



12

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

AD  
DR 1224  
Feb 82

AD A113887

METEOROLOGICAL DATA REPORT

12833A Lance  
Missile Number 4577  
Round Number 374-MSL  
25 February 1982

by

DONALD C. KELLER  
Program Support Coordinator  
Phone Number (505) 679-9568  
AVN Number 349-9568

ATMOSPHERIC SCIENCES LABORATORY  
WHITE SANDS MISSILE RANGE, NEW MEXICO

.....  
**ECOM**  
UNITED STATES ARMY ELECTRONICS COMMAND

**DTIC**  
**ELECTE**  
**S** APR 27 1982  
**E**

82 04 26 182

**DISPOSITION INSTRUCTIONS**

**Destroy this report when it is no longer needed. Do not return to the originator.**

**DISCLAIMER**

**The findings in this report are not to be construed as an official Department of the Army position, unless so designated by other authorized documents.**

**The citation of trade names and names of manufacturers in this report is not to be construed as official Government indorsement or approval of commercial products or services referenced herein.**

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM	
1. REPORT NUMBER DR 1224	2. GOVT ACCESSION NO. AD-A113887	3. RECIPIENT'S CATALOG NUMBER	
4. TITLE (and Subtitle) 12833A Lance, Missile Number 4577, Round Number 374-MSL		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		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS	
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Cmd Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 88002		12. REPORT DATE Feb 82	
		13. NUMBER OF PAGES 34	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research & Development Cmd Adelphi, MD 20783		15. SECURITY CLASS. (of this report) UNCLASSIFIED	
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE	
16. DISTRIBUTION STATEMENT (of this Report)			
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) Approved for public release; distribution unlimited.			
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 12833A Lance, Missile No. 4577, Round Number 374-MSL presented in tabular form.			

DD FORM 1473 1 JAN 73 EDITION OF 1 NOV 65 IS OBSOLETE

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

CONTENTS	PAGE
INTRODUCTION -----	1
DISCUSSION -----	1
GENERAL AREA MAP -----	2
TABLES	
1. Surface Observation Taken at 0906 MST at Don Site	3
2. Pilot-balloon Measured Wind Data at 0851 MST at Don Site -----	4
3. Pilot-balloon Measured Wind Data at 0906 MST at Don Site -----	5
4. Pilot-balloon Measured Wind Data at 0856 MST at LC-36 -----	6
5. Pilot-balloon Measured Wind Data at 0906 MST at LC-36 -----	7
6. Computer Met Message Data -----	8
7. WSD Significant Level Data at 0850 MST -----	9
8. WSD Upper Air Data at 0850 MST -----	11
9. WSD Mandatory Levels at 0850 MST -----	16
10. NW-30 Significant Level Data at 0800 MST -----	17
11. NW-30 Upper Air Data at 0800 MST -----	19
12. NW-30 Mandatory Levels at 0800 MST -----	23
13. Jallen Significant Level Data at 0850 MST -----	24
14. Jallen Upper Air Data at 0850 MST -----	26
15. Jallen Mandatory Levels at 0850 MST -----	31



Accession For	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
NTIS GRA&I	
DTIC TAB	
Unannounced	
Justification	
By	
Distribution/	
Availability Codes	
Avail and/or	
Dist	
Special	

A

## INTRODUCTION

12833A Lance, Missile Number 4577, Round Number 374-MSL, was launched from Don Site, White Sands Missile Range (WSMR), New Mexico, at 0906 MST, 25 Feb 1982. The scheduled launch time was 0900 MST.

## DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

### 1. Observations

#### a. Surface

(1) Standard surface observations to include pressure, temperature ( $^{\circ}\text{C}$ ), relative humidity, dew point ( $^{\circ}\text{C}$ ), density ( $\text{gm}/\text{m}^3$ ), wind direction and speed, and cloud cover were made at the Don Met Site at T-0 minutes.

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

#### b. Upper Air

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

### SITE AND ALTITUDE

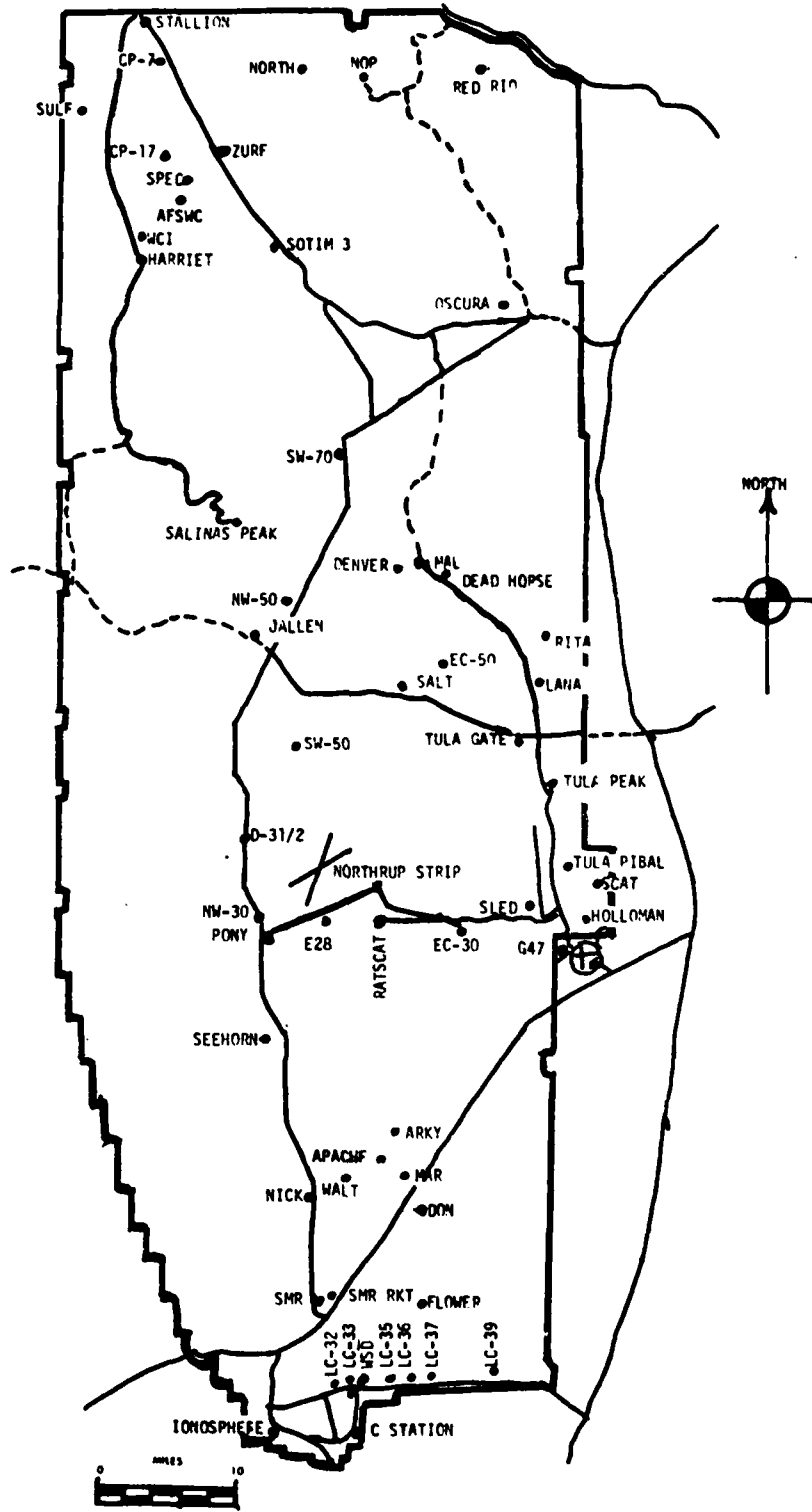
Don Site	1260 meters	0960 MST
Don Site	1380 meters	0851 MST
LC-36	2760 meters	0906 MST
LC-36	2760 meters	0856 MST

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

### SITE AND TIME

WSD	0850 MST
NW-30	0800 MST
Jallen	0850 MST

# WSMR METEOROLOGICAL SITES



PROJECT SURFACE OBSERVATION

TABLE 1		STATION		DON SITE			
DATE	DAY	MONTH	YEAR	X=	Y=	H=	
0906	25	Feb	1982	511,396.36	247,396.36	3996.8	
TIME	M	S	J	DIRECTION	SPEED	CHARACTER	VISIBIL- ITY
0906				E200	05		15

OBSTRUCTIONS TO VISIBILITY	CLOUDS						REMARKS
	1st LAYER		2nd LAYER		3rd LAYER		
	AMT	HGT	AMT	HGT	AMT	HGT	
	1	SC	2000	9	SC	E4500	RW

