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12831D LANCE MISSILE NUMBER 3306, ROUND NUMBER 323 ESL (2 NOVEM--ETC(U)
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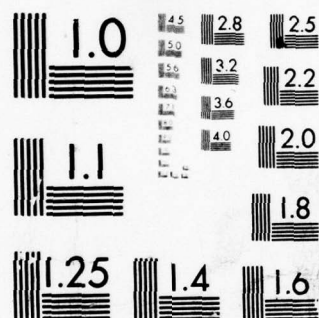
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METEOROLOGICAL DATA REPORT

12831D LANCE
MISSILE NO. 3306, ROUND NO. 323 ESL
(2 NOVEMBER 1978)

BY

WSMR METEOROLOGICAL TEAM

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ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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UNITED STATES ARMY ELECTRONICS COMMAND

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1. REPORT NUMBER DR-982	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 12831D LANCE MISSILE NO. 3306, ROUND NO. 323 ESL (2 November 1978). Number Number		5. TYPE OF REPORT & PERIOD COVERED
7. AUTHOR(s) WSMR METEOROLOGICAL TEAM		8. CONTRACT OR GRANT NUMBER(s) DA TASK 1T665702D127-02 (16) (17) 021
9. PERFORMING ORGANIZATION NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS US ARMY ELECTRONICS COMMAND ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO		12. REPORT DATE MARCH 1979
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US ARMY ELECTRONICS COMMAND FT. MONMOUTH, NEW JERSEY		13. NUMBER OF PAGES 35
16. DISTRIBUTION STATEMENT (of this Report) APPROVED FOR PUBLIC RELEASE: DISTRIBUTION UNLIMITED		15. SECURITY CLASS. (of this report) UNCLASSIFIED
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) (14) ECOM-DR-982		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
18. SUPPLEMENTARY NOTES (9) Meteorological data rept.		ACCESSION NO. DTIC Write Section ☒ DDC Draft Section ☐ UNANNOUNCED ☐ JUSTIFICATION BY DISTRIBUTION/AVAILABILITY CODES Dist. AVAIL. and/or SPECIAL A
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) 1. BALLISTICS 2. METEOROLOGY 3. WIND		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) METEOROLOGICAL DATA GATHERED FOR THE LAUNCHING OF 12831D LANCE, MISSILE NUMBER 3306, ROUND NUMBER 323 ESL, ARE PRESENTED IN TABULAR FORM. 400 844		

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8. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)	
9. DISTRIBUTION STATEMENT (If different from 6)	
10. SUBJECT TERMS	
11. ABSTRACT	
12. NOTES	
13. REFERENCES	
14. DISTRIBUTION STATEMENT (If different from 6)	
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INTRODUCTION

12831D Lance, Missile Number 3306, Round Number 323 ESL, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1006 HRS MST, 2 November 1978. The scheduled launched time was 1000 HRS MST.

DISCUSSION

Meteorological data were recorded and reduced by the WSMR Meteorological Team, Atmospheric Sciences Laboratory (ASL), WSMR, New Mexico. The data are presented in the following tabulations.

ELEVATION	3989	FEET/MSL
PRESSURE	889.2	MBS
TEMPERATURE	17.8	°C
RELATIVE HUMIDITY	74	%
DEW POINT	13.1	°C
DENSITY	1055	GM/M ³
WIND SPEED	CALM	MPH
WIND DIRECTION	CALM	DEGREES
CLOUD COVER	10	Sc

TABLE I. SURFACE OBSERVATION TAKEN AT LC-33
1010 HRS MST/2 NOVEMBER 1978.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	000	00
100	300	02
200	300	05
300	300	07
400	300	09
500	300	11
600	305	11
700	310	10
800	315	10
900	320	10
1000	325	10
1100	325	12
1200	325	14
1300	325	17
1400	325	19
1500	325	21
1600	324	21
1700	323	21
1800	322	21
1900	321	21
2000	320	21

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
2100	323	20
2200	326	20
2300	329	19
2400	332	19
2500	335	19
2600	337	19
2700	339	19
2800	341	20
2900	343	21
3000	345	21
3100	BALLOON LOST	IN CLOUDS
3200		
3300		
3400		
3500		
2600		
3700		
3800		
3900		
4000		
4100		

TABLE II. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO.1
RELEASED FROM LC-33, AT 1000 HRS MST/2 NOVEMBER 1978
12831D LANCE, MISSILE NO. 3306, ROUND NO. 323 ESL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,302.67 Y = 185,283.13 Z = 3,989.47

APPROXIMATELY: 1 MILE SOUTH OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	000	00
100	255	02
200	255	04
300	255	06
400	255	08
500	255	10
600	254	09
700	253	08
800	252	08
900	251	07
1000	250	06
1100	260	06
1200	270	07
1300	280	07
1400	290	07
1500	300	08
1600	307	08
1700	314	09
1800	321	09
1900	328	10
2000	335	10

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
2100	335	10
2200	335	09
2300	335	09
2400	335	08
2500	335	08
2600	336	08
2700	337	08
2800	338	08
2900	339	08
3000	340	08
3100	BALLOON LOST IN CLOUDS	
3200		
3300		
3400		
3500		
3600		
3700		
3800		
3900		
4000		
4100		

TABLE III. PILOT-BALLOON MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM LC-33, AT 1010 HRS MST/2 NOVEMBER 1978
12831D LANCE, MISSILE NO. 3306, ROUND NO. 323 ESL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,302.67 Y = 185,283.13 Z = 3,989,47

APPROXIMATELY: 1 MILE SOUTH OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

T-TIME (SEC)	SPEED (MPH)	DIR DEG
-20		CALM
-10		CALM
-00		CALM
+10		CALM
+20		CALM
+30		CALM

TABLE IV. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE NO. 1
RELEASED FROM LC-33, AT 1010 HRS MST/2 NOVEMBER 1978
12831D LANCE/ROUND NUMBER 323 ESL

WSTM COORDINATES X = 485,874.29 Y = 185,958.90 Z = 4,018.74

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

T-TIME (SEC)	SPEED (MPH)	DIR DEG
-30		CALM
-20		CALM
-10		CALM
-00		CALM
+10		CALM
+20		CALM
+30		CALM

TABLE V. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE NO. 2
RELEASED FROM LC-33 AT 1010 HRS MST/2 NOVEMBER 1978
12831D LANCE/ROUND NUMBER 323 ESL

WSTM COORDINATES X = 485,874.93 Y = 186,012.00 Z = 4,033.57

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

T-TIME (SEC)	SPEED (MPH)	DIR DEG
-30		CALM
-20		CALM
-10		CALM
-00		CALM
+10		CALM
+20		CALM
+30		CALM

TABLE VI. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE NO. 3
RELEASED FROM LC-33, AT 1010 HRS MST/2 NOVEMBER 1978
12831D LANCE/ROUND NUMBER 323 ESL

WSTM COORDINATES X = 485,877.29 Y = 186,116.06 Z = 4,063.92

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

GEODETIC COORDINATES
 32°41'04.3 LAT DEG
 100°37'03.3 LON DEG

SIGNIFICANT LEVEL DATA
 306302J717
 WHITE SANDS
 TABLE VII.

