

AD-A140 928

12833A LANCE MISSILE NUMBER 2549 ROUND NUMBER 395-DSL

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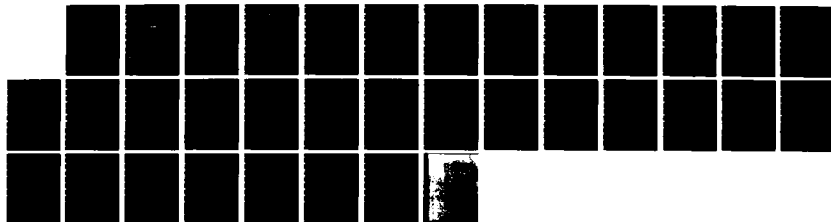
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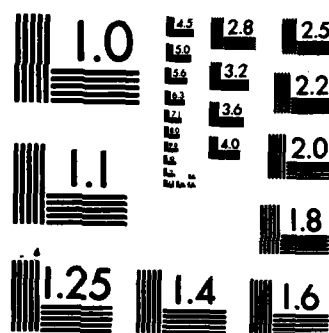
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DR 1337
28 Feb 84

(12)

AD-A140 928

METEOROLOGICAL DATA REPORT

12833A LANCE

Missile Number 2549

Missile Number 2549

Missile Number 2549

by

RONALD C. KELLER

Program Support Coordinator

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ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

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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 12833A Lance, Missile Number 2549, Round Number 395-DSL are presented in tabular form.		

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INTRODUCTION

12833A Lance, Missile Number 2549, Round Number 395-DSL, was launched from Don Site, White Sands Missile Range (WSMR), New Mexico, at 1248:23 MST, 28 Feb 84. The scheduled launch time was 1225 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 (gm/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 RAPTS T-9 pibal observation at:

SITE AND ALTITUDE

DON 3600 Meters

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

SITE AND TIME

JALLEN	0830 MST
WSD	1215 MST
WSD	1215 MST

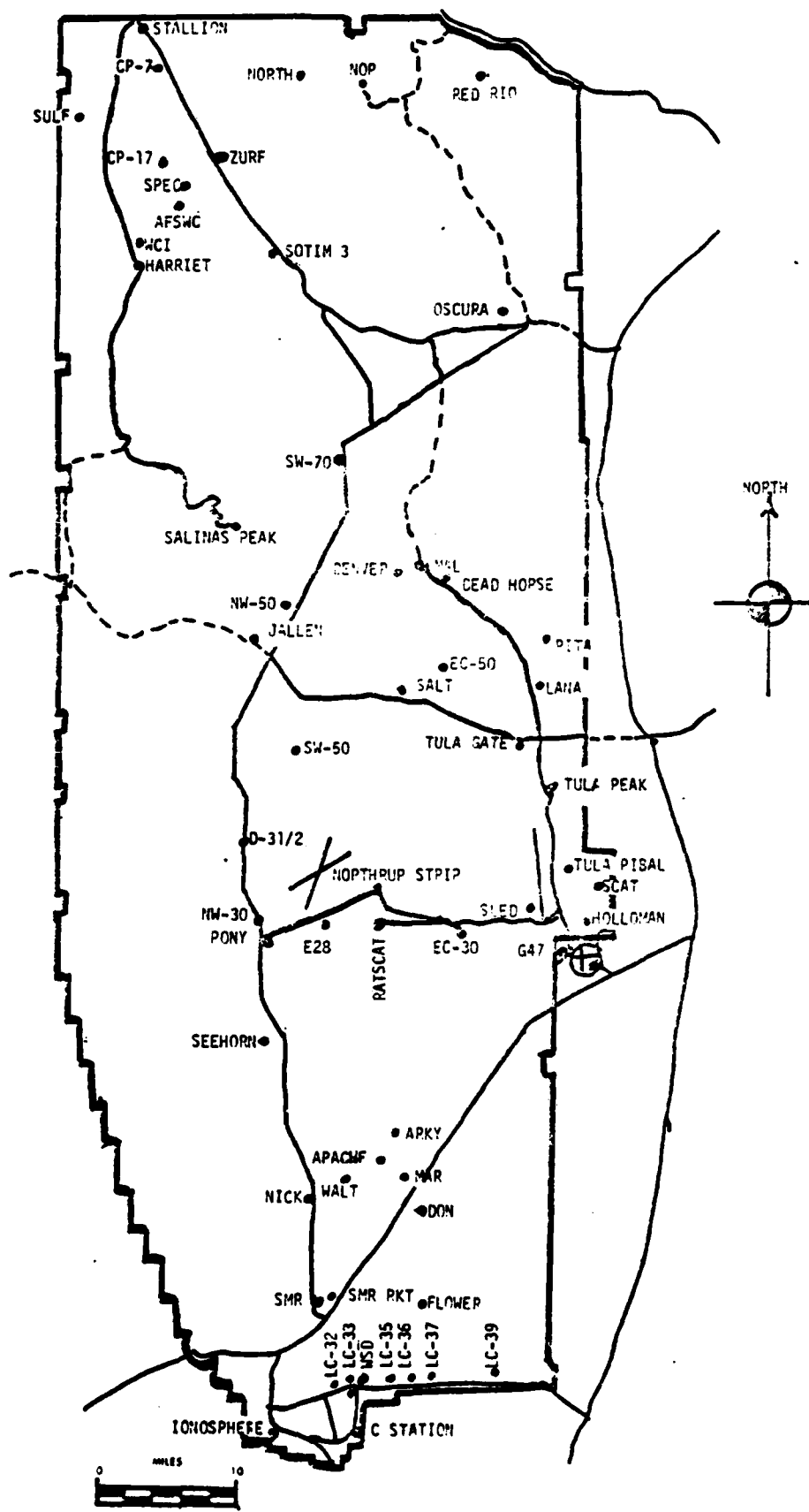
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WSMR METEOROLOGICAL SITES



PROJECT SURFACE OBSERVATION

TABLE 1									
STATION DON SITE									
DATE 28 Feb 1984		Y= 511.988.37		Y= 247.396.66		H= 3996.83			
TIME MST	PRESSURE mbs	TEMPERATURE OF °C	DEW POINT OF °C	RELATIVE HUMIDITY %	DENSITY gm/m ³	DIRECTION degs	WIND SPEED kts	CHARACTER kts	VISIBIL- ITY
1249	885.0	13.5	-5.3	27	1075.1	170	06		40

OBSERVATIONS TO VISIBILITY	CLOUDS						REMARKS
	1st LAYER		2nd LAYER		3rd LAYER		
	AMT	TYPE	AMT	TYPE	AMT	TYPE	
	8	CS	25,000				

PSYCHROMETRIC COMPUTATION

TIME:	MST	1249	
DRY BULB TEMP.		13.5	
WET BULB TEMP.		5.2	
WET BULB DEPR.		8.3	
DEW POINT		-5.3	
RELATIVE HUMID.		27	

WINDS ALOFT DATA

TABLE NUMBER 2

RELEASED FROM: Don Site DATE 28 Feb 84 TIME 1215 MST X MDT

UTM COORDINATES: X= 511,988.37 Y= 247,396.66 Z= 3996.83

METHOD OF DATA COLLECTION: S/T X D/T T-9 PAGE 2041N

HEIGHTS: METERS AGL X FEET AGL METERS MSL X FEET MSL

HEIGHT	DIRECTION DEGREES	SPEED KTS
SFC	180	06
60	187	05
120	194	06
180	200	06
240	189	06
300	181	07
360	174	07
420	169	07
480	163	06
540	159	06
600	152	06
660	147	06
720	145	07
780	143	07
840	146	07
900	162	05
960	185	05
1020	197	04
1080	209	03
1140	221	03
1200	221	03
1260	221	03
1320	237	04
1380	245	07
1440	249	08
1500	252	09
1560	256	09
1620	257	09

HEIGHT	DIRECTION DEGREES	SPEED KTS
1680	258	09
1740	261	09
1800	266	09
1860	271	09
1920	279	09
1980	286	09
2040	290	10
2100	293	10
2160	294	11
2220	296	12
2280	297	12
2340	300	12
2400	304	12
2460	308	11
2520	313	11
2580	317	10
2640	317	10
2700	316	10
2760	315	11
2820	314	11
2880	313	12
2940	313	13
3000	312	13
3060	310	13
3120	309	14
3180	307	13
3240	306	13
3300	305	13

[illegible]

WINDS ALOFT DATA

TABLE NUMBER 3

RELEASED FROM: DON SITE DATE 28 Feb 84 TIME 1249 INST X NOT

UTM COORDINATES: X= 511,988.37 Y= 247,396.66 H= 3996.83

METHOD OF DATA COLLECTION: S/T _____ D/T _____ T-9 _____ X _____ PAGE _____ DRAWING _____

HEIGHTS: METERS AGL x FEET AGL METERS MSL FEET MSL

HEIGHT	DIRECTION DEGREES	SPEED KTS
SFC	170	06
60	180	01
120	180	04
130	160	10
240	181	10
300	179	11
360	167	14
420	180	12
480	187	10
540	175	10
600	170	09
660	172	09
720	157	11
730	130	09
840	117	09
900	150	02
960	169	02
1020	153	02
1080	196	02
1140	211	04
1200	172	02
1260	311	04
1320	278	03
1380	258	05
1440	242	08
1500	241	10
1560	235	10
1620	242	09

