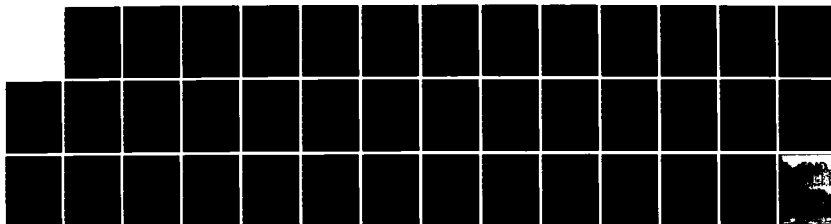


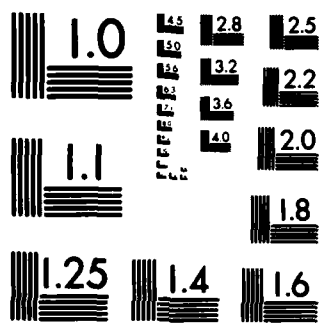
AD-A144 769 12835AT LANCE MISSILE NUMBER 5340 ROUND NUMBER 399 DCL 1/1

19 JUNE 1984(U) ARMY ELECTRONICS RESEARCH AND
DEVELOPMENT COMMAND WSMR NM ATM. D C KELLER JUN 84

UNCLASSIFIED ERADCOM/ASL-DR-1347

F/G 13/13 NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

12

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July 84

DR-1347

AD

AD-A144 769

METEOROLOGICAL DATA REPORT

12805AT L-10E
Mission Number 1346
Run Number 09 LCH
Altitude 1000

by

USAFD O. M. 100
Air Force Report Coordinator
Mission Number (505) 079-9566
Altitude Number 349-0368

RECEIVED 10 SEP 1984 10 10
AIR FORCE REPORT COORDINATOR

ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

84 08 20 177

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1. REPORT NUMBER DR-1347	2. GOVT ACCESSION NO. ADA144769	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 12835 AT LANCE Missile Number 5340 Round Number 399 DCL		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 Jun 84
		13. NUMBER OF PAGES
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research and Development Cmd Adelphi, MD 20783		15. SECURITY CLASS. (of this report) UNCLASSIFIED
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)		
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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 12835AT Lance, Missile Number 5340, Round Number 399 DCL, are presented in tabular form.		

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INTRODUCTION

12835A/T LANCE, Missile Number 5340, Round Number 399 DCL, was launched from LER-4, White Sands Missile Range (WSMR). New Mexico, at 1020 MDT, 19 June 1984. The scheduled launch time was 1020 MDT.

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

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC-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 one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE

Not available due to radar inoperative

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

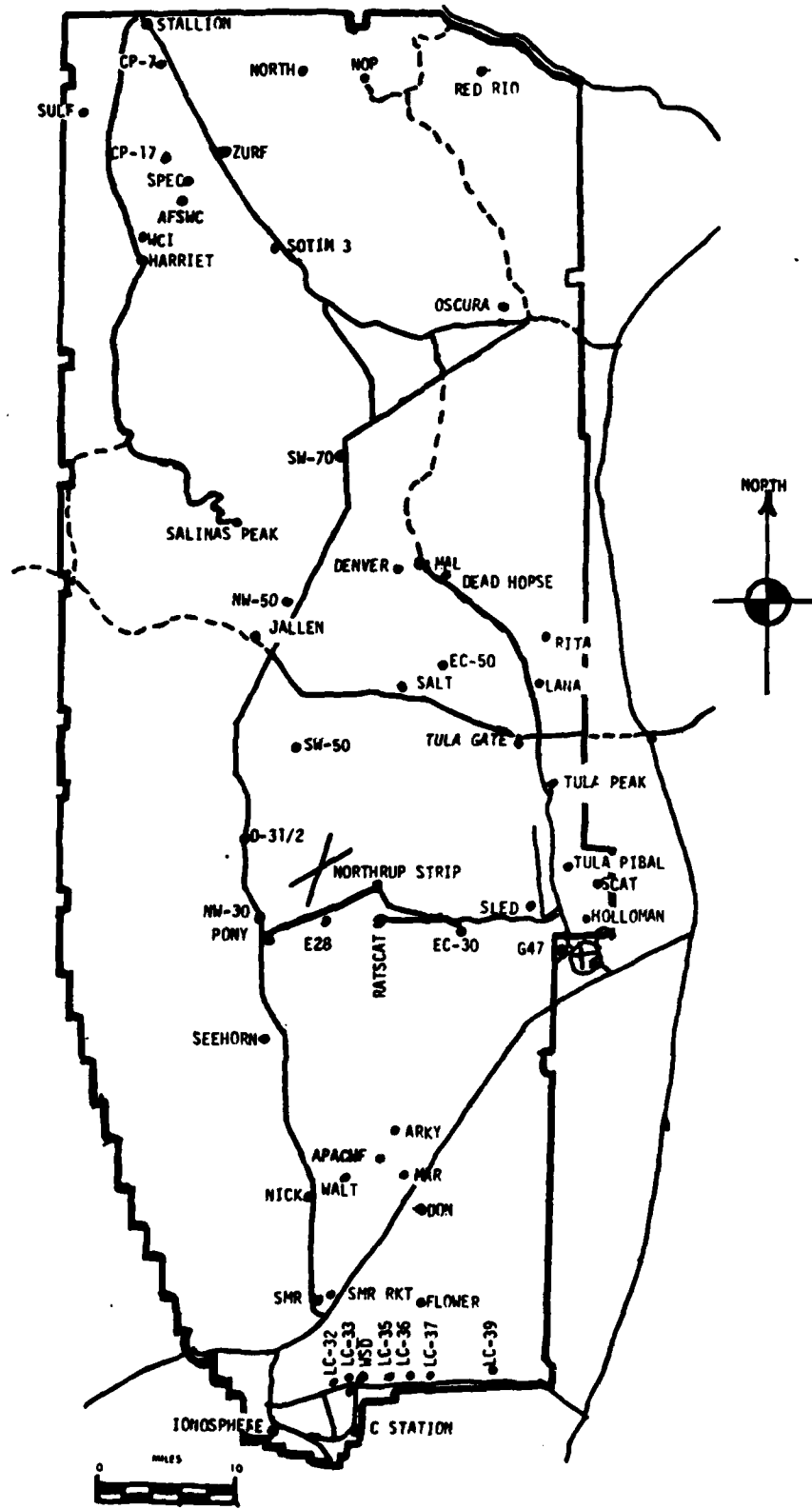
SITE AND TIME

JALLEN	0550 MDT
WSD	0650 MDT
WSD	0958 MDT
JALLEN	1010 MDT

Accession For	
NTIS GRA&I	☒
DTIC TAB	☐
Unannounced	☐
Justification	
By _____	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	



WSMR METEOROLOGICAL SITES



**LC-33 METEOROLOGICAL TOWER
ANEMOMETER MEASURED WIND DATA**

WSTM COORDINATES X=484,982.64 Y=185,957.73 H=3983.00(BASE)

TABLE NO. 2

DATE 19 June 1984 1020 M D T
DAY MONTH YEAR TIME

LEVEL #1 12 FT AGL			LEVEL #2 62 FT AGL		
T-TIME(SEC)	DIR(DEG)	SPEED(KTS)	T-TIME(SEC)	DIR(DEG)	SPEED(KTS)
T-30	015	03	T-30	*026	03
T-20	003	03	T-20	*026	02
T-10	013	03	T-10	*026	02
T- 0(1st T)		CALM	T- 0(1st T)	*026	04
T+10		CALM	T+10	*026	02
T+20			T+20		
T+30			T+30		
T+40			T+40		
T+50			T+50		
T+60			T+60		
LEVEL #3 102 FT AGL			LEVEL #4 202 FT AGL		
T-TIME(SEC)	DIR(DEG)	SPEED(KTS)	T-TIME(SEC)	DIR(DEG)	SPEED(KTS)
T-30	041	03	T-30	051	03
T-20	041	04	T-20	060	03
T-10	041	02	T-10	045	02
T- 0(1st T)	041	02	T- 0(1st T)	042	01
T+10		CALM	T+10	055	01
T+20			T+20		
T+30			T+30		
T+40			T+40		
T+50			T+50		
T+60			T+60		

* Doubtfull Data on Dir. of Lev. 2

TABLE 3

COMPUTER MET MESSAGE DATA

19 June 1984

WSD 0650 MDT

METCM1324064

191280122881

00480003 29230881
 01379005 29210871
 02237009 29020845
 03192016 28810806
 04138015 28590760
 05102016 28310716
 06080004 28040674
 07005009 27750634
 08008009 27460596
 09452008 27270560
 10432008 26910526
 11391008 26660493
 12380012 26110448
 13352019 25430392
 14384031 24670342
 15385046 23970298
 16389051 23380258
 17398054 22640222
 18419052 21890191
 19415047 21250163
 20431024 20910139
 21423009 20420118
 22333011 20240100
 23275005 20360084
 24180009 20660071
 25191015 21060061
 26140017 21390052

WSD 0958 MDT

METCM1324064

191600122882

00000000 29550882
 01631002 29340872
 02020004 29200847
 03147008 28860808
 04163008 28610761
 05170006 28380717
 06167009 28040675
 07214010 27740635
 08297002 27540597
 09406004 27280561
 10451009 27020527
 11425011 26680495
 12365014 26120449
 13376024 25470393
 14375041 24770343
 15395043 24110299
 16391053 23450259
 17403052 22710223
 18413051 21970192
 19424045 21370164
 20416023 20940140
 21369014 20440119
 22353015 20270100
 23276009 20330085
 24168017 20760072
 25131011 21060061
 26182021 21450052

JALLEN 1010 MDT

METCM1332065

191620124879

00000000 29660879
 01156003 29370869
 02098002 29150844
 03602005 28970805
 04024007 28710759
 05104008 28430715
 06127014 28110673
 07126013 27740634
 08076007 27370596
 09203004 27070559
 10336008 26850525
 11411010 26560493
 12363017 26050447
 13361023 25310391
 14375029 24580342
 15395044 23940297
 16385060 23280257
 17395063 22640222
 18410065 21910190
 19418049 21330163
 20417028 20900138
 21357015 20410117
 22348017 20210099
 23269005 20310084
 24165012 20590071
 25151014 21010060
 26156022 21280052

STATION ALTITUDE 4051.00 FEET "SL
19 JJMF 94
ASCENSION NO. 53 0550 MDT

SIGNIFICANT LEVEL DATA

1710300068
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
126.4951- LON DEG

TABLE 4

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	
878.3	4051.0	15.5	14.9	93.0
875.2	4150.2	15.4	15.3	93.0
860.2	4635.2	15.2	15.5	95.0
850.0	4949.6	15.9	15.1	95.0
833.2	5527.2	15.1	13.3	89.0
819.3	5935.9	16.2	13.2	94.0
793.0	5933.3	13.3	10.1	81.0
788.1	7075.3	13.9	9.3	74.0
758.2	8145.3	12.8	7.4	72.0
753.2	8328.3	11.9	5.4	59.0
747.3	8545.2	13.6	7.2	55.0
742.4	8728.2	12.5	6.3	57.0
722.3	9455.1	11.9	3.4	56.0
700.0	10345.2	9.6	2.2	50.0
593.6	10503.5	9.7	1.5	61.0
566.8	11744.4	5.8	.2	67.0
516.9	13329.1	.9	-2.3	79.0
400.4	14458.9	.2	-3.0	79.0
587.5	15031.9	.0	-4.5	71.0
582.4	15251.2	.0	-4.3	73.0
555.4	16459.3	-3.2	-5.7	93.0
547.6	15374.7	-3.3	-5.9	82.0
539.7	17286.6	-6.2	-6.5	97.0
527.1	17855.5	-5.1	-5.5	97.0
513.3	18525.5	-5.3	-9.3	75.0
510.4	13535.6	-5.3	-9.2	33.0
500.0	19224.9	-7.5	-3.7	92.0
494.0	19573.9	-9.5	-9.0	97.0
481.0	20113.5	-9.8	-10.2	97.0
449.0	21955.7	-11.9	-12.3	97.0
433.4	22843.3	-14.9	-15.3	97.0
400.0	24278.0	-15.5	-18.9	97.0
385.3	25713.0	-20.3	-20.5	93.0
351.4	25922.4	-21.1	-22.9	95.0
370.2	26132.7	-22.2	-27.1	94.0
371.4	25534.7	-23.2	-31.1	68.0
360.4	27357.4	-24.6	-30.4	58.0
346.6	28437.3	-23.3	-35.5	59.0
337.5	28914.4	-29.5	-39.1	39.0
323.5	29227.5	-31.3	-45.9	23.0

