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ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2
14819AT LANCE. MISSILE NUMBER 4243, ROUND NUMBER 361-APT. 19 FE--ETC(U)
FEB 81

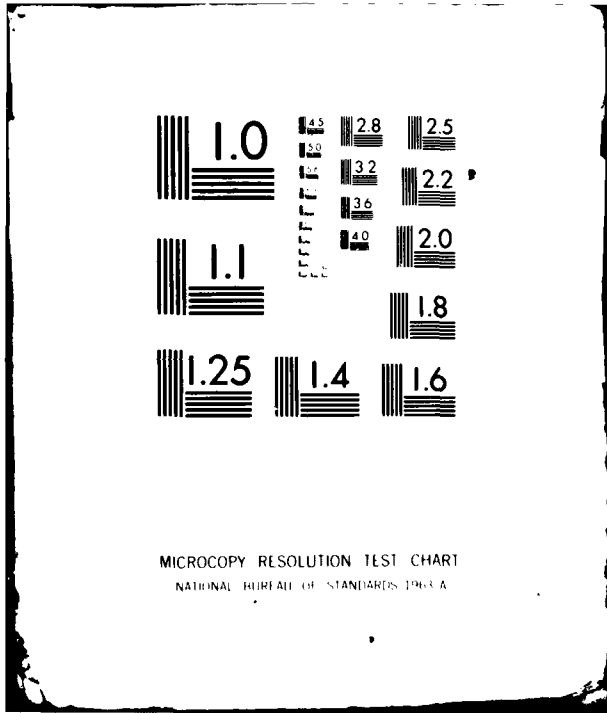
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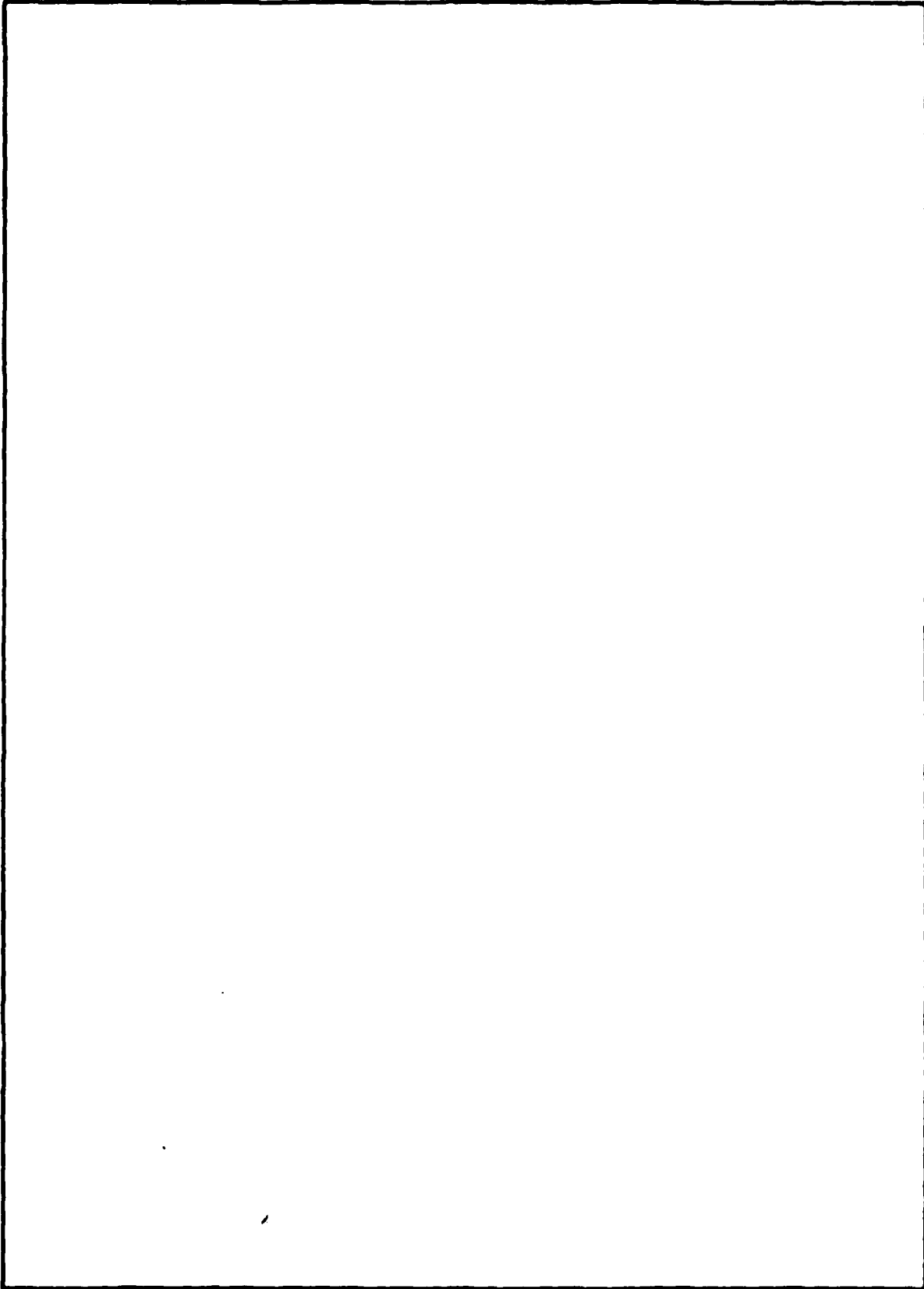
AD A 098 569



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 14819AT LANCE, Missile Number 4243, Round Number 361-APT, presented in tabular form.		

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SECURITY CLASSIFICATION OF THIS PAGE(When Data Entered)



SECURITY CLASSIFICATION OF THIS PAGE(When Data Entered)

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INTRODUCTION

14819AT LANCE, Missile Number 4243, Round Number 361-APT,
was launched from LC-39, White Sands Missile Range (WSMR), New
Mexico, at 1100 MST on 19 FEB 1981. The scheduled launch time
was 1100 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 LC-39 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 Single Theodolite observation at:

SITE AND ALTITUDE

LC-39 2760 Meters

(b) Air structure data (rawinsonde) were collected at the following met sites. Data were collected from surface to as high as possible in 500-foot increments.

SITE AND TIME

WSD	1050 MST
SMR	1000 MST
HMN	1050 MST

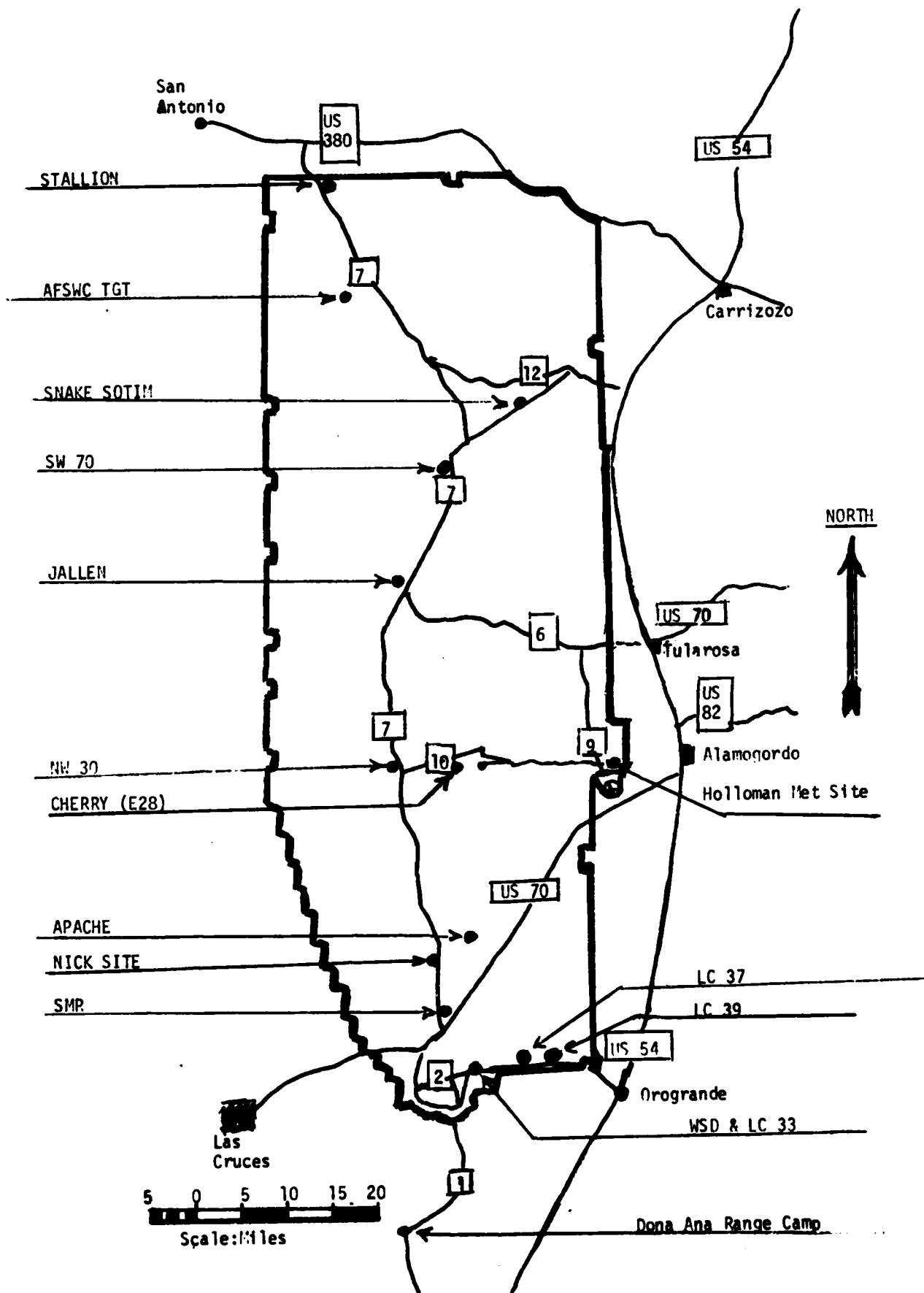


TABLE 1. Surface Observation taken at 1100 MST,
 19 February 1981, at LC-39, 14819AT LANCE,
 Missile Number 4243, Round Number 361-APT.

