

AD-A082 976 ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/6 4/2  
197058 MLRS, MISSILE NUMBERS 331, 196, ROUND NUMBERS B-72, B-73--ETC(U)  
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JANUARY 1980

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METEOROLOGICAL DATA REPORT

19705B MLRS  
Missile Nos. 331, 196  
Round Nos. B-72, B-73  
11 January 1980

by

White Sands Meteorological Team

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 19705B MLRS, Missile Numbers 331, 196, Round Numbers B-72, B-73 are presented in tabular form.		

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## INTRODUCTION

19705B MLRS, Missile Numbers 331 and 196,  
Round Numbers B-72 and B-73, were launched from Snake Site,  
White Sands Missile Range (WSMR), New Mexico, at 1129:36 and 1129:40 MST,  
on 11 January 1980. The schedule launch times were 1100 and  
1100:04 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 SNAKE Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

#### b. Upper Air

(1) Low level wind data were obtained from RAPTIS T-9 pibal observation at:

### SITE AND ALTITUDE

**SNAKE 2Km**  
**DENVER 950m**

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 91,000 feet in 500-foot increments.

### SITE AND TIME

**JALLEN 1130 MST**

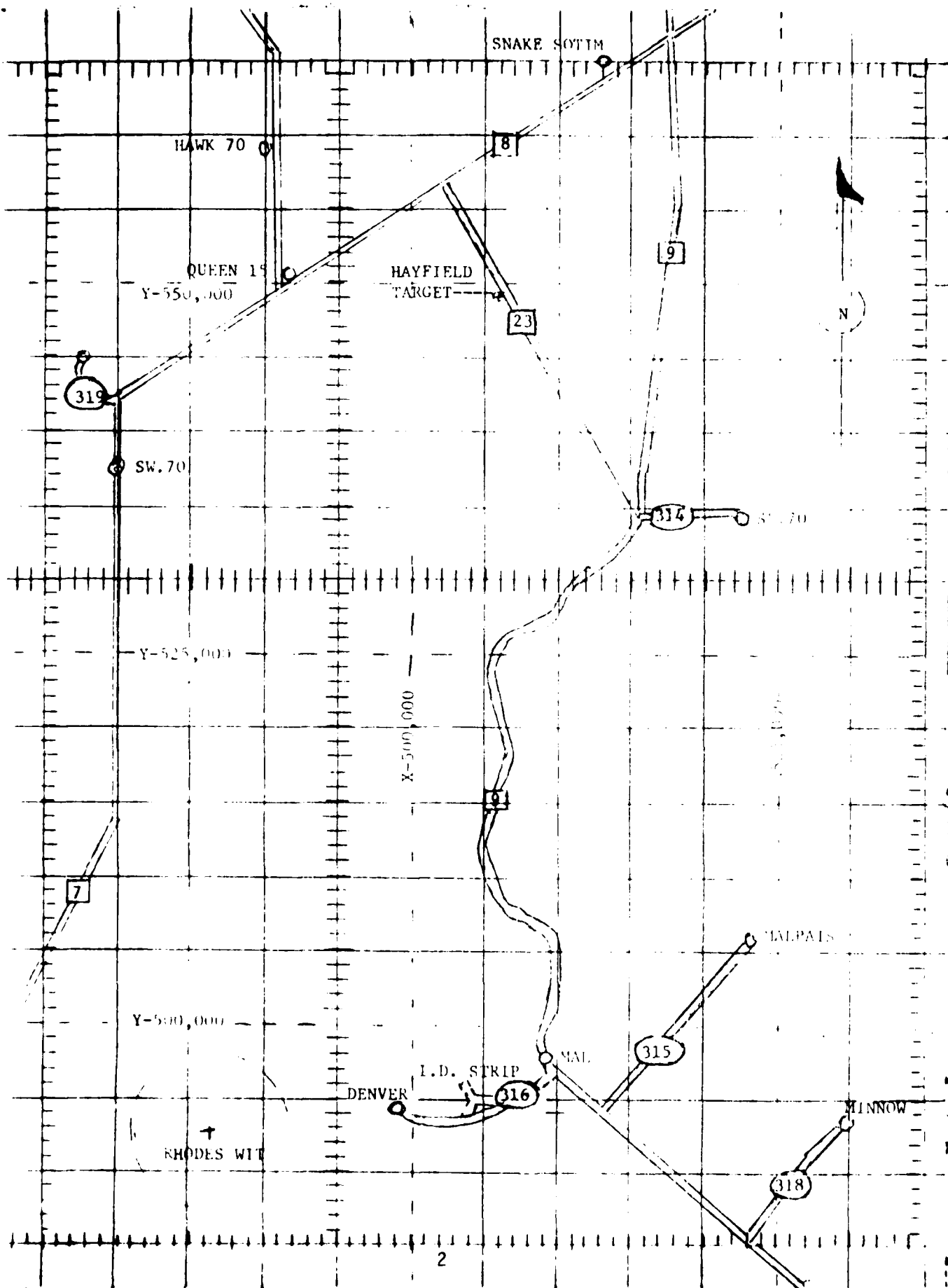


TABLE 1. Surface Observations taken at 1130 MST,  
 11 January 1980, at Snake Site,  
 19705B MLRS, Missile Numbers 331, 196,  
 Round Numbers B-72, B-73.

ELEVATION	4471.	FT/MSL
PRESSURE	867.8	MBS
TEMPERATURE	9.2	°C
RELATIVE HUMIDITY	76	%
DEW POINT	5.1	°C
DENSITY		GM/M <sup>3</sup>
WIND SPEED	04	KTS
WIND DIRECTION	180	DEGREES
CLOUD COVER	10	Ns







