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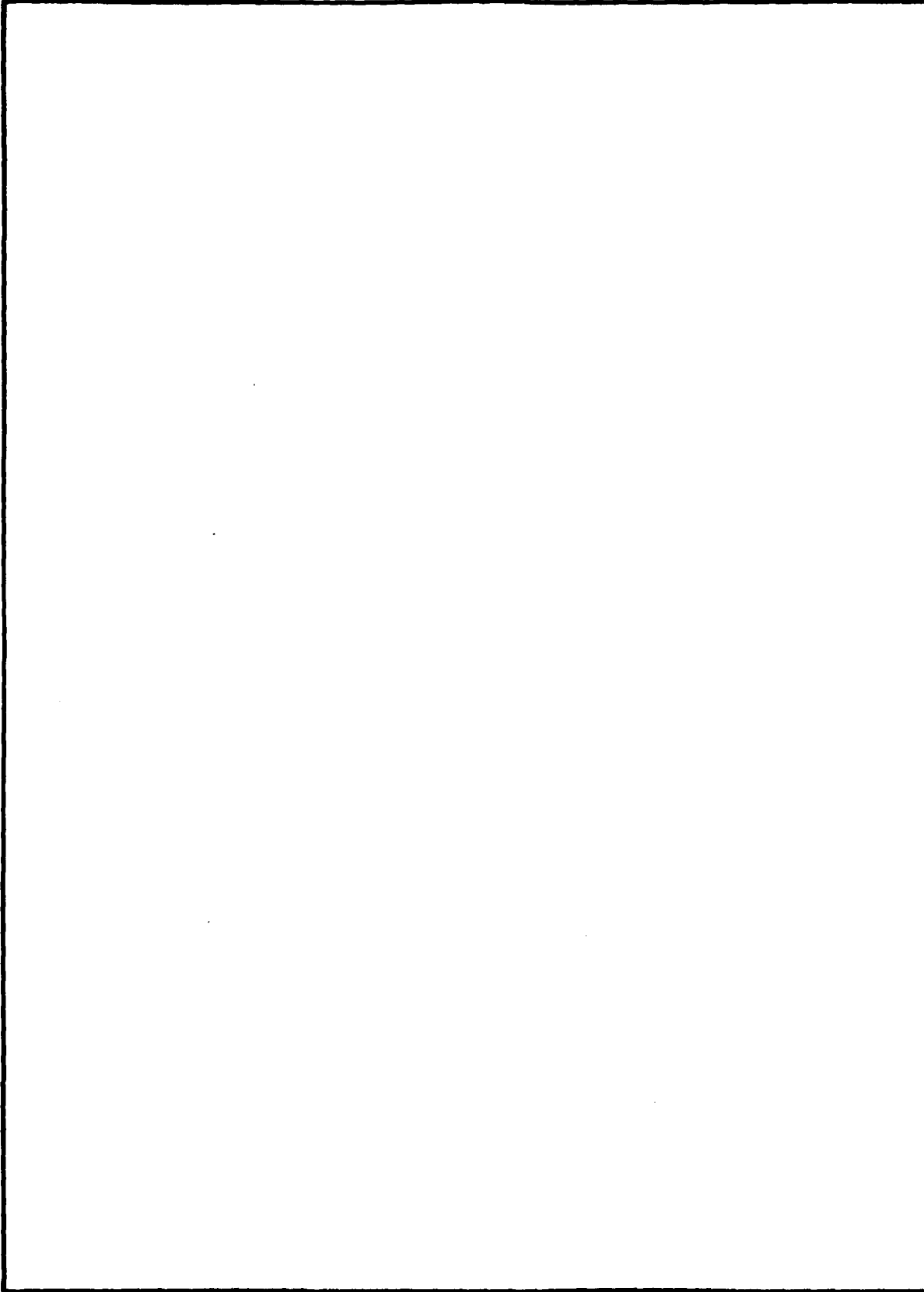
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19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 19310A MLRS, Missile Numbers BN124, BN138, BN171, BN127, BN133, BN136, Round Numbers V-274/PQ-14, V-275/PQ-15, V-276/PQ-16, V-277/PQ-17, V-278/PQ-18, V-279/PQ-19 are presented in tabular form.		

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CONTENTS

PAGE

INTRODUCTION-----	1
DISCUSSION-----	1
GENERAL AREA MAP-----	2
LAUNCH AREA DIAGRAM-----	3
TABLES	
1. Surface Observations Taken at 0850 and 0921 MDT at D3 ₂ --	4
2. 60 and 90 foot Anemometer Measured Wind Data-----	5
3. Launch and Impact Area pilot-balloon Measured Wind Data at 0850 MDT-----	6
4. Launch and Impact Area pilot-balloon Measured Wind Data at 0920 MDT-----	7
5. Aiming and T-Time Computer Met Messages-----	8
6. E-28 Significant Level Data at 0510 MDT-----	10
7. E-28 Upper Air Data at 0510 MDT-----	12
8. E-28 Mandatory Levels at 0510 MDT-----	17
9. NW-30 Significant Level Data at 0600 MDT-----	18
10. NW-30 Upper Air Data at 0600 MDT-----	19
11. NW-30 Mandatory Levels at 0600 MDT-----	23
12. E-28 Significant Level Data at 0745 MDT-----	24
13. E-28 Upper Air Data at 0745 MDT-----	26
14. E-28 Mandatory Levels at 0745 MDT-----	31
15. NW-30 Significant Level Data at 0845 MDT-----	32
16. NW-30 Upper Air Data at 0845 MDT-----	34
17. NW-30 Mandatory Levels at 0845 MDT-----	38

INTRODUCTION

19310A MLRS, Missile Numbers BN-124, BN-138, BN-171, BN-127, BN-133, and BN-136, Round Numbers V-274/PQ-14, V-275/PQ-15, V-276/PQ-16, V-277/PQ-17, V-278/PQ-18, V-279/PQ-19, were launched from BRILLO, White Sands Missile Range (WSMR), New Mexico, at 0850:27, 0850:31, 0850:36, 0921:00, 0921:05, and 0921:09 MDT, 14 June 1982. The scheduled launch times were 0830, 0830:04.5, 0830:09, 0900, 0900:04.5, and 0900:09 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 $\text{D3}\frac{1}{2}$ Met Site at T-0 minutes.

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

b. Upper Air

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

SITE AND ALTITUDE

$\text{D3}\frac{1}{2}$ 2 km
DEAD HORSE 2 km

(2) Air structure data (rawinsonde) were collected at the following Met Sites:

SITE AND TIME

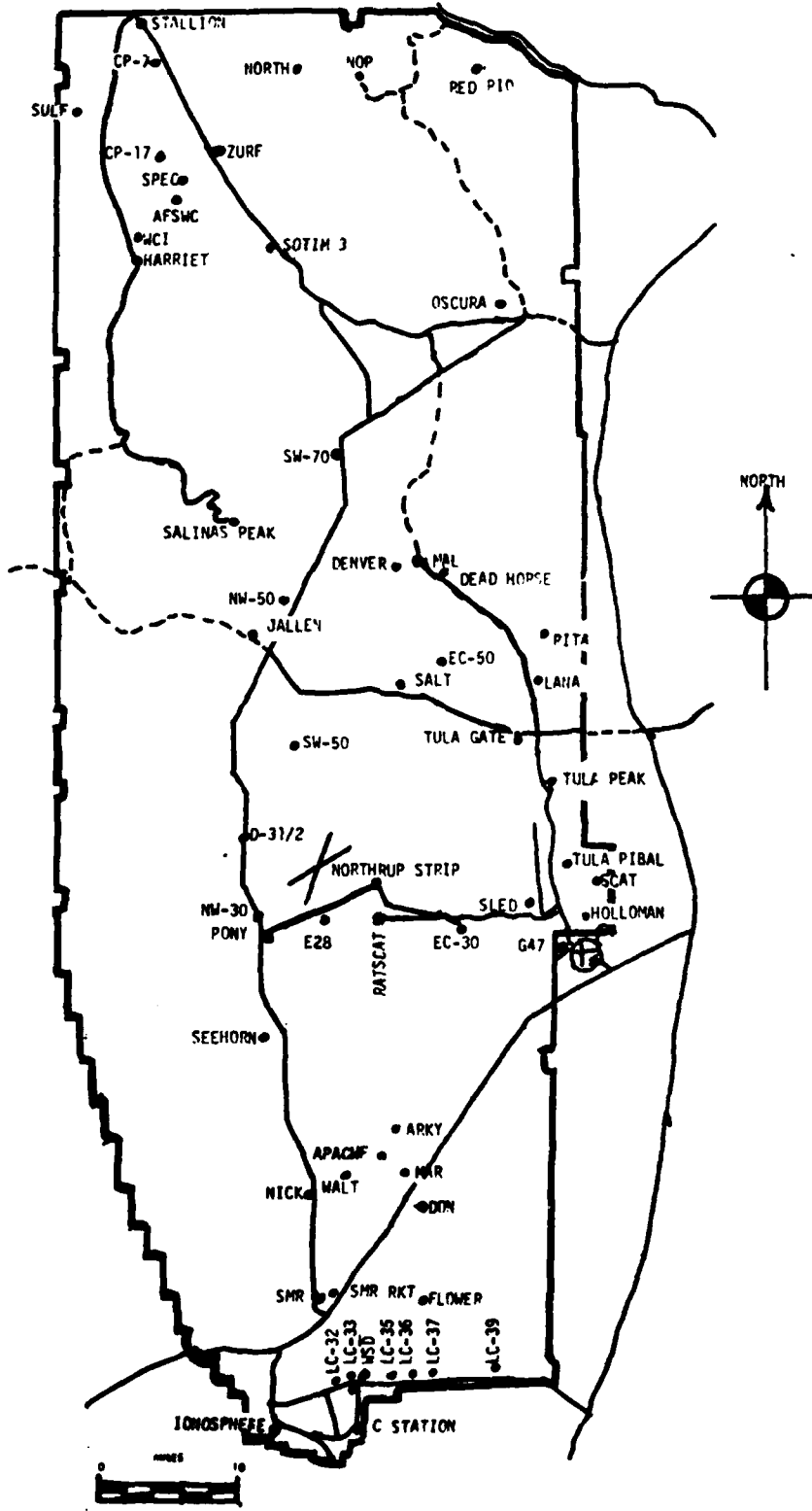
E-28 0510 MDT
NW-30 0600 MDT
E-28 0745 MDT
NW-30 0845 MDT

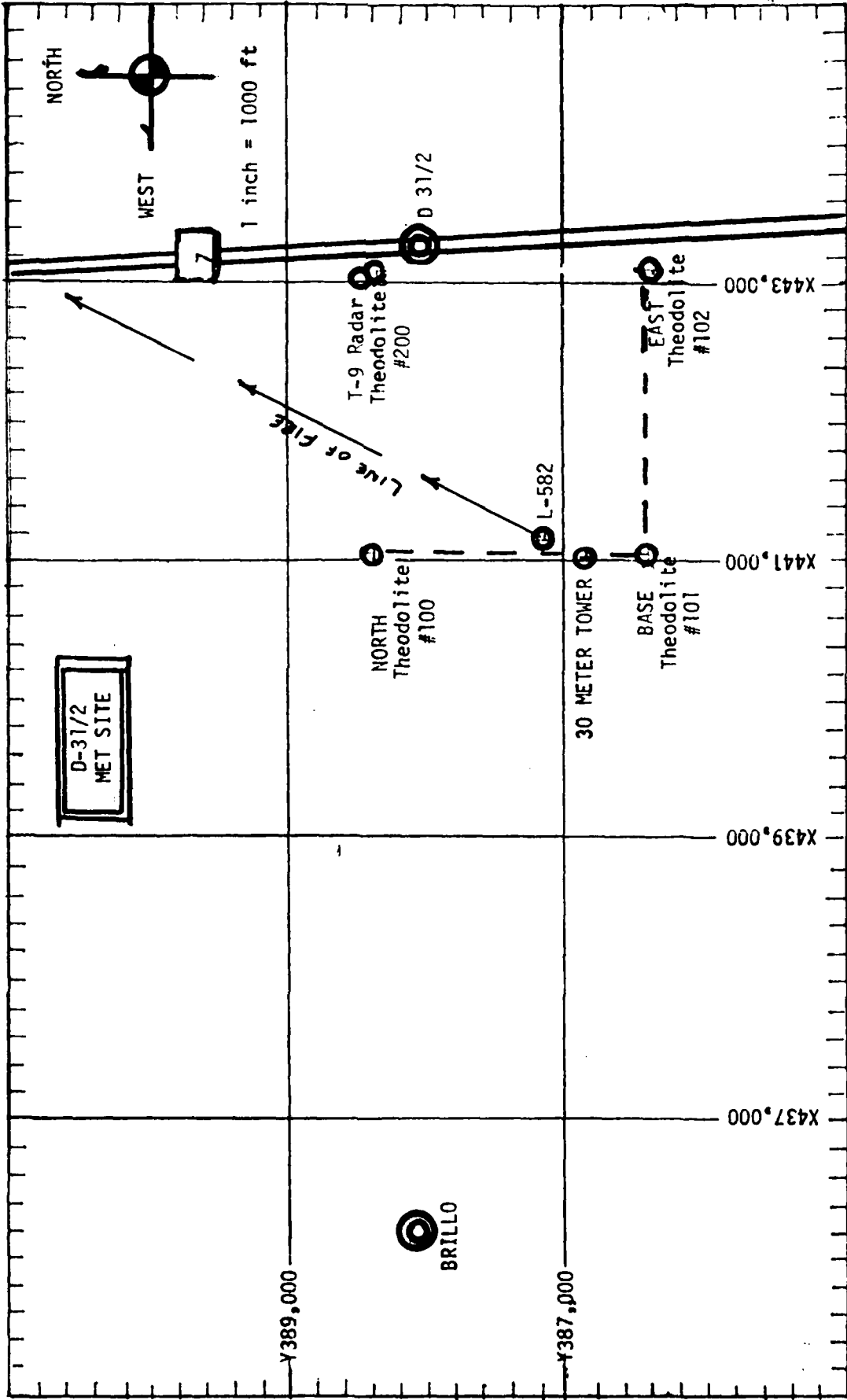


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Distribution/	
Availability Codes	
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A	23 C

