

AD-A087 535

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/6 4/2
19306B MLRS, MISSILE NUMBER 1127, ROUND NUMBER V-111, 4 FEBRUAR--ETC(U)
FEB 80

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM	
1. REPORT NUMBER DR 1123	2. GOVT ACCESSION NO. AD-A087535	3. RECIPIENT'S CATALOG NUMBER	
4. TITLE (and Subtitle) 19306B MLRS Missile Number 1127 Round Number V-111		5. TYPE OF REPORT & PERIOD COVERED	
		6. PERFORMING ORG. REPORT NUMBER	
7. AUTHOR(s) White Sands Meteorological Team		8. CONTRACT OR GRANT NUMBER(s) DA Task 1F665702D127-02	
9. PERFORMING ORGANIZATION NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS	
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 February 1980	
		13. NUMBER OF PAGES 16	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research & Development Cmd Adelphi, MD 20783		15. SECURITY CLASS. (of this report) UNCLASSIFIED	
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE	
16. DISTRIBUTION STATEMENT (of this Report) <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"><p style="text-align: center;">DISTRIBUTION STATEMENT A Approved for public release; Distribution Unlimited</p></div>			
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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 19306B MLRS, Missile Number 1127, Round Number V-111 are presented in tabular form.			

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INTRODUCTION

19306B MLRS, Missile Number 1127, Round Number V-111,
was launched from SNAKE, White Sands Missile Range (WSMR), New Mexico,
at 1406 MST, 04 Feb 80. The scheduled launch time was 1000:12
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 Snake 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 RPTS T-9 pibal observation at:

SITE AND ALTITUDE

Snake	360 Meters
Denver	2 KM

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 83,500 feet in 500-foot increments.

SITE AND TIME

Jallen 1400 MST

SNAKE SOTIM

HAWK 70

[8]

QUEEN 15
Y-550,000

HAYFIELD
TARGET

[9]

[23]

319

SW. 70

314

Y-525,000

X-500,000

[9]

[7]