STATION ALTITUDE 4351.00 FEET MSL
19 JUNE 84
ASCENSION NO. 58 0550 MDT

SIGNIFICANT LEVEL DATA
1710000058
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 4 Cont'd

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
319.5	37196.5	-32.5	-47.3
300.0	31666.3	-35.0	-50.3
291.4	32377.3	-37.6	-51.3
281.5	31083.2	-38.4	-54.2
275.6	31569.9	-39.3	-55.4
257.5	35287.5	-41.1	
250.0	35755.5	-42.7	
226.2	38150.5	-47.8	
218.8	38690.1	-48.4	
203.0	40510.5	-52.5	
193.5	42413.7	-57.0	
175.5	43222.0	-58.5	
167.8	45154.0	-50.8	
150.0	45578.0	-51.3	
134.4	48802.5	-65.5	
123.2	50546.9	-58.5	
116.0	51725.0	-68.6	
112.2	52390.9	-70.1	
100.0	54633.5	-71.2	
95.2	55590.7	-72.4	
90.3	55528.6	-67.6	
81.2	59725.3	-70.1	
72.0	61173.5	-57.3	
70.0	51657.9	-54.7	
50.0	58567.5	-58.9	
41.5	72386.0	-56.4	
39.9	73258.5	-55.9	
30.0	79275.2	-53.7	

STATION ALTITUDE 4051.00 FEET MSL
19 JUNE 84
ASCENSION NO. 65

UPPER AIR DATA
171000Z06R
JALLEN

GEOMETRIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 5

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA	INDEX OF REFRACTION
						DIRECTION DEGREES(TVD)	SPEED KNOTS
4051.0	875.3	15.5	70.0	1049.5	555.5	255.5	1.000312
4500.0	864.4	15.3	75.2	1032.6	555.3	255.5	1.000313
5000.0	849.1	15.0	74.7	1015.7	564.8	255.5	1.000306
5500.0	834.0	15.1	79.3	1000.8	553.3	255.5	1.000293
6000.0	819.2	14.2	74.0	984.2	552.7	265.7	1.000290
6500.0	804.6	13.7	76.3	970.3	551.9	279.8	1.000279
7000.0	790.2	13.6	77.1	954.6	551.7	31.5	1.000268
7500.0	776.1	13.5	73.2	938.3	551.1	91.5	1.000261
8000.0	762.2	12.5	72.3	924.7	550.2	90.3	1.000255
8500.0	748.5	13.2	55.8	905.9	551.0	82.5	1.000248
9000.0	735.1	12.3	56.5	891.5	559.6	76.2	1.000237
9500.0	721.9	11.8	56.2	878.9	559.0	70.1	1.000232
10000.0	706.9	10.5	58.4	867.1	557.6	65.7	1.000228
10500.0	695.0	9.1	50.5	855.9	555.7	50.2	1.000224
11000.0	683.3	7.7	53.1	844.5	556.1	55.8	1.000220
11500.0	670.8	6.4	55.7	832.9	552.6	50.6	1.000216
12000.0	658.5	5.2	58.5	821.2	551.1	45.7	1.000213
12500.0	646.3	4.0	71.6	809.5	549.7	42.8	1.000209
13000.0	634.3	2.8	74.2	797.3	548.3	40.3	1.000205
13500.0	622.5	1.7	77.1	785.5	545.9	37.5	1.000202
14000.0	610.9	.7	79.0	774.7	545.7	33.0	1.000193
14500.0	599.5	.2	78.4	761.7	545.1	29.0	1.000194
15000.0	588.2	.0	71.6	748.0	544.8	22.0	1.000189
15500.0	577.1	-0.6	72.5	735.7	544.0	15.3	1.000186
16000.0	566.2	-2.0	78.0	725.4	542.4	9.3	1.000183
16500.0	555.5	-3.2	82.9	715.0	540.9	5.8	1.000180
17000.0	545.0	-3.5	36.5	702.3	540.5	59.5	1.000178
17500.0	534.6	-4.5	77.0	691.2	539.5	335.1	1.000176
18000.0	524.4	-5.3	92.7	680.2	538.4	224.5	1.000172
18500.0	514.3	-5.3	76.8	669.3	537.1	225.0	1.000165
19000.0	504.4	-7.3	38.2	659.3	535.0	230.2	1.000164
19500.0	494.7	-8.5	76.5	649.5	534.5	234.2	1.000162
20000.0	485.0	-9.4	97.0	639.3	533.4	235.4	1.000153
20500.0	475.6	-10.1	97.0	628.5	532.5	232.5	1.000155
21000.0	466.3	-10.7	97.0	617.7	531.7	230.2	1.000152
21500.0	457.2	-11.3	97.0	607.1	531.0	231.2	1.000149
22000.0	448.2	-12.0	97.0	596.8	530.1	232.7	1.000145
22500.0	439.4	-13.7	97.0	589.0	528.0	231.3	1.000143
23000.0	430.7	-15.4	97.0	580.7	526.2	222.3	1.000140
23500.0	422.1	-15.1	97.0	571.1	525.1	210.3	1.000137

STATION ALTITUDE 4051.00 FEET MSL
14 JUNE 84
ASCENSION NO. 58

UPPER AIR DATA
171000Z05P
JALLEN

GEOMETRIC ALTITUDE 4051.00 FEET MSL
14 JUNE 84
ASCENSION NO. 58

GEOMETRIC COORDINATES
33.15712 LAT DEG
106.49511 LON DEG

TABLE 5 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ MFTER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
2400.0	413.6	-17.0	97.0	551.7	524.0	195.2	21.1	1.000174
2450.0	405.3	-17.9	97.0	552.5	522.8	184.6	22.4	1.000111
2500.0	397.2	-18.6	97.2	547.4	521.5	179.1	24.2	1.000129
2550.0	389.2	-19.9	97.8	534.5	520.6	180.4	25.0	1.000125
2600.0	381.3	-21.2	93.9	526.5	518.7	183.6	27.1	1.000125
2650.0	373.5	-22.9	52.3	510.7	616.4	189.1	27.2	1.000119
2700.0	365.8	-23.9	53.1	511.0	515.2	191.4	27.3	1.000117
2750.0	358.2	-25.1	56.8	502.9	513.7	194.4	27.3	1.000115
2800.0	350.8	-26.8	52.5	495.9	611.6	197.3	28.6	1.000113
2850.0	343.5	-28.5	67.7	488.9	529.5	200.2	30.5	1.000111
2900.0	336.3	-29.6	37.6	481.3	607.8	204.3	34.7	1.000105
2950.0	329.2	-30.9	24.5	473.3	505.6	207.1	37.8	1.000105
3000.0	322.2	-32.1	21.9	465.5	534.9	209.1	39.0	1.000104
3050.0	315.3	-33.3	20.2	457.9	603.3	208.5	38.1	1.000102
3100.0	308.5	-34.5	20.6	450.3	501.9	206.5	35.0	1.000101
3150.0	301.9	-35.7	20.9	442.3	500.6	206.4	35.4	1.000099
3200.0	295.4	-36.9	21.5	435.4	598.9	207.2	37.2	1.000097
3250.0	289.9	-37.8	20.8	427.7	597.7	211.5	39.5	1.000095
3300.0	282.6	-38.3	17.5	410.2	597.0	214.9	40.6	1.000094
3350.0	276.5	-39.2	16.1	411.5	595.9	217.2	43.8	1.000092
3400.0	270.4	-39.8	11.5**	403.5	595.1	217.9	65.6	1.000090
3450.0	264.4	-40.4	6.2**	395.8	594.3	217.7	49.3	1.000088
3500.0	258.6	-41.0	.9**	388.1	593.5	218.0	52.2	1.000085
3550.0	252.9	-42.1		381.3	592.2	218.9	55.3	1.000085
3600.0	247.2	-43.2		374.5	590.7	221.1	59.0	1.000083
3650.0	241.7	-44.3		367.9	589.4	222.5	60.4	1.000082
3700.0	236.2	-45.3		361.3	588.0	223.5	60.6	1.000080
3750.0	230.9	-45.4		354.8	585.6	224.2	52.7	1.000079
3800.0	225.7	-47.5		348.5	585.2	224.8	56.9	1.000078
3850.0	220.6	-48.2		341.7	536.3	225.7	67.4	1.000075
3900.0	215.6	-49.1		335.2	583.1	227.3	58.9	1.000075
3950.0	210.6	-50.2		329.1	581.7	229.2	55.7	1.000073
4000.0	205.8	-51.3		323.1	580.3	230.9	65.1	1.000072
4050.0	201.0	-52.4		317.2	578.9	231.8	64.3	1.000071
4100.0	196.3	-53.6		311.5	577.3	231.8	64.0	1.000069
4150.0	191.7	-54.8		305.9	575.7	231.0	56.3	1.000068
4200.0	187.2	-55.0		300.4	574.1	230.9	56.1	1.000067
4250.0	182.6	-57.2		294.9	572.5	231.6	53.5	1.000065
4300.0	178.5	-59.1		289.1	571.3	231.9	61.5	1.000064
4350.0	174.2	-53.8		283.2	570.3	232.4	59.0	1.000063

