

AD A092779

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR-1157	2. GOVT ACCESSION NO. AD-A092779	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 12830C LANCE. Missile Number 2227- Round Number 356-DST,		5. TYPE OF REPORT & PERIOD COVERED
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) White Sands Meteorological Team		8. CONTRACT OR GRANT NUMBER(s) DA Task 1F665702D127-02
9. PERFORMING ORGANIZATION NAME AND ADDRESS 12830C LANCE / 1157 DR-1157		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 12830C
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Command Atmospheric Sciences Laboratory White Sands Missile Range, NM 88002		12. REPORT DATE September 1980
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research & Development Command Adelphi, MD 20783		13. NUMBER OF PAGES 35
		15. SECURITY CLASS. (of this report) UNCLASSIFIED
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 12830C LANCE, Missile Number 2227, Round Number 356-DST, ^{was} presented in tabular form.		

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INTRODUCTION

12830C LANCE, Missile Number 2227, Round Number 356-DST, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 0917 MDT on 30 September 1980. The scheduled launch time was 0845 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 (°C), relative humidity, dew point (°C), density (gm/cm³), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.

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

b. Upper Air

(1) Low level wind data were obtained from RAPT, T-9 pilot observation at:

SITE AND ALTITUDE

LC-33 3000 METERS

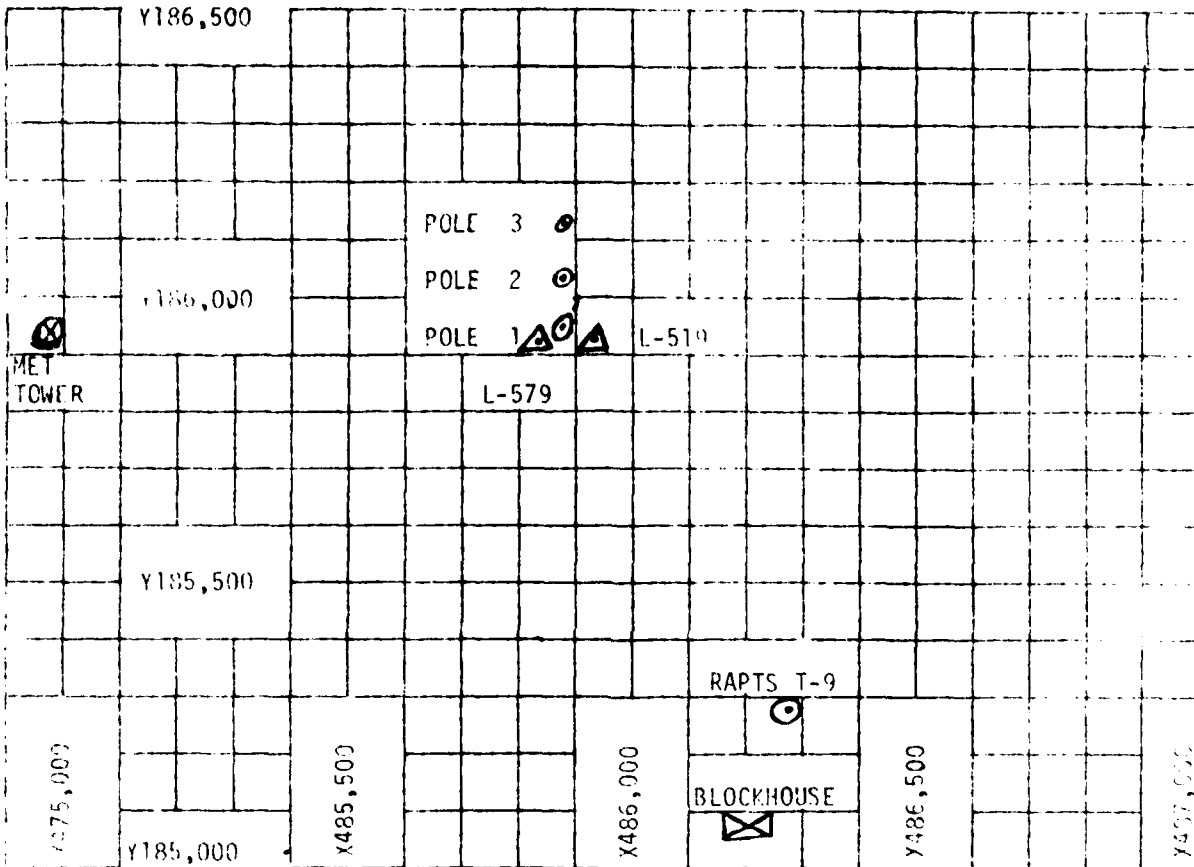
(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to as high as possible (up to 500-foot increments).

SITE AND TIME

HMN 0745 MDT
WSD 0815 MDT
JAL 0850 MDT

Accession For: [] [] []
Distribution/Availability Codes:
Spec: A

NORTH



1. MET TOWER - 4 Bendix Model T-20 Anemometers at 12 ft, 62 ft, 102 ft, and 202 ft with E/A recorders.
2. POLE ANEMOMETER - Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 - 38.7 ft.
 - (b) Pole #2 - 53.0 ft.
 - (c) Pole #3 - 83.6 ft.
3. RAPT5 T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.

TABLE 1. Surface Observations taken at 0915 MDT,
 30 September 1980, at WSD, 12830C LANCE,
 Missile Number 2227, Round Number 356-DST.

ELEVATION	3990	FT/MSL
PRESSURE	844.9	MBS
TEMPERATURE	19.8	°C
RELATIVE HUMIDITY	65	%
DEW POINT	13.0	°C
DENSITY	1043	GM/M ³
WIND SPEED	05	KTS
WIND DIRECTION	020	DEGREES
CLOUD COVER	CLEAR	

FILE 2.

LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

POLE #1 X485,374.29 Y185,958.90 H4018.74 83.7 ft. AGL			POLE #2 X485,374.93 Y186,012.00 H4033.57 53.0 ft. AGL			POLE #3 X485,877.29 Y186,116.06 H4063.92 83.6 ft. AGL		
TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	009	03	-30	015	06	-30	MISSING	
-20	009	03	-20	018	05	-20	MISSING	
-10	009	03	-10	015	04	-10	MISSING	
0.0	009	03	0.0	013	03	0.0	MISSING	
+10	006	04	+10	015	06	+10	MISSING	

FILE 3.

LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 12 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #2, 62 FEET X484,982.64, Y185,057.73, H3983.00 (base)		
TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	015	06	-30	MISSING	
-20	012	06	-20	MISSING	
-10	015	06	-10	MISSING	
0.0	022	07	0.0	MISSING	
+10	015	06	+10	MISSING	

LEVEL #3, 102 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #4, 202 FEET X484,982.64, Y185,057.73, H3983.00 (base)		
TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	360	05	-30	360	04
-20	360	04	-20	360	06
-10	360	04	-10	354	05
0.0	360	05	0.0	352	04
+10	360	05	+10	348	04

GEOMETRIC COORDINATES
 32.40043 LAT DEG
 106.57933 LONG DEG

SIGHT LOGIC LEVEL DATA
 270000Z
 WHITE SANDS

TABLE 5

PRECIPITATION MILLIBARS	GEOMETRIC ALTITUDE USL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
386.6	3089.0	12.9	12.0
378.8	4154.7	11.3	15.0
373.0	4341.8	11.7	39.0
259.4	4787.7	9.7	49.0
250.0	5099.9	8.0	48.0
321.8	6002.6	7.4	45.0
794.0	7627.0	-2.3	24.0
766.2	8002.9	-9.1	20.0
700.0	10528.0	-11.7	19.0
660.4	12111.4	-8.7	32.0
643.0	12830.7	-12.3	26.0
605.0	14053.4	-14.7	26.0
577.4	15704.3	-19.2	16.0
561.4	16449.5	-21.0	15.0
537.0	17591.6	-22.7	15.0
500.0	19402.0	-24.3	14.0
446.8	22683.4	-28.4	14.0
426.4	23513.5	-35.2	14.0
400.0	25101.4	-35.8	14.0
358.6	27763.0	-38.5	14.0
339.6	29331.5	-42.3	14.0
390.0	32211.7	-43.2	15.0
285.2	33193.5	-43.0	16.0
250.0	36193.9	-50.0	17.0
200.0	41071.0	-53.2	
195.2	41536.4	-53.5	
162.4	45805.1	-62.8	
150.0	47303.3	-66.0	
119.4	51033.9	-76.0	
111.6	52730.5	-73.5	
100.0	54005.9	-72.5	

GEODETIC COORDINATES
 32.40003 LAT (EG)
 106.37033 LONG (EG)

SIGHT LEAST LEVEL DATA
 374002-0521
 0815 HRS MDT

0815 HRS MDT
 374002-0521

TABLE 5 (continued)

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE METERS	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES CENTIGRADE	WET BULB DEGREES CENTIGRADE	
74.7	6070.1	-71.5		
70.1	6195.4	-69.4		
60.8	6492.2	-64.1		
50.6	6855.3	-62.0		
33.4	7702.8	-54.9		
30.0	7929.5	-55.3		
24.0	8336.7	-43.8		
20.0	8550.1	-48.5		
14.5	9512.4	-40.2		