PSYCHROMETRIC COMPUTATION

TIME:	0906
DRY BULB TEMP.	3.4
WET BULB TEMP.	2.1
WET BULB DEPR.	1.3
DEW POINT	0.6
RELATIVE HUMID.	82









TABLE 6

## COMPUTER MET MESSAGE DATA

25 Feb 1982

WSD 0850 MST	NW-30 0800 MST	Jallen 0850 MST
METCM1324064	METCM1329065	METCM1332065
251580122886	251500122884	251580124883
00427010 27750886	00311005 27860884	00160004 27810883
01276007 27580875	01 MISG 27800873	01120007 27680872
02246011 27310848	02 MISG 27650847	02139006 27510845
03239018 27210807	03280015 27480806	03290009 27250804
04366006 27250758	04255013 27240757	04328013 27100755
05493010 27170712	05458010 27160711	05435014 27010709
06485016 26880668	06478020 26850668	06461019 26770666
07483012 26410627	07471020 26480626	07474022 26470624
08451015 26020588	08456022 26120587	08463020 26140585
09441015 25910550	09428017 25770550	09419014 25870548
10411020 25550515	10428019 25390514	10413015 25500513
11397022 25210482	11416021 25130481	11420018 25120480
12390026 24710435	12390029 24600434	12395026 24540433
13393027 23890378	13363038 23810377	13374033 23750376
14400036 23050327	14372044 22950326	14375037 22950325
15405040 22300281	15400038 22200280	15404035 22230279
16398042 21910241	16390051 21880240	16397043 21810239
17399051 22030207	17398053 21970206	17401049 22070205
18422050 22170177	18420046 22010176	18413042 22040176
19434055 21940152	19421055 21740151	19423054 21780150
20440049 21650130	20434050 21550129	20436051 21710129
21444052 21580111	21443050 21450110	21445044 21560110
22425038 21420095	22422042 21280094	22424039 21310094
23437031 21190081	23442033 21090080	23437036 21120080
24459021 21130069	24463018 20980068	24453020 20950068
25440010 20990059	25457012 20890058	25489009 21120058
26546011 21100050	26541007 20990049	26487012 21120049

STATION ALTITUDE 3989.00 FEET MSL  
 25 FEB. 62 0850 HRS MST  
 ASCENSION NO. 71

SIGNIFICANT LEVEL DATA  
 0560020071  
 WHITE JARUS  
 TABLE 7

GEODESIC COORDINATES  
 32.40043 LAT DEG  
 106.37033 LONG DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	RELATIVE HUMIDITY PERCENT
886.0	3989.0	3.4	-0.1	78.0
871.4	4430.3	1.1	-0.8	67.0
850.0	5085.6	-7	-1.0	92.0
833.4	5602.6	-1.9	-2.7	94.0
814.4	6206.2	-1.5	-2.5	94.0
767.8	7748.8	-1.9	-2.7	94.0
740.2	8709.3	-5	-1.5	94.0
700.0	10171.9	-2.9	-4.0	92.0
624.8	13106.0	-8.1	-9.0	89.0
600.0	13800.8	-9.3	-17.5	51.0
587.7	14660.7	-11.5	-17.5	61.0
566.2	15598.1	-12.9	-17.7	67.0
541.6	16707.8	-15.0	-21.0	60.0
525.6	17451.2	-16.8	-24.5	51.0
500.0	18678.4	-19.4	-31.5	33.0
486.4	19351.1	-20.6	-27.0	53.0
471.2	20120.8	-22.5	-34.0	34.0
456.2	20899.7	-24.1	-37.7	27.0
448.6	21302.5	-24.5	-32.5	47.0
434.0	22092.8	-26.1	-36.8	29.0
412.2	23312.7	-29.0	-39.0	37.0
400.0	24017.0	-30.8	-43.0	27.0
343.8	27486.0	-40.1		
330.8	28348.3	-42.1		
300.0	30501.0	-47.3		
270.0	32770.4	-52.3		
250.0	34404.7	-53.7		
236.8	35555.4	-52.8		
216.0	37502.1	-54.6		
200.0	39137.1	-51.4		
187.4	40532.3	-50.6		
173.8	42146.7	-51.7		
150.0	45282.0	-53.0		
140.6	46646.3	-56.1		
118.2	50273.9	-57.4		
111.2	51549.1	-56.5		
100.0	53760.3	-58.7		
95.2	54778.0	-50.5		
92.2	55440.0	-58.4		
83.2	57550.8	-61.7		

STATION ALTITUDE 3989.00 FEET (SL)  
 25 FEB. 62 0850 HRS (MS)  
 ASCENSION NO. 71

SIGNIFICANT LEVEL DATA  
 0560020071  
 WHITE SANDS  
 TABLE 7 Cont'd

GEODETIC COORDINATES  
 32.40043 LAT DEG  
 106.37033 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES CENTIGRADE	DEWPOINT	
70.0	61092.3	-61.3		
61.0	63095.0	-63.9		
50.0	67942.1	-61.7		
48.0	68774.7	-63.1		
43.2	70042.8	-58.0		
35.6	75000.7	-55.1		
30.6	78176.5	-57.9		
30.0	78592.1	-55.1		
28.2	79905.2	-53.1		
20.0	87261.3	-51.4		
17.8	89773.3	-50.3		

STATION ALTITUDE 3989.00 FEET ASL  
 25 FEB. 62  
 ASCENSION NO. 71

UNPLD AIR DATA  
 056002007A  
 WHITE SANDS

GEOLOGIC COORDINATES  
 32.40043 LAT DEG  
 106.57033 LON DEG

TABLE 8

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	TEMPERATURE DEWPOINT DEGREES	REL. HUM. PERCENT	WIND DENSITY GM/CUBIC METER	SPEED OF WIND KNOTS	DIRECTION OF WIND DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
3989.0	880.0	3.4	-1	78.0	1113.2	640.7	240.0	9.9	1.000278
4000.0	883.6	3.3	-1	79.2	1113.0	648.0	239.5	9.8	1.000278
4500.0	869.1	.9	-9	87.5	1102.0	645.7	211.5	7.5	1.000274
5000.0	852.8	-5	-1.7	91.3	1086.8	644.1	173.7	7.9	1.000270
5500.0	836.7	-1.7	-2.6	93.6	1071.1	642.8	131.2	10.7	1.000265
6000.0	820.8	-1.6	-2.5	94.0	1050.7	642.7	139.1	14.5	1.000260
6500.0	805.3	-1.6	-2.4	94.0	1030.5	642.8	139.6	14.9	1.000256
7000.0	790.1	-1.7	-2.5	94.0	1011.5	642.8	130.3	12.9	1.000251
7500.0	775.1	-1.8	-2.7	94.0	992.8	642.5	162.4	9.9	1.000247
8000.0	760.5	-1.5	-2.4	94.0	972.9	642.9	104.7	6.3	1.000243
8500.0	746.1	-1.8	-1.6	94.0	951.8	643.8	229.2	5.1	1.000240
9000.0	732.0	-1.0	-1.9	93.6	934.4	643.0	203.5	6.9	1.000235
9500.0	718.2	-1.8	-2.8	92.9	919.6	642.6	278.7	9.8	1.000230
10000.0	704.6	-2.6	-3.7	92.2	905.1	641.6	275.0	11.7	1.000226
10500.0	691.2	-3.5	-4.6	91.7	890.7	640.5	272.4	13.7	1.000221
11000.0	677.9	-4.4	-5.6	91.2	876.6	639.4	272.4	14.5	1.000216
11500.0	664.9	-5.3	-6.5	90.6	862.8	638.3	272.4	15.4	1.000212
12000.0	652.1	-6.1	-7.5	90.1	849.1	637.2	274.4	14.8	1.000208
12500.0	639.6	-7.0	-8.4	89.6	835.7	636.1	273.1	13.0	1.000199
13000.0	627.4	-7.9	-9.4	89.1	822.5	635.0	268.9	11.9	1.000192
13500.0	615.2	-8.8	-13.7	67.5	809.6	633.8	202.2	13.2	1.000186
14000.0	603.2	-9.8	-17.5	53.3	797.2	632.5	256.5	15.3	1.000184
14500.0	591.4	-11.1	-17.5	59.1	785.4	631.0	252.5	16.6	1.000181
15000.0	579.8	-12.0	-17.6	63.2	772.7	629.9	249.3	17.2	1.000178
15500.0	568.4	-12.8	-17.7	66.4	759.7	629.0	240.1	17.4	1.000174
16000.0	557.2	-13.7	-18.9	64.5	747.3	627.9	242.7	16.7	1.000171
16500.0	546.1	-14.6	-20.4	61.3	735.2	626.7	230.9	16.0	1.000167
17000.0	535.3	-15.7	-22.4	56.5	723.8	625.3	234.5	16.8	1.000163
17500.0	524.6	-16.9	-24.8	50.3	712.7	623.8	230.3	17.7	1.000160
18000.0	514.0	-18.0	-27.5	43.0	701.3	622.5	227.2	18.8	1.000157
18500.0	503.6	-19.0	-30.4	35.6	690.2	621.2	224.4	19.9	1.000154
19000.0	493.5	-20.0	-29.4	42.6	678.7	620.0	222.8	21.1	1.000152
19500.0	483.4	-21.0	-28.7	49.3	667.5	618.8	222.3	23.4	1.000149
20000.0	473.6	-22.2	-32.9	37.0	657.2	617.2	222.2	24.0	1.000146
20500.0	463.8	-23.3	-35.7	30.6	646.5	615.9	220.4	24.7	1.000143
21000.0	454.3	-24.2	-36.1	32.0	635.6	614.6	219.3	26.6	1.000136
21500.0	444.9	-24.9	-33.9	42.5	624.1	613.9	218.5	27.7	1.000134
22000.0	435.7	-25.9	-37.9	31.1	613.0	612.6	216.4		
22500.0	426.6	-27.1	-38.8	31.7	603.6	611.2			
23000.0	417.7	-28.3	-39.9	34.9	594.0	609.7			

