

AD-A082 968

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2  
193088 MLRS, MISSILE NUMBER 1057, ROUND NUMBER V-97, 8 DECEMBER--ETC(U)  
DEC 79

UNCLASSIFIED

ERADCOM/ASL-DR-1102

NL

1 of 1  
AD  
ASLDRS6



END  
DATE  
FILMED  
5-80  
DTIC

## **DISCLAIMER NOTICE**

**THIS DOCUMENT IS BEST QUALITY PRACTICABLE. THE COPY FURNISHED TO DTIC CONTAINED A SIGNIFICANT NUMBER OF PAGES WHICH DO NOT REPRODUCE LEGIBLY.**

14 EPHDS /ASL DR 1192

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR 1102	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 19308B MLRS Missile Number 1057, Round Number V-97, <i>etc 1102</i>		5. TYPE OF REPORT & PERIOD COVERED
7. AUTHOR(s) <i>9</i> White Sands Meteorological <del>Team</del>		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS		8. CONTRACT OR GRANT NUMBER <i>16</i> <i>11921</i> DA Task 1F665702D127/02
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Cmd Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 88002		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS <i>17</i> <i>11921</i>
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research & Development Cmd Adelphi, MD 20783		12. REPORT DATE 8 December 1979 13. NUMBER OF PAGES 14
16. DISTRIBUTION STATEMENT (of this Report)		15. SECURITY CLASS. (of this report) UNCLASSIFIED
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)  Approved for public release; distribution unlimited.		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
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 the 19308B MLRS, Missile Number 1057, Round Number V-97 are presented in tabular form.		

# CONTENTS

	PAGE
INTRODUCTION -----	1
DISCUSSION -----	1
TABLES:	
1. Surface Observation taken at 1010 MST at D3-1/2 -----	2
2. D3-1/2 Pilot-Balloon-Measured Wind Data at 1010 MST --	3
3. DENVER Pilot-Balloon-Measured Wind Data at 1008 MST --	4
4. NW30 Significant Level Data at 1100 MST -----	5
5. NW30 Upper Air Data at 1100 MST -----	6
6. NW30 Mandatory Levels at 1100 MST -----	10

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

CP

## INTRODUCTION

19308B MLRS, Missile Number 1057, Round Number V-97,  
was launched from BRILLO, White Sands Missile Range (WSMR), New Mexico,  
at 1009:06 MST on 8 December 1979. The scheduled launch time was  
0845 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 ( $\text{gm}/\text{m}^3$ ), Wind direction and speed, and cloud cover were made at the D3-1/2 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

D3-1/2	2 km
DENVER	2 km

(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

NW30 1100 MST

TABLE 1. Surface Observations taken at 1010 MST,  
 8 December 1979, at D3-1/2, 19308B MLRS,  
 Missile Number 1057, Round Number V-97.

ELEVATION	3975	FT/MSL
PRESSURE	887.7	MBS
TEMPERATURE	7.5	°C
RELATIVE HUMIDITY	40	%
DEW POINT	-5.2	°C
DENSITY	1098	GM/M <sup>3</sup>
WIND SPEED	CALM	KTS
WIND DIRECTION		DEGREES
CLOUD COVER	1 CI	





