

AD-A103 673 ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2
12821A LANCE, MISSILE NUMBER 4572, ROUND NUMBER 367-MCL, 16 JUL--ETC(1)
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 12821A LANCE, Missile Number 4572, Round Number 367-MCL presented in tabular form.		

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INTRODUCTION

12821A LANCE, Missile Number 4572, Round Number 367-MCL,
was launched from RATSCAT, White Sands Missile Range (WSMR), New Mexico,
at 1000 MDT on 16 Jul 1981. The scheduled launch time was
1000 MDT.

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 RATSCAT Met Site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in was provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from Double Theodolite Pilot-Balloon observations at:

SITE AND ALTITUDE

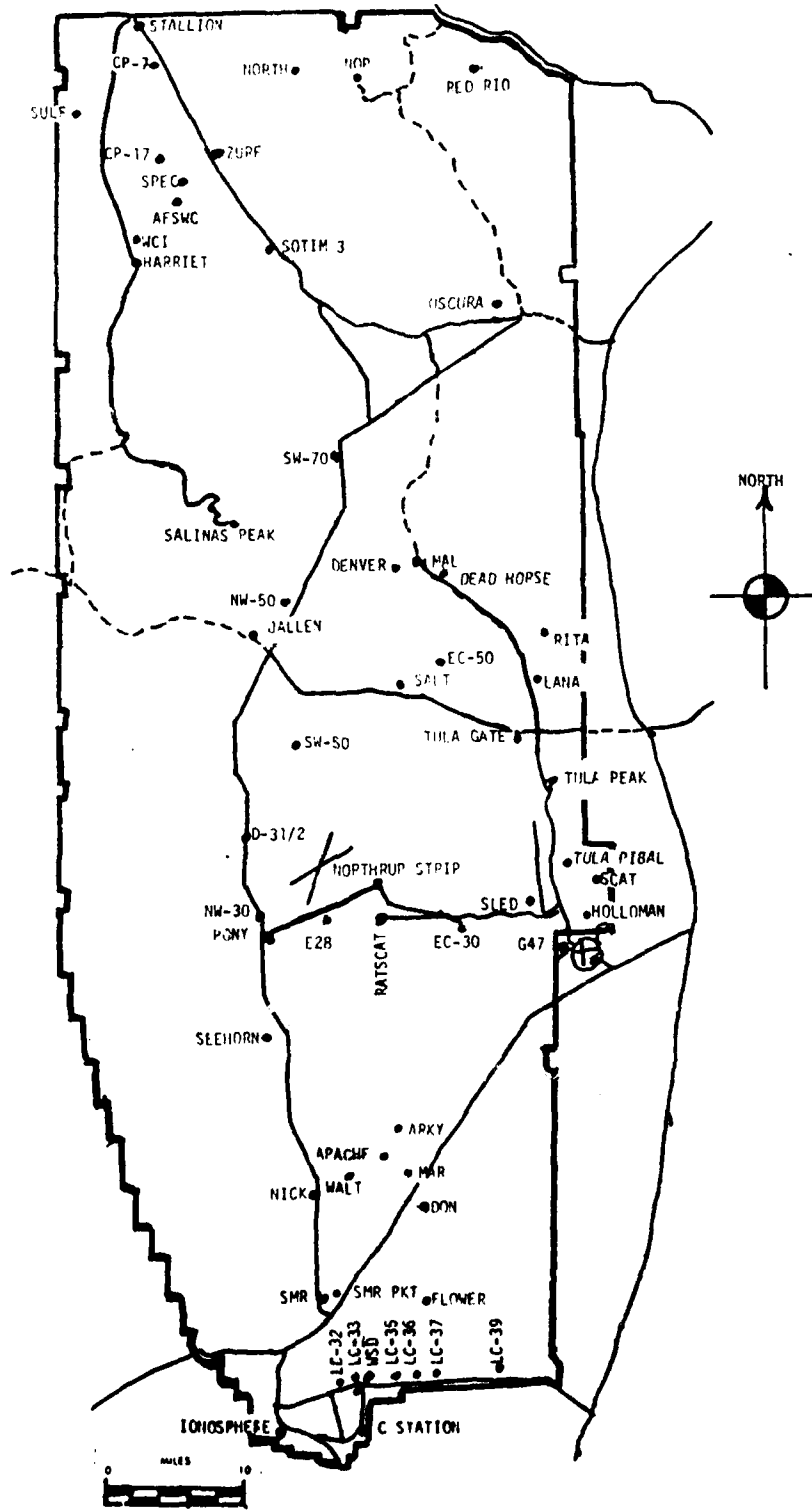
RATSCAT	T-10 mins to 1140 Meters
	T-0 mins to 2100 meters

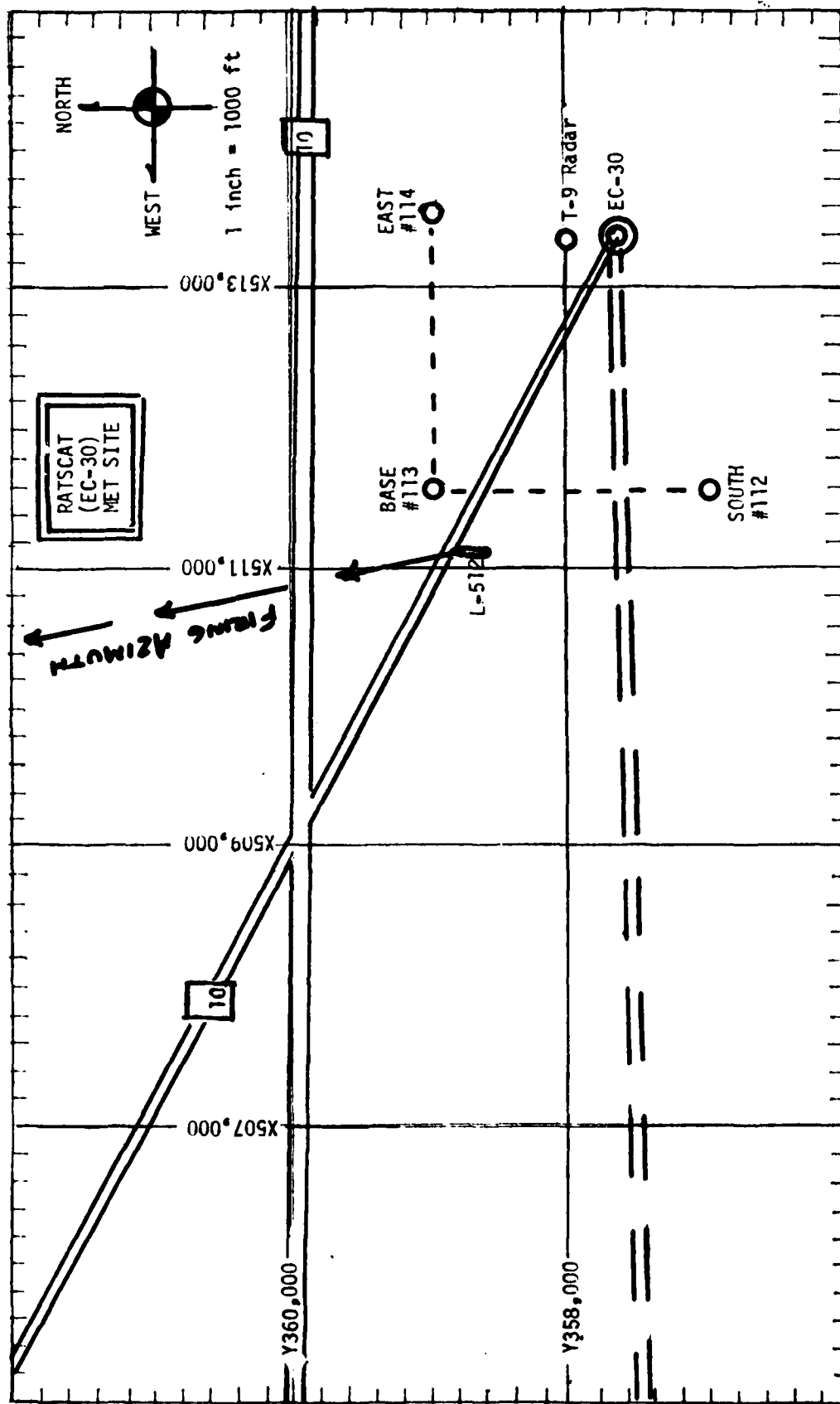
(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to high as possible in 500-foot increments.

SITE AND TIME

JAL	0630 MDT
JAL	0950 MDT
HMS	0950 MDT

WSMR METEOROLOGICAL SITES





PROJECT SURFACE OBSERVATION

TABLE 1		STATION RATSCAT								
DATE 16 July 81		X= 511,590.12 Y= 358,916.11 H= 3953.19								
TIME M D I	DAY MONTH YEAR	PRESSURE mbs	TEMPERATURE OF °C	DEW POINT OF °C	RELATIVE HUMIDITY %	DENSITY gm/m ³	DIRECTION degs In	WIND SPEED kts	CHARACTER kts	VISIBIL- ITY
1000		880.1	26.8	21.0	71	1007		CALM		50

OBSTRUCTIONS TO VISIBILITY	CLOUDS						REMARKS
	1st LAYER		2nd LAYER		3rd LAYER		
	AMT	HGT	AMT	HGT	AMT	HGT	
1	CU	7000	2	CI	20000		

PSYCHROMETRIC COMPUTATION

TIME:	1000
DRY BULB TEMP.	26.8
WET BULB TEMP.	22.5
WET BULB DEPR.	4.3
DEW POINT	21.0
RELATIVE HUMID.	71

PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM RATSCAT DATE 16 July 1981 TIME 0950 MDT

COORDINATES (WSTM) X= 511,590.12 Y= 358,916.11 H= 3953.19

NOTE: WIND DIRECTIONS ARE REFERENCED TO D/T

HEIGHTS ARE METERS AGL X OR FEET AGL _____.