UPPER AIR DATA  
 0560020071  
 WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL  
 25 FEB. 62  
 0850 HRS MST  
 ASCENSION NO. 71

0560020071  
 32.40043 LAT DEG  
 106.37033 LONG DEG

TABLE 8 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CELSIUS	TEMPERATURE DEGREE CELSIUS	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup> METER	SPEED OF SOUND METERS	WIND DIRECTION DEGREES (TN)	WIND SPEED KINOTS	INDEX OF REFRACTION
23500.0	400.9	-29.5	-40.2	34.3	584.5	606.2	219.1	28.3	1.000131
24000.0	400.3	-30.8	-43.5	27.2	575.2	606.6	219.0	28.9	1.000129
24500.0	391.7	-32.1	-46.1	23.2**	566.0	604.9	220.4	27.9	1.000127
25000.0	383.2	-33.4	-48.8	19.3**	556.9	603.2	220.9	26.8	1.000124
25500.0	374.9	-34.8	-51.7	15.5**	547.9	601.5	221.1	26.4	1.000122
26000.0	366.8	-36.1	-55.4	11.6**	539.1	599.8	220.9	26.7	1.000120
26500.0	358.9	-37.5	-59.7	7.7**	530.5	598.1	220.7	26.9	1.000118
27000.0	351.2	-38.8	-66.0	3.8**	522.0	596.4	220.7	28.9	1.000116
27500.0	343.6	-40.1			513.7	594.7	220.0	30.9	1.000114
28000.0	336.0	-41.5			504.8	593.2	221.0	33.1	1.000112
28500.0	328.5	-42.5			496.1	591.7	223.7	35.5	1.000111
29000.0	321.2	-43.7			487.5	590.2	225.5	38.0	1.000109
29500.0	313.9	-44.9			479.1	588.6	228.9	38.9	1.000107
30000.0	306.9	-46.1			470.9	587.0	228.1	39.2	1.000105
30500.0	300.0	-47.3			462.8	585.5	229.1	39.4	1.000103
31000.0	293.1	-48.4			454.4	584.0	228.9	38.6	1.000101
31500.0	286.4	-49.5			446.1	582.6	228.6	37.8	1.000099
32000.0	279.8	-50.6			438.0	581.2	228.3	36.8	1.000098
32500.0	273.4	-51.7			430.1	579.7	228.1	40.9	1.000096
33000.0	267.1	-52.5			421.7	578.1	227.9	42.7	1.000094
33500.0	260.9	-52.9			412.7	576.6	227.8	43.3	1.000092
34000.0	254.8	-53.4			403.9	575.6	227.7	43.9	1.000090
34500.0	248.9	-53.6			394.9	574.2	228.6	44.1	1.000088
35000.0	243.1	-53.2			385.1	572.7	228.6	44.2	1.000086
35500.0	237.4	-52.8			375.4	571.2	228.0	44.3	1.000084
36000.0	231.9	-53.2			367.3	570.0	228.2	45.3	1.000082
36500.0	226.5	-53.7			359.5	571.2	228.4	46.3	1.000080
37000.0	221.2	-54.1			351.8	570.5	228.9	46.9	1.000078
37500.0	216.0	-54.6			344.3	573.9	228.0	47.2	1.000077
38000.0	211.0	-53.6			334.8	577.2	228.1	47.5	1.000075
38500.0	206.1	-52.6			325.6	576.5	228.4	48.1	1.000073
39000.0	201.3	-51.7			316.6	579.8	228.7	48.8	1.000071
39500.0	196.6	-51.2			308.6	580.4	228.3	47.7	1.000069
40000.0	192.1	-50.9			301.1	580.0	228.1	45.7	1.000067
40500.0	187.7	-50.6			293.8	581.2	231.0	44.6	1.000065
41000.0	183.4	-50.9			287.4	580.6	230.0	43.8	1.000064
41500.0	179.1	-51.3			281.2	580.3	230.5	47.1	1.000063
42000.0	175.0	-51.6			275.2	579.9	230.5	51.2	1.000061
42500.0	170.9	-51.9			269.2	579.5	230.4	55.6	1.000060
43000.0	167.0	-52.2			263.3	579.1	230.7	58.4	1.000059

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



UPPER AIR DATA  
 0560020071  
 WHITE SANDS  
 TABLE 8 Cont'd

STATION ALTITUDE 3989.00 FEET MSL  
 25 PER. 82  
 ASLENSION NO. 71

GEOMETRIC ALTITUDE MSL FEET  
 PRESSURE MILLIBARS  
 AIR TEMPERATURE DEGREES  
 WET-BULB TEMPERATURE DEGREES  
 REL. HUM. PERCENT  
 DENSITY GM/CC  
 SOUND SPEED METERS  
 WIND DIRECTION DEGREES  
 WIND SPEED KNOTS  
 INDEX OF REFRACTION

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	WET-BULB TEMPERATURE DEGREES	REL. HUM. PERCENT	DENSITY GM/CC	SOUND SPEED METERS	WIND DIRECTION DEGREES	WIND SPEED KNOTS	INDEX OF REFRACTION
63500.0	62.2	-63.5		103.4	564.0	284.7	284.7	6.1	1.000023
64000.0	60.7	-63.8		101.0	563.0	283.1	283.1	8.4	1.000022
64500.0	59.2	-63.6		98.4	564.0	284.4	284.4	8.8	1.000022
65000.0	57.8	-63.3		95.9	564.4	285.0	285.0	8.3	1.000021
65500.0	56.4	-63.0		93.5	564.7	285.5	285.5	7.9	1.000021
66000.0	55.0	-62.8		91.1	565.1	286.0	286.0	7.5	1.000020
66500.0	53.7	-62.5		88.8	565.4	286.4	286.4	7.7	1.000020
67000.0	52.4	-62.2		86.5	565.0	286.4	286.4	8.4	1.000019
67500.0	51.1	-61.9		84.3	565.2	286.5	286.5	10.0	1.000019
68000.0	49.9	-61.8		82.2	565.4	286.9	286.9	12.0	1.000018
68500.0	48.7	-62.6		80.5	565.2	286.5	286.5	14.0	1.000018
69000.0	47.5	-62.6		78.5	565.3	286.7	286.7	14.5	1.000017
69500.0	46.3	-61.4		76.2	565.9	286.5	286.5	15.5	1.000017
70000.0	45.2	-60.2		74.0	565.5	286.5	286.5	15.6	1.000016
70500.0	44.1	-59.0		71.8	570.0	286.2	286.2	13.2	1.000016
71000.0	43.1	-58.0		69.7	571.5	286.5	286.5	11.0	1.000016
71500.0	42.1	-57.6		68.0	572.0	286.0	286.0	7.4	1.000015
72000.0	41.1	-57.2		66.3	572.4	286.0	286.0	3.5	1.000015
72500.0	40.1	-56.9		64.6	572.9	285.4	285.4	0.0	1.000014
73000.0	39.2	-56.5		63.0	573.4	284.4	284.4	7.3	1.000014
73500.0	38.2	-56.2		61.4	573.9	284.4	284.4	5.9	1.000014
74000.0	37.3	-55.8		59.9	574.3	284.0	284.0	4.5	1.000013
74500.0	36.5	-55.5		58.3	574.6	284.0	284.0	3.5	1.000013
75000.0	35.6	-55.1		56.9	575.3	283.5	283.5	2.6	1.000013
75500.0	34.8	-55.5		55.7	574.7	283.0	283.0	1.7	1.000012
76000.0	33.9	-56.0		54.5	574.1	282.5	282.5	1.8	1.000012
76500.0	33.1	-56.4		53.3	573.5	282.4	282.4	3.2	1.000012
77000.0	32.4	-56.9		52.1	572.9	282.4	282.4	4.8	1.000012
77500.0	31.6	-57.3		51.0	572.4	282.0	282.0	4.2	1.000011
78000.0	30.9	-57.7		49.9	571.8	281.7	281.7	2.8	1.000011
78500.0	30.1	-58.1		48.3	571.3	281.2	281.2	1.6	1.000011
79000.0	29.4	-58.5		46.9	570.1	280.7	280.7	.1	1.000010
79500.0	28.7	-58.7		45.6	577.1	280.7	280.7	1.9	1.000010
80000.0	28.1	-59.1		44.4	577.9	280.0	280.0	3.8	1.000010
80500.0	27.4	-59.0		43.4	576.1	280.5	280.5	4.2	1.000010
81000.0	26.8	-58.8		42.4	576.2	280.7	280.7	4.2	1.000009
81500.0	26.2	-58.7		41.4	575.4	280.1	280.1	4.2	1.000009
82000.0	25.6	-58.6		40.4	575.5	280.0	280.0	5.2	1.000009
82500.0	25.0	-58.5		39.4	575.7	280.5	280.5	6.4	1.000009
83000.0	24.4	-58.4		38.5	575.8	280.5	280.5	7.7	1.000009