HEIGHT	DIRECTION DEGREES	SPEED KTS
1680	243	10
1740	243	10
1800	243	10
1860	263	10
1920	267	06
1980	255	09
2040	278	11
2100	273	11
2160	283	10
2220	304	10
2280	281	11
2340	300	13
2400	298	13
2460	294	16
2520	308	10
2580	314	11
2640	315	11
2700	296	11
2760	306	11
2820	302	13
2880	297	12
2940	310	12
3000	305	14
3060	312	13
3120	299	17
3180	292	20
3240	291	20
3300	295	15

[illegible]

AIMING AND T-TIME COMPUTER MET MESSAGE DATA

28 February 1984

JALLEN 0830 MST

METCM1332065

281550124885

00071006	27460885
01142016	27370874
02588008	27400847
03265004	27470806
04413005	27390757
05513014	27210712
06540015	27120668
07557016	26940627
08549019	26580589
09548022	26190552
10539025	25770517
11543026	25340484
12516032	24690436
13511030	23940379
14490032	23120328
15492047	22410283
16499062	21686242
17498063	21170207
18494059	21550176
19497067	21580151
20496047	21530129
21502043	21210110
22536034	21050093
23546018	21040080
24549004	21180068
25197007	21280058
26159012	21330049

WSD 1215 MST

METCM1324064

281930122886

00267008	28500886
01291007	28240875
02303007	27970849
03265005	27610808
04342003	27510760
05442009	27360714
06522010	27200671
07549009	26920630
03538011	26610591
09539016	26260554
10533014	25850519
11492020	25420486
12482025	24770439
13481031	23960381
14484044	23300330
15478056	22520285
16471063	21700244
17476064	21150208
18483062	21610178
19483060	21600152
20497049	21400130
21491035	21190110
22497029	20950094
23452011	21000080
24467014	21110068
25549005	21190058
26021007	21290049

JALLEN 1215 MST

METCM1332065

281930124884

00320004	28350884
01302008	28120873
02289006	27730847
03338006	27490806
04468006	27430757
05480009	27280712
06554010	27090668
07548012	26830627
08547015	26510589
09534016	26150552
10528020	25710517
11519022	25280483
12505027	24640436
13483034	23840379
14487043	23180328
15480054	22430282
16481069	21620242
17476061	21210206
18479061	21560176
19484066	21640150
20502055	21450129
21494039	21170110
22502026	21030093
23458013	21020079
24452010	21190068
25569005	21300058
26122011	21400049

STATION ALTITUDE 4051.00 FEET MSL
28 FEB. 84 0830 HRS MST
ASCENSION NO. 22

SIGNIFICANT LEVEL DATA
U590010022
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 5

PRESSURE GLOMETRIC		TEMPERATURE		REL.HUM. PERCENT
ALTITUDE	AIR	DEWPOINT		
MILLIBARS	MSL FEET	DEGREES	CENTIGRADE	
884.8	4051.0	1.1	-8.1	50.0
873.4	4392.7	-1.1	-12.0	40.0
850.0	5107.4	.4	-11.3	41.0
813.2	6275.8	1.5	-10.6	40.0
783.2	7269.1	.9	-12.1	37.0
771.0	7682.7	-1.1		35.0
751.2	8368.3	1.1	-18.2	22.0
722.2	9405.0	-1.4	-22.4	17.0
700.0	10222.3	-2.2	-20.0	24.0
687.5	10692.4	-2.3	-17.1	31.0
678.1	11051.8	-1.9	-21.3	21.0
657.2	11869.1	-2.2	-24.6	16.0
641.2	12511.6	-2.7	-25.0	16.0
579.1	15136.8	-8.4	-29.7	16.0
500.0	19817.2	-17.6	-32.8	25.0
478.8	19877.9	-20.5	-33.5	30.0
471.0	20276.8	-21.7	-31.9	39.0
460.6	20816.2	-23.2	-29.3	57.0
447.6	21503.3	-25.1	-30.2	62.0
432.4	22325.8	-27.2	-32.2	62.0
422.5	22673.6	-28.3	-31.6	73.0
407.7	23712.4	-29.9	-36.9	50.0
400.0	24158.5	-30.9	-37.3	53.0
366.7	26168.4	-35.6	-42.4	49.0
353.3	27017.3	-37.6	-43.3	55.0
326.1	28616.9	-42.7		
300.0	30655.9	-46.3		
250.0	34569.1	-54.9		
224.7	36799.8	-59.9		
200.0	39167.9	-63.1		
191.3	40077.2	-59.5		
169.6	42578.1	-56.4		
160.7	43703.2	-57.5		
150.0	45139.8	-56.9		
147.2	45532.7	-57.5		
120.6	49679.1	-58.0		
111.8	51241.9	-61.3		
100.0	53520.3	-62.2		
82.2	57504.5	-63.5		
70.0	60792.2	-60.8		

STATION ALTITUDE 4051.00 FEET MSL
 28 FEB. 84 0830 HRS MST
 ASCENSION NO. 22

SIGNIFICANT LEVEL DATA
 0590030022
 JALLEN

TABLE 5 Con't

PRESSURE	GEOMETRIC ALTITUDE	TEMPERATURE	REL. HUM.
MILLIBARS	MSL FEET	AIR DEWPOINT DEGREES CENTIGRADE	PERCENT
65.5	62142.2	-62.2	
62.7	63036.9	-60.6	
57.3	64891.2	-60.0	
51.5	67087.4	-60.9	
50.0	67695.8	-60.0	
38.2	73293.7	-56.6	
32.9	76419.2	-57.5	
30.0	78349.3	-56.9	
25.4	81843.7	-56.0	

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

STATION ALTITUDE 4051.00 FEET MSL
28 FEB. 84 0830 HRS MST
ASCENSION NO. 22

UPPER AIR DATA
0590010022
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 6

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS			
4051.0	884.8	1.1	-8.1	50.0	1122.3	645.6	40.0	6.0	1.000267	
4500.0	869.8	-0.0	-11.9	40.2	1108.3	644.2	55.6	8.1	1.000259	
5000.0	853.5	.3	-11.4	40.8	1086.0	644.6	65.2	10.8	1.000255	
5500.0	837.5	.8	-11.1	40.7	1063.8	645.2	70.9	13.7	1.000250	
6000.0	821.7	1.2	-10.8	40.2	1042.0	645.7	74.5	16.7	1.000246	
6500.0	806.3	1.4	-10.9	39.3	1022.0	645.9	107.0	3.0	1.000241	
7000.0	791.2	1.1	-11.7	37.8	1004.0	645.5	239.2	12.6	1.000236	
7500.0	776.4	.3	-13.0	35.9	987.8	644.6	244.3	18.2	1.000231	
8000.0	761.8	.5	-15.5	29.0	960.0	644.7	247.2	23.3	1.000225	
8500.0	747.5	.9	-18.7	21.4	949.4	645.2	257.8	16.0	1.000219	
9000.0	733.4	.2	-20.7	19.0	934.1	644.3	281.4	10.4	1.000214	
9500.0	719.6	-6	-22.1	17.8	919.3	643.3	286.1	12.4	1.000210	
10000.0	706.0	-1.7	-20.5	22.1	905.5	642.1	289.2	14.4	1.000208	
10500.0	692.6	-2.3	-18.2	28.1	890.0	641.5	292.3	14.5	1.000206	
11000.0	679.4	-2.0	-20.6	22.4	872.2	641.8	295.8	14.6	1.000200	
11500.0	666.6	-2.1	-23.0	18.3	856.1	641.6	303.2	14.5	1.000196	
12000.0	653.9	-2.3	-24.6	16.0	840.7	641.3	310.0	14.7	1.000192	
12500.0	641.5	-2.7	-25.0	16.0	825.9	640.8	311.9	15.0	1.000188	
13000.0	629.2	-3.8	-25.8	16.0	813.3	639.6	313.3	15.4	1.000185	
13500.0	617.1	-4.8	-26.7	16.0	800.9	638.3	310.7	16.7	1.000182	
14000.0	605.2	-5.9	-27.6	16.0	788.7	637.0	308.5	18.0	1.000179	
14500.0	593.6	-7.0	-28.5	16.0	776.7	635.7	309.0	19.2	1.000176	
15000.0	582.2	-8.1	-29.4	16.0	764.9	634.4	309.4	20.5	1.000173	
15500.0	570.8	-9.3	-29.8	16.9	753.4	632.9	309.0	21.1	1.000171	
16000.0	559.5	-10.6	-30.1	18.1	742.0	631.4	308.6	21.7	1.000168	
16500.0	548.4	-11.8	-30.5	19.3	730.8	629.9	306.8	22.5	1.000165	
17000.0	537.6	-13.1	-30.9	20.6	719.8	628.4	304.8	23.4	1.000163	
17500.0	527.0	-14.3	-31.4	21.8	709.0	626.9	304.0	24.1	1.000160	
18000.0	516.6	-15.6	-31.9	23.0	698.4	625.4	304.1	24.7	1.000158	
18500.0	506.4	-16.8	-32.4	24.2	687.9	623.8	304.4	25.1	1.000156	
19000.0	496.3	-18.1	-32.9	25.9	677.7	622.3	305.1	25.3	1.000153	
19500.0	486.2	-19.5	-33.2	28.2	667.5	620.6	305.4	25.5	1.000151	
20000.0	476.4	-20.9	-32.9	32.8	657.6	618.9	303.2	25.7	1.000149	
20500.0	466.7	-22.3	-30.6	46.4	647.9	617.1	301.0	26.1	1.000147	
21000.0	457.1	-23.7	-29.5	58.3	638.1	615.4	295.0	26.0	1.000145	
21500.0	447.7	-25.1	-30.2	42.0	628.4	613.7	280.7	26.3	1.000143	
22000.0	438.4	-26.4	-31.4	62.0	618.6	612.1	285.4	26.6	1.000141	
22500.0	429.2	-27.5	-32.0	65.5	608.6	610.6	286.6	30.5	1.000138	
23000.0	420.2	-28.5	-32.3	69.5	598.3	609.4	289.2	35.3	1.000136	
23500.0	411.4	-29.5	-35.5	55.8	588.0	608.2	289.6	35.8	1.000133	