Y-500,000

ALPENS

315

I.D. STRIP

MAI

DENVER

316

CHODES KIT

SUNNOW

318

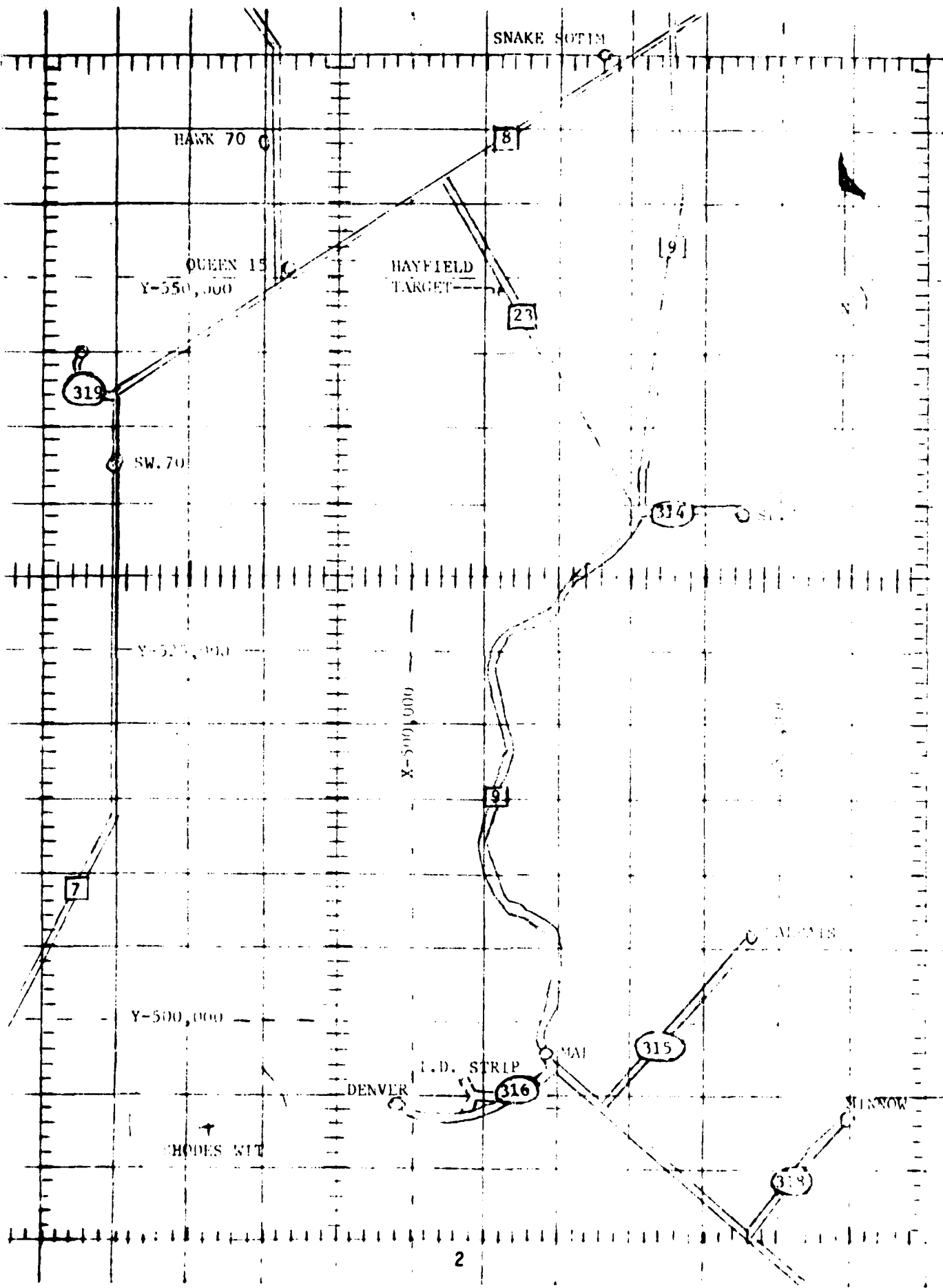


TABLE 1. Surface Observations taken at 1405 MST, 04 February 1980, at Snake Site, 19306B MLRS, Missile Number 1127, Round Number V-111.

ELEVATION	Unknown	FT/MSL
PRESSURE	863.2	MBS
TEMPERATURE	22.4	°C
RELATIVE HUMIDITY	20	%
DEW POINT	-1.8	°C
DENSITY	1014	GM/M ³
WIND SPEED	09	KTS
WIND DIRECTION	295	DEGREES
CLOUD COVER	6	ci