STATION ALTITUDE 3989.00 FEET MSL  
 25 FEB. 62 0850 HRS MST  
 ASCENSION NO. 71

UPPER AIR DATA  
 0560020071  
 WHITE SANDS  
 TABLE 8 Cont'd

GEODETIC COORDINATES  
 32.40043 LAT DEG  
 106.37033 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KILOTS	WIND DATA DIRECTION SPEED (KNOTS)	INDEX OF REFRACTION
83500.0	23.8	-52.3		37.0	579.0	310.0	1.000008
84000.0	23.3	-52.2		36.7	579.1	311.9	1.000008
84500.0	22.8	-52.0		35.8	579.3	305.0	1.000008
85000.0	22.2	-51.9		35.0	579.4	297.0	1.000008
85500.0	21.7	-51.8		34.2	579.0	282.0	1.000008
86000.0	21.2	-51.7		33.4	579.8	250.0	1.000007
86500.0	20.7	-51.6		32.6	579.9	230.1	1.000007
87000.0	20.2	-51.5		31.8	580.1	238.0	1.000007
87500.0	19.8	-51.3		31.1	580.3	238.0	1.000007
88000.0	19.3	-51.1		30.3	580.0		1.000007
88500.0	18.9	-50.9		29.6	580.8		1.000007
89000.0	18.5	-50.6		28.9	581.1		1.000006
89500.0	18.0	-50.4		28.2	581.4		1.000006

STATION ALTITUDE 3980.00 FEET .SL  
 25 FEB. 42  
 ORSF. HRS FST  
 ASCENSION NO. 71

MANDATORY LEVELS  
 0560020071  
 WHITE SANDS  
 TABLE 9

GEOGRAPHIC COORDINATES  
 32.40043 LAT DLG  
 106.37033 LON LEG

PRESSURE MILLIBARS	GEO. HEIGHT FEET	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUMID. PERCENT	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS
850.0	5032.	-7.	92.	170.0	0.2
800.0	6688.	-1.6	94.	142.9	14.2
750.0	8356.	-1.0	94.	210.0	5.1
700.0	10162.	-2.9	92.	274.0	12.4
650.0	12079.	-6.3	90.	274.8	14.7
600.0	14121.	-10.2	55.	200.5	13.7
550.0	16303.	-14.3	62.	244.0	17.0
500.0	18652.	-19.4	33.	220.2	19.2
450.0	21190.	-24.4	43.	220.9	24.3
400.0	23976.	-30.8	27.	219.8	25.9
350.0	27035.	-39.0	3.***	220.0	29.1
300.0	30441.	-47.3		229.2	39.4
250.0	34331.	-53.7		227.0	44.1
200.0	39044.	-51.4		223.6	49.0
175.0	41804.	-51.6		238.5	51.0
150.0	45161.	-53.6		245.0	53.3
125.0	48967.	-57.0		240.5	49.3
100.0	53595.	-58.7		246.7	38.3
80.0	58167.	-61.6		249.5	30.3
70.0	60883.	-61.3		250.0	22.8
60.0	64001.	-63.7		240.8	8.6
50.0	67688.	-61.7		299.7	11.0
40.0	72263.	-56.8		10.3	0.1
30.0	78258.	-55.1		110.3	1.5
25.0	82111.	-52.5		315.8	0.3
20.0	86854.	-51.4		208.0	2.3

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

STATION ALTITUDE 4010.40 FEET MSL  
 25 FEB. 82  
 ASCENSION 140. 6

SIGNIFICANT LEVEL DATA  
 0560220000  
 NW 30  
 TABLE 10

GEODETIC COORDINATES  
 32.00497 LAT DEG  
 106.49714 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
884.0	4010.4	4.6	1.3	79.0
859.0	5057.2	2.5	.9	89.0
814.3	6066.6	1.7	.8	94.0
769.7	7680.9	-1.4	-2.0	96.0
712.1	9717.6	-2.1	-2.6	96.0
702.5	10672.8	-1.8	-2.4	96.0
700.0	10166.0	-2.7	-3.2	90.0
627.6	12983.6	-8.5	-9.6	92.0
614.4	13359.9	-9.3	-13.9	69.0
609.7	13719.3	-10.5	-17.1	58.0
592.0	14463.4	-11.6	-16.0	59.0
583.2	14840.3	-12.4	-22.1	44.0
565.7	15603.2	-14.0	-34.9	15.0
539.9	16763.0	-16.3	-38.2	13.0
514.9	17927.5	-20.0	-42.8	11.0
500.0	18643.8	-19.8	-41.6	12.0
442.0	21613.4	-26.5	-42.2	21.0
426.4	22465.4	-27.7	-34.7	51.0
400.0	23964.4	-31.9	-36.2	65.0
382.4	25006.1	-34.1	-37.2	73.0
360.7	26342.2	-37.7	-44.6	48.0
353.9	26773.3	-38.6	-43.2	49.0
326.5	28575.6	-43.7		
313.3	29483.6	-46.2		
300.0	30429.5	-47.8		
260.8	32707.1	-53.3		
250.0	34316.7	-55.1		
230.0	36076.6	-53.6		
209.1	38087.4	-55.2		
200.0	39029.2	-52.4		
194.5	39624.7	-51.3		
189.5	40182.1	-51.5		
179.7	41314.5	-52.9		
170.5	42430.5	-53.4		
161.0	43642.7	-54.9		
150.0	45130.5	-55.9		
124.4	48317.9	-57.2		
125.0	48840.6	-58.6		
117.8	50169.5	-58.8		
114.4	50777.3	-57.9		

STATION ALTITUDE 4010.10 FEET MSL  
 25 FEB. 62 0800 HRS MST  
 ASCENSION NO. 6

SIGNIFICANT LEVEL DATA  
 0560220000  
 10W 30

GEODETIC COORDINATES  
 32.00497 LAT DEG  
 106.49714 LON DEG

TABLE 10 Cont'd

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE	
107.3	52107.3	-58.7		
100.0	53561.6	-60.4		
91.3	55434.5	-60.1		
79.7	58215.9	-62.7		
70.0	60860.4	-62.1		
61.5	63477.3	-65.2		
56.8	65080.0	-63.3		
52.0	66874.4	-62.9		
50.0	67609.7	-64.3		
39.9	72292.2	-58.7		

STATION ALTITUDE 4010.00 FEET MSL  
 25 FEB. 62 0800 HRS MST  
 ASCENSION NO. 6

UPPER AIR DATA  
 0560220000  
 11W 30

GEOMETRIC COORDINATES  
 32.20497 LAT DEG  
 106.49714 LONG DEG

TABLE 11

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup> WATER	SPEED OF SOUND M/SEC	WIND DATA		INCL OF REFRACTION
		AIR DEGREES CENTIGRADE	WIND DIRECTION DEGREES TRUE				SPEED KNOTS		
4010.4	884.0	4.6	1.3	79.0	1105.0	650.2	175.0	5.1	1.000279
4500.0	867.9	3.6	1.1	83.7	1089.3	649.1	164.4	8.7	1.000275
5000.0	851.8	2.6	.9	88.5	1073.0	647.9	160.1	12.5	1.000272
5500.0	835.9	2.1	.9	91.2	1054.7	647.3	157.0	16.4	1.000268
6000.0	820.4	1.8	.8	93.7	1036.5	646.9	157.3	17.3	1.000264
6500.0	805.0	.9	.8	94.5	1020.4	646.8	157.7	16.0	1.000260
7000.0	789.8	-.1	-.8	95.2	1004.9	646.6	156.0	15.7	1.000253
7500.0	775.0	-1.1	-1.6	95.8	989.6	646.5	155.0	15.6	1.000248
8000.0	760.4	-1.5	-2.1	96.0	972.6	646.4	154.0	12.3	1.000244
8500.0	746.0	-1.7	-2.2	96.0	954.6	646.7	144.3	8.6	1.000239
9000.0	731.9	-1.9	-2.4	96.0	937.3	646.5	160.0	4.4	1.000235
9500.0	718.0	-2.0	-2.6	96.0	920.1	646.3	240.0	6.9	1.000231
10000.0	704.5	-1.9	-2.4	96.0	902.1	646.0	260.6	12.6	1.000227
10500.0	691.0	-3.4	-4.0	95.5	890.1	646.7	264.6	16.1	1.000222
11000.0	677.7	-4.4	-5.1	94.8	876.5	639.4	267.1	18.7	1.000217
11500.0	664.7	-5.4	-6.2	94.1	863.1	630.1	267.9	19.7	1.000213
12000.0	652.0	-6.5	-7.4	93.4	850.0	630.8	268.2	20.3	1.000208
12500.0	639.5	-7.5	-8.5	92.7	837.0	635.0	268.7	20.1	1.000204
13000.0	627.2	-8.5	-9.7	91.0	824.3	634.3	264.3	20.1	1.000199
13500.0	615.0	-9.8	-11.1	84.7	812.3	632.0	261.3	20.5	1.000191
14000.0	603.0	-10.9	-12.5	58.4	800.2	631.2	259.4	20.8	1.000187
14500.0	591.1	-11.7	-13.3	57.5	786.9	630.2	258.0	21.2	1.000183
15000.0	579.5	-12.7	-14.1	37.9	774.8	629.9	255.2	20.1	1.000177
15500.0	568.0	-13.8	-15.4	18.9	762.6	627.5	251.5	18.8	1.000172
16000.0	556.7	-14.8	-16.6	14.3	750.5	626.3	244.0	17.7	1.000169
16500.0	545.6	-15.8	-17.4	13.5	738.4	625.0	239.3	17.2	1.000166
17000.0	534.7	-17.1	-18.1	12.6	727.3	623.5	237.9	17.4	1.000163
17500.0	523.9	-18.6	-19.1	11.7	717.1	621.3	236.0	18.1	1.000161
18000.0	513.4	-20.0	-20.7	11.1	706.3	619.9	240.0	19.1	1.000158
18500.0	503.0	-19.8	-21.0	11.8	691.6	620.1	239.0	20.1	1.000155
19000.0	492.7	-20.6	-21.6	13.1	679.5	619.1	238.5	21.0	1.000152
19500.0	482.5	-21.7	-22.1	14.6	668.5	617.8	234.2	21.8	1.000150
20000.0	472.6	-22.9	-23.4	16.1	657.7	616.4	232.0	22.6	1.000147
20500.0	462.9	-24.0	-24.7	17.6	647.1	615.0	230.0	24.2	1.000145
21000.0	453.4	-25.1	-25.8	19.1	636.7	613.0	227.9	25.7	1.000143
21500.0	444.1	-26.2	-26.9	20.7	626.5	612.2	225.1	27.4	1.000140
22000.0	434.9	-27.0	-27.9	34.6	615.4	611.2	218.0	29.2	1.000139
22500.0	425.8	-27.8	-28.7	51.3	604.4	610.3	213.0	30.9	1.000137
23000.0	416.8	-29.2	-30.2	56.0	593.0	608.0	211.3	32.6	1.000134
23500.0	408.0	-30.6	-31.7	60.7	581.6	606.0	209.0	34.1	1.000132