STATION ALTITUDE 4051.00 FEET MSL
28 FEB. 84 0830 HRS MST
ASCENSION NO. 22

UPPER AIR DATA
C590030022
JALLEN
TABLE 6 Con't

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA	INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE			KNOTS	DEGREES(TN)		
24000.0	402.7	-30.5	-17.2	51.9	578.1	606.9	290.0	36.4	1.000170
24500.0	394.1	-31.7	-18.2	52.3	568.5	605.4	290.3	36.9	1.000128
25000.0	385.7	-32.9	-19.5	51.3	559.1	603.9	290.7	37.4	1.000126
25500.0	377.5	-34.0	-40.7	50.3	549.8	602.5	289.6	35.3	1.000124
26000.0	369.4	-35.2	-42.0	49.3	540.7	601.0	288.2	32.8	1.000121
26500.0	361.4	-36.4	-42.7	51.3	531.7	599.5	286.6	30.4	1.000119
27000.0	353.6	-37.6	-43.2	54.9	522.7	598.0	284.3	29.9	1.000117
27500.0	345.8	-39.0	-47.3	40.2**	514.3	596.2	281.9	29.5	1.000115
28000.0	338.2	-40.4	-52.7	25.0**	506.1	594.4	279.2	29.8	1.000113
28500.0	330.7	-41.8	-61.4	9.7**	498.0	592.6	276.2	30.9	1.000111
29000.0	323.4	-43.1			489.6	590.9	273.4	32.2	1.000109
29500.0	316.1	-44.0			480.7	589.7	273.2	35.4	1.000107
30000.0	309.1	-45.0			471.9	588.4	273.1	38.6	1.000105
30500.0	302.1	-46.0			463.3	587.2	273.7	41.1	1.000103
31000.0	295.2	-47.1			454.9	585.8	274.9	42.9	1.000101
31500.0	288.4	-48.2			446.6	584.4	276.0	44.7	1.000099
32000.0	281.8	-49.3			438.4	582.9	276.8	47.1	1.000098
32500.0	275.3	-50.4			430.5	581.5	277.5	49.5	1.000096
33000.0	269.0	-51.5			422.6	580.1	278.7	53.0	1.000094
33500.0	262.8	-52.6			415.0	578.6	279.9	56.9	1.000092
34000.0	256.7	-53.6			407.4	577.2	280.8	60.3	1.000091
34500.0	250.8	-54.7			400.1	575.7	280.9	61.4	1.000089
35000.0	244.9	-55.9			392.6	574.3	280.9	62.5	1.000087
35500.0	239.1	-57.0			385.3	572.8	280.6	62.5	1.000086
36000.0	233.4	-58.1			378.1	571.3	280.2	62.5	1.000084
36500.0	227.9	-59.2			371.1	569.8	280.2	63.7	1.000083
37000.0	222.4	-60.2			363.8	568.5	280.3	65.2	1.000081
37500.0	217.0	-60.9			356.1	567.6	279.9	64.7	1.000079
38000.0	211.8	-61.5			348.6	566.7	279.2	63.5	1.000078
38500.0	206.6	-62.2			341.3	565.8	278.8	62.5	1.000076
39000.0	201.7	-62.9			334.1	564.9	278.4	61.6	1.000074
39500.0	196.8	-63.6			324.3	566.4	278.3	61.4	1.000072
40000.0	192.0	-64.8			313.5	569.0	278.4	61.4	1.000070
40500.0	187.4	-65.0			304.9	570.1	278.1	60.7	1.000068
41000.0	183.0	-65.4			296.8	571.0	277.5	59.6	1.000066
41500.0	178.6	-65.7			288.9	571.8	278.2	59.3	1.000064
42000.0	174.4	-66.1			281.2	572.6	279.3	59.3	1.000063
42500.0	170.2	-66.5			273.7	573.4	280.1	59.9	1.000061
43000.0	166.2	-66.8			267.6	573.0	280.8	60.7	1.000060
43500.0	162.3	-67.3			261.9	572.4	279.8	63.0	1.000058

** AT LEAST 0.1% ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL
26 FEB. 84 0830 WRS MSY
ASCENSION NO. 22

UPPER AIR DATA
C5900'0022
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

TABLE 6 Con't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (IN)	SPEED KNOTS	
44000.0	158.1	-55.4		255.8	572.3	278.8	65.2	1.000057
44500.0	154.7	-57.0		249.5	572.5	278.5	65.7	1.000056
45000.0	151.0	-58.4		243.3	572.8	278.6	65.8	1.000054
45500.0	147.0	-59.4		238.1	572.2	279.4	65.4	1.000053
46000.0	143.1	-60.6		232.6	572.0	280.2	64.1	1.000052
46500.0	140.5	-57.6		227.1	571.9	281.1	61.7	1.000051
47000.0	137.2	-57.7		221.8	571.9	281.2	57.9	1.000049
47500.0	133.9	-57.7		216.6	571.8	280.9	53.4	1.000048
48000.0	130.7	-57.8		211.5	571.7	280.0	50.7	1.000047
48500.0	127.6	-57.9		206.5	571.6	278.9	48.1	1.000046
49000.0	124.6	-57.9		201.7	571.5	278.4	45.1	1.000045
49500.0	121.6	-58.0		196.9	571.5	277.9	42.2	1.000044
50000.0	118.7	-58.7		192.9	570.5	278.9	40.5	1.000043
50500.0	115.9	-59.7		189.2	569.1	280.5	39.2	1.000042
51000.0	113.1	-60.8		185.6	567.7	280.4	39.4	1.000041
51500.0	110.4	-61.4		181.6	566.9	279.5	40.5	1.000040
52000.0	107.7	-61.6		177.4	566.6	280.5	42.0	1.000040
52500.0	105.1	-61.8		173.3	566.4	282.6	43.9	1.000039
53000.0	102.6	-62.0		169.2	566.1	287.3	43.8	1.000038
53500.0	100.1	-62.2		165.3	565.8	293.7	43.1	1.000037
54000.0	97.7	-62.4		161.4	565.6	296.4	40.0	1.000036
54500.0	95.3	-62.5		157.6	565.4	298.2	36.0	1.000035
55000.0	93.0	-62.7		153.9	565.2	299.2	31.2	1.000034
55500.0	90.7	-62.8		150.3	565.0	300.2	26.2	1.000033
56000.0	88.5	-63.0		146.7	564.7	304.0	22.4	1.000033
56500.0	86.4	-63.2		143.1	564.5	310.0	19.0	1.000032
57000.0	84.3	-63.3		139.9	564.3	311.6	18.4	1.000031
57500.0	82.2	-63.5		136.6	564.1	311.3	18.7	1.000030
58000.0	80.2	-63.1		133.1	564.6	311.1	19.4	1.000030
58500.0	78.3	-62.7		129.6	565.2	310.8	20.1	1.000029
59000.0	76.4	-62.3		126.2	565.7	310.7	19.9	1.000028
59500.0	74.5	-61.9		122.9	566.3	310.6	19.1	1.000027
60000.0	72.7	-61.4		119.7	566.8	312.0	15.4	1.000027
60500.0	71.0	-61.0		116.6	567.4	318.7	8.6	1.000026
61000.0	69.3	-61.0		113.7	567.4	337.3	3.5	1.000025
61500.0	67.6	-61.5		111.3	566.7	345.0	1.5	1.000025
62000.0	66.0	-62.1		108.8	566.0	349.0	.1	1.000024
62500.0	64.4	-61.6		106.0	566.7	271.1	3.5	1.000024
63000.0	62.8	-60.7		103.0	567.9	272.0	7.0	1.000023
63500.0	61.3	-60.5		100.4	568.2	250.7	2.9	1.000022