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

STATION ALTITUDE 4001.00 FEET MSL
19 JUNE 84
ASCENSION NO. 58 0550 MDT

UPPER AIR DATA
171000Z
JALLEN

SYNTHETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

TABLE 5 Cont'd

GLOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
4400.0	173.1	-59.4		277.2	569.5	233.0	55.6	1.000062
4450.0	166.0	-60.0		271.3	569.7	235.1	51.4	1.000060
4500.0	162.0	-60.0		255.5	567.9	239.3	45.4	1.000059
4550.0	158.1	-60.9		259.5	567.5	244.0	37.3	1.000058
4600.0	154.3	-61.1		253.5	567.3	245.5	27.8	1.000055
4650.0	150.6	-61.3		247.5	567.1	247.3	19.4	1.000055
4700.0	146.9	-62.1		242.5	565.0	247.1	15.6	1.000054
4750.0	143.3	-63.0		237.5	564.7	249.6	14.9	1.000053
4800.0	139.8	-64.0		232.9	563.4	252.1	14.8	1.000052
4850.0	136.4	-64.9		228.2	562.2	250.1	14.9	1.000051
4900.0	133.1	-65.9		223.5	560.9	249.5	14.9	1.000050
4950.0	129.8	-65.7		219.0	559.7	251.0	13.9	1.000049
5000.0	126.6	-67.6		214.5	559.5	252.9	12.8	1.000049
5050.0	123.4	-68.5		210.1	557.3	266.5	13.9	1.000047
5100.0	120.3	-69.6		204.9	557.2	238.6	9.0	1.000045
5150.0	117.3	-68.6		199.8	557.2	230.0	5.8	1.000044
5200.0	114.4	-69.2		195.4	555.3	219.0	5.3	1.000044
5250.0	111.5	-70.2		191.6	555.1	211.6	6.5	1.000043
5300.0	108.7	-70.4		186.3	554.7	201.2	6.9	1.000042
5350.0	106.0	-70.5		182.3	554.6	196.2	6.4	1.000041
5400.0	103.3	-70.9		177.9	554.1	189.7	5.9	1.000040
5450.0	100.7	-71.1		173.5	553.7	185.3	5.9	1.000039
5500.0	98.1	-71.7		169.7	553.0	182.4	5.6	1.000038
5550.0	95.6	-72.3		165.9	552.1	180.4	5.2	1.000037
5600.0	93.2	-70.5		160.3	556.6	179.7	5.7	1.000035
5650.0	90.9	-69.2		154.5	557.7	175.9	7.4	1.000034
5700.0	88.5	-68.0		150.5	557.7	171.7	7.6	1.000034
5750.0	86.4	-63.5		147.2	557.1	157.5	7.9	1.000033
5800.0	84.2	-69.2		143.9	555.3	169.2	8.1	1.000032
5850.0	82.1	-69.8		140.7	555.5	171.1	9.4	1.000031
5900.0	80.1	-69.8		137.2	555.5	152.0	7.7	1.000031
5950.0	78.1	-69.2		133.4	555.6	125.5	3.1	1.000030
6000.0	75.1	-68.6		129.7	557.2	108.9	9.0	1.000029
6050.0	72.4	-68.0		126.1	559.0	95.7	13.1	1.000028
6100.0	70.6	-67.4		122.5	559.3	95.1	9.7	1.000027
6150.0	68.9	-65.5		118.4	551.6	108.5	3.1	1.000025
6200.0	63.9	-64.4		114.9	552.8	116.4	8.4	1.000025
6250.0	57.2	-64.0		111.9	563.6	114.5	10.6	1.000025
6300.0	55.5	-63.6		109.0	564.0	112.0	12.5	1.000024
6350.0	54.0	-63.2		106.2	564.5	107.2	16.8	1.000024

STATION ALTITUDE 4001.0 FEET MSL
19 JUNE 84
ASCENSION NO. 55 0550 MDT

UPPER AIR DATA
171000Z
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 5 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
6400.0	62.5	-62.7		102.4	565.1	104.0	15.0	1.000013
6450.0	62.9	-62.3		100.7	555.7	102.8	15.5	1.000022
6500.0	63.5	-61.9		98.1	555.2	101.5	15.1	1.000022
6550.0	64.0	-61.5		95.5	566.8	101.7	16.4	1.000021
6600.0	64.6	-61.0		92.0	547.4	102.0	15.8	1.000021
6650.0	65.3	-60.5		90.5	557.9	101.2	15.9	1.000020
6700.0	65.9	-60.2		88.2	558.5	100.3	21.6	1.000020
6750.0	66.6	-59.8		85.9	569.1	99.5	22.5	1.000019
6800.0	67.4	-59.4		83.7	559.5	98.7	22.5	1.000019
6850.0	68.1	-58.9		81.5	570.2	95.7	20.9	1.000018
6900.0	68.9	-58.6		79.4	570.6	92.2	17.7	1.000018
6950.0	69.8	-58.3		77.4	571.1	87.4	15.1	1.000017
7000.0	70.6	-58.0		75.5	571.5	85.5	14.0	1.000017
7050.0	71.5	-57.6		73.5	571.9	83.4	13.0	1.000015
7100.0	72.4	-57.3		71.7	572.4	83.4	13.3	1.000015
7150.0	73.4	-57.0		69.9	572.8	83.3	15.6	1.000015
7200.0	74.4	-56.7		68.2	573.2	80.0	15.0	1.000015
7250.0	75.4	-56.5		66.5	573.5	75.5	15.2	1.000015
7300.0	76.4	-56.2		65.0	573.1	75.1	15.2	1.000016
7350.0	77.4	-55.8		63.5	573.1	79.5	15.0	1.000016
7400.0	78.5	-56.5		61.9	573.6	83.5	15.9	1.000016
7450.0	79.6	-56.2		60.4	573.8	81.1	16.3	1.000013
7500.0	80.7	-56.0		58.9	574.1	79.8	15.7	1.000013
7550.0	81.8	-55.7		57.5	574.5	73.8	18.0	1.000013
7600.0	82.9	-55.4		56.1	574.8	68.8	19.7	1.000012
7650.0	84.0	-55.2		54.7	575.2	68.2	20.5	1.000012
7700.0	85.1	-54.9		53.5	575.5	71.9	20.4	1.000012
7750.0	86.2	-54.6		52.0	575.9	75.7	20.3	1.000012
7800.0	87.3	-54.4		50.7	575.2			1.000011
7850.0	88.4	-54.1		49.5	575.5			1.000011
7900.0	89.5	-53.8		48.3	576.9			1.000011

STATION ALTITUDE 4051.00 FEET MSL
19 JUNE 94
ASCENSION NO. 53

MANDATORY LEVELS
1°10'30"68
JALLEN

TABLE 6

GEODETIC COORDINATES
33.16712 LAT DEG
136.49511 LONG DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT DEGREES	PERCENT	PERCENT	DIRECTION DEGREES(TV)	SPEED KNOTS
850.0	4265.	15.9	15.1	95.		255.5	3.0
800.0	6655.	13.5	11.0	85.		315.8	.4
750.0	8439.	12.8	5.8	57.		33.1	18.5
700.0	10335.	9.5	2.2	60.		52.4	22.4
650.0	12337.	6.6	-5	70.		43.7	20.3
600.0	14460.	.2	-3.0	79.		28.3	15.7
550.0	16747.	-3.3	-5.9	92.		3.7	5.4
500.0	19149.	-7.5	-8.7	92.		232.5	9.4
450.0	21368.	-11.8	-12.2	97.		233.0	14.6
400.0	24788.	-15.5	-14.9	97.		178.9	23.5
350.0	28006.	-27.0	-33.8	52.		177.5	28.9
300.0	31583.	-35.0	-50.3	21.		205.4	36.6
250.0	35579.	-42.7				220.0	57.1
200.0	40514.	-52.5				231.9	54.1
175.0	43302.	-53.7				232.4	59.9
150.0	46454.	-61.3				267.2	19.0
125.0	50105.	-68.1				250.3	11.9
100.0	54467.	-71.2				184.4	7.0
90.0	58927.	-69.9				152.4	7.7
70.0	61459.	-64.7				112.8	7.8
50.0	64557.	-62.0				132.1	15.3
40.0	68293.	-58.9				96.5	20.3
30.0	72919.	-55.9				75.7	16.1
20.0	78941.	-53.7					

STATION ALTITUDE 3982.0 FEET *SL
19 JUNE 84
ASCENSION NO. 335

SIGNIFICANT LEVEL DATA

1710320135
WHITE SANDS
32.60043 LAT DEG
136.37033 LON DEG

TABLE 7

PRESSURE GEOMETRIC ALTITUDE MILLIBARS *SL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR	DEWPOINT DEGREES CENTIGRADE	
867.3	17.0	15.9	93.0
873.4	17.2	15.4	99.0
850.0	15.3	13.2	97.0
827.2	13.9	13.0	95.0
773.0	12.1	9.3	83.0
735.9	9.8	5.2	73.0
700.0	7.8	3.5	74.0
574.3	5.1	3.8	95.0
516.2	2.0	-1.2	79.0
599.7	.3	-.4	95.0
577.9	-.3	-.9	96.0
556.5	-1.3	-7.6	52.0
521.1	-5.5	-6.1	96.0
516.1	-5.7	-3.6	30.0
500.0	-5.7	-10.7	73.0
478.5	-7.8	-16.0	51.0
471.3	-9.0	-16.4	55.0
447.4	-12.7	-14.1	99.0
425.4	-15.5	-17.5	95.0
400.0	-18.0	-27.2	64.0
394.5	-19.7	-25.1	57.0
383.3	-19.9	-20.2	99.0
361.9	-23.1	-40.7	18.0
342.7	-25.8	-42.4	21.0
300.0	-33.5	-50.0	17.0
298.4	-33.1	-50.2	15.0
287.2	-34.9	-52.2	15.0
275.0	-37.1	-56.1	15.0
260.7	-38.8	-55.5	15.0
250.0	-40.2		
209.7	-50.2		
200.0	-52.1		
177.7	-57.5		
152.3	-63.2		
150.0	-62.7		
146.9	-53.9		
139.3	-53.1		
129.7	-55.8		
115.3	-70.0		
100.0	-71.2		

STATION ALTITUDE 3282.00 FEET MSL
 19 JUNE 94
 ASCENSION NO. 335 0650 MDT

SIGNIFICANT LEVEL DATA
 1710020335
 WHITE SANDS

GEODETTIC COORDINATES
 32.60043 LAT DEG
 135.37033 LON DEG

TABLE 7 Cont'd

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
75.0 67427.2	-58.5	
70.0 51373.6	-55.5	
50.0 58673.8	-58.4	
39.2 71770.6	-55.5	

STATION ALTITUDE 3287.00 FEET MSL
15 JUNE 84
ASCENSION NO. 335

UPPER AIR DATA
1710020335
WHITE SANDS

GEODETIC COORDINATES
32.60000 LAT DEG
106.37033 LONG DEG

TABLE 8

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TV)	SPEED KNOTS	INDEX OF REFRACTION
3287.0	893.8	17.0	93.0	1049.3	666.2	270.0	2.9	1.0003315
4000.0	883.5	17.0	92.8	1048.7	665.2	259.3	2.8	1.0003315
4500.0	864.9	15.5	98.3	1032.5	655.5	147.9	2.0	1.0003305
5000.0	849.6	15.3	87.1	1019.3	663.9	121.5	5.1	1.0003295
5500.0	834.5	14.3	72.4	1004.5	652.8	117.4	13.3	1.0003293
6000.0	819.6	13.6	93.4	989.2	651.9	114.7	14.2	1.0003297
6500.0	805.0	13.1	90.2	973.3	651.3	106.3	15.3	1.0003280
7000.0	790.5	12.7	87.0	957.7	650.5	95.9	15.3	1.0003273
7500.0	775.4	12.2	83.8	942.3	650.0	89.3	15.3	1.0003265
8000.0	762.5	11.4	80.1	928.3	659.0	79.0	15.0	1.0003258
8500.0	743.7	10.6	76.3	914.3	657.8	69.4	16.1	1.0003250
9000.0	725.2	9.7	73.0	901.3	656.7	63.5	15.6	1.0003243
9500.0	721.8	9.0	73.4	887.3	655.3	50.0	15.3	1.0003233
10000.0	708.7	8.3	73.8	873.5	655.0	59.1	13.5	1.0003233
10500.0	695.8	7.5	75.8	859.7	654.1	56.9	9.6	1.0003229
11000.0	683.1	6.7	81.2	846.5	653.1	50.9	6.7	1.0003227
11500.0	672.5	5.8	84.5	833.5	652.2	35.9	4.5	1.0003224
12000.0	658.1	5.0	83.4	820.3	651.1	14.3	5.0	1.0003219
12500.0	645.0	4.1	92.1	808.3	650.0	1.7	5.8	1.0003213
13000.0	636.0	3.3	80.9	796.0	649.0	4.9	3.5	1.0003208
13500.0	622.3	2.4	79.7	783.9	647.9	9.1	13.3	1.0003204
14000.0	610.7	1.4	84.3	772.1	645.7	8.3	9.9	1.0003201
14500.0	599.3	.3	85.0	750.7	645.4	6.5	9.2	1.0003200
15000.0	583.1	-0.0	85.5	747.2	645.1	148.3	6.6	1.0003196
15500.0	577.0	-0.3	79.1	734.1	644.7	309.6	5.4	1.0003192
16000.0	566.2	-0.8	76.1	722.0	643.9	272.1	5.1	1.0003184
16500.0	555.5	-1.3	83.5	710.0	643.2	249.9	3.6	1.0003176
17000.0	545.0	-2.5	71.5	690.7	641.7	247.2	8.7	1.0003175
17500.0	534.6	-3.8	82.0	680.5	640.2	245.9	8.5	1.0003173
18000.0	524.4	-5.2	92.5	670.3	639.6	243.4	9.2	1.0003172
18500.0	514.4	-5.7	80.7	658.4	637.9	243.7	7.8	1.0003165
19000.0	504.5	-5.4	75.3	657.4	637.0	229.5	3.0	1.0003162
19500.0	494.8	-7.0	70.1	646.3	635.5	218.2	3.4	1.0003158
20000.0	485.2	-7.4	84.8	635.1	635.5	215.4	9.0	1.0003154
20500.0	475.9	-8.2	82.5	624.3	634.5	215.4	9.7	1.0003150
21000.0	465.6	-9.7	59.6	614.0	632.8	215.4	10.4	1.0003148
21500.0	457.5	-11.1	78.7	607.2	631.2	214.5	11.2	1.0003147
22000.0	448.5	-12.5	87.5	598.5	629.5	212.3	11.5	1.0003145
22500.0	439.7	-13.8	87.5	589.5	627.9	210.2	11.8	1.0003142
23000.0	431.0	-15.0	85.9	580.5	625.4	209.2	12.2	1.0003139