UPPER AIR DATA  
0560220000  
1W 30

STATION ALTITUDE 4010.40 FEET SL  
25 FEB. 62 0800 HRS MSJ  
ASCENSION NO. 6

MULTI. COORDINATES  
32.00497 LAT DEG  
106.49714 LON DEG

TABLE 11 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CE.	DEWPOINT TEMPERATURE DEGREES CE.	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup> METER	SPEED OF SOUND KILOTS	WIND DATA			INDEX OF REFRACTION
							DIR. DEGREES (TN)	SPEED KILOTS	ANGLE OF REFRACTION	
24000.0	599.4	-32.0	-36.3	65.3	570.7	603.1	207.5	35.2	1.000130	
24500.0	590.9	-33.0	-36.7	69.1	566.9	603.0	209.1	36.3	1.000128	
25000.0	582.5	-34.1	-37.2	73.0	557.2	602.4	204.9	37.0	1.000126	
25500.0	574.2	-35.4	-39.8	63.8	548.3	600.7	203.0	37.8	1.000123	
26000.0	566.1	-36.8	-42.6	54.4	539.5	599.0	203.0	38.6	1.000121	
26500.0	558.2	-38.0	-44.8	48.4	530.7	597.4	202.4	39.4	1.000119	
27000.0	550.3	-39.2	-47.0	42.8**	521.7	595.9	202.4	40.2	1.000117	
27500.0	542.6	-40.7	-51.6	29.2**	513.3	594.0	203.1	41.0	1.000115	
28000.0	535.0	-42.1	-57.9	15.6**	505.0	592.2	204.3	41.1	1.000113	
28500.0	527.6	-43.5	-73.6	2.1**	496.9	590.4	205.9	39.7	1.000111	
29000.0	520.3	-44.9			488.7	588.6	210.1	38.6	1.000109	
29500.0	513.1	-46.2			480.6	586.9	213.2	38.0	1.000107	
30000.0	506.0	-47.1			471.5	585.8	220.4	37.7	1.000105	
30500.0	499.0	-48.0			462.6	584.0	223.2	38.7	1.000103	
31000.0	292.1	-49.2			454.4	583.0	223.2	39.8	1.000101	
31500.0	285.4	-50.4			446.3	581.5	223.2	40.6	1.000099	
32000.0	278.8	-51.6			438.4	579.9	224.4	41.3	1.000098	
32500.0	272.4	-52.8			430.7	578.3	222.9	42.5	1.000096	
33000.0	266.1	-53.6			422.3	577.2	221.3	43.9	1.000094	
33500.0	259.9	-54.2			413.4	576.5	219.9	45.5	1.000092	
34000.0	253.8	-54.7			404.0	575.7	218.6	47.3	1.000090	
34500.0	247.8	-54.9			395.7	575.0	218.6	49.2	1.000088	
35000.0	242.0	-54.5			385.7	574.0	219.0	51.3	1.000086	
35500.0	236.4	-54.1			375.9	573.0	219.4	53.2	1.000084	
36000.0	230.8	-53.7			366.4	572.2	219.4	54.7	1.000082	
36500.0	225.4	-53.9			358.2	570.8	219.5	56.2	1.000080	
37000.0	220.2	-54.3			342.9	570.3	220.0	56.6	1.000078	
37500.0	215.0	-54.7			325.9	570.2	222.4	56.9	1.000076	
38000.0	210.0	-55.1			335.5	570.2	222.4	56.0	1.000075	
38500.0	205.1	-54.0			325.9	570.8	223.0	54.5	1.000073	
39000.0	200.3	-52.5			316.2	570.7	227.1	51.8	1.000070	
39500.0	195.6	-51.5			307.5	570.0	226.0	47.9	1.000068	
40000.0	191.1	-51.4			300.3	570.1	230.7	46.2	1.000067	
40500.0	186.7	-51.9			293.9	579.5	232.2	48.1	1.000065	
41000.0	182.4	-52.5			287.9	576.7	233.0	50.0	1.000064	
41500.0	178.1	-53.0			281.9	576.1	234.0	53.1	1.000063	
42000.0	174.0	-53.2			275.6	577.6	235.0	56.2	1.000061	
42500.0	169.9	-53.5			269.5	577.4	236.0	55.6	1.000060	
43000.0	166.0	-54.1			264.0	576.0	236.0	53.7	1.000059	
43500.0	162.1	-54.7			258.5	575.6	236.0	51.8	1.000058	

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

STATION ALTITUDE 4010.40 FEET SL  
 25 FEB. 62 0800 HRS MST  
 ASCENSION NO. 6

UPPER AIR DATA  
 056020000  
 1W 30  
 TABLE 11 Cont'd

GEODETIC COORDINATES  
 32.00497 LAT DEG  
 106.49714 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CEI, TIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND M/SEC	WIND DATA DIRECTION KNOTS	INDEX OF REFRACTION
44000.0	150.3	-55.1		252.9	575.2	237.4	1.000050
44500.0	154.6	-55.5		247.4	574.0	236.2	1.000055
45000.0	150.9	-55.8		241.9	574.3	239.2	1.000054
45500.0	147.4	-56.1		236.5	574.0	240.4	1.000053
46000.0	143.9	-56.3		231.1	573.7	241.0	1.000051
46500.0	140.5	-56.5		225.9	573.5	242.1	1.000050
47000.0	137.2	-56.7		220.7	573.2	242.5	1.000049
47500.0	133.9	-56.9		215.7	572.9	242.5	1.000040
48000.0	130.8	-57.1		210.8	572.7	243.3	1.000047
48500.0	127.7	-57.6		205.4	572.0	243.0	1.000046
49000.0	124.6	-58.6		202.4	570.0	244.9	1.000045
49500.0	121.7	-58.7		197.6	570.5	246.2	1.000044
50000.0	118.8	-58.8		193.0	570.4	247.3	1.000043
50500.0	115.9	-58.3		188.0	571.0	246.4	1.000042
51000.0	113.2	-58.0		183.3	571.4	249.4	1.000041
51500.0	110.5	-58.3		179.2	571.0	246.0	1.000040
52000.0	107.9	-58.6		175.2	570.0	248.2	1.000039
52500.0	105.3	-59.2		171.4	569.9	247.0	1.000038
53000.0	102.8	-59.7		167.7	569.1	244.5	1.000037
53500.0	100.3	-60.3		164.2	568.3	241.0	1.000037
54000.0	97.9	-60.3		160.2	568.3	239.7	1.000036
54500.0	95.5	-60.2		156.3	568.4	238.1	1.000035
55000.0	93.2	-60.2		152.5	568.5	236.4	1.000034
55500.0	91.0	-60.2		148.9	568.0	237.0	1.000033
56000.0	88.8	-60.6		145.6	567.9	238.1	1.000032
56500.0	86.7	-61.1		142.4	567.3	239.7	1.000032
57000.0	84.6	-61.6		139.3	566.7	242.6	1.000031
57500.0	82.5	-62.0		136.2	566.1	240.0	1.000030
58000.0	80.5	-62.5		133.2	565.4	240.2	1.000030
58500.0	78.6	-62.6		130.1	565.2	239.2	1.000029
59000.0	76.7	-62.5		126.8	565.4	232.3	1.000028
59500.0	74.8	-62.4		123.7	565.5	231.3	1.000028
60000.0	73.0	-62.3		120.6	565.7	230.0	1.000027
60500.0	71.2	-62.2		117.7	565.9	246.2	1.000026
61000.0	69.5	-62.3		114.9	565.7	240.0	1.000026
61500.0	67.8	-63.1		112.5	564.0	247.0	1.000025
62000.0	66.2	-63.9		110.1	563.0	247.9	1.000025
62500.0	64.5	-64.7		107.9	562.5	236.5	1.000024
63000.0	63.0	-65.5		105.0	561.5	237.4	1.000024
63500.0	61.4	-66.2		103.4	560.5	277.5	1.000023