[illegible][illegible][illegible]

PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM RATSCAT DATE 16 July 1981 TIME 1000 MDT

COORDINATES (WSTM) X= 511,590.12 Y= 358,917.11 H= 3953.11

NOTE: WIND DIRECTIONS ARE REFERENCED TO D/T

HEIGHTS ARE METERS AGL X OR FEET AGL .

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
SFC		CALM
60	217	01
120	209	02
180	197	03
240	189	04
300	184	06
360	180	07
420	177	09
480	178	10
540	182	10
600	189	10
660	198	08
720	202	07
780	194	07
840	190	08
900	187	09
960	186	10
1020	180	10
1080	172	11
1140	165	11
1200	163	11
1260	162	11
1320	160	10
1380	161	09
1440	161	09
1500	161	09
1560	160	09
1620	160	08

[illegible][illegible]

COMPUTER MET MESSAGES

HMS 0950 MDT
METCM1329061
161590126876

00320002	30040876
01322088	30030866
02297010	29780842
03328013	29530804
04298008	29199758
05306005	28830715
06410005	28460674
07390012	28090634
08385012	27700597
09399008	27410561
10344003	27050527
11343007	26670495
12367009	26280449
13372008	25740394
14274006	25010344
15264010	24230300
16294010	23450260
17338009	22660224
18587007	21880193
19064009	21110164
20172012	20640140
21314011	20420118
22190011	20540100
23191015	20662085
24184022	20860072
25191020	01310062
26182020	21620053

JAL 0950 MDT
METCM1332065
161590124875

00000000	30190875
01296004	29960865
02304003	29700841
03267007	29430803
04341008	29090758
05318009	28730714
06573006	28400673
07373010	28060633
08402012	27670596
09411012	27400560
10398008	27070526
11356012	26700494
12359009	27230448
13376013	25750393
14307009	25020344
15301011	24250300
16286013	23410260
17338008	22630224
18605004	21880192
19034010	21270164
20069005	20650140
21243012	20320118
22226010	20560100
23201010	20560085
24193019	20680072
25180028	21200061
26161018	21540052

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

SIGNIFICANT LEVEL DATA
 1-700,0071
 JALLEN

STATION ALTITUDE 9651.00 FEET
 16 JULY 1 0630 hrs MDT
 ASCENDING NO. 71

TABLE 5

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
676.1	4051.0	20.2	13.4	65.0
673.0	4132.2	20.4	14.3	68.0
660.0	4580.1	22.6	14.7	61.0
650.0	4914.7	21.8	13.4	59.0
765.2	7894.3	17.6	4.0	57.0
700.0	10373.7	11.8	4.5	61.0
668.4	11640.9	9.4	3.4	66.0
635.4	13015.4	6.0	1.5	73.0
596.6	14702.5	2.1	-5.1	59.0
583.0	15313.9	.8	-3.8	71.0
565.8	16105.1	.2	-7.0	63.0
540.0	17302.9	-1.9	-7.0	68.0
524.2	18107.2	-3.6	-6.4	81.0
512.6	18687.5	-5.6	-7.4	87.0
507.6	18940.7	-5.6	-8.2	82.0
500.0	19330.1	-6.0	-10.0	70.0
483.8	20177.6	-7.2	-9.3	65.0
456.4	21660.7	-10.0	-11.7	67.0
449.2	22069.0	-12.2	-13.1	93.0
441.6	22498.6	-12.4	-13.3	93.0
426.6	23360.7	-13.4	-14.5	91.0
416.4	23793.1	-13.8	-17.7	72.0
407.4	24516.7	-15.8	-19.2	75.0
400.0	24971.1	-16.7	-21.7	65.0
378.8	26310.2	-19.8	-23.1	75.0
369.4	26922.5	-21.3	-25.0	72.0
365.2	27200.2	-21.5	-24.5	48.0
344.6	28604.0	-23.4	-33.2	40.0
331.4	29539.6	-26.2	-33.7	49.0
300.0	31884.6	-31.6	-47.4	19.0
250.0	36040.5	-42.1	-49.6	42.0
200.0	40880.1	-54.7		
180.8	42084.4	-59.6		
171.6	44037.3	-59.5		
150.0	46794.8	-65.3		
131.0	49483.0	-70.6		
113.8	52245.6	-69.4		
100.8	54627.5	-70.5		
100.0	54784.0	-69.4		
91.6	56523.4	-66.6		

STATION ALTITUDE 4051.00 FEET MSL
16 JULY 61 0630 HRS MDT
ASCENSION NO. 71

SIGNIFICANT LEVEL DATA
1970030071
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 5 (con't)

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
83.0	58403.8	-68.4		
77.6	59819.5	-67.2		
74.8	60556.7	-64.2		
70.0	61093.0	-65.4		
67.0	62773.8	-65.1		
60.0	65029.2	-58.6		
53.0	67598.4	-59.6		
50.0	68809.8	-57.0		
30.0	79644.4	-51.2		
24.0	84448.9	-50.7		
20.0	88425.6	-45.6		
14.6	95459.9	-39.8		

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

UPPER AIR DATA
197003.071
JALLEN

STATION ALTITUDE 4651.89 FEET MSL
16 JULY 61 0630 HRS MDT
ASCENSION NO. 71

TABLE 6

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KNOTS	IND. DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES (TN)	SPEED KNOTS	
4051.0	870.1	20.2	13.4	65.0	1033.5	669.5	.0	.0	1.000298
4500.0	862.4	22.2	14.6	62.3	1009.8	672.0	170.2	.8	1.000298
5000.0	847.4	21.7	13.3	58.9	994.5	671.2	170.2	1.7	1.000288
5500.0	832.6	21.0	12.6	58.6	979.7	670.4	170.2	2.7	1.000282
6000.0	816.1	20.3	11.8	58.3	965.0	669.5	170.0	3.2	1.000276
6500.0	803.8	19.6	11.1	57.9	950.6	668.6	150.5	3.2	1.000270
7000.0	789.7	18.9	10.3	57.6	936.5	667.7	157.1	3.1	1.000265
7500.0	775.9	18.2	9.6	57.3	922.5	666.9	148.6	3.2	1.000259
8000.0	762.3	17.4	8.8	57.2	909.0	665.9	201.0	5.0	1.000254
8500.0	746.7	16.2	7.9	58.0	896.8	664.5	204.4	7.2	1.000248
9000.0	735.4	15.0	7.0	58.8	884.5	663.0	202.3	6.8	1.000243
9500.0	722.3	13.8	6.1	59.6	872.4	661.6	202.2	6.5	1.000238
10000.0	709.5	12.7	5.2	60.4	860.6	660.2	209.7	6.6	1.000233
10500.0	696.8	11.6	4.4	61.5	848.7	658.9	215.8	7.6	1.000228
11000.0	684.2	10.6	4.0	63.5	836.2	657.7	218.7	9.7	1.000225
11500.0	671.8	9.7	3.5	65.4	823.9	656.6	219.9	11.7	1.000221
12000.0	659.6	8.5	2.9	67.8	812.3	655.2	220.2	13.7	1.000217
12500.0	647.6	7.3	2.3	70.4	801.1	653.8	218.1	14.9	1.000213
13000.0	635.8	6.0	1.6	72.9	790.1	652.3	215.2	15.8	1.000209
13500.0	624.0	4.9	-3	69.0	779.0	650.8	211.7	16.3	1.000203
14000.0	612.5	3.7	-2.3	64.8	767.1	649.3	208.2	16.8	1.000197
14500.0	601.1	2.6	-4.2	60.7	757.4	647.8	209.2	16.4	1.000191
15000.0	589.9	1.5	-4.4	64.8	746.3	646.5	212.0	15.8	1.000188
15500.0	578.9	.7	-4.3	69.1	734.4	645.6	221.7	14.7	1.000186
16000.0	568.1	.3	-5.7	64.1	721.8	645.1	231.6	13.6	1.000181
16500.0	557.4	-5	-6.3	64.6	710.3	644.1	242.3	12.5	1.000178
17000.0	546.9	-1.4	-6.7	66.7	699.2	643.1	250.5	10.8	1.000175
17500.0	536.5	-2.3	-6.8	71.2	688.3	642.0	257.6	8.5	1.000172
18000.0	526.4	-3.4	-6.4	79.3	677.8	640.7	259.6	5.8	1.000171
18500.0	516.3	-5.0	-7.1	85.1	668.9	638.8	254.7	2.9	1.000168
19000.0	506.4	-5.7	-8.5	80.2	658.0	637.9	221.8	1.4	1.000164
19500.0	496.7	-6.2	-10.3	73.0	646.9	637.1	156.3	1.6	1.000159
20000.0	487.2	-6.9	-9.5	81.9	636.0	636.4	159.2	2.1	1.000158
20500.0	477.7	-7.8	-9.8	85.4	625.8	635.3	163.8	2.6	1.000155
21000.0	468.5	-8.7	-10.6	86.1	615.9	634.2	177.1	3.4	1.000152
21500.0	459.4	-9.7	-11.5	86.8	606.2	633.0	182.2	4.2	1.000149
22000.0	450.4	-11.8	-12.9	92.0	596.3	630.4	177.7	4.6	1.000146
22500.0	441.6	-12.4	-13.3	93.0	586.8	629.7	174.8	4.8	1.000143
23000.0	432.9	-13.0	-14.0	91.8	576.0	629.0	173.7	4.5	1.000140
23500.0	424.3	-13.5	-15.5	85.1	566.4	628.2	178.0	4.1	1.000137