STATION ALTITUDE 4010.40 FEET MSL  
 M DEC. 79  
 ASCENSION NO. 15

SIGNIFICANT LEVEL DATA  
 3420220015  
 NW 30

GEODETTIC COORDINATES  
 32.86497 LAT DEG  
 106.49714 LON DEG

TABLE 4

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
897.5	4010.4	9.4	39.0
883.0	4148.6	8.5	41.0
870.4	4539.3	9.3	43.0
858.0	5185.0	9.3	41.0
834.4	5689.2	9.1	41.0
822.6	6071.1	10.5	41.0
766.4	8005.2	8.4	41.0
700.0	10442.7	3.0	41.0
671.4	11550.8	1.9	34.0
651.4	12350.9	.6	52.0
604.0	14333.8	-2.5	44.0
500.0	19176.3	-12.1	32.0
400.0	24652.1	-25.0	32.0
357.2	27320.6	-32.1	33.0
315.0	30197.8	-39.5	34.0
300.0	31291.0	-42.1	52.0
250.0	35267.8	-51.9	44.0
223.2	37668.6	-55.5	32.0
200.0	39263.2	-57.5	33.0
184.8	41590.9	-60.0	34.0
161.4	44375.0	-61.5	52.0
150.0	45774.1	-60.9	44.0
140.0	47290.0	-60.4	32.0
133.2	48307.8	-62.6	33.0
126.4	49376.1	-61.6	34.0
116.4	51959.1	-62.7	52.0
103.8	53368.6	-65.0	44.0
100.0	54118.1	-64.6	32.0
91.6	55392.2	-63.3	33.0
79.8	58659.2	-67.9	52.0
70.0	61278.1	-67.9	44.0
50.0	68091.0	-65.0	32.0
30.0	78650.4	-62.7	33.0
26.4	81342.3	-56.6	34.0
		-55.0	

STATION ALTITUDE 4010.40 FEET MSL  
 8 DEC. 79 1100 HRS MST  
 ASCENSION NO. 15

UPPER AIR DATA  
 3420220015  
 11W 30

GEODETIC COORDINATES  
 32.86497 LAT DEG  
 106.49714 LON DEG

TABLE 5

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	LENSITY GM/CM <sup>3</sup> METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT DEGREES				DIRECTION DEGREES(TN)	SPEED KNOTS	
4010.4	837.9	9.4	-7.8	39.0	1092.1	655.5	0	0	1.000265
4500.0	871.7	9.2	-2.8	42.8	1073.1	655.4	195.8	1.7	1.000263
5000.0	855.8	9.3	-3.1	41.6	1053.2	655.4	195.8	3.5	1.000258
5500.0	840.2	9.2	-3.4	41.0	1034.5	655.3	195.8	5.2	1.000253
6000.0	824.9	10.2	-2.4	41.0	1011.7	656.6	204.5	6.4	1.000250
6500.0	810.9	10.0	-2.6	41.0	994.0	656.4	223.4	7.1	1.000245
7000.0	795.2	9.5	-3.1	41.0	977.9	655.7	232.3	8.6	1.000241
7500.0	780.8	8.9	-3.6	41.0	962.0	655.1	235.2	10.3	1.000237