STATION ALTITUDE 3972.00 FEET MSL
19 JUNE 54
ASCENSION NO. 335

UPPER AIR DATA
1710020335
WHITE SANDS

GEODETIC COORDINATES
32.63043 LAT DEG
136.37033 LONG DEG

TABLE 8 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ AFTER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TW)	SPEED (KNOTS)	
23500.0	422.4	-16.0	78.9	571.4	525.2	203.3	12.6	1.330135
24000.0	413.9	-16.7	55.9	561.9	526.2	231.2	13.9	1.330131
24500.0	405.6	-17.5	53.0	552.3	523.2	194.7	15.6	1.330128
25000.0	397.5	-18.3	49.9	547.0	520.1	193.2	19.1	1.330125
25500.0	389.5	-19.3	48.6	534.1	520.9	192.5	20.7	1.330123
26000.0	381.6	-20.2	36.9	525.3	519.7	230.9	22.1	1.330120
26500.0	373.8	-21.5	29.5	517.0	518.3	238.7	23.9	1.330117
27000.0	365.2	-22.5	22.2	508.7	516.9	212.8	25.7	1.330115
27500.0	358.7	-23.7	18.5	500.3	515.3	215.4	27.6	1.330113
28000.0	351.3	-25.1	19.6	493.3	513.6	215.8	29.0	1.330111
28500.0	344.0	-26.5	20.3	485.9	511.8	214.5	30.3	1.330109
29000.0	335.8	-27.7	20.5	477.8	510.4	215.3	32.6	1.330107
29500.0	329.6	-28.8	19.8	469.3	509.1	216.3	35.0	1.330105
30000.0	322.7	-29.8	19.2	461.2	507.7	216.3	38.9	1.330106
30500.0	315.9	-30.9	18.5	454.2	506.4	215.2	43.1	1.330102
31000.0	309.2	-32.0	17.9	446.5	505.0	215.0	46.4	1.330103
31500.0	302.7	-33.1	17.3	439.1	503.7	215.8	45.5	1.330093
32000.0	296.2	-34.4	15.8	430.5	503.2	216.4	45.4	1.000095
32500.0	289.9	-35.6	15.2	423.1	501.9	215.9	45.2	1.330095
33000.0	283.5	-36.8	15.0	415.9	500.5	215.2	45.7	1.330093
33500.0	277.5	-37.5	15.0	409.0	500.9	215.7	46.2	1.330091
34000.0	271.5	-38.3	15.0	401.5	500.9	216.5	45.7	1.330090
34500.0	265.5	-39.3	15.0	393.2	500.1	217.5	47.8	1.330088
35000.0	259.8	-39.9	13.7**	386.3	500.2	219.3	50.3	1.330085
35500.0	254.1	-39.7	5.9**	379.0	505.3	220.4	52.7	1.330085
36000.0	248.4	-40.6		372.1	504.1	220.7	54.6	1.330083
36500.0	242.9	-41.8		365.8	502.5	221.1	55.5	1.330081
37000.0	237.4	-43.1		359.6	500.8	221.7	56.8	1.330080
37500.0	232.1	-44.4		353.5	500.2	222.2	54.4	1.330079
38000.0	226.9	-45.7		347.5	500.5	222.7	54.9	1.000077
38500.0	221.8	-47.0		341.5	505.8	223.3	55.3	1.330075
39000.0	215.8	-48.3		335.9	504.2	224.7	54.3	1.330075
39500.0	211.9	-49.6		330.2	502.5	226.2	53.3	1.330074
40000.0	207.1	-50.7		324.3	501.0	229.2	52.4	1.330072
40500.0	202.3	-51.5		318.1	500.8	232.8	51.6	1.330071
41000.0	197.6	-52.7		312.2	500.5	234.9	52.8	1.330070
41500.0	193.0	-53.7		306.4	500.1	237.1	54.1	1.330063
42000.0	188.4	-54.5		300.7	505.6	236.8	52.7	1.330067
42500.0	184.0	-55.9		295.1	504.2	235.4	51.2	1.330066
43000.0	179.7	-57.0		289.5	502.8	235.4	51.2	1.330065

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

UPPER AIR DATA
1710020135
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
19 JUNE 84
ASCENSION NO. 335

GEODETIC COORDINATES
32.60043 LAT DEG
106.37033 LONG DEG

TABLE 8 Cond't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY SM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TND)	SPEED KNOTS	INDEX OF REFRACTION
43500.0	175.4	-59.0		294.0	571.5	234.8	51.1	1.000043
44000.0	171.2	-58.9		278.6	570.3	234.7	50.2	1.000042
44500.0	167.1	-59.8		272.3	559.1	234.5	49.3	1.000041
45000.0	163.1	-60.7		267.4	557.9	233.7	47.0	1.000040
45500.0	159.2	-61.5		262.1	555.7	232.7	44.7	1.000039
46000.0	155.3	-62.5		256.9	555.5	233.5	41.3	1.000037
46500.0	151.6	-63.0		251.4	554.7	234.8	37.8	1.000036
47000.0	147.9	-63.2		245.4	554.5	239.1	32.8	1.000035
47500.0	144.3	-63.8		240.1	553.7	243.2	27.6	1.000033
48000.0	140.8	-63.3		233.7	554.6	243.6	24.5	1.000032
48500.0	137.3	-63.7		228.5	553.8	243.3	21.5	1.000031
49000.0	134.0	-64.6		223.8	552.6	242.3	19.4	1.000030
49500.0	130.7	-65.5		219.3	551.6	241.6	17.3	1.000029
50000.0	127.4	-65.4		214.3	550.1	243.4	14.9	1.000028
50500.0	124.3	-67.3		210.3	558.9	248.2	12.4	1.000027
51000.0	121.2	-68.2		206.0	557.7	249.5	10.4	1.000025
51500.0	118.2	-69.1		201.3	555.5	245.2	8.6	1.000025
52000.0	115.2	-70.0		197.5	555.3	234.6	7.7	1.000024
52500.0	112.3	-70.2		192.8	555.0	215.0	5.4	1.000023
53000.0	109.5	-70.4		188.1	554.7	202.5	2.6	1.000022
53500.0	106.7	-70.7		183.5	554.4	193.9	10.5	1.000041
54000.0	104.0	-70.9		179.2	554.1	187.4	11.5	1.000040
54500.0	101.4	-71.1		174.9	553.8	195.7	11.8	1.000039
55000.0	98.9	-71.1		170.4	553.8	184.0	12.1	1.000038
55500.0	96.4	-70.9		166.7	554.1	184.9	11.1	1.000037
56000.0	94.0	-70.5		161.5	554.4	186.0	10.2	1.000035
56500.0	91.6	-70.4		157.6	554.8	184.6	8.9	1.000035
57000.0	89.3	-70.1		153.2	555.1	181.5	7.6	1.000034
57500.0	87.0	-69.7		149.2	555.4	158.5	5.9	1.000033
58000.0	84.9	-69.7		145.8	555.7	140.0	4.5	1.000032
58500.0	82.7	-69.4		141.5	556.1	128.7	4.6	1.000032
59000.0	80.7	-69.2		137.7	556.4	141.7	6.8	1.000031
59500.0	78.6	-68.9		134.1	555.7	149.5	5.0	1.000030
60000.0	76.7	-68.7		130.5	557.0	144.1	6.9	1.000029
60500.0	74.7	-68.3		127.1	557.5	134.9	4.9	1.000028
61000.0	72.9	-67.3		123.3	559.0	108.1	6.7	1.000027
61500.0	71.1	-65.2		119.4	550.5	24.0	2.2	1.000027
62000.0	69.3	-65.3		116.2	551.7	100.5	11.2	1.000025
62500.0	67.7	-64.8		113.1	552.4	107.8	13.2	1.000025
63000.0	65.0	-64.3		110.1	553.1	107.6	14.5	1.000025

STATION ALTITUDE 3200.00 FEET MSL
15 JUNE 54
ASCENSION NO. 335 0650 MDT

UPPER AIR DATA
1710020335
WMTF SANDS

GEODETIC COORDINATES
32.40065 LAT DEG
106.37033 LON DEG

TABLE 8 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REFLECTIVITY PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
63500.0	54.4	-43.7		107.2	563.7	103.3	15.3	1.000024
64000.0	62.9	-63.2		104.3	564.4	101.1	15.8	1.000023
65000.0	61.3	-62.7		101.5	555.1	100.0	15.4	1.000023
65500.0	59.9	-62.2		99.9	565.8	98.0	15.0	1.000022
66000.0	58.4	-61.7		96.2	555.5	99.2	14.9	1.000021
66500.0	57.0	-61.2		93.7	557.2	99.5	16.7	1.000021
67000.0	55.6	-60.6		91.2	557.9	94.2	16.8	1.000020
67500.0	54.3	-60.1		88.8	558.6	85.5	15.2	1.000020
68000.0	53.0	-59.5		86.4	559.3	90.3	15.0	1.000019
68500.0	51.7	-59.1		84.1	570.0	76.3	17.2	1.000019
69000.0	50.4	-58.6		81.9	570.7	74.0	18.3	1.000018
69500.0	49.2	-58.2		79.8	571.1	83.5	18.9	1.000018
70000.0	48.1	-57.9		77.3	571.5	92.8	20.1	1.000017
70500.0	46.9	-57.7		75.3	571.9	101.8	20.4	1.000017
71000.0	45.8	-57.4		74.0	572.2	112.8	20.5	1.000016
71500.0	44.7	-57.1		72.2	572.6	123.8	21.4	1.000016
72000.0	43.7	-56.8		70.6	573.0	119.5	19.2	1.000015
72500.0	42.7	-56.5		68.5	573.3			1.000015
73000.0	41.7	-56.3		66.9	573.7			1.000015
73500.0	40.7	-56.0		55.3	574.1			1.000015
74000.0	39.7	-55.7		53.5	574.6			1.000014