STATION ALTITUDE 4051.00 FEET MSL
16 JULY 81
ASCENSION NO. 71

UPPER AIR DATA
197003.071
JALLEN

GEODETIC COORDINATES
33.16712 LAT UEG
106.49511 LON UEG

TABLE 6 Con't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
24000.0	415.9	-14.4	-18.1	72.9	554.2	627.1	193.8	3.9	1.000133
24500.0	407.7	-15.8	-19.2	74.9	551.1	625.4	204.2	3.9	1.000130
25000.0	399.5	-16.8	-21.7	65.2	542.3	624.1	205.7	3.6	1.000127
25500.0	391.5	-17.9	-22.2	68.9	533.8	622.7	207.0	3.4	1.000125
26000.0	383.6	-19.1	-22.7	72.7	525.5	621.3	209.9	3.3	1.000123
26500.0	375.9	-20.3	-23.7	74.1	517.3	619.8	207.1	3.4	1.000121
27000.0	368.2	-21.4	-26.1	65.3	509.1	618.4	200.3	3.7	1.000118
27500.0	360.7	-21.9	-30.3	46.3	499.9	617.7	186.0	4.2	1.000114
28000.0	353.3	-22.6	-31.6	43.4	491.0	616.8	171.1	5.1	1.000112
28500.0	346.1	-23.3	-32.9	40.6	482.3	616.0	165.4	5.8	1.000110
29000.0	338.9	-24.6	-33.3	43.8	474.8	614.3	162.6	6.3	1.000108
29500.0	331.9	-26.1	-33.7	48.6	467.9	612.5	163.9	6.7	1.000106
30000.0	325.0	-27.3	-35.9	43.1	460.3	611.0	166.3	7.0	1.000104
30500.0	318.2	-28.4	-38.6	36.7	452.8	609.5	155.2	6.8	1.000102
31000.0	311.5	-29.6	-41.4	30.3	445.4	608.1	140.3	6.9	1.000100
31500.0	304.9	-30.7	-44.6	23.9	438.1	606.6	131.6	6.3	1.000098
32000.0	298.5	-31.9	-47.4	19.6	431.0	605.1	122.9	5.5	1.000097
32500.0	292.0	-33.2	-47.3	22.4	423.8	603.6	121.6	4.1	1.000095
33000.0	285.7	-34.4	-47.4	25.2	416.8	602.0	129.6	2.3	1.000093
33500.0	279.5	-35.7	-47.6	27.9	409.9	600.4	138.2	1.5	1.000092
34000.0	273.4	-36.9	-47.9	30.7	403.2	598.8	137.9	1.5	1.000090
34500.0	267.5	-38.2	-48.3	33.5	396.6	597.2	145.0	1.8	1.000089
35000.0	261.7	-39.5	-48.7	36.2	390.1	595.6	153.8	2.6	1.000087
35500.0	256.0	-40.7	-49.2	39.0	383.7	593.9	150.0	3.3	1.000086
36000.0	250.4	-42.0	-49.8	41.8	377.4	592.3	152.8	3.5	1.000085
36500.0	244.8	-43.3	-51.8	38.0**	370.9	590.7	149.9	3.7	1.000083
37000.0	239.2	-44.6	-54.0	33.7**	364.5	589.0	158.1	5.9	1.000081
37500.0	233.7	-45.9	-56.3	29.3**	358.3	587.3	162.1	8.3	1.000080
38000.0	228.4	-47.2	-58.7	25.0**	352.1	585.6	166.0	11.1	1.000079
38500.0	223.2	-48.5	-61.3	20.7**	346.1	583.9	168.9	14.3	1.000077
39000.0	218.1	-49.8	-64.2	16.3**	340.2	582.2	172.7	15.6	1.000076
39500.0	213.1	-51.1	-67.5	12.0**	334.4	580.5	178.8	15.0	1.000075
40000.0	208.3	-52.4	-71.6	7.6**	328.7	578.8	185.6	14.6	1.000073
40500.0	203.5	-53.7	-78.1	3.3**	323.1	577.1	193.1	14.5	1.000072
41000.0	198.9	-55.0			317.5	575.4	200.6	14.6	1.000071
41500.0	194.1	-56.1			311.7	573.9	206.0	14.1	1.000069
42000.0	189.5	-57.3			305.9	572.4	211.7	13.8	1.000068
42500.0	185.0	-58.5			300.3	570.8	212.0	10.9	1.000067
43000.0	180.7	-59.6			294.7	569.3	271.2	10.1	1.000066
43500.0	176.3	-59.6			287.6	569.4	277.4	12.8	1.000064

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

STATION ALTITUDE 4051.00 FEET MSL
16 JULY 61
ASCENSION NO. 71 0630 HRS MST

UPPER AIR DATA
197003071
JALLEN

GEODETIC COORDINATES
33.16712 LAT UEG
106.49511 LONG DEG

TABLE 6 Con't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (IN) DEGREES (IN)	INDEX OF REFRACTION
44000.0	172.1	-59.5		280.6	569.4	300.9	1.000063
44500.0	167.9	-60.5		275.1	566.1	313.6	1.000061
45000.0	163.9	-61.5		269.7	560.7	313.4	1.000060
45500.0	159.9	-62.6		264.5	565.3	313.1	1.000059
46000.0	156.0	-63.6		259.4	563.9	320.5	1.000058
46500.0	152.2	-64.7		254.4	562.5	347.1	1.000057
47000.0	148.5	-65.7		249.3	561.1	0.0	1.000056
47500.0	144.8	-66.7		244.3	559.8	51.8	1.000054
48000.0	141.2	-67.7		239.4	558.4	71.2	1.000053
48500.0	137.7	-68.7		234.5	557.1	93.3	1.000052
49000.0	134.2	-69.6		229.8	555.8	105.7	1.000051
49500.0	130.9	-70.6		225.1	554.5	111.5	1.000050
50000.0	127.6	-70.4		219.2	554.8	119.6	1.000049
50500.0	124.4	-70.2		213.5	555.1	129.7	1.000048
51000.0	121.3	-69.9		207.9	555.4	141.9	1.000046
51500.0	118.2	-69.7		202.4	555.6	168.8	1.000045
52000.0	115.2	-69.5		197.1	555.9	194.2	1.000044
52500.0	112.3	-69.5		192.2	555.9	202.7	1.000043
53000.0	109.5	-69.7		187.6	555.6	203.7	1.000042
53500.0	106.8	-70.0		183.0	555.3	193.7	1.000041
54000.0	104.1	-70.2		178.7	555.0	171.4	1.000040
54500.0	101.5	-70.4		174.4	554.7	150.9	1.000039
55000.0	98.9	-69.1		168.8	550.0	144.8	1.000038
55500.0	96.5	-68.2		164.0	557.7	135.2	1.000037
56000.0	94.1	-67.4		159.3	558.8	119.0	1.000035
56500.0	91.7	-66.6		154.7	559.8	102.0	1.000034
57000.0	89.4	-67.0		151.2	559.3	95.4	1.000033
57500.0	87.2	-67.5		147.7	558.7	91.7	1.000032
58000.0	85.0	-68.0		144.4	558.1	89.2	1.000031
58500.0	82.9	-68.4		141.1	557.5	87.0	1.000030
59000.0	80.9	-67.9		137.5	558.1	85.5	1.000029
59500.0	78.9	-67.5		133.6	558.7	74.1	1.000028
60000.0	76.9	-66.5		129.6	560.1	73.1	1.000027
60500.0	75.0	-64.4		125.2	562.8	70.1	1.000026
61000.0	73.2	-64.6		122.2	562.6	68.1	1.000025
61500.0	71.4	-65.0		119.5	562.0	60.8	1.000024
62000.0	69.6	-65.4		116.7	561.3	52.6	
62500.0	67.9	-65.2		113.8	561.8		
63000.0	66.3	-64.4		110.6	562.6		
63500.0	64.7	-63.0		107.2	564.7		