WSMR METEOROLOGICAL SITES





PROJECT SURFACE OBSERVATION

TABLE 1 STATION D 3 1/2

DATE 14 June 82 Y = 441,121.6 X = 387,107.8 H = 4005.2

TIME M D I	PRESSURE HGS	TEMPERATURE C	DEW POINT C	RELATIVE HUMIDITY %	SEAS HGT	WIND DIRECTION DEGS TO	WIND SPEED KTS	WIND CHARACTER KTS	VISIBIL- ITY
0921	874.2	28.3	6.3	25	1002	115	10		50

OBSTRUCTIONS TO VISIBILITY	CLOUDS			REMARKS
	1st LAYER AMT TYPE HGT	2nd LAYER AMT TYPE HGT	3rd LAYER AMT TYPE HGT	
				CLEAR
				CLEAR

PSYCHROMETRIC COMPUTATION

TIME:	0850	0921
DRY BULB TEMP.	25.0	28.3
WET BULB TEMP.	17.1	15.0
WET BULB DEPR.	7.9	13.3
DEW POINT	13.1	6.3
RELATIVE HUMID.	48	25

TABLE 2

ANEMOMETER DATA 60 and 90 FEET LEVELS OF 30 METER TOWER
 $X = 441,019.71$ $Y = 386,849.19$ $U = 4,004.90$ (BASE)

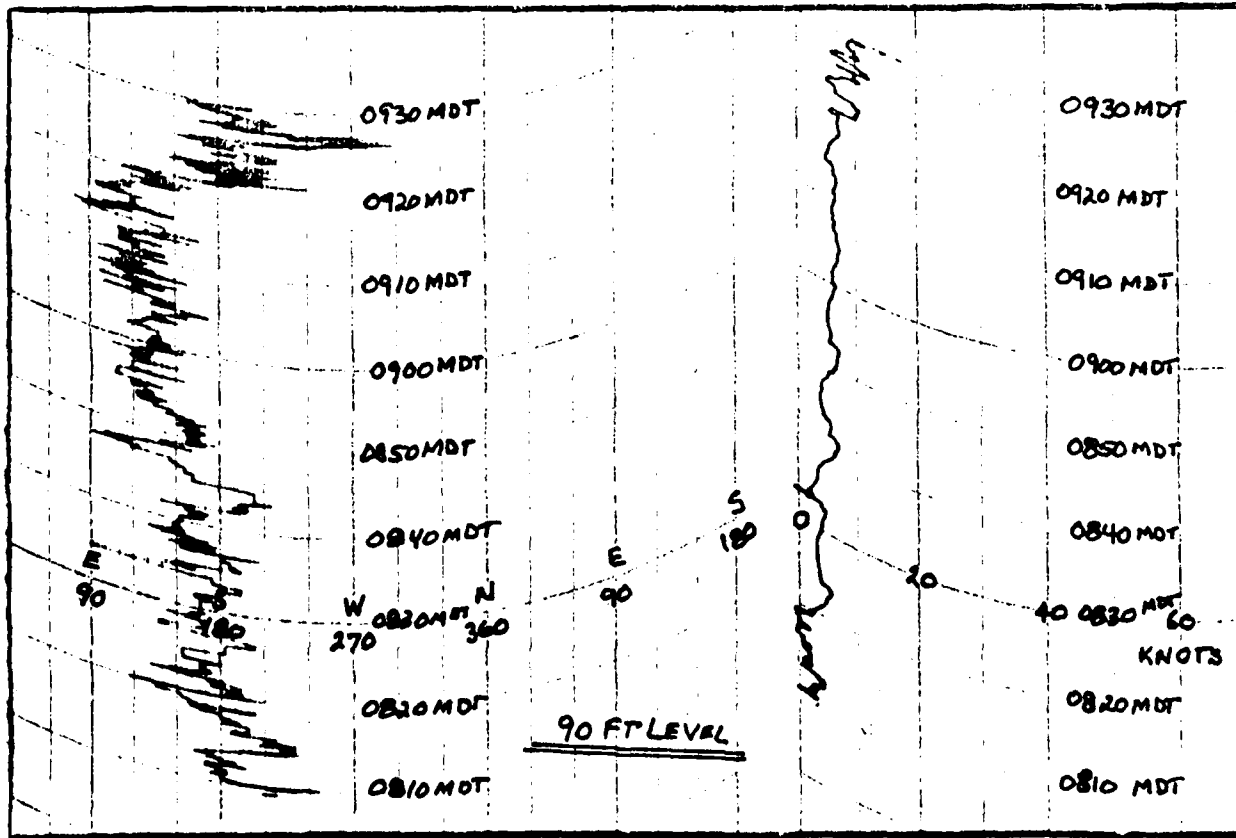
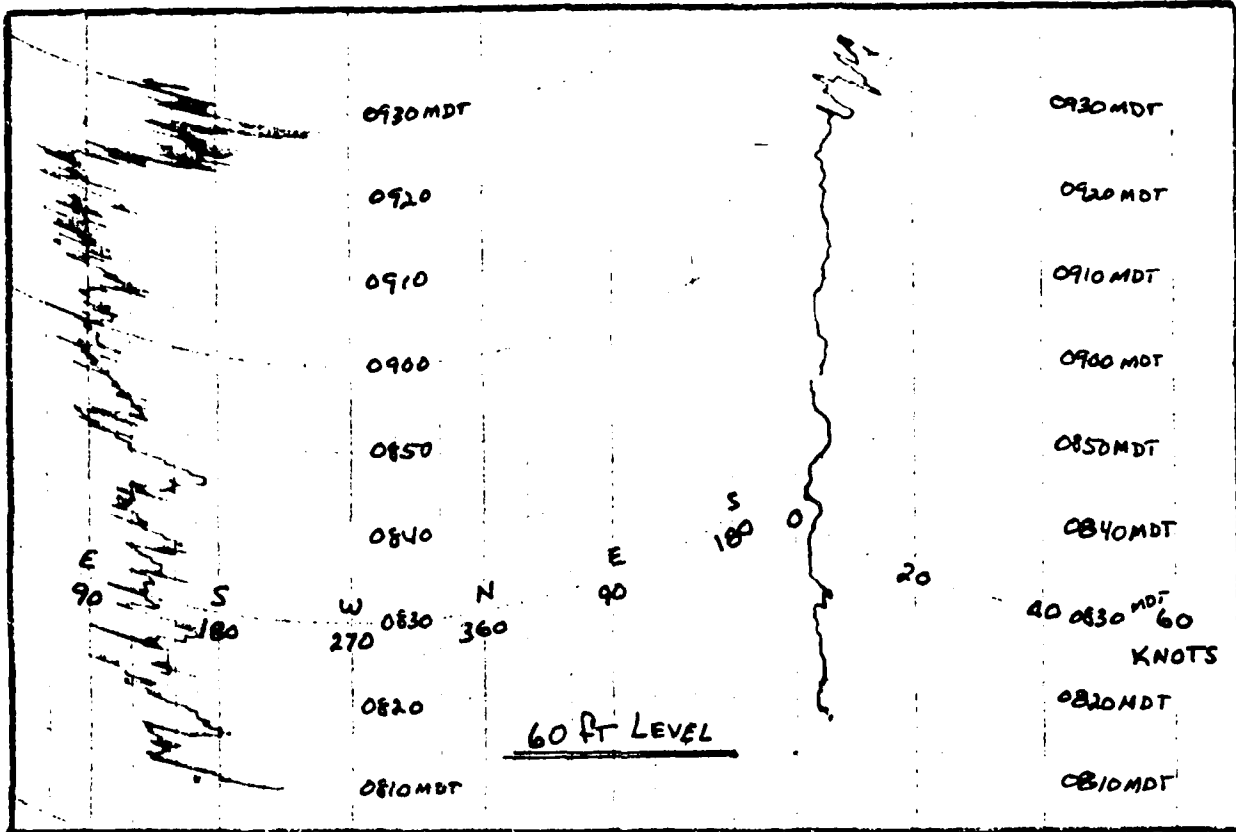


TABLE 3

7-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 14 June 1982

SITE: D 3½
TIME: 0850 MDT
WSTM COORDINATES:
X- 441,053.12
Y- 386,316.94
H= 4,008.31

SITE: DEAD HORSE
TIME 0850 MDT
WSTM COORDINATES:
X=519,982.11
Y=490,249.23
H= 4,133.12

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	110	05
150	138	06
210	147	05
270	162	04
330	186	03
390	215	04
500	241	08
650	224	13
800	225	15
950	229	18
1150	237	21
1350	234	22
1550	231	24
1750	233	24
2000	228	26

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	200	08
150	195	10
210	190	12
270	184	14
330	179	16
390	182	18
500	189	23
650	205	24
800	213	27
950	216	30
1150	221	30
1350	225	31
1550	227	31
1750	225	32
2000	225	33

TABLE 4

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 14 June 1982

SITE: D 3½
TIME: 0920 MDT
WSTM COORDINATES:
X= 441,053.12
Y= 386,316.94
H= 4,008.31

SITE: DEAD HORSE
TIME: 0925 MDT
WSTM COORDINATES:
X= 519,982.11
Y= 490,249.23
H= 4,133.12

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	115	09
150	138	09
210	146	10
270	153	10
330	159	09
390	168	07
500	192	06
650	238	08
800	256	13
950	255	15
1150	245	17
1350	236	19
1550	239	23
1750	229	25
2000	222	26

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	240	10
150	200	18
210	196	20
270	195	20
330	194	20
390	195	21
500	198	22
650	206	23
800	215	27
950	218	28
1150	224	26
1350	230	28
1550	229	26
1750	223	30
2000	220	33

TABLE-5

AIMING AND T-TIME COMPUTER MET MESSAGES
14 June 1982

E-28 0510 MDT		NW-30 0600 MDT	
METCM1329064		METCM1329065	
141120119878		141200122874	
00391008	29350878	00427003	29350874
01298020	29380868	01330018	29410864
02288023	29430843	02324016	29540839
03367023	29370805	03389016	29440801
04449021	29130759	04442018	29020756
05456020	28660716	05445018	28570712
06406018	28260674	06401020	28130671
07370019	27920634	07380024	27760631
08390023	27620597	08395028	27580593
09396051	27160561	09398044	27180558
10391047	26750526	10395043	26750524
11390041	26310494	11400043	26350491
12422044	25750447	12422043	25800445
13450041	25110391	13448044	25070389
14456043	24280341	14453045	24320339
15468040	23450296	15465045	23510294
16477051	22660255	16476053	22720254
17484063	21890219	17481073	21980218
18503066	21490187	18504068	21670187
19499053	21100160	19505054	21250159
20479045	20850136	20487043	20900136
21464045	20620115	21472037	20740115
22505013	20760098	22474025	20760098
23459015	20760083	23559006	20830083
24455009	21030071	24601003	21050071
25128010	21480060	25137007	21400060
26189011	21720051	26186010	21780051

TABLE-5 cont'd

AIMING AND T-TIME COMPUTER MET MESSAGES CONT'D
14 June 1982

E-28 0510 MDT	NW-30 0845 MDT
METCM1329064	METCM1329065
141380119878	141480122875
00391010 29430878	00427005 29800875
01291018 29480868	01301013 29880865
02334019 29620843	02351010 29710840
03412019 29520805	03425014 29330802
04409022 29060760	04400022 28870757
05400023 28580716	05406027 28440713
06410026 28210674	06398029 28080671
07408026 27960635	07415031 27800631
08415029 27620597	08420033 27650594
09414036 27240561	09415034 27360558
10407038 26890527	10416033 26940524
11409043 26560494	11421036 26500492
12426045 25940448	12427038 25840446
13444050 25260392	13450043 25120390
14455047 24510342	14463048 24360340
15458048 23690297	15464051 23560295
16468061 22950257	16479059 22830255
17486071 22310221	17495070 22260219
18497070 21840189	18400058 21820188
19508052 21430162	19497033 21340160
20472042 20860138	20479037 20830137
21481045 20840117	21484038 20740116
22513012 21180100	22502026 21060099
23478006 20990085	23478008 20870084
24587001 21160072	24189005 21150071
25120008 21510062	25170006 21560061
26214007 21780053	26162007 21880052

STATION ALTITUDE 3912.75 FEET MSL
 14 JUNE 82 0510 MDT
 ASCENSION NO. 56

SIGNIFICANT LEVEL DATA
 1650290000
 L-28

GEODLTIC COORDINATES
 32.89927 LAT DEG
 106.40591 LON DEG

TABLE-6

GEOMETRIC ALTITUDE FEET	GEOMETRIC ALTITUDE METERS	AIR TEMPERATURE DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
3912.7	1192.7	18.1	13.0	75.0
3812.0	1166.0	18.5	13.0	75.0
3712.0	1139.0	19.4	14.0	74.0
3612.0	1112.0	17.7	11.9	69.0
3512.0	1085.0	17.5	11.3	67.0
3412.0	1058.0	19.8	4.7	37.0
3312.0	1031.0	19.8	3.1	33.0
3212.0	1004.0	15.0	-1.9	30.0
3112.0	977.0	10.8	-4.0	35.0
3012.0	950.0	5.3	-13.0	24.0
2912.0	923.0	3.9	-18.2	18.0
2812.0	896.0	-2.7	-19.7	36.0
2712.0	869.0	-6.5	-20.2	19.0
2612.0	842.0	-7.5	-27.1	19.0
2512.0	815.0	-9.4	-28.7	19.0
2412.0	788.0	-14.7	-32.1	21.0
2312.0	761.0	-18.8	-32.5	29.0
2212.0	734.0	-20.5	-34.0	27.0
2112.0	707.0	-37.8	-49.4	28.0
2012.0	680.0	-49.3		
1912.0	653.0	-54.3		
1812.0	626.0	-57.0		
1712.0	599.0	-58.5		
1612.0	572.0	-58.1		
1512.0	545.0	-60.0		
1412.0	518.0	-64.3		
1312.0	491.0	-63.4		
1212.0	464.0	-66.6		
1112.0	437.0	-67.7		
1012.0	410.0	-66.5		
912.0	383.0	-66.5		
812.0	356.0	-64.5		
712.0	329.0	-65.6		
612.0	302.0	-64.4		
512.0	275.0	-62.5		
412.0	248.0	-62.3		
312.0	221.0	-60.3		
212.0	194.0	-55.5		
112.0	167.0	-55.8		

