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ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/G 16/4.2
12823A LANCE, MISSILE NUMBER 4285, ROUND NUMBER 305 NCL (7 DECE--ETC(U)
DEC 77

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December 1977
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METEOROLOGICAL DATA REPORT

12823A LANCE
MISSILE NO. 4285, ROUND NO. 305 NCL
(7 DECEMBER 1977)

BY

WSMR METEOROLOGICAL TEAM

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Meteorological data gathered for the launching of 12823A Lance, Missile Number 4285, Round Number 305 NCL, are presented in tabular form.			

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INTRODUCTION

12823A Lance, Missile Number 4285, Round Number 305 NCL, was launched from Don Site, White Sands Missile Range (WSMR), New Mexico, at 0818 HRS MST, 7 December 1977. The scheduled launch time was 0815 HRS MST.

DISCUSSION

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

ELEVATION	3,997	FEET/MSL
PRESSURE	878.2	MBS
TEMPERATURE	2.5	°C
RELATIVE HUMIDITY	64	%
DEW POINT	-3.5	°C
DENSITY	1,109	GM/M ³
WIND SPEED	04	MPH
WIND DIRECTION	347	DEGREES
CLOUD COVER	CLEAR	

TABLE I. SURFACE OBSERVATIONS TAKEN AT DON SITE, 0815 HRS MST/7 DECEMBER 1977.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	346	04	2100	229	04
100	040	01	2200	246	06
200	023	02	2300	253	06
300	218	04	2400	256	07
400	158	05	2500	280	09
500	195	09	2600	285	11
600	197	05	2700	288	14
700	162	05	2800	291	17
800	246	04	2900	286	11
900	197	09	3000	286	16
1000	177	10	3100	283	12
1100	187	09	3200	275	17
1200	181	10	3300	281	22
1300	158	09	3400	285	19
1400	102	06	3500	277	17
1500	121	06	3600	270	16
1600	087	09	3700	274	20
1700	061	05	3800	283	18
1800	083	06	3900	300	22
1900	139	03	4000	290	20
2000	233	02	4100	282	16

TABLE II. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM DON SITE, AT 0805 MST/7 DECEMBER 1977
12823A LANCE, MISSILE NO. 4285, ROUND NO. 305 NCL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 511,988.37 Y = 247,396.36 Z = 3,996.83

APPROXIMATELY: 100 YDS EAST OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	288	14
4300	297	20
4400	298	18
4500	303	17
4600	311	20
4700	294	20
4800	295	23
4900	297	21
5000	310	25
5100	312	27
5200	312	27
5300	308	26
5400	312	24
5500	306	25
5600	301	27

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
5700	302	27
5800	304	26
5900	306	26
6000	306	26
6100	308	26
6200	310	23
6300	302	22
6400	299	25
6500	300	22
6600	303	24
6700	305	24
6800	305	24
6900	308	25
7000	297	25

TABLE II. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	347	04
100	036	01
200	036	01
300	018	01
400	CALM	
500	200	01
600	250	02
700	190	02
800	224	09
900	190	12
1000	188	11
1100	193	09
1200	159	07
1300	107	06
1400	136	07
1500	023	04
1600	074	03
1700	079	05
1800	091	05
1900	143	02
2000	339	02

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
2100	285	09
2200	260	08
2300	197	04
2400	235	09
2500	262	11
2600	280	13
2700	282	14
2800	284	15
2900	287	17
3000	285	20
3100	289	16
3200	325	07
3300	300	06
3400	263	32
3500	273	28
3600	278	24
3700	280	21
3800	290	19
3900	294	20
4000	296	20
4100	296	20

TABLE III. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM DON SITE, AT 0815 MST/7 DECEMBER 1977
12823A LANCE, MISSILE NO. 4285, ROUND NO. 305 NCL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 511,988.37 Y = 247,396.36 Z = 3,996.83

APPROXIMATELY: 100 YDS EAST OF LAUNCHER

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	297	19
4300	295	17
4400	301	20
4500	303	21
4600	302	21
4700	303	21
4800	306	21
4900	311	24
5000	313	26
5100	312	27
5200	309	27
5300	303	27
5400	307	27
5500	302	27
5600	300	27
5700	302	26
5800	303	27
5900	303	26
6000	306	26
6100	305	25
6200	307	26
6300	305	26
6400	302	26
6500	298	25