STATION ALTITUDE 4051.00 FEET MSL
14 JULY 81 0630 HRS MDT
ASCENSION NO. 71

UPPER AIR DATA
19700310071
JALLEN

GEODETIC COORDINATES
33.16712 LAT UEG
106.49511 LONG UEG

TABLE 6 Con't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
04000.0	62.1	-61.6			103.9	500.7	85.8	25.6	1.000023
04500.0	61.6	-60.1			100.7	508.6	89.0	28.6	1.000022
05000.0	60.1	-58.7			97.6	570.5	91.7	31.7	1.000022
05500.0	58.7	-58.8			95.3	570.4	90.2	32.6	1.000021
06000.0	57.3	-59.0			93.1	570.1	100.8	33.4	1.000021
06500.0	55.9	-59.2			91.0	569.9	104.4	33.3	1.000020
07000.0	54.6	-59.4			88.9	569.6	105.2	29.9	1.000020
07500.0	53.3	-59.6			86.9	569.4	105.2	26.5	1.000019
08000.0	52.0	-58.7			84.5	570.5	104.9	24.9	1.000019
08500.0	50.8	-57.7			82.0	571.9	102.0	24.4	1.000018
09000.0	49.6	-56.9			79.8	572.9	99.0	24.0	1.000018
09500.0	48.4	-56.6			77.9	573.2	96.9	23.9	1.000017
70000.0	47.3	-56.4			76.0	573.6	94.9	23.7	1.000017
70500.0	46.2	-56.1			74.1	574.0	92.9	23.5	1.000016
71000.0	45.1	-55.8			72.3	574.3	90.8	23.0	1.000016
71500.0	44.0	-55.6			70.5	574.7	88.5	22.4	1.000016
72000.0	43.0	-55.3			68.8	575.0	87.0	22.4	1.000015
72500.0	42.0	-55.0			67.1	575.4	86.9	23.2	1.000015
73000.0	41.0	-54.8			65.5	575.7	86.8	24.0	1.000015
73500.0	40.1	-54.5			63.9	576.1	86.8	24.3	1.000014
74000.0	39.1	-54.2			62.3	576.4	86.9	24.2	1.000014
74500.0	38.2	-54.0			60.8	576.8	87.0	24.1	1.000014
75000.0	37.3	-53.7			59.3	577.1	87.2	24.1	1.000013
75500.0	36.5	-53.4			57.8	577.5	87.6	24.1	1.000013
76000.0	35.6	-53.2			56.4	577.8	88.0	24.1	1.000013
76500.0	34.8	-52.9			55.0	578.2	87.6	24.3	1.000012
77000.0	34.0	-52.6			53.7	578.5	85.9	25.1	1.000012
77500.0	33.2	-52.3			52.4	578.9	84.3	25.8	1.000012
78000.0	32.4	-52.1			51.1	579.2	83.2	26.7	1.000011
78500.0	31.7	-51.8			49.8	579.6	84.1	28.2	1.000011
79000.0	30.9	-51.5			48.6	579.9	85.0	29.7	1.000011
79500.0	30.2	-51.3			47.4	580.3	85.8	31.2	1.000011
80000.0	29.5	-51.2			46.3	580.4	88.7	31.4	1.000010
80500.0	28.8	-51.1			45.2	580.5	91.7	31.6	1.000010
81000.0	28.2	-51.1			44.2	580.6	94.6	31.8	1.000010
81500.0	27.5	-51.0			43.2	580.6	95.7	31.9	1.000010
82000.0	26.9	-51.0			42.2	580.7	96.0	31.9	1.000009
82500.0	26.3	-50.9			41.2	580.8	96.3	31.8	1.000009
83000.0	25.7	-50.9			40.2	580.9	95.5	32.6	1.000009
83500.0	25.1	-50.8			39.3	580.9	93.6	34.3	1.000009

STATION ALTITUDE 4051.00 FEET MSL
16 JULY 61 06 30 HRS MST
ASCENSION NO. 71

UPPER AIR DATA
1970030071
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

TABLE 6 Con't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	INDEX OF REFRACTION
04000.0	24.5	-50.7		30.4	561.0	91.9	1.000009
04500.0	23.9	-50.6		37.5	561.1	90.4	1.000008
05000.0	23.4	-50.0		36.5	562.0	89.5	1.000008
05500.0	22.9	-49.4		35.6	562.8	88.6	1.000008
06000.0	22.4	-48.7		34.7	563.6	87.8	1.000008
06500.0	21.8	-48.1		33.8	564.5	87.6	1.000008
07000.0	21.4	-47.4		33.0	565.3	87.5	1.000007
07500.0	20.9	-46.8		32.1	566.1	87.4	1.000007
08000.0	20.4	-46.1		31.3	567.0	87.0	1.000007
08500.0	19.9	-45.5		30.5	567.7	86.6	1.000007
09000.0	19.5	-45.1		29.8	568.3	86.1	1.000007
09500.0	19.1	-44.7		29.1	568.8	85.4	1.000006
10000.0	18.6	-44.3		28.4	569.3	85.5	1.000006
10500.0	18.2	-43.9		27.7	569.9	90.4	1.000006
11000.0	17.8	-43.5		27.0	590.4	92.2	1.000006
11500.0	17.4	-43.1		26.4	590.9	94.1	1.000006
12000.0	17.0	-42.7		25.8	591.5	95.1	1.000006
12500.0	16.7	-42.2		25.1	592.0	98.3	1.000006
13000.0	16.3	-41.8		24.5	592.5		1.000005
13500.0	15.9	-41.4		24.0	593.0		1.000005
14000.0	15.6	-41.0		23.4	593.6		1.000005
14500.0	15.2	-40.6		22.8	594.1		1.000005
15000.0	14.9	-40.2		22.3	594.6		1.000005

STATION ALTITUDE 4051.00 FEET MSL
16 JULY 81
ASCENSION NO. 71 0630 HRS MDT

MANDATORY LEVELS
1970031071
JALLEN

GEODETLIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

Table 7

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUMID. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES (TN)	SPEED KNOTS
650.0	4911.	21.8	13.4	59.	176.2	1.6
600.0	6634.	19.4	10.9	58.	145.4	3.3
750.0	8450.	16.3	8.0	58.	204.2	7.0
700.0	10364.	11.8	4.5	61.	214.7	7.0
650.0	12388.	7.5	2.4	70.	218.7	14.7
600.0	14535.	2.5	-4.4	60.	209.3	10.4
550.0	16830.	-1.1	-6.6	60.	240.8	11.5
500.0	19304.	-6.0	-10.6	70.	172.2	1.3
450.0	21991.	-12.0	-12.9	92.	177.0	4.6
400.0	24930.	-16.7	-21.7	65.	205.0	3.6
350.0	28179.	-22.9	-32.7	42.	167.3	5.5
300.0	31822.	-31.6	-47.4	19.	125.4	5.7
250.0	35963.	-42.1	-49.4	42.	152.6	3.5
200.0	40782.	-54.7			198.0	14.5
175.0	43547.	-59.5			300.3	13.4
150.0	46674.	-65.3			356.0	12.1
125.0	50258.	-70.2			117.7	7.5
100.0	54617.	-69.4			159.6	7.5
80.0	59020.	-67.7			88.5	15.1
70.0	61683.	-65.4			75.4	25.9
60.0	64799.	-58.6			91.7	31.7
50.0	68554.	-57.0			100.3	24.2
40.0	73216.	-54.5			86.8	24.3
30.0	79307.	-51.2			86.4	31.3
25.0	83199.	-50.8			93.5	34.4
20.0	88014.	-45.6			86.7	45.0
15.0	94378.	-40.3				

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

STATION ALTITUDE 4051.0 FEET MSL
16 JULY 61 0950 HRS MDT
ASCENSION NO. 72

SIGNIFICANT LEVEL DATA
1970030072
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

TABLE 8

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
375.4	27.0	14.1	45.0
371.8	25.4	13.0	48.0
350.0	22.6	13.1	55.0
755.0	16.1	6.8	54.0
700.0	11.6	5.0	64.0
633.0	6.5	.8	67.0
604.8	3.1	.5	83.0
544.6	-1.0	-0.5	66.0
500.0	-6.4	-9.3	80.0
490.0	-7.1	-7.5	83.0
463.8	-9.8	-14.7	67.0
431.3	-13.1	-15.7	81.0
400.0	-14.7	-22.3	52.0
396.6	-15.0	-26.4	37.0
388.3	-16.6	-25.0	48.0
366.9	-18.7	-33.8	25.0
334.6	-25.2	-34.3	42.0
300.0	-31.1	-42.0	31.0
276.8	-35.5	-46.8	30.0
266.0	-37.7	-40.2	40.0
250.0	-41.3	-50.0	38.0
227.0	-46.0		
200.0	-52.6		
182.6	-56.6		
169.4	-58.6		
150.0	-64.8		
136.6	-67.4		
125.6	-67.9		
109.5	-72.4		
105.4	-70.6		
102.2	-66.3		
100.0	-65.5		
81.4	-68.0		
70.0	-66.2		
60.4	-60.1		
50.0	-56.9		
38.0	-49.4		
30.4	-50.7		
28.4	-49.4		