STATION ALTITUDE 3929.70 FEET MSL
 19 JUN 64 0650 MDT
 ASCENSION NO. 335

MANDATORY LEVELS
 171020335
 WHITE SANDS

GEODETIC COORDINATES
 32.63043 LAT DEG
 106.37033 LON DEG

TABLE 9

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DATA	
				DIRECTION DEGREES (TV)	SPEED KNOTS
850.0	4984.	15.3	97.	121.8	5.9
800.0	6468.	13.0	99.	103.7	15.3
750.0	8446.	10.5	77.	70.5	15.9
700.0	10327.	7.8	74.	57.4	11.0
650.0	12326.	6.6	93.	5.1	6.1
600.0	14452.	3	95.	6.7	9.3
550.0	16747.	-1.9	66.	247.8	9.3
500.0	19204.	-5.7	73.	224.7	8.1
450.0	21984.	-12.3	55.	212.7	11.5
400.0	24804.	-18.0	44.	193.5	17.2
350.0	28335.	-25.6	20.	215.5	29.2
300.0	31544.	-33.5	17.	215.1	45.5
250.0	35784.	-43.2		220.6	54.0
200.0	40645.	-52.1		233.5	52.0
175.0	43442.	-58.1		236.8	51.0
150.0	46587.	-62.7		235.5	36.1
125.0	50244.	-67.1		246.8	13.1
100.0	54631.	-71.2		136.8	11.9
80.0	58355.	-69.1		146.7	4.9
70.0	61590.	-65.5		96.6	10.3
60.0	64690.	-62.2		90.1	15.1
50.0	68419.	-58.6		75.8	18.4
40.0	73052.	-55.8			

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

GEODETIC COORDINATES
32.60063 LAT NEG
136.77033 LON NEG

SIGNIFICANT LEVEL DATA
171000Z030
WHYF SANDS
TABLE 10

STATION ALTITUDE 3289.0 FEET MSL
19 JUNE 94
ASCENSION NO. 335 0950 MDT

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES CENTIGRADE	DEW POINT DEGREES CENTIGRADE	
131.2 3979.0	20.1	15.1	75.0
472.9 4275.1	17.7	16.0	79.0
550.0 5074.9	17.3	15.5	89.0
511.3 4309.2	12.9	12.3	95.0
744.5 5975.3	13.5	13.0	97.0
786.1 7071.3	12.1	11.5	97.0
755.2 8322.3	9.5	3.7	95.0
706.7 11123.3	3.1	7.5	96.0
700.0 11393.6	9.0	3.4	95.0
696.5 10595.2	7.0	5.5	97.0
659.7 11945.2	4.9	4.3	96.0
550.5 12372.1	6.9	6.2	95.0
547.5 12493.7	3.2	2.3	94.0
510.2 14039.2	2.2	.1	96.0
507.3 15046.5	.7	-2.7	79.0
575.0 15535.9	-9	-3.4	93.0
558.9 16339.4	-7	-9.6	55.0
537.5 17412.5	-2.5	-9.4	59.0
500.0 19249.9	-5.0	-16.7	50.0
452.0 21857.5	-12.7	-15.7	72.0
433.7 22577.5	-12.8	-25.3	34.0
430.7 23058.5	-13.9	-27.7	30.0
423.1 23512.9	-16.5	-34.3	16.0
413.1 24173.0	-15.5	-35.5	15.0
400.0 24975.5	-17.4	-36.4	21.0
390.6 26275.0	-22.5	-37.4	24.0
377.1 29042.7	-25.3	-43.4	13.0
328.6 29649.5	-27.2	-45.8	15.0
300.0 31746.2	-32.0	-49.8	15.0
265.3 34572.2	-37.4	-54.3	15.0
255.5 35453.4	-39.4	-56.0	15.0
250.0 35955.3	-40.5		
200.0 42443.2	-51.5		
161.9 42646.0	-55.2		
161.7 45303.0	-59.6		
158.3 45575.2	-50.3		
157.0 46440.2	-52.3		
145.0 47390.2	-52.6		
135.3 48557.5	-54.2		
119.4 51593.0	-59.1		

SEDIMENT COORDINATES
 32.60043 LAT DEG
 105.77033 LON DEG

SIGNIFICANT LEVEL DATA
 171002013P
 WHITE SANDS

TABLE 10 Cont'd

STATION ALTITUDE 3929.00 FEET "SL"
 19 JUNE 84 0958 MDT
 ASCENSION NO. 335

PRESSURE GEOMETRIC ALTITUDE MILLIBARS "SL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
110.3 52535.9	-70.4	
100.0 54905.5	-70.4	
96.2 59277.2	-70.4	
70.0 51951.2	-64.5	
53.4 57457.5	-50.5	
50.7 68835.4	-55.1	
41.0 73020.5	-54.5	
36.2 75550.1	-55.5	

STATION ALTITUDE 3959.00 FEET MSL
 14 JUNE 84
 ASCENSION NO. 332

UPPER AIR DATA
 17100233R
 WHITE SANDS

GEODETIC COORDINATES
 32.60043 LAT DEG
 106.37033 LONG DEG

TABLE 11

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
3959.00	541.2	73.1	78.0	1030.3	559.3	0	0	1.000313
4000.0	541.5	73.0	78.0	1030.2	559.7	42.2	0	1.000312
4500.0	546.0	72.6	52.0	1030.2	555.7	42.2	1.5	1.000306
5000.0	550.8	72.3	32.7	1017.4	555.6	42.2	3.2	1.000306
5500.0	555.7	72.0	21.5	1000.5	554.5	42.2	5.9	1.000297
6000.0	560.6	71.7	14.3	989.1	552.4	54.9	5.9	1.000290
6500.0	566.2	71.4	9.6	974.5	551.4	36.2	8.1	1.000284
7000.0	571.8	71.1	7.0	956.3	551.5	96.6	3.1	1.000281
7500.0	577.6	70.8	6.3	946.4	550.8	104.5	8.1	1.000273
8000.0	583.5	70.5	5.8	929.5	550.0	97.8	5.9	1.000267
8500.0	589.8	70.2	5.8	914.3	558.3	39.5	5.4	1.000262
9000.0	596.3	69.9	5.4	900.5	557.5	35.5	7.2	1.000255
9500.0	603.0	69.6	5.1	886.5	555.5	37.8	7.6	1.000251
10000.0	609.9	69.3	5.3	873.7	555.5	32.5	7.8	1.000245
10500.0	617.0	69.0	5.6	859.1	555.0	94.6	8.1	1.000241
11000.0	624.2	68.7	6.7	848.3	553.0	94.6	8.5	1.000236
11500.0	631.7	68.4	6.4	835.2	552.1	95.0	9.4	1.000229
12000.0	639.4	68.1	6.6	822.2	551.2	97.5	10.0	1.000226
12500.0	647.2	67.8	7.3	812.4	549.0	107.7	9.9	1.000217
13000.0	655.2	67.5	8.1	798.6	548.6	119.0	9.5	1.000212
13500.0	663.4	67.2	8.8	784.5	548.1	134.7	9.6	1.000207
14000.0	671.3	66.9	8.2	771.0	547.7	144.6	5.5	1.000203
14500.0	679.4	66.6	8.5	758.7	545.8	157.0	3.4	1.000197
15000.0	687.6	66.3	8.5	746.7	545.2	133.6	1.6	1.000192
15500.0	695.7	66.0	8.8	736.5	546.2	245.7	1.5	1.000189
16000.0	703.9	65.7	5.4	723.5	543.3	240.2	3.4	1.000181
16500.0	712.2	65.4	5.4	710.5	543.5	240.0	5.2	1.000175
17000.0	720.6	65.1	5.7	698.4	542.5	243.5	5.5	1.000172
17500.0	729.1	64.8	5.8	688.5	541.4	245.1	9.0	1.000169
18000.0	737.6	64.5	5.6	677.3	540.2	249.0	7.0	1.000165
18500.0	746.2	64.2	5.3	667.3	539.1	249.8	10.0	1.000161
19000.0	754.9	63.9	5.1	656.9	537.9	248.8	10.7	1.000157
19500.0	763.6	63.6	5.1	647.0	535.5	241.5	11.1	1.000154
20000.0	772.4	63.3	5.6	637.5	535.0	231.5	11.5	1.000152
20500.0	781.2	63.0	5.4	628.2	533.6	219.2	11.9	1.000150
21000.0	790.0	62.7	5.4	619.1	531.9	209.2	12.7	1.000148
21500.0	798.8	62.4	5.8	610.1	530.3	202.2	13.2	1.000145
22000.0	807.6	62.1	5.4	600.4	529.1	199.7	13.9	1.000142
22500.0	816.4	61.8	5.5	590.3	528.2	203.2	14.7	1.000135
23000.0	825.2	61.5	5.7	579.5	527.6	205.0	15.2	1.000133

STATION ALTITUDE 3969.0 FEET *SL
15 JUNE 84
ASCENSION NO. 332

0958 MDT

UPPER AIR DATA

1710020332
WHITE SANDS

TABLE 11 Cont'd

GEODETIC COORDINATES
32.43345 LAT DEG
136.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES C	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GRAMS/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (T)	SPEED KNOTS	INDEX OF REFRACTION
23500.0	423.3	-14.0	-74.5	16.4	570.2	525.5	214.1	17.8	1.000119
24000.0	416.9	-15.3	-75.4	16.0	560.5	525.6	217.4	17.7	1.000127
24500.0	408.6	-16.4	-76.9	18.5	551.5	524.3	218.9	21.6	1.000125
25000.0	398.5	-17.0	-78.5	21.1	543.1	522.8	215.0	23.0	1.000123
25500.0	390.4	-19.0	-75.3	21.9	534.9	521.2	210.5	26.4	1.000121
26000.0	382.5	-20.3	-76.1	22.7	526.3	519.5	205.5	25.6	1.000119
26500.0	374.7	-21.6	-76.9	23.5	518.8	517.9	203.9	29.4	1.000117
27000.0	367.1	-22.6	-77.9	23.5	510.5	515.5	203.4	32.6	1.000115
27500.0	359.5	-23.6	-79.2	22.2	501.9	515.4	205.5	35.6	1.000113
28000.0	352.1	-24.5	-80.5	20.8	497.2	514.4	208.9	40.0	1.000111
28500.0	344.5	-25.4	-81.9	19.5	487.4	513.3	210.9	42.5	1.000109
29000.0	337.7	-26.2	-83.3	18.1	476.4	512.2	212.5	43.8	1.000107
29500.0	330.7	-27.0	-85.2	15.7	467.9	511.3	214.3	42.6	1.000105
30000.0	323.7	-28.0	-86.5	15.0	450.0	510.0	215.2	41.3	1.000103
30500.0	315.9	-29.1	-87.4	15.0	442.3	508.6	218.4	39.9	1.000101
31000.0	310.2	-30.2	-88.3	15.0	444.9	507.2	220.1	40.1	1.000100
31500.0	303.7	-31.4	-89.3	15.0	437.5	505.8	221.1	41.6	1.000098
32000.0	297.3	-32.4	-90.2	15.0	430.1	504.5	222.0	43.5	1.000095
32500.0	290.9	-33.4	-91.0	15.0	422.5	503.3	222.9	45.7	1.000094
33000.0	284.5	-34.4	-91.8	15.0	415.2	502.0	221.7	45.9	1.000093
33500.0	278.5	-35.3	-92.6	15.0	407.9	500.8	220.3	47.9	1.000091
34000.0	272.5	-36.3	-93.4	15.0	400.3	500.6	219.7	50.2	1.000090
34500.0	266.6	-37.3	-94.2	15.0	392.7	500.4	219.4	52.4	1.000088
35000.0	260.8	-38.4	-95.1	15.0	387.0	500.0	220.5	56.2	1.000086
35500.0	255.1	-39.5	-96.8	13.7**	380.4	500.5	221.4	55.8	1.000085
36000.0	249.5	-40.6			377.8	504.1	220.8	54.5	1.000083
36500.0	243.9	-41.7			370.1	502.7	220.6	53.3	1.000082
37000.0	238.4	-42.9			360.5	501.2	222.0	52.7	1.000080
37500.0	233.0	-44.0			354.2	500.8	223.4	52.3	1.000079
38000.0	227.5	-45.1			347.9	500.3	225.7	52.6	1.000077
38500.0	222.6	-46.2			341.7	500.9	229.0	52.9	1.000075
39000.0	217.6	-47.3			335.7	500.6	228.4	52.4	1.000075
39500.0	212.7	-48.5			329.3	504.0	229.1	51.8	1.000073
40000.0	207.9	-49.6			324.2	502.5	229.9	51.6	1.000072
40500.0	203.2	-50.7			318.2	501.0	230.4	51.5	1.000071
41000.0	198.6	-51.9			312.5	500.5	231.3	51.3	1.000070
41500.0	193.9	-53.0			306.9	500.0	232.3	51.2	1.000068
42000.0	189.4	-54.2			301.3	500.5	232.9	51.3	1.000067
42500.0	185.0	-55.3			295.9	500.0	233.3	51.7	1.000065
43000.0	180.6	-56.4			290.3	500.5	234.1	50.7	1.000065