STATION ALTITUDE 4051.00 FEET MSL
 4 FEET H9
 ASCENSION NO. 34

SIGNIFICANT LEVEL DATA
 0500Z 30JUN 54
 JALLEN
 TABLE 5

STATION ALTITUDE 4051.00 FEET MSL
 4 FEET H9
 ASCENSION NO. 34

GEOMETRIC COORDINATES	REL. HUMID. PERCENT	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	WIND DIRECTION PERCENT
33.10712 LAT N	28.0	1.0	28.0
106.49511 LON W	30.0	1.0	30.0
	36.0	.1	36.0
	37.0	-1.2	37.0
	32.0	-4.2	32.0
	33.0	-10.1	33.0
	32.0	-11.0	32.0
	37.0	-17.4	37.0
	34.0	-22.2	34.0
	38.0	-24.0	38.0
	46.0	-25.3	46.0
	53.0	-24.1	53.0
	49.0	-29.0	49.0
	35.0	-32.5	35.0
	31.0	-37.8	31.0
	40.0	-40.1	40.0
	54.0	-49.5	54.0
	20.0	20.0	20.0
	16.0	16.0	16.0
	15.0	15.0	15.0
	13.1	13.1	13.1
	12.0	12.0	12.0
	4.8	4.8	4.8
	-2	-2	-2
	-5.0	-5.0	-5.0
	-9.3	-9.3	-9.3
	-13.6	-13.6	-13.6
	-16.4	-16.4	-16.4
	-16.6	-16.6	-16.6
	-21.2	-21.2	-21.2
	-21.2	-21.2	-21.2
	-25.7	-25.7	-25.7
	-39.7	-39.7	-39.7
	-44.0	-44.0	-44.0
	-54.2	-54.2	-54.2
	-64.6	-64.6	-64.6
	-65.6	-65.6	-65.6
	-62.4	-62.4	-62.4
	-61.0	-61.0	-61.0
	-61.1	-61.1	-61.1
	-62.2	-62.2	-62.2
	-65.4	-65.4	-65.4
	-64.6	-64.6	-64.6
	-62.4	-62.4	-62.4
	-61.9	-61.9	-61.9
	-64.6	-64.6	-64.6
	-64.0	-64.0	-64.0
	-65.0	-65.0	-65.0
	-66.0	-66.0	-66.0
	-57.5	-57.5	-57.5
	-59.6	-59.6	-59.6
	-55.1	-55.1	-55.1
	-56.6	-56.6	-56.6
	-55.9	-55.9	-55.9
	-49.7	-49.7	-49.7
	878.0	4051.0	4051.0
	807.0	4365.6	4365.6
	650.0	4950.2	4950.2
	629.0	5649.1	5649.1
	789.6	6590.6	6590.6
	700.0	10254.5	10254.5
	691.6	12504.3	12504.3
	590.2	14749.7	14749.7
	532.8	17372.0	17372.0
	500.0	18975.2	18975.2
	475.0	20054.8	20054.8
	475.7	20214.1	20214.1
	449.6	22000.7	22000.7
	433.6	22080.6	22080.6
	400.0	24421.8	24421.8
	320.0	29594.4	29594.4
	300.0	31633.9	31633.9
	250.0	34975.7	34975.7
	200.0	39573.6	39573.6
	187.6	4053.2	4053.2
	178.6	41450.7	41450.7
	157.4	44439.0	44439.0
	150.0	45911.8	45911.8
	141.8	46557.5	46557.5
	136.0	48255.5	48255.5
	116.6	50531.5	50531.5
	106.0	52334.7	52334.7
	100.6	55529.5	55529.5
	82.4	57557.9	57557.9
	76.8	5883.1	5883.1
	70.6	60969.9	60969.9
	65.2	62239.2	62239.2
	58.8	64354.4	64354.4
	55.4	65550.9	65550.9
	50.0	67644.6	67644.6
	41.0	71309.0	71309.0
	35.0	74075.6	74075.6
	30.0	76522.7	76522.7
	28.2	79622.8	79622.8
	25.0	83274.0	83274.0