STATION ALTITUDE 3912.75 FEET MSL
 14 JUNE 62 0510 MDT
 ASCENSION 110. 06

STATION LANT LEVEL DATA
 165029000
 L-28

GEODETIC COORDINATES:
 32.09927 LAT DEG
 106.40591 LONG DEG

TABLE-6 cont'd

GEOMETRIC ALTITUDE	TEMPERATURE	REL. HUM.
MILLIBARS MSL FELT	AIR DEGREE	PERCENT
	CELSIUS	
35.2	75.0	92.2
30.0	79.5	87.8
27.3	81.4	86.0
23.4	84.1	86.6
20.0	88.2	82.1

STATION ALTITUDE 3912.75 FEET MSL
 14 JUNE 62 0510 MDT
 ASCENSION NO. 06

UPPER AIR DATA
 1650290000
 L-28
 TABLE-7

GEODETIC COORDINATES
 32.64927 LAT DEG
 106.40591 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	TEMPERATURE DEWPOINT	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	INDEX OF REFRACTION	WIND DATA SPEED KNOTS	WIND DIRECTION DEGREES (TRUE)
3912.7	877.7	18.1	13.0	75.0	1042.0	667.1		0.0	1.000302
4000.0	873.0	18.2	13.0	74.7	1039.3	667.2		0.5	1.000301
4500.0	859.6	18.6	13.7	73.1	1019.3	667.8		11.5	1.000297
5000.0	844.6	19.1	14.1	73.1	999.5	668.4		14.8	1.000294
5500.0	829.8	19.2	12.7	70.5	985.4	667.2		18.1	1.000285
6000.0	815.2	17.8	10.7	62.9	970.2	668.5		21.4	1.000274
6500.0	800.9	19.8	4.7	37.1	946.5	668.1		20.9	1.000249
7000.0	785.8	19.4	2.0	32.7	933.7	667.5		21.1	1.000241
7500.0	772.9	18.2	1.1	31.0	921.3	668.0		20.7	1.000235
8000.0	759.3	17.0	-2.3	31.0	909.0	668.5		20.7	1.000230
8500.0	745.9	15.8	-1.7	30.1	896.9	669.1		20.9	1.000224
9000.0	732.5	14.4	-2.4	31.3	883.2	669.5		21.0	1.000221
9500.0	719.4	12.9	-3.0	32.8	873.7	659.8		20.6	1.000217
10000.0	706.5	11.5	-3.7	34.2	862.4	658.1		20.2	1.000214
10500.0	693.7	10.3	-4.8	34.0	850.0	659.7		19.0	1.000210
11000.0	681.0	9.3	-5.5	32.0	838.2	659.4		18.4	1.000205
11500.0	668.6	8.3	-8.2	30.0	826.0	654.2		18.2	1.000200
12000.0	656.3	7.3	-10.0	28.0	814.0	652.9		18.6	1.000195
12500.0	644.4	6.3	-11.8	25.9	802.2	651.7		18.6	1.000191
13000.0	632.6	5.3	-13.7	23.9	790.5	650.5		18.5	1.000188
13500.0	620.9	4.7	-15.6	21.3	777.7	649.7		19.8	1.000182
14000.0	609.4	4.1	-17.6	18.7	765.1	648.9		21.3	1.000178
14500.0	598.0	2.9	-17.4	20.8	754.0	648.0		20.5	1.000170
15000.0	586.8	1.5	-16.6	24.6	743.5	648.0		36.9	1.000174
15500.0	575.7	.1	-16.0	28.4	733.2	644.3		42.0	1.000172
16000.0	564.9	-1.3	-15.8	32.2	723.1	642.7		46.4	1.000170
16500.0	554.3	-2.7	-15.7	36.0	713.2	641.1		45.6	1.000168
17000.0	543.7	-3.8	-16.4	31.0	702.0	639.7		44.0	1.000164
17500.0	533.3	-4.9	-21.4	26.1	692.1	638.3		46.3	1.000160
18000.0	523.1	-6.0	-21.7	21.1	681.0	638.9		47.0	1.000156
18500.0	513.1	-7.4	-27.0	19.0	672.2	633.2		45.5	1.000153
19000.0	503.1	-8.9	-28.3	19.0	663.0	633.4		43.4	1.000151
19500.0	493.2	-10.2	-29.2	19.3	653.1	631.9		40.5	1.000148
20000.0	483.5	-11.3	-29.9	19.7	643.1	630.5		39.4	1.000146
20500.0	474.0	-12.5	-30.6	20.2	633.2	629.1		39.7	1.000144
21000.0	464.7	-13.6	-31.4	20.6	623.5	627.8		41.7	1.000141
21500.0	455.6	-14.7	-32.1	21.1	613.9	626.4		44.2	1.000139
22000.0	446.4	-15.8	-32.0	23.1	604.1	625.1		44.5	1.000137
22500.0	437.5	-16.9	-32.1	25.2	594.4	623.6		45.1	1.000135
23000.0	428.7	-17.9	-32.2	27.3	585.0	622.5		45.2	1.000133

STATION ALTITUDE 3912.75 FEET MSL
 14 JUNE 62
 ASCENSION NO. 66

UPPER AIR DATA
 1650290000
 L-2B

GEODETTIC COORDINATES
 32.69927 LAT DEG
 106.40591 LON DEG

TABLE-7 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUMID. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND M/SEC	WIND DIRECTION (DEGREES TRUE)	WIND SPEED KNOTS	INDEX OF REFRACTION
23500.0	420.1	-18.8	28.8	575.2	621.4	248.3	45.4	1.000130
24000.0	411.6	-19.2	27.8	564.4	621.0	250.2	44.7	1.000128
24500.0	403.3	-20.2	27.2	555.2	619.7	252.0	43.9	1.000126
25000.0	394.9	-21.4	27.0	546.3	618.3	253.2	42.9	1.000123
25500.0	386.6	-22.6	27.1	537.3	616.7	254.3	41.8	1.000121
26000.0	378.5	-23.9	27.2	528.9	615.1	254.2	41.3	1.000119
26500.0	370.5	-25.2	27.3	520.4	613.5	253.5	41.1	1.000117
27000.0	362.7	-26.4	27.3	512.1	612.0	254.1	41.3	1.000115
27500.0	355.1	-27.7	27.4	504.0	610.4	255.2	41.7	1.000113
28000.0	347.7	-29.0	27.5	495.9	608.8	256.7	42.1	1.000111
28500.0	340.3	-30.3	27.6	488.1	607.2	258.3	42.5	1.000110
29000.0	333.2	-31.5	27.6	480.3	605.6	258.9	42.0	1.000108
29500.0	326.2	-32.8	27.7	472.7	604.0	259.2	41.1	1.000106
30000.0	319.3	-34.1	27.8	465.2	602.4	259.5	39.7	1.000104
30500.0	312.6	-35.3	27.9	457.9	600.8	259.6	38.2	1.000103
31000.0	306.0	-36.6	27.9	450.7	599.2	261.2	37.8	1.000101
31500.0	299.6	-37.9	27.8**	443.5	597.6	263.2	38.0	1.000099
32000.0	293.9	-39.3	24.3**	436.3	595.7	264.9	38.7	1.000098
32500.0	288.3	-40.7	20.8**	429.2	593.9	266.4	39.5	1.000096
33000.0	282.9	-42.2	17.4**	422.2	592.1	268.1	42.3	1.000094
33500.0	277.7	-43.6	13.9**	415.3	590.3	269.3	45.4	1.000093
34000.0	272.6	-45.0	10.4**	408.6	588.4	269.1	48.1	1.000091
34500.0	267.6	-46.4	7.0**	402.0	586.6	269.7	50.7	1.000090
35000.0	262.8	-47.9	3.5**	395.3	584.7	267.9	51.9	1.000088
35500.0	258.1	-49.3	.0**	389.1	582.9	269.3	52.6	1.000087
36000.0	244.3	-50.2		381.7	581.7	269.9	54.4	1.000085
36500.0	238.6	-51.1		374.4	580.5	270.0	56.7	1.000083
37000.0	233.1	-52.1		367.3	579.3	270.7	58.1	1.000082
37500.0	227.7	-53.0		360.3	578.1	271.3	59.1	1.000080
38000.0	222.4	-53.9		353.4	576.9	272.0	60.7	1.000079
38500.0	217.2	-54.7		346.4	575.6	273.7	62.5	1.000077
39000.0	212.1	-55.3		339.3	574.4	274.6	64.9	1.000076
39500.0	207.1	-56.0		332.3	573.1	275.9	67.6	1.000074
40000.0	202.3	-56.7		325.3	571.8	277.3	68.3	1.000072
40500.0	197.5	-57.3		318.7	570.5	279.1	67.7	1.000071
41000.0	192.8	-57.9		312.0	571.5	280.7	66.6	1.000069
41500.0	188.2	-58.5		305.4	570.8	282.4	65.3	1.000068
42000.0	183.7	-58.3		297.9	571.0	283.9	64.0	1.000066
42500.0	179.3	-58.1		290.3	571.3	285.1	62.9	1.000065
43000.0	175.0	-58.9		284.6	570.2	286.1	61.7	1.000063

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

STATION ALTITUDE 3912.75 FEET MSL
 14 JUNE 62
 ASCENSION I.O. 66 0510 MDT

UPPER AIR DATA
 1630290000
 1-2-B

GEODETTIC COORDINATES
 52.09927 LAT DEG
 106.40591 LONG DEG

TABLE-7 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC CM	SPEED OF SOUND METERS PER SECOND	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
43500.0	170.6	-59.7	59.7	276.6	569.1	285.1	59.5	1.000062
44000.0	166.7	-60.5	60.5	273.1	568.1	284.1	57.3	1.000061
44500.0	162.7	-61.3	61.3	267.5	567.0	282.0	54.7	1.000060
45000.0	158.7	-62.1	62.1	262.0	565.9	279.5	52.2	1.000058
45500.0	154.9	-62.9	62.9	256.7	564.8	277.5	50.5	1.000057
46000.0	151.2	-63.7	63.7	251.5	563.8	275.7	49.6	1.000056
46500.0	147.5	-64.1	64.1	245.7	563.5	274.0	48.9	1.000055
47000.0	143.9	-64.2	64.2	239.6	563.2	272.7	48.8	1.000055
47500.0	140.4	-64.2	64.2	234.1	563.1	271.4	48.8	1.000052
48000.0	136.9	-63.5	63.5	227.5	564.1	269.0	48.4	1.000051
48500.0	133.6	-64.1	64.1	222.5	563.3	267.9	47.7	1.000050
49000.0	130.3	-64.8	64.8	217.6	562.4	266.0	47.0	1.000049
49500.0	127.1	-65.5	65.5	213.2	561.4	264.7	46.1	1.000047
50000.0	124.0	-66.2	66.2	208.7	560.4	263.5	45.3	1.000046
50500.0	120.9	-67.0	67.0	204.5	559.4	262.5	43.4	1.000045
51000.0	117.9	-67.6	67.6	199.6	558.0	263.0	40.3	1.000044
51500.0	115.0	-68.8	68.8	194.1	557.7	263.2	37.0	1.000043
52000.0	112.1	-68.5	68.5	189.0	560.0	264.6	32.2	1.000042
52500.0	109.7	-66.5	66.5	184.4	560.0	266.4	27.4	1.000041
53000.0	106.7	-66.5	66.5	179.0	560.0	269.5	22.0	1.000040
53500.0	104.0	-66.5	66.5	175.5	560.0	275.0	16.4	1.000039
54000.0	101.5	-65.4	65.4	170.1	561.0	283.0	12.0	1.000038
54500.0	99.0	-64.6	64.6	165.5	562.7	274.2	16.3	1.000037
55000.0	96.5	-64.7	64.7	161.5	562.5	269.1	20.8	1.000036
55500.0	94.2	-64.8	64.8	157.4	562.3	265.2	27.1	1.000035
56000.0	91.8	-64.9	64.9	153.7	562.2	262.4	35.1	1.000034
56500.0	89.6	-65.1	65.1	150.0	562.0	260.0	43.3	1.000033
57000.0	87.4	-65.2	65.2	146.4	561.8	259.5	51.8	1.000033
57500.0	85.2	-65.3	65.3	142.5	561.7	258.7	60.4	1.000032
58000.0	83.2	-65.4	65.4	139.5	561.5	258.1	67.0	1.000031
58500.0	81.1	-65.6	65.6	136.1	561.3	257.7	69.3	1.000030
59000.0	79.1	-65.4	65.4	132.6	561.0	257.4	71.6	1.000030
59500.0	77.2	-65.0	65.0	129.2	562.1	257.2	61.0	1.000029
60000.0	75.3	-64.6	64.6	125.6	562.0	257.0	47.1	1.000028
60500.0	73.4	-62.9	62.9	121.7	564.9	256.0	33.6	1.000027
61000.0	71.7	-62.4	62.4	118.5	565.0	255.7	21.9	1.000026
61500.0	69.9	-62.3	62.3	115.5	565.7	252.0	10.0	1.000026
62000.0	68.2	-61.9	61.9	112.5	566.3	244.8	3.7	1.000025
62500.0	66.6	-61.4	61.4	109.6	566.9	199.0	1.4	1.000024
63000.0	65.0	-61.0	61.0	106.7	567.4	61.1	0.7	1.000024