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
6600	296	28
6700	296	27
6800	291	26
6900	293	27
7000	295	26
7100	289	23
7200	287	23
7300	287	23
7400	295	38
7500	293	19
7600	293	28
7700	296	31
7800	294	31
7900	294	31
8000	295	31
8100	297	32
8200	299	30
8300	297	33
8400	300	33
8500	303	34
8600	302	33
8700	299	33
8800	297	32
8900	297	32

TABLE III. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
9000	296	29
9100	293	29
9200	292	29
9300	291	30
9400	294	30
9500	290	28
9600	288	29

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
9700	286	30
9800	283	31
9900	286	30
10000	286	29
10100	286	31
10200	290	32
10300	293	31

TABLE III. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

T-TIME (SEC)	SPEED (MPH)	DIR DEG
-30.0	02	345
-20.0	04	350
-10.0	04	354
-00.00	04	340
+10.00	04	340

TABLE IV. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE NO. 1
12823A LANCE, MISSILE NO. 4285, ROUND NO. 305 NCL
LAUNCHED FROM DON SITE, 0815 MST/7 DECEMBER 1977

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

GEODETIC COORDINATES
32.88865 LAT DEG
126.09965 LON DEG

SIGNIFICANT LEVEL DATA
J41G010841
HULLLOMAN
TABLE V.

STATION ALTITUDE 4126.59 FEET MSL
7 DEC. 77
ASCENSION NO. 841

PRESSURE GEOMETRIC ALTITUDE		TEMPERATURE		REL. HUM. PERCENT
MILLIBARS	MSL FEET	AIR DEGREES	DEWPOINT CENTIGRADE	
873.9	4126.6	-0.2	-5.6	67.0
863.4	4450.3	3.8	-6.2	48.0
850.0	4868.9	5.9	-4.5	47.0
828.3	5566.8	8.4	-5.8	36.0
818.3	5896.5	9.2	-5.8	34.0
798.3	6568.3	8.8	-10.6	24.0
776.3	7327.4	9.7	-14.1	17.0
718.3	9436.7	9.0	-17.0	14.0
700.0	10134.7	7.4	-18.3	14.0
644.3	12352.8	3.0	-21.8	14.0
607.3	13912.6	-0.4	-17.1	27.0
558.3	16104.1	-3.7	-26.4	26.0
500.0	18915.5	-11.8	-25.5	31.0
490.5	19398.0	-10.5	-30.8	17.0
433.3	22477.9	-18.2	-35.6	20.0
400.0	24413.3	-23.6	-40.1	20.0
334.3	28614.7	-34.4	-50.8	17.0
300.0	31059.9	-40.7		
251.3	34924.6	-50.3		
250.0	35035.5	-49.7		
236.8	36195.0	-50.4		
208.8	38353.7	-54.8		
200.0	39754.3	-54.8		
150.0	45665.5	-62.3		
132.3	48198.2	-62.5		
116.3	50776.6	-65.7		
100.0	53764.5	-66.9		
88.3	56228.4	-65.3		
76.3	59086.5	-71.7		
70.0	60746.0	-71.7		

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GEODETIC COORDINATES
 32.88865 LAT DEG
 136.09965 LON DEG

SIGNIFICANT LEVEL DATA
 341001384;
 HULLLOMAN
 TABLE V. (CONT)

STATION ALTITUDE +126.59 FEET MSL
 7 DEC. 77
 ASCENSION NO. 841

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
66.3 61785.6	-74.0	
60.3 63634.4	-64.4	
50.0 67393.3	-61.8	
30.0 77827.7	-56.6	
27.3 79770.1	-58.0	
24.8 81757.4	-54.5	
20.0 86245.1	-54.3	
16.0 90931.2	-51.4	
11.5 97876.6	-53.4	
10.0 100827.3	-49.5	
7.8 106100.2	-50.4	

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UPPER AIR DATA
J410J10841
HULLMAN
TABLE VI.