STATION ALTITUDE 3989.00 FEET MSL
 2 NOV. 78
 ASCENSION NO. 717

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
887.1	16.1	12.1	77.0
850.0	13.5	9.7	78.0
800.2	12.2	8.3	77.0
768.6	9.7	8.6	93.0
703.0	6.5	5.3	92.0
679.0	4.9	3.2	89.0
670.5	5.3	.1	69.0
661.2	4.7	-4.6	51.0
613.5	.5	-18.2	23.0
605.1	2.0	-26.4	16.0
590.6	2.0	-25.3	11.0
565.4	-6.6	-25.6	13.0
500.0	-9.5	-31.2	15.0
463.4	-14.2	-33.8	17.0
441.4	-15.5	-34.9	17.0
400.0	-21.6	-36.7	24.0
372.6	-25.6	-42.8	18.0
353.0	-27.5	-44.4	18.0
334.0	-30.4	-42.9	28.0
300.0	-36.8	-49.2	26.0
250.0	-46.2		
227.6	-51.3		
200.0	-55.9		
175.3	-61.5		
150.0	-64.0		
144.4	-64.4		
136.6	-61.2		
121.2	-65.2		
111.8	-63.3		
100.0	-65.1		

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STATION ALTITUDE 3989.00 FEET MSL
 2 NOV. 78
 ASCENSION NO. 717

SIGNIFICANT LEVEL DATA
 3060020717
 WHITE SANDS

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

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PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR	DEWPOINT DEGREES CENTIGRADE	
73.8 6060.2	-38.8		
70.3 6173.5	-44.7		
56.2 6419.0	-35.1		
50.0 6852.6	-42.6		
39.8 7324.5	-56.2		
32.0 7917.7	-56.8		
20.0 8706.4	-50.4		
16.9 9147.5	-46.6		

UPPER AIR DATA
3060020717
WHITE SANDS
TABLE VIII.

STATION ALTITUDE 3999.00 FEET MSL
2 NOV. 78 : 950 HRS MST
ASCENSION NO. 717

GEOMETRIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
3999.0	887.1	16.1	12.1	77.0	1562.3	664.6	0.0	..	1.000301
4000.0	886.7	16.1	12.0	77.0	1561.7	664.5	153.1	..	1.000301
4500.0	871.0	15.0	11.1	77.4	1047.0	663.2	153.1	2.8	1.000294
5000.0	855.5	13.9	10.1	77.6	1032.6	661.8	153.1	5.5	1.000287
5500.0	840.2	13.3	9.5	77.8	1016.5	661.1	153.1	8.2	1.000281
6000.0	825.1	12.9	9.0	77.5	999.7	660.6	153.1	10.6	1.000276
6500.0	810.4	12.5	8.6	77.2	983.2	660.1	161.9	12.9	1.000271
7000.0	795.8	11.9	8.4	79.2	967.6	659.4	161.9	14.3	1.000267
7500.0	781.5	10.7	8.6	86.4	953.8	658.2	158.9	15.0	1.000265
8000.0	767.4	9.6	8.6	93.0	940.1	656.9	163.2	15.2	1.000262
8500.0	753.4	9.0	7.9	92.8	925.2	656.2	170.1	15.3	1.000257
9000.0	739.7	8.4	7.3	92.6	910.5	655.4	179.3	16.3	1.000252
9500.0	726.2	7.9	6.6	92.4	896.0	654.6	186.9	17.7	1.000247
10000.0	713.0	7.1	6.0	92.2	881.8	653.8	192.6	18.9	1.000241
10500.0	700.0	6.5	5.3	92.0	867.8	653.1	197.9	20.2	1.000237
11000.0	687.1	5.5	4.0	90.2	855.1	651.8	200.0	22.2	1.000230
11500.0	674.5	5.1	1.8	79.3	841.2	651.1	216.3	24.6	1.000221
12000.0	662.1	4.8	-4.1	52.8	827.8	650.3	223.3	27.4	1.000217
12500.0	649.7	3.7	-7.2	44.5	815.8	648.9	226.6	29.9	1.000199
13000.0	637.6	2.7	-10.4	37.4	804.0	647.5	226.1	31.4	1.000193
13500.0	625.8	1.6	-13.9	30.4	792.4	646.2	224.3	31.8	1.000187
14000.0	614.1	.6	-19.0	23.4	780.9	644.8	221.9	31.5	1.000181
14500.0	602.6	2.0	-26.2	13.2	762.6	646.4	221.4	27.8	1.000173
15000.0	591.3	2.0	-35.4	10.9	748.3	646.4	221.5	27.8	1.000171
15500.0	580.2	.9	-35.4	11.8	737.1	645.1	224.8	26.4	1.000169
16000.0	569.3	-0.2	-35.5	12.7	726.2	643.8	223.5	25.4	1.000166
16500.0	558.5	-1.5	-26.1	13.2	715.9	642.3	232.5	25.8	1.000163
17000.0	547.8	-2.9	-27.5	13.5	705.8	640.6	235.5	26.2	1.000161
17500.0	537.3	-4.3	-27.9	13.3	695.9	638.9	234.6	26.3	1.000158
18000.0	527.0	-5.7	-28.7	14.1	680.2	637.3	236.3	26.3	1.000156

STATION ALTITUDE 3989.00 FEET MSL
2 NOV. 78
ASCENSION NO. 717

UPPER AIR DATA
3000040717
WHITE SANDS

GEODETIC COORDINATES
32.42343 LAT DEG
106.37033 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	REL. HUMID. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
18500.0	516.9	-7.1	-29.7	14.5	576.6	635.6	241.0	26.4	1.000153
19000.0	507.0	-8.5	-30.6	14.8	667.1	633.9	243.0	27.5	1.000151
19500.0	497.2	-9.8	-31.4	15.1	657.6	632.3	243.8	28.0	1.000149
20000.0	487.4	-11.1	-32.1	15.7	647.7	630.8	244.3	32.5	1.000147
20500.0	477.8	-12.3	-32.7	16.2	638.0	629.3	244.6	35.0	1.000144
21000.0	468.5	-13.5	-33.4	16.7	629.4	627.8	244.5	36.4	1.000142
21500.0	459.2	-14.4	-34.0	17.0	619.2	626.7	244.6	37.1	1.000140
22000.0	450.1	-15.0	-34.5	17.0	607.1	626.0	244.7	37.7	1.000137
22500.0	441.1	-15.5	-34.9	17.0	596.4	625.4	244.9	38.3	1.000135
23000.0	432.2	-16.8	-35.2	18.5	587.2	623.8	245.8	39.4	1.000133
23500.0	423.5	-18.1	-35.5	19.9	578.2	622.3	248.8	40.5	1.000131
24000.0	415.0	-19.3	-35.9	21.4	569.4	620.7	251.1	42.4	1.000128
24500.0	406.6	-20.6	-36.3	22.6	560.7	619.2	251.1	44.1	1.000126
25000.0	399.4	-21.8	-37.0	23.7	552.0	617.7	251.4	44.7	1.000124
25500.0	393.2	-23.0	-38.8	21.9	543.2	616.2	251.4	45.3	1.000122
26000.0	382.1	-24.2	-40.6	20.1	534.6	614.8	251.2	45.7	1.000120
26500.0	374.3	-25.3	-42.4	18.4	526.1	613.3	249.9	46.6	1.000118
27000.0	366.5	-26.2	-43.3	18.0	516.9	612.3	240.4	46.0	1.000116
27500.0	358.9	-26.9	-43.9	18.0	507.7	611.4	247.6	48.0	1.000114
28000.0	351.4	-27.7	-44.2	18.8	498.7	610.3	247.3	47.1	1.000112
28500.0	344.0	-28.9	-43.5	22.7	490.5	609.0	243.0	46.5	1.000110
29000.0	336.8	-30.0	-43.2	26.5	482.4	607.6	249.2	46.1	1.000108
29500.0	329.6	-31.2	-43.7	27.2	474.5	606.0	250.1	46.4	1.000106
30000.0	322.6	-32.5	-44.9	27.4	466.8	604.4	250.9	46.9	1.000105
30500.0	315.7	-33.8	-46.2	26.9	459.3	602.8	251.8	47.1	1.000103
31000.0	308.9	-35.1	-47.5	26.5	451.9	601.2	252.8	47.0	1.000101
31500.0	302.3	-36.2	-48.6	26.1	444.7	599.5	252.8	48.1	1.000100
32000.0	295.7	-37.5	-50.6	23.9	437.7	598.0	252.2	49.9	1.000098
32500.0	289.1	-38.7	-52.8	20.7	429.6	596.5	251.8	52.1	1.000096
33000.0	282.7	-39.9	-55.1	17.5	422.2	595.1	251.6	54.5	1.000094