STATION ALTITUDE 3,12.75 FEET MSL
 14 JUNE 82
 ASCENSION 110. 06

UPPER AIR DATA
 1050290000
 L-28
 TABLE-7 cont'd

GEODETIC COORDINATES
 32.85927 LAT UEG
 106.40591 LONG UEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SOUND SPEED METERS PER SECOND	WIND DATA DIRECTION (IN) SPEED (KNOTS)	INDEX OF REFRACTION
63500.0	62.4	-40.6		103.9	563.0	77.5	1.000023
64000.0	61.9	-39.7		101.1	569.1	70.7	1.000023
64500.0	60.4	-38.3		96.0	571.0	60.5	1.000022
65000.0	59.0	-36.9		93.1	572.9	60.4	1.000021
65500.0	57.6	-35.5		92.2	574.7	60.4	1.000021
66000.0	56.3	-35.6		90.1	574.7	70.5	1.000020
66500.0	54.9	-35.6		86.0	574.0	70.0	1.000020
67000.0	53.6	-35.7		83.9	574.5	70.0	1.000019
67500.0	52.4	-35.7		83.9	574.5	70.0	1.000019
68000.0	51.2	-35.8		82.0	574.4	70.5	1.000018
68500.0	50.0	-35.8		80.1	574.4	70.5	1.000018
69000.0	48.8	-35.6		78.1	574.0	70.1	1.000017
69500.0	47.6	-35.4		76.2	574.0	70.0	1.000017
70000.0	46.5	-35.3		74.4	573.1	70.0	1.000017
70500.0	45.4	-35.1		72.0	573.3	70.0	1.000016
71000.0	44.4	-34.9		70.9	573.5	73.0	1.000016
71500.0	43.4	-34.7		69.1	573.7	71.0	1.000015
72000.0	42.3	-34.6		67.5	570.0	69.1	1.000015
72500.0	41.4	-34.4		65.9	570.2	68.7	1.000015
73000.0	40.4	-34.2		64.3	570.4	68.2	1.000014
73500.0	39.4	-34.0		62.7	570.7	72.4	1.000014
74000.0	38.5	-33.9		61.2	570.9	78.0	1.000014
74500.0	37.6	-33.7		59.7	577.1	85.4	1.000013
75000.0	36.7	-33.5		58.3	577.4	95.5	1.000013
75500.0	35.9	-33.3		56.9	577.0	105.0	1.000013
76000.0	35.1	-33.1		55.5	570.0	111.0	1.000012
76500.0	34.2	-32.3		54.0	579.0	112.5	1.000012
77000.0	33.5	-31.5		52.0	580.0	112.0	1.000012
77500.0	32.7	-30.7		51.2	581.0	112.0	1.000011
78000.0	31.9	-29.9		49.9	582.1	110.0	1.000011
78500.0	31.2	-29.1		48.5	583.1	109.4	1.000011
79000.0	30.5	-28.4		47.3	584.1	110.7	1.000011
79500.0	29.8	-27.7		46.0	583.0	114.2	1.000010
80000.0	29.1	-27.2		44.9	583.5	110.0	1.000010
80500.0	28.5	-26.8		43.6	580.1	120.0	1.000010
81000.0	27.8	-26.4		42.0	585.7	120.0	1.000009
81500.0	27.2	-26.0		41.7	587.1	121.1	1.000009
82000.0	26.6	-25.1		40.8	587.0	119.5	1.000009
82500.0	26.0	-24.2		39.9	580.9	116.0	1.000009
83000.0	25.4	-23.3		39.0	580.0	113.9	1.000009

STATION ALTITUDE 3,12.75 FLT MSL
 14 JUNE 62 0510 MDT
 ASCENSION NO. 66

UPPER AIR DATA
 1050290000
 1-28
 TABLE-7 cont'd

GEOMETRIC ALTITUDE 3,12.75 FLT MSL
 14 JUNE 62 0510 MDT
 ASCENSION NO. 66

GEOMETRIC ALTITUDE MSL FELT	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (DEGREES TRUE)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
65500.0	24.8	-46.4		36.2	586.7	112.1	8.4	1.000000
64000.0	24.3	-46.5		37.3	586.6	111.0	9.4	1.000000
64500.0	23.7	-46.5		36.5	586.4	110.1	10.5	1.000000
65000.0	23.2	-46.4		35.6	586.7	111.4	11.1	1.000000
65500.0	22.7	-45.7		34.7	587.5	113.0	11.5	1.000000
66000.0	22.2	-45.1		33.9	586.4			1.000000
66500.0	21.7	-44.4		33.0	589.2			1.000000
67000.0	21.2	-43.8		32.2	590.0			1.000000
67500.0	20.7	-43.1		31.4	590.9			1.000000
68000.0	20.3	-42.5		30.6	591.7			1.000000

STATION ALTITUDE 3912.75 FEET MSL
 14 JUNE 62 0510 MDT
 ASCENSION 140. 66

MANDATORY LEVELS
 1650290000
 L-28

GEODETIC COORDINATES
 32.89927 LAT DEG
 106.40591 LONG DEG

TABLE-8

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	AIR TEMPERATURE DEGREES CENTIGRADE	TEMPERATURE DEVIATION PERCENT	REL. HUMID. PERCENT	WIND DATA		
					DIRECTION DEGREES(TN)	SPEED KNOTS	WIND DATA
850.0	4815.	19.4	14.0	74.	204.0	13.6	
800.0	6525.	19.8	4.0	37.	211.2	20.9	
750.0	6339.	16.1	-1.3	30.	250.4	20.8	
700.0	10244.	10.8	-4.0	35.	240.0	19.6	
650.0	12256.	6.7	-11.0	27.	210.5	18.6	
600.0	14398.	3.1	-17.5	20.	220.1	27.0	
550.0	16683.	-3.2	-16.6	34.	221.5	45.2	
500.0	19132.	-9.4	-28.7	19.	219.4	42.6	
450.0	21773.	-15.4	-32.0	22.	235.0	44.3	
400.0	24660.	-20.6	-34.6	27.	252.0	43.6	
350.0	27851.	-28.6	-41.5	27.	250.4	42.0	
300.0	31406.	-37.8	-49.4	20.	203.0	30.0	
250.0	35429.	-49.3			269.3	32.6	
200.0	40140.	-57.0			278.1	60.0	
175.0	42899.	-58.9			280.1	61.8	
150.0	46035.	-64.0			275.2	49.4	
125.0	49693.	-66.0			264.0	45.6	
100.0	54124.	-64.5			277.7	14.3	
80.0	58586.	-65.5			257.0	70.4	
70.0	61271.	-62.3			253.2	11.2	
60.0	64418.	-57.9			76.5	40.0	
50.0	68225.	-55.8			76.3	17.2	
40.0	72903.	-54.1			66.3	11.6	
30.0	79019.	-47.8			112.9	10.7	
25.0	82990.	-46.3			112.5	8.0	
20.0	87883.	-42.1					

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

STATION ALTITUDE 4010.40 FEET MSL
 14 JUNE 62 0600 MDT
 ASCENSION NO. 10

SIGNIFICANT LEVEL DATA
 10502.0010
 11W 30

GEODETIC COORDINATES
 32.88497 LAT DEG
 100.49714 LON DEG

TABLE-9

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		HLL. HUM. PERCENT
		AIR DEGREES	WIND CENTIGRADE	
873.9	4010.4	18.4	13.3	72.0
869.0	4169.3	19.1	13.9	72.0
850.0	4793.0	19.1	13.1	68.0
836.1	5263.2	21.7	7.5	40.0
819.2	5844.9	21.7	3.9	31.0
770.6	7573.6	17.8	-2.9	25.0
700.0	10236.2	10.5	-3.5	32.0
630.3	13069.4	3.5	-13.3	26.0
612.0	13855.1	3.6	-17.2	20.0
585.5	15032.2	2.0	-19.2	19.0
550.0	16677.0	-2.5	-22.9	19.0
500.0	19133.4	-8.9	-28.2	19.0
460.3	21223.0	-13.2	-30.3	22.0
413.8	23858.9	-19.5	-33.3	26.0
400.0	24686.0	-20.9	-34.9	27.0
363.0	27020.6	-26.4	-39.4	28.0
328.4	29378.7	-31.6	-44.3	27.0
300.0	31461.6	-37.1	-48.6	20.0
250.0	35527.5	-46.8		
218.1	38462.0	-53.9		
200.0	40286.3	-56.0		
187.0	41692.4	-56.8		
181.8	42282.5	-56.0		
167.2	44026.6	-58.7		
150.0	46251.9	-63.0		
140.2	47617.7	-64.7		
127.5	49533.2	-63.9		
112.1	52119.3	-66.5		
100.0	54398.7	-66.8		
97.3	54948.0	-64.2		
88.5	56857.1	-65.4		
74.4	60354.7	-64.0		
70.0	61593.3	-62.1		
62.8	63815.8	-60.8		
54.2	66806.6	-55.3		
50.0	68581.0	-55.3		
31.8	76198.8	-52.0		
30.0	79454.2	-49.5		

STATION ALTITUDE 1010.0 FEET MSL
 14 JUNE 62 0600 MDT
 ASCENSION NO. 10

UPPER AIR DATA
 1650220010
 17W 30

GEOMETRIC COORDINATES
 32.00497 LAT DEG
 106.49714 LON DEG

TABLE-10

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	DEW POINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION (MAGNETIC)	WIND SPEED KNOTS	INDEX OF REFRACTION
4010.0	875.9	18.4	13.3	72.0	1037.5	667.4	240.0	2.9	1.000299
4500.0	850.9	19.1	13.5	69.0	1016.9	660.3	215.0	5.9	1.000295
5000.0	843.9	20.2	11.1	55.7	996.1	669.3	205.0	9.3	1.000280
5500.0	829.2	21.7	6.1	36.3	975.5	670.4	204.4	12.7	1.000259
6000.0	814.7	21.3	3.3	30.5	960.5	679.8	203.2	14.8	1.000248
6500.0	800.4	20.2	1.5	28.7	947.4	680.3	219.5	15.6	1.000241
7000.0	786.4	19.1	-0.3	27.0	934.7	680.9	229.7	16.2	1.000235
7500.0	772.6	18.0	-2.2	25.3	922.2	680.0	239.1	16.9	1.000229
8000.0	758.8	16.6	-2.9	26.1	910.0	684.0	245.7	17.1	1.000225
8500.0	745.3	15.3	-3.4	27.4	898.0	682.4	251.0	17.3	1.000222
9000.0	731.9	13.9	-3.9	28.7	886.2	680.8	254.6	17.3	1.000218
9500.0	718.8	12.5	-4.5	30.1	874.6	679.2	258.9	17.2	1.000215
10000.0	706.0	11.1	-5.2	31.4	863.2	677.6	259.6	17.7	1.000212
10500.0	693.2	9.8	-6.2	31.6	851.5	676.1	253.4	18.4	1.000208
11000.0	680.5	8.6	-7.6	30.9	839.7	674.6	253.0	19.3	1.000204
11500.0	668.0	7.4	-8.9	30.2	828.1	673.1	224.3	20.4	1.000199
12000.0	655.8	6.1	-10.3	29.5	816.6	671.6	218.4	20.5	1.000195
12500.0	643.7	4.9	-11.7	28.8	805.5	670.1	214.4	21.4	1.000192
13000.0	631.9	3.7	-13.1	28.1	794.2	668.6	214.2	23.8	1.000188
13500.0	620.2	3.6	-15.3	23.6	779.9	668.4	216.4	27.1	1.000183
14000.0	608.7	3.4	-17.5	19.9	766.0	666.2	220.2	31.4	1.000178
14500.0	597.3	2.7	-18.3	19.5	755.6	667.4	221.6	33.7	1.000175
15000.0	586.2	2.0	-19.1	19.0	741.4	666.5	222.8	35.3	1.000172
15500.0	575.2	.7	-20.2	19.0	731.0	665.0	223.1	35.5	1.000169
16000.0	564.3	-0.6	-21.4	19.0	720.5	663.5	223.2	36.3	1.000166
16500.0	553.7	-2.0	-22.5	19.0	711.0	661.7	223.1	38.0	1.000164
17000.0	543.2	-3.3	-23.6	19.0	700.9	660.1	223.0	40.1	1.000161
17500.0	532.7	-4.6	-24.7	19.0	690.6	658.6	222.9	42.6	1.000158
18000.0	522.5	-5.9	-25.8	19.0	680.6	657.0	222.9	43.0	1.000156
18500.0	512.4	-7.2	-26.9	19.0	671.0	655.4	222.6	42.5	1.000153
19000.0	502.6	-8.6	-28.0	19.0	661.4	653.8	223.0	42.7	1.000151
19500.0	492.8	-9.7	-28.6	19.5	651.2	652.5	224.9	42.9	1.000148
20000.0	483.1	-10.7	-29.1	20.2	641.0	651.3	226.7	43.2	1.000146
20500.0	473.7	-11.7	-29.6	21.0	630.9	650.1	228.6	43.5	1.000143
21000.0	464.4	-12.7	-30.1	21.7	621.0	648.8	230.6	43.3	1.000141
21500.0	455.2	-13.9	-30.6	22.6	611.5	647.4	233.4	42.8	1.000139
22000.0	446.1	-15.1	-31.1	23.8	601.9	646.0	235.5	42.8	1.000137
22500.0	437.2	-16.3	-31.7	24.9	592.6	644.5	240.4	43.4	1.000134
23000.0	428.4	-17.4	-32.2	26.0	583.5	643.1	244.1	44.3	1.000132
23500.0	419.8	-18.6	-32.9	27.2	574.5	641.6	246.0	45.1	1.000130