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

STATION ALTITUDE 19,900 FEET MSL
19 JUNE 84 0958 MDT
ASCENSION NO. 335

UPPER AIR DATA
171000Z
WHITE SANDS

GEOMETRIC COORDINATES
32.43043 LAT N66
106.47033 LON W66

TABLE 11 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CM ³ AFTER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (T)	WIND SPEED KNOTS	INDEX OF REFRACTION
43500.0	175.4	-57.1		254.3	572.7	235.4	49.3	1.000043
44000.0	172.1	-57.8		278.5	571.7	235.6	46.9	1.000042
44500.0	168.1	-58.5		272.7	570.8	234.9	45.5	1.000041
45000.0	164.1	-59.2		257.1	559.9	237.9	45.7	1.000040
45500.0	160.2	-60.2		257.0	558.5	239.1	44.6	1.000039
46000.0	156.3	-61.2		254.9	557.1	240.9	41.8	1.000037
46500.0	152.5	-61.9		251.5	555.3	243.8	37.1	1.000035
47000.0	148.6	-62.4		246.7	555.6	244.8	32.9	1.000035
47500.0	145.2	-62.7		240.4	555.1	243.2	29.2	1.000034
48000.0	141.7	-63.3		235.1	554.4	239.8	25.4	1.000032
48500.0	138.2	-63.8		230.0	553.7	231.7	21.5	1.000031
49000.0	134.8	-64.5		225.1	552.9	220.8	18.3	1.000030
49500.0	131.5	-65.4		220.3	551.5	211.2	17.4	1.000029
50000.0	128.2	-65.6		215.9	550.4	201.7	17.0	1.000028
50500.0	125.1	-67.1		211.5	559.2	206.9	15.2	1.000027
51000.0	122.0	-68.0		207.2	557.9	208.8	13.5	1.000025
51500.0	119.0	-68.9		202.9	555.7	210.4	13.3	1.000025
52000.0	116.0	-69.5		198.4	555.9	212.1	13.1	1.000024
52500.0	113.1	-70.0		193.9	555.3	207.3	13.3	1.000023
53000.0	110.2	-70.4		189.3	554.7	201.5	13.6	1.000022
53500.0	107.4	-70.4		184.5	554.7	199.3	16.4	1.000021
54000.0	104.7	-70.4		180.0	554.7	200.2	15.3	1.000020
54500.0	102.1	-70.4		175.4	554.7	200.7	15.8	1.000019
55000.0	99.5	-70.4		171.0	554.7	201.3	15.9	1.000019
55500.0	97.0	-70.4		166.7	554.7	199.2	14.7	1.000017
56000.0	94.5	-70.4		162.5	554.7	193.1	12.3	1.000016
56500.0	92.2	-70.4		158.4	554.7	185.4	10.4	1.000015
57000.0	89.9	-70.4		154.4	554.7	182.3	10.0	1.000014
57500.0	87.6	-70.4		150.3	554.7	178.9	9.6	1.000013
58000.0	85.4	-70.4		146.7	554.7	159.1	7.9	1.000012
58500.0	83.3	-70.0		142.3	555.2	151.4	7.9	1.000011
59000.0	81.2	-69.6		138.7	555.3	134.5	7.9	1.000010
59500.0	79.2	-69.4		134.7	557.4	115.5	8.7	1.000009
60000.0	77.2	-67.6		130.9	558.5	100.5	10.3	1.000029
60500.0	75.3	-65.8		127.1	559.6	88.3	12.3	1.000028
61000.0	73.4	-65.0		123.5	550.7	79.8	16.7	1.000028
61500.0	71.6	-65.2		120.0	551.3	79.0	15.5	1.000027
62000.0	69.8	-64.3		114.5	552.8	78.7	15.2	1.000026
62500.0	68.1	-64.1		113.5	553.3	83.7	15.5	1.000025
63000.0	65.5	-63.7		110.5	553.8	91.3	14.1	1.000023

STATION ALTITUDE 3927.00 FEET WSL
19 JUNE 84 0958 MDT
ASCENSION NO. 336

UPPER AIR DATA
171000Z
WHITE SANDS

TABLE 11 Cont'd

GEODETIC COORDINATES
32.40063 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE WSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEPT POINT CENTIGRADE	REFL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND METER	WIND DATA DIRECTION DEGREES (TV)	SPEED KNOTS	INDEX OF REFRACTION
63500.0	54.9	-63.4		107.7	554.2	98.4	18.4	1.000024
64000.0	53.3	-63.0		104.7	554.7	95.7	14.0	1.000023
64500.0	51.8	-62.7		102.2	565.2	95.2	14.6	1.000023
65000.0	50.3	-62.3		99.5	555.7	93.1	15.4	1.000022
65500.0	48.8	-61.9		97.0	566.2	91.1	15.8	1.000022
66000.0	47.4	-61.5		94.5	555.7	91.1	15.7	1.000021
66500.0	46.0	-61.2		92.0	557.2	93.7	15.4	1.000020
67000.0	44.6	-60.8		89.7	557.7	95.4	16.2	1.000020
67500.0	43.3	-60.4		87.3	558.2	100.2	17.9	1.000019
68000.0	42.0	-59.8		84.5	570.4	103.8	19.5	1.000019
68500.0	40.8	-59.2		82.0	572.5	107.6	20.3	1.000018
69000.0	39.6	-58.0		79.5	576.0	113.0	20.6	1.000015
69500.0	38.4	-55.8		77.7	574.3	118.2	21.1	1.000017
70000.0	37.3	-55.7		75.3	574.5	117.9	17.8	1.000017
70500.0	36.2	-55.5		73.2	574.3	117.5	14.4	1.000015
71000.0	35.1	-55.3		72.1	575.0	110.2	11.8	1.000015
71500.0	34.1	-55.1		70.4	575.3	35.2	12.4	1.000015
72000.0	33.0	-54.9		68.7	575.3	57.5	16.9	1.000015
72500.0	32.0	-54.7		67.0	575.8	52.2	15.7	1.000015
73000.0	31.0	-54.5		55.6	575.1	53.3	17.5	1.000015
73500.0	30.1	-54.7		53.2	575.8	54.4	18.3	1.000014
74000.0	29.1	-54.9		52.5	575.5			1.000014
74500.0	28.2	-55.1		51.1	575.2			1.000014
75000.0	27.3	-55.3		50.7	575.0			1.000013
75500.0	26.5	-55.2		50.6	574.7			1.000013

STATION ALTITUDE 395.03 FEET "SL
 19 JUNE 84
 ASCENSION NO. 336 0958 MDT

MANDATORY LEVELS
 17102030
 WHITE SANDS

GEODETIC COORDINATES
 32.43043 LAT DEG
 106.87333 LON DEG

TABLE 12

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
957.0	5011.	17.3	15.5	89.	47.2	3.3
907.0	6710.	15.3	12.8	97.	51.0	8.1
757.0	3459.	10.5	10.0	96.	39.5	5.4
707.0	10371.	9.0	8.4	95.	94.7	3.0
657.0	12371.	6.7	4.0	95.	105.2	9.9
607.0	14520.	1.5	-1.2	82.	157.5	3.3
557.0	16780.	-1.4	-8.0	57.	242.3	5.0
507.0	19262.	-5.0	-14.7	50.	244.1	11.1
457.0	21935.	-12.7	-17.7	55.	199.6	13.3
407.0	24867.	-17.6	-34.4	21.	217.2	22.8
357.0	29096.	-24.7	-40.9	20.	209.6	40.7
307.0	31726.	-32.0	-49.8	15.	221.7	42.5
250.0	35877.	-40.5			227.9	56.7
200.0	40749.	-51.5			231.0	51.4
175.0	43552.	-57.3			235.8	67.5
150.0	46712.	-62.2			245.3	36.3
125.0	50371.	-67.2			206.8	15.2
100.0	54735.	-70.6			201.1	15.9
87.0	59087.	-68.8			126.4	3.2
70.0	61727.	-64.5			79.8	15.1
50.0	64845.	-62.2			92.9	15.5
30.0	69575.	-55.1			110.9	20.5
47.0	73248.	-54.7			54.4	18.3

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

STATION ALTITUDE 4051.00 FEET ASL
 17 JUNE 84
 ASCENSION NO. 54

SIGNIFICANT LEVEL DATA
 1710070050
 JALLFN

STATION ALTITUDE 4051.00 FEET ASL
 17 JUNE 84
 ASCENSION NO. 54

TABLE 13

PRESSURE GEOMETRIC ALTITUDE MILLIBARS WSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	
879.7	20.5	14.3	57.0
872.3	18.5	13.7	73.0
858.1	15.9	14.4	85.0
850.0	15.9	13.6	81.0
820.5	14.9	10.9	77.0
799.4	15.1	10.1	72.0
765.6	12.7	7.3	71.0
700.0	9.0	2.5	54.0
666.3	6.5	-0.5	51.0
639.0	3.9	-2.5	63.0
612.1	1.3	-0.5	87.0
594.3	-0.3	-1.6	74.0
570.1	-2.5	-2.3	73.0
540.2	-4.7	-5.0	98.0
531.8	-4.8	-5.5	97.0
510.1	-5.1	-17.2	61.0
490.0	-7.0	-20.9	32.0
482.0	-9.1	-18.3	67.0
465.9	-11.3	-15.2	57.0
445.2	-12.9	-10.1	22.0
441.6	-12.7	-29.0	26.0
426.3	-15.3	-20.9	42.0
404.0	-19.0	-22.5	75.0
400.0	-19.1	-24.0	55.0
392.3	-19.9	-15.5	23.0
342.5	-27.3	-43.8	19.0
300.0	-33.5	-50.1	17.0
287.5	-34.8	-51.1	17.0
258.2	-39.3	-56.6	16.0
250.0	-41.7		
219.9	-47.1		
200.7	-51.3		
179.3	-57.3		
174.7	-57.5		
150.2	-52.7		
131.3	-65.0		
119.5	-59.0		
105.3	-71.2		
100.0	-73.7		
94.1	-71.5		

GEODETIC COORDINATES
 31.15712 LAT DEG
 135.69511 LONG DEG

SIGNIFICANT LEVEL DATA

171033069
 JALLEN

TABLE 13 Cont'd

STATION ALTITUDE 4251.03 FEET "SL
 14 JUNE 84
 ASCENSION NO. 59 1010 MDT

PRESSURE GEOMETRIC ALTITUDE MILLIBARS "SL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
90.3	55555.1	-52.0
90.5	59220.3	-71.0
78.5	60779.3	-69.4
70.0	51777.0	-55.5
61.1	64519.3	-43.8
59.5	65406.2	-41.8
50.0	58023.7	-50.0
40.6	72952.7	-35.3
35.0	74075.5	-56.8
31.4	78377.3	-51.5
30.0	70255.7	-51.3
27.2	81453.5	-50.4
25.8	92610.3	-49.0
20.0	89179.9	-47.0
15.0	94479.4	-46.3
10.0	103550.5	-40.0
8.6	106946.1	-37.2
7.0	111715.9	-35.0