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

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UPPER AIR DATA
 366020717
 WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
 2 NOV. 78
 1950 HRS MST
 ASCENSION NO. 717

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DELAPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPED KNOTS	INDEX OF REFRACTION
33500.0	276.5	-41.3	14.400	414.9	593.6	251.5	56.2	1.000093
34000.0	270.4	-42.2	11.200	407.7	592.1	251.8	56.6	1.000091
34500.0	264.4	-43.3	8.000	400.7	590.6	251.8	57.2	1.000089
35000.0	258.5	-44.5	4.800	393.8	589.1	251.1	58.1	1.000088
35500.0	252.8	-45.6	1.600	387.1	587.6	250.4	59.3	1.000086
36000.0	247.1	-46.8		380.3	586.1	250.4	63.2	1.000085
36500.0	241.5	-48.0		373.6	584.6	250.4	66.9	1.000083
37000.0	236.0	-49.2		367.0	583.1	250.7	68.8	1.000082
37500.0	230.6	-50.3		360.5	581.5	250.9	70.8	1.000080
38000.0	225.3	-51.4		353.9	580.1	250.3	72.3	1.000079
38500.0	220.0	-52.3		347.0	579.0	249.5	73.8	1.000077
39000.0	214.9	-53.2		340.3	577.6	248.7	74.7	1.000076
39500.0	209.9	-54.1		333.8	576.6	247.7	75.3	1.000074
40000.0	205.0	-55.0		327.3	575.5	246.7	75.2	1.000073
40500.0	200.2	-55.9		321.0	574.3	245.6	73.8	1.000071
41000.0	195.5	-56.9		314.8	572.9	244.5	72.7	1.000070
41500.0	190.8	-57.9		308.8	571.6	243.6	73.2	1.000069
42000.0	186.2	-58.9		302.9	570.2	242.7	73.3	1.000067
42500.0	181.8	-60.0		297.1	568.8	242.7	75.7	1.000066
43000.0	177.5	-61.0		291.4	567.5	243.0	77.9	1.000065
43500.0	173.2	-61.7		285.3	566.5	243.5	79.5	1.000064
44000.0	169.0	-62.1		278.9	566.0	244.4	77.9	1.000062
44500.0	164.9	-62.5		272.6	565.4	245.3	76.5	1.000061
45000.0	160.9	-62.9		266.5	564.9	246.1	71.6	1.000059
45500.0	156.9	-63.3		260.5	564.4	247.0	66.7	1.000058
46000.0	153.1	-63.7		254.7	563.9	247.1	62.6	1.000057
46500.0	149.4	-64.0		248.9	563.4	247.0	58.8	1.000055
47000.0	145.7	-64.3		243.1	563.0	246.4	55.7	1.000054
47500.0	142.2	-63.5		236.3	564.1	244.9	53.7	1.000053
48000.0	138.7	-62.1		229.1	566.0	243.3	51.9	1.000051

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

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UPPER AIR DATA
3060040717
WHITE SANDS

STATION ALTITUDE 3969.00 FEET MSL
2 NOV. 78 0050 HRS MST
ASCENSION NO. 717

GEOCLTIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

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 CENTIGRADE	DEAPOINT CENTIGRADE			KNOTS	KNOTS			
48500.0	135.4	-61.5			222.8	566.8		241.3	50.0	1.000052
49000.0	132.1	-62.3			219.2	565.7		239.0	44.2	1.000049
49500.0	128.9	-63.2			213.8	564.6		237.2	46.1	1.000048
50000.0	125.7	-64.0			209.4	563.4		236.8	43.1	1.000047
50500.0	122.7	-64.8			205.1	562.3		236.4	40.1	1.000046
51000.0	119.7	-64.9			200.8	562.2		236.5	37.0	1.000045
51500.0	116.7	-64.4			194.8	562.9		241.9	34.0	1.000043
52000.0	113.9	-63.9			189.4	563.6		245.3	31.6	1.000042
52500.0	111.1	-63.4			184.5	564.3		247.6	30.3	1.000041
53000.0	108.4	-63.7			180.2	563.8		250.1	29.0	1.000040
53500.0	105.7	-64.1			176.2	563.2		250.2	27.9	1.000039
54000.0	103.1	-64.6			172.2	562.7		248.6	26.9	1.000038
54500.0	100.6	-65.0			168.4	562.1		246.9	25.8	1.000038
55000.0	98.1	-65.3			164.5	561.6		244.9	25.6	1.000037
55500.0	95.7	-65.6			160.7	561.2		242.9	25.4	1.000036
56000.0	93.3	-65.9			156.9	560.8		241.3	25.2	1.000035
56500.0	91.0	-66.2			153.2	560.4		241.0	25.1	1.000034
57000.0	88.8	-66.6			149.7	560.0		240.8	25.0	1.000033
57500.0	86.6	-66.9			146.2	559.5		241.5	24.4	1.000033
58000.0	84.4	-67.2			142.8	559.1		243.5	23.2	1.000032
58500.0	82.3	-67.5			139.4	558.7		243.6	22.1	1.000031
59000.0	80.3	-67.9			135.2	558.3		243.4	21.0	1.000031
59500.0	78.3	-68.1			133.0	557.9		252.1	18.0	1.000030
60000.0	76.4	-68.4			129.9	557.5		256.7	16.0	1.000029
60500.0	74.5	-68.7			126.9	557.1		260.8	13.4	1.000028
61000.0	72.6	-69.6			123.1	558.0		266.2	10.8	1.000027
61500.0	70.8	-69.6			118.9	561.2		275.0	8.3	1.000026
62000.0	69.1	-64.7			115.5	562.4		293.1	7.9	1.000026
62500.0	67.4	-64.8			112.7	562.4		311.1	8.4	1.000025
63000.0	65.7	-64.8			109.9	562.3		325.5	9.2	1.000024

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UPPER AIR DATA
 306002717
 WHITE SANDS