UPPER AIR DATA
 1650220010
 RW 30

STATION ALTITUDE 4010.40 FLFT MSL
 14 JUNE 62
 ASCENSION NO. 10

GEOMETRIC ALTITUDE 4010.40 FLFT MSL
 14 JUNE 62
 ASCENSION NO. 10

TABLE-10 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION KNOTS	INDEX OF REFRACTION
24000.0	411.4	-19.7	27.0	565.4	620.1	247.0	1.000120
24500.0	403.1	-20.6	27.2	555.0	619.2	249.2	1.000126
25000.0	394.8	-21.6	27.1	546.7	617.4	250.0	1.000124
25500.0	386.7	-22.8	27.3	538.0	615.5	252.1	1.000121
26000.0	378.7	-24.0	27.6	529.4	613.0	253.7	1.000119
26500.0	370.9	-25.2	27.8	521.0	610.5	254.1	1.000117
27000.0	363.3	-26.4	28.0	512.7	612.1	255.9	1.000115
27500.0	355.7	-27.5	27.8	504.2	610.7	255.6	1.000113
28000.0	348.2	-28.6	27.6	495.9	609.3	255.4	1.000111
28500.0	340.9	-29.7	27.4	487.0	607.9	255.6	1.000110
29000.0	333.7	-30.8	27.2	479.0	606.0	254.2	1.000108
29500.0	326.7	-31.9	27.1	471.7	605.1	255.7	1.000106
30000.0	319.7	-33.2	27.3	464.1	603.5	257.3	1.000104
30500.0	312.8	-34.6	27.5	456.7	601.8	259.9	1.000102
31000.0	306.1	-35.9	27.8	449.3	600.1	260.5	1.000101
31500.0	299.5	-37.2	27.7**	442.1	598.5	261.4	1.000099
32000.0	292.8	-38.4	24.3**	434.5	596.9	262.1	1.000097
32500.0	286.4	-39.6	20.8**	427.1	595.4	263.5	1.000095
33000.0	280.0	-40.8	17.4**	419.7	593.9	265.0	1.000094
33500.0	273.8	-42.0	14.0**	412.0	592.4	266.0	1.000092
34000.0	267.7	-43.2	10.5**	405.5	590.8	266.7	1.000090
34500.0	261.8	-44.3	7.1**	398.0	589.3	267.2	1.000089
35000.0	256.0	-45.5	3.6**	391.0	587.7	267.0	1.000087
35500.0	250.3	-46.7		383.1	586.2	268.0	1.000086
36000.0	244.6	-47.9	-0.7	376.3	584.6	268.5	1.000084
36500.0	238.9	-49.2		371.0	583.1	268.5	1.000083
37000.0	233.4	-50.4		365.0	581.5	268.7	1.000081
37500.0	228.1	-51.6		358.5	579.9	268.6	1.000080
38000.0	222.8	-52.8		352.5	578.3	269.0	1.000078
38500.0	217.7	-53.9		346.0	576.8	270.0	1.000077
39000.0	212.6	-54.5		338.8	576.0	272.4	1.000075
39500.0	207.6	-55.1		331.7	575.3	274.2	1.000074
40000.0	202.7	-55.7		324.8	574.5	275.9	1.000072
40500.0	198.0	-56.1		317.8	573.9	277.6	1.000071
41000.0	193.5	-56.4		310.7	573.5	279.4	1.000069
41500.0	189.7	-56.7		303.7	573.2	281.2	1.000068
42000.0	184.5	-56.4		296.1	573.6	283.1	1.000066
42500.0	179.9	-56.3		289.1	573.6	285.1	1.000064
43000.0	175.6	-57.1		283.2	573.6	287.2	1.000063
43500.0	171.5	-57.9		277.5	573.6	289.9	1.000062

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

STATION ALTITUDE 4010.40 FEET MSL
 14 JUNL 62 0600 MDT
 ASCENSION NO. 10

UPPER AIR DATA
 1050220010
 TIM 30

TABLE-10 cont'd

GEOMETRIC COORDINATES
 32.88497 LAT DEG
 106.49714 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUMID. PERCENT	DENSITY GM/CUBIC METER	DEPTH OF SOUND METERS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
44000.0	167.4	-58.7		271.9	570.0	200.0	59.2	1.000001
44500.0	163.4	-59.6		260.5	509.5	205.2	56.6	1.000059
45000.0	159.4	-60.6		261.3	500.0	202.7	54.0	1.000058
45500.0	155.6	-61.5		250.2	500.7	200.2	51.7	1.000057
46000.0	151.9	-62.5		251.1	563.4	270.4	50.3	1.000056
46500.0	148.2	-63.3		240.0	504.3	270.5	49.1	1.000055
47000.0	144.6	-63.9		240.7	503.5	275.0	47.9	1.000054
47500.0	141.0	-64.6		235.5	502.7	275.7	46.7	1.000052
48000.0	137.6	-64.5		229.7	502.7	275.4	45.3	1.000051
48500.0	134.2	-64.3		223.9	503.0	274.0	42.9	1.000050
49000.0	130.9	-64.1		218.2	503.2	273.0	40.4	1.000049
49500.0	127.7	-63.9		212.0	503.5	272.0	38.7	1.000047
50000.0	124.6	-64.4		207.9	502.9	270.0	37.1	1.000046
50500.0	121.5	-64.9		203.2	502.2	208.5	36.2	1.000045
51000.0	118.5	-65.4		198.7	501.0	207.7	36.0	1.000044
51500.0	115.6	-65.9		194.3	500.9	200.0	36.2	1.000043
52000.0	112.8	-66.4		190.0	500.2	203.0	37.4	1.000042
52500.0	110.0	-66.6		185.4	500.0	200.7	38.6	1.000041
53000.0	107.3	-66.6		180.9	509.9	204.5	37.0	1.000040
53500.0	104.6	-66.7		176.5	509.8	204.2	36.9	1.000039
54000.0	102.0	-66.7		172.2	509.7	204.4	34.7	1.000038
54500.0	99.5	-66.3		167.0	500.3	203.0	30.1	1.000037
55000.0	97.0	-64.2		161.0	563.1	207.0	25.6	1.000036
55500.0	94.7	-64.5		158.1	562.7	271.3	20.5	1.000035
56000.0	92.3	-64.9		154.5	562.2	270.0	15.1	1.000034
56500.0	90.1	-65.2		150.9	501.0	293.5	10.2	1.000034
57000.0	87.9	-65.3		147.3	501.0	304.1	8.4	1.000033
57500.0	85.7	-65.1		143.0	501.9	314.0	7.3	1.000032
58000.0	83.6	-64.9		139.9	562.1	317.0	6.7	1.000031
58500.0	81.6	-64.7		136.4	502.4	303.4	6.5	1.000030
59000.0	79.6	-64.5		132.9	562.7	301.4	6.5	1.000030
59500.0	77.6	-64.3		129.5	562.9	301.4	6.4	1.000029
60000.0	75.7	-64.1		126.2	503.2	301.4	6.3	1.000028
60500.0	73.9	-63.8		122.9	503.7	303.0	5.5	1.000027
61000.0	72.1	-63.0		119.5	504.7	314.9	4.4	1.000027
61500.0	70.3	-62.2		116.2	503.0	303.1	3.3	1.000026
62000.0	68.6	-61.9		113.1	503.5	23.9	2.8	1.000025
62500.0	67.0	-61.6		110.3	500.7	58.9	4.4	1.000025
63000.0	65.4	-61.3		107.3	507.1	08.9	5.5	1.000024
63500.0	63.8	-61.0		104.7	567.3	13.0	5.1	1.000023

STATION ALTITUDE 4610.00 FEET MSL
 14 JUNE 82
 ASCENSION NO. 10

UPPER AIR DATA
 105020010
 11W 30

GEOMETRIC COORDINATES
 32.60497 LAT UEG
 106.49714 LON UEG

TABLE-10 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND METERS PER SECOND	WIND DIRECTION DEGREES (TH)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
		AIR DEGREES CELSIUS	DEWPOINT CELSIUS						
64000.0	62.2	-60.5			102.0	560.1	77.3	6.8	1.000023
64500.0	60.8	-59.6			99.1	569.3	77.3	6.0	1.000022
65000.0	59.3	-58.7			90.4	570.5	77.3	9.3	1.000021
65500.0	57.9	-57.8			93.7	571.7	79.5	10.4	1.000021
66000.0	56.5	-56.9			91.1	572.9	82.0	11.4	1.000020
66500.0	55.2	-56.0			88.5	574.1	85.0	12.2	1.000020
67000.0	53.9	-55.3			80.2	575.0	92.0	11.8	1.000019
67500.0	52.6	-55.3			84.2	575.0	99.7	11.6	1.000019
68000.0	51.4	-55.3			82.2	575.0	105.3	10.4	1.000018
68500.0	50.2	-55.3			80.3	575.0	111.7	8.6	1.000018
69000.0	49.0	-55.2			78.3	575.2	117.0	7.1	1.000017
69500.0	47.9	-55.0			76.5	575.4	108.1	6.5	1.000017
70000.0	46.8	-54.8			74.0	575.7	90.0	6.1	1.000017
70500.0	45.7	-54.6			72.0	575.9	84.0	6.6	1.000016
71000.0	44.6	-54.5			71.1	576.1	73.9	7.7	1.000016
71500.0	43.6	-54.3			69.4	576.3	60.0	9.0	1.000015
72000.0	42.6	-54.1			67.7	576.0	60.5	8.9	1.000015
72500.0	41.6	-54.0			60.1	576.0	60.5	8.8	1.000015
73000.0	40.6	-53.8			64.5	577.0	69.5	8.9	1.000014
73500.0	39.7	-53.6			62.9	577.2	77.3	9.3	1.000014
74000.0	38.7	-53.4			61.4	577.5	84.4	9.9	1.000014
74500.0	37.8	-53.3			60.0	577.7	87.3	11.3	1.000013
75000.0	37.0	-53.1			58.5	577.9	80.0	13.0	1.000013
75500.0	36.1	-52.9			57.1	578.1	89.7	14.6	1.000013
76000.0	35.3	-52.8			55.7	578.4	92.5	14.1	1.000012
76500.0	34.4	-52.6			54.4	578.6	95.0	13.7	1.000012
77000.0	33.6	-52.4			53.1	578.8			1.000012
77500.0	32.9	-52.2			51.0	579.0			1.000012
78000.0	32.1	-52.1			50.0	579.3			1.000011
78500.0	31.4	-51.4			49.3	580.1			1.000011
79000.0	30.6	-50.4			47.9	581.4			1.000011

STATION ALTITUDE 4010.40 FEET MSL
 14 JUNE 62
 ASCENSION NO. 10 0600 MDT

MANDATORY LEVELS
 1650200JUL
 11W 30

GEODETTIC COORDINATES
 32.88497 LAT DEG
 100.49714 LON DEG

TABLE-11

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRAD	GE. POINT		DIRECTION DEGREES(TYP)	SPEED KNOTS
850.0	4792.	19.1	13.1	60.	210.3	7.8
800.0	6513.	20.2	1.4	29.	219.0	15.6
750.0	8324.	15.7	-3.2	27.	249.0	17.2
700.0	10227.	10.5	-5.5	32.	247.2	10.0
650.0	12233.	5.6	-11.0	29.	215.0	20.0
600.0	14366.	2.9	-18.1	20.	221.5	33.2
550.0	16656.	-2.5	-22.9	19.	223.1	30.0
500.0	19107.	-8.9	-28.2	19.	224.1	42.7
450.0	21750.	-14.5	-30.9	23.	234.9	42.0
400.0	24646.	-20.9	-34.9	27.	249.7	45.5
350.0	27835.	-28.3	-41.2	28.	253.4	40.8
300.0	31400.	-37.1	-48.0	29.	261.3	42.5
250.0	35451.	-46.8			200.0	54.9
200.0	40190.	-56.0			270.0	71.3
175.0	42971.	-57.2			287.2	63.8
150.0	46129.	-63.0			277.5	49.7
125.0	49791.	-64.3			270.4	37.3
100.0	54232.	-66.8			263.4	31.3
80.0	58696.	-64.6			303.4	0.5
70.0	61384.	-62.1			330.4	3.1
60.0	64526.	-59.1			77.3	0.6
50.0	68325.	-55.3			112.5	0.4
40.0	73014.	-53.7			73.0	9.1
30.0	79116.	-49.5				

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

STATION ALTITUDE 3912.75 FEET MSL
 14 JUNE 62
 ASCENSION NO. 67

SIGNIFICANT LEVEL DATA
 1050290007
 1-28

CLOUDY COORDINATES
 32.8927 LAT DEG
 106.40591 LON DEG

TABLE-12

PRESSURE GEOMETRIC		TEMPERATURE		REL. HUM.
ALTITUDE	ALTITUDE	AIR	DEWPOINT	PERCENT
MILLIBARS	MSL FEET	DEGREES	CENTIGRADE	
678.1	3912.7	19.1	14.0	76.0
675.2	4006.4	19.3	13.7	70.0
650.0	4835.8	20.8	12.5	59.0
630.1	5511.2	22.5	5.4	33.0
610.5	6192.4	21.6	5.6	31.0
700.0	10281.1	10.1	-5.2	39.0
670.3	11460.9	7.9	-9.5	28.0
652.1	12206.2	7.5	-12.0	22.0
582.1	15244.8	1.5	-19.0	20.0
547.1	16673.8	-2.6	-21.9	21.0
500.0	19202.3	-6.7	-25.0	20.0
435.0	22715.0	-16.0	-29.2	30.0
400.0	24780.6	-19.4	-34.0	26.0
355.2	27648.7	-26.0	-38.7	29.0
300.0	31595.1	-35.7	-47.0	30.0
284.0	32842.2	-38.8	-49.7	
250.0	35605.6	-45.0		
210.4	39423.9	-52.1		
200.0	40501.4	-53.7		
167.5	44228.2	-57.2		
150.0	46504.2	-61.9		
141.9	47630.3	-64.3		
129.5	49467.9	-65.9		
125.7	50064.8	-65.5		
124.2	50306.6	-63.8		
120.4	50934.5	-64.2		
114.7	51910.1	-65.7		
111.1	52550.5	-64.9		
110.1	52732.8	-64.1		
107.9	53140.2	-64.5		
106.4	53424.2	-61.9		
104.3	53832.8	-60.2		
100.0	54699.0	-60.3		
88.3	57233.8	-64.5		
85.3	57920.2	-65.0		
81.5	58855.3	-61.4		
70.0	61964.7	-62.1		
63.3	64039.0	-57.9		
56.4	66445.3	-57.4		
50.0	68981.5	-53.7		