STATION ALTITUDE 4010.40 FEET MSL  
 25 FEB. 62  
 0800 HRS MST  
 ASCENSION NO. 6

MANDATORY LEVELS  
 0560220000  
 10W 30

GEODETI. COORDINATES  
 32.00497 LAT DEG  
 106.43714 LON DEG

TABLE 12

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION (DEGREES/10)	SPEED KNOTS
850.0	5054.	2.5	.9	89.	159.8	12.9
800.0	6660.	.6	-2.2	93.	157.7	12.7
750.0	8353.	-1.6	-2.2	90.	141.6	9.9
700.0	10156.	-2.7	-3.2	90.	262.7	14.4
650.0	12073.	-6.6	-7.5	93.	260.0	20.3
600.0	14109.	-11.1	-17.6	59.	259.0	20.9
550.0	16284.	-15.4	-36.9	14.	240.1	17.1
500.0	18619.	-19.8	-41.6	12.	230.3	20.3
450.0	21155.	-25.5	-41.3	20.	226.1	20.3
400.0	23926.	-31.9	-36.2	63.	207.7	33.1
350.0	26976.	-39.3	-47.2	42.4*	202.5	40.2
300.0	30371.	-47.8			222.7	30.5
250.0	34245.	-55.1			218.4	40.4
200.0	38939.	-62.4			227.1	51.7
175.0	41775.	-53.2			235.3	55.3
150.0	45013.	-55.9			239.5	49.0
125.0	48804.	-58.6			244.7	50.4
100.0	53400.	-60.4			241.0	42.7
80.0	57951.	-62.6			248.6	33.0
70.0	60656.	-62.1			248.1	20.1
60.0	63748.	-65.3			263.0	0.3
50.0	67420.	-64.3			293.9	9.3
40.0	71950.	-58.8				

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

STATION ALTITUDE 4051.00 FEET MSL  
 25 FEB. 62 0850 HRS MST  
 ASCENSION NO. 9

SIGNIFICANT LEVEL DATA  
 050003000,  
 JALLEN

GEODETTIC COORDINATES  
 33.16712 LAT LLG  
 106.49511 LONG DEG

TABLE 13

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT PERCENT	RELATIVE HUMIDITY PERCENT
882.7	4051.0	4.2	1.4	62.0
862.0	4072.2	3.9	-0.7	72.0
856.0	5056.1	2.0	-0.2	85.0
814.2	6321.3	-1.0	-1.7	95.0
742.4	8607.5	-2.9	-3.9	93.0
733.2	6033.0	-2.2	-3.3	92.0
700.0	10140.1	-3.9	-0.2	84.0
686.4	10648.8	-4.6	-9.4	69.0
654.8	11708.7	-5.9	-10.6	69.0
646.6	12428.9	-7.0	-13.0	62.0
605.2	13877.3	-10.6	-14.5	73.0
596.2	14256.3	-10.7	-17.7	56.0
578.4	15020.3	-12.4	-21.6	46.0
570.0	15387.3	-13.0	-34.1	15.0
551.1	16230.7	-13.9	-36.8	10.0
500.0	18634.1	-19.5	-43.2	10.0
470.0	20135.2	-23.1	-43.7	13.0
430.6	22223.0	-28.2	-40.7	15.0
400.0	23949.4	-32.0	-50.4	14.0
329.4	28357.2	-43.3		
300.0	30411.0	-47.3		
256.6	33753.4	-55.4		
256.0	34300.8	-55.3		
237.6	35192.5	-55.9		
229.4	36107.8	-54.2		
210.8	37097.3	-53.4		
200.0	39017.9	-51.3		
183.8	40324.0	-51.9		
150.0	45126.1	-55.8		
133.2	47619.3	-55.8		
125.6	48850.9	-56.4		
114.2	50123.8	-55.9		
107.8	52647.6	-58.4		
100.0	53605.4	-59.0		
85.4	56352.9	-61.5		
70.0	60906.7	-63.1		
64.0	62720.2	-64.7		
59.0	64723.6	-60.8		
50.0	67761.5	-62.4		
41.0	71830.3	-59.6		

STATION ALTITUDE 4051.00 FEET SL  
 25 FEB. 52 0850 HRS MST  
 ASCENSION NO. 9

SIGNIFICANT LEVEL DATA  
 05003000,  
 JALLET  
 TABLE 13 Cont'd

GEODETIC COORDINATES  
 33.10712 LAT UG  
 106.49511 LONG UG

PRESSURE, MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUMID. PERCENT
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	
37.4	73755.0	-55.4		
32.6	76637.4	-57.5		
30.0	78385.5	-59.5		
20.0	87021.9	-52.2		
12.6	96986.1	-49.4		
10.0	102055.8	-44.9		

GEODETIC COORDINATES  
33.10/12 LAT DEG  
100.49511 LONG DEG

UPPER AIR DATA  
050003000,  
JALLEN

STATION ALTITUDE 4051.00 FEET MSL  
25 FEB. 62 0650 HRS MST  
ASCENSION 140. 9

TABLE 14

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CELSIUS	TEMPERATURE DEWPOINT DEGREES CELSIUS	REL. HUMID. PERCENT	DENSITY GM/CUBIC METER	WIND SPEED OF SURFACE WINDS KNOTS	WIND DIRECTION DEGREES (TR)	WIND VELOCITY KNOTS	INDEX OF REFRACTION	
4051.0	882.7	4.2	1.4	82.0	1105.5	049.7		90.0	4.1	1.000260
4500.0	867.9	3.1	-0.4	77.7	1091.8	048.3		100.0	4.6	1.000273
5000.0	851.8	2.1	-0.3	84.3	1075.2	047.2		109.0	5.4	1.000270
5500.0	835.8	.9	-0.7	89.5	1059.5	045.8		115.0	6.2	1.000265
6000.0	820.1	-0.2	-1.3	92.5	1044.2	044.4		135.0	7.0	1.000261
6500.0	804.7	-1.1	-1.9	94.8	1028.0	043.0		160.4	8.8	1.000256
7000.0	789.5	-1.6	-2.3	94.4	1010.2	042.0		174.7	10.3	1.000251
7500.0	774.5	-2.0	-2.8	94.0	992.6	042.3		185.0	11.6	1.000247
8000.0	759.8	-2.4	-3.3	93.5	975.3	041.8		192.6	11.1	1.000242
8500.0	745.5	-2.8	-3.8	93.1	958.4	041.3		201.1	10.8	1.000237
9000.0	731.3	-3.3	-4.3	91.6	938.3	041.9		215.9	11.4	1.000233
9500.0	717.4	-3.0	-4.7	89.2	923.0	041.1		229.9	12.8	1.000228
10000.0	703.8	-3.7	-5.9	84.9	908.0	040.2		243.0	15.2	1.000223
10500.0	690.4	-4.4	-8.4	73.4	893.3	039.2		251.0	17.2	1.000216
11000.0	677.1	-5.0	-9.8	69.0	878.4	038.4		257.1	18.6	1.000211
11500.0	664.1	-5.6	-10.4	66.0	863.5	037.7		259.0	19.3	1.000207
12000.0	651.4	-6.3	-11.5	62.2	849.3	036.8		260.0	19.8	1.000203
12500.0	638.8	-7.2	-13.1	62.5	835.0	035.0		263.0	20.4	1.000198
13000.0	626.4	-8.4	-13.5	65.3	823.2	034.3		265.9	21.1	1.000195
13500.0	614.2	-9.7	-14.1	70.1	811.1	032.8		266.0	21.9	1.000192
14000.0	602.3	-10.6	-15.5	67.5	798.3	031.6		265.0	21.7	1.000188
14500.0	590.5	-11.2	-16.9	52.8	784.7	030.8		262.5	21.0	1.000182
15000.0	578.9	-12.4	-21.5	46.3	772.7	029.4		255.4	18.7	1.000176
15500.0	567.4	-13.1	-34.7	14.3	760.0	028.3		245.9	16.6	1.000171
16000.0	555.2	-13.7	-37.4	11.4	748.6	027.0		234.2	14.9	1.000166
16500.0	543.1	-14.5	-39.3	10.0	734.2	025.8		229.4	14.1	1.000165
17000.0	534.2	-15.7	-40.2	10.0	722.7	025.1		230.7	13.6	1.000162
17500.0	523.5	-16.9	-41.2	10.0	711.5	023.7		235.2	14.2	1.000159
18000.0	513.0	-18.0	-42.1	10.0	700.4	022.3		239.4	15.1	1.000157
18500.0	502.7	-19.2	-43.0	10.0	689.5	020.9		236.1	16.2	1.000154
19000.0	492.5	-20.4	-43.3	10.7	678.7	019.4		237.1	17.1	1.000152
19500.0	482.5	-21.6	-43.4	11.7	668.0	017.9		236.5	17.3	1.000150
20000.0	472.6	-22.8	-43.7	12.7	657.5	016.5		232.0	18.7	1.000147
20500.0	462.9	-24.0	-44.2	13.3	647.1	015.0		228.2	20.9	1.000145
21000.0	453.3	-25.2	-44.9	13.8	636.8	013.5		225.2	23.4	1.000142
21500.0	443.9	-26.4	-45.6	14.3	626.7	011.9		223.2	25.4	1.000140
22000.0	434.6	-27.7	-46.3	14.8	616.7	010.4		222.5	26.2	1.000138
22500.0	425.5	-28.8	-47.3	14.8	606.7	009.0		222.0	27.5	1.000136
23000.0	416.5	-29.9	-48.3	14.5	596.5	007.6		221.0	28.9	1.000134
23500.0	407.7	-31.0	-49.4	14.3	586.6	006.2		219.9	29.9	1.000131