STATION ALTITUDE 4051.00 FEET MSL
28 FEB. 84 0830 HRS MST
ASCENSION NO. 22

UPPER AIR DATA
U590030022
JALLEN

GEOGETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

TABLE 6 Con't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
64000.0	59.8	-60.3			97.9	568.4		137.7		1.000022
64500.0	58.4	-60.1			95.5	568.6		113.7		1.000021
65000.0	57.0	-60.0			93.2	568.7		106.4		1.000021
65500.0	55.6	-60.2			91.0	568.4		105.0		1.000020
66000.0	54.3	-60.5			88.9	568.2		105.0		1.000020
66500.0	53.0	-60.7			86.9	567.9		100.1		1.000019
67000.0	51.7	-60.9			84.9	567.6		91.8		1.000019
67500.0	50.5	-60.3			82.6	568.4		87.2		1.000018
68000.0	49.3	-59.8			80.5	569.0		87.0		1.000018
68500.0	48.1	-59.5			78.4	569.4		88.3		1.000017
69000.0	47.0	-59.2			76.5	569.8		94.0		1.000017
69500.0	45.8	-58.9			74.5	570.2		98.1		1.000017
70000.0	44.8	-58.6			72.7	570.6		92.2		1.000016
70500.0	43.7	-58.3			70.8	571.0		86.6		1.000016
71000.0	42.7	-58.0			69.1	571.4		83.3		1.000015
71500.0	41.6	-57.7			67.3	571.8		81.2		1.000015
72000.0	40.7	-57.4			65.6	572.2		79.5		1.000015
72500.0	39.7	-57.1			64.0	572.7		78.0		1.000014
73000.0	38.7	-56.8			62.4	573.1		75.0		1.000014
73500.0	37.8	-56.7			60.9	573.2		71.9		1.000014
74000.0	36.9	-56.8			59.5	573.0		73.1		1.000013
74500.0	36.1	-56.9			58.1	572.8		75.7		1.000013
75000.0	35.2	-57.1			56.8	572.6		78.6		1.000013
75500.0	34.4	-57.2			55.5	572.4		81.5		1.000012
76000.0	33.6	-57.4			54.2	572.3		83.0		1.000012
76500.0	32.8	-57.5			52.9	572.1		83.1		1.000012
77000.0	32.0	-57.3			51.6	572.3		81.2		1.000011
77500.0	31.2	-57.2			50.4	572.5		74.0		1.000011
78000.0	30.5	-57.0			49.2	572.7		67.1		1.000011
78500.0	29.8	-56.9			48.0	572.9		65.2		1.000011
79000.0	29.1	-56.7			46.8	573.1		63.6		1.000010
79500.0	28.4	-56.6			45.7	573.3		66.6		1.000010
80000.0	27.7	-56.5			44.6	573.5		70.3		1.000010
80500.0	27.1	-56.3			43.5	573.6				1.000010
81000.0	26.4	-56.2			42.5	573.8				1.000009
81500.0	25.8	-56.1			41.4	574.0				1.000009

STATION ALTITUDE 4051.00 FEET MSL
28 FEB. 84 0830 HRS MST
ASCENSION NO. 22

MANDATORY LEVELS
G-90070022
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 7 Con't

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
850.0	5104.	-4	-11.3	41.	66.7	11.4	
800.0	6703.	1.2	-11.3	39.	221.0	4.2	
750.0	8403.	1.0	-18.4	22.	255.2	17.3	
700.0	10213.	-2.2	-20.0	24.	290.6	14.4	
650.0	12144.	-2.4	-24.7	16.	310.6	14.8	
600.0	14214.	-6.4	-28.0	16.	308.7	18.6	
550.0	16423.	-11.6	-30.5	19.	307.1	22.4	
500.0	18797.	-17.6	-32.8	25.	304.8	25.2	
450.0	21344.	-24.7	-30.0	61.	290.7	26.2	
400.0	24120.	-30.9	-37.3	53.	290.1	36.5	
350.0	27163.	-38.2	-44.9	49.44	283.3	29.7	
300.0	30598.	-46.3			274.1	41.6	
250.0	34497.	-54.9			280.9	61.5	
200.0	39078.	-63.1			278.3	61.4	
175.0	41821.	-57.2			279.1	59.3	
150.0	45023.	-56.9			278.8	65.7	
125.0	48799.	-57.9			278.5	45.6	
100.0	53360.	-62.2			293.6	43.1	
80.0	57869.	-63.0			311.0	19.4	
70.0	60579.	-60.8			328.7	5.3	
60.0	63719.	-60.3			148.9	2.3	
50.0	67447.	-60.0			87.1	12.1	
40.0	72048.	-57.2			78.6	25.1	
30.0	78022.	-56.9			65.8	30.6	

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

STATION ALTITUDE 3939.00 FEET MSL
28 FEB. 84 1215 HRS MST
ASCENSION NO. 78

SIGNIFICANT LEVEL DATA

0590070078
WHITE SANDS
GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 8

PRESSURE (LONOMETRIC) MILLIBARS MSL FEET	ALTITUDE	TEMPERATURE		REF. NUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
885.8	3939.0	11.2	-7.1	27.0
979.6	4190.7	9.3	-10.7	23.0
962.3	4718.9	7.1	-11.6	25.0
950.0	5106.2	6.5	-11.1	27.0
792.4	6977.5	1.0	-13.1	34.0
772.8	7678.6	.9	-19.5	20.0
766.8	7844.7	2.2	-20.3	17.0
743.4	8666.3	2.2	-21.0	16.0
700.0	10252.8	-7	-20.8	20.0
690.4	10615.4	-3	-19.4	22.0
667.9	11484.1	-1.6	-20.5	22.0
655.9	11958.0	-1.9	-20.7	22.0
613.5	13692.4	-5.5	-27.3	16.0
604.5	14073.0	-6.0	-23.7	23.0
578.3	15206.1	-8.4	-27.3	20.0
573.6	15416.2	-8.5	-27.4	20.0
500.0	19860.6	-17.1	-31.2	28.0
455.5	21132.5	-23.3	-38.1	24.0
447.9	21577.2	-23.8	-39.0	23.0
423.0	22900.6	-27.8	-39.3	32.0
400.0	24210.6	-32.3	-37.1	62.0
388.8	24869.2	-32.8	-41.1	43.0
353.8	27037.6	-36.6	-46.2	36.0
339.4	27980.6	-38.9	-48.3	36.0
320.6	29259.6	-41.8		
300.0	30771.8	-44.7		
273.6	32736.0	-50.4		
250.0	34655.4	-54.7		
225.6	36791.6	-60.4		
215.2	37756.1	-62.3		
200.0	39247.3	-62.1		
191.8	40105.5	-59.4		
160.3	41387.1	-57.4		
172.0	42372.8	-55.6		
163.6	42422.4	-56.4		
154.8	44500.9	-55.9		
150.0	45246.1	-56.9		
140.4	46612.1	-59.8		
134.2	47565.8	-58.4		
106.3	52342.9	-61.8		

STATION ALTITUDE 3929.00 FEET MSL
28 FEB. 84 1215 HRS MST
ASCENSION NO. 78

SIGNIFICANT LEVEL DATA
059002007R
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT NEG
106.37033 LON NEG

TABLE 8 Con't

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
100.0 51585.4	-63.6		
79.9 58150.6	-64.1		
75.0 59413.8	-61.0		
70.0 60324.2	-62.5		
50.7 67716.8	-60.3		
30.0 79301.1	-58.0		
20.0 86778.7	-56.8		
15.2 92595.2	-52.4		

STATION ALTITUDE 3989.00 FEET MSL
20 FEB. 94 1215 HRS MST
ASCENSION NO. 78

UPPER AIR DATA
0590070078
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT NEG
106.37033 LONG NEG

TABLE 9

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
3789.0	885.8	11.4	77.0	1083.6	657.4	150.0	8.0	1.000258
4000.0	885.4	11.1	76.8	1083.6	657.3	150.1	7.9	1.000258
4500.0	869.3	8.0	74.2	1075.9	653.6	153.7	7.1	1.000252
5000.0	853.4	6.7	76.5	1061.2	652.0	158.3	6.4	1.000249
5500.0	837.5	5.3	78.5	1046.5	650.5	164.1	5.6	1.000246
6000.0	822.0	3.9	80.3	1032.5	648.8	156.5	5.1	1.000242
6500.0	806.7	2.4	82.2	1018.8	647.0	148.6	4.8	1.000239
7000.0	791.7	1.0	83.5	1005.0	645.4	149.3	4.2	1.000235
7500.0	776.9	.9	82.9	986.7	645.2	154.6	3.6	1.000227
8000.0	762.3	2.2	86.8	963.9	646.6	185.8	3.3	1.000221
8500.0	748.1	2.2	86.2	945.9	646.6	216.1	4.2	1.000216
9000.0	734.1	1.6	86.8	930.2	645.9	233.2	6.6	1.000213
9500.0	720.3	.7	88.1	915.8	644.9	244.8	8.3	1.000210
10000.0	706.7	-.2	89.4	901.6	643.8	257.1	9.3	1.000207
10500.0	693.4	-.4	91.4	885.2	643.6	268.5	9.7	1.000204
11000.0	680.3	-.9	92.0	869.9	643.1	280.3	10.0	1.000200
11500.0	667.5	-1.6	92.0	855.8	642.2	289.3	9.9	1.000197
12000.0	654.8	-2.0	91.9	840.7	641.7	297.2	9.4	1.000193
12500.0	642.3	-3.0	90.1	827.9	640.5	304.4	9.3	1.000190
13000.0	630.1	-4.1	88.4	815.3	639.2	310.6	9.3	1.000186
13500.0	618.1	-5.1	86.7	802.9	638.0	310.8	9.8	1.000183
14000.0	606.2	-5.9	84.3	789.8	637.0	305.2	10.1	1.000180
14500.0	594.5	-6.9	81.9	777.5	635.8	305.9	10.2	1.000177
15000.0	583.0	-8.0	80.6	765.5	634.6	303.1	11.1	1.000174
15500.0	571.7	-8.7	78.4	752.8	633.7	301.7	12.5	1.000171
16000.0	560.4	-10.0	76.2	741.5	632.2	301.7	14.4	1.000169
16500.0	549.3	-11.4	72.5	730.3	630.6	303.1	15.5	1.000166
17000.0	538.5	-12.5	72.7	719.3	629.1	305.6	15.9	1.000163
17500.0	527.9	-13.7	74.8	708.5	627.6	302.8	15.6	1.000161
18000.0	517.5	-15.0	76.0	697.9	626.1	296.3	15.0	1.000158
18500.0	507.2	-16.2	77.2	687.5	624.6	287.7	15.8	1.000156
19000.0	497.1	-17.5	77.8	677.2	623.0	279.7	17.3	1.000153
19500.0	487.1	-18.8	76.9	667.0	621.3	276.6	19.6	1.000151
20000.0	477.2	-20.2	76.0	657.0	619.7	274.9	21.9	1.000148
20500.0	467.5	-21.6	75.1	647.2	618.0	274.1	23.9	1.000146
21000.0	458.0	-22.9	74.2	637.5	616.3	273.4	25.9	1.000143
21500.0	448.6	-23.8	73.1	628.5	615.3	272.8	25.8	1.000141
22000.0	439.3	-25.2	76.1	619.0	613.6	272.1	25.7	1.000139
22500.0	430.2	-26.6	79.4	609.8	611.7	270.5	25.4	1.000137
23000.0	421.2	-28.1	74.3	598.8	609.9	268.0	25.1	1.000135