STATION ALTITUDE 3900.00 FEET MSL
 2 NOV. 78
 ASCENSION NO. 717

GFODETIC COORDINATES
 32.4043 LAT DEG
 106.3733 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT DEGREES	R-L HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
63500.0	64.1	-64.9			107.3	562.3	336.1	7.8	1.000324
64000.0	62.6	-64.9			104.6	562.2	350.8	6.7	1.000023
64500.0	61.0	-64.9			102.1	562.1	8.2	5.8	1.000023
65000.0	59.5	-65.0			99.6	562.1	22.5	4.2	1.000122
65500.0	58.1	-65.0			97.2	562.0	69.8	4.0	1.000022
66000.0	56.6	-65.1			94.8	561.9	83.9	4.3	1.000121
66500.0	55.3	-64.7			92.4	562.4	73.9	3.8	1.000121
67000.0	53.9	-64.2			89.9	563.1	62.5	3.4	1.000121
67500.0	52.6	-63.7			87.5	563.4	50.3	3.7	1.000119
68000.0	51.3	-63.2			85.1	564.5	41.7	4.4	1.000019
68500.0	50.1	-62.6			82.8	565.3	35.6	5.2	1.000018
69000.0	48.9	-62.0			80.4	566.2	28.8	5.9	1.000018
69500.0	47.7	-61.3			78.4	567.1	23.2	6.6	1.000017
70000.0	46.6	-60.6			76.3	568.0	18.9	7.3	1.000017
70500.0	45.5	-59.9			74.3	568.9	17.5	7.3	1.000017
71000.0	44.4	-59.2			72.3	569.8	16.2	8.3	1.000016
71500.0	43.3	-58.6			70.3	570.7	17.5	8.7	1.000016
72000.0	42.3	-57.9			68.4	571.6	3.5	8.3	1.000015
72500.0	41.3	-57.2			66.6	572.5	354.1	9.1	1.000015
73000.0	40.3	-56.5			64.8	573.4	352.3	9.4	1.000014
73500.0	39.3	-56.2			63.2	573.8	353.9	9.5	1.000014
74000.0	38.4	-56.3			61.7	573.7	355.4	9.6	1.000014
74500.0	37.5	-56.3			60.2	573.7	354.6	9.5	1.000013
75000.0	36.6	-56.4			58.8	573.6	349.4	9.2	1.000013
75500.0	35.7	-56.4			57.5	573.5	343.9	9.0	1.000013
76000.0	34.9	-56.5			56.1	573.5	338.2	8.9	1.000012
76500.0	34.1	-56.5			54.8	573.4	330.2	9.5	1.000012
77000.0	33.3	-56.6			53.5	573.3	322.2	10.6	1.000012
77500.0	32.5	-56.6			52.3	573.3	315.8	12.0	1.000012
78000.0	31.7	-56.7			51.1	573.2	310.8	13.4	1.000011

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UPPER AIR DATA
3060220717
WHITE SANDS

STATION ALTITUDE 3900 FEET MSL
2 NOV. 78
ASCENSION NO. 717

GEODETIC COORDINATES
32.4043 LAT DEG
105.37033 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	RFL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN) SPEED KNOTS	INDEX OF REFRACTION
78500.0	31.0	-56.7		49.9	573.1	309.3	1.00011
79000.0	30.3	-56.8		48.7	573.0	307.5	1.00011
79500.0	29.6	-56.6		47.5	573.3	305.9	1.00011
80000.0	28.9	-56.2		46.3	573.8	304.0	1.00012
80500.0	28.2	-55.9		45.2	574.3	303.8	1.00013
81000.0	27.5	-55.4		44.1	574.8	303.6	1.00013
81500.0	26.9	-55.1		43.0	575.3	303.4	1.00013
82000.0	26.3	-54.7		41.9	575.3	304.3	1.00019
82500.0	25.7	-54.3		40.9	576.3	311.9	1.00039
83000.0	25.1	-54.0		39.8	576.8	325.9	1.00069
83500.0	24.5	-53.6		38.9	577.3	353.0	1.00089
84000.0	23.9	-53.2		37.9	577.7	344.9	1.00088
84500.0	23.4	-52.9		36.9	578.2	297.0	1.00088
85000.0	22.8	-52.5		36.0	578.7	262.0	1.00088
85500.0	22.3	-52.1		35.1	579.2	274.7	1.00089
86000.0	21.8	-51.7		34.3	579.7	280.9	1.00089
86500.0	21.3	-51.4		33.4	580.2	285.9	1.00087
87000.0	20.8	-51.0		32.6	580.7	289.8	1.00087
87500.0	20.3	-50.6		31.8	581.1	292.4	1.00087
88000.0	19.8	-50.2		31.0	581.7	294.5	1.00087
88500.0	19.4	-49.7		30.2	582.4	297.4	1.00087
89000.0	19.9	-49.2		29.4	583.0	301.7	1.00087
89500.0	18.5	-48.6		28.7	583.7		1.00086
90000.0	18.1	-48.1		28.0	584.4		1.00086
90500.0	17.7	-47.6		27.3	585.1		1.00086
91000.0	17.3	-47.1		26.6	585.7		1.00086

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MRN SIGNIFICANT LEVEL DATA
306022717
WHITE SANDS
TABLE IX.

STATION ALTITUDE 39° 9.00 FEET MSL
2 NOV. 78
ASCENSION NO. 717

GEOCLTIC COORDINATES
32.40043 LAT DEG
156.37333 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TN)	SPEED MPS	WIND DATA		DEW PT DEG C	TEMPERATURE		PRESSURE MILLIBARS
			N-S MPS	E-W MPS		AIR DEG C		
2775.	9999.00	9999.00	-9999.00	-9999.00	99	-46.6		1.490+1
2664.	294.	5.	-2.	5.	99	-50.4		2.000+1
2403.	307.	6.	-4.	5.	99	-56.8		3.000+1
2224.	353.	5.	-5.	1.	99	-50.2		3.980+1
2081.	35.	3.	-2.	-2.	99	-62.6		5.000+1
2009.	80.	2.	-0.	-2.	99	-65.1		5.620+1
1875.	283.	4.	-1.	4.	99	-64.7		7.000+1
1843.	262.	6.	1.	0.	99	-68.8		7.380+1
1662.	246.	13.	5.	12.	99	-65.1		1.000+2

.. WIND DATA NOT COMPUTED DUE TO MISSING RA: AZIMUTH AND ELEVATION ANGLES.

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STATION ALTITUDE 3989.00 FEET MSL
2 NOV. 78
ASCENSION NO. 717

MANDATORY LFVELS
3860020717
WHITE SANDS

TABLE X.

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

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PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5175.	13.5	9.7	78.	153.1	6.4
800.0	6850.	12.2	8.3	77.	162.9	14.1
750.0	8618.	8.9	7.8	93.	172.1	15.4
700.0	10489.	5.5	5.3	92.	177.7	20.2
650.0	12478.	3.7	-7.2	45.	226.6	29.8
600.0	14597.	2.1	-26.3	10.	221.4	29.4
550.0	16784.	-2.5	-26.8	13.	235.3	26.2
500.0	19331.	-9.5	-31.2	15.	243.6	29.3
450.0	21970.	-15.0	-34.5	17.	244.7	37.7
400.0	24859.	-21.0	-36.7	24.	251.3	44.5
350.0	28443.	-27.9	-44.1	20.	247.3	46.9
300.0	31612.	-36.8	-49.2	20.	252.6	48.7
250.0	35671.	-45.7			251.4	61.1
200.0	40426.	-55.9			245.6	73.7
175.0	43177.	-61.3			243.1	78.9
150.0	46294.	-64.0			247.1	59.6
125.0	49975.	-64.2			236.5	42.5
100.0	54454.	-65.1			246.6	25.8
80.0	58986.	-67.8			248.8	25.0
70.0	61523.	-64.7			282.0	8.3
60.0	64609.	-65.1			21.4	4.7
50.0	68268.	-62.6			35.7	5.2
40.0	72350.	-56.3			357.0	9.4
30.0	78940.	-56.3			317.1	11.8
25.0	82656.	-53.9			325.3	3.3
20.0	87395.	-50.4			293.4	10.8

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

STATION ALTITUDE 3909.00 FEET MSL
2 NOV. 78 0052 HRS MST
ASCENSION NO. 717

MRN MANDATORY LEVELS
3060020717
WHITE SANDS
TABLE XI.