STATION ALTITUDE 4126.59 FEET MSL
7 DEC 77 08:00 HRS MST
ASCENSION NO. 841

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUMID. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
							DIRECTION DEGREES(TN)	SPEED KNOTS	
4126.6	873.9	-2	-5.6	67.0	1113.4	644.2	0	0	1.000269
4500.0	861.8	4.0	-6.0	47.9	1081.2	649.2	188.5	2.3	1.000260
5000.0	845.9	6.4	-4.7	44.9	1052.2	652.0	188.5	5.5	1.000255
5500.0	830.4	8.2	-5.0	37.1	1026.4	654.0	188.5	8.6	1.000248
6000.0	815.2	9.1	-6.5	32.5	1004.2	655.1	188.5	11.7	1.000242
6500.0	800.3	8.8	-10.1	25.0	987.4	654.6	220.5	9.5	1.000234
7000.0	785.7	9.3	-12.5	20.0	967.9	655.1	256.8	10.6	1.000227
7500.0	771.4	9.6	-14.4	16.8	949.3	655.5	283.8	13.6	1.000221
8000.0	757.3	9.5	-15.0	16.0	932.6	655.2	296.3	16.4	1.000217
8500.0	743.5	9.3	-15.7	15.3	916.1	655.0	302.8	17.5	1.000213
9000.0	729.9	9.1	-16.4	14.6	900.0	654.8	306.3	18.6	1.000209
9500.0	716.6	8.9	-17.1	14.3	884.5	654.5	308.7	19.8	1.000205
10000.0	703.5	7.7	-18.1	14.3	871.9	653.1	307.6	20.9	1.000201
10500.0	690.5	6.7	-18.9	14.0	859.0	651.9	306.1	22.0	1.000198
11000.0	677.7	5.7	-19.7	14.0	846.1	650.8	303.0	23.6	1.000195
11500.0	665.2	4.7	-20.5	14.0	833.4	649.6	299.8	25.3	1.000192
12000.0	652.9	3.7	-21.3	14.0	821.3	648.4	295.7	27.4	1.000188
12500.0	640.7	2.7	-21.1	15.2	808.7	647.2	291.7	29.2	1.000186
13000.0	628.7	1.6	-19.3	19.4	796.5	646.0	287.7	30.5	1.000184
13500.0	616.9	.5	-17.9	23.6	784.6	644.7	287.3	32.0	1.000182
14000.0	605.3	-5	-17.2	27.0	772.7	643.6	288.6	33.5	1.000180
14500.0	593.8	-1.3	-18.0	26.7	760.1	642.7	290.6	35.4	1.000177
15000.0	582.5	-2.0	-16.7	26.5	747.8	641.7	292.5	37.3	1.000174
15500.0	571.4	-2.8	-19.5	26.3	735.6	640.8	291.8	36.9	1.000171
16000.0	560.5	-3.5	-20.2	26.0	723.7	639.9	291.2	36.2	1.000168
16500.0	549.7	-4.8	-21.0	26.7	713.2	638.4	291.0	34.9	1.000165
17000.0	539.0	-6.3	-21.9	27.6	703.1	636.7	291.6	34.5	1.000162
17500.0	528.5	-7.7	-22.8	28.5	693.2	634.9	292.9	35.0	1.000160
18000.0	518.3	-9.2	-23.7	29.4	683.5	633.2	295.0	35.3	1.000157
18500.0	508.2	-10.6	-24.7	30.3	673.9	631.4	297.4	35.6	1.000155

UPPER AIR DATA
 341001,841
 HULLOMAN
 TABLE VI. (CONT)