STATION ALTITUDE 3912.75 FEET MSL
 14 JUNE 62 0745 MDT
 ASCENSION 140. 67

SIGHT FLIGHT LEVEL DATA
 1050290007
 1-28

GEODETIC COORDINATES
 32.89927 LAT DEG
 106.40591 LON DEG

TABLE-12 cont'd

PRESSURE	GEOMETRIC ALTITUDE	TEMPERATURE	REL. HUM.
MILLIBARS	MSL FEET	AIR DEPTH	PERCENT
		DEGREES	
		CENTIGRADE	
41.5	72968.5	-50.5	
34.5	76947.9	-50.9	
30.0	79971.7	-48.7	
25.1	83864.0	-47.1	
20.0	88898.6	-41.9	

STATION ALTITUDE 3412.75 FEET MSL
 14 JUNE 82 0745 MDT
 ASCENSION NO. 07

UPPER AIR DATA
 16502900C7
 L-28

TABLE-13

GEODETTIC COORDINATES
 32.89927 LAT DEG
 106.40591 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY UM/CURIC MLTER	SPEED OF SOUND M/SEC	WIND VELOCITY (KNOTS)	WIND DIRECTION (DEGREES (TN))	INDEX OF REFRACTION
3512.7	878.1	19.1	14.8	76.0	1039.4	660.4	<20.0	<20.0	1.000300
4000.0	875.4	19.3	13.6	70.4	1035.7	668.5	219.3	219.3	1.000301
4500.0	860.1	20.2	13.0	63.5	1014.7	669.5	216.0	216.0	1.000292
5000.0	845.1	21.2	11.2	52.7	994.2	670.4	213.7	213.7	1.000280
5500.0	830.4	22.5	5.6	33.4	974.5	671.2	211.5	211.5	1.000257
6000.0	816.0	21.9	4.2	31.6	959.9	670.4	222.2	222.2	1.000250
6500.0	801.6	20.7	3.3	31.6	946.7	669.1	231.5	231.5	1.000245
7000.0	787.4	19.3	2.5	32.6	934.5	667.4	232.9	232.9	1.000241
7500.0	773.4	17.9	1.7	33.6	922.5	665.8	231.8	231.8	1.000236
8000.0	759.6	16.5	.8	34.5	910.0	664.1	229.2	229.2	1.000232
8500.0	746.2	15.1	-.0	35.5	898.9	662.5	227.0	227.0	1.000228
9000.0	732.9	13.7	-.9	36.5	887.4	660.8	225.2	225.2	1.000224
9500.0	719.9	12.3	-1.6	37.5	875.1	659.1	225.2	225.2	1.000220
10000.0	707.1	10.9	-2.7	38.5	864.9	657.5	225.7	225.7	1.000216
10500.0	694.4	9.7	-4.3	37.0	853.2	656.0	227.0	227.0	1.000211
11000.0	681.7	8.8	-6.9	32.3	840.0	654.4	229.1	229.1	1.000205
11500.0	669.3	7.9	-9.0	27.7	828.3	653.0	231.0	231.0	1.000199
12000.0	657.1	7.6	-11.8	23.7	814.1	653.2	231.5	231.5	1.000193
12500.0	645.0	6.9	-13.4	21.8	801.2	652.4	231.1	231.1	1.000189
13000.0	633.0	5.9	-14.4	21.5	789.3	651.2	229.0	229.0	1.000186
13500.0	621.3	4.9	-15.4	21.1	777.4	650.0	229.0	229.0	1.000182
14000.0	609.8	4.0	-16.4	20.8	765.0	648.4	231.5	231.5	1.000179
14500.0	598.5	3.0	-17.5	20.5	754.4	647.7	233.0	233.0	1.000176
15000.0	587.4	2.0	-18.5	20.2	743.1	646.5	234.1	234.1	1.000173
15500.0	576.5	.9	-19.4	20.2	732.3	645.2	234.0	234.0	1.000170
16000.0	565.6	-.4	-20.3	20.5	721.0	643.7	233.5	233.5	1.000167
16500.0	554.9	-1.7	-21.2	20.8	711.5	642.2	232.0	232.0	1.000164
17000.0	544.4	-2.8	-22.1	20.9	701.1	640.7	231.5	231.5	1.000162
17500.0	534.0	-3.8	-23.0	20.7	690.1	639.0	229.5	229.5	1.000159
18000.0	523.8	-4.7	-23.9	20.5	679.2	638.5	228.5	228.5	1.000156
18500.0	513.8	-5.6	-24.8	20.3	668.0	637.4	228.0	228.0	1.000153
19000.0	503.9	-6.5	-25.7	20.1	656.1	636.3	226.0	226.0	1.000151
19500.0	494.1	-7.7	-26.2	20.8	645.1	634.9	230.1	230.1	1.000148
20000.0	484.4	-9.0	-26.6	22.5	636.5	633.4	232.5	232.5	1.000146
20500.0	474.9	-10.3	-27.0	23.7	629.0	631.8	234.0	234.0	1.000144
21000.0	465.6	-11.6	-27.5	25.1	619.7	630.3	237.1	237.1	1.000142
21500.0	456.5	-12.9	-28.1	26.5	610.0	628.7	239.1	239.1	1.000139
22000.0	447.5	-14.1	-28.6	28.0	601.0	627.1	240.5	240.5	1.000137
22500.0	438.7	-15.4	-29.2	29.4	592.0	625.5	241.4	241.4	1.000135
23000.0	430.0	-16.5	-30.1	29.4	583.5	624.5	242.1	242.1	1.000133

STATION ALTITUDE 3912.75 FL71 MSL
 14 JUNE 62 0745 MDT
 ASCENSION IS. 07

UPPER AIR DATA
 1050290067
 1-7,8

GEOMETRIC ALTITUDE MSL FEET

PRESSURE MILLIBARS

TEMPERATURE AIR DEWPOINT IN DEGREES CENTIGRADE

REL. HUM. PERCENT

WIND DIRECTION (MH) KNOTS

INDEX OF REFRACTION

GEODETIC COORDINATES
 32.03927 LAT DEG
 100.40591 LONG DEG

TABLE-13 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT IN DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED KNOTS	DIRECTION (MH)	INDEX OF REFRACTION
23500.0	421.4	-17.3	28.5	570.0	023.0	242.0	1.000130
24000.0	412.9	-18.1	27.5	563.0	022.0	244.7	1.000129
24500.0	404.6	-18.9	26.5	554.2	021.2	247.2	1.000126
25000.0	396.4	-19.9	26.2	545.1	020.1	250.4	1.000123
25500.0	388.3	-21.1	26.8	536.4	018.0	251.6	1.000121
26000.0	380.3	-22.2	27.3	527.0	017.2	252.0	1.000119
26500.0	372.5	-23.4	27.8	519.4	015.8	253.0	1.000117
27000.0	364.9	-24.5	28.3	511.1	014.4	253.5	1.000115
27500.0	357.4	-25.7	28.8	502.9	013.0	254.0	1.000113
28000.0	349.9	-26.9	29.1	494.8	011.4	255.7	1.000111
28500.0	342.5	-28.1	29.2	486.8	010.4	256.0	1.000110
29000.0	335.2	-29.3	29.3	478.9	010.0	257.2	1.000108
29500.0	328.1	-30.6	29.5	471.1	010.0	257.7	1.000106
30000.0	321.2	-31.8	29.6	463.5	010.3	257.9	1.000104
30500.0	314.4	-33.0	29.7	456.0	010.8	257.8	1.000102
31000.0	307.7	-34.2	29.8	448.7	012.2	257.6	1.000101
31500.0	301.2	-35.5	30.0	441.4	010.0	257.3	1.000099
32000.0	294.7	-36.7	30.0	434.2	010.1	257.0	1.000097
32500.0	288.3	-37.9	30.0	427.0	010.5	256.7	1.000096
33000.0	282.0	-39.1	28.3**	419.8	010.0	257.1	1.000094
33500.0	275.7	-40.2	23.1**	412.4	010.0	257.6	1.000092
34000.0	269.6	-41.3	17.8**	405.2	010.2	259.6	1.000090
34500.0	263.7	-42.4	12.5**	398.1	010.0	261.7	1.000089
35000.0	257.8	-43.5	7.2**	391.1	010.0	263.7	1.000087
35500.0	252.1	-44.6	2.0**	384.2	010.0	265.3	1.000086
36000.0	246.4	-45.6		377.2	010.7	266.6	1.000084
36500.0	240.8	-46.5		370.2	010.4	268.1	1.000082
37000.0	235.3	-47.5		363.5	010.2	269.4	1.000081
37500.0	229.9	-48.4		356.5	010.0	270.8	1.000079
38000.0	224.7	-49.4		349.0	010.7	272.3	1.000078
38500.0	219.6	-50.3		343.0	010.5	273.6	1.000076
39000.0	214.6	-51.3		336.9	010.3	275.4	1.000075
39500.0	209.6	-52.2		330.8	010.1	276.9	1.000074
40000.0	204.8	-53.0		324.8	010.1	278.9	1.000072
40500.0	200.0	-53.7		317.5	010.1	280.6	1.000071
41000.0	195.3	-54.2		310.7	010.5	282.1	1.000069
41500.0	190.7	-54.6		304.1	010.9	283.5	1.000068
42000.0	186.2	-55.1		297.5	010.3	284.4	1.000066
42500.0	181.9	-55.6		291.2	010.2	285.2	1.000065
43000.0	177.6	-56.0		284.9	010.0	286.3	1.000063

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

STATION ALTITUDE 3912.75 FEET MSL
 14 JUNE 62 0745 MDT
 ASCENSION NO. 07

UPPER AIR DATA
 105029007
 E-28

GEODETTIC COORDINATES
 32.89927 LAT DEG
 105.40591 LON ULG

TABLE-13 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION	
							GEOMETRIC ALTITUDE METER
43500.0	175.4	-56.5		278.0	575.4	281.0	1.000062
44000.0	169.3	-57.0		272.9	572.0	283.4	1.000061
44500.0	165.3	-57.8		267.4	571.0	285.0	1.000060
45000.0	161.3	-58.8		262.2	570.4	286.5	1.000058
45500.0	157.5	-59.8		257.2	569.0	288.0	1.000057
46000.0	153.7	-60.9		252.2	567.6	279.0	1.000056
46500.0	150.0	-61.9		247.4	566.2	275.9	1.000055
47000.0	146.4	-63.0		242.6	564.8	267.9	1.000054
47500.0	142.8	-64.0		237.9	563.4	266.1	1.000053
48000.0	139.3	-64.6		232.7	562.0	268.4	1.000052
48500.0	135.9	-65.1		227.5	562.0	269.0	1.000051
49000.0	132.6	-65.5		222.4	561.4	271.0	1.000050
49500.0	129.3	-65.9		217.3	560.9	271.0	1.000048
50000.0	126.1	-65.5		211.0	561.5	271.7	1.000047
50500.0	123.0	-63.9		204.0	563.5	271.0	1.000046
51000.0	120.0	-64.3		200.2	563.0	271.2	1.000045
51500.0	117.1	-65.1		196.0	562.0	270.9	1.000044
52000.0	114.2	-65.6		191.0	561.5	272.2	1.000043
52500.0	111.4	-65.0		186.4	562.1	274.0	1.000041
53000.0	108.7	-64.4		181.3	562.9	278.5	1.000040
53500.0	106.0	-61.6		174.0	565.7	287.0	1.000039
54000.0	103.5	-60.2		169.3	566.5	284.5	1.000038
54500.0	101.0	-60.3		165.2	568.4	280.5	1.000037
55000.0	98.5	-60.8		161.0	567.7	274.2	1.000036
55500.0	96.1	-61.6		156.5	566.0	268.0	1.000035
56000.0	93.8	-62.5		155.1	565.5	265.6	1.000035
56500.0	91.5	-63.3		151.9	564.4	265.5	1.000034
57000.0	89.3	-64.1		146.9	563.5	264.0	1.000033
57500.0	87.1	-64.7		145.0	562.5	266.0	1.000032
58000.0	85.0	-64.7		142.1	562.4	268.0	1.000032
58500.0	82.9	-62.8		137.3	563.0	273.5	1.000031
59000.0	80.9	-61.4		135.2	566.9	269.0	1.000030
59500.0	79.0	-61.5		130.0	569.7	312.0	1.000029
60000.0	77.1	-61.7		126.9	566.0	355.1	1.000028
60500.0	75.2	-61.8		123.9	566.4	28.4	1.000028
61000.0	73.4	-61.9		121.0	566.5	33.5	1.000027
61500.0	71.6	-62.0		116.1	566.1	37.0	1.000026
62000.0	69.9	-62.0		113.5	566.1	15.9	1.000026
62500.0	68.2	-61.0		112.0	567.4	13.5	1.000025
63000.0	66.5	-60.5		106.0	566.8	11.1	1.000024