ELEVATION	4063.75	FT/MSL
PRESSURE	885.2	MBS
TEMPERATURE	70.0 °F	
RELATIVE HUMIDITY	22	%
DEW POINT	29.6 °F	
DENSITY	1044	GM/M ³
WIND SPEED	00	KTS
WIND DIRECTION	000	DEGREES
CLOUD COVER	CLEAR	

STATION ALTITUDE 3989.00 FEET MSL
 19 FEB. 01 1050 HRS MST
 ASCLNSION NO. 113

SIGNIFICANT LEVEL DATA
 0500020113
 WHITE SANDS
 TABLE 4

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LOH DEG

PRESSURE GEOMET. IC MILLIBARS	ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
687.3	3989.0	15.8	-3.1	27.0
881.8	4162.0	15.1	-0.6	34.0
861.2	4816.9	13.3	-2.6	33.0
850.0	5179.5	14.9	-0.8	34.0
840.4	5495.1	15.1	-1.0	33.0
769.4	7927.2	10.1	-5.4	33.0
700.0	10496.2	7.4	-9.9	28.0
654.6	12297.3	3.6	-12.7	29.0
627.2	13435.0	2.2	-14.4	28.0
600.6	14580.1	-0.2	-16.5	28.0
500.0	19280.6	-14.0	-28.1	29.0
482.2	20181.9	-16.3	-30.1	29.0
450.8	21836.6	-20.0	-33.0	30.0
413.0	23947.3	-26.2	-38.2	31.0
400.0	24705.6	-28.1	-39.9	31.0
327.4	29327.2	-39.5	-50.1	31.0
300.0	31274.5	-44.7		
277.2	33000.4	-48.8		
261.3	34270.7	-51.6		
257.4	34592.1	-51.5		
250.0	35213.7	-53.0		
231.6	36825.0	-56.4		
215.8	38302.8	-56.4		
205.6	39311.0	-58.4		
200.0	39885.6	-56.7		
191.2	40823.3	-57.0		
172.8	42909.2	-61.4		
163.8	43999.1	-62.0		
159.8	44502.7	-61.6		
150.0	45792.2	-62.7		
144.6	46536.2	-63.3		
141.0	47048.9	-61.9		
135.4	47873.1	-63.3		
130.0	48702.0	-61.3		
113.6	51435.2	-65.4		
108.6	52340.5	-64.6		
105.5	52928.4	-61.6		
100.0	54021.9	-62.0		
82.6	57834.0	-71.7		
77.0	59200.4	-72.0		

STATION ALTITUDE 3989.00 FEET MSL
19 FEB. 81 1050 HRS MST
ASCENSION. NO. 113

SIGNIFICANT LEVEL DATA

0500020113
WHITE SANDS

TABLE 4 cont'

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

PRESSURE MILLIBARS	GEOMET. IC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
70.0	61082.9	-65.8		
64.2	62820.9	-65.0		
54.4	66141.1	-66.9		
50.0	67847.7	-61.2		
30.0	78493.9	-54.6		
20.0	87142.7	-51.5		
18.8	88463.4	-52.5		
12.8	96788.7	-47.6		
11.0	100143.8	-42.5		

UPPER AIR DATA
 0500020113
 WHITE SANDS
 TABLE 5

STATION ALTITUDE 3989.00 FEET MSL
 10 FEB. 81 1050 HRS MST
 ASCENSION NO. 113

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GRAMS/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (IN)	SPEED KNOTS	
3989.0	887.3	15.8	27.0	1067.5	662.9	360.0	4.1	1.000260
4000.0	880.9	15.8	27.4	1067.3	662.9	359.9	4.1	1.000260
4500.0	871.1	14.2	33.5	1053.7	661.1	354.0	4.7	1.000260
5000.0	855.5	14.1	33.5	1035.0	661.1	349.6	5.4	1.000255
5500.0	840.3	15.1	33.0	1012.9	662.3	346.1	6.1	1.000252
6000.0	825.1	14.1	33.0	998.4	661.0	338.1	6.3	1.000247
6500.0	810.3	13.0	33.0	984.1	659.8	320.1	5.9	1.000242
7000.0	795.7	12.0	33.0	970.0	658.6	317.9	5.8	1.000238
7500.0	781.4	11.0	33.0	956.1	657.4	325.8	5.8	1.000233
8000.0	767.3	10.0	32.9	942.1	656.2	341.5	4.7	1.000229
8500.0	753.4	9.5	31.9	926.8	655.6	6.7	3.6	1.000224
9000.0	739.6	9.0	30.9	911.6	654.9	81.0	1.9	1.000220
9500.0	725.1	8.4	29.9	896.8	654.3	126.5	3.6	1.000216
10000.0	712.9	7.9	29.0	882.1	653.7	137.6	5.1	1.000211
10500.0	699.9	7.4	28.0	867.8	653.0	137.5	5.3	1.000207
11000.0	687.0	6.3	28.3	855.0	651.8	133.0	5.0	1.000204
11500.0	674.3	5.3	28.6	842.5	650.5	108.1	4.1	1.000200
12000.0	661.9	4.2	28.8	830.1	649.3	83.2	4.0	1.000197
12500.0	649.6	3.4	28.8	817.4	648.2	64.1	4.3	1.000193
13000.0	637.5	2.7	28.4	804.0	647.5	64.3	5.0	1.000190
13500.0	625.7	2.1	28.0	791.0	646.7	68.2	5.7	1.000186
14000.0	613.9	1.0	28.0	779.2	645.4	69.9	5.8	1.000183
14500.0	602.4	-0.0	28.0	767.6	644.2	76.0	5.8	1.000180
15000.0	590.8	-1.4	28.1	756.8	642.5	94.1	5.7	1.000177
15500.0	579.4	-2.9	28.2	746.2	640.7	108.8	7.1	1.000173
16000.0	568.2	-4.4	28.3	735.9	639.0	116.7	9.4	1.000170
16500.0	557.3	-5.8	28.4	725.7	637.2	123.1	11.4	1.000168
17000.0	546.5	-7.3	28.5	715.7	635.4	127.7	13.4	1.000165
17500.0	536.0	-8.8	28.6	705.8	633.6	126.4	13.6	1.000162
18000.0	525.6	-10.2	28.7	696.0	631.9	124.1	13.3	1.000159
18500.0	515.5	-11.7	28.8	686.5	630.1	118.1	11.7	1.000157
19000.0	505.5	-13.2	28.9	677.1	628.3	103.4	10.2	1.000154
19500.0	495.6	-14.6	29.0	667.4	626.6	80.3	9.7	1.000152
20000.0	485.7	-15.8	29.0	657.4	625.0	68.8	10.9	1.000149
20500.0	475.0	-17.0	29.2	647.1	623.6	61.7	12.2	1.000147
21000.0	465.4	-18.1	29.5	636.9	622.2	58.0	12.9	1.000144
21500.0	457.0	-19.2	29.8	626.8	620.9	52.1	14.2	1.000142
22000.0	447.8	-20.5	30.1	617.1	619.4	44.8	16.2	1.000140
22500.0	438.6	-21.9	30.3	608.0	617.5	42.7	16.2	1.000137
23000.0	429.6	-23.4	30.6	599.1	615.7	43.8	16.0	1.000135

STATION ALTITUDE 3989.00 FFET MSL
 19 FEB. 81
 ASCENSION NO. 113

UPPER AIR DATA
 0500020113
 WHITE SANDS

0500020113
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT UEG
 106.37033 LON DEG

TABLE 5 cont'

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CURIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT DEGREES				DIRECTION DEGREES(TN)	SPEED KNOTS	
23500.0	420.7	-24.9	-37.1	30.8	590.2	613.9	52.5	15.3	1.000133
24000.0	412.1	-26.3	-38.3	31.0	581.5	612.1	61.4	14.7	1.000131
24500.0	403.5	-27.6	-39.4	31.0	572.3	610.5	70.4	14.4	1.000129
25000.0	394.9	-28.8	-40.5	31.0	563.0	609.0	74.0	13.8	1.000127
25500.0	386.5	-30.1	-41.6	31.0	553.7	607.5	75.2	13.7	1.000124
26000.0	378.2	-31.3	-42.7	31.0	544.6	605.9	68.7	16.9	1.000122
26500.0	370.1	-32.5	-43.8	31.0	535.7	604.4	62.6	18.5	1.000120
27000.0	362.1	-33.8	-44.9	31.0	526.9	602.8	54.0	17.9	1.000118
27500.0	354.4	-35.0	-46.1	31.0	518.3	601.2	45.4	16.6	1.000116
28000.0	346.8	-36.2	-47.2	31.0	509.9	599.7	35.3	14.9	1.000114
28500.0	339.3	-37.5	-48.3	31.0	501.5	598.1	31.1	15.3	1.000112
29000.0	332.1	-38.7	-49.4	31.0	493.4	596.5	29.3	16.3	1.000110
29500.0	324.9	-40.0	-51.3	28.2**	485.3	594.9	27.6	16.5	1.000108
30000.0	317.7	-41.3	-55.2	20.3**	477.3	593.2	25.9	16.9	1.000107
30500.0	310.6	-42.6	-60.2	12.3**	469.4	591.5	24.0	17.7	1.000105
31000.0	303.7	-44.0	-68.8	4.4**	461.7	589.8	20.5	18.4	1.000103
31500.0	296.9	-45.2			453.8	588.1	15.1	19.2	1.000101
32000.0	290.2	-46.4			445.9	586.6	10.9	20.2	1.000099
32500.0	283.6	-47.6			438.1	585.1	7.5	21.4	1.000098
33000.0	277.2	-48.8			430.4	583.5	4.2	21.4	1.000096
33500.0	270.8	-49.9			422.6	582.1	.1	20.8	1.000094
34000.0	264.6	-51.0			415.0	580.7	352.2	18.1	1.000092
34500.0	258.5	-51.5			406.4	580.0	344.0	16.0	1.000091
35000.0	252.5	-52.5			398.7	578.7	338.2	14.3	1.000089
35500.0	246.6	-53.6			391.3	577.2	333.3	13.2	1.000087
36000.0	240.8	-54.7			384.0	575.9	330.4	12.7	1.000086
36500.0	235.2	-55.7			376.8	574.5	328.6	12.1	1.000084
37000.0	229.7	-56.4			369.1	573.6	327.9	11.3	1.000082
37500.0	224.2	-56.4			360.4	573.6	329.3	11.3	1.000080
38000.0	218.9	-56.4			351.9	573.6	332.2	11.8	1.000078
38500.0	213.8	-56.8			344.2	573.0	333.0	12.0	1.000077
39000.0	208.7	-57.8			337.6	571.7	332.6	11.9	1.000075
39500.0	203.7	-57.8			329.6	571.6	319.2	10.5	1.000073
40000.0	198.9	-56.8			320.3	573.0	294.2	9.7	1.000071
40500.0	194.2	-57.4			313.6	572.2	260.8	12.8	1.000070
41000.0	189.6	-58.1			307.1	571.3	242.8	19.2	1.000068
41500.0	185.0	-59.0			300.9	570.1	239.3	25.1	1.000067
42000.0	180.6	-59.8			294.9	569.0	230.6	30.7	1.000066
42500.0	176.3	-60.7			289.0	567.8	235.3	30.4	1.000064
43000.0	172.0	-61.5			283.2	566.7	255.0	29.0	1.000063