STATION ALTITUDE 3029.00 FEET MSL
26 FEB. 84 1215 WRS MST
ASCENSION NO. 76

UPPER AIR DATA
US90.7007R
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.17033 LONG DEG

TABLE 9 Con't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ AFTER	SPEED OF SOUND		WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
					KNOTS	KNOTS			
23500.0	412.3	-29.9	45.7	590.3	607.7	267.8	267.8	26.5	1.000173
24000.0	403.6	-31.6	57.2	581.9	605.6	267.2	267.2	28.0	1.000171
24500.0	395.0	-32.5	53.7	571.8	604.4	268.3	268.3	29.3	1.000179
25000.0	386.6	-33.0	42.6	560.8	603.7	269.9	269.9	30.6	1.000176
25500.0	378.3	-33.9	41.0	550.7	602.6	272.0	272.0	32.0	1.000174
26000.0	370.1	-34.8	39.3	540.9	601.5	273.4	273.4	33.4	1.000171
26500.0	362.2	-35.7	37.7	531.2	600.4	274.1	274.1	34.8	1.000119
27000.0	354.4	-36.5	36.1	521.7	599.3	274.0	274.0	36.3	1.000117
27500.0	346.7	-37.7	36.0	512.9	597.8	273.1	273.1	37.9	1.000115
28000.0	339.1	-38.9	35.5**	504.4	596.2	272.2	272.2	39.7	1.000113
28500.0	331.6	-40.1	31.4**	495.7	594.8	271.3	271.3	41.7	1.000111
29000.0	324.3	-41.2	7.3**	487.1	593.3	270.6	270.6	43.7	1.000109
29500.0	317.1	-42.3		478.5	591.9	270.0	270.0	45.7	1.000107
30000.0	310.1	-43.3		469.9	590.7	269.7	269.7	48.6	1.000105
30500.0	303.2	-44.2		461.4	589.4	269.6	269.6	51.8	1.000103
31000.0	296.3	-45.5		452.4	587.8	269.4	269.4	54.4	1.000101
31500.0	289.6	-46.9			0	269.1	269.1	56.5	1.000099
32000.0	283.0	-48.3		435.5	584.2	268.7	268.7	58.0	1.000098
32500.0	276.6	-49.7		431.3	582.3	268.0	268.0	59.2	1.000096
33000.0	270.2	-51.0		423.7	580.7	267.4	267.4	59.3	1.000094
33500.0	264.0	-52.1		416.0	579.2	266.7	266.7	58.4	1.000093
34000.0	257.8	-53.2		409.4	577.7	266.1	266.1	58.7	1.000091
34500.0	251.8	-54.4		401.0	576.3	265.5	265.5	60.3	1.000089
35000.0	245.9	-55.6		393.8	574.6	265.2	265.2	62.1	1.000088
35500.0	240.1	-57.0		386.8	572.8	265.2	265.2	64.0	1.000086
36000.0	234.4	-58.3		380.0	571.1	265.6	265.6	64.1	1.000085
36500.0	228.8	-59.6		373.3	569.3	266.3	266.3	62.4	1.000083
37000.0	223.3	-60.8		366.4	567.7	267.0	267.0	61.8	1.000082
37500.0	217.9	-61.8		359.2	566.4	267.4	267.4	62.6	1.000080
38000.0	212.6	-62.3		351.3	565.7	267.7	267.7	64.1	1.000078
38500.0	207.5	-62.2		342.6	565.8	267.6	267.6	66.5	1.000076
39000.0	202.4	-62.1		334.2	565.9	267.6	267.6	67.4	1.000074
39500.0	197.5	-61.3		324.9	567.0	267.7	267.7	65.4	1.000072
40000.0	192.6	-59.7		314.7	569.1	268.0	268.0	63.0	1.000070
40500.0	188.2	-58.8		305.8	570.4	269.0	269.0	59.2	1.000068
41000.0	183.7	-58.0		297.4	571.4	270.1	270.1	55.4	1.000066
41500.0	179.3	-57.2		289.3	572.5	271.5	271.5	56.9	1.000064
42000.0	175.1	-56.3		281.3	573.7	272.8	272.8	58.7	1.000063
42500.0	171.0	-55.7		273.9	574.5	273.2	273.2	60.8	1.000061
43000.0	166.9	-56.1		267.9	574.0	273.2	273.2	63.0	1.000060

** AT LEAST 0.1% ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3969.00 FEET MSL
28 FEB. 84 1215 HRS MST
ASCENSION NO. 78

UPPER AIR DATA
U59002007R
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 9 Con't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
43500.0	143.0	-56.4		261.9	573.6	273.1	64.1	1.000058
44000.0	159.2	-56.2		255.5	573.9	272.8	63.8	1.000057
44500.0	155.4	-55.9		249.2	574.2	272.3	63.8	1.000056
45000.0	151.7	-56.5		244.0	573.4	271.4	64.7	1.000054
45500.0	148.1	-57.4		239.2	572.2	270.5	65.6	1.000053
46000.0	144.6	-58.5		234.7	570.8	271.6	62.8	1.000052
46500.0	141.2	-59.6		230.2	569.4	272.8	59.9	1.000051
47000.0	137.8	-59.2		224.4	569.8	275.4	54.9	1.000050
47500.0	134.5	-58.5		219.2	570.8	276.7	49.5	1.000049
48000.0	131.3	-58.7		213.3	570.5	280.1	48.4	1.000047
48500.0	128.1	-59.1		208.5	570.0	280.2	49.3	1.000046
49000.0	125.0	-59.4		203.8	569.5	280.3	48.5	1.000045
49500.0	122.0	-59.6		199.7	569.1	280.3	45.9	1.000044
50000.0	119.1	-60.1		194.8	568.6	280.2	43.1	1.000043
50500.0	116.3	-60.5		190.4	568.1	280.0	39.9	1.000042
51000.0	113.5	-60.8		186.2	567.6	279.7	37.0	1.000041
51500.0	110.7	-61.2		182.0	567.2	279.2	36.6	1.000040
52000.0	108.1	-61.6		178.0	566.7	278.6	36.1	1.000039
52500.0	105.5	-62.0		174.1	566.1	278.5	33.3	1.000038
53000.0	102.9	-62.4		170.4	565.1	278.4	30.3	1.000037
53500.0	100.4	-63.5		166.8	564.1	277.1	30.6	1.000036
54000.0	98.0	-63.6		162.9	563.9	275.3	32.9	1.000035
54500.0	95.6	-63.7		159.0	563.8	274.5	33.2	1.000034
55000.0	93.2	-63.8		155.1	563.7	274.8	31.4	1.000033
55500.0	91.0	-63.8		151.4	563.7	274.5	29.0	1.000032
56000.0	88.7	-63.9		147.7	563.6	271.8	24.5	1.000031
56500.0	86.6	-63.9		144.2	563.5	267.9	20.1	1.000030
57000.0	84.5	-64.0		140.7	563.4	264.2	15.9	1.000029
57500.0	82.4	-64.0		137.3	563.4	258.2	11.9	1.000028
58000.0	80.4	-64.1		134.0	563.3	255.7	9.5	1.000027
58500.0	78.4	-63.2		130.2	564.4	257.5	8.1	1.000026
59000.0	76.5	-62.0		126.3	566.1	260.4	7.9	1.000025
59500.0	74.7	-61.1		122.7	567.3	263.3	10.5	1.000024
60000.0	72.9	-61.6		120.0	566.6	265.0	13.1	1.000023
60500.0	71.1	-62.2		117.4	565.9	264.8	12.9	1.000022
61000.0	69.4	-62.4		114.7	565.5	264.5	12.4	1.000021
61500.0	67.7	-62.3		111.9	565.7	262.6	12.2	1.000020
62000.0	66.1	-62.1		109.1	565.9	259.4	12.3	1.000019
62500.0	64.5	-62.0		106.4	566.1	259.1	12.5	1.000018
63000.0	62.9	-61.8		103.8	566.4	271.0	13.2	1.000017

STATION ALTITUDE 3989.00 FEET MSL
26 FEB. 84 1215 HRS MST
ASCENSION NO. 78

UPPER AIR DATA
U590020078
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT NEG
106.17733 LONG NEG