STATION ALTITUDE 4051.00 FEET MSL  
 11 JAN. 80 1130 HRS MST  
 ASCENSION NO. 8

SIGNIFICANT LEVEL DATA  
 0110030008  
 JALLEN  
 TABLE 5

GEODEIC COORDINATES  
 33.16712 LAT DEG  
 106.49511 LON DEG

PRESSURE GEOMETRIC ALTITUDE		TEMPERATURE		REL. HUM.
MILLIBARS	MSL FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT
880.8	4051.0	8.7	3.1	68.0
870.8	4360.6	7.1	1.8	69.0
850.0	5013.8	6.6	2.5	75.0
808.8	6349.9	4.4	1.9	84.0
770.0	7659.2	1.2	.3	94.0
700.0	10163.6	-2.9	-3.0	99.0
632.4	12793.5	-6.6	-6.7	99.0
598.2	14221.9	-7.1	-7.2	99.0
564.2	15717.7	-9.3	-9.4	99.0
500.0	18761.5	-14.6	-15.5	93.0
439.4	21949.1	-20.0	-23.3	75.0
410.4	23602.9	-23.9	-24.9	91.0
400.0	24218.3	-25.1	-27.8	78.0
383.0	25252.4	-27.3	-31.4	68.0
369.4	26105.2	-29.7	-32.7	75.0
337.0	28240.1	-34.2	-39.4	59.0
300.0	30880.7	-41.2	-45.0	66.0
282.4	32221.8	-45.1	-49.9	58.0
250.0	34858.8	-52.5		
200.0	39489.9	-63.6		
181.6	41437.1	-64.6		
172.8	42440.9	-63.0		
165.4	43338.1	-58.6		
156.4	44304.6	-55.8		
150.0	45379.4	-56.8		
140.8	46705.2	-55.7		
115.6	50764.3	-64.4		
106.0	52508.7	-65.4		
100.0	53672.0	-67.7		
96.6	54357.8	-68.3		
87.6	56311.6	-64.6		
70.0	60823.0	-65.6		
61.0	63606.2	-62.5		
55.8	65400.5	-65.6		
50.0	67606.6	-66.7		
46.2	69201.9	-62.5		
43.8	70285.1	-64.2		
41.4	71435.8	-60.2		
32.2	76583.5	-63.0		
30.0	78029.1	-61.5		

STATION ALTITUDE 4051.00 FEET MSL  
11 JAN. 60 1130 HRS MST  
ASCENSION NO. 8

SIGNIFICANT LEVEL DATA  
01100J0008  
JALLEN

GEODETIC COORDINATES  
33.16712 LAT DEG  
106.49511 LON DEG

TABLE 5 (CONT)

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES CENTIGRADE	DEWPOINT	
25.2 81627.8	-58.7		
20.6 85781.6	-62.3		
20.0 86389.7	-59.5		
15.8 91327.8	-54.7		