STATION ALTITUDE 3412.75 FEET MSL
 18 JUNE 62 0745 MDT
 ASCENSION NO. 07

UPPER AIR DATA
 105029000/
 1-28

GEODETIC COORDINATES
 32.89927 LAT DEG
 106.40591 LON DEG

TABLE-13 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION (HH)	WIND SPEED KNOTS	INDEX OF REFRACTION
03500.0	65.0	-59.0		105.7	570.1	359.0	1.8	1.000024
04000.0	63.4	-58.0		102.7	571.5	64.0	1.8	1.000023
04500.0	61.9	-57.8		100.2	571.7	60.0	6.2	1.000022
05000.0	60.4	-57.7		97.7	571.6	60.0	10.6	1.000022
05500.0	59.0	-57.6		95.4	572.0	71.2	12.3	1.000021
06000.0	57.6	-57.5		93.1	572.1	75.2	13.8	1.000021
06500.0	56.3	-57.3		90.8	572.3	81.0	12.9	1.000020
07000.0	54.9	-56.6		88.4	573.3	85.0	9.9	1.000020
07500.0	53.6	-55.9		86.0	574.3	110.0	7.8	1.000019
08000.0	52.4	-55.1		83.7	575.2	113.0	6.8	1.000019
08500.0	51.2	-54.4		81.5	576.2	117.7	5.9	1.000018
09000.0	50.0	-53.7		79.3	577.1	114.0	5.8	1.000018
09500.0	48.8	-53.3		77.3	577.7	110.4	5.8	1.000017
70000.0	47.7	-52.9		75.4	578.2	106.0	6.4	1.000017
70500.0	46.6	-52.5		73.5	578.7	103.7	7.4	1.000016
71000.0	45.5	-52.1		71.7	579.2	101.0	8.4	1.000016
71500.0	44.4	-51.7		69.9	579.6	100.0	9.0	1.000016
72000.0	43.4	-51.3		68.2	580.3	99.1	9.6	1.000015
72500.0	42.4	-50.9		66.5	580.8	97.0	10.2	1.000015
73000.0	41.4	-50.5		64.8	581.3	96.0	11.0	1.000014
73500.0	40.5	-50.6		63.4	581.2	94.0	11.7	1.000014
74000.0	39.6	-50.6		61.9	581.2	93.0	12.1	1.000014
74500.0	38.7	-50.7		60.5	581.1	93.0	12.6	1.000013
75000.0	37.8	-50.7		59.1	581.0	92.0	12.8	1.000013
75500.0	36.9	-50.8		57.8	581.0	92.7	12.8	1.000013
76000.0	36.1	-50.8		56.5	580.9	92.7	12.7	1.000013
76500.0	35.2	-50.9		55.2	580.6	94.7	13.0	1.000012
77000.0	34.4	-50.9		53.9	580.6	97.2	13.4	1.000012
77500.0	33.6	-50.5		52.8	581.3	100.0	13.8	1.000012
78000.0	32.9	-50.1		51.3	581.6	104.0	14.6	1.000011
78500.0	32.1	-49.8		50.1	582.3	108.2	15.4	1.000011
79000.0	31.4	-49.4		48.9	582.7	110.1	15.0	1.000011
79500.0	30.7	-49.0		47.7	583.2	110.2	15.7	1.000011
80000.0	30.0	-48.7		46.5	583.7	110.4	15.6	1.000010
80500.0	29.3	-48.5		45.4	583.9	109.4	14.3	1.000010
81000.0	28.6	-48.3		44.3	584.2	100.0	12.7	1.000010
81500.0	28.0	-48.1		43.3	584.5	93.1	11.4	1.000010
82000.0	27.3	-47.9		42.3	584.7	89.0	11.3	1.000009
82500.0	26.7	-47.7		41.3	585.0	88.4	11.2	1.000009
83000.0	26.1	-47.5		40.3	585.3	85.0	11.2	1.000009

STATION ALTITUDE 3,12.75 FEET MSL
 14 JUNE 62 0745 MDT
 ASCENSION NO. 67

U.P.R. AIR DATA
 1650250007
 L-28

GEODETIC COORDINATES
 32.89927 LAT DEG
 106.40591 LON DEG

TABLE-13 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION SPEED (KNOTS)	INDEX OF REFRACTION
63500.0	25.5	-47.2		39.4	563.5	88.0	1.000009
64000.0	24.9	-47.0		38.4	563.9	91.4	1.000009
64500.0	24.4	-46.4		37.5	565.0	90.1	1.000008
65000.0	23.8	-45.9		36.6	567.2	88.9	1.000008
65500.0	23.3	-45.4		35.7	567.9	83.0	1.000008
66000.0	22.8	-44.9		34.8	568.0	87.9	1.000008
66500.0	22.3	-44.4		33.9	569.2	93.9	1.000008
67000.0	21.8	-43.9		33.1	569.9		1.000007
67500.0	21.3	-43.3		32.3	590.0		1.000007
68000.0	20.8	-42.8		31.5	591.7		1.000007
68500.0	20.4	-42.3		30.7	591.9		1.000007

STATION ALTITUDE 3912.75 FEET MSL
 14 JUNE 62 0745 MDT
 ASCENSION NO. 67

MANDATORY LEVELS
 1.50290007
 1-28

GEOCLIMATIC COORDINATES
 32.89927 LAT DEG
 106.40591 LONG DEG

TABLE-14

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUMID. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE		DIRECTION DEGREES(THR)	SPEED KNOTS
750.0	4833.	20.8	12.5	59.	214.4	15.5
800.0	6558.	20.6	3.2	52.	231.7	19.3
750.0	8370.	15.5	.2	53.	227.5	22.3
700.0	10271.	10.1	-3.2	59.	220.4	24.4
650.0	12281.	7.3	-13.0	22.	231.4	25.5
600.0	14424.	3.1	-17.5	21.	232.0	29.5
550.0	16715.	-0.5	-21.0	21.	232.1	35.4
500.0	19176.	-3.9	-26.0	20.	220.0	43.0
450.0	21838.	-13.0	-28.5	20.	240.2	43.3
400.0	24740.	-19.4	-34.0	20.	240.9	40.0
350.0	27949.	-20.8	-39.4	39.	255.7	47.7
300.0	31533.	-35.7	-47.0	50.	257.2	50.2
250.0	35009.	-45.0			265.8	62.6
200.0	40405.	-53.7			270.8	71.2
175.0	43204.	-50.3			261.1	64.7
150.0	46380.	-61.9			274.1	58.4
125.0	50034.	-64.7			271.7	40.0
100.0	54531.	-60.3			270.5	15.3
80.0	59041.	-61.5			295.8	2.7
70.0	61753.	-62.1			20.3	.7
60.0	64922.	-57.7			67.0	11.2
50.0	68723.	-53.7			115.0	5.8
40.0	73468.	-50.6			94.2	11.9
30.0	79630.	-48.7			110.3	15.6
25.0	83577.	-47.0			91.0	11.8
20.0	88981.	-41.0				

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

GEODETIC COORDINATES
 32.08597 LAT DEG
 106.49714 LONG DEG

SIGNIFICANT LEVEL DATA
 1050220011
 10 JUN 50

STATION ALTITUDE 4010.40 FEET MSL
 14 JUN 52 0845 MDT
 ASCENSION NO. 11

TABLE-15

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
674.0	4010.4	22.9	54.0
666.1	4291.0	25.0	52.0
650.0	4630.1	23.6	51.0
727.0	9194.6	11.6	41.0
700.0	10255.2	9.8	23.0
646.9	12303.5	5.3	17.0
621.6	13454.3	4.2	15.0
589.8	14854.7	3.1	15.0
549.0	16750.0	-6	10.0
500.0	19175.7	-7.2	18.0
433.5	22766.9	-16.9	20.0
400.0	24759.8	-20.4	24.0
349.9	27949.6	-28.3	35.0
323.9	29759.2	-31.9	30.0
300.0	31524.5	-36.8	31.0
286.6	32561.0	-39.1	32.0
274.7	33513.1	-41.7	
250.0	35598.9	-45.6	
228.8	37528.9	-49.2	
203.0	40092.0	-53.1	
200.0	40408.2	-53.1	
188.4	41671.5	-55.1	
183.6	42213.4	-56.2	
178.8	42769.0	-55.6	
150.0	46401.4	-62.3	
131.7	49026.5	-66.2	
120.3	50841.0	-65.2	
113.0	52093.9	-66.8	
108.0	53000.2	-65.0	
103.6	53036.5	-65.2	
100.0	54555.3	-60.5	
96.8	55224.0	-60.3	
88.2	57112.6	-66.0	
77.4	59750.2	-62.6	
70.0	61802.1	-61.4	
65.9	63040.9	-60.5	
62.3	64206.2	-56.9	
58.2	65629.7	-57.1	
50.0	68932.5	-53.3	
35.8	75968.9	-41.7	

GEODLTIC COORDINATES
32.08497 LAT DEG
106.49714 LONG DEG

SIGNAL MOUNT LEVEL DATA
1.550220011
1.1W 30

TABLE-15 cont'd

STATION ALTITUDE 4010.40 FEET MSL
14 JUNE 62
ASCENSION NO. 11 0845 MDT

PRESSURE	GEOMETRIC	TEMPERATURE	REL. HUM.
MILLIBARS	ALTITUDE	AIR	PERCENT
MSL	FEET	DEGREES	CENTIGRADE
32.2	78257.4	-48.7	
30.0	79793.8	-49.4	
28.6	80830.7	-49.0	

STATION ALTITUDE 4010.40 FEET MSL
 14 JUNE 62 0845 MUT
 ASCENSION NO. 11

UPPER AIR DATA
 JCS0220011
 LW 30

GEODETIC COORDINATES
 2.00497 LAT UG
 100.49714 LON DEG

TABLE-16

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	TEMPERATURE DEWPOINT	REL. HUM. PERCENT	DENSITY GM/CUBIC MLTER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (T)	WIND SPEED KNOTS	INDEX OF REFRACTION
4010.4	874.6	22.9	13.1	54.0	1022.4	672.5	240.0	5.1	1.000293
4500.0	859.8	24.5	6.5	51.0	1002.2	673.5	230.9	7.0	1.000205
5000.0	844.9	25.1	5.3	51.4	989.4	671.9	230.0	9.0	1.000259
5500.0	830.0	21.8	4.6	52.5	970.0	670.5	222.5	11.1	1.000255
6000.0	815.3	20.4	3.9	53.7	964.0	669.7	220.0	12.8	1.000250
6500.0	800.9	19.0	3.1	54.8	951.5	667.1	235.1	14.7	1.000246
7000.0	785.8	17.6	2.4	56.0	939.3	665.5	232.2	16.8	1.000242
7500.0	772.9	16.3	1.6	57.1	927.2	663.9	228.6	19.1	1.000238
8000.0	759.2	14.9	.8	58.3	915.3	662.2	226.3	21.5	1.000234
8500.0	745.8	13.5	-.0	59.4	903.0	660.6	224.9	23.7	1.000229
9000.0	732.7	12.1	-.9	40.6	892.0	659.0	223.3	24.8	1.000225
9500.0	719.5	11.1	-3.5	35.8	879.7	657.6	227.4	25.9	1.000218
10000.0	705.5	10.2	-7.8	27.3	866.9	656.4	220.1	26.8	1.000209
10500.0	693.6	9.3	-11.2	22.3	854.4	655.2	220.3	27.5	1.000203
11000.0	680.9	8.2	-12.9	20.6	842.2	653.6	223.0	28.2	1.000198
11500.0	668.5	7.1	-14.7	19.4	830.1	652.5	224.6	28.7	1.000194
12000.0	656.2	6.0	-16.6	17.9	818.2	651.2	226.0	29.2	1.000190
12500.0	644.2	5.1	-18.1	16.7	805.7	650.1	230.3	29.7	1.000187
13000.0	632.2	4.6	-19.1	15.6	792.2	649.0	233.3	30.5	1.000183
13500.0	620.5	4.2	-20.1	15.0	778.9	647.6	235.2	31.5	1.000180
14000.0	609.0	3.8	-20.4	15.0	765.0	646.5	230.0	32.8	1.000176
14500.0	597.7	3.4	-20.7	15.0	752.4	645.1	230.4	33.7	1.000173
15000.0	586.6	2.8	-21.1	15.1	739.9	647.4	230.5	34.5	1.000170
15500.0	575.6	1.8	-21.7	15.3	726.7	646.3	235.3	34.2	1.000168
16000.0	564.8	.9	-22.3	15.6	717.0	645.1	233.0	33.6	1.000165
16500.0	554.2	-.1	-23.0	15.9	706.7	643.9	235.0	33.4	1.000162
17000.0	543.7	-1.3	-23.7	16.2	696.3	642.6	235.9	33.3	1.000160
17500.0	533.4	-2.6	-24.5	16.0	686.3	640.9	234.5	33.4	1.000157
18000.0	523.2	-4.0	-25.4	17.0	676.0	639.3	235.2	33.6	1.000155
18500.0	513.2	-5.4	-26.2	17.4	667.3	637.7	235.7	33.9	1.000152
19000.0	503.4	-6.7	-27.1	17.9	657.9	636.1	230.0	34.4	1.000150
19500.0	493.6	-8.1	-28.0	18.2	648.4	634.4	230.1	34.5	1.000148
20000.0	483.9	-9.4	-29.0	18.5	638.9	632.8	230.2	34.3	1.000145
20500.0	474.4	-10.8	-30.0	18.7	629.0	631.2	230.0	34.5	1.000143
21000.0	465.0	-12.1	-30.9	19.0	620.4	629.5	237.2	34.8	1.000141
21500.0	455.9	-13.5	-31.9	19.3	611.4	627.9	230.7	36.6	1.000139
22000.0	446.9	-14.8	-32.9	19.6	602.5	626.2	240.3	38.8	1.000136
22500.0	438.1	-16.2	-33.9	19.9	593.8	624.6	241.9	40.4	1.000134
23000.0	429.4	-17.3	-34.6	20.5	584.5	623.2	243.5	41.9	1.000132
23500.0	420.7	-18.2	-34.8	21.5	574.7	622.1	243.1	42.2	1.000130