8000.0	766.8	8.4	-4.1	41.0	946.4	654.4	238.1	11.0	1.000232
8500.0	752.5	7.3	-5.1	41.0	932.7	653.1	241.1	11.3	1.000228
9000.0	738.6	6.2	-6.1	41.0	919.2	651.8	244.4	11.5	1.000224
9500.0	725.0	5.1	-7.1	41.0	906.0	650.4	247.0	11.8	1.000219
10000.0	711.5	4.0	-8.1	41.0	893.0	649.1	246.2	12.8	1.000215
10500.0	698.5	2.9	-9.1	40.6	879.9	647.9	245.3	13.9	1.000211
11000.0	685.5	2.4	-10.6	37.5	865.2	647.2	244.4	15.1	1.000206
11500.0	672.7	2.0	-12.1	34.3	850.7	646.6	245.3	15.2	1.000202
12000.0	660.1	1.2	-9.7	44.1	836.9	645.8	247.1	14.8	1.000201
12500.0	647.7	.4	-8.5	51.4	823.4	644.9	249.0	14.3	1.000200
13000.0	635.5	.4	-9.7	49.4	810.3	643.9	250.8	14.6	1.000195
13500.0	623.5	-1.2	-10.9	47.4	797.4	643.0	251.7	16.5	1.000191
14000.0	611.7	-2.0	-12.2	45.3	784.7	642.0	252.2	19.1	1.000187
14500.0	600.1	-2.8	-13.5	43.6	772.3	641.0	252.4	21.2	1.000183
15000.0	588.5	-3.8	-14.7	42.3	760.2	639.7	253.9	20.6	1.000180
15500.0	577.1	-4.8	-16.0	41.1	748.4	638.5	255.8	19.3	1.000176
16000.0	565.0	-5.8	-17.2	39.9	736.7	637.3	258.3	17.7	1.000172
16500.0	553.0	-6.8	-18.5	38.6	725.2	636.1	260.9	16.4	1.000169
17000.0	544.5	-7.8	-19.8	37.4	713.9	634.9	261.3	17.3	1.000166
17500.0	533.8	-8.8	-21.0	36.2	702.8	633.7	261.8	18.2	1.000163
18000.0	523.5	-9.8	-22.3	34.9	691.9	632.5	262.4	19.0	1.000160
18500.0	513.4	-10.8	-23.6	33.7	681.1	631.3	262.4	18.9	1.000157
19000.0	503.5	-11.8	-24.9	32.4	670.5	630.1	261.9	16.0	1.000154
19500.0	493.4	-12.4	-26.4	32.0	660.1	628.7	261.2	15.8	1.000151
20000.0	483.5	-14.0	-27.1	32.0	649.7	627.5	260.2	12.9	1.000148
20500.0	473.7	-15.2	-29.1	32.0	639.5	625.8	265.4	10.4	1.000146
21000.0	464.2	-16.4	-29.2	32.0	629.5	624.4	275.2	8.2	1.000143
21500.0	454.8	-17.6	-30.2	32.0	619.7	622.9	296.9	8.2	1.000141
22000.0	445.7	-18.8	-31.3	32.0	610.0	621.5	312.7	8.9	1.000138
22500.0	436.7	-19.9	-32.3	32.0	600.5	620.0	313.3	8.7	1.000136
23000.0	427.9	-21.1	-33.4	32.0	591.2	618.6	312.3	8.1	1.000134
23500.0	419.2	-22.5	-34.4	32.0	582.0	617.1	307.2	6.8	1.000132