STATION ALTITUDE 4051.00 FEET MSL  
 11 JAN. 60 1130 HRS MST  
 ASCENSION NO. 8

UPPER AIR DATA  
 0110030008  
 JALLEN

GEODETIC COORDINATES  
 33.16712 LAT DEG  
 106.49511 LON DEG

TABLE 6

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE						
4051.0	880.8	8.7	3.1	68.0	1085.1	655.1	.0	2.7	1.000278
4500.0	866.3	7.0	2.0	70.3	1074.0	653.1	202.6	5.7	1.000273
5000.0	850.4	6.6	2.5	74.9	1055.5	652.7	202.6	8.7	1.000271
5500.0	834.8	5.8	2.3	78.3	1039.1	651.7	202.6	10.6	1.000267
6000.0	819.4	5.0	2.1	81.6	1023.0	650.8	203.0	10.3	1.000263
6500.0	804.3	4.0	1.8	85.1	1007.5	649.7	204.3	10.6	1.000259
7000.0	789.3	2.8	1.2	89.0	993.2	648.2	203.4	11.3	1.000254
7500.0	774.6	1.6	.6	92.8	979.2	646.7	201.4	11.1	1.000250
8000.0	760.1	.6	-.1	94.7	964.2	645.6	201.9	10.2	1.000245
8500.0	745.8	-.2	-.8	95.7	948.9	644.6	203.8	7.6	1.000241
9000.0	731.7	-1.0	-1.5	96.7	933.9	643.6	211.5	5.7	1.000236
9500.0	717.9	-1.8	-2.1	97.7	919.2	642.6	238.2	6.2	1.000232
10000.0	704.4	-2.6	-2.8	98.7	904.7	641.6	272.5	8.3	1.000227
10500.0	691.0	-3.4	-3.5	99.0	889.9	640.7	284.7	9.7	1.000223
11000.0	677.8	-4.1	-4.2	99.0	875.3	639.8	283.0	10.7	1.000218
11500.0	664.8	-4.8	-4.9	99.0	860.9	639.0	276.6	12.3	1.000214
12000.0	652.1	-5.5	-5.6	99.0	846.7	638.1	293.8	14.4	1.000210
12500.0	639.6	-6.2	-6.3	99.0	832.8	637.2	265.2	17.6	1.000206
13000.0	627.3	-6.7	-6.8	99.0	818.3	636.7	263.3	21.7	1.000202
13500.0	615.2	-6.8	-7.0	99.0	803.0	636.5	261.3	26.6	1.000198
14000.0	603.4	-7.0	-7.2	99.0	788.1	636.2	259.4	29.4	1.000195
14500.0	591.7	-7.5	-7.6	99.0	774.3	635.7	258.9	30.4	1.000191
15000.0	580.3	-8.2	-8.4	99.0	761.5	634.7	258.8	31.1	1.000187
15500.0	569.0	-9.0	-9.1	99.0	748.9	633.8	259.3	32.4	1.000183
16000.0	557.9	-9.8	-10.0	98.4	736.6	632.8	259.2	35.8	1.000180
16500.0	547.0	-10.7	-11.0	97.5	724.6	631.8	259.2	40.3	1.000176
17000.0	536.2	-11.5	-12.0	96.5	712.8	630.7	261.0	41.0	1.000172
17500.0	525.7	-12.4	-13.0	95.5	701.2	629.6	262.5	40.9	1.000169
18000.0	515.3	-13.3	-14.0	94.5	689.8	628.5	263.6	38.1	1.000165
18500.0	505.2	-14.1	-15.0	93.5	678.5	627.4	265.5	36.2	1.000162
19000.0	495.2	-15.0	-16.1	91.7	667.4	626.3	267.3	34.7	1.000159
19500.0	485.3	-15.9	-17.3	88.8	656.2	625.3	269.2	36.0	1.000155
20000.0	475.5	-16.7	-18.5	86.0	645.2	624.2	270.8	41.4	1.000152
20500.0	466.0	-17.5	-19.7	83.2	634.4	623.2	270.6	44.2	1.000149
21000.0	456.6	-18.4	-20.9	80.4	623.8	622.1	269.0	44.2	1.000146
21500.0	447.5	-19.2	-22.2	77.5	613.4	621.0	264.6	41.4	1.000143
22000.0	438.5	-20.1	-23.3	75.5	603.2	619.9	260.6	38.6	1.000140
22500.0	429.5	-21.3	-23.8	80.3	593.7	618.5	257.3	41.4	1.000138
23000.0	420.7	-22.5	-24.3	85.2	584.3	617.0	256.0	44.2	1.000135
23500.0	412.1	-23.7	-24.8	90.0	575.1	615.6	256.1	44.2	1.000133