GEODETIC COORDINATES
 12.40043 LAT DEG
 106.37075 LONG DEG

UNOBSERVED DATA
 294300 Z
 WHITE SANDS

TABLE 6

HEIGHT FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUMIDITY PERCENT	WIND DIRECTION DEGREES (TYP)	WIND SPEED KNOTS	INDEX OF REFRACTION
379.0	834.3	16.9	82.0	20.0	2.9	1.000304
400.0	835.7	16.1	80.9	20.0	2.9	1.000303
500.0	800.2	20.3	55.5	50.0	4.4	1.000287
500.0	853.6	20.3	49.3	47.2	6.0	1.000275
500.0	853.1	19.9	46.8	52.1	7.8	1.000269
600.0	823.4	19.7	45.2	50.8	9.3	1.000263
650.0	803.0	19.2	35.5	72.7	9.4	1.000249
700.0	794.4	18.6	29.6	80.7	10.2	1.000234
700.0	780.7	17.8	22.1	91.9	12.0	1.000228
800.0	760.9	17.0	20.1	95.4	13.5	1.000222
850.0	735.2	15.9	19.8	97.7	13.7	1.000218
900.0	739.7	14.7	19.0	99.4	14.0	1.000214
950.0	720.5	13.5	19.4	100.5	14.6	1.000210
1000.0	713.7	12.3	19.2	99.1	14.7	1.000206
1050.0	700.7	11.1	19.0	95.3	14.5	1.000202
1100.0	686.3	9.7	22.9	83.3	14.8	1.000200
1150.0	673.4	8.4	27.0	81.5	15.6	1.000198
1200.0	663.1	7.1	31.1	73.2	18.7	1.000194
1250.0	650.9	0.2	29.8	73.4	22.2	1.000189
1300.0	630.9	5.3	26.0	81.1	24.6	1.000186
1350.0	627.1	3.9	25.0	85.0	26.9	1.000182
1400.0	613.5	3.2	24.1	85.0	21.5	1.000175
1450.0	600.1	4.4	16.3	83.3	16.2	1.000172
1500.0	592.3	3.8	15.0	95.0	11.9	1.000169
1550.0	581.3	3.3	15.2	107.7	8.3	1.000166
1600.0	571.0	2.3	15.0	107.2	11.7	1.000163
1650.0	560.3	1.0	14.5	100.7	15.3	1.000160
1700.0	549.3	.5	14.1	102.4	20.2	1.000158
1750.0	539.3	-0	14.1	93.9	24.8	1.000155
1800.0	529.2	-1.2	14.0	90.7	28.0	1.000152
1850.0	519.2	-2.5	14.0	97.6	30.5	1.000150
1900.0	509.3	-3.3	14.0	90.7	31.0	1.000150

STATION ALBUQU. 5999.00 FEET ASL
 56.91 P. 03
 0815 HRS MDT
 WIND DIRECTION 300.0
 WIND SPEED 10.0

UPPER AIR DATA
 27400200Z1
 WHITE SANDS

GEOPHYSIC COORDINATES
 32.40043 LAT N
 106.57033 LONG W

TABLE 6 (continued)

GEOMETRIC ALTITUDE (500 FT)	PRESSURE (MILLIBARS)	TEMPERATURE (DEGREES CENTIGRADE)	AIR DEWPOINT (DEGREES CENTIGRADE)	CLOUDS (%)	DENSITY (GM/CM ³)	SPEED (KNOTS)	WIND DIR (DEGREES TRUE)	WIND SPEED (KNOTS)	INDEX OF REFRACTION
17300.0	499.6	-7.1	-2.4	14.0	649.2	637.9	95.0	31.5	1.000148
20000.0	439.9	-9.5	-2.0	19.0	639.7	630.3	93.7	32.0	1.000145
23000.0	430.4	-7.3	-3.0	14.0	630.4	634.8	92.1	32.4	1.000143
24000.0	471.0	-9.1	-3.1	14.0	621.2	633.2	91.1	32.0	1.000141
24000.0	461.9	-10.4	-3.7	14.0	612.1	631.6	89.9	31.4	1.000138
27000.0	452.9	-11.7	-3.7	14.0	603.2	630.0	87.9	29.9	1.000136
27300.0	444.0	-13.0	-3.0	14.0	594.5	628.4	86.0	28.4	1.000134
29000.0	435.5	-13.3	-3.4	14.0	584.5	627.5	85.2	26.3	1.000132
29300.0	426.7	-14.2	-3.8	14.0	573.8	627.0	84.4	24.0	1.000129
29600.0	418.2	-15.2	-3.6	14.0	564.7	625.7	83.2	20.6	1.000127
29500.0	409.8	-16.5	-3.7	14.0	555.7	624.4	85.1	17.2	1.000125
29000.0	401.0	-17.4	-3.4	14.0	546.9	623.1	79.2	14.2	1.000123
29500.0	393.5	-18.5	-3.1	14.0	537.8	622.0	60.4	11.6	1.000121
29000.0	385.5	-19.1	-3.8	14.0	529.7	620.9	44.2	10.7	1.000119
29500.0	377.7	-20.0	-4.0	14.0	519.7	619.9	41.6	11.3	1.000117
27000.0	370.1	-20.9	-4.2	14.0	510.4	618.8	8	12.1	1.000115
27000.0	362.0	-21.7	-4.1	14.0	502.3	617.8	343.7	14.3	1.000113
29000.0	355.2	-22.5	-4.5	14.2	493.0	616.8	320.5	17.6	1.000111
29500.0	347.9	-23.2	-4.3	14.0	484.8	616.0	306.3	22.7	1.000109
29000.0	340.7	-23.1	-4.3	14.9	476.2	615.1	301.0	24.3	1.000107
29000.0	333.7	-24.3	-4.4	15.1	463.2	613.8	293.1	25.7	1.000105
30000.0	325.7	-25.0	-4.7	15.3	460.5	612.5	301.3	24.4	1.000103
30000.0	319.4	-27.1	-4.5	15.3	452.9	611.1	302.6	23.6	1.000102
31000.0	313.7	-26.2	-4.6	15.7	445.5	609.7	304.4	25.5	1.000100
31000.0	307.7	-27.5	-4.7	15.8	436.2	608.3	303.8	27.2	1.000098
32000.0	300.5	-30.5	-4.9	16.0	431.0	606.9	306.5	27.5	1.000096
32000.0	293.7	-31.7	-4.3	16.4	424.0	605.4	307.0	27.7	1.000095
32000.0	287.6	-33.0	-4.7	16.4	417.7	603.8	303.9	28.0	1.000093
32000.0	281.0	-34.2	-4.5	16.3	410.5	602.2	303.0	28.5	1.000092
33000.0	275.5	-35.4	-4.8	16.5	403.4	600.7	304.9	29.7	1.000090
33000.0	269.1	-36.0	-4.7	16.4	396.0	599.2	304.7	30.7	1.000089
33000.0	262.0	-37.3	-4.6	16.4	388.0	597.7	304.4	30.7	1.000087

** SEE FOOTNOTES TO TABLE 6 FOR DENSITY VALUE AND WIND DIRECTION INTERPOLATION.

UPPER AIR DATA
 774000551
 WHITE SANDS
 TABLE 6 (continued)

GEODETIC COORDINATES
 32.00003 LAT DEG
 106.57003 LONG DEG

UPPER AIR DATA
 774000551
 WHITE SANDS
 TABLE 6 (continued)

GEOMETRIC ALTITUDE KFC FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GRAMS PER CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
35500.0	257.8	-58.9	4.0**	553.4	590.2	304.0	31.0	1.000005
36000.0	252.2	-40.1	1.1**	377.0	594.7	304.0	32.9	1.000014
36500.0	246.6	-41.4		370.6	593.1	303.5	34.2	1.000063
37000.0	241.0	-42.7		364.3	591.4	301.6	34.2	1.000081
37500.0	235.5	-44.0		358.0	589.6	299.0	33.6	1.000080
38000.0	230.2	-45.3		351.9	588.1	297.0	31.9	1.000078
38500.0	225.0	-46.6		345.9	586.4	295.0	31.1	1.000077
39000.0	219.9	-47.9		340.0	584.8	294.0	31.1	1.000076
39500.0	214.9	-49.1		334.2	583.1	294.0	30.8	1.000074
40000.0	210.1	-50.4		328.6	581.4	293.1	30.2	1.000073
40500.0	205.3	-51.7		323.0	579.7	295.8	29.6	1.000072
41000.0	200.7	-53.0		317.5	578.0	296.2	29.2	1.000071
41500.0	196.0	-53.4		310.8	577.4	295.8	28.8	1.000069
42000.0	191.3	-54.5		304.9	576.1	294.9	28.5	1.000068
42500.0	186.4	-55.7		299.3	574.4	295.9	28.3	1.000067
43000.0	182.3	-56.9		293.8	572.0	297.9	28.3	1.000065
43500.0	178.0	-58.2		288.4	571.2	293.4	29.2	1.000064
44000.0	173.8	-59.4		283.2	569.6	293.3	30.5	1.000063
44500.0	169.6	-60.6		278.0	568.0	293.4	30.7	1.000062
45000.0	165.5	-61.8		273.0	566.5	301.6	29.8	1.000061
45500.0	161.6	-63.0		267.9	564.8	303.9	28.9	1.000060
46000.0	157.7	-64.3		262.6	563.4	300.4	27.8	1.000058
46500.0	153.8	-65.6		257.4	562.1	307.3	27.5	1.000057
47000.0	150.0	-66.9		252.3	560.7	304.1	28.7	1.000056
47500.0	146.3	-68.3		247.0	559.3	301.9	29.9	1.000055
48000.0	142.6	-67.8		241.9	558.3	302.4	30.5	1.000054
48500.0	139.0	-63.7		236.8	557.1	302.9	31.0	1.000053
49000.0	135.5	-69.0		231.9	555.9	304.0	30.7	1.000052
49500.0	132.1	-70.3		227.0	554.8	305.2	30.3	1.000051
50000.0	128.8	-71.5		222.3	553.4	307.9	28.4	1.000050
50500.0	125.5	-72.2		217.7	552.2	311.1	26.6	1.000048
51000.0	122.3	-73.1		213.1	551.0	315.5	24.0	1.000047