STATION ALTITUDE 4010.40 FEET MSL  
 4 DEC. 79 1100 HRS MST  
 ASCENSION NO. 15

UPPER AIR DATA  
 3420220015  
 RW 30

GEODETTIC COORDINATES  
 32.84497 LAT DEG  
 106.49714 LON DEG

TABLE 5 (CONT)

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	
24000.0	410.8	-23.5	32.0	573.0	615.7	307.6	6.2	1.000129
24500.0	402.5	-24.6	32.0	564.1	614.2	315.9	6.4	1.000127
25000.0	394.1	-25.9	32.1	555.3	612.0	310.6	7.5	1.000125
25500.0	385.9	-27.3	32.3	546.6	611.0	318.5	9.1	1.000123
26000.0	377.8	-28.6	32.5	538.0	609.3	322.7	11.0	1.000121
26500.0	369.9	-29.9	32.7	529.6	607.6	326.1	12.9	1.000119
27000.0	362.1	-31.2	32.9	521.4	606.0	328.1	14.2	1.000117
27500.0	354.4	-32.5	33.1	513.1	604.3	328.7	15.3	1.000115
28000.0	346.8	-33.8	33.2	504.7	602.7	324.8	15.6	1.000113
28500.0	339.3	-35.1	33.4	496.5	601.1	322.4	15.6	1.000111
29000.0	331.9	-36.4	33.6	488.4	599.4	322.3	14.9	1.000109
29500.0	324.8	-37.7	33.8	480.5	597.8	321.9	14.7	1.000108
30000.0	317.7	-39.0	33.9	472.7	596.2	321.2	14.8	1.000106
30500.0	310.8	-40.2	24.6**	464.8	594.6	318.2	15.0	1.000104
31000.0	303.9	-41.4	9.0**	456.9	593.1	314.5	15.2	1.000102
31500.0	297.1	-42.6		449.0	591.5	312.7	15.0	1.000100
32000.0	290.4	-43.8		441.2	589.9	311.1	14.8	1.000098
32500.0	283.8	-45.1		433.5	588.3	312.4	15.2	1.000097
33000.0	277.4	-46.3		426.0	586.8	313.9	15.7	1.000095
33500.0	271.1	-47.5		418.6	585.2	314.1	15.0	1.000093
34000.0	265.0	-48.8		411.4	583.6	314.3	16.3	1.000092
34500.0	259.0	-50.0		404.3	582.0	309.7	16.6	1.000090
35000.0	253.1	-51.2		397.3	580.3	304.9	17.0	1.000068
35500.0	247.3	-52.2		390.0	579.0	291.7	16.3	1.000087
36000.0	241.5	-53.0		382.1	578.0	278.5	16.9	1.000085
36500.0	235.9	-53.7		374.5	577.1	269.5	19.9	1.000083
37000.0	230.4	-54.5		367.0	576.1	265.3	23.2	1.000082
37500.0	225.0	-55.2		359.7	575.1	268.6	26.9	1.000080
38000.0	219.7	-55.8		352.1	574.4	271.4	29.8	1.000078
38500.0	214.5	-56.2		344.5	573.8	274.0	31.0	1.000077
39000.0	209.4	-56.7		337.0	573.2	277.2	31.6	1.000075
39500.0	204.5	-57.1		329.7	572.6	279.0	31.0	1.000073
40000.0	199.5	-57.6		322.6	572.0	281.4	30.4	1.000072
40500.0	194.9	-58.3		316.0	571.0	285.0	29.5	1.000070
41000.0	190.2	-59.1		309.6	570.0	289.7	29.0	1.000069
41500.0	185.7	-59.8		303.3	569.0	291.9	29.0	1.000068
42000.0	181.2	-60.2		296.5	568.5	293.9	29.2	1.000066
42500.0	176.9	-60.5		289.7	568.1	288.3	29.1	1.000065
43000.0	172.6	-60.9		283.1	567.8	282.7	29.4	1.000063
43500.0	168.4	-61.0		276.6	567.4	275.3	31.0	1.000062