UPPER AIR DATA  
 0110030008  
 JALLEN

STATION ALTITUDE 4051.00 FEET MSL  
 11 JAN. 80 1130 HRS MST  
 ASCENSION NO. 8

GEODETIC COORDINATES  
 33.16712 LAT DEG  
 106.49511 LON DEG

TABLE 6 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	TEMPERATURE DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
24000.0	403.7	-24.7	-26.8	82.6	565.6	614.3	256.0	45.5	1.000130
24500.0	395.3	-25.7	-28.8	75.3	556.2	613.0	250.0	46.8	1.000127
25000.0	387.1	-26.8	-30.5	70.4	547.0	611.7	255.5	48.1	1.000125
25500.0	379.0	-28.0	-31.7	70.0	538.3	610.1	254.7	49.3	1.000123
26000.0	371.1	-29.4	-32.5	74.1	530.1	608.3	252.4	50.8	1.000121
26500.0	363.2	-30.5	-33.9	72.0	521.3	606.9	250.5	52.5	1.000118
27000.0	355.5	-31.6	-35.5	68.3	512.5	605.6	249.2	54.5	1.000116
27500.0	347.9	-32.6	-37.0	64.5	503.8	604.3	248.1	56.9	1.000114
28000.0	340.5	-33.7	-38.6	60.8	495.2	602.9	247.3	59.7	1.000112
28500.0	333.2	-34.9	-39.9	59.7	487.0	601.4	246.2	62.1	1.000110
29000.0	325.9	-36.2	-41.0	61.0	479.1	599.7	244.8	63.6	1.000108
29500.0	318.8	-37.5	-42.0	62.3	471.3	598.0	243.7	64.6	1.000106
30000.0	311.9	-38.9	-43.1	63.7	463.6	596.4	243.3	64.8	1.000104
30500.0	305.1	-40.2	-44.2	65.0	456.1	594.7	243.1	65.1	1.000102
31000.0	298.4	-41.5	-45.5	65.3	448.8	592.9	243.5	65.8	1.000101
31500.0	291.7	-43.0	-47.3	62.3	441.5	591.2	243.9	66.3	1.000099
32000.0	285.2	-44.5	-49.1	59.3	434.5	589.2	243.6	65.6	1.000097
32500.0	278.8	-45.9	-51.6	51.9**	427.3	587.3	243.2	64.9	1.000096
33000.0	272.4	-47.3	-54.9	40.9**	420.2	585.5	243.4	65.7	1.000094
33500.0	266.2	-48.7	-58.6	29.9**	413.1	583.7	243.6	67.0	1.000092
34000.0	260.1	-50.1	-63.3	18.9**	406.2	581.8	243.8	69.1	1.000091
34500.0	254.2	-51.5	-70.7	7.9**	399.5	580.0	243.8	72.5	1.000089
35000.0	248.3	-52.8			392.8	578.2	243.8	75.8	1.000087
35500.0	242.4	-54.0			385.4	576.7	242.5	78.6	1.000086
36000.0	236.6	-55.2			378.3	575.1	241.3	81.3	1.000084
36500.0	231.0	-56.4			371.3	573.5	240.4	84.5	1.000083
37000.0	225.5	-57.6			364.5	571.9	239.7	87.9	1.000081
37500.0	220.1	-58.8			357.8	570.3	239.3	90.8	1.000080
38000.0	214.9	-60.0			351.2	568.7	239.9	91.9	1.000078
38500.0	209.8	-61.2			344.8	567.1	240.4	92.9	1.000077
39000.0	204.8	-62.4			338.5	565.5	242.1	90.4	1.000075
39500.0	199.9	-63.6			332.3	563.9	244.2	87.0	1.000074
40000.0	195.0	-63.9			324.6	563.6	240.7	84.3	1.000072
40500.0	190.2	-64.1			317.0	563.3	250.0	83.2	1.000071
41000.0	185.6	-64.4			309.7	562.9	253.4	82.5	1.000069
41500.0	181.0	-64.5			302.3	562.7	256.1	86.1	1.000067
42000.0	176.6	-65.7			293.7	563.8	258.5	90.3	1.000065
42500.0	172.3	-62.7			285.2	565.1	260.7	91.5	1.000064
43000.0	168.2	-60.3			275.2	568.4	263.1	90.2	1.000061
43500.0	164.1	-58.2			266.0	571.2	265.3	88.0	1.000059