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

GEOPHYSICAL CORRELATIONS
 32.40045 LAT DEG
 106.37033 Lon DEG

DEPTH ALG DATA
 2740020024
 01111 54000

0815 HRS MDT
 0815 HRS MDT

TABLE 6 (continued)

DEPTH METER	PERCENT MILLIGRAMS MILLIGRAMS	TEMPERATURE DEGREES CENTIGRADE	DENSITY GM/CM ³	SPEED OF SOUND METERS PER SECOND	DIRECTION, DEGREES (TH)	"THU DATA SPEED KNOTS	INDEX OF REFRACTION
21000.0	119.5	-74.0	203.7	549.3	323.2	21.7	1.000046
21100.0	119.2	-73.9	203.3	549.9	329.8	19.7	1.000045
21200.0	119.5	-73.3	193.0	550.0	337.5	18.0	1.000044
21300.0	110.0	-73.7	192.7	550.2	341.0	16.3	1.000045
21400.0	107.5	-73.4	197.5	550.7	342.9	14.6	1.000042
21500.0	104.3	-73.1	192.5	551.1	345.4	13.2	1.000041
21600.0	102.1	-72.7	177.5	551.5	349.5	12.0	1.000040
21700.0	99.5	-72.5	172.3	551.9	353.3	11.3	1.000038
21800.0	97.1	-72.4	168.3	552.1	353	11.1	1.000037
21900.0	94.5	-72.3	164.0	552.1	354	10.6	1.000037
22000.0	92.1	-72.2	159.7	552.2	260.0	9.0	1.000036
22100.0	89.8	-72.1	155.6	552.3	43.6	8.1	1.000035
22200.0	87.5	-72.1	151.0	552.5	43.0	8.9	1.000034
22300.0	85.3	-72.1	147.7	552.6	32.0	9.8	1.000033
22400.0	83.1	-71.9	143.9	552.7	33.0	10.5	1.000032
22500.0	81.0	-71.8	140.2	552.8	32.0	11.1	1.000031
22600.0	79.0	-71.7	136.5	552.9	33.0	11.4	1.000030
22700.0	77.1	-71.6	133.0	553.0	33.0	11.5	1.000030
22800.0	75.1	-71.5	129.0	553.2	33.0	11.8	1.000029
22900.0	73.1	-71.5	125.0	553.9	39.0	12.5	1.000028
23000.0	71.5	-70.8	122.2	555.2	38.0	13.1	1.000027
23100.0	69.5	-70.4	118.5	556.4	38.9	13.3	1.000026
23200.0	67.1	-68.3	115.2	557.0	35.0	13.4	1.000026
23300.0	65.1	-67.4	111.0	558.0	33.5	13.1	1.000025
23400.0	63.5	-65.0	108.7	559.0	33.4	12.7	1.000024
23500.0	62.0	-63.7	105.6	561.1	70.7	12.1	1.000023
23600.0	60.5	-61.1	102.5	562.3	71.0	11.9	1.000023
23700.0	59.3	-61.1	93.6	563.3	73.0	9.9	1.000022
23800.0	58.3	-61.0	97.1	563.7	73.0	9.6	1.000022
23900.0	56.9	-61.0	94.0	564.1	73.9	9.4	1.000021
24000.0	55.5	-61.0	92.2	564.2	71.9	9.4	1.000021
24100.0	54.3	-61.0	89.0	564.9	70.4	9.8	1.000020

STATION ALTITUDE 30000.0 FT
 30000.0 FT
 0816 FPS MET
 ASSUMPTIONS: 0.01

UPPER ATMOSPHERE DATA
 2740000521
 0816 FPS MET

HEMISPHERIC COORDINATES
 122.470943 LAT DEG
 106.570333 LONG DEG

TABLE 6 (continued)

SEMI-LOG ALTITUDE KLS FEET	PRESSURE BILLIONS	TEMPERATURE ALTITUDE DEGREES CENTIGRADE	RELATIVE HUMIDITY PERCENT	DENSITY GM/CM ³ METER	SOUND SPEED KNOTS	WIND DATA DIR. (TRUE) SPEED KNOTS	INDEX OF REFRACTION
67500.0	52.9	-62.6		37.5	565.2	60.7	10.1
68000.0	51.6	-62.4		35.3	565.0	99.5	10.1
68500.0	50.3	-62.1		33.1	565.0	94.4	10.1
69000.0	49.1	-61.7		30.9	565.5	93.2	10.1
69500.0	48.0	-61.3		28.9	567.1	100.4	10.2
70000.0	46.8	-60.8		26.8	567.6	102.7	10.3
70500.0	45.7	-60.4		24.9	568.2	100.6	10.2
71000.0	44.6	-60.0		22.9	568.8	96.2	9.9
71500.0	43.5	-59.6		21.1	569.3	91.4	9.7
72000.0	42.5	-59.2		19.2	569.9	86.6	9.6
72500.0	41.5	-58.7		17.5	570.5	83.2	9.6
73000.0	40.5	-58.3		15.7	571.0	83.6	9.6
73500.0	39.6	-57.9		14.0	571.6	83.9	9.6
74000.0	38.6	-57.5		12.4	572.2	84.1	9.6
74500.0	37.7	-57.0		10.8	572.7	84.4	9.6
75000.0	36.8	-56.6		9.2	573.3	85.5	9.6
75500.0	35.9	-56.2		7.7	573.8	86.6	9.6
76000.0	34.5	-55.8		6.2	574.4	87.6	8.9
76500.0	33.4	-55.4		5.4	575.0	74.0	7.7
77000.0	32.7	-55.0		5.2	575.5	61.5	6.8
77500.0	31.9	-54.9		5.1	575.4	51.6	7.3
78000.0	31.1	-54.2		5.0	575.3	45.6	8.4
78500.0	30.4	-53.2		4.9	575.2	41.3	9.6
79000.0	29.7	-53.0		4.7	575.1	44.5	10.7
80000.0	29.0	-52.2		4.5	575.4	47.9	11.7
80500.0	28.4	-51.4		4.3	576.5	50.9	12.8
81000.0	27.7	-52.5		4.2	577.5	52.1	13.3
81500.0	27.1	-51.3		4.1	576.0	52.9	13.7
82000.0	26.4	-51.0		4.0	579.0	53.6	14.0
82500.0	25.8	-50.2		4.1	560.7	54.5	14.1
83000.0	25.2	-49.4		4.0	561.7	55.6	13.9
83500.0	24.6	-48.4		3.9	562.8	56.7	13.8

GEONETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

0815 HRS MDT
 2700020001
 0111150005

TABLE 6 (continued)

