0	323.2	2.7	1.000008
05,500.0	21.8	-54.5		34.3	576.1	332.7	5.3	1.000008
06,000.0	21.4	-54.4		33.5	576.2	332.2	6.8	1.000007
06,500.0	21.0	-54.3		32.7	576.3	329.2	7.2	1.000007
07,000.0	20.1	-54.2		31.9	576.4	324.7	7.6	1.000007
07,500.0	19.7	-53.8		31.2	577.0	321.7	8.0	1.000007
08,000.0	19.2	-53.4		31.4	577.5	321.8	8.0	1.000007
08,500.0	18.7	-52.9		29.8	578.1	321.9	8.0	1.000007
09,000.0	18.3	-52.5		28.9	578.7	322.6	8.0	1.000006
09,500.0	17.9	-52.0		28.2	579.3	329.5	8.4	1.000006
10,000.0	17.5	-51.6		27.5	579.9	341.9	9.4	1.000006
10,500.0	17.1	-51.1		26.8	580.5	351.5	10.8	1.000006
11,000.0	16.7	-50.7		26.1	581.1	353.8	12.4	1.000006
11,500.0	16.3	-50.2		25.3	581.7	0.2	14.1	1.000006
12,000.0	15.9	-49.8		24.8	582.2	11.9	16.0	1.000005
12,500.0	15.6	-49.3		24.2	582.8	18.4	18.0	1.000005
13,000.0	15.2	-48.9		23.6	583.4			1.000005
13,500.0	14.9	-48.4		23.0	584.0			1.000005
14,000.0	14.5	-48.0		22.5	584.6			1.000005
14,500.0	14.2	-47.5		21.9	585.2			1.000005
15,000.0	13.9	-47.1		21.4	585.8			1.000005

STATION ALTITUDE 4051.00 FEET MSL
 14 NOV. 79 0830 LRS MSI
 ASCENSION: NO. 154

MANDATORY LEVELS
 31800JUL54
 JALLER

TABLE 4

GEODETIC COORDINATES	MANDATORY LEVELS	STATION ALTITUDE	ASCENSION	TABLE 4	TEMPERATURE	REL. HUM.	WIND DATA
33.16712 LAT DEG	31800JUL54	4051.00 FEET MSL	NO. 154	TABLE 4	AIR DEPOSIT	PERCENT	DIRECTION SPEED
106.49511 LON DEG	JALLER	14 NOV. 79	0830 LRS MSI	TABLE 4	DEGREE		DEGREE(S) TN) KNOTS
					CENTIGRADE		
		PRESSURE GEOPOTENTIAL					
		MILLIBARS	FEET				
		850.0	5148.		5.6	32.	9999.0 9999.0XX
		800.0	6774.		4.5	41.	9999.0XX
		750.0	8409.		1.6	30.	11.2
		700.0	10004.		.1	19.	10.0
		650.0	12256.		-1.0	16.	10.7
		600.0	14579.		-8.0	19.	13.1
		550.0	16556.		-11.2	31.	10.8
		500.0	18915.		-16.9	45.	23.8
		450.0	21474.		-23.3	51.	34.1
		400.0	24234.		-20.0	34.	42.0
		350.0	27323.		-39.0	44.	47.9
		300.0	30352.		-42.9		40.1
		250.0	34792.		-53.6		54.0
		200.0	39394.		-62.8		51.3
		175.0	42101.		-61.5		43.1
		150.0	45257.		-60.2		35.8
		125.0	48763.		-61.8		25.0
		100.0	52901.		-63.0		21.5
		75.0	58015.		-60.5		11.9
		50.0	63734.		-62.0		10.0
		25.0	69352.		-63.3		15.4
		0.0	75994.		-60.0		1.8
		40.0	82174.		-56.9		4.7
		30.0	86178.		-55.6		.8
		25.0	89395.		-55.0		9.3
		20.0	92922.		-54.2		7.6
		15.0	96912.		-48.6		

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

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