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

UPPER AIR DATA  
0110030008  
JALLEN

STATION ALTITUDE 4051.00 FEET MSL  
11 JAN. 60  
ASCENSION NO. 8

GEODETIC COORDINATES  
33.16712 LAT DEG  
106.49511 LON DEG

TABLE 6 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	TEMPERATURE DEWPOINT CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
4400.0	160.2	-57.0	-27.0	82.6	258.5	572.7	288.8	81.5	1.000058
4450.0	158.2	-55.4	-27.0	75.3	257.7	574.4	288.5	75.2	1.000056
4500.0	156.4	-53.8	-30.5	70.0	245.9	573.6	287.0	71.4	1.000055
4550.0	154.7	-52.2	-31.7	70.1	240.0	573.2	264.9	87.9	1.000053
4600.0	153.0	-50.6	-33.5	72.0	233.4	572.7	262.4	88.2	1.000052
4650.0	151.4	-49.0	-35.0	69.5	228.0	572.3	259.9	65.8	1.000051
4700.0	149.8	-47.4	-36.5	69.5	223.0	573.6	258.5	65.0	1.000050
4750.0	148.2	-45.8	-38.0	69.0	218.7	572.2	258.5	67.1	1.000049
4800.0	146.6	-44.2	-39.0	69.7	214.6	570.8	259.2	70.4	1.000047
4850.0	145.0	-42.6	-41.0	61.0	210.4	569.4	263.2	73.4	1.000046
4900.0	143.4	-41.0	-42.0	62.5	206.4	567.9	263.2	74.9	1.000045
4950.0	141.8	-39.4	-43.1	65.7	202.0	566.9	263.2	78.0	1.000044
5000.0	140.2	-37.8	-44.2	65.0	198.0	565.1	268.4	77.0	1.000043
5100.0	134.5	-34.5	-45.5	65.5	190.0	562.7	269.6	76.1	1.000042
5150.0	132.9	-32.9	-47.1	62.5	188.4	562.9	270.7	74.9	1.000041
5200.0	131.3	-31.3	-48.1	61.0	182.0	561.9	272.1	73.8	1.000041
5250.0	129.7	-29.7	-49.0	60.0	177.8	561.5	274.5	72.8	1.000040
5300.0	128.1	-28.1	-50.0	60.0	174.2	561.2	276.0	72.0	1.000039
5350.0	126.5	-26.5	-51.0	60.0	170.7	559.4	280.0	71.4	1.000038
5400.0	124.9	-24.9	-52.5	60.0	167.0	558.0	285.9	70.4	1.000037
5450.0	123.3	-23.3	-54.0	7.0	162.9	558.0	288.5	68.5	1.000036
5500.0	121.7	-21.7	-55.5	65.0	158.1	559.2	290.2	65.0	1.000035
5550.0	120.1	-20.1	-57.0	62.5	153.9	560.3	293.5	61.6	1.000034
5600.0	118.5	-18.5	-58.5	62.5	149.0	561.6	294.6	57.0	1.000033
5650.0	116.9	-16.9	-60.0	64.0	145.0	562.9	298.2	52.5	1.000032
5700.0	115.3	-15.3	-61.5	64.0	141.5	562.4	295.3	49.8	1.000032
5800.0	109.7	-9.7	-64.0	62.5	134.8	562.1	293.9	47.7	1.000031
5850.0	108.1	-8.1	-65.5	62.5	131.5	561.9	292.4	45.9	1.000030
5900.0	106.5	-6.5	-67.0	62.5	128.4	561.8	291.4	44.9	1.000029
5950.0	104.9	-4.9	-68.5	62.5	125.3	561.6	290.6	43.7	1.000028
6000.0	103.3	-3.3	-70.0	62.5	122.3	561.5	289.2	41.7	1.000027
6100.0	97.7	2.3	-69.0	62.5	119.4	561.3	287.8	39.7	1.000026
6150.0	96.1	3.9	-68.5	62.5	116.4	561.3	284.5	37.2	1.000025
6200.0	94.5	5.5	-68.0	62.5	113.2	562.3	280.1	34.6	1.000025
6250.0	92.9	7.1	-67.5	62.5	110.2	563.0	275.8	32.5	1.000024
6300.0	91.3	8.7	-67.0	62.5	107.2	563.8	273.7	31.0	1.000024
6350.0	89.7	10.3	-66.5	62.5	104.5	564.9	271.7	29.5	1.000023
6400.0	88.1	11.9	-66.0	62.5	101.5	565.5	277.4	27.5	1.000023