SOUNDING ALTIMETER FEET	PRESSURE	TEMPERATURE DEGREES CELSIUS	REL. HUMIDITY PERCENT	DENSITY GRAMS PER CUBIC CENTIMETER	SPEED OF SOUND METERS PER SECOND	DIR DEGREES (TN)	WIND DATA		INDEX OF REFRACTION
							SPEED KNOTS	SPEED KNOTS	
3300.0	29.7	-43.3		33.3	563.5		57.6	13.3	1.000009
3400.0	29.1	-43.1		37.4	563.0		58.2	12.4	1.000008
3500.0	28.5	-43.7		35.5	563.6		53.9	11.5	1.000008
3600.0	28.0	-43.7		35.7	563.7		60.0	10.5	1.000008
3700.0	27.5	-43.7		34.9	563.7		63.4	9.8	1.000008
3800.0	27.0	-43.5		34.1	563.7		67.5	9.1	1.000008
3900.0	26.5	-43.5		33.3	563.8		71.8	8.4	1.000007
4000.0	26.0	-43.5		32.6	563.8		79.7	8.0	1.000007
4100.0	25.5	-43.5		31.8	563.9		83.6	7.9	1.000007
4200.0	25.0	-43.5		31.1	563.9		97.6	7.9	1.000007
4300.0	24.5	-43.2		30.3	564.3		104.3	7.2	1.000007
4400.0	24.0	-47.3		29.6	564.7		111.2	6.0	1.000007
4500.0	23.7	-47.0		28.9	565.1		121.0	4.8	1.000006
4600.0	23.5	-47.3		28.2	565.5		127.3	4.4	1.000006
4700.0	23.0	-47.7		27.6	565.8		114.1	5.2	1.000006
4800.0	22.5	-48.7		26.9	566.2		103.0	6.3	1.000006
4900.0	22.0	-48.3		26.3	566.6		93.7	7.5	1.000006
5000.0	21.7	-48.1		25.6	567.0		93.0	8.2	1.000006
5100.0	21.5	-48.3		25.0	567.4		33.3	9.0	1.000006
5200.0	21.0	-48.5		24.4	567.8		34.3	9.9	1.000005
5300.0	20.5	-48.2		23.9	568.2				1.000005
5400.0	20.0	-48.0		23.3	568.6				1.000005
5500.0	19.5	-48.0		22.7	569.0				1.000005
5600.0	19.0	-48.5		22.2	569.4				1.000005

STATION ALTITUDE 3000.0 METERS
 9815 HRS MST
 0815 HRS MST

CAUDATORY LEVELS
 2700.0 METERS
 3000.0 METERS

ASTRONOMIC COORDINATES
 32.90043 LAT DEG
 106.37033 LONG DEG

TABLE 7

PRESSURE (GEOMETRICAL)		TEMPERATURE		REL. HUM.		WIND DIR. & SPEED	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEW POINT DEGREES CENTIGRADE	PERCENT	DEGREES (TR)	DEGREES (TR)	KNOTS
855.0	5930.	20.1	8.8	40.	43.4	6.4	
800.0	6309.	18.8	.3	29.	82.1	9.7	
750.0	6615.	15.6	-7.4	20.	98.2	13.7	
700.0	6917.	11.0	-11.7	19.	90.2	14.5	
650.0	7226.	6.1	-10.0	20.	70.4	22.4	
600.0	7463.	4.2	-19.5	16.	91.1	14.7	
550.0	7669.	.5	-23.5	15.	102.9	20.0	
500.0	7945.	-5.1	-23.4	14.	95.7	31.5	
450.0	8213.	-12.1	-34.1	14.	87.2	29.5	
400.0	8509.	-17.6	-33.5	14.	76.6	13.7	
350.0	8803.	-23.0	-42.7	14.	510.0	21.0	
300.0	9197.	-30.5	-49.0	10.	300.5	27.5	
250.0	9610.	-40.6			304.0	33.5	
200.0	10070.	-53.2			290.2	29.1	
175.0	10370.	-59.0			298.4	30.1	
150.0	10677.	-60.0			304.2	28.7	
125.0	11051.	-72.4			311.7	20.3	
100.0	11473.	-72.5			352.9	11.4	
75.0	11905.	-71.8			53.0	11.4	
50.0	12338.	-69.4			60.1	13.2	
25.0	12695.	-64.1			72.7	10.1	
0.0	12877.	-62.0			95.3	10.1	
43.0	12947.	-58.1			83.9	9.6	
30.0	13051.	-55.3			40.2	11.2	
25.0	13122.	-49.1			57.0	13.7	
23.0	13136.	-44.5			97.7	7.9	
15.0	13300.	-44.7					

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

GEODETIC COORDINATES
 52.88865 LAT 166
 106.09965 LON 166

SPECIFIC LEVEL DAT
 270010000
 HOLLOWAY

TABLE 8.1
 0745 HRS MDT

TABLE 8.

REF SMOKE MILLIARS MILLIARS	GEOMETRIC ALTITUDE FOOT FEET	TEMPERATURE AIR DEVIATION FROM 50 CENTIGRADE	REL. HUMID. PERCENT
59.1	4120.6	12.5	30.0
270.0	4499.7	19.5	73.0
350.0	5111.8	21.9	63.0
526.2	5922.0	21.5	55.0
605.0	6639.9	21.3	23.0
700.0	7561.3	11.0	54.0
651.2	8225.6	6.4	33.0
623.6	8360.3	4.5	19.0
600.2	8469.5	4.9	14.0
562.0	8536.1	2.1	13.0
544.2	8635.3	2.4	13.0
500.0	8930.8	-5.1	13.0
484.2	9153.9	-7.0	13.0
441.2	9269.9	-12.3	13.0
412.2	9404.8	-16.3	13.0
400.5	9519.0	-18.1	14.0
342.6	9807.0	-24.5	14.0
300.0	9253.3	-31.6	14.0
299.2	9563.6	-38.6	14.0
256.6	9694.5	-39.2	14.0
209.0	9113.0	-52.5	14.0
133.9	8539.9	-62.4	14.0
150.2	8767.6	-65.3	14.0
117.0	9109.3	-73.1	14.0
113.0	9315.9	-70.1	14.0
100.0	9399.3	-72.6	14.0
88.2	9300.5	-71.1	14.0
75.0	9053.0	-72.4	14.0
70.0	9103.7	-70.1	14.0
50.0	8663.2	-61.7	14.0
30.0	7903.7	-52.5	14.0
20.0	7372.2	-54.2	14.0

GEODETIC COORDINATES
 32.0965 LAT (EG)
 106.0936 LON (EG)

SIGNIFICANT LEVEL DATA
 270010500
 000000000

STATION ALTITUDE 0420.00 FEET SL
 50 50.00 FT
 ASCESSION 100. 300
 0745 HRS MDT

TABLE 8 (continued)

GEODETIC ALTITUDE	TEMPERATURE	REL. HUM.
METERS	AIR DEWPOINT	PERCENT
METERS	DEGREES CENTIGRADE	
20.0	-49.5	
10.0	-42.2	

GEODETIC COORDINATES
 32.88865 LAT 116G
 106.09965 LON 116G

UPPER AIR DATA
 2740010300
 HOLLOWAY

13,100 FEET PRESSURE 0745 HRS MDT

TABLE 9.

GEODETIC ALTITUDE FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TR)	WIND SPEED KNOTS	INDEX OF REFRACTION
41200.0	880.1	12.5	10.0	1067.3	660.5		0	1.000299
4500.0	866.5	19.7	14.5	1075.7	669.1		119.5	1.000302
5000.0	853.3	21.5	14.6	1001.5	671.2		2.3	1.000296
5500.0	838.5	21.7	10.7	984.9	670.9		119.5	1.000276
6000.0	823.9	21.5	9.8	970.4	670.0		4.8	1.000294
6500.0	809.6	21.3	7	954.8	669.5		5.7	1.000241
7000.0	795.3	20.4	-9	941.3	668.3		105.6	1.000235
7500.0	781.2	19.0	-1.2	926.6	666.8		95.7	1.000232
8000.0	767.3	17.7	-1.6	916.5	665.3		87.1	1.000229
8500.0	753.7	16.4	-2.0	904.3	663.8		61.7	1.000225
9000.0	740.3	15.1	-2.5	892.3	662.3		78.5	1.000222
9500.0	727.1	13.8	-3.0	880.9	660.8		75.8	1.000219
10000.0	714.2	12.5	-3.6	869.9	659.2		67.8	1.000215
10500.0	701.5	11.2	-4.2	857.5	657.7		59.8	1.000212
11000.0	688.8	10.0	-5.2	845.6	656.3		50.2	1.000208
11500.0	676.2	8.8	-6.4	833.8	654.9		43.7	1.000204
12000.0	663.9	7.6	-7.5	822.1	653.4		57.8	1.000200
12500.0	651.8	6.5	-8.6	810.6	652.0		66.0	1.000196
13000.0	639.8	5.6	-11.8	798.4	650.9		73.2	1.000190
13500.0	628.0	4.8	-15.5	786.2	649.8		19.0	1.000184
14000.0	616.4	4.7	-18.3	772.2	649.0		77.2	1.000179
14500.0	605.0	4.8	-20.4	757.6	649.8		84.2	1.000175
15000.0	593.7	4.1	-21.2	745.5	648.9		69.1	1.000172
15500.0	582.7	3.4	-21.9	733.5	648.1		95.2	1.000169
16000.0	571.9	2.7	-22.7	721.7	647.3		101.6	1.000166
16500.0	561.2	2.1	-23.4	709.8	646.6		105.6	1.000163
17000.0	550.7	1.9	-23.5	697.0	646.4		100.9	1.000160
17500.0	540.3	.6	-20.6	687.3	644.7		107.5	1.000157
18000.0	530.1	-.3	-25.7	677.8	643.0		105.3	1.000155
18500.0	520.1	-2.2	-26.9	668.4	641.4		102.4	1.000152
19000.0	510.2	-3.6	-25.0	659.2	639.7		97.4	1.000150
19500.0	500.6	-5.0	-20.1	650.1	638.1		91.5	1.000148