UPPER AIR DATA
 0550000Z
 JALLEN
 TABLE 6

STATION ALTITUDE 4051.00 FEET MSL
 4 FEB 50
 ASCENSION NO. 34

GEODETIC COORDINATES
 33.10712 LAT DEG
 106.49511 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARMS	TEMPERATURE AIR DEGREES	TEMPERATURE WETBULB POINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC MLTER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (T)	WIND SPEED KNOTS	INDEX OF REFRACTION
4051.0	878.0	20.0	1.0	28.0	1040.4	668.0	00	00	1.000261
4500.0	864.9	15.8	.8	36.0	1033.8	663.2			1.000261
5000.0	848.7	14.9	-0.0	36.1	1025.6	662.1			1.000256
5500.0	833.5	13.5	-1.0	36.8	1018.3	660.4			1.000251
6000.0	818.3	12.8	-2.0	35.7	994.7	659.6			1.000246
6500.0	803.8	12.4	-3.1	33.6	978.3	659.1			1.000241
7000.0	789.3	12.0	-4.2	32.0	962.3	658.5			1.000235
7500.0	774.9	10.9	-5.1	32.2	948.5	657.2			1.000231
8000.0	760.8	9.8	-6.0	32.3	934.9	655.9			1.000227
8500.0	746.9	8.7	-6.9	32.5	921.5	654.0			1.000223
9000.0	733.3	7.6	-7.8	32.6	908.3	653.5			1.000219
9500.0	719.7	6.5	-8.7	32.8	895.3	652.0			1.000215
10000.0	705.7	5.4	-9.6	32.9	882.0	650.7			1.000211
10500.0	693.7	4.3	-10.2	33.9	859.7	649.4			1.000208
11000.0	680.7	3.2	-10.4	35.9	856.9	648.1			1.000205
11500.0	668.0	2.1	-10.8	37.8	844.2	646.8			1.000202
12000.0	655.6	1.0	-11.1	39.8	831.7	645.6			1.000198
12500.0	643.4	-0.1	-11.5	41.7	819.5	644.3			1.000195
13000.0	631.2	-1.2	-12.7	41.0	807.3	642.9			1.000192
13500.0	619.2	-2.3	-14.0	39.9	795.2	641.0			1.000188
14000.0	607.4	-3.4	-15.4	38.7	783.4	640.3			1.000184
14500.0	595.9	-4.5	-16.7	37.0	771.8	638.9			1.000181
15000.0	584.5	-5.4	-17.9	36.7	759.7	637.0			1.000177
15500.0	573.2	-6.2	-18.8	36.1	747.4	636.0			1.000174
16000.0	562.1	-7.0	-19.7	35.6	735.3	635.0			1.000171
16500.0	551.3	-7.9	-20.6	35.0	723.3	634.8			1.000167
17000.0	540.8	-8.7	-21.5	34.4	711.6	633.8			1.000164
17500.0	530.1	-9.6	-22.4	34.3	700.3	632.6			1.000161
18000.0	519.7	-11.0	-23.2	35.6	690.1	631.0			1.000159
18500.0	509.5	-12.3	-24.0	36.8	680.1	629.4			1.000156
19000.0	499.5	-13.7	-24.8	38.2	670.2	627.7			1.000154
19500.0	489.6	-14.9	-25.0	41.7	660.0	626.2			1.000152
20000.0	479.8	-16.2	-25.2	45.3	650.0	624.7			1.000149
20500.0	470.2	-17.5	-24.8	52.4	640.2	623.1			1.000147
21000.0	460.7	-18.7	-26.2	51.3	630.4	621.7			1.000145
21500.0	451.4	-19.8	-27.5	50.2	620.4	620.2			1.000142
22000.0	442.3	-21.0	-28.0	49.2	610.7	618.8			1.000139
22500.0	433.3	-21.2	-28.6	35.0	590.9	616.4			1.000136
23000.0	424.3	-22.9	-33.9	31.9	570.4	617.0			1.000133
23500.0	415.6	-23.6	-35.3	32.9	559.9	615.0			1.000131

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

UPPER AIR DATA
 0350030034
 JALLEN
 TABLE 6 (cont)