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

STATION ALTITUDE 3989.00 FEET MSL
 19 FEB. 81 1050 HRS MST
 ASCLNSION NO. 113

UPPER AIR DATA
 0500020113
 WHITE SANDS
 TABLE 5 cont'

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INJEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
43500.0	167.9	-62.2			277.2	565.9	265.6	27.4	1.000062
44000.0	163.8	-62.8			271.3	565.0	277.2	26.6	1.000060
44500.0	159.8	-61.6			263.2	566.6	284.7	27.0	1.000059
45000.0	155.9	-62.0			257.3	566.1	288.5	27.8	1.000057
45500.0	152.2	-62.5			251.6	565.5	292.5	28.6	1.000056
46000.0	148.5	-62.9			246.0	564.9	297.0	29.1	1.000055
46500.0	144.9	-63.3			240.4	564.4	300.9	30.5	1.000054
47000.0	141.3	-62.0			233.2	566.1	303.0	33.9	1.000052
47500.0	137.9	-62.7			228.2	565.2	304.6	37.5	1.000051
48000.0	134.6	-63.0			223.0	564.8	305.1	42.1	1.000050
48500.0	131.3	-61.8			216.4	566.4	305.9	46.4	1.000048
49000.0	128.1	-61.7			211.1	566.4	309.3	47.7	1.000047
49500.0	125.0	-62.5			206.7	565.4	312.5	49.1	1.000046
50000.0	121.9	-63.2			202.4	564.4	315.6	48.7	1.000045
50500.0	119.0	-64.0			198.1	563.4	318.8	47.8	1.000044
51000.0	116.1	-64.7			194.0	562.4	321.2	45.9	1.000043
51500.0	113.2	-65.3			189.8	561.6	322.9	42.8	1.000042
52000.0	110.5	-64.9			184.8	562.2	324.7	39.4	1.000041
52500.0	107.8	-63.8			179.3	563.7	326.1	34.7	1.000040
53000.0	105.1	-61.6			173.1	566.6	328.0	30.1	1.000039
53500.0	102.6	-61.8			169.1	566.4	324.0	24.0	1.000038
54000.0	100.1	-62.0			165.2	566.1	315.0	17.9	1.000037
54500.0	97.6	-63.2			162.0	564.5	295.6	13.6	1.000036
55000.0	95.2	-64.5			159.0	562.8	265.6	13.2	1.000035
55500.0	92.9	-65.8			156.0	561.0	242.2	16.2	1.000035
56000.0	90.6	-67.0			153.1	559.3	242.4	21.4	1.000034
56500.0	88.3	-68.3			150.2	557.6	242.6	26.6	1.000033
57000.0	86.1	-69.6			147.4	555.8	248.8	26.6	1.000033
57500.0	84.0	-70.9			144.6	554.1	258.8	25.0	1.000032
58000.0	81.9	-71.7			141.7	552.9	269.4	22.8	1.000032
58500.0	79.8	-71.8			138.1	552.7	282.8	18.7	1.000031
59000.0	77.8	-72.0			134.7	552.6	302.0	16.1	1.000030
59500.0	75.8	-71.0			130.7	553.9	301.3	14.9	1.000029
60000.0	73.9	-69.4			126.4	556.1	299.2	13.7	1.000028
60500.0	72.1	-67.7			122.3	558.4	299.0	12.9	1.000027
61000.0	70.3	-66.1			118.3	560.6	300.9	12.4	1.000026
61500.0	68.6	-65.6			115.1	561.2	302.9	11.8	1.000026
62000.0	66.9	-65.4			112.1	561.6	306.0	10.9	1.000025
62500.0	65.2	-65.1			109.3	561.9	309.6	10.0	1.000024
63000.0	63.6	-65.1			106.5	561.9	309.5	8.8	1.000024

UPPER AIR DATA
 0500020113
 WHITE SANDS
 TABLE 5 CONT'

STATION ALTITUDE 3989.00 FEET MSL
 19 FEB. 81
 ASCENSION NO. 113

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES(TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
63500.0	62.1	-65.4		104.1	561.5	304.9	7.3	1.000023
64000.0	60.5	-65.7		101.6	561.2	298.1	6.0	1.000023
64500.0	59.0	-66.0		99.3	560.8	309.5	7.0	1.000022
65000.0	57.6	-66.2		97.0	560.4	317.0	8.3	1.000022
65500.0	56.2	-66.5		94.7	560.0	323.4	10.4	1.000021
66000.0	54.8	-66.8		92.5	559.6	326.5	13.6	1.000021
66500.0	53.4	-65.7		89.7	561.1	328.4	16.8	1.000020
67000.0	52.1	-64.0		86.9	563.4	331.2	16.4	1.000019
67500.0	50.9	-62.4		84.1	565.6	334.1	16.0	1.000019
68000.0	49.6	-61.1		81.5	567.3	338.9	15.5	1.000018
68500.0	48.5	-60.8		79.5	567.7	345.3	15.2	1.000018
69000.0	47.3	-60.5		77.5	568.1	352.0	15.1	1.000017
69500.0	46.2	-60.2		75.6	568.5	350.5	13.5	1.000017
70000.0	45.1	-59.9		73.7	569.0	348.5	12.0	1.000016
70500.0	44.0	-59.6		71.8	569.4	344.2	9.6	1.000016
71000.0	43.0	-59.2		70.0	569.8	329.3	6.0	1.000016
71500.0	42.0	-58.9		68.2	570.2	286.3	3.6	1.000015
72000.0	41.0	-58.6		66.5	570.6	249.7	4.8	1.000015
72500.0	40.0	-58.3		64.9	571.0	242.2	6.8	1.000014
73000.0	39.0	-58.0		63.2	571.4	238.1	8.8	1.000014
73500.0	38.1	-57.7		61.6	571.8	239.2	10.2	1.000014
74000.0	37.2	-57.4		60.1	572.2	241.4	11.3	1.000013
74500.0	36.3	-57.1		58.6	572.7	243.1	12.4	1.000013
75000.0	35.5	-56.8		57.1	573.1	250.0	10.9	1.000013
75500.0	34.6	-56.5		55.7	573.5	259.4	9.5	1.000012
76000.0	33.8	-56.1		54.3	573.9	271.7	8.5	1.000012
76500.0	33.0	-55.8		52.9	574.3	286.7	8.2	1.000012
77000.0	32.2	-55.5		51.6	574.7	301.6	8.5	1.000011
77500.0	31.5	-55.2		50.3	575.1	311.1	9.2	1.000011
78000.0	30.7	-54.9		49.0	575.5	311.7	9.7	1.000011
78500.0	30.0	-54.6		47.8	575.9	312.3	10.2	1.000011
79000.0	29.3	-54.4		46.7	576.2	312.7	10.5	1.000010
79500.0	28.6	-54.2		45.5	576.4	312.7	10.6	1.000010
80000.0	28.0	-54.1		44.4	576.6	312.7	10.8	1.000010
80500.0	27.3	-53.9		43.4	576.9	311.2	11.0	1.000010
81000.0	26.7	-53.7		42.3	577.1	308.3	11.3	1.000009
81500.0	26.1	-53.5		41.3	577.3	305.6	11.6	1.000009
82000.0	25.5	-53.3		40.3	577.6	301.7	11.6	1.000009
82500.0	24.9	-53.2		39.4	577.8	297.0	11.5	1.000009
83000.0	24.3	-53.0		38.4	578.1	292.3	11.6	1.000009

STATION ALTITUDE 3989.00 FEET MSL
 19 FEB. 81
 ASCENSION NO. 113

UPPER AIR DATA
 0500020113
 WHITE SANDS
 TABLE 5 cont'