STATION ALTITUDE 4051.00 FEET MSL
16 JULY 81
ASCENSION NO. 72 0950 HRS MDT

UPPER AIR DATA
1970030072
JALLEN

GEODETTIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

TABLE 9

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	IND. DATA DIRECTION DEGREES (IN)	SPEED KNOTS	INDEX OF REFRACTION
4051.0	875.4	27.0	45.0	1004.0	677.3	0.0	0.0	1.000292
4500.0	861.9	24.1	51.2	1003.1	674.0	147.0	1.3	1.000290
5000.0	847.0	22.4	55.0	991.7	672.0	147.0	2.7	1.000286
5500.0	832.1	21.4	54.8	977.8	670.8	147.0	4.1	1.000279
6000.0	817.6	20.5	54.7	964.1	669.6	150.1	5.3	1.000273
6500.0	803.3	19.5	54.5	950.6	668.4	153.0	6.5	1.000267
7000.0	789.2	18.5	54.4	937.3	667.2	167.7	6.8	1.000261
7500.0	775.4	17.6	54.2	924.2	666.0	162.5	7.4	1.000255
8000.0	761.8	16.6	54.1	911.3	664.8	166.7	7.7	1.000249
8500.0	748.3	15.6	55.2	898.5	663.6	169.0	8.2	1.000245
9000.0	735.0	14.5	57.6	885.7	662.4	165.3	8.6	1.000241
9500.0	721.8	13.4	59.9	873.2	661.1	163.2	9.0	1.000237
10000.0	709.0	12.4	62.3	860.9	659.8	165.7	8.7	1.000233
10500.0	696.2	11.3	64.2	848.6	658.6	169.0	8.2	1.000229
11000.0	683.6	10.4	64.7	836.1	657.5	196.5	6.8	1.000225
11500.0	671.2	9.5	65.3	823.7	656.4	205.5	6.0	1.000220
12000.0	659.0	8.5	65.8	811.5	655.2	209.2	6.7	1.000216
12500.0	647.0	7.6	66.3	799.6	654.1	211.2	7.8	1.000212
13000.0	635.3	6.7	66.9	787.0	653.0	211.1	9.6	1.000207
13500.0	623.6	5.4	72.3	776.9	651.5	213.8	10.7	1.000205
14000.0	612.1	4.0	78.8	766.3	649.8	218.2	11.3	1.000202
14500.0	600.7	2.8	81.9	755.4	648.5	223.5	11.9	1.000199
15000.0	589.5	2.1	78.8	743.4	647.5	228.0	12.7	1.000194
15500.0	578.5	1.4	75.8	731.7	646.5	230.1	12.9	1.000189
16000.0	567.7	.6	72.7	720.1	645.6	231.2	13.0	1.000184
16500.0	557.0	-.1	69.7	708.7	644.7	229.6	11.6	1.000179
17000.0	546.6	-.9	66.6	697.5	643.7	227.6	10.3	1.000175
17500.0	536.3	-2.0	68.5	687.2	642.4	226.5	9.1	1.000172
18000.0	526.1	-3.2	71.7	677.1	640.9	223.0	8.3	1.000169
18500.0	516.0	-4.4	74.8	667.3	639.4	218.0	8.7	1.000166
19000.0	506.2	-5.6	78.0	657.6	638.0	210.9	9.6	1.000163
19500.0	496.5	-6.6	81.0	647.0	636.7	202.8	11.2	1.000160
20000.0	487.0	-7.4	81.2	636.9	635.8	197.9	12.4	1.000157
20500.0	477.5	-8.4	75.5	627.0	634.5	194.9	13.2	1.000153
21000.0	468.3	-9.3	69.8	617.3	633.3	193.7	12.9	1.000149
21500.0	459.1	-10.3	68.9	607.5	632.2	194.3	11.4	1.000146
22000.0	450.1	-11.2	72.8	597.6	631.1	198.0	10.1	1.000144
22500.0	441.3	-12.1	76.6	587.9	630.0	206.0	9.1	1.000141
23000.0	432.7	-13.0	80.4	578.4	628.9	215.1	9.4	1.000139
23500.0	424.1	-13.5	74.5	568.1	628.3	225.5	10.6	1.000136

STATION ALTITUDE 4051.00 FEET MSL
16 JULY 81 0950 HRS MDT
ASCENSION NO. 72

UPPER AIR DATA
1970030072
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

TABLE 9 Con't

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) SPEED KNOTS	INDEX OF REFRACTION
24000.0	415.7	-13.9	-18.7	66.8	557.9	627.7	224.0	1.000132
24500.0	407.5	-14.3	-20.5	59.1	547.6	627.1	223.7	1.000129
25000.0	399.4	-14.8	-22.9	49.5	530.0	628.5	219.3	1.000125
25500.0	391.5	-16.0	-25.4	43.8	529.9	625.0	212.3	1.000122
26000.0	383.6	-17.0	-26.6	43.1	521.5	623.7	204.2	1.000120
26500.0	375.9	-17.8	-29.5	34.9	512.6	622.7	194.9	1.000117
27000.0	366.4	-18.6	-33.0	26.6	503.8	621.7	188.2	1.000114
27500.0	360.9	-19.9	-33.6	28.1	496.2	620.1	179.8	1.000113
28000.0	353.5	-21.3	-33.6	31.9	488.8	618.3	173.4	1.000111
28500.0	346.3	-22.8	-33.8	35.7	481.0	616.5	171.5	1.000109
29000.0	339.2	-24.2	-34.1	39.5	474.5	614.8	169.3	1.000108
29500.0	332.2	-25.6	-34.8	41.3	467.3	613.1	169.2	1.000106
30000.0	325.3	-26.7	-36.4	39.1	459.7	611.6	169.3	1.000104
30500.0	318.4	-27.9	-38.0	37.0	452.2	610.2	170.9	1.000102
31000.0	311.8	-29.0	-39.6	34.9	444.8	608.8	172.6	1.000100
31500.0	305.3	-30.2	-41.2	32.7	437.5	607.3	172.0	1.000098
32000.0	298.8	-31.3	-42.8	31.0	430.4	605.9	170.9	1.000097
32500.0	292.4	-32.5	-43.9	30.7	423.3	604.4	168.1	1.000095
33000.0	286.2	-33.7	-45.0	30.4	416.3	602.9	165.2	1.000093
33500.0	280.1	-34.9	-46.2	30.1	409.4	601.4	163.8	1.000092
34000.0	274.1	-36.1	-46.6	32.5	402.6	599.9	163.1	1.000090
34500.0	268.1	-37.3	-46.3	38.0	395.9	598.4	162.4	1.000089
35000.0	262.3	-38.5	-47.1	39.5	389.3	596.8	161.7	1.000087
35500.0	256.5	-39.8	-48.4	38.8	382.9	595.1	161.4	1.000086
36000.0	250.9	-41.1	-49.8	38.1	376.6	593.5	163.2	1.000084
36500.0	245.3	-42.2	-52.7	30.5**	370.0	592.0	164.9	1.000083
37000.0	239.8	-43.3	-56.4	21.6**	363.5	590.6	168.9	1.000081
37500.0	234.5	-44.4	-61.5	12.7**	357.1	589.2	175.0	1.000080
38000.0	229.2	-45.5	-70.9	3.8**	350.8	587.8	161.5	1.000078
38500.0	224.0	-46.7			344.6	586.3	189.1	1.000077
39000.0	218.9	-47.9			338.5	584.7	204.3	1.000075
39500.0	213.9	-49.1			332.6	583.1	231.1	1.000074
40000.0	209.0	-50.3			326.7	581.6	292.0	1.000073
40500.0	204.2	-51.5			321.0	580.0	327.3	1.000071
41000.0	199.5	-52.7			315.3	578.4	338.4	1.000070
41500.0	194.9	-53.7			309.4	576.1	348.0	1.000069
42000.0	190.3	-54.8			303.6	575.7	348.0	1.000068
42500.0	185.8	-55.8			297.9	574.3	321.3	1.000066
43000.0	181.5	-56.8			292.2	573.1	350.7	1.000065
43500.0	177.2	-57.4			286.1	572.2	338.0	1.000064

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

STATION ALTITUDE 4051.00 FEET MSL
16 JULY 61 0950 HRS MDT
ASCENSION NO. 72

UPPER AIR DATA
1970030072
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

TABLE 9 Con't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	*IND DATA DIRECTION (IN) DEGREES	SPEED KNOTS	INDEX OF REFRACTION
4400.0	173.0	-58.0		280.1	571.4	2.9	10.1	1.000062
4450.0	166.8	-58.0		274.4	570.4	9.4	10.8	1.000061
4500.0	164.8	-60.0		269.3	568.8	15.0	11.1	1.000060
4550.0	160.8	-61.3		264.3	567.1	24.6	9.8	1.000059
4600.0	156.9	-62.5		259.5	565.4	36.1	8.8	1.000058
4650.0	153.1	-63.8		254.7	563.7	37.1	9.0	1.000057
4700.0	149.4	-64.9		249.9	562.2	37.3	9.2	1.000056
4750.0	145.7	-65.6		244.5	561.2	40.4	8.4	1.000054
4800.0	142.1	-66.3		239.3	560.3	58.1	5.7	1.000053
4850.0	138.6	-67.0		234.2	559.4	94.9	4.3	1.000052
4900.0	135.1	-67.5		228.9	558.7	124.0	4.8	1.000051
4950.0	131.8	-67.6		223.4	558.5	139.2	6.0	1.000050
5000.0	128.5	-67.8		218.0	558.3	147.6	7.3	1.000049
5050.0	125.3	-68.0		212.8	558.0	141.7	7.6	1.000047
5100.0	122.2	-68.8		208.3	556.9	136.3	8.0	1.000046
5150.0	119.1	-69.6		203.8	555.8	132.9	8.5	1.000045
5200.0	116.1	-70.5		199.5	554.6	131.0	9.0	1.000044
5250.0	113.2	-71.3		195.3	553.5	128.6	9.5	1.000043
5300.0	110.3	-72.2		191.2	552.3	121.4	10.7	1.000043
5350.0	107.5	-71.5		185.8	553.2	115.0	11.9	1.000041
5400.0	104.8	-69.8		179.6	555.5	116.0	11.9	1.000040
5450.0	102.2	-66.3		172.1	560.3	119.2	11.3	1.000038
5500.0	99.7	-65.5		167.2	561.3	123.3	10.3	1.000037
5550.0	97.2	-65.8		163.5	560.9	131.7	8.0	1.000036
5600.0	94.8	-66.1		159.5	560.5	140.2	6.0	1.000036
5650.0	92.5	-66.5		155.8	560.1	148.1	5.6	1.000035
5700.0	90.2	-66.8		152.2	559.7	130.5	6.0	1.000034
5750.0	87.9	-67.1		148.6	559.3	130.5	6.7	1.000033
5800.0	85.8	-67.4		145.2	558.9	118.9	9.1	1.000032
5850.0	83.6	-67.7		141.8	558.4	112.4	11.8	1.000032
5900.0	81.6	-68.0		138.5	558.0	107.0	13.6	1.000031
5950.0	79.5	-67.7		134.9	558.4	101.8	14.7	1.000030
6000.0	77.6	-67.4		131.4	558.8	98.5	15.9	1.000029
6050.0	75.7	-67.1		127.9	559.2	101.2	17.2	1.000028
6100.0	73.8	-66.8		124.6	559.6	103.5	18.5	1.000028
6150.0	71.9	-66.5		121.3	560.0	107.9	20.2	1.000027
6200.0	70.2	-66.2		118.1	560.4	112.3	22.1	1.000026
6250.0	68.5	-65.3		114.7	561.7	114.9	23.8	1.000026
6300.0	66.8	-64.3		111.4	563.1	111.8	23.4	1.000025
6350.0	65.2	-63.2		108.2	564.4	103.0	23.0	1.000024