STATION ALTITUDE 4051.00 FEET MSL
 4 FEB. 50
 1400 HRS MST
 ASCENDING 110. 34

GEOMETRIC COORDINATES
 33.16712 LAT DEG
 106.49511 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARs	AIR TEMPERATURE DEGREES	TEMPERATURE DEVIATION CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
24000.0	407.1	-24.7	-36.6	31.9	570.7	614.1	306.1	48.6	1.000129
25000.0	398.7	-25.9	-37.9	31.1	561.6	612.0	305.9	47.4	1.000127
25000.0	390.1	-27.3	-38.9	32.0	552.6	610.9	305.6	46.1	1.000124
25000.0	381.8	-28.6	-39.8	32.9	543.8	609.3	305.5	44.4	1.000122
25000.0	373.7	-30.0	-40.8	33.7	535.2	607.6	305.4	42.5	1.000120
25000.0	365.7	-31.3	-41.8	34.6	526.7	605.9	305.3	43.1	1.000118
27000.0	357.9	-32.7	-42.7	35.5	518.4	604.2	304.2	43.9	1.000116
27500.0	350.3	-34.0	-43.7	36.4	510.2	602.5	297.7	44.7	1.000114
28000.0	342.8	-35.4	-44.8	37.2	502.2	600.8	294.3	45.6	1.000113
28500.0	335.5	-36.7	-45.8	38.1	494.3	599.0	293.2	47.2	1.000111
29000.0	328.3	-38.1	-46.8	39.0	486.5	597.3	292.2	48.8	1.000109
29500.0	321.3	-39.4	-47.9	39.8	478.9	595.5	291.4	50.0	1.000107
30000.0	314.2	-40.9	-48.4	43.9	471.3	593.7	290.6	51.1	1.000106
30500.0	307.3	-42.4	-48.8	48.8	463.9	591.8	289.7	51.5	1.000104
31000.0	300.5	-43.9	-49.4	53.7	456.5	589.9	288.8	51.6	1.000102
31500.0	293.6	-45.2	-51.7	47.6**	448.7	588.2	288.2	51.5	1.000100
32000.0	286.9	-46.5	-54.2	40.8**	440.9	586.5	287.9	51.4	1.000098
32500.0	280.3	-47.8	-56.8	33.9**	433.3	584.8	288.2	51.9	1.000097
33000.0	273.9	-49.1	-59.3	27.1**	425.9	583.2	288.6	52.9	1.000095
33500.0	267.6	-50.4	-63.1	20.2**	418.5	581.5	290.2	54.0	1.000093
34000.0	261.3	-51.7	-67.2	13.3**	411.4	579.8	292.1	55.3	1.000092
34500.0	255.2	-53.0	-73.2	6.5**	404.3	578.1	293.9	57.0	1.000090
35000.0	249.7	-54.3			397.4	576.4	295.2	59.5	1.000088
35500.0	243.7	-55.6			389.9	574.9	296.4	62.0	1.000087
36000.0	237.9	-56.6			382.6	573.3	297.2	64.8	1.000085
36500.0	232.2	-57.7			375.4	571.8	298.0	67.7	1.000084
37000.0	226.6	-58.9			368.3	570.3	298.4	69.3	1.000082
37500.0	221.2	-60.0			361.5	568.7	299.4	70.5	1.000081
38000.0	215.9	-61.2			354.8	567.2	298.4	71.1	1.000079
38500.0	210.7	-62.3			348.1	565.7	297.9	70.4	1.000078
39000.0	205.6	-63.3			341.7	564.1	297.2	68.9	1.000076
39500.0	200.7	-64.6			335.3	562.6	296.4	67.3	1.000075
40000.0	195.8	-65.1			328.8	562.0	295.2	65.5	1.000073
40500.0	191.0	-65.4			322.0	561.0	294.0	63.6	1.000071
41000.0	186.3	-65.1			315.0	561.9	292.2	62.8	1.000069
41500.0	181.7	-65.3			308.0	564.0	290.4	62.3	1.000067
42000.0	177.3	-62.3			299.0	563.7	288.3	61.8	1.000065
42500.0	173.9	-62.0			293.5	566.0	286.1	61.1	1.000064
43000.0	168.8	-61.8			288.2	568.4	283.6	60.4	1.000062
43500.0	164.7	-61.5			281.2	570.8	282.4	59.1	1.000060

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

STATION ALTITUDE 4051.00 FEET MSL
 4 FEB. 60 1400 HRS MST
 ASCENSION NO. 34

UPPER AIR DATA
 0350030034
 JALLEN
 TABLE 6 (cont)