GEODETIC COORDINATES
33.15712 LAT NEG
135.69511 LON NEG

UPPER AIR DATA
171000Z
JALLEN

STATION ALTITUDE 4051.00 FEET "SL"
19 JUN 84
ASCENSION NO. 49

TABLE 14

GEOMETRIC ALTITUDE "SL" FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND M/SEC	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(T)	SPEED (KNOTS)	
4051.0	879.2	20.0	57.0	1035.5	570.1	7	0	1.000302
4500.0	855.4	17.0	79.0	1020.1	555.3	754.7	0	1.000301
5000.0	850.2	15.0	81.1	1016.0	655.8	756.7	1.7	1.000305
5500.0	835.1	12.3	79.0	1000.0	554.5	754.7	2.4	1.000308
6000.0	820.4	10.9	76.9	984.1	653.2	747.3	3.5	1.000323
6500.0	805.8	9.0	73.5	968.5	553.3	734.7	4.9	1.000327
7000.0	791.4	6.5	71.8	952.7	552.7	752.6	5.3	1.000327
7500.0	777.2	4.7	71.6	937.0	551.5	752.6	5.8	1.000327
8000.0	763.4	2.8	70.8	921.3	550.5	74.0	7.0	1.000325
8500.0	749.6	0.5	59.4	911.6	659.5	51.6	7.8	1.000325
9000.0	735.1	3.5	57.9	897.7	558.5	54.8	7.5	1.000322
9500.0	722.8	10.4	56.5	884.2	557.5	59.7	7.6	1.000327
10000.0	709.8	9.5	55.1	870.9	655.5	52.1	5.1	1.000321
10500.0	697.0	3.5	53.7	857.3	555.4	58.4	10.5	1.000325
11000.0	684.2	7.5	52.5	845.2	654.2	55.4	11.7	1.000320
11500.0	671.7	5.9	51.5	832.3	553.0	71.0	13.2	1.000325
12000.0	659.4	5.0	51.5	820.3	551.3	75.4	15.0	1.000321
12500.0	647.3	4.7	52.6	808.0	650.4	75.4	14.7	1.000326
13000.0	635.3	3.5	56.3	797.3	549.0	72.6	13.8	1.000320
13500.0	623.5	2.4	76.7	785.5	547.3	57.6	11.3	1.000323
14000.0	611.9	1.3	97.1	773.9	545.5	58.4	3.7	1.000322
14500.0	600.4	-1.1	91.6	763.2	544.9	50.7	7.3	1.000308
15000.0	589.1	-1.2	94.3	751.9	543.6	60.3	5.7	1.000305
15500.0	578.0	-1.9	96.7	739.9	542.7	56.9	4.8	1.000301
16000.0	567.0	-3.0	98.0	728.1	541.7	36.3	3.8	1.000313
16500.0	555.3	-3.5	98.0	716.4	540.7	130.7	4.2	1.000314
17000.0	545.7	-4.3	98.0	704.9	539.8	157.0	5.6	1.000310
17500.0	535.2	-4.6	91.5	692.9	639.1	175.0	5.7	1.000315
18000.0	525.0	-5.4	72.9	681.1	538.6	191.4	7.3	1.000318
18500.0	515.0	-5.6	51.5	670.0	537.5	205.7	8.4	1.000310
19000.0	505.1	-5.5	36.5	658.5	636.4	218.7	9.4	1.000314
19500.0	495.3	-7.5	25.9	646.0	535.2	228.5	9.5	1.000311
20000.0	485.7	-3.7	43.9	634.1	633.9	733.2	9.6	1.000310
20500.0	475.3	-9.9	54.0	622.1	532.5	734.4	9.7	1.000314
21000.0	467.0	-11.4	55.7	610.0	531.0	722.0	11.2	1.000313
21500.0	457.8	-11.9	49.5	600.9	630.0	711.5	13.7	1.000313
22000.0	448.5	-12.5	29.8	590.3	529.0	704.4	18.3	1.000317
22500.0	439.9	-13.0	27.7	580.7	528.0	199.0	22.4	1.000315
23000.0	431.2	-14.5	50.4	571.3	525.8	192.4	24.5	1.000315
23500.0	422.6	-15.0	54.3	561.9	525.1	139.4	25.6	1.000314

STATION ALTITUDE 4051.0 FEET MSL
14 JUNE 84
ASCENSION NO. 59 1010 MDT

UPPER AIR DATA
1710Z0000
JALLEN

GEODETIC COORDINATES
33.15712 LAT NEG
135.69511 LON NEG

TABLE 14 Cont'd

GLOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND	WIND DATA DIRECTION DEGREES (T)	SPEED (KNOTS)	INDEX OF REFRACTION
					METER			
24000.0	414.2	-17.3	59.1	553.4	523.4	191.7	24.1	1.000112
24500.0	405.9	-15.7	73.9	555.1	521.7	196.0	23.0	1.000110
25000.0	397.7	-14.3	52.4	555.5	520.9	204.7	22.8	1.000115
25500.0	389.6	-13.3	24.8	536.5	519.6	209.3	23.4	1.000121
26000.0	381.6	-11.4	22.2	527.9	518.2	209.5	24.2	1.000119
26500.0	373.7	-12.5	21.5	510.6	515.8	209.4	24.4	1.000117
27000.0	365.0	-13.7	21.0	511.0	515.4	209.4	24.1	1.000115
27500.0	356.5	-14.8	21.3	507.8	514.0	209.5	24.8	1.000113
28000.0	351.1	-15.9	19.7	494.7	512.5	209.4	25.1	1.000111
28500.0	342.9	-17.1	19.1	486.8	511.2	211.0	27.5	1.000109
29000.0	335.7	-18.1	18.7	474.5	509.9	212.9	29.1	1.000107
29500.0	329.6	-19.1	18.4	470.4	508.5	214.4	30.0	1.000105
30000.0	322.6	-20.1	18.1	467.4	507.3	215.5	32.7	1.000104
30500.0	315.6	-21.2	17.6	454.5	505.1	217.3	35.0	1.000102
31000.0	309.1	-22.2	17.5	446.8	504.3	220.0	37.4	1.000100
31500.0	302.6	-23.2	17.1	439.2	503.5	222.5	41.1	1.000098
32000.0	296.1	-24.0	17.0	431.3	502.5	224.5	45.0	1.000095
32500.0	289.8	-24.6	17.0	423.1	501.7	223.7	49.3	1.000093
33000.0	283.5	-25.5	17.2	415.5	500.6	222.4	53.4	1.000091
33500.0	277.3	-26.6	17.4	408.5	500.1	219.3	55.5	1.000090
34000.0	271.3	-27.6	17.7	401.5	500.7	216.5	57.5	1.000092
34500.0	265.4	-28.9	17.9	394.7	506.3	215.7	58.5	1.000098
35000.0	259.6	-29.9	13.2**	387.8	504.9	215.0	59.5	1.000097
35500.0	253.9	-41.0	5.6**	380.9	503.6	216.7	50.7	1.000095
36000.0	248.3	-42.0		374.1	502.3	217.5	62.2	1.000093
36500.0	242.7	-42.9		367.3	501.1	217.3	54.0	1.000092
37000.0	237.3	-43.9		360.5	500.9	217.8	64.5	1.000090
37500.0	231.9	-44.9		353.7	500.6	219.2	53.5	1.000089
38000.0	226.5	-45.6		347.5	500.4	221.1	52.5	1.000087
38500.0	221.7	-46.6		341.1	500.2	223.5	51.6	1.000085
39000.0	215.6	-47.8		334.8	504.9	225.6	51.5	1.000083
39500.0	211.7	-48.6		328.7	503.5	226.4	52.5	1.000081
40000.0	205.8	-49.8		322.5	502.2	227.4	53.0	1.000079
40500.0	202.1	-50.3		314.7	500.9	229.4	52.4	1.000077
41000.0	197.4	-52.0		311.0	500.3	229.5	53.5	1.000075
41500.0	192.8	-53.3		305.5	500.5	229.8	56.0	1.000073
42000.0	188.3	-54.6		300.2	500.9	230.2	57.4	1.000071
42500.0	183.9	-55.0		295.0	504.1	231.2	55.5	1.000069
43000.0	179.6	-57.3		289.8	502.4	231.9	56.4	1.000067
43500.0	175.3	-57.5		283.0	502.4	232.4	58.4	1.000065

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

STATION ALTITUDE 4751.0 FEET WSL
 19 JUNE 84
 ASCENSION NO. 69 1010 MDT

UPPER AIR DATA
 171000Z069
 JALLEN
 TABLE 14 Cont'd

GEODETIC COORDINATES
 33.15712 LAT DEG
 106.49511 LONG DEG

GEOMETRIC ALTITUDE W-SL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED (KNOTS)	INDEX OF REFRACTION
4400.0	171.1	-58.0		277.1	571.4	232.0	53.5	1.000062
4450.0	167.0	-58.9		271.5	570.3	232.0	51.1	1.000063
4500.0	163.0	-59.7		266.1	569.1	233.3	49.7	1.000064
4550.0	159.1	-60.0		260.8	568.0	235.7	47.1	1.000065
4600.0	155.3	-61.5		255.5	566.8	238.1	45.5	1.000066
4650.0	151.6	-62.3		250.5	565.7	239.4	42.8	1.000067
4700.0	147.9	-62.9		245.1	564.8	240.8	40.2	1.000068
4750.0	144.3	-63.6		239.5	564.3	243.0	38.2	1.000069
4800.0	140.8	-63.2		234.2	563.7	235.8	32.2	1.000070
4850.0	137.3	-64.2		229.0	563.1	234.8	25.5	1.000071
4900.0	134.0	-64.7		223.5	562.5	228.8	21.0	1.000072
4950.0	130.7	-65.2		218.2	561.8	214.1	17.9	1.000073
5000.0	127.4	-65.3		214.5	560.3	195.4	15.8	1.000074
5050.0	124.3	-67.3		210.6	558.9	190.5	15.9	1.000075
5100.0	121.2	-69.4		206.2	557.5	191.0	15.9	1.000076
5150.0	118.2	-69.2		201.9	556.3	194.4	15.8	1.000077
5200.0	115.2	-69.0		197.3	555.5	200.5	16.3	1.000078
5250.0	112.3	-70.3		192.8	554.9	200.5	13.8	1.000079
5300.0	109.5	-70.8		188.5	554.2	197.8	13.6	1.000080
5350.0	106.7	-71.3		184.2	553.5	199.8	15.3	1.000081
5400.0	104.0	-71.4		179.5	553.4	202.4	17.5	1.000082
5450.0	101.4	-70.9		174.7	554.0	203.8	17.9	1.000083
5500.0	98.8	-70.9		170.2	554.1	204.1	17.8	1.000084
5550.0	96.3	-71.3		166.2	553.5	201.0	15.2	1.000085
5600.0	93.9	-71.4		162.1	553.3	195.7	11.6	1.000086
5650.0	91.5	-69.6		156.5	555.8	190.5	8.1	1.000087
5700.0	89.2	-69.3		152.5	555.2	185.0	5.9	1.000088
5750.0	87.0	-69.7		148.2	555.7	178.5	5.4	1.000089
5800.0	84.5	-70.1		145.5	555.1	152.4	5.4	1.000090
5850.0	82.7	-70.0		142.1	554.5	138.8	6.5	1.000091
5900.0	80.6	-71.0		138.2	553.9	127.5	6.5	1.000092
5950.0	78.6	-70.6		135.1	554.5	104.0	4.0	1.000093
6000.0	76.6	-70.1		131.4	555.1	94.0	7.1	1.000094
6050.0	74.7	-69.7		127.8	555.7	82.2	3.5	1.000095
6100.0	72.8	-68.5		123.9	557.3	37.3	11.7	1.000096
6150.0	71.0	-66.0		119.7	559.9	87.8	12.7	1.000097
6200.0	69.2	-65.4		116.1	561.5	39.8	12.6	1.000098
6250.0	67.5	-65.1		112.1	562.0	26.4	11.5	1.000099
6300.0	65.9	-64.7		108.1	562.4	103.2	17.5	1.000100
6350.0	64.3	-64.4		103.8	562.3	26.5	11.9	1.000101