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TH)	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE					SPEED KNOTS	SPEED KNOTS	
83500.0	23.7	-52.8			37.5	578.3	285.3	285.3	12.2	1.000008
84000.0	23.2	-52.6			36.6	578.5	278.4	278.4	13.2	1.000008
84500.0	22.6	-52.4			35.7	578.8	272.5	272.5	14.4	1.000008
85000.0	22.1	-52.3			34.9	579.0	277.1	277.1	15.7	1.000008
85500.0	21.6	-52.1			34.0	579.2	284.6	284.6	17.3	1.000008
86000.0	21.1	-51.9			33.2	579.5	290.8	290.8	19.1	1.000007
86500.0	20.6	-51.7			32.4	579.7	296.1	296.1	20.4	1.000007
87000.0	20.1	-51.6			31.7	579.9	301.4	301.4	21.0	1.000007
87500.0	19.7	-51.8			31.0	579.6	306.4	306.4	21.8	1.000007
88000.0	19.2	-52.1			30.3	579.2	309.9	309.9	22.3	1.000007
88500.0	18.8	-52.5			29.6	578.7	308.5	308.5	21.4	1.000007
89000.0	18.3	-52.2			28.9	579.1	307.0	307.0	20.6	1.000006
89500.0	17.9	-51.9			28.2	579.5	305.4	305.4	19.7	1.000006
90000.0	17.5	-51.6			27.5	579.9	304.0	304.0	19.2	1.000006
90500.0	17.1	-51.3			26.9	580.3	302.5	302.5	18.7	1.000006
91000.0	16.7	-51.0			26.2	580.6	300.9	300.9	18.2	1.000006
91500.0	16.3	-50.7			25.6	581.0	297.4	297.4	18.0	1.000006
92000.0	16.0	-50.4			25.0	581.4	292.7	292.7	17.9	1.000006
92500.0	15.6	-50.1			24.4	581.8	289.1	289.1	18.0	1.000005
93000.0	15.2	-49.8			23.8	582.2	283.7	283.7	18.6	1.000005
93500.0	14.9	-49.5			23.2	582.6	279.9	279.9	19.8	1.000005
94000.0	14.6	-49.2			22.7	582.9	276.5	276.5	21.1	1.000005
94500.0	14.2	-48.9			22.1	583.3	273.9	273.9	22.4	1.000005
95000.0	13.9	-48.7			21.6	583.7	277.3	277.3	23.8	1.000005
95500.0	13.6	-48.4			21.1	584.1	280.3	280.3	25.3	1.000005
96000.0	13.3	-48.1			20.5	584.5	283.0	283.0	26.9	1.000005
96500.0	13.0	-47.8			20.1	584.9	284.4	284.4	27.3	1.000004
97000.0	12.7	-47.3			19.6	585.5	285.5	285.5	27.5	1.000004
97500.0	12.4	-46.5			19.1	586.5	286.6	286.6	27.6	1.000004
98000.0	12.1	-45.8			18.6	587.5				1.000004
98500.0	11.8	-45.0			18.1	588.4				1.000004
99000.0	11.6	-44.2			17.6	589.4				1.000004
99500.0	11.3	-43.5			17.2	590.4				1.000004
100000.0	11.1	-42.7			16.7	591.4				1.000004

STATION ALTITUDE 3989.00 FEET MSL
 19 FEB. 61 1050 HRS MST
 ASCENSION NO. 113

MANDATORY LEVELLS
 0500020113
 WHITE SANDS
 TABLE 6

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL, FLEET	AIR TEMPERATURE DEGREES CENTIGRADE	DEWPOINT TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DATA		
					DIRECTION DEGREES(TN)	SPEED KNOTS	WIND DATA
850.0	5176.	14.9	-8	34.	348.2	5.7	
800.0	6852.	12.3	-3.5	33.	315.6	5.9	
750.0	8616.	9.4	-6.6	32.	15.4	2.9	
700.0	10486.	7.4	-9.9	28.	137.5	5.3	
650.0	12472.	3.4	-13.0	29.	64.8	4.3	
600.0	14589.	-3	-16.5	28.	79.0	5.7	
550.0	16845.	-6.8	-22.0	28.	126.6	12.9	
500.0	19253.	-14.0	-28.1	29.	91.1	9.7	
450.0	21846.	-20.1	-33.1	30.	46.5	15.7	
400.0	24664.	-28.1	-39.9	31.	72.3	14.2	
350.0	27760.	-35.7	-46.7	31.	39.7	15.6	
300.0	31212.	-44.7			17.6	18.8	
250.0	35137.	-53.0			335.5	13.7	
200.0	39790.	-56.7			301.2	9.7	
175.0	42542.	-60.9			247.7	29.9	
150.0	45669.	-62.7			295.0	28.8	
125.0	49361.	-62.5			312.4	49.1	
100.0	53056.	-62.0			315.2	18.0	
80.0	58264.	-71.8			280.5	19.2	
70.0	60874.	-65.8			301.1	12.4	
60.0	63952.	-65.8			301.9	6.3	
50.0	67594.	-61.2			336.5	15.7	
40.0	72170.	-58.3			243.1	6.5	
30.0	78161.	-54.6			312.3	10.1	
25.0	82002.	-53.2			290.6	11.6	
20.0	86737.	-51.5			302.5	21.2	
15.0	92871.	-49.6			281.4	19.3	

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

STATION ALTITUDE 3997.30 FEET MSL
 19 FEB. 81
 ASCENSION NO. 27

SIGNIFICANT LEVEL DATA
 0500060027
 S M R
 TABLE 7

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

PRESSURE GEOMET. IC		TEMPERATURE		REL. HUM.
ALTITUDE	AIR	DEWPOINT		PERCENT
MILLIBARS MSL FELT	DEGREES	CENTIGRADE		
888.9	11.3	-2.5		38.0
876.2	10.5	-6.2		26.0
859.4	14.5	-5.8		24.0
850.0	14.6	-5.7		24.0
821.6	14.5	-6.4		23.0
700.0	6.0	-15.8		19.0
601.5	-3.3	-21.1		19.0
500.0	-13.7	-32.3		19.0
469.0	-18.4	-35.7		20.0
438.4	-21.5	-37.9		21.0
400.0	-27.8	-43.7		20.0
352.0	-35.0	-49.5		21.0
322.9	-38.4			
300.0	-44.2			
280.3	-47.5			
250.0	-53.0			
225.5	-57.7			
200.0	-57.7			
192.0	-55.1			
172.8	-60.0			
161.2	-62.9			
150.0	-63.5			
122.8	-63.4			
111.0	-64.5			
105.9	-60.2			
100.0	-61.9			
87.0	-67.7			
75.8	-70.7			
70.0	-68.0			
64.7	-65.1			
53.6	-65.9			
50.0	-60.0			
43.2	-60.4			
33.9	-59.4			
30.0	-55.1			
23.8	-50.5			
20.0	-51.2			
18.8	-52.0			
17.1	-54.2			
16.0	-52.5			

STATION ALTITUDE 3997.30 FEET MSL
19 FEB. 81
ASCENSION NO. 27

SIGNIFICANT LEVELL DATA
0500060027
S M R
TABLE 7 cont'

GLONETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

PRESSURE GEOMET IC
ALTITUDE
MILLIBARS MSL FEET
15.2 93095.1
12.2 97868.4

TEMPERATURE
AIR DEWPOINT
DEGREES CENTIGRADE
-51.6
-47.2

REL. HUM.
PERCENT

STATION ALTITUDE 3997.30 FEET MSL
 19 FEB. 81 1000 HRS MST
 ASCENSION NO. 27

UPPER AIR DATA
 0500060027
 S M R
 TABLE 8

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
3997.3	888.9	11.3	-2.5	38.0	1086.3	657.8	0	0	1.000266
4000.0	888.8	11.3	-2.5	37.9	1086.2	657.8	347.1	0	1.000266
4500.0	872.7	11.3	-7.7	25.6	1067.2	657.6	347.1	1.9	1.000254
5000.0	857.0	14.5	-5.8	24.0	1036.0	661.3	347.1	3.9	1.000249
5500.0	841.7	14.6	-5.9	23.7	1017.3	661.4	347.1	5.8	1.000245
6000.0	826.7	14.5	-6.2	23.2	999.4	661.3	339.8	6.7	1.000240
6500.0	811.8	13.9	-7.1	22.7	983.6	660.6	326.1	6.9	1.000236
7000.0	797.0	12.9	-8.1	22.2	969.2	659.4	322.8	7.1	1.000231
7500.0	782.6	11.9	-9.2	21.8	954.9	658.2	322.3	7.2	1.000227
8000.0	768.4	10.9	-10.3	21.3	940.9	657.1	333.7	5.5	1.000223
8500.0	754.4	10.0	-11.4	20.9	927.1	655.9	355.3	4.1	1.000219
9000.0	740.7	9.0	-12.5	20.4	913.5	654.8	47.2	2.4	1.000215
9500.0	727.3	8.0	-13.6	20.0	900.1	653.6	100.8	3.4	1.000211
10000.0	714.1	7.1	-14.6	19.5	886.9	652.5	120.8	3.5	1.000207
10500.0	701.1	6.1	-15.7	19.0	873.9	651.3	131.0	3.7	1.000203
11000.0	688.1	5.3	-16.4	19.0	860.1	650.4	124.8	3.4	1.000200
11500.0	675.3	4.5	-17.1	19.0	846.5	649.4	115.6	3.1	1.000196
12000.0	662.7	3.7	-17.7	19.0	833.1	648.5	100.6	2.8	1.000193
12500.0	650.4	2.9	-18.4	19.0	819.9	647.6	61.2	3.3	1.000190
13000.0	638.3	2.2	-19.0	19.0	807.0	646.7	33.4	6.1	1.000187
13500.0	626.4	1.4	-19.7	19.0	794.2	645.7	28.6	8.2	1.000183
14000.0	614.7	.6	-20.3	19.0	781.7	644.8	29.7	9.2	1.000180
14500.0	603.3	-.2	-21.0	19.0	769.3	643.9	37.7	8.8	1.000177
15000.0	591.7	-1.5	-22.1	19.0	758.2	642.3	54.6	7.8	1.000174
15500.0	580.2	-2.9	-23.2	19.0	747.5	640.6	71.4	8.1	1.000171
16000.0	569.0	-4.3	-24.4	19.0	737.0	638.9	84.3	9.1	1.000169
16500.0	558.1	-5.7	-25.6	19.0	726.6	637.2	92.5	10.1	1.000166
17000.0	547.3	-7.1	-26.8	19.0	716.4	635.5	98.6	11.1	1.000163
17500.0	536.7	-8.6	-28.0	19.0	706.4	633.8	100.9	11.6	1.000161
18000.0	526.3	-10.0	-29.2	19.0	696.5	632.1	102.4	12.0	1.000158
18500.0	516.2	-11.4	-30.3	19.0	686.7	630.4	93.9	11.9	1.000156
19000.0	506.2	-12.8	-31.5	19.0	677.1	628.7	85.0	12.0	1.000153
19500.0	496.3	-14.2	-32.7	19.1	667.6	626.9	74.5	12.1	1.000151
20000.0	486.4	-15.7	-33.8	19.4	658.1	625.1	65.1	12.7	1.000149
20500.0	476.7	-17.2	-34.8	19.7	648.7	623.3	61.5	14.3	1.000146
21000.0	467.1	-18.6	-35.9	20.1	639.1	621.6	58.5	15.9	1.000144
21500.0	457.7	-19.5	-36.5	20.4	628.5	620.5	55.7	17.5	1.000142
22000.0	448.4	-20.5	-37.2	20.7	616.0	619.3	53.3	19.2	1.000139
22500.0	439.3	-21.4	-37.8	21.0	607.8	618.2	50.2	19.9	1.000137
23000.0	430.2	-22.8	-39.1	20.8	598.5	616.5	47.2	20.6	1.000135