TABLE 9 Con't

GEOMETRIC ALTITUDE PSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
63500.0	61.4	-61.6		101.2	566.6	281.2	14.5	1.000023
64000.0	59.9	-61.5		99.7	566.8	285.2	13.8	1.000022
64500.0	58.5	-61.3		96.2	567.0	287.1	12.1	1.000021
65000.0	57.1	-61.2		93.8	567.2	290.1	10.2	1.000021
65500.0	55.7	-61.0		91.5	567.4	298.5	7.1	1.000020
66000.0	54.4	-60.8		89.2	567.6	318.0	4.5	1.000020
66500.0	53.1	-60.7		87.0	567.9	352.5	4.1	1.000019
67000.0	51.9	-60.5		84.8	568.1	35.6	5.5	1.000019
67500.0	50.5	-60.4		82.7	568.3	26.7	7.1	1.000018
68000.0	49.3	-60.2		80.7	568.5	25.8	7.0	1.000018
68500.0	48.1	-60.1		78.7	568.6	24.9	7.0	1.000018
69000.0	47.0	-60.0		76.8	568.7	32.6	8.1	1.000017
69500.0	45.9	-59.9		74.9	568.9	43.6	10.9	1.000017
70000.0	44.8	-59.8		73.1	569.0	50.0	13.9	1.000016
70500.0	43.7	-59.7		71.3	569.2	57.9	14.4	1.000016
71000.0	42.7	-59.6		69.6	569.3	66.6	14.6	1.000015
71500.0	41.7	-59.5		67.9	569.5	74.4	14.7	1.000015
72000.0	40.7	-59.4		66.3	569.6	78.7	11.7	1.000015
72500.0	39.7	-59.3		64.6	569.8	86.0	8.9	1.000014
73000.0	38.7	-59.2		63.1	569.9	89.6	8.5	1.000014
73500.0	37.8	-59.0		61.5	570.0	84.6	11.4	1.000014
74000.0	36.9	-58.9		60.0	570.2	81.7	14.4	1.000013
74500.0	36.0	-58.8		58.6	570.3	78.9	16.1	1.000013
75000.0	35.2	-58.7		57.2	570.5	76.2	17.3	1.000013
75500.0	34.3	-58.6		55.8	570.6	73.8	18.5	1.000012
76000.0	33.5	-58.5		54.4	570.8	75.0	18.6	1.000012
76500.0	32.7	-58.4		53.1	570.9	76.8	18.5	1.000012
77000.0	31.9	-58.3		51.8	571.1	78.7	18.5	1.000012
77500.0	31.2	-58.2		50.5	571.2	83.9	21.7	1.000011
78000.0	30.4	-58.1		49.3	571.3	87.7	25.1	1.000011
78500.0	29.7	-58.0		48.1	571.5	90.4	28.1	1.000011
79000.0	29.0	-57.9		47.0	571.6	91.5	29.4	1.000010
79500.0	28.3	-57.8		45.8	571.7	92.6	30.6	1.000010
80000.0	27.7	-57.8		44.7	571.8	93.3	30.7	1.000010
80500.0	27.0	-57.7		43.7	571.8	93.3	28.5	1.000010
81000.0	26.4	-57.6		42.6	571.9	93.3	26.3	1.000009
81500.0	25.7	-57.5		41.6	572.0	91.7	25.1	1.000009
82000.0	25.1	-57.5		40.6	572.1	88.4	25.0	1.000009
82500.0	24.5	-57.4		39.6	572.2	85.1	25.1	1.000009
83000.0	24.0	-57.3		38.7	572.3	83.2	25.8	1.000009

STATION ALTITUDE 3989.00 FEET "SL
28 FEB. 84 1215 HNS MST
ASCENSION NO. 76

UPPER AIR DATA
059007007R
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 9 Con't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
83500.0	23.4	-57.3		37.8	572.4	82.9	27.2	1.000008
84000.0	22.8	-57.2		36.9	572.5	82.5	28.6	1.000008
84500.0	22.3	-57.1		36.0	572.6	82.5	29.8	1.000008
85000.0	21.8	-57.1		35.1	572.7	83.0	30.7	1.000008
85500.0	21.3	-57.0		34.3	572.8	83.4	31.6	1.000008
86000.0	20.8	-56.9		33.4	572.9	84.0	32.3	1.000007
86500.0	20.3	-56.8		32.6	573.0	84.9	32.3	1.000007
87000.0	19.8	-56.6		31.8	573.2	85.7	32.4	1.000007
87500.0	19.3	-56.3		31.0	573.7	86.5	32.4	1.000007
88000.0	18.9	-55.9		30.3	574.2	86.7	32.7	1.000007
88500.0	18.4	-55.5		29.5	574.7	87.0	33.0	1.000007
89000.0	18.0	-55.1		28.8	575.2	87.2	33.1	1.000006
89500.0	17.6	-54.7		28.1	575.7	85.5	31.5	1.000006
90000.0	17.2	-54.4		27.4	576.2	87.1	29.3	1.000006
90500.0	16.8	-54.0		26.7	576.7	80.7	27.2	1.000006
91000.0	16.4	-53.6		26.0	577.2			1.000006
91500.0	16.0	-53.2		25.4	577.7			1.000006
92000.0	15.6	-52.9		24.7	578.2			1.000005
92500.0	15.3	-52.5		24.1	578.7			1.000005

STATION ALTITUDE 3939.00 FEET MSL
28 FEB. 84
ASCENSION NO. 78

MANDATORY LEVELS
U59002007R
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 10

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
850.0	5107.	6.5	-11.1	27.	159.4	6.2	
800.0	6720.	1.7	-12.8	31.	148.9	4.5	
750.0	8424.	2.2	-20.8	16.	217.0	3.9	
700.0	10241.	-7	-20.8	20.	262.4	9.8	
650.0	12181.	-2.4	-21.6	21.	300.1	9.3	
600.0	14249.	-6.4	-24.3	22.	307.5	10.2	
550.0	16461.	-11.1	-28.4	22.	303.0	15.5	
500.0	18934.	-17.1	-31.2	28.	281.9	16.8	
450.0	21392.	-23.7	-38.7	23.	272.9	25.8	
400.0	24171.	-32.3	-37.1	62.	267.7	28.5	
350.0	27234.	-37.2	-46.7	36.	273.5	37.2	
300.0	30671.	-44.7			269.5	53.2	
250.0	34581.	-54.7			265.3	60.7	
200.0	39154.	-62.1			267.6	66.5	
175.0	41905.	-56.3			272.8	58.6	
150.0	45120.	-56.9			271.0	65.1	
125.0	48876.	-59.4			280.3	48.5	
100.0	53421.	-63.6			276.8	10.9	
80.0	57910.	-64.1			255.9	9.3	
70.0	60617.	-62.5			264.6	12.6	
60.0	63745.	-61.5			285.0	14.0	
50.0	67464.	-60.3			26.4	7.1	
40.0	72039.	-59.3			82.4	10.1	
30.0	77960.	-58.0			89.3	26.9	
25.0	81744.	-57.5			89.0	25.0	
20.0	86376.	-56.8			85.2	32.3	

STATION ALTITUDE 4051.00 FEET MSL
28 FEB. 84 1215 HRS MST
ASCENSION NO. 23

SIGNIFICANT LEVEL DATA
U-90050023
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 11

PRESSURE	GLOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES CENTIGRADE	DEWPOINT	
282.7	4051.0	10.0	-8.6	26.0
470.2	4468.5	7.0	-12.2	24.0
550.0	5098.7	4.0	-11.6	31.0
816.2	6176.0	1.1	-13.0	34.0
905.4	6528.1	1.7	-14.0	30.0
762.4	7977.1	.5	-16.3	27.0
744.2	8614.9	1.5	-19.0	20.0
700.0	10225.8	-1.4	-17.9	27.0
669.0	11409.6	-2.2	-20.0	24.0
605.2	14003.9	-6.6	-24.7	22.0
544.8	16674.0	-12.4	-29.7	22.0
500.0	19804.7	-18.4	-32.7	27.0
485.4	19529.5	-20.2	-29.5	43.0
423.4	22805.3	-28.6	-28.7	37.0
400.0	24135.1	-32.3	-26.6	65.0
394.1	24479.3	-33.4	-32.2	68.0
375.1	25616.6	-35.3	-42.9	45.0
354.3	26918.0	-37.7	-46.7	38.0
300.0	30621.0	-45.6		
250.0	34546.0	-55.4		
223.1	36907.2	-60.9		
206.7	38462.7	-63.1		
200.0	39174.9	-60.4		
194.1	39752.6	-58.4		
185.7	40669.1	-58.6		
183.7	40694.2	-57.0		
170.7	42423.7	-57.5		
150.0	45117.1	-57.2		
141.1	46397.6	-55.5		
120.7	47679.6	-60.9		
100.0	51487.7	-62.0		
85.6	56646.5	-63.9		
70.0	60741.1	-61.4		
50.0	67667.4	-59.3		
37.0	72933.7	-57.0		
30.0	78319.7	-57.4		
20.0	81642.0	-55.1		
17.1	90160.0	-54.3		

STATION ALTITUDE 4051.00 FEET PSL
28 FEB. 84 1215 HRS MST
ASCENSION NO. 23

UPPER AIR DATA
0590070023
JAILLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 12