STATION ALTITUDE 4751.0 FEET MSL
14 JUNE 84
ASCENSION NO. 59

UPPER AIR DATA
171000Z
JALLEN

SEDECTIC COORDINATES
33.15712 LAT DEG
105.69511 LONG DEG

TABLE 14 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
6400.0	42.7	-46.1		104.5	553.2	37.7	15.5	1.000003
6350.0	41.6	-43.0		101.3	553.7	35.1	14.4	1.000003
6300.0	39.7	-42.7		98.8	555.1	35.3	15.1	1.000002
6250.0	38.6	-41.7		96.0	555.4	36.2	15.1	1.000001
6200.0	36.6	-41.5		92.5	555.3	38.1	17.9	1.000001
6150.0	35.5	-41.2		91.2	557.2	39.1	19.6	1.000000
6100.0	34.1	-40.9		89.3	557.5	39.1	20.7	1.000000
6050.0	32.8	-40.0		86.5	557.9	38.8	21.7	1.000000
6000.0	31.6	-40.4		84.4	558.3	38.9	22.1	1.000000
5950.0	30.3	-40.1		82.3	558.7	39.1	20.8	1.000000
5900.0	29.1	-39.7		80.2	559.2	39.5	19.6	1.000000
5850.0	27.9	-39.3		78.1	559.3	37.9	13.5	1.000000
5800.0	26.8	-38.8		76.1	570.3	36.8	17.7	1.000000
5750.0	25.7	-38.4		74.1	570.9	31.3	15.9	1.000000
5700.0	24.6	-38.0		72.2	571.5	27.5	15.6	1.000000
5650.0	23.6	-37.5		70.4	572.0	23.1	16.4	1.000000
5600.0	22.5	-37.1		68.5	572.5	22.9	16.0	1.000000
5550.0	21.5	-36.7		66.3	573.2	22.3	16.9	1.000000
5500.0	20.5	-36.3		64.1	573.7	35.2	15.0	1.000000
5450.0	19.6	-35.4		62.5	573.5	39.9	17.1	1.000000
5400.0	18.6	-35.5		60.7	573.5	23.2	13.2	1.000000
5350.0	17.7	-35.5		59.3	573.3	25.4	19.5	1.000000
5300.0	16.8	-35.6		57.9	573.1	27.1	12.7	1.000000
5250.0	15.1	-35.5		56.5	573.0	27.1	20.8	1.000000
5200.0	14.3	-35.8		55.0	574.3	25.7	22.8	1.000000
5150.0	13.5	-34.7		53.4	575.9	25.7	24.8	1.000000
5100.0	12.7	-33.9		51.9	577.3	24.1	25.3	1.000000
5050.0	12.0	-32.5		50.5	578.8	31.8	25.7	1.000000
5000.0	11.2	-31.5		49.1	579.8	31.2	25.5	1.000000
4950.0	10.5	-31.7		48.0	579.7	100.5	23.6	1.000000
4900.0	9.8	-31.7		46.9	579.7	111.1	22.3	1.000000
4850.0	9.1	-31.6		45.7	580.2	122.2	22.0	1.000000
4800.0	8.4	-31.0		44.5	580.6	131.5	23.1	1.000000
4750.0	7.7	-30.7		43.5	581.0	139.9	24.5	1.000000
4700.0	7.0	-30.3		42.5	581.5	142.4	25.6	1.000000
4650.0	6.3	-29.3		41.3	582.9	137.8	25.3	1.000000
4600.0	5.6	-28.3		40.2	584.3	133.0	25.1	1.000000
4550.0	4.9	-27.9		39.2	584.7	123.7	24.3	1.000000
4500.0	4.2	-27.0		38.3	584.8	109.7	24.0	1.000000

STATION ALTITUDE 4251.00 FEET MSL
 19 JUNE 34
 ASCENSION NO. 69
 1010 MDT

UPPER AIR DATA
 1710030050
 JALLFN

GEODETIC COORDINATES
 33.15712 LAT DEG
 106.69511 LON 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 DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
84000.0	24.2	-47.8		37.4	586.9	95.6	25.1	1.000005
84500.0	23.7	-47.7		37.5	585.0	95.8	25.1	1.000005
85000.0	23.1	-47.6		37.7	585.1	96.3	25.3	1.000005
85500.0	22.6	-47.5		37.9	585.2	96.8	25.5	1.000005
86000.0	22.1	-47.4		38.1	585.4	97.0	25.9	1.000005
86500.0	21.6	-47.3		38.3	585.5	97.2	25.0	1.000007
87000.0	21.1	-47.2		38.5	585.6	96.7	24.3	1.000007
87500.0	20.6	-47.1		38.8	585.7	96.3	24.5	1.000007
88000.0	20.2	-47.0		39.1	585.3	97.7	25.3	1.000007
88500.0	19.7	-47.0		39.6	585.9	97.5	25.4	1.000007
89000.0	19.3	-46.9		39.7	585.0	97.3	27.4	1.000007
89500.0	18.8	-46.8		39.9	586.0	97.2	27.5	1.000005
90000.0	18.4	-46.8		40.3	586.1	97.1	27.8	1.000005
90500.0	18.0	-46.7		40.5	585.2	97.1	28.1	1.000005
91000.0	17.6	-46.7		40.7	586.3	97.5	28.6	1.000005
91500.0	17.2	-46.6		40.8	585.3	97.5	29.0	1.000005
92000.0	16.8	-46.6		40.9	586.4	97.8	29.4	1.000005
92500.0	16.4	-46.5		41.3	585.5	97.8	30.0	1.000005
93000.0	16.1	-46.5		41.5	586.5	97.8	30.4	1.000005
93500.0	15.7	-46.4		41.5	585.7	97.8	30.0	1.000005
94000.0	15.3	-46.4		41.5	585.7	97.8	30.4	1.000005
94500.0	15.0	-46.3		41.5	585.8	97.8	30.5	1.000005
95000.0	14.7	-46.3		41.5	587.2	97.8	30.3	1.000005
95500.0	14.3	-46.3		41.5	587.7	97.8	30.3	1.000005
96000.0	14.0	-46.3		41.5	588.1	97.8	31.2	1.000005
96500.0	13.7	-46.3		41.5	588.6	97.8	31.2	1.000005
97000.0	13.4	-46.2		41.5	589.0	97.8	31.2	1.000005
97500.0	13.1	-46.2		41.5	589.5	97.8	31.2	1.000005
98000.0	12.8	-46.2		41.5	589.9	97.8	31.2	1.000005
98500.0	12.5	-46.2		41.5	590.4	97.8	31.2	1.000005
99000.0	12.3	-46.2		41.5	590.8	97.8	31.2	1.000005
99500.0	12.0	-46.2		41.5	591.2	97.8	31.2	1.000005
100000.0	11.7	-46.2		41.5	591.7	97.8	31.2	1.000005
100500.0	11.5	-46.1		41.5	592.1	97.8	31.2	1.000005
101000.0	11.2	-46.1		41.5	592.5	97.8	31.2	1.000005
101500.0	11.0	-46.1		41.5	593.0	97.8	31.2	1.000005
102000.0	10.7	-46.1		41.5	593.5	97.8	31.2	1.000005
102500.0	10.5	-46.1		41.5	593.9	97.8	31.2	1.000005
103000.0	10.2	-46.1		41.5	594.4	97.8	31.2	1.000005
103500.0	10.0	-46.0		41.5	594.9	97.8	31.2	1.000005

STATION ALTITUDE 4751.00 FEET WSL
14 JUNE 84
ASCENSION NO. 65 1010 MDT

UPPER AIR DATA
1710070059
JALLFN

GEOGETIC COORDINATES
33.15712 LAT DEG
136.49511 LONG DEG

TABLE 14 Cont'd

GEOMETRIC ALTITUDE WSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CENTIGRADE	REL. HUM. PERCENT	DENSITY SM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED (KNOTS)	INDEX OF REFRACTION
104000.0	9.8	-79.0		14.5	595.3	132.0	34.2	1.000003
104500.0	9.5	-79.2		14.3	595.9	136.2	35.6	1.000003
105000.0	9.4	-78.8		14.2	596.6	136.5	32.7	1.000003
105500.0	9.2	-78.4		14.0	596.9	137.1	31.5	1.000003
106000.0	9.0	-78.0		13.8	597.6	137.9	30.2	1.000003
106500.0	8.8	-77.5		13.7	597.9	138.5	29.9	1.000003
107000.0	8.6	-77.2		13.7	598.4	139.2	27.7	1.000003
107500.0	8.4	-77.1		13.6	598.5	139.3	23.0	1.000003
108000.0	8.2	-76.9		13.1	598.7	139.6	28.3	1.000003
108500.0	8.1	-76.8		11.9	598.9	139.7	23.6	1.000003
109000.0	7.9	-76.7		11.5	599.1			1.000003
109500.0	7.7	-76.6		11.6	599.2			1.000003
110000.0	7.5	-76.4		11.1	599.6			1.000002
110500.0	7.4	-76.3		10.9	599.5			1.000002
111000.0	7.2	-76.2		10.5	599.7			1.000002
111500.0	7.1	-76.1		10.6	599.9			1.000002

STATION ALTITUDE 4751.03 FEET WSL
19 JUNE 84 1010 MDT
ASCENSION NO. 59

MANDATORY LEVELS
171070059
JALLEN

GEOGETIC COORDINATES
33.15712 LAT REG
106.42511 LON REG

TABLE 15

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DATA	
				DIRECTION DEGREES (IN)	SPEED KNOTS
950.0	5038.	15.2	31.	356.7	1.7
930.0	5625.	15.1	72.	354.0	5.2
900.0	8498.	12.0	59.	31.5	7.8
870.0	10722.	9.0	54.	54.6	10.3
840.0	12375.	6.2	62.	76.0	16.3
800.0	14502.	-0.1	92.	49.8	7.3
750.0	16775.	-4.0	93.	167.6	5.3
700.0	19233.	-7.0	32.	227.3	9.4
650.0	21900.	-12.5	32.	205.7	17.5
600.0	24517.	-19.1	55.	202.0	22.8
550.0	25034.	-25.1	20.	209.6	25.2
500.0	27168.	-33.6	17.	228.3	42.6
450.0	27562.	-41.7		217.8	51.5
400.0	40631.	-51.3		229.1	52.7
350.0	43432.	-57.3		232.6	58.3
300.0	46597.	-62.7		239.9	61.8
250.0	50245.	-67.1		190.3	15.8
200.0	54502.	-70.7		208.7	17.8
150.0	58950.	-70.9		115.6	4.6
100.0	61568.	-65.5		87.6	13.6
50.0	64557.	-63.0		95.2	14.9
0.0	68376.	-60.0		59.2	20.6
	72087.	-55.6		39.0	15.5
	79020.	-51.8		107.2	22.6
	82930.	-47.9		115.3	23.9
	97770.	-47.0		92.5	25.6
	94330.	-45.3		59.7	30.5
	102096.	-40.0		99.9	35.0
	111073.	-35.0			

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

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FILMED

10-84

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