GEODETTIC COORDINATES
 33.16712 LAT LEG
 106.49511 LONG LEG

GEO-METRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GRAMS PER CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION (DEGREES TRUE)	WIND DATA		INDEX OF REFRACTION
							SPEED KNOTS	ANGLE	
4400.0	160.0	-61.2		264.3	507.1	281.2		57.5	1.000059
4450.0	156.9	-61.1		257.7	507.2	281.0		56.7	1.000057
4500.0	153.1	-62.2		247.4	505.9	281.7		56.5	1.000056
4550.0	149.4	-62.9		247.4	505.0	282.0		56.2	1.000055
4600.0	145.7	-62.0		240.5	500.1	284.2		55.8	1.000054
4650.0	142.2	-61.2		233.7	507.2	285.6		55.4	1.000052
4700.0	138.8	-61.4		226.3	500.9	288.5		56.0	1.000051
4750.0	135.4	-61.7		223.1	506.5	291.3		56.9	1.000050
4800.0	132.1	-62.0		215.0	500.0	293.8		58.5	1.000049
4850.0	128.9	-62.6		213.5	505.3	295.7		61.3	1.000048
4900.0	125.8	-63.3		206.8	504.4	297.5		64.2	1.000046
4950.0	122.7	-64.0		200.3	503.5	293.7		64.3	1.000040
5000.0	119.7	-64.7		207.0	502.5	299.2		63.0	1.000045
5050.0	116.8	-65.4		195.8	501.0	301.0		61.7	1.000044
5100.0	113.9	-65.2		190.8	501.8	302.0		59.5	1.000042
5150.0	111.1	-65.0		185.9	502.1	303.1		57.3	1.000041
5200.0	108.4	-64.7		181.2	502.4	304.0		55.6	1.000040
5250.0	105.7	-64.3		175.4	503.0	304.5		55.0	1.000039
5300.0	103.2	-63.6		171.4	504.1	304.0		54.4	1.000038
5350.0	100.6	-62.6		165.5	505.3	305.1		52.1	1.000037
5400.0	98.2	-62.6		162.4	505.4	305.0		48.7	1.000036
5450.0	95.8	-62.8		158.6	503.1	300.2		45.2	1.000035
5500.0	93.5	-63.0		154.9	504.8	307.2		40.8	1.000034
5550.0	91.2	-63.2		151.3	504.3	308.0		36.0	1.000034
5600.0	89.0	-63.4		147.7	504.3	310.3		31.3	1.000033
5650.0	86.8	-63.6		144.3	504.0	311.4		28.6	1.000032
5700.0	84.7	-63.8		140.9	503.7	312.0		25.9	1.000031
5750.0	82.6	-64.0		137.6	503.4	313.9		23.4	1.000031
5800.0	80.6	-63.4		133.9	504.3	314.9		21.6	1.000030
5850.0	78.7	-62.8		130.2	505.3	315.0		19.8	1.000029
5900.0	76.8	-61.9		125.6	500.2	317.3		18.0	1.000028
5950.0	74.9	-62.7		124.0	505.2	319.4		15.8	1.000028
6000.0	73.1	-63.5		121.4	504.1	322.0		13.8	1.000027
6050.0	71.3	-64.2		118.9	503.1	324.5		12.2	1.000026
6100.0	69.5	-65.1		116.4	501.9	317.3		15.8	1.000026
6150.0	67.8	-66.2		114.2	500.4	312.9		19.5	1.000025
6200.0	66.1	-67.3		112.0	500.9	309.0		23.4	1.000025
6250.0	64.5	-67.7		109.4	500.4	300.9		29.8	1.000024
6300.0	62.9	-67.0		106.5	509.4	305.0		36.2	1.000024
6350.0	61.4	-66.2		103.3	500.4	303.7		42.6	1.000023

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

UPPER AIR DATA
0550030004
JALLER
TABLE 6 (cont)