STATION ALTITUDE 4051.00 FEET MSL
16 JULY 61 0950 MRS MDT
ASLNSION NO. 72

UPPER AIR DATA
1970030072
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

TABLE 9 Con't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (IN)	SPEED KNOTS	INDEX OF REFRACTION
04000.0	63.6	-62.2		103.0	563.4	105.5	22.6	1.000023
04500.0	62.0	-61.2		102.0	567.2	102.4	22.1	1.000023
05000.0	60.5	-60.2		94.0	568.5	99.2	21.7	1.000022
05500.0	59.1	-59.7		90.4	569.1	98.9	22.0	1.000021
06000.0	57.7	-59.3		94.0	569.7	99.0	22.4	1.000021
06500.0	56.3	-58.9		91.6	570.2	99.1	22.8	1.000020
07000.0	55.0	-58.5		84.2	570.8	100.2	23.6	1.000020
07500.0	53.7	-58.1		86.9	571.3	101.3	24.5	1.000019
08000.0	52.4	-57.7		84.7	571.8	101.8	25.3	1.000019
08500.0	51.1	-57.3		82.5	572.4	100.4	25.9	1.000018
09000.0	49.9	-56.9		80.4	572.9	99.0	26.6	1.000018
09500.0	48.8	-56.2		78.3	573.8	97.3	27.1	1.000017
70000.0	47.6	-55.6		76.3	574.6	94.6	27.1	1.000017
70500.0	46.5	-54.9		74.3	575.5	92.0	27.1	1.000017
71000.0	45.4	-54.3		72.3	576.3	90.0	27.3	1.000016
71500.0	44.4	-53.7		70.5	577.2	88.7	27.5	1.000016
72000.0	43.4	-53.0		68.6	578.0	87.4	27.7	1.000015
72500.0	42.4	-52.4		66.8	578.9	86.7	27.9	1.000015
73000.0	41.4	-51.7		65.1	579.7	86.2	28.1	1.000014
73500.0	40.4	-51.1		63.4	580.5	85.7	28.2	1.000014
74000.0	39.5	-50.4		61.8	581.4	87.4	28.8	1.000014
74500.0	38.6	-49.8		60.1	582.2	89.2	29.5	1.000013
75000.0	37.7	-49.5		58.7	582.7	90.9	30.2	1.000013
75500.0	36.8	-49.6		57.4	582.5	91.9	30.8	1.000013
76000.0	36.0	-49.7		56.1	582.3	92.8	31.5	1.000012
76500.0	35.1	-49.9		54.8	582.1	93.7	32.2	1.000012
77000.0	34.3	-50.0		53.6	582.0	93.4	32.4	1.000012
77500.0	33.6	-50.1		52.4	581.8	92.6	32.4	1.000012
78000.0	32.8	-50.3		51.2	581.6	91.8	32.3	1.000011
78500.0	32.0	-50.4		50.1	581.4			1.000011
79000.0	31.3	-50.5		49.0	581.3			1.000011
79500.0	30.6	-50.7		47.9	581.1			1.000011
80000.0	29.9	-50.4		46.7	581.5			1.000010
80500.0	29.2	-49.9		45.6	582.0			1.000010
81000.0	28.5	-49.5		44.5	582.6			1.000010

STATION ALTITUDE 4651.00 FEET MSL
16 JULY 61 0950 HRS MDT
ASCENSION NO. 72

MANDATORY LEVELS
1970031072
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

TABLE 10

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUMID. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4896.	22.6	13.1	55.	147.8	2.4
800.0	6620.	19.3	9.9	54.	154.9	6.7
750.0	8432.	15.7	6.7	55.	189.5	8.1
700.0	10343.	11.6	5.0	64.	187.5	8.5
650.0	12367.	7.8	1.9	60.	211.2	7.3
600.0	14518.	2.8	-0.0	62.	223.8	12.0
550.0	16818.	-6	-5.8	68.	228.4	10.7
500.0	19295.	-6.4	-9.3	80.	205.5	10.6
450.0	21978.	-11.2	-15.1	73.	198.1	10.1
400.0	24923.	-14.7	-22.3	52.	220.0	11.1
350.0	28198.	-22.0	-33.7	34.	172.6	9.1
300.0	31848.	-31.1	-42.0	31.	171.1	9.7
250.0	36001.	-41.3	-50.0	36.	163.4	13.8
200.0	40854.	-52.6			336.9	3.6
175.0	43648.	-57.7			359.2	9.8
150.0	46791.	-64.8			37.2	9.1
125.0	50405.	-69.1			141.4	7.6
100.0	54767.	-65.5			122.1	10.7
80.0	59191.	-67.8			103.2	14.4
70.0	61836.	-66.2			112.4	22.2
60.0	64949.	-60.0			98.9	21.7
50.0	68711.	-56.9			99.2	26.5
40.0	73413.	-50.8			86.2	28.4
30.0	79580.	-50.4				

STATION ALTITUDE 4126.59 FEET MSL
16 JULY 81
ASCENSION NO. 162

GEODETIC COORDINATES
32.88865 LAT DEG
106.09965 LON DEG

SIGNIFICANT LEVEL DATA
1970010102
HOLLOMAN

TABLE 11

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
876.1	25.2	14.9	53.0
874.2	26.0	15.7	53.0
850.0	23.3	12.8	51.0
820.4	21.5	10.9	51.0
794.6	19.8	10.2	54.0
756.4	16.8	8.2	57.0
700.0	12.6	4.8	59.0
680.8	10.9	3.0	58.0
626.2	5.8	-1.1	61.0
596.3	2.5	-2.4	70.0
565.6	.3	-5.2	77.0
540.4	-2.2	-7.1	89.0
505.0	-5.9	-9.1	78.0
500.0	-6.4	-9.9	76.0
480.4	-8.7	-14.6	82.0
465.8	-10.2	-13.8	75.0
451.8	-10.2	-14.6	70.0
429.0	-11.9	-19.9	51.0
400.0	-15.1	-24.1	46.0
357.4	-21.3	-32.3	36.0
324.4	-26.2	-40.3	25.0
300.0	-31.1	-37.5	53.0
281.0	-34.5	-42.6	43.0
250.0	-40.5	-49.9	35.0
200.0	-52.4		
163.4	-62.6		
150.0	-66.0		
138.8	-68.4		
135.0	-65.8		
120.0	-68.1		
109.8	-71.2		
100.0	-67.8		
93.8	-65.6		
87.8	-66.5		
82.2	-67.7		
77.0	-64.0		
71.6	-65.4		
70.0	-65.2		
59.4	-58.6		
50.0	-56.3		

STATION ALTITUDE 4126.59 FEET MSL
 16 JULY 81 0950 HRS MDT
 ASCENSION NO. 162

SIGNIFICANT LEVEL DATA

14700.0162
 HOLLOMAN

GEODETIC COORDINATES
 32.88865 LAT DEG
 106.09965 LONG DEG

TABLE 11

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
41.0	73356.6	-51.0		
30.0	80103.3	-49.3		
22.6	86278.2	-47.1		
20.0	88957.9	-46.9		
15.2	95092.2	-38.5		
12.8	99002.8	-38.8		