STATION ALTITUDE 4310.40 FLT SL
 14 JUNE 62 0845 MDT
 ASCENSION NO. 11

UPPER AIR DATA
 1650220011
 LW 30

TABLE-16 cont'd

GEOMETRIC ALTITUDE
 MSL FEET

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	TEMPERATURE DELMPOITIN CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND METERS PER SECOND	WIND DATA DIRECTION KNOTS	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
24000.0	412.2	-19.1	-35.1	22.5	565.1	621.0	240.7	42.2	1.000128
24500.0	403.9	-20.0	-35.5	23.5	559.0	620.0	251.2	42.4	1.000129
25000.0	395.7	-21.0	-35.8	24.9	543.0	619.7	250.5	43.0	1.000125
25500.0	387.5	-22.3	-36.2	26.6	538.0	617.1	250.5	43.7	1.000121
26000.0	379.5	-23.5	-36.7	28.3	529.5	615.0	259.0	44.4	1.000120
26500.0	371.7	-24.7	-37.2	30.0	521.1	614.1	257.7	45.4	1.000118
27000.0	364.0	-26.0	-37.8	31.7	512.9	612.0	250.5	46.4	1.000116
27500.0	356.5	-27.2	-38.4	33.5	504.0	611.0	250.9	47.5	1.000114
28000.0	349.1	-28.4	-39.1	34.9	496.9	609.5	257.0	48.1	1.000112
28500.0	341.8	-29.4	-40.3	33.5	488.4	606.3	259.0	47.7	1.000110
29000.0	334.6	-30.4	-41.6	32.1	480.0	607.0	260.1	47.4	1.000108
29500.0	327.5	-31.4	-42.9	30.7	471.0	605.0	260.7	47.6	1.000106
30000.0	320.5	-32.6	-44.1	30.1	464.1	604.5	261.0	47.7	1.000104
30500.0	313.6	-34.0	-45.3	30.4	456.7	602.0	261.1	47.8	1.000102
31000.0	306.9	-35.3	-46.5	30.7	449.5	600.0	261.5	47.6	1.000101
31500.0	300.3	-36.7	-47.6	31.0	442.5	599.0	262.0	47.1	1.000099
32000.0	293.8	-37.9	-48.5	31.5	434.9	597.0	262.5	48.1	1.000097
32500.0	287.4	-39.0	-49.3	31.9	427.4	595.2	262.2	51.0	1.000096
33000.0	281.1	-40.3	-50.6	17.2**	420.5	594.5	262.5	54.0	1.000094
33500.0	274.9	-41.7	-51.9	16.6**	413.0	592.7	262.5	57.0	1.000092
34000.0	268.7	-42.6			405.1	591.5	263.4	59.5	1.000090
34500.0	262.7	-43.5			398.0	590.3	263.5	61.0	1.000089
35000.0	256.9	-44.5			391.2	589.1	267.4	62.4	1.000087
35500.0	251.1	-45.4			384.1	587.9	270.2	64.1	1.000086
36000.0	245.4	-46.3			377.0	586.7	272.0	65.9	1.000084
36500.0	239.9	-47.3			370.0	585.5	274.0	66.5	1.000082
37000.0	234.4	-48.2			363.1	584.3	276.0	66.8	1.000081
37500.0	229.1	-49.1			356.3	583.1	277.7	66.8	1.000079
38000.0	223.8	-49.9			349.5	582.1	278.5	66.8	1.000078
38500.0	218.7	-50.7			342.4	581.1	278.7	66.5	1.000076
39000.0	213.6	-51.4			335.0	580.1	279.0	66.1	1.000075
39500.0	208.7	-52.2			329.0	579.1	279.1	65.2	1.000073
40000.0	203.9	-53.0			322.0	578.1	279.1	64.1	1.000072
40500.0	199.1	-53.2			315.5	577.7	279.4	62.7	1.000070
41000.0	194.5	-54.0			309.2	576.7	280.0	60.9	1.000069
41500.0	189.9	-54.8			303.1	575.0	280.7	58.7	1.000068
42000.0	185.5	-55.8			297.2	574.0	282.7	54.8	1.000066
42500.0	181.1	-55.9			290.4	574.2	283.0	51.1	1.000065
43000.0	176.8	-56.0			283.7	574.0	283.0	46.5	1.000063
43500.0	172.6	-56.9			276.1	572.8	287.1	41.9	1.000061

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE HAS BEEN USED FOR INTERPOLATION.

STATION ALTITUDE 4010.40 FEET MSL
 14 JUNE 62 0845 MDT
 ASCENSION NO. 11

UPLR AIR DATA
 105022011
 1W 30

GEOMETRIC COORDINATES
 32.00497 LAT DEG
 106.49714 LONG DEG

TABLE-16 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KIPTS	WIND DIRECTION (REFLECTION)	WIND SPEED KIPTS	INDEX OF REFRACTION
44000.0	100.5	-57.9		272.0	571.0	299.1	38.6	1.0000061
44500.0	104.4	-58.8		267.2	570.4	291.0	38.2	1.0000060
45000.0	108.5	-59.7		262.0	569.2	278.0	38.9	1.0000058
45500.0	100.7	-60.6		250.8	567.9	272.2	35.2	1.0000057
46000.0	102.9	-61.6		251.8	566.7	268.5	35.5	1.0000050
46500.0	149.3	-62.4		240.8	565.5	260.2	36.3	1.0000055
47000.0	145.6	-63.2		241.0	564.5	267.9	36.9	1.0000054
47500.0	142.1	-63.9		230.5	563.5	260.8	36.9	1.0000053
48000.0	138.6	-64.7		231.0	562.5	269.7	36.8	1.0000052
48500.0	135.2	-65.4		220.9	561.5	270.5	36.7	1.0000050
49000.0	131.9	-66.2		221.9	560.5	270.7	36.5	1.0000049
49500.0	128.6	-65.9		210.2	560.0	271.1	36.8	1.0000048
50000.0	125.5	-65.7		210.0	561.2	271.0	37.3	1.0000047
50500.0	122.4	-65.4		205.2	561.5	272.0	37.7	1.0000046
51000.0	119.3	-65.4		200.1	561.5	272.0	38.1	1.0000045
51500.0	116.4	-66.0		195.8	560.7	273.1	38.4	1.0000044
52000.0	113.5	-66.7		191.0	559.8	274.5	37.0	1.0000043
52500.0	110.7	-66.0		186.2	560.7	275.0	35.5	1.0000041
53000.0	108.0	-65.0		180.8	562.1	277.5	32.6	1.0000040
53500.0	105.3	-65.1		176.4	561.9	280.1	29.0	1.0000039
54000.0	102.8	-64.1		171.5	563.2	282.1	25.6	1.0000038
54500.0	100.3	-60.9		164.5	567.0	282.5	22.4	1.0000037
55000.0	97.9	-60.4		160.2	560.3	282.7	19.3	1.0000036
55500.0	95.5	-61.1		150.9	567.3	279.9	17.7	1.0000035
56000.0	93.2	-62.6		154.2	565.2	270.4	16.1	1.0000034
56500.0	90.9	-64.2		151.5	563.2	274.4	14.9	1.0000034
57000.0	88.7	-65.7		148.9	561.2	273.7	13.9	1.0000033
57500.0	86.5	-65.5		145.2	561.4	272.0	12.9	1.0000032
58000.0	84.4	-64.9		141.2	562.3	271.0	11.5	1.0000031
58500.0	82.3	-64.2		137.5	565.1	270.2	10.1	1.0000031
59000.0	80.3	-63.6		133.5	564.0	268.1	8.4	1.0000030
59500.0	78.4	-62.9		129.9	564.9	264.5	6.4	1.0000029
60000.0	76.5	-62.5		126.4	565.5	257.7	4.2	1.0000028
60500.0	74.6	-62.2		123.2	565.9	193.4	.8	1.0000027
61000.0	72.8	-61.9		120.0	565.5	93.4	4.6	1.0000027
61500.0	71.0	-61.6		117.0	565.7	105.2	6.3	1.0000026
62000.0	69.3	-61.3		114.0	567.1	113.2	7.5	1.0000025
62500.0	67.7	-60.9		111.0	567.6	116.7	7.7	1.0000025
63000.0	66.0	-60.5		108.2	568.1	124.2	6.4	1.0000024
63500.0	64.5	-59.1		104.9	570.0	128.4	5.4	1.0000023

STATION ALTITUDE 4010.00 FEET MSL
 14 JUNE 62 0845 MDT
 ASCENSION NO. 11

UPLER AIR DATA
 1650220011
 14 JUN 62
 TABLE-16 cont'd

CLOUDS COORDINATES
 52.00497 LAT DEG
 106.49714 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	WIND DIRECTION DEGREES (T)	WIND SPEED KNOTS	INDEX OF REFRACTION
04000.0	04.9	-57.5	101.7	572.0	109.9	6.0	1.000023
04500.0	04.4	-56.9	99.0	572.6	95.6	7.0	1.000022
05000.0	04.0	-57.0	96.7	572.7	94.4	7.2	1.000022
05500.0	03.6	-57.1	94.4	572.7	93.9	7.3	1.000021
06000.0	03.2	-56.7	92.0	573.2	92.0	7.5	1.000020
06500.0	02.8	-56.1	89.6	574.0	89.0	7.7	1.000020
07000.0	02.5	-55.5	87.3	574.8	87.2	7.8	1.000019
07500.0	02.3	-54.9	85.0	575.6	84.0	7.6	1.000019
08000.0	02.0	-54.3	82.6	576.3	82.1	7.3	1.000018
08500.0	01.8	-53.7	80.6	577.1	80.0	6.8	1.000018
09000.0	01.6	-53.3	78.0	577.7	78.0	6.3	1.000017
09500.0	01.5	-53.2	76.7	577.6	72.0	6.0	1.000017
70000.0	01.3	-53.0	74.9	578.0	69.7	5.8	1.000017
70500.0	01.2	-52.9	73.2	578.1	62.7	6.0	1.000016
71000.0	01.2	-52.8	71.4	578.3	63.9	6.5	1.000016
71500.0	01.1	-52.7	69.7	578.4	67.4	6.9	1.000016
72000.0	01.1	-52.6	68.1	578.6	64.6	7.2	1.000015
72500.0	01.1	-52.5	66.3	578.7	93.0	6.1	1.000015
73000.0	01.1	-52.4	64.9	578.9	109.0	6.3	1.000014
73500.0	01.0	-52.3	63.4	579.0	119.0	6.5	1.000014
74000.0	01.0	-52.1	61.9	579.2	127.0	6.8	1.000014
74500.0	01.0	-52.0	60.4	579.3	131.0	7.1	1.000013
75000.0	01.0	-51.9	59.0	579.5	135.0	7.4	1.000013
75500.0	01.0	-51.8	57.6	579.6	138.2	7.7	1.000013
76000.0	01.0	-51.7	56.2	579.8	132.7	8.0	1.000013
76500.0	01.0	-51.0	54.6	580.7	130.4	9.9	1.000012
77000.0	01.0	-50.3	53.4	581.0	128.0	10.2	1.000012
77500.0	01.0	-49.7	52.0	582.4	126.0	7.9	1.000012
78000.0	01.0	-49.0	50.7	583.2	124.7	6.7	1.000011
78500.0	01.0	-48.8	49.4	583.5	122.0	6.7	1.000011
79000.0	01.0	-49.0	48.4	583.2	122.0	6.9	1.000011
79500.0	01.0	-49.3	47.3	582.9	122.0	6.9	1.000011
80000.0	01.0	-49.3	46.2	582.8	122.0	6.9	1.000010
80500.0	01.0	-49.1	45.2	583.1	122.0	6.9	1.000010

STATION ALTITUDE 4010.40 FLEET MSL
 14 JUNE 82 0845 MDT
 ASCENSION NO. 11

MANDATORY LEVELS
 1350220014
 1, W 30
 TABLE-17

GEODETTIC COORDINATES
 32.68497 LAT DEG
 106.49714 LONG DEG

PRESSURE GEOPOTENTIAL MILLIBARS	FELT	AIR TEMPERATURE DEGREES CENTIGRADE	TEMPERATURE DEAPPOINT CENTIGRADE	REL. HUMID. PERCENT	WIND DATA		
					DIRECTION DEGREES (TN)	SPEED KNOTS	
850.0	4827.	23.6	5.5	31.	227.3	0.3	
800.0	6549.	18.9	3.1	35.	235.6	14.8	
750.0	6351.	13.9	.2	39.	224.9	23.2	
700.0	10244.	9.8	-10.3	23.	227.5	27.2	
650.0	12245.	5.4	-17.6	17.	228.9	29.4	
600.0	14382.	3.5	-20.7	15.	236.3	33.5	
550.0	16681.	-0.5	-23.2	10.	233.8	33.4	
500.0	19149.	-7.2	-27.4	18.	236.1	34.5	
450.0	21807.	-14.4	-32.6	19.	239.7	33.0	
400.0	24699.	-20.4	-35.6	24.	253.6	42.6	
350.0	27893.	-28.3	-38.9	24.	257.4	40.2	
300.0	31463.	-36.8	-47.7	31.	262.0	47.1	
250.0	35522.	-45.6			270.6	64.4	
200.0	40312.	-53.1			279.3	63.1	
175.0	43110.	-56.4			286.4	44.7	
150.0	46277.	-62.3			288.3	30.1	
125.0	49929.	-65.6			271.6	37.3	
100.0	54388.	-68.5			282.5	22.2	
80.0	58485.	-63.5			267.8	8.2	
70.0	61571.	-61.4			109.9	6.9	
60.0	64761.	-57.0			94.4	7.2	
50.0	68575.	-53.3			79.5	6.5	
40.0	73301.	-52.2			120.4	6.5	
30.0	79453.	-49.4					