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

UPPER AIR DATA  
 3420220015  
 NR 30

STATION ALTITUDE 4010.00 FEET MSL  
 8 DEC. 79 1100 HRS MST  
 ASCENSION NO. 15

GEODETIC COORDINATES  
 32.88497 LAT DEG  
 106.49714 LON DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CM <sup>3</sup>	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
44000.0	164.4	-61.3		279.3	567.0	268.6	33.2	1.000060
45000.0	160.4	-61.4		264.0	566.8	263.0	33.9	1.000059
46000.0	156.5	-61.2		257.4	567.1	261.8	34.7	1.000057
45000.0	152.8	-61.0		250.9	567.4	260.2	33.0	1.000056
46000.0	149.1	-60.9		244.6	567.6	258.5	31.3	1.000054
46500.0	145.3	-60.7		238.6	567.9	256.8	29.3	1.000053
47000.0	142.3	-60.5		232.6	568.1	255.0	27.3	1.000052
47500.0	138.5	-60.9		227.4	567.8	253.4	25.9	1.000051
48000.0	135.2	-61.9		223.0	566.2	252.7	25.8	1.000050
48500.0	132.0	-62.4		218.1	565.5	252.0	25.7	1.000049
49000.0	128.8	-62.0		212.4	566.2	251.6	25.7	1.000047
49500.0	125.6	-61.7		207.0	566.5	251.2	25.7	1.000046
50000.0	122.6	-62.0		202.3	566.1	250.3	25.7	1.000045
50500.0	119.6	-62.3		197.7	565.6	249.1	25.7	1.000044
51000.0	116.7	-62.7		193.2	565.2	248.9	25.6	1.000043
52000.0	113.9	-63.3		189.0	564.4	250.3	25.6	1.000042
52000.0	111.1	-64.0		185.0	563.5	251.8	25.4	1.000041
52500.0	108.4	-64.6		181.0	562.6	253.9	23.9	1.000040
53000.0	105.7	-65.3		177.2	561.8	255.3	22.5	1.000039
53500.0	103.1	-65.6		173.1	561.3	257.3	22.0	1.000039
54000.0	100.6	-64.3		168.2	562.3	256.2	21.5	1.000037
54500.0	98.1	-64.3		163.7	563.0	251.8	21.2	1.000036
55000.0	95.7	-64.9		159.4	563.5	257.4	21.2	1.000036
55500.0	93.4	-63.6		155.3	564.0	272.8	21.2	1.000035
56000.0	91.1	-63.5		151.4	564.1	275.5	18.9	1.000034
56500.0	88.9	-64.3		147.2	563.0	281.3	16.7	1.000033
57000.0	86.7	-65.1		145.2	561.9	282.9	14.6	1.000032
57500.0	84.5	-66.0		142.2	560.7	281.8	12.5	1.000032
58000.0	82.5	-66.8		139.2	559.6	282.0	10.9	1.000031
58500.0	80.4	-67.6		136.3	558.5	287.4	10.9	1.000030
59000.0	78.5	-67.5		132.9	558.6	292.7	11.0	1.000030
59500.0	76.5	-67.0		129.3	559.4	293.4	9.5	1.000029
60000.0	74.6	-66.4		125.7	560.1	296.4	7.7	1.000028
60500.0	72.8	-65.9		122.3	560.9	290.0	5.9	1.000027
61000.0	71.0	-65.3		119.0	561.6	253.6	5.2	1.000026
61500.0	69.2	-64.3		115.8	562.2	225.2	6.5	1.000026
62000.0	67.5	-64.3		112.9	562.4	222.6	7.5	1.000025
62500.0	65.9	-64.6		110.1	562.6	220.7	8.6	1.000025
63000.0	64.3	-64.4		107.3	562.8	222.1	8.9	1.000024
63500.0	62.7	-64.2		104.6	563.1	225.6	8.8	1.000023