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UPPER AIR DATA  
 0110030000  
 JALLEN  
 TABLE 6 (CONT)

STATION ALTITUDE 4051.00 FEET MSL  
 11 JAN. 80  
 ASCENSION NO. 8

GEODETIC COORDINATES  
 33.16712 LAT DEG  
 106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup> MLTER	SPEED SOUND KNOTS	WIND DIRECTION DEGREES (STAT)	SPEED KNOTS	INDEX OF REFRACTION
64000.0	59.8	-63.2		99.3	504.5	280.4	32.6	1.000022
64500.0	58.4	-64.0		97.2	503.4	283.1	33.8	1.000022
65000.0	56.9	-64.9		95.2	502.2	283.9	34.4	1.000021
65500.0	55.3	-65.6		93.3	501.2	284.6	36.0	1.000021
66000.0	54.2	-65.9		91.1	500.9	284.0	37.1	1.000020
66500.0	52.8	-66.1		88.9	500.5	283.6	38.2	1.000020
67000.0	51.3	-66.4		86.6	500.2	282.7	39.3	1.000019
67500.0	50.3	-66.6		84.8	509.3	281.6	39.6	1.000019
68000.0	49.0	-65.7		82.3	501.2	280.8	39.7	1.000018
68500.0	47.8	-64.3		79.8	502.9	283.0	39.6	1.000018
69000.0	46.7	-63.0		77.4	504.7	279.6	39.3	1.000017
69500.0	45.3	-63.0		75.5	504.8	279.2	38.9	1.000017
70000.0	44.4	-63.8		73.9	503.7	275.9	38.3	1.000016
70500.0	43.3	-63.5		72.0	504.1	278.7	37.7	1.000016
71000.0	42.3	-61.7		69.7	506.5	273.4	37.1	1.000016
71500.0	41.3	-60.2		67.3	508.1	279.0	35.1	1.000015
72000.0	40.3	-60.5		65.0	509.1	280.6	33.6	1.000015
72500.0	39.3	-60.8		64.3	507.7	282.5	30.5	1.000014
73000.0	38.4	-61.1		63.0	507.4	284.8	28.2	1.000014
73500.0	37.4	-61.3		61.8	507.6	287.6	26.7	1.000014
74000.0	36.3	-61.6		60.2	508.0	290.9	25.2	1.000013
74500.0	35.6	-61.7		58.8	508.3	294.3	24.0	1.000013
75000.0	34.8	-62.1		57.4	505.9	292.1	26.4	1.000013
75500.0	33.9	-62.4		56.1	505.3	290.4	28.3	1.000012
76000.0	33.1	-62.7		54.8	505.2	288.9	31.4	1.000012
76500.0	32.3	-63.0		53.6	504.0	288.4	34.6	1.000012
77000.0	31.6	-62.6		52.2	505.3	284.0	36.7	1.000012
77500.0	30.8	-62.1		50.8	506.0	281.3	39.5	1.000011
78000.0	30.0	-61.7		49.5	508.7	280.1	41.5	1.000011
78500.0	29.3	-61.1		48.2	507.3	278.3	40.9	1.000011
79000.0	28.6	-60.7		46.9	507.8	278.4	40.4	1.000010
79500.0	27.9	-60.4		45.7	506.3	274.3	39.9	1.000010
80000.0	27.3	-60.0		44.6	506.8	272.4	38.7	1.000010
80500.0	26.6	-59.6		43.4	509.3	270.0	36.7	1.000010
81000.0	26.0	-59.2		42.3	509.9	267.3	34.8	1.000009
81500.0	25.4	-58.8		41.2	570.4	264.4	33.8	1.000009
82000.0	24.7	-57.0		40.3	570.1	261.4	32.0	1.000009
82500.0	24.2	-56.5		39.4	567.5	258.5	31.5	1.000009
83000.0	23.6	-56.9		38.5	568.9	257.5	31.0	1.000009
83500.0	23.0	-60.3		37.7	568.3	254.4	30.6	1.000008