STATION ALTITUDE 4126.59 FEET MSL
 16 JULY 81
 ASCENSION NO. 162

UPPER AIR DATA
 1970010162
 HOLLOMA,

GEODLTIC COORDINATES
 32.88865 LAT DEG
 106.09965 LON DEG

TABLE 12

GEOM. ALTITUDE MSL FEET	PRESSURE HILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TN)	INDEX OF REFRACTION
4126.5	870.1	25.2	53.0	1015.5	675.4	180.0	1.000299
4500.0	864.8	25.0	52.2	1003.3	675.1	178.9	1.000294
5000.0	850.0	23.3	51.0	992.3	673.0	178.4	1.000284
5500.0	835.3	22.4	51.0	978.3	671.9	178.2	1.000278
6000.0	820.8	21.5	51.0	964.5	670.8	178.6	1.000272
6500.0	806.5	20.6	52.6	950.7	669.7	181.6	1.000268
7000.0	792.4	19.6	54.2	937.3	668.6	182.7	1.000264
7500.0	773.5	18.6	55.2	924.4	667.3	177.4	1.000259
8000.0	764.8	17.5	56.3	911.7	666.0	171.9	1.000254
8500.0	751.3	16.4	57.2	898.9	664.7	168.0	1.000249
9000.0	737.9	15.5	57.6	886.1	663.6	165.0	1.000244
9500.0	724.8	14.5	58.1	873.4	662.4	167.6	1.000239
10000.0	711.9	13.5	58.6	860.9	661.2	181.8	1.000234
10500.0	699.2	12.5	59.0	848.7	660.0	203.3	1.000229
11000.0	686.6	11.4	58.3	836.9	658.6	218.4	1.000223
11500.0	674.2	10.3	58.3	825.2	657.2	230.6	1.000218
12000.0	661.9	9.2	59.0	813.5	655.9	225.0	1.000214
12500.0	649.9	8.1	59.7	802.0	654.5	221.7	1.000210
13000.0	638.0	6.9	60.3	790.7	653.2	220.6	1.000205
13500.0	626.4	5.8	61.0	779.6	651.8	219.8	1.000201
14000.0	614.8	4.6	64.4	768.6	650.3	218.7	1.000198
14500.0	603.4	3.3	67.8	757.9	648.8	217.1	1.000195
15000.0	592.2	2.2	70.9	746.8	647.5	214.8	1.000192
15500.0	581.2	1.4	73.4	735.0	646.6	216.0	1.000189
16000.0	570.3	.6	75.9	723.3	645.7	219.9	1.000186
16500.0	559.6	-.3	75.1	712.3	644.5	222.0	1.000182
17000.0	549.1	-1.3	71.8	701.8	643.2	224.1	1.000177
17500.0	538.7	-2.4	69.4	691.3	641.9	215.0	1.000172
18000.0	528.4	-3.4	72.0	680.8	640.6	198.0	1.000169
18500.0	518.4	-4.5	74.5	670.5	639.3	194.2	1.000167
19000.0	508.5	-5.5	77.1	660.4	638.1	194.3	1.000164
19500.0	498.7	-6.5	75.1	650.3	636.8	193.4	1.000160
20000.0	489.1	-7.7	68.3	640.6	635.3	192.5	1.000155
20500.0	479.7	-8.8	62.7	631.1	633.9	193.7	1.000151
21000.0	470.3	-9.7	70.9	621.0	632.8	194.9	1.000150
21500.0	461.2	-10.2	73.4	609.9	632.3	201.4	1.000147
22000.0	452.2	-10.2	70.1	598.1	632.3	208.6	1.000144
22500.0	443.3	-10.8	63.0	587.4	631.4	212.8	1.000140
23000.0	434.6	-11.5	55.8	577.9	630.6	216.3	1.000137
23500.0	425.1	-12.2	50.5	568.2	629.6	217.1	1.000133

STATION ALTITUDE 4126.59 FEET MSL
16 JULY 81
ASCENSION NO. 162

UPPER AIR DATA
1970010162
HOLLOMAN

GEODETTIC COORDINATES
32.88865 LAT DEG
106.09965 LON DEG

0950 HRS MOT

TABLE 12

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 DIRECTION (DEGREES TRUE)	SPEED KNOTS	INDEX OF REFRACTION
24000.0	417.7	-13.1	-21.5	49.1	559.0	628.5	217.0	9.0	1.000131
24500.0	409.4	-14.0	-22.7	47.7	549.9	627.4	214.0	8.6	1.000128
25000.0	401.3	-14.9	-23.9	46.2	541.0	626.3	210.6	8.2	1.000126
25500.0	393.3	-16.0	-25.3	44.5	532.4	624.9	206.3	8.0	1.000123
26000.0	385.4	-17.2	-26.8	42.7	524.1	623.5	202.2	7.8	1.000121
26500.0	377.6	-18.3	-28.3	40.9	515.8	622.1	199.6	7.6	1.000118
27000.0	370.0	-19.4	-29.8	39.1	507.7	620.8	194.3	7.2	1.000116
27500.0	362.6	-20.5	-31.3	37.3	499.7	619.4	179.5	6.5	1.000114
28000.0	355.2	-21.6	-32.8	35.3	491.7	618.0	163.6	6.1	1.000112
28500.0	347.9	-22.7	-34.5	32.9	483.7	616.7	149.1	5.8	1.000110
29000.0	340.7	-23.7	-36.1	30.6	475.7	615.4	137.7	6.0	1.000108
29500.0	333.7	-24.8	-37.9	28.2	467.9	614.1	135.9	7.0	1.000104
30000.0	326.9	-25.8	-39.6	25.9	460.3	612.7	140.6	8.0	1.000102
30500.0	320.1	-27.0	-39.3	29.8	452.9	611.2	144.1	9.1	1.000101
31000.0	313.3	-28.4	-38.3	37.4	445.8	609.6	147.6	9.7	1.000099
31500.0	306.8	-29.7	-37.8	45.0	438.8	607.9	150.7	10.3	1.000098
32000.0	300.3	-31.0	-37.5	52.6	432.0	606.3	149.9	10.4	1.000096
32500.0	293.9	-32.2	-39.1	49.9	424.8	604.9	148.0	10.2	1.000094
33000.0	287.7	-33.3	-40.8	46.6	417.7	603.4	150.8	9.9	1.000091
33500.0	281.5	-34.4	-42.5	43.3	410.7	602.0	157.0	9.7	1.000089
34000.0	275.4	-35.5	-43.9	41.6	403.7	600.6	155.6	9.9	1.000087
34500.0	269.4	-36.7	-45.2	40.1	396.8	599.1	171.9	10.5	1.000086
35000.0	263.6	-37.8	-46.6	38.6	390.0	597.7	176.3	11.6	1.000084
35500.0	257.8	-38.9	-48.0	37.1	383.4	596.3	179.2	12.3	1.000083
36000.0	252.2	-40.0	-49.4	35.6	376.9	594.8	162.6	10.5	1.000078
36500.0	246.6	-41.2	-51.1	32.9**	370.4	593.3	191.5	9.0	1.000077
37000.0	241.0	-42.4	-53.2	29.3**	363.9	591.7	203.9	6.3	1.000074
37500.0	235.6	-43.7	-55.4	25.7**	357.6	590.2	226.5	4.5	1.000073
38000.0	230.3	-44.9	-57.6	22.1**	351.4	588.6	303.5	5.2	1.000070
38500.0	225.1	-46.1	-60.1	18.5**	345.3	587.0	322.1	3.9	1.000072
39000.0	220.0	-47.3	-62.7	14.9**	339.3	585.4	322.1	3.9	1.000072
39500.0	215.0	-48.5	-65.7	11.3**	333.5	583.9	322.5	6.8	1.000069
40000.0	210.1	-49.8	-69.4	7.8**	327.7	582.3	333.5	8.9	1.000068
40500.0	205.4	-51.0	-74.5	4.2**	322.1	580.7	341.1	9.3	1.000067
41000.0	200.8	-52.2	-87.0	.6**	316.5	579.1	349.5	8.9	1.000065
41500.0	196.0	-53.4			310.8	577.5	358.6	8.7	1.000064
42000.0	191.4	-54.6			305.1	575.9			
42500.0	186.8	-55.8			299.5	574.3			
43000.0	182.4	-57.0			294.0	572.7			
43500.0	178.1	-58.3			288.7	571.1			

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

STATION ALTITUDE 4126.59 FEET MSL
16 JULY 61
ASCENSION NO. 162

UPPER AL. DATA
1970010162
HOLLOMAN

GEODETIC COORDINATES
32.88865 LAT DEG
106.09965 LONG DEG

0950 HRS MDT

TABLE 12 Con't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
44000.0	173.8	-59.5		285.4	569.5	11.3	8.2	1.000063
44500.0	169.7	-60.7		278.3	567.9	25.0	8.1	1.000062
45000.0	165.7	-61.9		273.2	566.2	35.0	8.6	1.000061
45500.0	161.7	-63.0		268.1	564.7	41.4	9.4	1.000060
46000.0	157.8	-64.0		262.7	563.4	46.9	10.3	1.000059
46500.0	153.9	-65.0		257.5	562.1	51.6	11.1	1.000057
47000.0	150.1	-66.0		252.4	560.8	55.7	12.0	1.000056
47500.0	146.4	-66.8		247.1	559.7	67.2	12.2	1.000055
48000.0	142.8	-67.5		241.9	558.6	81.8	12.7	1.000054
48500.0	139.2	-68.3		236.8	557.6	95.7	13.2	1.000053
49000.0	135.8	-66.3		228.7	560.3	111.8	13.1	1.000051
49500.0	132.4	-66.2		222.8	560.5	120.7	14.1	1.000050
50000.0	129.1	-66.7		217.8	559.8	136.9	11.3	1.000049
50500.0	125.9	-67.2		212.9	559.1	153.1	8.9	1.000047
51000.0	122.8	-67.7		208.2	558.5	169.8	7.4	1.000046
51500.0	119.7	-68.2		203.5	557.8	184.6	6.4	1.000045
52000.0	116.7	-69.1		199.3	556.6	200.7	5.9	1.000044
52500.0	113.8	-69.9		195.1	555.3	171.9	6.2	1.000043
53000.0	111.0	-70.8		191.0	554.1	150.3	7.8	1.000043
53500.0	108.2	-70.7		186.1	554.4	136.1	9.7	1.000041
54000.0	105.5	-69.7		180.6	553.8	125.7	11.7	1.000040
54500.0	102.8	-68.8		175.3	553.9	118.5	14.0	1.000039
55000.0	100.2	-67.9		170.1	553.2	119.4	14.3	1.000038
55500.0	97.7	-67.0		165.2	559.3	121.0	14.4	1.000037
56000.0	95.3	-66.2		160.4	560.5	122.0	14.3	1.000036
56500.0	93.0	-65.7		156.1	561.1	121.4	13.9	1.000035
57000.0	90.7	-66.1		152.5	560.6	120.7	13.5	1.000034
57500.0	88.4	-66.4		149.0	560.2	116.9	13.5	1.000033
58000.0	86.3	-66.8		145.6	559.6	112.2	13.7	1.000032
58500.0	84.1	-67.3		142.3	559.0	108.0	13.9	1.000032
59000.0	82.0	-67.6		139.0	558.6	105.0	14.0	1.000031
59500.0	80.0	-66.2		134.7	560.5	102.0	14.1	1.000030
60000.0	78.0	-64.8		130.5	562.4	102.1	14.5	1.000029
60500.0	76.1	-64.2		126.9	563.1	103.6	15.1	1.000028
61000.0	74.3	-64.7		124.1	562.5	105.4	15.8	1.000028
61500.0	72.4	-65.2		121.3	561.8	110.7	17.4	1.000027
62000.0	70.7	-65.3		118.4	561.7	115.0	19.2	1.000026
62500.0	68.9	-64.6		115.2	562.6	115.6	20.1	1.000026
63000.0	67.3	-63.6		111.0	563.9	114.0	20.3	1.000025
63500.0	65.6	-62.6		106.6	565.3	112.2	20.5	1.000024