STATION ALTITUDE 3997.30 FEET MSL
 19 FEB. 61 1000 HRS MST
 ASCENSION NO. 27

UPPER AIR DATA
 0500060027
 S M R
 TABLE 8 cont'

GEODETTIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
23500.0	421.3	-24.2	-40.4	20.6	589.6	614.7	46.4	20.8	1.000132
24000.0	412.6	-25.7	-41.7	20.3	580.7	612.9	46.4	20.8	1.000130
24500.0	404.1	-27.1	-43.1	20.1	572.1	611.1	47.6	20.5	1.000128
25000.0	395.6	-28.4	-44.2	20.1	563.1	609.5	50.0	20.2	1.000126
25500.0	387.2	-29.6	-45.2	20.3	553.9	608.0	51.2	19.9	1.000124
26000.0	379.0	-30.8	-46.1	20.4	544.8	606.5	51.5	19.4	1.000122
26500.0	371.0	-32.0	-47.1	20.6	536.0	604.9	48.2	19.1	1.000120
27000.0	363.1	-33.3	-48.1	20.8	527.2	603.4	41.6	19.1	1.000118
27500.0	355.4	-34.5	-49.0	20.9	518.6	601.9	36.6	19.0	1.000116
28000.0	347.8	-35.5	-51.2	18.0**	509.7	600.6	33.0	18.9	1.000114
28500.0	340.2	-36.3	-54.8	12.7**	500.5	599.5	30.4	18.9	1.000112
29000.0	332.8	-37.2	-59.8	7.4**	491.4	598.4	30.1	19.0	1.000110
29500.0	325.6	-38.1	-69.8	2.0**	482.5	597.3	29.7	19.1	1.000107
30000.0	318.5	-39.5			474.8	595.5	28.4	19.7	1.000106
30500.0	311.4	-41.3			467.8	593.3	27.1	20.2	1.000104
31000.0	304.5	-43.0			461.0	591.0	23.6	20.1	1.000103
31500.0	297.7	-44.6			453.8	589.0	20.1	20.1	1.000101
32000.0	291.0	-45.7			445.7	587.6	15.2	19.9	1.000099
32500.0	284.5	-46.8			437.8	586.1	9.6	19.9	1.000098
33000.0	278.0	-47.9			430.0	584.7	3.6	19.6	1.000096
33500.0	271.6	-49.0			422.2	583.2	356.9	18.7	1.000094
34000.0	265.4	-50.1			414.5	581.8	349.4	17.7	1.000092
34500.0	259.3	-51.2			407.0	580.3	340.5	15.6	1.000091
35000.0	253.3	-52.4			399.7	578.9	329.2	13.9	1.000089
35500.0	247.4	-53.5			392.4	577.4	320.3	12.8	1.000087
36000.0	241.6	-54.6			385.1	576.0	310.9	12.0	1.000086
36500.0	235.9	-55.6			377.9	574.6	310.0	11.5	1.000084
37000.0	230.4	-56.7			370.8	573.1	316.0	11.2	1.000083
37500.0	225.0	-57.7			363.8	571.8	323.3	11.0	1.000081
38000.0	219.6	-57.7			355.1	571.8	333.0	11.3	1.000079
38500.0	214.4	-57.7			346.7	571.8	342.1	11.8	1.000077
39000.0	209.3	-57.7			338.4	571.8	335.6	11.3	1.000075
39500.0	204.3	-57.7			330.4	571.8	327.3	10.8	1.000074
40000.0	199.5	-57.5			322.3	572.1	307.7	9.6	1.000072
40500.0	194.0	-56.0			312.5	574.1	274.6	10.0	1.000070
41000.0	190.2	-55.5			304.4	574.7	250.6	13.1	1.000068
41500.0	185.6	-56.7			298.7	573.2	243.5	16.2	1.000067
42000.0	181.2	-57.8			293.2	571.7	239.7	19.2	1.000065
42500.0	176.9	-58.9			287.7	570.2	237.8	22.1	1.000064
43000.0	172.7	-60.0			282.3	568.6	244.2	22.9	1.000063

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

UPPER AIR DATA
 0500060027
 S M R
 TABLE 8 cont'

STATION ALTITUDE 3997.30 FEET MSL
 19 FEB. 81 1000 HRS MST
 ASCENSION NO. 27

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
43500.0	168.6	-61.0		276.8	567.4	250.1	24.0	1.000062
44000.0	164.5	-62.1		271.5	566.0	256.3	24.5	1.000060
44500.0	160.5	-62.9		266.0	564.8	266.0	23.0	1.000059
45000.0	156.6	-63.1		259.8	564.6	276.5	22.3	1.000058
45500.0	152.8	-63.3		253.7	564.3	286.0	22.5	1.000057
46000.0	149.1	-63.5		247.7	564.1	299.5	23.9	1.000055
46500.0	145.4	-63.5		241.6	564.1	309.3	26.1	1.000054
47000.0	141.9	-63.5		235.7	564.1	311.5	29.3	1.000052
47500.0	138.4	-63.5		230.0	564.1	310.9	32.8	1.000051
48000.0	135.0	-63.4		224.3	564.2	310.3	36.3	1.000050
48500.0	131.8	-63.4		218.9	564.2	310.6	39.4	1.000049
49000.0	128.5	-63.4		213.5	564.2	311.0	42.4	1.000048
49500.0	125.4	-63.4		208.3	564.2	311.8	45.1	1.000046
50000.0	122.3	-63.4		203.2	564.2	314.2	46.7	1.000045
50500.0	119.4	-63.7		198.5	563.8	316.4	48.3	1.000044
51000.0	116.4	-64.0		193.9	563.4	318.8	47.7	1.000043
51500.0	113.6	-64.2		189.4	563.1	321.7	45.4	1.000042
52000.0	110.8	-64.4		184.9	562.9	325.0	43.2	1.000041
52500.0	108.1	-62.1		178.5	565.9	325.1	38.1	1.000040
53000.0	105.5	-60.3		172.7	568.4	324.2	32.4	1.000038
53500.0	103.0	-61.0		169.1	567.4	322.8	26.8	1.000038
54000.0	100.5	-61.8		165.6	566.4	309.7	21.3	1.000037
54500.0	98.0	-62.7		162.3	565.1	289.5	17.6	1.000036
55000.0	95.6	-63.8		159.1	563.7	267.6	16.6	1.000035
55500.0	93.3	-64.8		156.0	562.3	257.4	16.6	1.000035
56000.0	91.0	-65.8		152.9	560.9	247.5	17.1	1.000034
56500.0	88.8	-66.9		149.9	559.5	241.5	17.6	1.000033
57000.0	86.6	-67.8		146.9	558.3	247.4	16.8	1.000033
57500.0	84.4	-68.4		143.6	557.5	253.8	16.3	1.000032
58000.0	82.3	-68.9		140.4	556.8	260.7	15.6	1.000031
58500.0	80.2	-69.5		137.2	556.0	269.0	14.4	1.000031
59000.0	78.2	-70.0		134.2	555.3	278.5	13.5	1.000030
59500.0	76.3	-70.6		131.2	554.5	289.1	12.9	1.000029
60000.0	74.4	-70.1		127.5	555.2	294.9	12.0	1.000028
60500.0	72.5	-69.2		123.8	556.4	302.7	11.2	1.000028
61000.0	70.7	-68.3		120.2	557.5	310.8	10.8	1.000027
61500.0	68.9	-67.4		116.7	558.8	311.2	10.8	1.000026
62000.0	67.2	-66.5		113.3	560.0	311.7	10.8	1.000025
62500.0	65.6	-65.6		110.0	561.3	312.2	10.9	1.000024
63000.0	63.9	-65.1		107.1	561.9	314.5	10.6	1.000024

STATION ALTITUDE 3997.30 FEET MSL
 19 FEB. 81
 ASCENSION NO. 27

UPPER AIR DATA
 0500060027
 S M R
 TABLE 8 cont'