STATION ALTITUDE 4126.59 FEET MSL
 30 SEP 67
 ASCENSION NO. 308
 0745 HRS MDT

UPPER AIR DATA
 270010300
 HOLLOWAY

ALLOTIC COORDINATES
 32.88865 LAT LEG
 106.09965 LON LEG

TABLE 9 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DEW POINT TEMPERATURE DEGREES CENTIGRADE	WIND DIRECTION (DEGREES TRUE)	WIND SPEED KNOTS	WIND SPEED KNOTS	INDEX OF REFRACTION
20000.0	491.7	-7.2	13.0	-30.0	049.9	30.9	1.000145	
20500.0	491.5	-7.3	13.0	-30.9	000.0	32.3	1.000143	
21000.0	472.1	-9.4	13.0	-31.9	77.4	33.3	1.000141	
21500.0	462.9	-9.5	13.0	-32.3	77.0	31.3	1.000138	
22000.0	453.9	-10.7	13.0	-33.7	73.5	29.1	1.000136	
22500.0	445.0	-11.9	13.0	-34.6	73.5	28.0	1.000134	
23000.0	436.5	-13.0	13.0	-35.4	000.7	27.1	1.000132	
23500.0	427.0	-14.2	13.5	-36.1	010.2	27.0	1.000130	
24000.0	419.1	-15.3	13.0	-36.9	020.0	27.0	1.000128	
24500.0	410.0	-16.5	14.0	-37.7	030.7	27.3	1.000126	
25000.0	402.5	-17.7	14.0	-38.0	030.7	27.2	1.000123	
25500.0	394.4	-18.7	14.0	-39.4	910.0	26.8	1.000121	
26000.0	386.5	-19.5	14.0	-40.1	940.0	24.3	1.000119	
26500.0	378.5	-20.0	14.0	-40.8	940.0	19.2	1.000117	
27000.0	370.7	-21.2	14.0	-41.5	030.2	13.6	1.000115	
27500.0	363.2	-22.1	14.0	-42.2	030.9	8.7	1.000113	
28000.0	355.8	-22.9	14.0	-42.9	220.5	7.0	1.000111	
28500.0	348.5	-23.8	14.0	-43.0	347.3	8.9	1.000109	
29000.0	341.4	-24.7	14.0	-44.4	320.0	12.6	1.000107	
29500.0	334.5	-25.7	14.0	-45.2	313.7	17.2	1.000105	
30000.0	327.5	-26.7	14.0	-46.1	300.5	21.9	1.000104	
30500.0	320.4	-27.8	14.0	-46.9	303.7	26.4	1.000102	
31000.0	313.7	-28.8	14.0	-47.5	304.0	28.4	1.000100	
31500.0	307.2	-29.0	14.0	-48.0	302.7	30.2	1.000098	
32000.0	300.8	-30.9	14.0	-49.5	302.6	31.4	1.000097	
32500.0	294.5	-31.9	12.5**	-51.5	302.5	32.6	1.000095	
33000.0	288.0	-33.0	10.5**	-53.3	304.2	33.6	1.000093	
33500.0	281.4	-34.1	8.4**	-56.3	305.0	34.6	1.000092	
34000.0	275.7	-35.1	6.0**	-59.1	300.0	35.2	1.000090	
34500.0	269.8	-36.2	4.4**	-62.9	300.2	35.9	1.000088	
35000.0	264.7	-37.3	2.5**	-67.3	304.1	36.5	1.000087	
35500.0	258.5	-38.5	0.5**	-70.7	302.1	37.2	1.000085	

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

UPPER AIR DATA
 32.88865 LAT DEG
 196.09965 LON DEG

27010300
 HOLLAND

0745 HRS MDT

TABLE 9 (continued)

SEA LEVEL PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CENTIGRADE	REL. HUMID. PERCENT	DENSITY GRAMS PER CUBIC METER	SPEED OF SOUND KIPTS	WIND DATA DIRECTION OF GREEK (TN)	WIND DATA SPEED KIPTS	INDEX OF REFRACTION
999.00.0	252.7	-39.0	375.9	596.2	299.2	38.6	1.000064
998.00.0	247.1	-39.0	369.0	595.0	296.5	40.1	1.000062
971.00.0	201.5	-41.5	362.6	595.2	294.9	41.0	1.000061
970.00.0	236.9	-42.6	356.7	591.5	292.7	41.8	1.000079
969.00.0	230.7	-44.0	350.7	589.8	290.9	40.8	1.000078
965.00.0	225.5	-45.3	344.9	588.0	300.2	39.9	1.000077
964.00.0	220.8	-46.7	339.1	586.2	304.0	39.7	1.000076
962.00.0	215.5	-48.1	333.5	584.5	308.9	39.6	1.000074
960.00.0	210.8	-49.4	327.9	582.7	304.6	38.9	1.000073
957.00.0	205.8	-50.8	322.5	581.0	302.1	38.4	1.000072
944.00.0	203.2	-52.1	317.2	579.2	299.6	38.3	1.000071
943.00.0	198.5	-53.4	311.5	577.6	297.0	38.2	1.000069
942.00.0	193.9	-54.5	305.7	576.0	295.6	36.9	1.000068
940.00.0	187.5	-55.7	300.1	574.5	294.1	35.7	1.000067
935.00.0	182.9	-56.9	294.6	572.9	294.9	35.8	1.000066
933.00.0	178.5	-58.1	289.2	571.4	296.0	36.1	1.000064
940.00.0	174.5	-59.2	283.8	569.3	300.3	37.6	1.000063
935.00.0	170.2	-60.4	278.6	568.2	304.1	39.2	1.000062
930.00.0	166.1	-61.6	273.5	566.6	305.9	37.9	1.000061
925.00.0	162.1	-62.7	268.4	565.2	307.9	36.6	1.000060
920.00.0	158.2	-63.8	262.9	564.0	307.7	35.6	1.000059
915.00.0	154.5	-64.5	257.6	562.5	307.4	34.6	1.000057
910.00.0	150.5	-65.4	252.4	561.6	305.2	33.8	1.000056
907.00.0	146.4	-66.2	247.0	560.5	298.6	33.2	1.000055
905.00.0	142.1	-66.9	241.7	559.4	296.5	33.1	1.000054
900.00.0	137.5	-67.7	236.0	558.4	293.1	33.2	1.000053
900.00.0	133.0	-68.5	231.5	557.5	303.7	31.9	1.000052
900.00.0	128.5	-69.5	226.6	556.5	309.9	30.5	1.000050
900.00.0	124.5	-70.9	221.7	555.2	313.9	28.7	1.000049
900.00.0	120.0	-72.4	217.0	554.1	316.7	26.6	1.000048
900.00.0	115.5	-71.5	212.4	553.1	319.5	24.4	1.000047
900.00.0	111.0	-72.6	207.9	552.0	321.5	22.2	1.000046

UPPER AIR DATA
 2740010300
 110LLV"AN

STATION ALTITUDE 1120.53 FEET MSL
 30 SEP 51
 ASCENSION NO. 309
 0745 HRS MDT

GEODETIC COORDINATES
 32.84865 LAT DEG
 106.09965 LON DEG

TABLE 9 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KILOMETERS PER SECOND	WIND DATA		INDEX OF REFRACTION
						DIRECTION, DEGREES (TN)	SPEED KNOTS	
32000.0	113.8	-73.1		203.4	551.0	321.8	19.9	1.000045
32500.0	113.8	-73.5		198.0	550.4	319.3	15.1	1.000044
33000.0	110.9	-74.0		193.9	549.8	314.6	10.4	1.000043
33500.0	108.1	-73.8		188.8	550.0	312.6	8.4	1.000042
34000.0	105.3	-73.4		183.6	550.6	323.5	6.6	1.000041
34500.0	102.6	-73.0		178.6	551.2	341.8	7.4	1.000040
35000.0	100.0	-72.6		173.7	551.7	351.5	9.0	1.000039
35500.0	97.4	-72.4		169.1	552.0		10.0	1.000038
36000.0	95.0	-72.1		164.6	552.4	9.7	10.8	1.000037
36500.0	92.6	-71.9		160.2	552.7	17.3	11.7	1.000036
37000.0	90.2	-71.7		156.0	553.0	23.5	12.2	1.000035
37500.0	87.9	-71.4		151.8	553.3	29.3	12.7	1.000034
38000.0	85.7	-71.2		147.6	553.6	30.4	12.2	1.000033
38500.0	83.5	-71.3		144.2	553.5	30.3	11.4	1.000032
39000.0	81.4	-71.7		140.8	553.0	31.5	10.9	1.000031
39500.0	79.3	-72.1		137.4	552.5	34.1	10.9	1.000031
40000.0	77.3	-72.4		134.2	552.0	36.8	11.0	1.000030
40500.0	75.4	-72.8		131.0	551.4	40.0	10.9	1.000029
41000.0	73.5	-71.7		127.1	552.7	43.2	10.9	1.000028
41500.0	71.6	-70.9		123.3	554.0	47.9	10.6	1.000027
42000.0	69.8	-70.0		119.7	555.2	53.2	10.4	1.000027
42500.0	68.1	-69.4		116.4	556.1	59.0	10.4	1.000026
43000.0	66.4	-68.8		113.2	556.9	59.2	10.6	1.000025
43500.0	64.8	-68.2		110.0	557.6	54.5	10.7	1.000024
44000.0	63.2	-67.5		107.0	558.0	54.8	10.8	1.000024
44500.0	61.6	-66.9		104.1	559.5	55.3	10.8	1.000023
45000.0	60.1	-66.3		101.2	560.3	57.5	10.8	1.000023
45500.0	58.6	-65.7		98.4	561.2	63.6	10.7	1.000022
46000.0	57.2	-65.0		95.7	562.0	69.6	10.7	1.000021
46500.0	55.8	-64.4		93.1	562.8	72.9	10.7	1.000021
47000.0	54.4	-63.8		90.5	563.7	75.5	10.6	1.000020
47500.0	53.0	-63.2		88.0	564.5	78.3	10.7	1.000020