UPPER AIR DATA  
 3420220015  
 MW 30

STATION ALTITUDE 4010.40 FEET MSL  
 8 DEC. 79 1100 HRS MST  
 ASCENSION. NO. 15

GEODETIC COORDINATES  
 32.88497 LAT DEG  
 106.49714 LON DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND M/KTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
64000.0	61.2	-64.1	102.0	563.3	228.9	228.9	8.8	1.000023
64500.0	59.7	-63.9	99.4	563.5	230.4	230.4	9.4	1.000022
65000.0	58.2	-63.7	96.9	563.8	231.7	231.7	10.0	1.000022
65500.0	56.8	-63.6	94.5	564.0	232.7	232.7	10.2	1.000021
66000.0	55.4	-63.4	92.1	564.2	233.5	233.5	10.2	1.000021
66500.0	54.1	-63.2	89.8	564.4	234.5	234.5	10.3	1.000020
67000.0	52.8	-63.1	87.5	564.7	237.6	237.6	10.9	1.000019
67500.0	51.5	-62.9	85.3	564.9	240.5	240.5	11.5	1.000019
68000.0	50.2	-62.7	83.2	565.1	241.8	241.8	12.1	1.000019
68500.0	49.0	-62.5	81.1	565.5	241.7	241.7	12.9	1.000018
69000.0	47.8	-62.2	79.0	565.9	241.7	241.7	13.7	1.000018
69500.0	46.7	-61.9	77.0	566.3	249.5	249.5	15.6	1.000017
70000.0	45.6	-61.6	75.1	566.6	256.5	256.5	17.9	1.000017
70500.0	44.5	-61.5	73.2	567.0	263.1	263.1	19.7	1.000016
71000.0	43.4	-61.3	71.3	567.4	272.8	272.8	19.6	1.000016
71500.0	42.4	-60.7	69.5	567.8	282.3	282.3	20.2	1.000015
72000.0	41.4	-60.4	67.8	568.2	286.0	286.0	17.9	1.000015
72500.0	40.4	-60.2	66.1	568.6	289.4	289.4	14.4	1.000015
73000.0	39.4	-59.9	64.4	569.0	293.3	293.3	11.3	1.000014
73500.0	38.5	-59.5	62.8	569.3	291.4	291.4	11.4	1.000014
74000.0	37.6	-59.3	61.2	569.7	289.6	289.6	11.6	1.000014
74500.0	36.7	-59.0	59.7	570.1	291.4	291.4	11.9	1.000013
75000.0	35.8	-58.7	58.1	570.5	293.9	293.9	12.4	1.000013
75500.0	34.9	-58.4	56.7	570.9	300.1	300.1	12.9	1.000013
76000.0	34.1	-58.1	55.3	571.3	298.2	298.2	12.4	1.000012
76500.0	33.3	-57.9	53.9	571.6	293.0	293.0	11.9	1.000012
77000.0	32.5	-57.6	52.5	572.0	292.6	292.6	12.2	1.000012
77500.0	31.7	-57.3	51.2	572.4	287.0	287.0	13.7	1.000011
78000.0	31.0	-57.0	49.9	572.8	280.0	280.0	15.4	1.000011
78500.0	30.2	-56.7	48.6	573.2	282.6	282.6	16.3	1.000011
79000.0	29.5	-56.4	47.4	573.6	279.0	279.0	16.8	1.000011
79500.0	28.8	-56.1	46.2	574.0	275.0	275.0	17.4	1.000010
80000.0	28.1	-55.8	45.1	574.4				1.000010
80500.0	27.5	-55.5	44.0	574.7				1.000010
81000.0	26.8	-55.2	42.9	575.1				1.000010

STATION ALTITUDE 4010.40 FEET MSL  
 8 DEC. 79 1100 HRS MST  
 ASCENSION: NO. 15

MANDATORY LEVELS  
 3420220015  
 NW 30

GEODETIC COORDINATES  
 32.88497 LAT DEG  
 106.49714 LONG DEG

TABLE 6

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE		REL. HUMID. PERCENT	WIND DATA	
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5181.	9.3	-3.3	41.	195.8	4.1
800.0	5833.	9.7	-2.9	41.	231.1	8.0
750.0	8585.	7.1	-5.2	41.	241.7	11.3
700.0	10433.	3.0	-8.9	41.	245.5	13.7
650.0	12395.	.5	-8.2	52.	248.0	14.4
600.0	14400.	-2.8	-13.5	44.	252.4	21.2
550.0	16735.	-7.3	-19.1	38.	261.1	16.9
500.0	19150.	-12.1	-25.4	32.	261.7	17.7
450.0	21764.	-18.2	-30.8	32.	308.4	8.6
400.0	24612.	-25.0	-36.8	32.	318.1	6.5
350.0	27743.	-33.3	-43.9	33.	326.3	15.5
300.0	31230.	-42.1			313.3	15.2
250.0	35192.	-51.9			298.4	16.6
200.0	39869.	-57.5			200.9	30.5
175.0	42612.	-60.6			286.1	29.2
150.0	45753.	-60.9			259.0	31.8
125.0	49463.	-61.7			251.2	25.7
100.0	53953.	-64.6			258.4	21.4
75.0	58419.	-67.8			286.3	10.9
50.0	61071.	-65.0			238.5	5.7
25.0	64162.	-63.9			230.0	9.2
0.0	67838.	-62.7			241.8	12.2
40.0	72380.	-60.0			290.5	13.4
30.0	78319.	-59.6			201.8	16.4

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