GEODETTIC COORDINATES
32.47043 LAT DEG
106.37033 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TN)	SPEED MPS	WIND DATA		E-W MPS	DEW PT DEF DEG C	TEMPERATURE		PRESSURE MILLIBARS
			N-S MPS	N-S DEG C			AIR DEG C		
2664.	293.	6.	-2.		5.	99	-50.4		2.000+1
2519.	325.	2.	-1.		1.	99	-53.9		2.500+1
2473.	337.	6.	-4.		5.	99	-56.8		3.000+1
2221.	353.	5.	-5.		1.	99	-56.3		4.000+1
2281.	36.	3.	-2.		-2.	99	-62.6		5.000+1
1969.	21.	2.	-2.		-1.	99	-65.2		6.000+1
1875.	282.	4.	-1.		4.	99	-64.7		7.000+1
1795.	249.	10.	4.		10.	99	-67.8		8.000+1
1662.	247.	13.	5.		12.	99	-65.1		1.000+2
1523.	237.	22.	12.		18.	99	-64.2		1.250+2
1411.	247.	31.	12.		28.	99	-64.1		1.500+2
1316.	243.	41.	18.		36.	99	-61.5		1.750+2
1232.	246.	38.	16.		35.	99	-55.9		2.000+2
1087.	250.	31.	11.		30.	99	-46.2		2.500+2
964.	253.	25.	7.		24.	12	-36.8		3.000+2
655.	247.	24.	9.		22.	16	-27.9		3.500+2
758.	251.	23.	7.		22.	15	-21.6		4.000+2
670.	245.	19.	8.		18.	19	-15.3		4.500+2
589.	244.	15.	7.		13.	22	-7.5		5.000+2
515.	235.	13.	8.		11.	24	-2.6		5.500+2
445.	221.	15.	11.		10.	28	2.3		6.000+2
381.	227.	15.	11.		11.	11	3.7		6.500+2
320.	198.	10.	10.		3.	31	6.5		7.000+2
263.	172.	8.	8.		-1.	31	8.9		7.500+2
209.	163.	7.	7.		-2.	34	12.2		8.000+2
158.	153.	3.	3.		-1.	34	13.5		8.500+2

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STATION ALTITUDE 4395.50 FEET MSL
2 NOV. 78
ASCENSION NO. 7

SIGNIFICANT LEVEL DATA
3060230007
SW 70
TABLE XII.

GEODETIC COORDINATES
33.36888 LAT DEG
106.40406 LON DEG

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PRESSURE	GEOMETRIC ALTITUDE	TEMPERATURE AIR	DEWPOINT DEGREES	REL. HUM. PERCENT
MILLIBARS	MSL FEET	DEGREES	CENTIGRADE	
873.9	4395.5	19.2	12.7	66.0
850.0	3175.5	15.9	10.7	71.0
819.8	6101.9	13.0	9.1	77.0
779.3	7581.1	11.9	7.4	74.0
711.6	10002.6	6.6	5.2	91.0
700.0	10506.8	6.2	3.9	85.0
656.7	12217.2	2.0	-9	81.0
640.3	12809.5	2.8	-12.2	32.0
623.3	13607.5	4.5	-14.3	24.0
598.8	14677.1	2.7	-15.3	25.0
500.0	19339.4	-10.2	-23.3	33.0
446.8	22178.1	-16.2	-28.7	33.0
400.0	24801.9	-23.1	-32.1	43.0
375.8	26375.9	-26.6	-31.0	66.0
367.8	26806.0	-28.0	-35.0	51.0
362.5	2728.4	-29.0	-34.6	57.0
345.3	28369.0	-30.6	-41.5	33.0
300.0	31605.3	-38.4	-48.8	32.0
250.0	35657.0	-47.1		
219.3	38409.6	-54.2		
200.0	40400.6	-57.7		
150.0	40312.0	-62.9		
136.8	48109.0	-61.4		
123.3	50303.7	-63.5		
117.8	51233.4	-61.0		
100.0	54554.4	-65.7		
74.3	60401.5	-69.2		
70.0	61649.1	-65.1		
50.0	63440.7	-63.9		
43.8	71130.1	-59.5		

STATION ALTITUDE 4395.50 FEET MSL
 2 NOV. 78
 ASCENSION NO. 7

SIGNIFICANT LEVEL DATA
 3060230007
 SW 70

GEODETIC COORDINATES
 33.36888 LAT DEG
 106.40406 LON DEG

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
33.8 70512.5	-59.4	
30.0 79002.5	-55.8	
20.0 87637.2	-51.0	
12.3 98251.6	-45.1	
10.5 101744.0	-46.4	
10.0 102823.3	-44.2	
7.3 109873.2	-40.8	

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STATION ALTITUDE 4395.50 FEET MSL
2 NOV. 78 1130 HRS MST
ASCENSION NO. 7

UPPER AIR DATA
3060230007
SW 70
TABLE XIII.

GEODETIC COORDINATES
33.3688 LAT DEG
106.40406 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) DEGREES	SPEED KNOTS	INDEX OF REFRACTION
4395.5	873.9	19.2	66.0	1034.7	663.2	40.0	9.9	1.000296
4500.0	870.7	18.8	66.7	1032.5	667.7	45.0	8.6	1.000294
5000.0	855.3	16.6	69.9	1022.2	665.1	108.1	5.2	1.000288
5500.0	840.1	15.0	72.9	1010.2	663.1	157.0	10.0	1.000282
6000.0	825.2	13.5	75.9	997.3	661.4	171.1	17.1	1.000277
6500.0	810.4	12.7	76.3	982.3	660.5	175.5	24.5	1.000271
7000.0	795.9	12.4	75.2	968.1	660.0	177.1	25.5	1.000266
7500.0	781.6	12.0	74.2	950.2	659.5	176.3	23.5	1.000260
8000.0	767.4	11.0	76.9	936.2	658.3	179.6	22.4	1.000256
8500.0	753.5	9.9	80.3	922.7	657.1	186.5	22.1	1.000252
9000.0	739.8	8.9	83.7	909.4	655.8	194.0	22.4	1.000248
9500.0	726.4	7.8	87.1	896.4	654.6	201.9	23.8	1.000244
10000.0	713.2	6.7	90.6	883.5	653.3	207.7	25.7	1.000240
10500.0	700.2	6.2	95.1	869.3	652.0	210.2	26.1	1.000233
11000.0	687.2	5.0	83.8	857.3	651.0	211.8	30.8	1.000227
11500.0	674.5	3.8	82.7	845.4	649.3	212.1	33.6	1.000221
12000.0	662.0	2.5	81.5	833.7	648.0	213.3	36.0	1.000216
12500.0	649.8	2.3	60.4	819.6	647.4	215.5	37.8	1.000204
13000.0	637.7	3.1	30.8	803.1	647.9	217.3	39.0	1.000191
13500.0	625.8	4.2	25.2	784.9	647.3	218.6	39.6	1.000185
14000.0	614.2	3.8	24.4	771.5	646.8	220.3	39.8	1.000182
14500.0	602.8	3.0	24.8	759.5	647.8	221.8	38.6	1.000179
15000.0	591.4	1.8	25.6	746.4	648.4	223.3	37.4	1.000176
15500.0	580.1	.4	26.4	737.9	644.7	225.2	35.5	1.000173
16000.0	569.1	-.9	27.3	727.3	643.1	227.4	33.5	1.000170
16500.0	558.2	-2.3	28.1	717.3	641.4	229.8	31.9	1.000167
17000.0	547.6	-3.7	29.0	707.3	639.8	232.4	31.2	1.000165
17500.0	537.1	-5.1	29.8	697.4	638.1	234.9	30.9	1.000162
18000.0	526.9	-6.5	30.7	687.0	636.3	236.3	32.6	1.000159
18500.0	516.6	-7.8	31.5	673.1	634.8	237.6	34.4	1.000157

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STATION ALTITUDE 4395.50 FEET MSL
2 NOV. 78 1130 HRS MST
ASCENSION NO. 7