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
63500.0	62.4	-65.3			104.5	561.7	317.2	10.4	1.000023
64000.0	60.8	-65.4			102.0	561.6	319.9	10.2	1.000023
64500.0	59.3	-65.5			99.5	561.4	321.4	10.0	1.000022
65000.0	57.9	-65.6			97.1	561.3	321.8	10.0	1.000022
65500.0	56.5	-65.7			94.8	561.1	322.2	9.9	1.000021
66000.0	55.1	-65.8			92.5	561.0	322.4	9.9	1.000021
66500.0	53.7	-65.9			90.3	560.9	322.1	9.9	1.000020
67000.0	52.4	-64.0			87.3	563.4	321.8	10.0	1.000019
67500.0	51.1	-61.9			84.3	566.2	321.6	10.1	1.000019
68000.0	49.9	-60.0			81.6	568.8	322.2	10.5	1.000018
68500.0	48.7	-60.1			79.6	568.7	323.3	11.1	1.000018
69000.0	47.5	-60.1			77.7	568.6	324.2	11.7	1.000017
69500.0	46.4	-60.2			75.9	568.5	324.8	12.2	1.000017
70000.0	45.3	-60.3			74.1	568.4	320.6	9.4	1.000016
70500.0	44.2	-60.3			72.4	568.3	312.9	6.7	1.000016
71000.0	43.1	-60.4			70.6	568.2	295.7	4.3	1.000016
71500.0	42.1	-60.3			68.9	568.4	258.9	3.0	1.000015
72000.0	41.1	-60.2			67.2	568.5	251.7	3.0	1.000015
72500.0	40.1	-60.1			65.6	568.6	244.7	3.0	1.000015
73000.0	39.2	-60.0			64.0	568.8	238.1	3.1	1.000014
73500.0	38.2	-59.9			62.4	568.9	239.5	3.2	1.000014
74000.0	37.3	-59.8			60.9	569.0	276.2	3.3	1.000014
74500.0	36.4	-59.7			59.4	569.2	301.0	4.5	1.000013
75000.0	35.5	-59.6			58.0	569.3	314.0	6.1	1.000013
75500.0	34.7	-59.5			56.6	569.4	319.2	7.5	1.000013
76000.0	33.9	-59.4			55.2	569.0	316.7	7.6	1.000012
76500.0	33.1	-58.5			53.7	570.7	314.4	7.7	1.000012
77000.0	32.3	-57.7			52.2	571.9	312.1	7.9	1.000012
77500.0	31.5	-56.8			50.8	573.0	309.8	8.0	1.000011
78000.0	30.8	-56.0			49.4	574.1	309.0	8.7	1.000011
78500.0	30.0	-55.2			48.0	575.2	308.5	9.6	1.000011
79000.0	29.4	-54.7			46.8	575.8	308.1	10.4	1.000010
79500.0	28.7	-54.2			45.6	576.5	307.7	11.3	1.000010
80000.0	28.0	-53.7			44.5	577.1	307.4	12.1	1.000010
80500.0	27.4	-53.3			43.4	577.7	306.9	12.2	1.000010
81000.0	26.7	-52.8			42.3	578.3	306.4	12.3	1.000009
81500.0	26.1	-52.3			41.2	578.9	305.9	12.4	1.000009
82000.0	25.5	-51.9			40.2	579.5	305.4	12.5	1.000009
82500.0	24.9	-51.4			39.1	580.1	304.4	12.6	1.000009
83000.0	24.3	-50.9			38.2	580.7	302.3	12.8	1.000008

UPPER AIR DATA
 0500060027
 S M R
 TABLE 8 CONT'

STATION ALTITUDE 3997.30 FEET MSL
 19 FEB. 81
 ASCENSION NO. 27

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
83500.0	23.8	-50.5			37.2	581.3	300.2	12.9	1.000008
84000.0	23.2	-50.6			36.4	581.2	298.1	13.0	1.000008
84500.0	22.7	-50.7			35.5	581.1	296.1	13.2	1.000008
85000.0	22.2	-50.8			34.7	580.9	292.4	13.3	1.000008
85500.0	21.7	-50.9			34.0	580.8	287.2	13.6	1.000008
86000.0	21.2	-51.0			33.2	580.7	282.2	14.1	1.000007
86500.0	20.7	-51.1			32.4	580.6	277.6	14.6	1.000007
87000.0	20.2	-51.2			31.7	580.4	273.2	15.2	1.000007
87500.0	19.7	-51.4			31.0	580.2	273.3	16.0	1.000007
88000.0	19.3	-51.7			30.3	579.8	275.4	17.0	1.000007
88500.0	18.8	-52.0			29.7	579.4	277.3	17.9	1.000007
89000.0	18.4	-52.5			29.1	578.7	279.0	18.9	1.000006
89500.0	18.0	-53.0			28.5	578.0	281.1	19.9	1.000006
90000.0	17.6	-53.6			27.9	577.3	286.7	20.7	1.000006
90500.0	17.2	-54.1			27.3	576.6	291.8	21.8	1.000006
91000.0	16.8	-53.7			26.6	577.1	296.4	22.9	1.000006
91500.0	16.4	-53.1			25.9	577.9	300.5	24.2	1.000006
92000.0	16.0	-52.5			25.3	578.7	303.1	25.1	1.000006
92500.0	15.6	-52.1			24.6	579.2	305.3	25.8	1.000005
93000.0	15.3	-51.7			24.0	579.8	307.3	26.5	1.000005
93500.0	14.9	-51.2			23.4	580.4	309.2	27.3	1.000005
94000.0	14.6	-50.8			22.8	581.0			1.000005
94500.0	14.2	-50.3			22.3	581.6			1.000005
95000.0	13.9	-49.8			21.7	582.2			1.000005
95500.0	13.6	-49.4			21.2	582.8			1.000005
96000.0	13.3	-48.9			20.7	583.4			1.000005
96500.0	13.0	-48.5			20.1	584.0			1.000004
97000.0	12.7	-48.0			19.6	584.6			1.000004
97500.0	12.4	-47.5			19.2	585.2			1.000004

STATION ALTITUDE 3997.30 FEET MSL
 19 FEB. 01
 1000 HRS MST
 A575180 NO. 27

MANDATORY LEVELS
 0500060027
 S M R
 TABLE 9

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

PRESSURE GEOPOTENTIAL MILLIBARS	FLEET	TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5225.	14.6	-5.7	24.	347.1	4.8
800.0	6902.	13.1	-7.9	22.	322.9	7.1
750.0	8669.	9.7	-11.7	21.	6.7	3.2
700.0	10534.	6.0	-15.8	19.	130.5	3.7
650.0	12513.	2.9	-18.4	19.	59.2	3.4
600.0	14626.	-1.5	-21.2	19.	41.9	6.5
550.0	16880.	-6.8	-26.5	19.	97.4	10.9
500.0	19289.	-13.7	-32.3	19.	78.5	12.0
450.0	21880.	-20.3	-37.0	21.	53.7	18.9
400.0	24703.	-27.8	-43.7	20.	48.0	20.4
350.0	27003.	-35.2	-50.2	20.**	34.1	18.9
300.0	31273.	-44.2			21.5	20.1
250.0	35207.	-53.0			324.3	13.3
200.0	39850.	-57.7			312.4	9.9
175.0	42624.	-59.4			240.6	22.4
150.0	45750.	-63.5			296.2	23.4
125.0	49424.	-63.4			312.0	45.2
100.0	53934.	-61.9			307.2	20.6
80.0	58371.	-69.5			269.6	14.3
70.0	60983.	-68.0			310.9	10.8
60.0	64052.	-65.4			321.2	10.1
50.0	67706.	-60.0			322.1	10.4
40.0	72272.	-60.1			244.4	3.0
30.0	78201.	-55.1			308.5	9.6
25.0	82053.	-51.5			305.0	12.6
20.0	86020.	-51.2			271.8	15.4
15.0	92918.	-51.3			308.5	27.0

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

GEODETIC COORDINATES
 32.88865 LAT (NEG)
 106.09965 LON (NEG)

SIGNIFICANT LEVEL DATA
 0500010031
 HOLLOWMAN

STATION ALTITUDE 4126.59 FEET MSL
 19 FEB. 81
 1050 HRS MST
 ASCENSION NO. 31

TABLE 10

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREE'S CENTIGRADE	DEWPOINT CENTIGRADE	
883.2	4126.6	18.5	-3.0	23.0
873.6	4433.6	18.1	-3.3	23.0
850.0	5198.4	15.0	-2.4	30.0
804.2	6726.5	11.1	-5.4	31.0
774.4	7760.5	10.9	-9.4	23.0
754.2	8483.3	10.4	-10.4	22.0
700.0	10503.2	5.5	-13.9	23.0
686.8	11014.8	6.1	-14.0	22.0
649.6	12504.8	3.0	-17.1	21.0
631.2	13268.6	2.5	-18.1	20.0
568.6	16007.9	-4.4	-22.4	23.0
504.5	19060.3	-12.2	-29.5	22.0
500.0	19284.9	-13.9	-30.5	23.0
400.0	24707.3	-28.1	-39.6	32.0
392.2	25172.3	-28.2	-40.3	30.0
330.1	29154.8	-38.8	-49.7	30.0
300.0	31288.2	-44.7		
279.0	32873.4	-48.0		
250.0	35232.5	-52.0		
244.2	35731.0	-54.1		
211.8	38703.1	-59.4		
200.0	39887.8	-58.6		
181.8	41871.0	-57.0		
159.0	44634.3	-62.1		
150.0	45820.1	-62.7		
129.0	48879.1	-63.6		
117.2	50820.1	-63.8		
109.6	52173.0	-64.8		
105.8	52888.5	-61.8		
100.0	54043.0	-60.7		
77.6	59151.9	-68.8		
72.7	60447.0	-66.8		
71.2	60960.9	-69.0		
70.0	61197.4	-67.8		
68.0	61776.9	-65.1		
64.8	62745.0	-65.9		
50.0	68000.2	-61.4		
40.2	72493.7	-59.3		
30.0	78638.4	-53.4		
26.9	80978.4	-50.0		

GEODETIC COORDINATES
 32.88865 LAT DEG
 106.09965 LON DEG

SIGNIFICANT LEVEL DATA
 0500010031
 HOLLOWMAN

STATION ALTITUDE 4126.59 FEET MSL
 19 FEB. 61 1050 HRS MST
 ASCENSION NO. 31

TABLE 10 cont'

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
20.0	87364.4	-51.7	-51.7	
17.1	90729.0	-43.7	-40.1	
13.4	96062.7			
10.6	101323.6			