UPPER AIR DATA
1970010162
HOLLOMAN

STATION ALTITUDE 4126.59 FEET MSL
16 JULY 81
ASCENSION NO. 162

0950 HRS MDT

TABLE 12 Con't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (IN)	SPEED KNOTS	INDEX OF REFRACTION
6400.0	64.1	-61.6		105.5	566.6	109.2	20.5	1.000023
6350.0	62.5	-60.7		102.5	567.9	106.0	20.4	1.000023
6300.0	61.0	-59.7		99.5	569.2	103.9	20.7	1.000022
6250.0	59.5	-58.7		96.7	570.5	103.2	21.2	1.000022
6200.0	58.1	-58.3		94.2	571.0	102.5	21.8	1.000021
6150.0	56.7	-58.0		91.9	571.4	100.7	22.1	1.000020
6100.0	55.4	-57.7		89.6	571.9	98.5	22.4	1.000020
6050.0	54.1	-57.3		87.3	572.3	96.3	22.7	1.000019
6000.0	52.8	-57.0		85.1	572.7	94.9	23.9	1.000019
5950.0	51.6	-56.7		83.0	573.1	93.6	25.2	1.000018
5900.0	50.3	-56.4		80.9	573.6	91.2	25.7	1.000018
5850.0	49.2	-55.8		78.8	574.3	88.5	24.8	1.000018
5800.0	48.0	-55.2		76.6	575.1	81.4	24.0	1.000017
5750.0	46.9	-54.6		74.8	575.9	80.0	23.8	1.000017
5700.0	45.8	-54.0		72.8	576.8	81.2	23.8	1.000016
5650.0	44.7	-53.3		70.9	577.6	82.3	23.8	1.000016
5600.0	43.7	-52.7		69.1	578.4	86.8	25.6	1.000015
5550.0	42.7	-52.1		67.3	579.2	91.1	27.9	1.000015
5500.0	41.7	-51.4		65.5	580.1	94.5	30.3	1.000015
5450.0	40.7	-51.0		63.9	580.7	92.9	30.1	1.000014
5400.0	39.8	-50.8		62.4	580.9	91.3	30.0	1.000014
5350.0	38.9	-50.7		60.9	581.0	90.0	29.8	1.000014
5300.0	38.0	-50.6		59.5	581.2	89.8	29.4	1.000013
5250.0	37.1	-50.5		58.1	581.4	89.6	29.0	1.000013
5200.0	36.3	-50.3		56.7	581.5	89.6	28.8	1.000013
5150.0	35.4	-50.2		55.4	581.7	89.6	28.8	1.000012
5100.0	34.6	-50.1		54.1	581.9	89.9	28.9	1.000012
5050.0	33.8	-50.0		52.8	582.0	90.1	28.7	1.000012
5000.0	33.1	-49.8		51.6	582.2	90.4	28.6	1.000011
4950.0	32.3	-49.7		50.4	582.3	90.4	28.4	1.000011
4900.0	31.6	-49.6		49.2	582.5	92.9	27.9	1.000011
4850.0	30.8	-49.5		48.0	582.7	95.9	27.4	1.000011
4800.0	30.1	-49.3		46.9	582.8	98.9	27.0	1.000010
4750.0	29.5	-49.2		45.6	583.1	100.9	27.6	1.000010
4700.0	28.8	-49.0		44.7	583.3	102.8	28.3	1.000010
4650.0	28.1	-48.8		43.7	583.5	103.8	29.1	1.000010
4600.0	27.5	-48.6		42.7	583.8	102.3	30.3	1.000009
4550.0	26.9	-48.4		41.7	584.0	100.9	31.5	1.000009
4500.0	26.3	-48.3		40.7	584.2	99.5	32.8	1.000009
4450.0	25.7	-48.1		39.7	584.4	98.3	33.8	1.000009

UPPER AIR DATA
1970010102
HOLLOWAY

STATION ALTITUDE 4126.59 FEET MSL
16 JULY 81
ASCENSION NO. 162

0950 HRS MDT

GEODETIC COORDINATES
32.88865 LAT DEG
106.09965 LON DEG

TABLE 12 Con't

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	25.1	-47.9		30.8	584.7	97.1	34.8	1.000009
84500.0	24.5	-47.7		37.9	584.9	98.0	35.8	1.000008
85000.0	24.0	-47.6		37.0	585.1	94.2	37.0	1.000008
85500.0	23.4	-47.4		36.1	585.4	92.5	38.2	1.000008
86000.0	22.9	-47.2		35.3	585.6	90.9	39.5	1.000008
86500.0	22.4	-47.1		34.5	585.8	89.8	40.5	1.000008
87000.0	21.9	-47.0		33.7	585.8	89.1	41.3	1.000007
87500.0	21.4	-47.0		32.9	585.8	88.4	42.0	1.000007
88000.0	20.9	-47.0		32.2	585.9	88.1	42.8	1.000007
88500.0	20.4	-46.9		31.4	585.9	90.3	43.2	1.000007
89000.0	20.0	-46.8		30.7	586.1	92.3	43.8	1.000007
89500.0	19.5	-46.2		30.0	586.9	94.4	44.4	1.000007
90000.0	19.1	-45.5		29.2	587.8	96.6	45.1	1.000006
90500.0	18.7	-44.8		28.5	588.7	98.8	45.9	1.000006
91000.0	18.3	-44.1		27.8	589.6	100.9	46.8	1.000006
91500.0	17.9	-43.4		27.1	590.5	101.8	46.5	1.000006
92000.0	17.5	-42.7		26.4	591.4	100.3	43.9	1.000006
92500.0	17.1	-42.0		25.7	592.2	98.7	41.4	1.000006
93000.0	16.7	-41.4		25.1	593.1	96.8	38.9	1.000006
93500.0	16.3	-40.7		24.5	594.0	93.9	38.7	1.000005
94000.0	16.0	-40.0		23.8	594.9	90.8	38.8	1.000005
94500.0	15.6	-39.3		23.3	595.7	87.7	38.9	1.000005
95000.0	15.3	-38.6		22.7	596.6	86.7	39.9	1.000005
95500.0	14.9	-38.5		22.2	596.7	87.6	41.6	1.000005
96000.0	14.6	-38.6		21.7	596.7	88.5	43.3	1.000005
96500.0	14.3	-38.6		21.2	596.6			1.000005
97000.0	14.0	-38.6		20.8	596.6			1.000005
97500.0	13.7	-38.7		20.3	596.5			1.000005
98000.0	13.4	-38.7		19.9	596.5			1.000004
98500.0	13.1	-38.8		19.4	596.4			1.000004
99000.0	12.8	-38.8		19.0	596.4			1.000004

STATION ALTITUDE 4126.59 FEET MSL
16 JULY 61
ASCENSION NO. 102 0950 HRS MDT

MANDATORY LEVELS
1970010162
HOLLOMAN

GEODETIC COORDINATES
32.88865 LAT DEG
106.09965 LONG DEG

TABLE 13

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4996.	23.3	12.0	51.	178.4	6.6
800.0	6725.	20.2	10.4	53.	183.1	10.8
750.0	8542.	16.3	7.9	57.	165.4	8.5
700.0	10459.	12.6	4.8	59.	201.6	4.4
650.0	12486.	8.1	.7	60.	221.8	9.1
600.0	14637.	2.9	-2.2	69.	216.5	11.8
550.0	16936.	-1.2	-5.6	72.	223.8	5.0
500.0	19409.	-6.4	-9.9	76.	193.5	6.7
450.0	22088.	-10.3	-15.0	69.	209.6	8.4
400.0	25041.	-15.1	-24.1	40.	210.0	8.2
350.0	28308.	-22.4	-34.0	34.	153.8	5.9
300.0	31962.	-31.1	-37.5	53.	150.8	10.3
250.0	36121.	-40.5	-49.9	35.	177.7	12.0
200.0	40983.	-52.4			306.5	5.3
175.0	43772.	-59.1			7.7	8.3
150.0	46889.	-66.0			55.6	12.0
125.0	50502.	-67.3			158.5	8.4
100.0	54875.	-67.8			119.4	14.3
80.0	59303.	-66.2			102.2	14.1
70.0	61976.	-65.2			116.2	19.7
60.0	65102.	-59.0			103.4	21.0
50.0	68880.	-56.3			90.2	25.4
40.0	73593.	-50.9			91.8	30.1
30.0	79760.	-49.3			99.2	27.1
25.0	83695.	-47.9			97.0	34.9
20.0	88539.	-46.9			92.0	43.7
15.0	94916.	-38.5			87.4	41.1

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

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DATE
FILMED

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