GEOMETRIC ALTITUDE PSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4051.0	883.7	10.0	-8.6	76.0	1085.8	656.0	180.0	4.1	1.000257
4500.0	869.2	6.9	-12.1	74.3	1080.3	652.2	177.8	4.6	1.000252
5000.0	853.1	4.5	-11.6	74.9	1069.3	649.5	175.0	5.2	1.000251
5500.0	837.2	2.9	-12.1	72.1	1055.4	647.7	174.3	5.8	1.000247
6000.0	821.6	1.6	-12.7	73.5	1040.8	646.1	178.4	5.9	1.000243
6500.0	806.3	1.7	-13.9	70.3	1021.1	646.1	190.9	5.7	1.000238
7000.0	791.1	1.3	-14.7	79.0	1003.2	645.7	212.5	4.8	1.000233
7500.0	776.3	.9	-15.5	78.0	987.0	645.2	244.6	4.6	1.000229
8000.0	761.7	.5	-16.4	76.7	969.8	644.8	259.7	5.9	1.000224
8500.0	747.4	1.3	-16.4	71.3	948.0	645.7	266.0	7.4	1.000218
9000.0	733.4	.8	-18.6	71.7	931.9	645.0	264.0	8.6	1.000215
9500.0	719.6	-.1	-18.3	73.8	917.3	644.0	267.5	9.2	1.000212
10000.0	706.0	-1.0	-18.0	76.0	903.0	642.9	278.8	9.1	1.000209
10500.0	692.7	-1.6	-18.4	76.3	887.9	642.2	291.2	9.1	1.000205
11000.0	679.6	-1.9	-19.3	75.0	872.2	641.8	304.5	9.2	1.000201
11500.0	666.7	-2.4	-20.2	73.9	857.0	641.3	311.2	9.5	1.000197
12000.0	653.9	-3.2	-21.1	73.5	843.3	640.3	315.3	9.9	1.000194
12500.0	641.4	-4.0	-22.0	73.2	829.8	639.3	311.6	10.9	1.000190
13000.0	629.1	-4.9	-22.9	72.8	814.5	638.3	307.6	12.0	1.000187
13500.0	617.1	-5.7	-23.8	72.4	803.5	637.2	306.9	13.2	1.000184
14000.0	605.3	-6.6	-24.7	72.0	790.7	636.2	306.2	14.4	1.000180
14500.0	593.5	-7.7	-25.6	72.0	778.4	634.9	305.6	15.2	1.000177
15000.0	581.9	-8.8	-26.6	72.0	766.4	633.6	305.0	16.0	1.000174
15500.0	570.6	-9.8	-27.5	72.0	754.6	632.3	302.8	16.2	1.000172
16000.0	559.5	-10.9	-28.4	72.0	743.0	631.0	300.6	16.3	1.000169
16500.0	548.5	-12.0	-29.3	72.0	731.5	629.7	299.9	16.6	1.000166
17000.0	537.7	-13.3	-30.1	72.8	720.7	628.1	299.5	16.9	1.000163
17500.0	527.0	-14.7	-30.8	73.9	710.1	626.4	298.7	17.7	1.000161
18000.0	516.5	-16.1	-31.5	75.1	699.8	624.7	298.0	18.6	1.000158
18500.0	506.2	-17.5	-32.2	76.3	689.7	622.9	296.3	19.4	1.000156
19000.0	496.0	-18.9	-31.6	71.3	679.4	621.3	294.5	20.1	1.000154
19500.0	486.0	-20.1	-29.6	72.3	669.8	619.8	292.6	21.2	1.000152
20000.0	476.0	-21.4	-30.8	72.1	659.4	618.2	289.7	22.4	1.000149
20500.0	466.1	-22.7	-32.2	71.2	649.1	616.6	289.4	23.8	1.000147
21000.0	456.5	-24.0	-33.6	70.3	639.0	615.1	288.3	25.1	1.000144
21500.0	447.1	-25.3	-35.0	79.4	628.1	613.5	287.0	26.3	1.000142
22000.0	437.9	-26.5	-36.4	78.5	618.4	611.9	285.6	27.3	1.000139
22500.0	428.8	-27.8	-37.8	77.6	608.8	610.3	283.0	28.1	1.000137
23000.0	419.9	-29.1	-38.1	71.1	599.3	608.6	280.0	28.8	1.000135
23500.0	411.0	-30.5	-37.2	71.6	590.0	606.9	277.6	29.7	1.000133

UPPER AIR DATA
050000Z
JALLEN

STATION ALTITUDE 4051.00 FEET "SL"
28 FEB. 54
1215 "HRS" MST

ASCENSION NO. 23

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 12 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AT "D" POINT DEGREES CENTIGRADE	REL. HUM. P'CENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION ALGREGS(TN)	SPEED KNOTS	INDEX OF REFRACTION
24000.0	402.3	-71.9	62.2	580.9	605.1	275.5	30.8	1.000111
24500.0	393.7	-73.4	67.6	572.1	603.2	273.1	32.0	1.000129
25000.0	385.3	-74.3	57.5	561.8	602.2	270.4	33.5	1.000126
25500.0	377.0	-75.1	47.4	551.6	601.1	269.3	35.0	1.000124
26000.0	368.8	-76.0	42.9	541.8	600.0	270.2	36.4	1.000121
26500.0	360.9	-76.9	40.2	532.1	598.8	271.0	37.7	1.000119
27000.0	353.0	-77.9	32.0**	522.6	597.6	275.3	38.8	1.000117
27500.0	345.2	-78.9	32.0**	517.4	596.2	277.2	40.0	1.000115
28000.0	337.5	-80.0	31.7	504.3	594.9	275.0	41.4	1.000113
28500.0	330.1	-81.1	21.8**	495.4	593.5	274.4	42.6	1.000111
29000.0	322.7	-82.1	16.7**	486.7	592.1	272.0	43.6	1.000109
29500.0	315.6	-83.2	11.6**	479.1	590.8	271.7	44.7	1.000107
30000.0	308.6	-84.3	6.5**	469.7	589.4	271.4	46.1	1.000105
31500.0	301.8	-85.3	1.3**	461.4	588.0	271.2	47.9	1.000103
32000.0	294.9	-86.5		453.3	586.5	270.9	50.5	1.000101
32500.0	288.1	-87.8		445.3	584.9	270.6	53.0	1.000099
33000.0	281.5	-89.0		437.5	583.2	270.1	55.1	1.000097
33500.0	275.0	-90.3		429.8	581.6	269.7	57.3	1.000096
34000.0	268.7	-91.5		422.3	580.0	269.6	59.6	1.000094
34500.0	262.5	-92.8		414.9	578.3	269.5	62.0	1.000092
35000.0	256.4	-94.0		407.7	576.7	269.9	64.4	1.000091
35500.0	250.5	-95.3		400.6	575.0	270.3	66.8	1.000089
36000.0	244.6	-96.5		393.2	573.5	270.5	68.8	1.000088
36500.0	238.8	-97.6		385.9	571.9	270.2	70.8	1.000086
37000.0	233.1	-98.8		378.8	570.4	270.2	69.6	1.000084
37500.0	227.5	-100.0		371.8	568.8	269.5	67.9	1.000083
38000.0	222.1	-101.0		364.7	567.4	269.1	65.0	1.000081
38500.0	216.7	-101.7		357.1	566.4	268.5	61.9	1.000080
39000.0	211.4	-102.4		349.6	565.5	268.2	61.1	1.000078
39500.0	206.3	-103.0		341.9	564.8	267.9	61.7	1.000076
40000.0	201.3	-103.9		330.5	563.5	267.7	62.2	1.000074
40500.0	196.5	-104.2		320.0	562.8	267.7	62.4	1.000071
41000.0	191.8	-104.5		311.2	562.0	268.0	62.3	1.000069
41500.0	187.2	-104.6		302.9	561.7	269.0	61.7	1.000068
42000.0	182.8	-104.7		294.6	562.7	268.5	60.9	1.000066
42500.0	178.4	-104.8		287.8	562.5	269.1	59.6	1.000064
43000.0	174.2	-104.9		281.2	562.3	269.1	58.7	1.000063
43500.0	170.1	-105.0		274.7	562.1	270.0	59.0	1.000061
44000.0	166.0	-105.1		269.1	562.2	270.9	59.9	1.000060
44500.0	162.1	-105.2		261.7	562.3	271.8	63.3	1.000058