GEODETIC COORDINATES
32.88865 LAT DEG
106.09965 LON DEG

UPPER AIR DATA
0509010031
HOLLAMAN
TABLE 11

STATION ALTITUDE 4126.59 FEET MSL
19 FEB. 61 1050 HRS MST
ASCENSION NO. 31

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CURIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES(TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
4126.6	883.2	18.5	23.0	1052.7	666.0	290.0	5.1	1.000256
4500.0	871.5	17.8	23.6	1041.2	665.2	308.7	5.4	1.000254
5000.0	856.1	15.8	28.2	1029.8	663.0	328.0	6.5	1.000252
5500.0	840.8	14.2	30.2	1016.9	661.2	340.6	8.2	1.000249
6000.0	825.7	13.0	30.5	1003.2	659.6	347.7	9.6	1.000245
6500.0	810.8	11.7	30.9	989.7	658.1	346.5	7.1	1.000240
7000.0	796.2	11.0	28.9	974.2	657.3	344.1	4.6	1.000235
7500.0	781.8	11.0	25.0	957.1	657.2	340.7	3.8	1.000229
8000.0	767.6	10.7	22.7	940.7	656.9	338.7	3.6	1.000223
8500.0	753.7	10.4	22.0	924.9	656.4	340.6	4.2	1.000219
9000.0	739.9	9.1	22.3	911.9	655.0	334.4	3.0	1.000215
9500.0	726.4	7.9	22.5	899.2	653.6	301.2	1.3	1.000212
10000.0	713.1	6.7	22.8	886.6	652.1	215.9	2.3	1.000208
10500.0	700.1	5.5	23.0	874.2	650.7	201.0	4.0	1.000205
11000.0	687.2	6.1	22.0	856.3	651.4	199.4	4.3	1.000201
11500.0	674.5	5.1	21.7	843.5	650.2	181.8	3.7	1.000197
12000.0	662.0	4.1	21.3	831.1	648.9	127.4	3.9	1.000194
12500.0	649.7	3.0	21.0	818.8	647.7	94.9	7.1	1.000190
13000.0	637.6	2.7	20.4	804.6	647.3	82.7	11.6	1.000187
13500.0	625.7	1.9	20.3	791.7	646.4	79.3	14.0	1.000183
14000.0	613.8	.7	20.8	780.4	644.9	77.4	15.7	1.000181
14500.0	602.2	-6	21.3	769.2	643.4	77.7	14.7	1.000178
15000.0	590.9	-1.9	21.9	758.2	641.9	77.7	13.5	1.000175
15500.0	579.7	-3.1	22.4	747.4	640.4	75.0	10.9	1.000172
16000.0	568.8	-4.4	23.0	736.7	638.9	70.4	8.5	1.000169
16500.0	557.7	-5.7	22.8	725.9	637.4	60.8	6.2	1.000167
17000.0	546.9	-6.9	22.7	715.3	635.8	45.4	4.4	1.000164
17500.0	536.3	-8.2	22.5	704.8	634.3	32.8	3.4	1.000161
18000.0	525.9	-9.5	22.3	694.5	632.7	20.3	3.0	1.000158
18500.0	515.7	-10.8	22.2	684.4	631.2	20.6	3.4	1.000156
19000.0	505.7	-12.0	22.0	674.4	629.6	26.4	4.4	1.000153
19500.0	495.6	-14.5	23.4	667.2	626.7	33.2	5.9	1.000151
20000.0	485.5	-15.8	24.2	656.9	625.1	39.4	7.8	1.000149
20500.0	475.6	-17.1	25.0	646.8	623.5	41.8	9.9	1.000146
21000.0	465.9	-18.4	25.8	636.9	621.9	36.4	12.3	1.000144
21500.0	456.4	-19.7	26.7	627.2	620.3	32.0	14.6	1.000142
22000.0	447.1	-21.0	27.5	617.6	618.7	26.3	16.4	1.000139
22500.0	438.0	-22.3	28.3	608.2	617.1	23.2	17.4	1.000137
23000.0	429.1	-23.6	29.2	599.0	615.5	22.5	17.1	1.000135
23500.0	420.4	-24.9	30.0	589.9	613.8	23.1	16.0	1.000133

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STATION ALTITUDE 4126.59 FEET MSL
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GEODETIC COORDINATES
 32.88865 LAT DEG
 106.09965 LON DEG

TABLE 11 cont'

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
							DIRECTION DEGREES (TN)	SPEED KNOTS	
24000.0	411.8	-26.2	-38.3	30.8	580.9	612.2	26.2	13.8	1.000131
24500.0	403.4	-27.6	-39.2	31.7	572.1	610.6	29.3	12.2	1.000129
25000.0	395.1	-28.2	-40.0	30.7	561.7	609.8	31.5	11.3	1.000126
25500.0	386.7	-29.1	-41.1	30.0	551.8	608.7	32.2	11.5	1.000124
26000.0	378.4	-30.4	-42.3	30.0	543.0	607.0	31.7	12.5	1.000122
26500.0	370.3	-31.7	-43.4	30.0	534.3	605.3	31.1	13.6	1.000120
27000.0	362.4	-33.1	-44.6	30.0	525.7	603.7	30.5	14.7	1.000118
27500.0	354.6	-34.4	-45.8	30.0	517.4	602.0	28.4	15.2	1.000116
28000.0	347.0	-35.7	-47.0	30.0	509.1	600.3	26.2	15.6	1.000114
28500.0	339.6	-37.1	-48.2	30.0	501.0	598.6	25.0	15.8	1.000112
29000.0	332.3	-38.4	-49.4	30.0	493.1	596.9	24.1	16.0	1.000110
29500.0	325.0	-39.8	-52.1	25.1**	485.1	595.2	22.1	16.5	1.000108
30000.0	317.8	-41.1	-56.0	18.1**	477.2	593.4	19.6	17.1	1.000106
30500.0	310.8	-42.5	-61.0	11.1**	469.4	591.6	16.6	17.8	1.000105
31000.0	303.9	-43.9	-69.3	4.1**	461.8	589.9	12.4	18.3	1.000103
31500.0	297.1	-45.2			454.1	588.2	8.4	18.9	1.000101
32000.0	290.4	-46.5			446.2	586.6	3.1	19.4	1.000099
32500.0	283.8	-47.7			438.5	585.0	358.2	20.1	1.000098
33000.0	277.4	-48.8			430.6	583.5	354.3	20.0	1.000096
33500.0	271.0	-49.5			422.1	582.6	350.6	19.9	1.000094
34000.0	264.8	-50.2			413.7	581.7	349.3	19.4	1.000092
34500.0	258.7	-50.9			405.5	580.7	349.5	18.6	1.000090
35000.0	252.7	-51.7			397.5	579.8	350.8	17.8	1.000089
35500.0	246.9	-53.1			390.9	577.9	354.6	17.1	1.000087
36000.0	241.1	-54.6			384.2	576.0	358.8	16.5	1.000086
36500.0	235.4	-55.5			376.7	574.8	3.9	15.7	1.000084
37000.0	229.8	-56.4			369.3	573.6	9.6	15.0	1.000082
37500.0	224.4	-57.3			362.0	572.4	8.5	13.4	1.000081
38000.0	219.1	-58.1			354.9	571.2	6.7	11.8	1.000079
38500.0	213.9	-59.0			348.0	570.1	2.9	11.3	1.000078
39000.0	208.8	-59.2			339.9	569.8	358.5	11.0	1.000076
39500.0	203.8	-58.9			331.3	570.3	355.8	11.1	1.000074
40000.0	198.9	-58.5			322.9	570.8	355.3	11.4	1.000072
40500.0	194.2	-58.1			314.6	571.3	352.6	11.1	1.000070
41000.0	189.6	-57.7			306.5	571.8	328.1	7.5	1.000068
41500.0	185.1	-57.3			298.7	572.4	285.0	6.7	1.000067
42000.0	180.7	-57.2			291.5	572.4	257.7	10.1	1.000065
42500.0	176.3	-58.2			285.7	571.2	247.1	14.8	1.000064
43000.0	172.1	-59.1			280.1	570.0	245.5	18.8	1.000062
43500.0	168.0	-60.0			274.6	568.8	254.1	20.5	1.000061

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

STATION ALTITUDE 4126.59 FEET MSL
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UPPER AIR DATA
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 TABLE 11 cont'

GEODETIC COORDINATES
 32.88865 LAT DEG
 106.09965 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
44000.0	164.0	-60.9		269.2	567.5	261.4	22.6	1.000060
44500.0	160.0	-61.9		263.9	566.3	271.3	22.9	1.000059
45000.0	156.2	-62.3		258.0	565.7	281.4	23.6	1.000057
45500.0	152.4	-62.5		252.0	565.4	290.2	24.9	1.000056
46000.0	148.7	-62.8		246.2	565.1	297.9	26.7	1.000055
46500.0	145.1	-62.9		240.3	564.9	301.7	28.8	1.000054
47000.0	141.5	-63.0		234.7	564.7	299.5	31.3	1.000052
47500.0	138.1	-63.2		229.1	564.5	297.6	33.8	1.000051
48000.0	134.7	-63.3		223.7	564.3	301.4	37.6	1.000050
48500.0	131.4	-63.5		218.4	564.1	305.0	41.9	1.000049
49000.0	128.2	-63.6		213.2	563.9	308.8	45.4	1.000047
49500.0	125.1	-63.7		208.0	563.8	313.1	48.0	1.000046
50000.0	122.0	-63.7		203.0	563.8	316.6	50.6	1.000045
50500.0	119.1	-63.8		198.1	563.7	316.5	49.8	1.000044
51000.0	116.2	-63.9		193.4	563.5	316.4	49.0	1.000043
51500.0	113.3	-64.3		189.0	563.0	317.9	47.7	1.000042
52000.0	110.5	-64.7		184.7	562.5	319.7	46.4	1.000041
52500.0	107.8	-63.4		179.1	564.2	321.7	41.7	1.000040
53000.0	105.2	-61.7		173.4	566.5	324.3	35.9	1.000039
53500.0	102.7	-61.2		168.8	567.1	322.9	29.3	1.000038
54000.0	100.2	-60.7		164.4	567.8	313.7	22.2	1.000037
54500.0	97.8	-61.4		160.8	566.9	296.7	16.5	1.000036
55000.0	95.4	-62.2		157.5	565.8	274.7	17.3	1.000035
55500.0	93.0	-63.0		154.2	564.7	256.9	20.2	1.000034
56000.0	90.7	-63.8		151.0	563.7	251.5	22.6	1.000034
56500.0	88.5	-64.6		147.9	562.6	250.4	24.2	1.000033
57000.0	86.3	-65.4		144.8	561.5	250.7	24.7	1.000032
57500.0	84.2	-66.2		141.8	560.5	255.4	22.0	1.000032
58000.0	82.2	-67.0		138.8	559.4	261.2	19.6	1.000031
58500.0	80.2	-67.8		136.0	558.3	268.0	16.5	1.000030
59000.0	78.2	-68.6		133.1	557.2	277.6	13.5	1.000030
59500.0	76.3	-68.3		129.6	557.6	288.7	11.2	1.000029
60000.0	74.4	-67.5		125.9	558.7	292.2	10.0	1.000028
60500.0	72.5	-67.1		122.6	559.2	296.6	8.8	1.000027
61000.0	70.7	-68.5		120.4	557.3	301.4	9.4	1.000027
61500.0	68.9	-66.4		116.2	560.2	305.0	10.6	1.000026
62000.0	67.2	-65.3		112.7	561.7	308.0	11.9	1.000025
62500.0	65.6	-65.7		110.2	561.1	310.4	13.2	1.000025
63000.0	64.0	-65.7		107.4	561.1	312.4	14.6	1.000024
63500.0	62.4	-65.3		104.6	561.7	313.6	14.2	1.000023