STATION ALTITUDE 4051.00 FEET MSL
4 FEB. 60
ASCLP. SAUT. NO. 34

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GRAMS PER CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TR)	WIND SPEED KNOTS	INDEX OF REFRACTION
04000.0	59.9	-65.5		107.4	501.4	303.7	41.5	1.000022
04500.0	50.4	-65.1		97.8	501.9	303.9	39.6	1.000022
05000.0	50.9	-65.5		95.5	501.3	304.1	37.0	1.000021
05500.0	55.5	-66.0		93.4	500.8	304.4	31.6	1.000021
06000.0	54.2	-64.2		90.3	503.2	304.7	25.0	1.000020
06500.0	52.9	-62.2		87.3	505.9	305.3	18.2	1.000019
07000.0	51.6	-60.1		84.4	508.6	306.0	12.9	1.000019
07500.0	50.4	-58.1		81.6	511.3	310.1	9.1	1.000018
08000.0	49.2	-57.7		79.5	511.8	318.2	5.3	1.000018
08500.0	48.0	-58.0		77.7	511.5	339.6	3.1	1.000017
09000.0	46.9	-58.3		75.0	511.1	340.8	4.9	1.000017
09500.0	45.7	-53.5		74.2	510.7	341.2	6.7	1.000017
70000.0	44.6	-50.8		72.6	510.3	341.5	8.5	1.000016
70500.0	43.6	-59.1		70.9	510.0	340.9	10.4	1.000016
71000.0	42.5	-59.4		65.3	509.0	340.4	12.3	1.000015
71500.0	41.5	-53.4		67.7	509.5	340.1	14.2	1.000015
72000.0	40.6	-53.8		65.9	510.3	340.9	15.3	1.000015
72500.0	39.6	-58.2		64.2	511.1	342.9	15.5	1.000014
73000.0	38.7	-57.6		62.5	511.9	344.9	15.8	1.000014
73500.0	37.7	-57.0		60.8	512.7	340.7	16.0	1.000014
74000.0	36.9	-56.4		59.2	513.5	340.0	15.2	1.000013
74500.0	36.0	-55.8		57.7	514.3	334.1	14.7	1.000013
75000.0	35.1	-55.2		56.2	515.1	327.0	14.3	1.000013
75500.0	34.3	-55.5		54.9	515.0	317.3	12.8	1.000012
76000.0	33.5	-55.3		53.6	514.7	301.6	10.8	1.000012
76500.0	32.7	-55.3		52.4	514.4	281.3	9.9	1.000012
77000.0	31.9	-56.0		51.2	514.1	263.1	10.6	1.000011
77500.0	31.2	-56.2		50.1	513.9	253.7	14.2	1.000011
78000.0	30.5	-56.5		49.0	513.5	244.0	17.7	1.000011
78500.0	29.7	-56.5		47.8	513.4	234.3	21.2	1.000011
79000.0	29.0	-56.2		46.7	513.8	224.7	25.7	1.000010
79500.0	28.4	-56.0		45.5	514.1	214.2	30.4	1.000010
80000.0	27.7	-55.4		44.3	514.9	204.6	35.2	1.000010
80500.0	27.1	-54.7		43.2	515.9	204.0	30.1	1.000010
81000.0	26.4	-53.9		42.0	516.6	232.5	19.2	1.000009
81500.0	25.8	-53.2		40.9	517.7	300.7	8.8	1.000009
82000.0	25.2	-52.5		39.8	518.7			1.000009
82500.0	24.6	-51.8		38.6	519.6			1.000009
83000.0	24.1	-51.1		37.3	520.5			1.000008
83500.0	23.5	-50.4		36.0	521.5			1.000008

STATION ALTITUDE 4021.00 FEET MSL
 4 FEB. 50
 ASCENSION NO. 34

MANDATORY LEVELS
 0350030034
 JALLEN
 TABLE 7

GEODETTIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUMIDITY	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEW POINT DEGREES	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4953.	15.0	.1	36.	9999.0	9999.0XX
800.0	6676.	12.3	-3.4	33.	9999.0	9999.0XX
750.0	8390.	8.9	-6.7	32.	298.2	15.9
700.0	10250.	4.8	-10.1	33.	305.9	20.1
650.0	12217.	.5	-11.3	41.	308.3	31.5
600.0	14308.	-4.1	-16.2	39.	303.6	30.6
550.0	16543.	-8.0	-20.7	35.	301.4	45.8
500.0	18950.	-13.6	-24.8	38.	298.3	47.0
450.0	21546.	-20.0	-27.7	30.	298.2	46.4
400.0	24383.	-25.7	-37.6	31.	305.9	47.6
350.0	27505.	-34.1	-43.8	30.	297.4	44.7
300.0	30974.	-44.0	-49.5	34.	288.7	51.6
250.0	34900.	-54.2			295.1	59.3
200.0	39402.	-64.8			296.2	67.1
175.0	42161.	-62.2			287.2	61.4
150.0	45294.	-63.0			282.3	56.3
125.0	48992.	-63.4			297.8	64.9
100.0	53459.	-62.4			305.2	51.4
80.0	57970.	-63.1			315.1	41.1
70.0	60665.	-64.8			319.2	14.6
60.0	63725.	-65.6			303.7	41.6
50.0	67401.	-57.5			311.3	8.2
40.0	72000.	-58.5			341.9	15.4
30.0	77906.	-56.6			204.2	19.7
25.0	81321.	-52.2				

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

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