STATION ALTITUDE 4051.00 FEET MSL  
 11 JAN. 60 1130 PMS MST  
 ASCENSION NO. 0

UPPER AIR DATA  
 0110030008  
 JALLEN

GEODETIC COORDINATES  
 33.16712 LAT DEG  
 106.49511 LONG DEG

TABLE 6 (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	
84000.0	22.5	-60.8		36.8	567.8	251.9	32.9	1.000008
84500.0	21.9	-61.2		36.0	567.2	251.7	35.4	1.000008
85000.0	21.4	-61.6		35.2	566.6	251.5	37.9	1.000008
85500.0	20.9	-62.1		34.5	566.0	251.7	40.5	1.000008
86000.0	20.4	-61.3		33.5	567.0	253.5	43.1	1.000007
86500.0	19.9	-59.4		32.4	569.6	255.1	45.7	1.000007
87000.0	19.4	-58.9		31.6	570.2	250.5	48.3	1.000007
87500.0	19.0	-58.4		30.8	570.9			1.000007
88000.0	18.5	-57.9		30.0	571.5			1.000007
88500.0	18.1	-57.4		29.2	572.2			1.000006
89000.0	17.7	-57.0		28.5	572.8			1.000006
89500.0	17.2	-56.5		27.7	573.5			1.000006
90000.0	16.8	-56.0		27.0	574.1			1.000006
90500.0	16.4	-55.5		26.3	574.7			1.000006
91000.0	16.0	-55.0		25.6	575.4			1.000006

STATION ALTITUDE 4051.00 FEET MSL  
 11 JAN. 80  
 ASCENSION NO. 8

MANDATORY LEVELS  
 01100J0008  
 JALLEN

GEODETIC COORDINATES  
 33.16712 LAT DEG  
 106.49511 LON DEG

TABLE 7

PRESSURE EQUIVALENTIAL		TEMPERATURE		REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT DEGREES	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5010.	6.6	2.5	75.	202.6	5.8
800.0	6638.	3.7	1.6	86.	204.7	10.2
750.0	8348.	.1	-6	95.	202.4	10.9
700.0	10154.	-2.9	-3.0	99.	277.1	6.9
650.0	12074.	-5.6	-5.7	95.	268.8	12.6
600.0	14129.	-7.1	-7.2	99.	259.2	27.4
550.0	16345.	-10.4	-10.7	98.	259.0	31.8
500.0	18737.	-14.6	-15.5	95.	260.4	41.1
450.0	21335.	-19.0	-21.8	78.	265.9	35.1
400.0	24180.	-25.1	-27.8	76.	266.0	40.1
350.0	27317.	-32.3	-36.6	68.	243.4	55.0
300.0	30822.	-41.2	-45.0	60.	243.4	65.6
250.0	34786.	-52.5			243.8	74.7
200.0	39398.	-63.6			244.0	87.2
175.0	42091.	-63.4			259.2	91.7
150.0	45261.	-56.8			265.5	88.9
125.0	49038.	-61.0			263.8	74.1
100.0	53511.	-67.7			281.1	71.1
80.0	57953.	-65.0			292.3	45.8
70.0	60620.	-65.6			286.1	58.3
60.0	63719.	-63.1			279.9	32.4
50.0	67359.	-66.7			281.6	59.6
40.0	71864.	-60.6			281.0	32.4
30.0	77704.	-61.5			280.2	41.5
25.0	81435.	-58.8			262.8	32.4
20.0	85906.	-59.5			254.6	44.9

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