STATION ALTITUDE 4126.59 FEET MSL
 30 SEP 57
 ASCENSION NO. 301
 0745 HRS MDT

UPPER AIR DATA
 2740010300
 HULLO'AW

GEODETTIC COORDINATES
 32.88865 LAT DEG
 106.09965 LON DEG

TABLE 9 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES C	REL. HUM. PERCENT	DENSITY GRAMS PER CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TD)	SPEED KNOTS	
6500.0	51.7	-62.6	.	85.6	565.4	81.9	11.1	1.000019
6400.0	50.5	-61.9	.	83.2	569.2	82.1	11.5	1.000019
6300.0	49.2	-61.3	.	81.0	577.0	92.5	12.0	1.000018
6200.0	48.1	-60.8	.	78.9	587.7	101.4	12.6	1.000018
6100.0	46.9	-60.2	.	76.8	598.5	107.3	13.5	1.000017
6000.0	45.8	-59.7	.	74.7	609.2	110.9	11.8	1.000017
5900.0	44.7	-59.1	.	72.6	620.0	115.1	10.2	1.000016
5800.0	43.7	-58.5	.	70.9	630.7	110.6	8.5	1.000016
5700.0	42.6	-58.0	.	69.0	641.5	92.6	7.2	1.000015
5600.0	41.6	-57.4	.	67.2	652.2	69.9	6.8	1.000015
5500.0	40.6	-56.9	.	65.4	662.9	57.6	7.4	1.000015
5400.0	39.6	-56.4	.	63.7	673.6	58.0	8.1	1.000014
5300.0	38.7	-56.2	.	62.2	684.3	53.4	8.9	1.000014
5200.0	37.8	-56.1	.	60.7	694.0	60.9	9.1	1.000014
5100.0	36.9	-55.9	.	59.2	704.2	65.6	8.9	1.000013
5000.0	36.0	-55.8	.	57.6	714.4	70.3	8.8	1.000013
4900.0	35.2	-55.6	.	56.4	724.6	63.5	9.0	1.000013
4800.0	34.4	-55.5	.	55.0	734.8	55.6	9.5	1.000012
4700.0	33.6	-55.3	.	53.7	745.0	47.0	10.3	1.000012
4600.0	32.8	-55.2	.	52.4	755.2	44.3	11.0	1.000012
4500.0	32.0	-55.0	.	51.1	765.4	43.9	11.7	1.000011
4400.0	31.3	-54.9	.	49.9	775.6	43.5	12.3	1.000011
4300.0	30.5	-54.7	.	48.7	785.8	47.0	12.2	1.000011
4200.0	29.8	-54.5	.	47.5	796.0	54.2	11.9	1.000011
4100.0	29.1	-54.2	.	46.4	806.4	61.0	11.8	1.000010
4000.0	28.5	-53.9	.	45.2	816.8	65.1	11.8	1.000010
3900.0	27.8	-53.6	.	44.1	827.2	63.6	11.8	1.000010
3800.0	27.2	-53.3	.	43.0	837.6	63.0	11.9	1.000010
3700.0	26.5	-53.0	.	42.0	848.0	63.4	11.9	1.000009
3600.0	25.9	-52.7	.	41.0	858.4	70.6	11.8	1.000009
3500.0	25.3	-52.4	.	40.0	868.8	71.8	11.7	1.000009
3400.0	24.7	-52.1	.	39.0	879.2	73.3	11.5	1.000009

STATION ALTITUDE 4120.59 FEET MSL
 30 SEP 79
 ASLCSA01, NO. 300

UPPER AIR DATA
 270010Z000
 HOLL01A14

0745 HRS MDT

GEODETIC COORDINATES
 32.88865 LAT DEG
 106.09465 LONG DEG

TABLE 9 (continued)

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED SOUND KNOTS	SPEED OF WIND DIR. (TAN) DEGREES	WIND DIRECTION KNOTS	INDEX OF REFRACTION
34000.0	24.2	-51.0		33.0	579.6	70.2	10.9	1.000008
34500.0	23.6	-51.5		37.1	580.0	73.4	10.4	1.000008
35000.0	23.1	-51.2		30.2	580.4	85.0	9.8	1.000008
35500.0	22.5	-50.9		35.3	580.8	84.1	9.7	1.000008
36000.0	22.0	-50.6		34.5	581.2	84.9	9.5	1.000008
36500.0	21.5	-50.3		33.6	581.6	85.8	9.3	1.000007
37000.0	21.0	-49.9		32.8	582.0	84.0	9.1	1.000007
37500.0	20.5	-49.6		32.0	582.4	82.4	8.8	1.000007
38000.0	20.1	-49.3		31.2	582.8	80.2	8.5	1.000007
38500.0	19.6	-49.1		30.5	583.1	76.9	8.1	1.000007
39000.0	19.2	-48.9		29.8	583.4	72.2	7.6	1.000007
39500.0	18.7	-48.6		29.1	583.7	66.9	7.1	1.000006
40000.0	18.3	-48.4		28.4	584.0	60.9	6.7	1.000006
40500.0	17.9	-48.2		27.7	584.3	56.6	6.6	1.000006
41000.0	17.5	-47.9		27.1	584.6	53.7	6.7	1.000006
41500.0	17.1	-47.7		26.4	584.9	50.9	6.8	1.000006
42000.0	16.7	-47.5		25.8	585.2	48.2	6.9	1.000006
42500.0	16.4	-47.2		25.2	585.5	51.9	6.7	1.000006
43000.0	16.0	-47.0		24.6	585.8	58.3	6.4	1.000005
43500.0	15.6	-46.9		24.1	586.1	65.4	6.1	1.000005
44000.0	15.3	-46.5		23.5	586.4	72.9	6.0	1.000005
44500.0	14.9	-46.3		22.9	586.7	78.9	5.5	1.000005
45000.0	14.6	-46.1		22.4	587.0	85.7	5.0	1.000005
45500.0	14.3	-45.8		21.9	587.3	93.9	4.6	1.000005
46000.0	14.0	-45.6		21.4	587.6	103.4	4.3	1.000005
46500.0	13.6	-45.4		20.9	587.9	85.9	3.3	1.000005
47000.0	13.3	-45.2		20.4	588.2	57.3	2.7	1.000005
47500.0	13.0	-44.9		19.9	588.5	20.0	3.1	1.000004
48000.0	12.7	-44.7		19.4	588.8	5.9	3.9	1.000004
48500.0	12.5	-44.5		19.0	589.1	35.3	4.6	1.000004
49000.0	12.2	-44.2		18.5	589.4	54.7	5.4	1.000004
49500.0	11.9	-44.0		18.1	589.7	33.3	6.4	1.000004

GEODETIC COORDINATES
 32.88865 LAT DEG
 106.09965 LON DEG

UPPER AIR DATA
 270010300
 HOLLORAN

STATION ALTITUDE 9120.50 FEET
 0745 HRS MDT

TABLE 9 (continued)

GEOMETRIC ALTITUDE FOOT FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CENTIGRADE	REL. HUM. PERCENT	DENSITY GRAMS PER CUBIC CENTIMETER	SPEED OF SOUND KIOTS	WIND DATA DIRECTION DEGREES TRUE	SPEED KIOTS	INDEX OF REFRACTION
10000.0	11.7	-43.4		17.7	590.0			1.000004
10000.0	11.6	-43.5		17.3	590.3			1.000004
10100.0	11.1	-43.3		16.9	590.9			1.000004
10100.0	10.9	-43.1		16.5	590.9			1.000004
10200.0	10.6	-42.9		16.1	591.2			1.000004
10200.0	10.4	-42.6		15.7	591.5			1.000003
10300.0	10.2	-42.4		15.3	591.8			1.000003

STATION ALTITUDE 4126.59 FEET MSL
 30 3. P. 32
 0745 HRS MDT
 ASCENSION NO. 369

MANDATORY LEVELS
 2740010360
 HOLLOWAN

GEODETTIC COORDINATES
 32.88865 LAT DEG
 106.09965 LONG DEG

TABLE 10.