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

STATION ALTITUDE 4051.0 FEET "SL
26 FEB. 84 1215 HRS MST
ASCENSION NO. 23

UPPER AIR DATA
US9000027
JALLEN

GEODETTIC COORDINATES
33.16712 LAT NEG
106.49511 LON DEG

TABLE 12 Con't

GLOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DWPOINT CENTIGRADE					DIRECTION DEGREES(TN)	SPEED KNOTS	
4400.0	158.3	-57.3			255.5	572.3		272.6	66.6	1.000057
4450.0	154.5	-57.3			249.3	572.4		271.6	67.7	1.000056
4500.0	150.8	-57.2			243.4	572.5		270.7	68.7	1.000054
4550.0	147.3	-56.7			237.0	573.2		271.8	67.2	1.000053
4600.0	143.8	-56.0			230.7	574.0		273.5	64.9	1.000051
4650.0	140.4	-55.7			224.9	574.5		275.7	62.6	1.000050
4700.0	137.1	-56.5			220.4	573.4		278.3	60.2	1.000049
4750.0	133.8	-57.3			216.0	572.3		281.2	58.0	1.000048
4800.0	130.6	-58.2			211.7	571.2		281.9	55.3	1.000047
4850.0	127.5	-59.0			207.4	570.1		282.6	52.7	1.000046
4900.0	124.5	-59.8			203.3	569.0		282.1	50.3	1.000045
4950.0	121.5	-60.7			199.2	567.9		280.6	48.3	1.000044
5000.0	118.6	-61.0			194.7	567.4		279.0	46.5	1.000043
5050.0	115.7	-61.1			190.2	567.2		278.0	45.7	1.000042
5100.0	112.9	-61.3			185.7	567.1		277.0	44.9	1.000041
5150.0	110.2	-61.4			181.3	566.9		276.2	41.2	1.000040
5200.0	107.5	-61.6			177.1	566.7		280.7	36.8	1.000039
5250.0	104.9	-61.7			172.9	566.5		282.4	32.8	1.000039
5300.0	102.4	-61.9			168.9	566.3		284.3	29.1	1.000038
5350.0	99.9	-62.0			164.9	566.1		286.4	25.9	1.000037
5400.0	97.5	-62.3			161.1	565.7		285.3	26.9	1.000036
5450.0	95.1	-62.6			157.4	565.3		284.2	27.9	1.000035
5500.0	92.8	-62.9			153.8	564.9		281.6	27.1	1.000034
5550.0	90.6	-63.2			150.3	564.5		277.8	25.7	1.000033
5600.0	88.4	-63.5			146.8	564.1		273.0	24.0	1.000033
5650.0	86.2	-63.8			143.5	563.7		270.3	21.5	1.000032
5700.0	84.1	-63.7			139.9	563.8		265.8	19.0	1.000031
5750.0	82.1	-63.4			136.3	564.2		264.0	16.9	1.000030
5800.0	80.1	-63.1			132.8	564.7		262.4	14.8	1.000030
5850.0	78.1	-62.8			129.4	565.1		259.0	13.6	1.000029
5900.0	76.3	-62.5			126.1	565.5		254.5	12.8	1.000028
5950.0	74.4	-62.2			122.8	565.9		250.2	12.4	1.000027
6000.0	72.6	-61.9			119.7	566.3		246.7	12.6	1.000027
6050.0	70.8	-61.5			116.6	566.7		245.2	12.2	1.000026
6100.0	69.1	-61.3			113.7	567.0		249.0	10.6	1.000025
6150.0	67.5	-61.2			110.9	567.2		254.2	9.0	1.000025
6200.0	65.8	-61.0			108.1	567.4		261.5	8.2	1.000024
6250.0	64.3	-60.9			105.5	567.6		270.2	7.6	1.000023
6300.0	62.7	-60.7			102.9	567.8		277.3	7.0	1.000023
6350.0	61.2	-60.6			100.3	568.0		283.4	6.3	1.000022

STATION ALTITUDE 4051.00 FEET MSL
26 FEB. 84 1215 HRS MST
ASCENSION NO. 23

UPPER AIR DATA
0590 30023
JALLFN

GEODETIC COORDINATES
31.16712 LAT DEG
106.49511 LON DEG

TABLE 12 Con't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
64000.0	59.8	-60.4		97.8	568.2	292.1	5.6	1.000022
64500.0	56.3	-60.3		95.4	568.4	315.9	4.0	1.000021
65000.0	56.9	-60.1		93.1	568.6	351.1	3.7	1.000021
65500.0	55.6	-60.0		90.8	568.8	22.0	4.3	1.000020
66000.0	54.2	-59.8		88.5	569.0	47.5	5.5	1.000020
66500.0	52.9	-59.7		86.3	569.2	54.0	7.0	1.000019
67000.0	51.6	-59.5		84.2	569.4	64.5	8.9	1.000019
67500.0	50.4	-59.4		82.1	569.6	70.6	11.0	1.000018
68000.0	49.2	-59.2		80.1	569.9	72.1	12.4	1.000018
68500.0	48.0	-59.0		78.1	570.1	72.8	13.4	1.000017
69000.0	46.9	-58.6		76.2	570.4	72.3	13.8	1.000017
69500.0	45.8	-58.6		74.4	570.6	70.1	13.2	1.000017
70000.0	44.7	-58.4		72.5	570.8	68.1	12.7	1.000016
70500.0	43.6	-58.3		70.7	571.1	70.4	14.3	1.000016
71000.0	42.6	-58.1		69.0	571.3	72.2	16.0	1.000015
71500.0	41.6	-57.9		67.3	571.6	73.6	17.2	1.000015
72000.0	40.6	-57.7		65.7	571.8	74.8	18.4	1.000015
72500.0	39.6	-57.5		64.0	572.1	76.8	20.4	1.000014
73000.0	38.7	-57.3		62.5	572.3	79.4	23.9	1.000014
73500.0	37.8	-57.2		60.9	572.5	81.1	27.0	1.000014
74000.0	36.9	-57.0		59.4	572.8	80.1	27.0	1.000013
74500.0	36.0	-57.1		58.1	572.7	79.5	26.9	1.000013
75000.0	35.2	-57.1		56.7	572.6	77.2	24.7	1.000013
75500.0	34.3	-57.1		55.4	572.6	71.6	21.7	1.000012
76000.0	33.5	-57.2		54.1	572.5	71.1	20.2	1.000012
76500.0	32.7	-57.2		52.8	572.5	74.3	23.3	1.000012
77000.0	32.0	-57.3		51.6	572.4	76.7	26.4	1.000011
77500.0	31.2	-57.3		50.4	572.3	80.0	29.6	1.000011
78000.0	30.5	-57.4		49.2	572.3	82.9	33.0	1.000011
78500.0	29.7	-57.4		48.0	572.3	85.2	35.1	1.000011
79000.0	29.0	-57.2		46.9	572.5	87.2	34.6	1.000010
79500.0	28.4	-57.1		45.7	572.7	89.2	34.2	1.000010
80000.0	27.7	-56.9		44.6	572.8	89.4	34.3	1.000010
80500.0	27.0	-56.8		43.5	573.0	89.7	34.4	1.000010
81000.0	26.4	-56.7		42.5	573.2	89.6	35.0	1.000009
81500.0	25.8	-56.5		41.5	573.4	89.1	36.1	1.000009
82000.0	25.2	-56.4		40.5	573.5	88.7	37.2	1.000009
82500.0	24.6	-56.3		39.5	573.7	89.1	38.4	1.000009
83000.0	24.0	-56.1		38.5	573.9	89.5	39.5	1.000009
83500.0	23.4	-56.0		37.6	574.1	89.8	40.2	1.000008

STATION ALTITUDE 4051.00 FEET MSL
 28 FEB. 84 1215 WKS MST
 ASCENSION NO. 23

UPPER AIR DATA
 U5900'0023
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LONG DEG

TABLE 12 Con't

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
84000.0	22.9	-55.9			36.7	574.3	89.9	40.2	1.000008
84500.0	22.4	-55.7			35.8	574.4	90.0	40.2	1.000008
85000.0	21.8	-55.6			35.0	574.6	89.7	41.1	1.000008
85500.0	21.3	-55.5			34.1	574.8	89.4	42.1	1.000008
86000.0	20.8	-55.3			33.3	575.0	89.5	42.6	1.000007
86500.0	20.3	-55.2			32.5	575.2	90.7	42.3	1.000007
87000.0	19.9	-55.1			31.7	575.3	91.0	42.0	1.000007
87500.0	19.4	-54.9			31.0	575.5	91.3	42.2	1.000007
88000.0	18.9	-54.8			30.2	575.6	91.6	42.4	1.000007
88500.0	18.5	-54.7			29.5	575.8			1.000007
89000.0	18.1	-54.6			28.8	576.0			1.000006
89500.0	17.6	-54.5			28.1	575.1			1.000006
90000.0	17.2	-54.3							1.000006

STATION ALTITUDE 4051.00 FEET MSL
28 FEB. 54
ASCENSION NO. 23

MANDATORY LEVELS
US90070023
JALLEN

GEODETTIC COORDINATES
31.16712 LAT DEG
106.49511 LON DEG

TABLE 13

MILLIBARS	PRESSURE GEOPOTENTIAL FEET	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DATA	
				DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	5095.	4.0	31.	175.6	5.3
800.0	6701.	1.6	30.	197.2	5.5
750.0	8403.	1.2	22.	266.2	7.2
700.0	10216.	-1.4	27.	283.8	9.2
650.0	12147.	-3.5	23.	314.0	10.1
600.0	14709.	-7.1	22.	305.9	14.8
550.0	16415.	-11.9	22.	300.0	16.6
500.0	18780.	-18.4	27.	295.2	19.8
450.0	21327.	-24.9	40.	287.4	25.9
400.0	24097.	-32.3	65.	275.0	31.0
350.0	27169.	-38.3	35.**	276.5	39.2
300.0	30573.	-45.6		271.1	48.5
250.0	34474.	-55.4		270.4	67.0
200.0	39045.	-60.4		267.7	62.2
175.0	41904.	-57.3		268.0	58.7
150.0	45000.	-57.2		270.5	68.9
125.0	48784.	-59.7		282.4	50.7
100.0	53729.	-62.0		286.5	25.9
80.0	57832.	-63.1		262.4	14.8
70.0	60538.	-61.4		246.7	11.5
60.0	63682.	-60.4		289.2	5.9
50.0	67419.	-59.3		71.9	11.6
40.0	72023.	-57.6		75.4	19.0
30.0	77992.	-57.4		84.3	34.9
25.0	81762.	-56.4		88.7	37.5
20.0	86444.	-55.1		90.7	42.1

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

END

FILMED

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