UPPER AIR DATA  
 05003000Z  
 JALLEN

STATION ALTITUDE 4051.00 FEET MSL  
 25 FEB 62 0850 HRS MST  
 ASCENSION NO. 9

VELOCITY COORDINATES  
 33.10712 LAT DEG  
 100.49511 LONG DEG

TABLE 14 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup> METER	SPEED OF SOUND M/SEC	WIND DATA		INCLX OF REFRACTION
						WIND DIRECTION DEGREES (TN)	SPEED KNOTS	
24000.0	399.1	-32.1	13.8**	570.8	604.0	210.2	30.8	1.000129
24500.0	390.4	-33.4	12.3**	567.3	603.2	210.0	31.7	1.000127
25000.0	381.9	-34.7	10.7**	557.9	601.0	213.0	32.6	1.000124
25500.0	373.6	-36.0	9.1**	548.7	600.0	210.5	32.9	1.000122
26000.0	365.4	-37.3	7.5**	539.7	598.4	207.2	33.3	1.000120
26500.0	357.5	-38.5	5.9**	530.8	596.7	203.4	34.4	1.000118
27000.0	349.7	-39.8	4.3**	522.1	595.1	200.0	35.5	1.000116
27500.0	342.1	-41.1	2.7**	513.5	593.5	202.0	36.2	1.000114
28000.0	334.6	-42.4	1.1**	505.2	591.8	204.2	36.4	1.000113
28500.0	327.3	-43.6		496.6	590.3	209.2	35.8	1.000111
29000.0	319.9	-44.6		487.5	589.0	214.3	35.8	1.000109
29500.0	312.7	-45.5		478.6	587.8	219.1	36.6	1.000107
30000.0	305.7	-46.5		469.8	586.5	222.3	36.9	1.000105
30500.0	298.8	-47.5		461.3	585.2	225.3	36.6	1.000103
31000.0	291.9	-48.7		453.0	583.6	228.3	36.0	1.000101
31500.0	285.1	-49.9		445.0	582.0	226.1	35.2	1.000099
32000.0	278.5	-51.2		437.1	580.5	220.7	34.9	1.000097
32500.0	272.1	-52.4		429.3	578.9	227.7	34.9	1.000096
33000.0	265.8	-53.6		421.7	577.3	230.0	35.7	1.000094
33500.0	259.7	-54.8		414.2	575.7	231.9	37.0	1.000092
34000.0	253.6	-55.4		406.6	574.9	230.0	38.9	1.000090
34500.0	247.6	-55.4		398.2	574.8	228.0	40.5	1.000088
35000.0	241.8	-55.8		387.5	574.4	224.2	41.9	1.000086
35500.0	236.1	-55.3		377.0	573.0	221.0	44.1	1.000084
36000.0	230.6	-54.4		367.2	570.2	218.2	46.7	1.000082
36500.0	225.2	-54.0		356.0	570.7	217.3	49.7	1.000080
37000.0	219.9	-53.8		349.3	577.0	210.7	52.6	1.000078
37500.0	214.8	-53.6		340.8	577.3	220.2	51.0	1.000076
38000.0	209.8	-53.2		332.3	577.6	223.9	49.5	1.000074
38500.0	204.9	-52.3		323.2	579.0	227.3	47.8	1.000072
39000.0	200.2	-51.3		314.4	580.2	230.4	46.3	1.000070
39500.0	195.5	-51.5		307.3	580.1	229.7	45.2	1.000068
40000.0	191.0	-51.6		300.4	579.8	229.0	43.9	1.000067
40500.0	186.6	-51.8		293.7	579.6	228.0	41.8	1.000065
41000.0	182.3	-52.1		287.2	579.3	229.2	40.7	1.000064
41500.0	178.0	-52.5		281.1	578.7	231.3	43.3	1.000063
42000.0	173.9	-53.0		275.1	578.1	233.4	45.9	1.000061
42500.0	169.8	-53.4		269.2	577.5	233.7	48.6	1.000060
43000.0	165.8	-53.9		263.5	576.9	234.0	51.4	1.000059
43500.0	162.0	-54.3		257.9	576.3	235.2	52.2	1.000057

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

STATION ALTITUDE 4051.00 FEET MSL  
 25 FEB. 82 0850 HRS MST  
 ASCENSION NO. 4

UPPER AIR DATA  
 0560030005  
 JALLEN

GEODETIC COORDINATES  
 33.16712 LAT DEG  
 106.49511 LONG DEG

TABLE 14 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SOUND SPEED KIPTS	DIRECTION DEGREES (TN)	WIND VELOCITY KIPTS	INDEX OF REFRACTION
44000.0	150.2	-54.8		252.4	573.7		230.5	1.000050
44500.0	154.5	-55.2		247.0	573.1		238.1	1.000055
45000.0	150.9	-55.7		241.7	574.5		239.7	1.000054
45500.0	147.4	-55.8		230.2	574.3		240.4	1.000053
46000.0	143.9	-55.8		230.0	574.3		240.3	1.000051
46500.0	140.5	-55.8		225.2	574.3		240.0	1.000050
47000.0	137.2	-55.8		219.9	574.3		241.0	1.000049
47500.0	134.0	-55.8		214.7	574.3		242.0	1.000048
48000.0	130.8	-56.0		209.8	574.1		244.2	1.000047
48500.0	127.7	-56.2		205.1	573.8		245.9	1.000046
49000.0	124.7	-56.3		200.4	573.6		248.0	1.000045
49500.0	121.8	-56.1		195.5	573.9		250.0	1.000044
50000.0	118.9	-55.9		190.7	574.2		252.1	1.000042
50500.0	116.1	-56.3		186.5	573.7		254.1	1.000042
51000.0	113.3	-56.9		182.0	573.0		252.9	1.000041
51500.0	110.7	-57.4		176.7	572.2		251.0	1.000040
52000.0	108.0	-57.9		174.9	571.5		248.0	1.000039
52500.0	105.5	-58.3		171.0	571.0		243.9	1.000038
53000.0	103.0	-58.6		167.2	570.6		241.3	1.000037
53500.0	100.5	-58.9		163.4	570.2		239.0	1.000036
54000.0	98.1	-59.3		159.8	569.7		238.4	1.000036
54500.0	95.7	-59.7		156.3	569.2		237.7	1.000035
55000.0	93.4	-60.1		152.8	568.7		237.1	1.000034
55500.0	91.2	-60.5		149.4	568.2		238.2	1.000033
56000.0	89.0	-61.2		146.1	567.8		239.7	1.000032
56500.0	86.9	-61.6		142.8	567.1		241.5	1.000032
57000.0	84.8	-61.6		139.6	566.7		243.0	1.000031
57500.0	82.7	-61.8		136.3	566.4		243.1	1.000030
58000.0	80.7	-62.0		133.2	566.2		245.0	1.000029
58500.0	78.8	-62.2		130.1	565.9		246.2	1.000029
59000.0	76.9	-62.3		127.0	565.8		245.0	1.000028
59500.0	75.0	-62.5		124.1	565.4		245.4	1.000028
60000.0	73.2	-62.7		121.2	565.1		245.3	1.000027
60500.0	71.4	-62.9		118.3	564.8		245.0	1.000026
61000.0	69.7	-63.2		115.6	564.5		246.1	1.000026
61500.0	68.0	-63.6		113.0	563.9		246.4	1.000025
62000.0	66.3	-64.1		110.5	563.3		251.1	1.000025
62500.0	64.7	-64.5		108.0	562.7		252.9	1.000024
63000.0	63.1	-64.2		105.2	563.2		253.0	1.000023
63500.0	61.6	-63.2		102.2	564.5		254.5	1.000023