UPPER AIR DATA
3060230007
SW 70

GEODETIC COORDINATES
33.36888 LAT DEG
106.40406 LON DEG

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
19000.0	507.0	-9.2	32.4	668.6	633.1	237.1	38.9	1.000154
19500.0	497.2	-10.5	33.0	659.0	631.6	236.7	43.3	1.000152
20000.0	487.4	-11.6	33.0	648.6	630.3	236.7	45.2	1.000149
20500.0	477.7	-12.6	33.0	638.5	629.0	240.5	47.0	1.000146
21000.0	468.3	-13.7	33.0	628.4	627.7	245.1	47.8	1.000144
21500.0	459.1	-14.8	33.0	618.6	626.4	249.5	49.0	1.000141
22000.0	450.0	-15.8	33.0	608.9	625.1	252.1	50.9	1.000139
22500.0	441.0	-17.0	34.2	599.5	623.8	254.5	52.9	1.000137
23000.0	432.0	-18.3	36.0	590.3	622.1	254.2	56.8	1.000135
23500.0	423.3	-19.6	37.9	581.2	620.5	253.8	60.8	1.000132
24000.0	414.7	-20.8	39.7	572.4	618.9	250.8	65.5	1.000130
24500.0	406.3	-22.1	41.6	563.8	617.4	248.2	70.3	1.000128
25000.0	398.0	-23.4	44.8	554.9	615.8	248.9	71.2	1.000126
25500.0	389.8	-24.5	52.5	546.0	614.4	245.8	71.5	1.000124
26000.0	381.7	-25.7	60.2	537.2	612.9	245.7	72.1	1.000122
26500.0	373.8	-26.9	62.4	528.7	611.4	246.1	72.8	1.000120
27000.0	366.0	-28.3	53.0	520.7	609.7	245.0	73.7	1.000118
27500.0	358.3	-29.4	51.3	511.9	608.3	243.1	74.8	1.000116
28000.0	350.8	-30.1	40.8	502.6	607.4	241.1	74.6	1.000113
28500.0	343.3	-30.9	33.0	493.7	606.4	238.9	73.5	1.000111
29000.0	336.0	-32.1	32.8	485.5	604.9	237.5	73.1	1.000109
29500.0	328.7	-33.3	32.7	477.5	603.4	237.1	73.1	1.000107
30000.0	321.7	-34.5	32.5	469.8	601.8	236.9	74.0	1.000105
30500.0	314.8	-35.7	32.3	461.8	600.3	237.0	76.0	1.000103
31000.0	308.0	-36.9	32.2	454.2	598.8	237.2	78.1	1.000102
31500.0	301.4	-38.1	32.0	446.7	597.2	237.3	80.2	1.000100
32000.0	294.7	-39.2	28.9**	438.9	595.8	237.6	82.3	1.000098
32500.0	288.2	-40.3	24.9**	431.1	594.5	238.2	84.0	1.000096
33000.0	281.8	-41.4	21.0**	423.5	593.1	238.9	85.9	1.000095
33500.0	275.5	-42.5	17.0**	416.0	591.7	240.1	88.5	1.000093

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

GEODETIC COORDINATES
33.30888 LAT DEG
106.40406 LON DEG

UPPER AIR DATA
3060230007
SW 70

STATION ALTITUDE 4395.50 FEET MSL
2 NOV. 78 1130 HRS MST
ASCENSION NO. 7

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
34000.0	269.4	-43.5	13.1**	408.7	590.3	241.2	91.7	1.000091
34500.0	263.4	-44.6	9.1**	401.4	588.9	242.9	96.6	1.000089
35000.0	257.5	-45.7	5.2**	394.4	587.6	244.4	105.6	1.000088
35500.0	251.8	-46.8	1.2**	387.4	586.2	245.6	114.2	1.000086
36000.0	246.0	-48.0		380.6	584.6	247.2	123.1	1.000085
36500.0	240.4	-49.2		374.0	583.0	248.1	127.8	1.000083
37000.0	234.8	-50.5		367.4	581.3	248.9	128.3	1.000082
37500.0	229.4	-51.8		361.0	579.7	249.6	128.2	1.000080
38000.0	224.2	-53.0		354.7	578.0	249.8	125.0	1.000079
38500.0	219.0	-54.3		348.5	576.4	249.9	122.4	1.000078
39000.0	213.8	-55.2		341.7	575.2	249.4	126.6	1.000076
39500.0	208.8	-56.1		335.0	574.0	248.9	130.7	1.000075
40000.0	203.9	-57.0		328.5	572.8	248.5	134.3	1.000073
40500.0	199.0	-57.8		322.0	571.7	248.2	137.9	1.000072
41000.0	194.2	-58.2		314.9	571.1	247.7	137.7	1.000070
41500.0	189.6	-58.7		307.9	570.5	247.2	136.6	1.000069
42000.0	185.0	-59.1		301.1	570.0	246.6	134.1	1.000067
42500.0	180.6	-59.5		294.5	569.4	246.4	130.3	1.000066
43000.0	176.2	-60.0		289.0	568.8	246.0	126.3	1.000064
43500.0	172.0	-60.4		281.7	568.2	245.3	119.8	1.000063
44000.0	167.9	-60.9		275.5	567.6	244.6	113.3	1.000061
44500.0	163.8	-61.3		269.4	567.0	243.5	106.6	1.000060
45000.0	159.9	-61.7		263.5	566.4	242.5	99.8	1.000059
45500.0	156.0	-62.2		257.7	565.8	240.9	93.5	1.000057
46000.0	152.3	-62.6		252.0	565.3	240.1	89.0	1.000056
46500.0	148.6	-62.7		246.1	565.1	239.2	84.6	1.000055
47000.0	145.0	-62.4		239.7	565.6	238.6	82.5	1.000053
47500.0	141.5	-62.0		233.4	565.2	237.9	81.4	1.000052
48000.0	138.1	-61.6		227.3	565.7	237.7	80.7	1.000051
48500.0	134.7	-61.7		222.0	565.5	233.4	81.2	1.000049

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

STATION ALTITUDE 4395.50 FEET MSL
2 NOV. 78 1130 HRS MST
ASCENSION NO. 7

UPPER AIR DATA
3060230007
SW 70

GEODETIC COORDINATES
33.30888 LAT DEG
106.40406 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
49000.0	131.5	-62.2			217.1	565.8	239.1	81.7	1.000048
49500.0	128.3	-62.7			212.3	563.2	241.3	78.1	1.000047
50000.0	125.2	-63.2			207.7	564.5	244.4	73.5	1.000046
50500.0	122.1	-63.0			202.4	564.8	247.8	68.7	1.000045
51000.0	119.2	-61.8			196.2	563.8	250.2	60.7	1.000044
51500.0	116.3	-61.4			191.2	563.9	253.8	52.9	1.000043
52000.0	113.4	-62.1			187.2	563.0	256.0	46.0	1.000042
52500.0	110.7	-62.8			183.3	563.0	258.1	39.8	1.000041
53000.0	106.0	-63.5			179.4	564.1	259.3	33.6	1.000040
53500.0	105.3	-64.2			175.6	563.1	255.0	29.6	1.000039
54000.0	102.8	-64.9			171.9	562.2	252.8	26.5	1.000038
54500.0	100.3	-65.6			168.3	561.2	249.9	23.6	1.000037
55000.0	97.8	-66.0			164.4	560.8	247.8	22.6	1.000037
55500.0	95.4	-66.3			160.8	560.4	243.0	21.6	1.000036
56000.0	93.0	-66.6			156.8	560.0	242.3	20.7	1.000035
56500.0	90.7	-66.9			153.1	559.8	240.3	18.6	1.000034
57000.0	88.4	-67.1			149.5	559.2	238.0	18.3	1.000033
57500.0	86.2	-67.4			146.0	558.8	234.9	14.1	1.000033
58000.0	84.1	-67.7			142.8	558.3	234.6	10.6	1.000032
58500.0	82.0	-68.0			139.3	557.9	230.8	6.5	1.000031
59000.0	80.0	-68.3			136.0	557.5	245.4	2.4	1.000030
59500.0	78.0	-68.6			132.8	557.1	28.8	2.6	1.000030
60000.0	76.0	-68.9			129.7	556.7	39.1	7.5	1.000029
60500.0	74.2	-69.1			126.8	556.5	40.4	12.5	1.000028
61000.0	72.3	-67.3			122.4	556.9	42.9	15.9	1.000027
61500.0	70.5	-65.6			118.4	561.2	44.8	19.2	1.000026
62000.0	68.8	-63.0			115.2	562.0	45.6	22.4	1.000026
62500.0	67.1	-64.9			112.3	562.1	48.4	23.2	1.000025
63000.0	65.5	-64.9			109.5	562.2	50.7	24.1	1.000024
63500.0	63.9	-64.8			106.8	562.4	52.9	24.8	1.000024