UPPER AIR DATA
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 HOLLoman
 TABLE 11 cont'

STATION ALTITUDE 4126.59 FEET MSL
 19 FEB. 81 1050 HRS MST
 ASCENSION NO. 31

GEODETIC COORDINATES
 32.88865 LAT DEG
 106.09965 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
64000.0	60.9	-64.8			101.9	562.3	314.8	13.4	1.000023
64500.0	59.4	-64.4			99.2	562.9	315.7	12.4	1.000022
65000.0	58.0	-64.0			96.6	563.5	315.3	10.9	1.000022
65500.0	56.6	-63.5			94.0	564.0	314.9	9.5	1.000021
66000.0	55.2	-63.1			91.5	564.6	315.8	9.2	1.000020
66500.0	53.8	-62.7			89.1	565.2	317.1	9.1	1.000020
67000.0	52.5	-62.3			86.8	565.8	318.9	9.0	1.000019
67500.0	51.2	-61.8			84.5	566.3	324.8	8.2	1.000018
68000.0	50.0	-61.4			82.3	566.9	332.1	7.4	1.000018
68500.0	48.8	-61.2			80.2	567.2	338.2	7.0	1.000017
69000.0	47.6	-60.9			78.2	567.5	341.7	7.0	1.000017
69500.0	46.5	-60.7			76.2	567.8	345.2	6.9	1.000017
70000.0	45.4	-60.5			74.3	568.2	344.6	7.1	1.000017
70500.0	44.3	-60.2			72.5	568.5	342.6	7.4	1.000016
71000.0	43.2	-60.0			70.6	568.8	340.7	7.7	1.000016
71500.0	42.2	-59.8			68.9	569.1	336.1	7.5	1.000015
72000.0	41.2	-59.5			67.1	569.4	331.2	7.4	1.000015
72500.0	40.2	-59.3			65.5	569.7	322.0	7.3	1.000015
73000.0	39.2	-58.8			63.8	570.4	303.9	8.1	1.000014
73500.0	38.3	-58.3			62.1	571.0	290.0	9.4	1.000014
74000.0	37.4	-57.9			60.5	571.6	282.0	10.7	1.000013
74500.0	36.5	-57.4			59.0	572.3	281.3	10.6	1.000013
75000.0	35.7	-56.9			57.5	572.9	280.7	10.6	1.000013
75500.0	34.8	-56.4			56.0	573.5	281.4	10.2	1.000012
76000.0	34.0	-55.9			54.6	574.2	289.5	8.6	1.000012
76500.0	33.2	-55.5			53.2	574.8	301.0	7.2	1.000012
77000.0	32.4	-55.0			51.8	575.4	314.0	6.3	1.000012
77500.0	31.7	-54.5			50.5	576.1	310.3	6.4	1.000011
78000.0	30.9	-54.0			49.2	576.7	306.7	6.5	1.000011
78500.0	30.2	-53.5			47.9	577.3	303.2	6.6	1.000011
79000.0	29.5	-52.9			46.7	578.2	300.4	6.4	1.000010
79500.0	28.8	-52.1			45.4	579.2	297.5	6.3	1.000010
80000.0	28.2	-51.4			44.2	580.1	294.5	6.1	1.000010
80500.0	27.5	-50.7			43.1	581.1	302.2	6.1	1.000010
81000.0	26.9	-50.0			42.0	582.0	310.3	6.2	1.000009
81500.0	26.3	-50.1			41.0	581.8	318.0	6.4	1.000009
82000.0	25.7	-50.3			40.1	581.6	318.1	7.4	1.000009
82500.0	25.1	-50.4			39.2	581.4	317.0	8.5	1.000009
83000.0	24.5	-50.5			38.3	581.3	316.2	9.6	1.000009
83500.0	23.9	-50.7			37.5	581.1	310.1	10.7	1.000008

UPPER AIR DATA
 0500010031
 HOLLOWMAN
 TABLE 11 cont'

STATION ALTITUDE 4126.59 FEET MSL
 19 FEB. 81 1050 HRS MST
 ASCENSION NO. 31

GEODETIC COORDINATES
 32.88865 LAT DEG
 106.09965 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
							DIRECTION DEGREES(TN)	SPEED KNOTS	
84000.0	23.4	-50.8			36.6	580.9	300.5	12.0	1.000008
84500.0	22.8	-50.9			35.8	580.7	292.9	13.6	1.000008
85000.0	22.3	-51.1			35.0	580.6	287.3	15.4	1.000008
85500.0	21.8	-51.2			34.2	580.4	286.7	16.1	1.000008
86000.0	21.3	-51.3			33.5	580.2	286.3	16.9	1.000007
86500.0	20.8	-51.5			32.7	580.0	285.8	17.6	1.000007
87000.0	20.3	-51.6			32.0	579.9	287.9	17.7	1.000007
87500.0	19.9	-51.7			31.3	579.7	291.9	17.3	1.000007
88000.0	19.4	-51.7			30.5	579.6	296.0	17.0	1.000007
88500.0	19.0	-51.7			29.8	579.8	299.9	17.0	1.000007
89000.0	18.5	-51.7			29.1	579.8	301.1	18.2	1.000006
89500.0	18.1	-51.6			28.5	579.8	302.2	19.4	1.000006
90000.0	17.7	-51.6			27.8	579.8	303.1	20.6	1.000006
90500.0	17.3	-51.6			27.2	579.9	303.4	21.0	1.000006
91000.0	16.9	-51.2			26.5	580.4	303.3	21.1	1.000006
91500.0	16.5	-50.5			25.8	581.4	303.2	21.1	1.000006
92000.0	16.1	-49.7			25.2	582.3	303.2	21.2	1.000006
92500.0	15.8	-49.0			24.5	583.3	303.6	21.1	1.000005
93000.0	15.4	-48.2			23.9	584.3	304.1	21.1	1.000005
93500.0	15.1	-47.5			23.3	585.2	304.5	21.1	1.000005
94000.0	14.7	-46.8			22.7	586.2	303.1	22.7	1.000005
94500.0	14.4	-46.0			22.1	587.1	301.3	24.9	1.000005
95000.0	14.1	-45.3			21.5	588.1	299.8	27.3	1.000005
95500.0	13.7	-44.5			21.0	589.0	298.3	29.2	1.000005
96000.0	13.4	-43.8			20.4	590.0	295.9	29.6	1.000005
96500.0	13.1	-43.4			19.9	590.5	293.7	30.0	1.000004
97000.0	12.9	-43.1			19.5	590.9	291.5	30.5	1.000004
97500.0	12.6	-42.7			19.0	591.4	288.4	28.9	1.000004
98000.0	12.3	-42.4			18.6	591.8	284.1	26.2	1.000004
98500.0	12.0	-42.0			18.1	592.3	278.8	23.7	1.000004
99000.0	11.8	-41.7			17.7	592.7			1.000004
99500.0	11.5	-41.3			17.3	593.1			1.000004
100000.0	11.2	-41.0			16.9	593.6			1.000004
100500.0	11.0	-40.7			16.5	594.0			1.000004
101000.0	10.8	-40.3			16.1	594.4			1.000004

STATION ALTITUDE 4126.59 FEET MSL
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MANDATORY LEVELS
 0500010031
 HOLLOWMAN
 TABLE 12

GEODETIC COORDINATES
 32.88865 LAT DEG
 106.09965 LON DEG

PRESSURE GEOPOTENTIAL MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	WIND DATA	
				DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	15.0	-2.4	30.	333.6	7.1
800.0	11.1	-5.9	30.	344.9	5.2
750.0	10.0	-10.6	23.	341.1	4.3
700.0	5.5	-13.9	23.	201.1	4.0
650.0	3.0	-17.1	21.	95.6	6.9
600.0	-8	-20.1	21.	77.8	14.5
550.0	-6.6	-24.3	23.	48.4	4.7
500.0	-13.9	-30.5	23.	30.7	5.2
450.0	-20.6	-34.5	27.	27.6	15.9
400.0	-28.1	-39.6	32.	30.1	11.8
350.0	-35.2	-46.5	30.	27.0	15.5
300.0	-44.7			10.2	18.7
250.0	-52.0			352.4	17.5
200.0	-58.6			355.4	11.3
175.0	-58.5			245.2	16.2
150.0	-62.7			294.9	25.9
125.0	-63.7			313.1	48.0
100.0	-60.7			313.2	22.0
80.0	-67.8			268.3	16.4
70.0	-67.8			302.7	9.8
60.0	-64.6			315.5	13.0
50.0	-61.4			331.6	7.4
40.0	-59.2			319.6	7.4
30.0	-53.4			302.7	6.5
25.0	-50.4			317.0	8.5
20.0	-51.7			290.5	17.4
15.0	-47.4			304.5	21.1

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

DATE
FILMED
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