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPT. DEGREES	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
85.0	5108.	21.9	14.5	63.	119.5	2.6	
80.0	6833.	20.8	-0.8	24.	108.5	6.3	
75.0	8646.	16.1	-2.1	29.	80.5	7.3	
70.0	10551.	11.0	-4.2	34.	58.4	8.4	
65.0	12562.	6.3	-9.0	32.	67.2	17.7	
60.0	14705.	4.5	-20.7	14.	85.9	10.4	
55.0	17015.	1.8	-23.6	13.	107.0	23.3	
50.0	19504.	-5.1	-29.2	13.	91.2	28.3	
45.0	22107.	-11.2	-34.1	13.	78.8	28.6	
40.0	25114.	-18.1	-39.0	14.	87.8	27.1	
35.0	28352.	-23.6	-43.5	14.	353.5	8.2	
30.0	31905.	-31.0	-49.6	14.	302.5	31.5	
25.0	36161.	-39.2			298.0	39.2	
20.0	41045.	-52.5			299.0	38.2	
175.0	43825.	-59.0			299.0	37.4	
150.0	46905.	-65.5			302.7	33.7	
125.0	50535.	-71.1			317.8	25.9	
100.0	54826.	-72.6			351.0	8.9	
80.0	59144.	-71.9			33.1	10.9	
70.0	61727.	-70.1			52.3	10.4	
60.0	64763.	-66.3			57.1	10.8	
50.0	68428.	-61.7			80.1	11.7	
40.0	73018.	-56.5			57.9	7.8	
30.0	79035.	-54.6			52.0	12.0	
25.0	82895.	-52.2			72.4	11.6	
20.0	87654.	-49.3			80.1	9.5	
15.0	93393.	-46.4			70.0	5.7	
10.0	102801.	-42.2					

SYNOPTIC LEVEL DATA
 2740030Z07
 JALFF
 33.16712 LAT DEG
 106.49511 LONG DEG

SYNOPTIC LEVEL DATA
 2740030Z07
 JALFF

0850 HRS MDT

TABLE 11.

PRECIPITATION MILLI AND INCHES	GEOMETRIC ALTITUDE FEET	TEMPERATURE AIR DEGREES CENTIGRADE	RELATIVE HUMIDITY PERCENT
682.6	9051.0	17.1	78.0
653.6	8664.6	20.6	75.0
656.0	8107.5	17.8	71.0
700.0	7533.3	19.9	68.0
700.0	7029.9	10.3	30.0
650.0	6539.2	5.6	34.0
610.0	6061.8	3.0	17.0
600.0	5635.5	4.3	12.0
584.0	5396.4	2.6	11.0
558.4	4956.5	2.3	10.0
500.0	4476.6	-5.5	10.0
460.0	4120.7	-9.7	11.0
453.0	3750.8	-10.0	10.0
400.0	3297.6	-18.2	10.0
360.1	2922.7	-20.0	11.0
300.0	2464.2	-23.0	11.0
300.0	2075.2	-27.5	11.0
200.0	1645.7	-31.4	11.0
200.0	1214.2	-40.6	11.0
163.0	813.3	-53.5	11.0
100.0	404.1	-62.4	11.0
100.0	0.0	-65.5	11.0
143.0	4763.9	-67.0	11.0
124.0	5069.1	-71.0	11.0
107.0	5377.0	-73.6	11.0
100.0	5662.6	-71.1	11.0
70.0	6102.4	-69.8	11.0
50.0	6569.2	-61.6	11.0
42.4	7209.7	-57.0	11.0
50.0	7325.0	-55.7	11.0

STATION ALTITUDE 4051.00 FEET ASL
 50 P. 03
 0850 HRS MDT
 ALCI STATION NO. 207

UPPER AIR DATA
 270000Z07
 JALLFI

GLOTTIC COORDINATES
 33.16712 LAT DEG
 106.49511 LONG DEG

TABLE 12.

GEOMETRIC ALTITUDE FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TR)	WIND SPEED KNOTS	INDEX OF REFRACTION
4051.0	882.9	17.1	58.0	1053.9	665.3	00	00	1.000210
4500.0	903.5	19.2	49.5	1029.9	667.7	07.5	08	1.000277
5000.0	953.2	19.0	42.0	1010.1	668.5	07.5	17	1.000268
5500.0	983.5	19.7	36.5	993.4	668.0	07.5	26	1.000258
6000.0	923.6	19.6	30.2	975.9	667.0	101.5	32	1.000248
6500.0	893.1	19.5	24.2	960.7	667.3	115.9	40	1.000238
7000.0	864.9	19.2	19.2	945.2	668.8	120.0	44	1.000230
7500.0	830.7	18.2	20.7	932.5	665.4	124.2	47	1.000227
8000.0	800.3	18.7	22.3	919.6	663.9	129.9	48	1.000224
8500.0	753.1	15.4	23.8	907.2	662.5	133.2	49	1.000221
9000.0	739.6	14.2	25.3	894.9	661.0	134.9	50	1.000218
9500.0	720.4	12.9	26.9	882.0	659.0	122.7	42	1.000215
10000.0	713.5	11.6	28.4	871.0	658.1	98.9	36	1.000212
10500.0	708.8	10.4	29.9	859.3	658.6	80.1	40	1.000209
11000.0	696.6	9.1	31.0	847.5	655.1	42.0	6.3	1.000206
11500.0	675.4	7.8	32.1	835.9	653.6	37.0	9.1	1.000203
12000.0	663.1	6.5	33.3	824.5	652.1	52.5	11.6	1.000199
12500.0	650.9	5.4	32.2	812.7	650.7	63.8	14.0	1.000195
13000.0	639.8	4.7	30.6	799.8	649.9	77.3	13.3	1.000194
13500.0	627.3	4.1	21.0	787.1	649.0	87.7	12.3	1.000189
14000.0	615.4	3.8	15.7	773.6	648.5	95.5	10.4	1.000179
14500.0	604.0	4.1	11.9	758.4	648.9	97.8	9.7	1.000174
15000.0	592.8	3.3	11.4	746.6	647.9	96.5	9.4	1.000171
15500.0	581.7	2.6	10.9	734.6	647.1	102.6	11.7	1.000168
16000.0	570.9	2.4	10.5	721.2	646.9	100.3	14.4	1.000164
16500.0	560.2	2.3	10.1	708.1	646.8	109.9	17.7	1.000161
17000.0	549.0	1.2	10.0	697.7	645.4	113.4	20.0	1.000159
17500.0	539.2	-0.2	10.0	687.9	643.3	116.6	21.8	1.000156
18000.0	529.3	-1.5	10.0	678.2	642.2	115.6	22.6	1.000154
18500.0	519.9	-2.9	10.0	668.7	640.0	113.6	23.2	1.000152
19000.0	509.2	-4.2	10.0	659.4	639.0	109.1	23.2	1.000149
19500.0	499.5	-5.6	10.0	650.1	637.4	105.1	23.5	1.000147

0850 HRS MDT
 270000Z
 33.16712 LAT 126
 106.49511 LONG 126

INDEX AT 1000
 270000Z
 JALLET

OPTIC COORDINATES
 33.16712 LAT 126
 106.49511 LONG 126

TABLE 12 (continued)

DEPTH METERS	PRESSURE MILLIBARS	TEMPERATURE DEGREES CELSIUS	SALINITY PERMIL	DENSITY G/CM ³	SOUND VELOCITY M/SEC	ANGLE OF DIRECTION DEGREES TRUE	WAVE DATA PERIOD SECONDS	INDEX OF REFRACTION
0000.0	99.99	-6.7	35.4	1.023	640.4	90.9	24.6	1.000145
0050.0	99.9	-7.0	35.5	10.0	630.0	90.1	26.9	1.000142
0100.0	97.1	-9.1	35.2	10.0	621.5	73.1	30.1	1.000140
0150.0	90.1	-10.0	35.1	10.7	611.4	73.0	32.4	1.000138
0200.0	85.2	-10.7	34.3	10.0	601.1	70.5	33.7	1.000135
0250.0	80.3	-11.0	33.5	10.0	591.9	72.4	32.3	1.000133
0300.0	75.1	-13.1	33.2	10.0	582.0	77.0	30.7	1.000131
0350.0	70.5	-14.5	32.2	10.0	573.9	84.0	29.1	1.000129
0400.0	66.0	-15.5	31.1	10.0	565.2	87.5	28.6	1.000127
0450.0	61.7	-16.3	30.1	10.0	550.0	90.0	28.2	1.000125
0500.0	58.6	-16.0	29.0	10.0	543.1	94.6	27.4	1.000123
0550.0	55.5	-13.3	27.7	10.5	539.9	93.5	26.2	1.000121
0600.0	52.5	-20.7	28.3	11.0	531.0	101.4	23.9	1.000119
0650.0	47.6	-21.4	27.3	11.0	522.5	93.7	20.8	1.000117
0700.0	43.9	-22.1	26.5	11.0	513.5	90.0	17.4	1.000115
0750.0	40.4	-22.0	25.0	11.0	504.2	78.2	15.5	1.000113
0800.0	37.5	-23.0	24.0	11.0	495.9	83.2	14.8	1.000111
0850.0	34.5	-25.0	23.0	11.0	487.8	83.7	13.8	1.000109
0900.0	31.5	-26.1	22.3	11.0	479.9	82.5	12.9	1.000107
0950.0	28.5	-27.3	21.6	11.0	472.2	82.9	10.6	1.000106
1000.0	25.5	-28.6	20.9	11.0	463.9	79.2	9.5	1.000104
1050.0	22.4	-29.0	20.0	11.0	455.7	55.9	11.4	1.000102
1100.0	19.4	-29.0	19.0	11.0	447.6	31.1	14.8	1.000100
1150.0	16.4	-30.6	18.0	11.0	439.7	30.1	18.8	1.000098
1200.0	13.4	-31.5	17.0	11.0	431.9	29.9	22.0	1.000096
1250.0	10.4	-32.0	16.0	11.0	424.5	29.9	26.6	1.000095
1300.0	7.4	-33.7	15.0	11.0	417.5	30.9	29.5	1.000093
1350.0	4.4	-34.6	14.0	11.0	410.1	30.9	31.5	1.000091
1400.0	1.4	-35.9	13.0	11.0	403.1	30.4	33.4	1.000090
1450.0	0.0	-37.0	12.0	11.0	396.5	30.5	35.2	1.000088
1500.0	0.0	-38.1	11.0	11.0	390.5	29.7	36.0	1.000087
1550.0	0.0	-39.2	10.0	11.0	384.9	27.5	38.6	1.000085