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STATION ALTITUDE 4395.50 FEET MSL
2 NOV. 78 1130 HRS MST
ASCENSION NO. 7

UPPER AIR DATA
3060230007
SW 70

GEODETIC COORDINATES
33.3688 LAT DEG
106.40406 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) DEGREES	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
04000.0	02.3	-64.7		104.1	562.5	54.9	24.6	1.000023
04500.0	00.8	-64.6		101.5	562.0	50.9	24.5	1.000023
05000.0	59.3	-64.5		99.0	562.7	57.9	24.2	1.000022
05500.0	57.8	-64.4		96.5	562.8	57.0	23.4	1.000022
06000.0	50.4	-64.3		94.1	563.0	56.1	22.7	1.000021
06500.0	55.0	-64.2		91.8	563.1	54.8	21.7	1.000020
07000.0	53.7	-64.2		89.5	563.2	52.3	20.6	1.000020
07500.0	52.4	-64.1		87.3	563.3	49.8	19.5	1.000019
08000.0	51.1	-64.0		85.1	563.4	47.5	17.9	1.000019
08500.0	49.9	-63.8		83.0	563.7	45.1	15.9	1.000018
09000.0	48.7	-63.0		80.6	564.0	41.9	14.0	1.000018
09500.0	47.5	-62.2		78.4	565.9	38.3	13.1	1.000017
70000.0	46.3	-61.4		76.2	565.9	34.7	12.8	1.000017
70500.0	45.2	-60.6		74.1	566.0	31.0	12.6	1.000016
71000.0	44.1	-59.7		72.0	569.1	29.7	13.5	1.000016
71500.0	43.1	-59.5		70.2	569.4	29.8	14.9	1.000016
72000.0	42.0	-59.5		68.5	569.5	29.9	16.3	1.000015
72500.0	41.0	-59.5		66.9	569.5	30.5	17.1	1.000015
73000.0	40.1	-59.5		65.3	569.5	31.4	17.5	1.000015
73500.0	39.1	-59.5		63.7	569.5	32.2	17.9	1.000014
74000.0	38.2	-59.4		62.2	569.5	33.0	18.0	1.000014
74500.0	37.3	-59.4		60.7	569.5	33.7	17.3	1.000014
75000.0	36.4	-59.4		59.3	569.5	34.4	16.6	1.000013
75500.0	35.5	-59.4		57.9	569.5	35.2	15.9	1.000013
76000.0	34.6	-59.4		56.5	569.6	35.1	14.9	1.000013
76500.0	33.8	-59.4		55.1	569.6	34.8	13.7	1.000012
77000.0	33.0	-53.7		53.6	570.5	34.0	12.5	1.000012
77500.0	32.2	-53.0		52.2	571.5	33.5	11.7	1.000012
78000.0	31.5	-57.2		50.8	572.4	33.3	11.3	1.000011
78500.0	30.7	-56.5		49.4	573.4	33.1	10.9	1.000011

STATION ALTITUDE 4395.50 FEET MSL
2 NOV. 78 1130 HRS MST
ASCENSION NO. 7

UPPER AIR DATA
3060230007
SW 70

GEODETIC COORDINATES
33.36888 LAT DEG
106.40406 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) DEGREES	SPEED KNOTS	INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE						
79000.0	30.0	-55.8			48.1	574.3	32.9	10.5	1.000011
79500.0	29.3	-55.5			48.9	574.7	37.8	11.2	1.000010
80000.0	28.6	-55.2			48.8	575.1	42.4	12.0	1.000010
80500.0	28.0	-55.0			44.8	575.4	46.3	12.9	1.000010
81000.0	27.3	-54.7			43.6	575.8	49.8	13.3	1.000010
81500.0	26.7	-54.4			42.5	576.2	53.1	13.4	1.000009
82000.0	26.1	-54.1			41.5	576.5	56.4	13.6	1.000009
82500.0	25.5	-53.9			40.4	576.9	59.1	13.9	1.000009
83000.0	24.9	-53.6			39.5	577.3	53.0	14.2	1.000009
83500.0	24.3	-53.3			38.5	577.6	50.6	14.5	1.000009
84000.0	23.7	-53.0			37.5	578.0	36.6	14.3	1.000008
84500.0	23.2	-52.7			36.6	578.4	23.1	15.0	1.000008
85000.0	22.6	-52.5			35.7	578.7	12.2	15.7	1.000008
85500.0	22.1	-52.2			34.9	579.1	4.3	14.2	1.000008
86000.0	21.6	-51.9			34.0	579.5	354.8	13.0	1.000008
86500.0	21.1	-51.6			33.2	579.8	346.4	11.3	1.000007
87000.0	20.6	-51.4			32.4	580.2	339.4	8.5	1.000007
87500.0	20.1	-51.1			31.6	580.6	326.1	5.9	1.000007
88000.0	19.7	-50.8			30.8	580.9	323.2	4.9	1.000007
88500.0	19.2	-50.5			30.1	581.3	335.3	4.8	1.000007
89000.0	18.8	-50.2			29.4	581.6	347.1	4.9	1.000007
89500.0	18.4	-50.0			28.7	582.0	12.2	6.2	1.000006
90000.0	17.9	-49.7			28.0	582.4	29.9	6.8	1.000006
90500.0	17.5	-49.4			27.3	582.7	39.1	11.8	1.000006
91000.0	17.1	-49.1			26.7	583.1	45.4	13.6	1.000006
91500.0	16.8	-48.9			26.0	583.5	50.6	15.2	1.000006
92000.0	16.4	-48.6			25.4	583.8	54.7	16.9	1.000006
92500.0	16.0	-48.3			24.8	584.2	62.3	12.8	1.000006
93000.0	15.6	-48.0			24.2	584.5	78.7	8.7	1.000005
93500.0	15.3	-47.7			23.6	584.9	113.3	6.2	1.000005