STATION ALTITUDE 4051.00 FEET MSL  
 25 FEB. 62 0850 HRS MST  
 ASCENSION NO. 9

UPPER AIR DATA  
 0560030000  
 JALLEH

GLOBULIN COORDINATES  
 33.16712 LAT DEG  
 100.49511 LONG DEG

TABLE 14 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		INDEX OF REFRACTION
						DIRECTION (TN)	SPED KNOTS	
64000.0	60.1	-62.2		99.3	565.0	200.9	19.4	1.000022
64500.0	59.6	-61.2		98.4	567.1	200.0	16.5	1.000021
65000.0	57.2	-60.9		93.9	567.5	207.9	13.4	1.000021
65500.0	55.8	-61.2		91.8	567.2	203.7	9.9	1.000020
66000.0	54.5	-61.5		89.7	568.0	315.0	8.1	1.000020
66500.0	53.2	-61.7		87.6	568.5	329.0	8.5	1.000020
67000.0	51.9	-62.0		85.6	568.1	335.5	9.1	1.000019
67500.0	50.6	-62.3		83.7	568.7	320.5	9.7	1.000019
68000.0	49.4	-62.2		81.0	568.6	333.1	9.6	1.000018
68500.0	48.2	-61.9		79.5	568.2	327.0	9.7	1.000018
69000.0	47.1	-61.5		77.5	568.7	320.7	9.7	1.000017
69500.0	45.9	-61.2		75.5	567.2	328.0	9.7	1.000017
70000.0	44.8	-60.9		73.6	567.0	329.4	9.7	1.000016
70500.0	43.8	-60.5		71.7	568.1	335.5	9.2	1.000016
71000.0	42.7	-60.2		69.9	568.5	328.2	8.7	1.000016
71500.0	41.7	-59.8		68.1	569.0	341.9	8.0	1.000015
72000.0	40.7	-59.2		66.2	569.0	343.4	6.8	1.000015
72500.0	39.7	-58.1		64.4	571.2	345.5	5.7	1.000014
73000.0	38.8	-57.1		62.5	572.7	344.9	4.4	1.000014
73500.0	37.9	-56.0		60.7	574.1	340.1	3.1	1.000014
74000.0	37.0	-55.6		59.2	574.0	328.0	1.9	1.000013
74500.0	36.1	-55.9		57.9	574.2	311.4	1.2	1.000013
75000.0	35.2	-56.3		56.6	573.7	270.5	.9	1.000013
75500.0	34.4	-56.7		55.4	573.2	234.7	1.0	1.000012
76000.0	33.6	-57.0		54.2	572.7	234.7	.7	1.000012
76500.0	32.8	-57.4		53.0	572.2	234.7	.5	1.000012
77000.0	32.0	-56.9		51.6	572.9	220.0	.3	1.000011
77500.0	31.3	-56.0		50.2	574.1	340.9	1.6	1.000011
78000.0	30.6	-55.2		48.8	575.2	334.1	2.9	1.000011
78500.0	29.8	-54.5		47.5	576.1	333.0	3.9	1.000011
79000.0	29.1	-54.3		46.4	576.5	349.0	4.3	1.000010
79500.0	28.5	-54.2		45.3	576.5	340.0	4.7	1.000010
80000.0	27.8	-54.1		44.2	576.0	343.5	4.7	1.000010
80500.0	27.2	-53.9		43.2	576.8	344.0	4.4	1.000010
81000.0	26.5	-53.8		42.1	577.0	344.2	4.0	1.000009
81500.0	25.9	-53.7		41.1	577.2	344.7	4.3	1.000009
82000.0	25.3	-53.5		40.2	577.5	345.5	4.8	1.000009
82500.0	24.7	-53.4		39.2	577.5	340.1	5.3	1.000009
83000.0	24.2	-53.3		38.5	577.7	342.0	5.6	1.000009
83500.0	23.6	-53.1		37.4	577.9	330.4	5.8	1.000008

STATION ALTITUDE 4051.00 FEET SL  
 25 FEB. 42  
 ASCENSION NO. 9

WINDY AIR DATA  
 0300030000  
 JALLIN

GEOMETRIC ALTITUDE 4051.00 FEET SL  
 25 FEB. 42  
 ASCENSION NO. 9

GEOMETRIC ALTITUDE 4051.00 FEET SL  
 25 FEB. 42  
 ASCENSION NO. 9

TABLE 14 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CELSIUS	RELATIVE HUMIDITY PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KIPTS	WIND VELOCITY KIPTS	WIND DIRECTION DEGREES (TR)	WIND VELOCITY KIPTS	INDEX OF REFRACTION
84000.0	22.9	-53.0		30.5	570.0	334.0		6.0	1.000008
84500.0	22.5	-52.9		30.0	570.2	330.0		6.2	1.000008
85000.0	22.0	-52.7		29.6	570.4	327.1		6.4	1.000008
85500.0	21.5	-52.6		29.9	570.0	329.0		6.0	1.000008
86000.0	21.0	-52.5		33.1	570.7	329.5		5.8	1.000007
86500.0	20.5	-52.3		32.3	570.9	329.0		4.8	1.000007
87000.0	20.0	-52.2		31.6	573.1	329.7		3.9	1.000007
87500.0	19.6	-52.1		30.8	579.3	320.2		2.9	1.000007
88000.0	19.1	-51.9		30.1	579.4	320.1		2.0	1.000007
88500.0	18.7	-51.8		29.4	579.0	285.1		1.4	1.000007
89000.0	18.2	-51.6		28.0	579.0	241.7		1.7	1.000006
89500.0	17.8	-51.5		28.0	580.0	255.7		1.5	1.000006
90000.0	17.4	-51.4		27.4	580.2	255.7		1.2	1.000006
90500.0	17.0	-51.2		26.7	580.4	255.7		.9	1.000006
91000.0	16.6	-51.1		26.1	580.5	245.1		.6	1.000006
91500.0	16.2	-50.9		25.5	580.7	240.0		.9	1.000006
92000.0	15.9	-50.8		24.9	580.9	207.9		1.3	1.000006
92500.0	15.5	-50.7		24.3	581.1	255.2		1.7	1.000005
93000.0	15.2	-50.5		23.7	581.3	265.1		1.7	1.000005
93500.0	14.8	-50.4		23.2	581.5	265.7		1.7	1.000005
94000.0	14.5	-50.2		22.6	581.0	240.2		1.9	1.000005
94500.0	14.1	-50.1		22.1	581.8	234.0		2.4	1.000005
95000.0	13.8	-50.0		21.0	582.0	223.1		4.5	1.000005
95500.0	13.5	-49.8		21.1	582.2	214.2		6.6	1.000005
96000.0	13.2	-49.7		20.6	582.4	217.2		6.6	1.000005
96500.0	12.9	-49.5		20.1	582.0	218.1		7.7	1.000004
97000.0	12.6	-49.4		19.6	582.3	220.7		3.6	1.000004
97500.0	12.3	-48.9		19.1	583.3	241.5		1.3	1.000004
98000.0	12.0	-48.5		16.7	583.9	28.1		5.2	1.000004
98500.0	11.8	-48.1		13.2	584.5	223.0		4.9	1.000004
99000.0	11.5	-47.6		17.8	585.1	280.1		8.7	1.000004
99500.0	11.2	-47.2		17.3	585.6	273.7		13.8	1.000004
100000.0	11.0	-46.7		16.5	586.2				1.000004
100500.0	10.7	-46.3		16.5	586.8				1.000004
101000.0	10.5	-45.8		16.1	587.4				1.000004
101500.0	10.3	-45.4		13.7	587.9				1.000003
102000.0	10.0	-44.9		13.3	588.5				1.000003

STATION ALTITUDE 4051.00 FEET ASL  
 25 FEB. 62 0850 MRS MSJ  
 ASCENSION NO. 9

MANDATORY LEVELS  
 0560000000  
 JALLEM  
 TABLE 15

VELOCITY CORRECTIONS  
 33.10/12 LAT DEG  
 106.49511 LONG DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		HUMIDITY		WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	PERCENT	WIND DIRECTION DEGREES(TN)	WIND SPEED KNOTS	
850.0	5053.	2.0	7.2	85.	110.7	5.5	
800.0	6649.	-1.3	-2.0	75.	165.0	9.6	
750.0	8335.	-2.7	-3.0	75.	197.7	10.8	
700.0	10131.	-3.0	-6.2	64.	246.4	10.0	
650.0	12043.	-6.4	-11.0	60.	201.1	13.9	
600.0	14080.	-10.7	-16.5	62.	204.5	21.6	
550.0	16261.	-14.0	-30.9	10.	220.6	14.4	
500.0	18609.	-19.5	-43.2	10.	237.9	10.5	
450.0	21147.	-25.6	-45.2	14.	224.5	24.3	
400.0	23912.	-32.0	-50.4	14.	210.4	30.7	
350.0	26956.	-39.4	-65.7	4.4*	200.6	35.5	
300.0	30354.	-47.3			224.1	30.7	
250.0	34230.	-55.3			229.7	34.9	
200.0	38920.	-51.2			250.4	40.3	
175.0	41768.	-52.8			253.0	45.1	
150.0	45009.	-55.8			240.1	52.8	
125.0	48815.	-56.4			247.7	51.2	
100.0	53445.	-59.0			239.4	40.4	
80.0	58001.	-62.0			245.8	37.0	
70.0	60703.	-63.1			245.8	26.8	
60.0	63806.	-62.1			250.9	14.4	
50.0	67513.	-62.4			330.0	9.7	
40.0	72067.	-58.5			344.0	6.1	
30.0	78058.	-54.5			354.0	5.8	
25.0	81870.	-53.5			345.0	5.0	
20.0	86623.	-52.2			339.7	3.9	
15.0	92755.	-50.6			278.0	1.7	
10.0	101514.	-44.9					

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

**L MED**

**-88**