** - VALUES IN PARENTS ARE ESTIMATED BY INTERPOLATION.

GEODETIC COORDINATES
33-16712 LAT LEG
106-49511 LONG LEG

UPPER AIR DATA
2700030267
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
0850 HRS MDT
ACCELERATION NO. 207

TABLE 12 (continued)

GEOMETRIC ALTITUDE FSL FEET	PRESSURE	TEMPERATURE ALTIMETER DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY G/CM ³ METP	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TYP)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
36000.0	251.6	-40.5		376.4	594.5	290.1	39.0	1.000064
35500.0	246.0	-41.5		370.0	592.9	294.9	39.4	1.000082
35000.0	240.4	-42.9		363.7	591.2	293.7	39.9	1.000061
34500.0	235.1	-44.2		357.5	589.5	293.3	40.3	1.000050
34000.0	229.6	-45.5		351.4	587.8	293.3	40.2	1.000078
33500.0	224.4	-46.8		345.5	586.1	297.0	39.9	1.000077
33000.0	219.3	-48.2		339.6	584.4	300.7	39.4	1.000076
32500.0	214.4	-49.5		333.9	582.6	301.9	38.5	1.000074
32000.0	209.5	-50.8		328.3	580.9	300.8	37.0	1.000073
31500.0	204.9	-52.1		322.8	579.2	293.2	36.0	1.000072
31000.0	200.1	-53.5		317.4	577.4	297.1	35.6	1.000071
30500.0	195.4	-54.5		311.3	576.0	297.5	35.4	1.000069
30000.0	190.7	-55.6		305.4	574.6	300.0	35.3	1.000068
29500.0	186.2	-56.7		299.6	573.2	303.5	34.9	1.000067
29000.0	181.8	-57.7		294.0	571.8	303.7	34.3	1.000065
28500.0	177.4	-58.8		288.4	570.4	303.5	34.0	1.000064
28000.0	173.2	-59.9		282.9	568.9	305.1	34.2	1.000063
27500.0	169.1	-60.9		277.6	567.5	304.2	34.4	1.000062
27000.0	165.1	-62.0		272.4	566.1	303.6	34.4	1.000061
26500.0	161.1	-63.0		267.0	564.8	303.0	34.3	1.000059
26000.0	157.2	-63.8		261.6	563.6	303.7	33.9	1.000058
25500.0	153.5	-64.7		256.2	562.4	303.0	33.5	1.000057
25000.0	149.9	-65.6		251.1	561.2	302.4	33.4	1.000056
24500.0	146.4	-66.3		246.2	559.9	301.4	33.2	1.000055
24000.0	142.8	-67.3		241.3	558.2	303.1	32.8	1.000054
23500.0	139.7	-68.0		236.2	557.2	304.8	32.4	1.000053
23000.0	136.2	-69.4		231.1	556.1	307.0	31.1	1.000051
22500.0	132.8	-70.2		226.1	555.1	310.0	29.9	1.000050
22000.0	129.5	-70.9		221.3	554.0	312.5	28.3	1.000049
21500.0	126.2	-71.7		216.6	553.0	313.6	26.5	1.000048
21000.0	122.8	-72.1		211.5	552.4	314.0	24.2	1.000047
20500.0	119.9	-72.4		206.4	552.0	314.0	21.3	1.000046

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LONG DEG

UPPER AIR DATA
 2700030207
 JALLEN

STATION ALTITUDE 4001.00 FEET MSL
 30 SEP 57
 ASCENDING 100. 257
 0850 HRS MDT

TABLE 12 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE ALL DEGREES CENTIGRADE	RELATIVE HUMIDITY PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KIPTS	WIND DIRECTION DEGREES TRUE	WIND SPEED KNOTS	INDEX OF REFRACTION
63000.0	51.5	-62.3		85.2	565.0	63.5	10.7	1.000019
65000.0	50.5	-61.7		82.0	566.5	49.4	11.2	1.000018
67000.0	49.1	-61.2		80.0	567.2	103.9	11.8	1.000018
69000.0	47.9	-60.5		78.5	567.9	110.5	10.5	1.000017
70000.0	46.7	-60.1		76.4	568.7	126.0	9.5	1.000017
70500.0	45.6	-59.5		74.4	569.4	120.4	7.3	1.000017
71000.0	44.5	-59.0		72.4	570.1	119.2	4.2	1.000016
71500.0	43.5	-58.5		70.5	570.8	74.0	1.7	1.000016
72000.0	42.4	-57.9		68.7	571.6	39.4	4.7	1.000015
72500.0	41.4	-57.3		67.0	571.8	32.5	8.0	1.000015
73000.0	40.4	-57.0		65.4	572.0	37.1	10.7	1.000015
73500.0	39.5	-57.4		63.8	572.2	46.7	12.9	1.000014
74000.0	38.6	-57.3		62.2	572.4	50.8	15.4	1.000014
74500.0	37.7	-57.1		60.7	572.6	62.0	14.9	1.000014
75000.0	36.8	-57.0		59.2	572.8	67.5	14.0	1.000013
75500.0	35.9	-56.8		57.8	573.0	73.1	13.1	1.000013
76000.0	35.0	-56.7		56.4	573.2	77.6	11.6	1.000013
76500.0	34.2	-56.5		55.0	573.4	63.3	10.3	1.000012
77000.0	33.4	-56.4		53.7	573.6			1.000012
77500.0	32.6	-56.2		52.4	573.8			1.000012
78000.0	31.9	-56.1		51.1	574.0			1.000011
78500.0	31.1	-55.9		49.9	574.2			1.000011
79000.0	30.4	-55.3		48.7	574.4			1.000011

GEODETIC COORDINATES
 33.10712 LAT LEG
 106.49511 LON LEG

WADSWORTH LEVELS
 27400 JUNE 67
 JALLEN

WADSWORTH LEVELS
 27400 JUNE 67
 JALLEN

0850 HRS MDT

TABLE 13.

PRESSURE OF POTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
952.0	5174.	19.8	6.2	41.	87.3	1.9	
909.0	6315.	19.4	-5.6	20.	118.0	4.2	
790.0	8021.	15.1	-5.2	24.	133.0	4.9	
700.0	10220.	10.3	-6.5	30.	50.4	4.1	
650.0	12524.	5.3	-10.1	32.	64.0	14.0	
600.0	14650.	3.8	-25.2	12.	97.7	9.5	
550.0	16467.	1.2	-27.0	10.	113.3	19.9	
500.0	19450.	-5.5	-32.2	10.	103.7	25.4	
450.0	22130.	-11.1	-36.0	10.	70.9	33.3	
400.0	25057.	-14.2	-42.2	10.	95.5	27.3	
350.0	28275.	-20.6	-46.5	11.	58.4	14.2	
300.0	31912.	-31.4			299.9	22.6	
250.0	36063.	-40.6			295.8	39.1	
200.0	40916.	-53.5			297.1	35.6	
175.0	43577.	-59.4			305.0	34.1	
150.0	46815.	-65.5			302.0	33.4	
125.0	50594.	-71.8			313.9	20.5	
100.0	54635.	-71.1			350.2	11.1	
80.0	59036.	-70.3			50.5	0.2	
70.0	61643.	-69.8			52.9	11.1	
60.0	64335.	-66.0			60.4	10.8	
50.0	67351.	-61.6			101.3	11.3	
40.0	70750.	-57.5			42.1	11.5	
30.0	74504.	-55.7					

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