STATION ALTITUDE 4395.50 FEET MSL
2 NOV. 78 1130 HRS MST
ASCENSION NO. 7

UPPER AIR DATA
3050230007
SW 70

GEODETIC COORDINATES
33.36888 LAT DEG
106.40406 LON DEG

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
94500.0	14.6	-47.2		22.5	565.6	193.5	10.0	1.000005
95000.0	14.3	-46.9		22.0	568.0	205.5	14.8	1.000005
95500.0	14.0	-46.6		21.5	563.3	212.3	17.0	1.000005
96000.0	13.6	-46.4		20.9	566.7	218.6	17.7	1.000005
96500.0	13.3	-46.1		20.4	567.1	224.4	18.6	1.000005
97000.0	13.0	-45.8		20.0	567.4	229.9	19.4	1.000004
97500.0	12.7	-45.5		19.5	567.8	235.5	19.6	1.000004
98000.0	12.4	-45.2		19.0	568.1	242.5	20.1	1.000004
98500.0	12.2	-45.2		18.6	565.2	248.3	20.8	1.000004
99000.0	11.9	-45.4		18.2	565.0	253.1	19.8	1.000004
99500.0	11.6	-45.6		17.8	567.7	258.4	18.5	1.000004
100000.0	11.4	-45.8		17.4	567.5	264.4	17.4	1.000004
100500.0	11.1	-45.9		17.0	567.2	270.1	16.4	1.000004
101000.0	10.9	-46.1		16.7	567.0	274.9	15.6	1.000004
101500.0	10.6	-46.3		16.3	566.8	280.3	14.8	1.000004
102000.0	10.4	-46.5		15.9	567.3	285.1	14.2	1.000004
102500.0	10.1	-44.9		15.5	563.6	277.4	14.9	1.000003
103000.0	9.9	-44.1		15.1	569.0	263.9	16.1	1.000003
103500.0	9.7	-43.9		14.7	569.9	261.7	17.6	1.000003
104000.0	9.5	-43.6		14.4	590.2	256.3	18.6	1.000003
104500.0	9.3	-43.4		14.1	590.5	251.6	18.9	1.000003
105000.0	9.1	-43.2		13.7	590.8	247.4	19.4	1.000003
105500.0	8.9	-42.9		13.4	591.1	243.3	19.9	1.000003
106000.0	8.7	-42.7		13.1	591.4	247.3	19.6	1.000003
106500.0	8.5	-42.4		12.8	591.8	251.4	19.8	1.000003
107000.0	8.3	-42.2		12.5	592.1	255.5	19.9	1.000003
107500.0	8.1	-41.9		12.2	592.4			1.000003
108000.0	7.9	-41.7		11.9	592.7			1.000003
108500.0	7.8	-41.5		11.7	593.0			1.000003

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STATION ALTITUDE 4395.50 FEET MSL
2 NOV. 78
ASCENSION NO. 7

UPPER AIR DATA
3060230007
SW 70

GEODETIC COORDINATES
33.36888 LAT DEG
106.40406 LON DEG

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	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
109000.0	7.6	-41.2			11.4	593.3			1.000003
109500.0	7.4	-41.0			11.1	593.6			1.000002

STATION ALTITUDE 4395.50 FEET MSL
2 NOV. 78
ASCENSION NO. 7

MRN SIGNIFICANT LEVEL DATA
3060230007
SW 70
TABLE XIV.

GEODETIC COORDINATES
33.30888 LAT DEG
106.40406 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION JEG (TN)	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			AIR DEG C		
3330.	9999.**	9999.**	-9999.**	-9999.**	99	-40.8		7.300+0
3117.	272.	8.	-0.	8.	99	-44.2		1.000+1
3085.	283.	7.	-2.	7.	99	-46.4		1.050+1
2979.	245.	11.	4.	10.	99	-45.1		1.230+1
2659.	320.	3.	-2.	2.	99	-51.0		2.000+1
2398.	33.	5.	-5.	-3.	99	-55.8		3.000+1
2323.	35.	7.	-6.	-4.	99	-59.4		3.380+1
2160.	30.	7.	-6.	-4.	99	-59.5		4.380+1
2076.	45.	8.	-6.	-6.	99	-63.9		5.000+1
1873.	45.	10.	-7.	-7.	99	-65.1		7.000+1
1837.	40.	8.	-5.	-4.	99	-69.2		7.430+1
1658.	250.	12.	4.	11.	99	-65.7		1.000+2

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** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4395.50 FEET MSL
2 NOV. 78
ASCENSION NO. 7

MANDATORY LEVELS
3060230007
SW 70
TABLE XV.

GEODETIC COORDINATES
33.36888 LAT DEG
106.40406 LON DEG

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PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5172.	15.9	10.7	71.	133.1	6.2
800.0	6853.	12.5	8.3	70.	177.3	26.0
750.0	8620.	9.7	6.6	81.	108.3	22.1
700.0	10497.	6.2	3.9	83.	210.2	28.2
650.0	12477.	2.3	-4.4	61.	215.4	37.7
600.0	14600.	2.8	-15.3	23.	222.1	38.3
550.0	16892.	-3.4	-18.9	29.	231.9	31.3
500.0	19333.	-10.2	-23.3	33.	236.8	42.0
450.0	21969.	-15.8	-28.3	33.	252.1	50.9
400.0	24842.	-23.1	-32.1	43.	247.2	71.1
350.0	28003.	-30.2	-39.4	40.	240.9	74.5
300.0	31544.	-38.4	-48.6	32.	237.3	80.6
250.0	35581.	-47.1			246.2	110.7
200.0	40300.	-57.7			246.2	137.1
175.0	43055.	-60.1			245.8	124.4
150.0	46190.	-62.9			239.6	86.4
125.0	49860.	-63.2			244.4	73.5
100.0	54399.	-65.7			249.8	23.5
80.0	58810.	-66.3			244.3	2.6
70.0	61442.	-65.1			44.9	20.0
60.0	64520.	-64.6			57.8	24.5
50.0	68180.	-63.9			45.5	16.3
40.0	72742.	-59.5			31.4	17.5
30.0	78671.	-55.8			32.9	10.6
25.0	82499.	-53.6			53.7	14.1
20.0	87234.	-51.0			322.0	5.5
15.0	93424.	-47.5			149.1	5.8
10.0	102276.	-44.2			272.5	15.6

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

STATION ALTITUDE 4395.50 FEET MSL
2 NOV. 78
ASCENSION NO. 7

MRN MANDATORY LEVELS
3060230007
SW 70
TABLE XVI.

GEODETIC COORDINATES
33.3688 LAT DEG
106.40406 LON DEG

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GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TN)	SPEED MPS	WIND DATA	E-W MPS	DEW PT DEP DEG C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
3117.	273.	9.	-0.	6.	99	-44.2	1.000+1
2848.	149.	3.	3.	-2.	99	-47.5	1.500+1
2659.	322.	3.	-2.	2.	99	-51.0	2.000+1
2515.	54.	7.	-4.	-8.	99	-53.6	2.500+1
2398.	33.	5.	-5.	-3.	99	-55.8	3.000+1
2217.	31.	9.	-6.	-5.	99	-59.5	4.000+1
2078.	46.	8.	-6.	-8.	99	-63.9	5.000+1
1967.	58.	13.	-7.	-11.	99	-64.6	6.000+1
1873.	45.	10.	-7.	-7.	99	-65.1	7.000+1
1793.	244.	1.	1.	1.	99	-63.3	8.000+1
1658.	250.	12.	4.	11.	99	-65.7	1.000+2
1521.	244.	38.	16.	34.	99	-63.2	1.250+2
1408.	240.	44.	22.	38.	99	-62.9	1.500+2
1312.	246.	64.	26.	58.	99	-60.1	1.750+2
1229.	248.	71.	26.	65.	99	-57.7	2.000+2
1085.	246.	60.	24.	55.	99	-47.1	2.500+2
961.	237.	41.	22.	35.	10	-36.4	3.000+2
854.	241.	38.	19.	34.	09	-30.2	3.500+2
757.	247.	37.	14.	34.	09	-23.1	4.000+2
670.	252.	26.	8.	25.	13	-15.8	4.500+2
589.	237.	22.	12.	18.	13	-10.2	5.000+2
515.	232.	16.	10.	13.	16	-3.4	5.500+2
445.	222.	20.	15.	13.	18	2.8	6.000+2
360.	215.	19.	16.	11.	07	2.3	6.500+2
320.	210.	14.	15.	7.	02	6.2	7.000+2
263.	186.	11.	11.	2.	03	9.7	7.500+2
209.	177.	15.	13.	-1.	04	12.5	8.000+2
156.	133.	5.	2.	-2.	05	15.9	8.500+2