STATION ALTITUDE 4124.59 FEET MSL
 7 DEC. 77 0800 HRS MST
 ASCENSION NO. 841

GEODETIC COORDINATES
 32.88865 LAT DEG
 106.39965 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
19000.0	498.3	-11.6	28.5	663.3	630.3	302.4	33.9	1.000152
19500.0	488.5	-10.8	17.1	648.3	631.2	307.8	32.7	1.000147
20000.0	478.8	-12.0	17.6	638.4	629.7	311.8	33.7	1.000145
20500.0	469.2	-13.3	18.1	628.7	628.1	314.2	35.3	1.000142
21000.0	459.9	-14.5	18.6	619.2	626.6	314.3	37.7	1.000140
21500.0	450.7	-15.8	19.0	609.8	625.1	312.4	39.0	1.000138
22000.0	441.7	-17.0	19.5	600.6	623.6	309.6	40.0	1.000136
22500.0	432.9	-18.3	20.0	591.5	622.0	306.4	39.8	1.000133
23000.0	424.1	-19.7	20.0	582.6	620.3	303.3	39.5	1.000131
23500.0	415.4	-21.1	20.0	573.9	618.6	302.4	38.0	1.000129
24000.0	406.9	-22.4	20.0	565.3	616.9	302.2	36.9	1.000127
24500.0	398.5	-23.8	19.9	556.7	615.2	304.0	37.0	1.000125
25000.0	390.1	-25.1	19.6	547.8	613.6	306.9	37.4	1.000123
25500.0	381.9	-26.4	19.2	539.0	612.0	311.4	38.4	1.000121
26000.0	373.8	-27.7	18.9	530.4	610.4	314.6	39.4	1.000119
26500.0	365.9	-29.0	18.5	521.9	608.8	317.0	40.3	1.000117
27000.0	358.2	-30.2	18.2	513.6	607.2	317.3	40.9	1.000115
27500.0	350.6	-31.5	17.8	505.5	605.6	316.3	41.3	1.000113
28000.0	343.2	-32.8	17.4	497.4	604.0	315.2	40.7	1.000111
28500.0	335.9	-34.1	17.1	489.5	602.3	314.1	39.6	1.000109
29000.0	328.6	-35.4	14.3..	481.5	600.7	314.2	38.6	1.000108
29500.0	321.5	-36.7	10.8..	473.5	599.1	315.2	37.8	1.000106
30000.0	314.4	-38.0	7.4..	465.7	597.4	315.6	37.4	1.000104
30500.0	307.5	-39.3	3.9..	458.0	595.8	315.8	37.1	1.000102
31000.0	300.8	-40.5	.4..	450.5	594.2	315.1	35.6	1.000100
31500.0	294.0	-41.8		442.7	592.6	314.2	34.2	1.000099
32000.0	287.3	-43.0		435.0	591.0	312.7	35.8	1.000097
32500.0	280.8	-44.3		427.5	589.4	312.1	37.8	1.000095
33000.0	274.5	-45.5		420.1	587.8	313.1	40.5	1.000094
33500.0	268.3	-46.8		412.8	586.2	314.2	42.6	1.000092

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

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STATION ALTITUDE 4126.59 FEET MSL
 7 DEC. 77 0800 HRS MST
 ASCENSION NO. 841

UPPER AIR DATA
 3410010841
 HULLMAN

GEODETIC COORDINATES
 32.88865 LAT DEG
 156.09965 LON DEG

TABLE VI. (CONT)

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	262.2	-48.0		435.7	584.6	315.6	43.5	1.0000190
34500.0	256.2	-49.2		398.7	582.9	315.0	44.3	1.0000089
35000.0	250.4	-49.9		390.7	582.1	311.3	45.1	1.0000087
35500.0	244.6	-50.0		381.9	582.0	307.0	45.8	1.0000085
36000.0	239.0	-50.3		373.5	581.6	300.9	46.6	1.0000083
36500.0	233.4	-50.9		365.9	580.8	295.9	48.2	1.0000081
37000.0	227.9	-51.7		358.6	579.7	294.2	51.5	1.0000080
37500.0	222.6	-52.6		351.6	578.6	292.6	54.9	1.0000078
38000.0	217.4	-53.4		344.6	577.5	293.0	59.7	1.0000077
38500.0	212.3	-54.2		337.8	576.4	293.3	64.6	1.0000075
39000.0	207.3	-54.8		330.8	575.7	292.0	66.9	1.0000074
39500.0	202.4	-54.8		323.0	575.7	290.1	68.4	1.0000072
40000.0	197.6	-55.1		315.7	575.3	288.2	69.9	1.0000070
40500.0	192.9	-55.7		309.1	574.4	286.5	71.3	1.0000069
41000.0	188.2	-56.4		302.5	573.6	285.0	73.1	1.0000067
41500.0	183.7	-57.0		296.1	572.7	285.1	76.4	1.0000066
42000.0	179.3	-57.6		289.8	571.9	285.3	79.5	1.0000065
42500.0	175.0	-58.3		283.7	571.1	286.2	81.3	1.0000063
43000.0	170.8	-58.9		277.7	570.2	287.0	82.6	1.0000062
43500.0	166.7	-59.6		271.8	569.4	287.6	80.8	1.0000061
44000.0	162.7	-60.2		266.1	568.5	288.1	78.6	1.0000059
44500.0	158.8	-60.8		260.5	567.7	287.9	74.6	1.0000058
45000.0	154.9	-61.5		255.0	566.8	287.7	71.3	1.0000057
45500.0	151.2	-62.1		249.6	566.0	287.3	70.1	1.0000056
46000.0	147.5	-62.3		243.8	565.7	287.2	69.1	1.0000054
46500.0	143.9	-62.4		237.9	565.6	287.4	68.8	1.0000053
47000.0	140.4	-62.4		232.1	565.6	287.9	68.5	1.0000052
47500.0	137.0	-62.4		226.4	565.5	289.3	68.5	1.0000050
48000.0	133.6	-62.5		220.9	565.4	290.6	68.5	1.0000049
48500.0	130.3	-62.9		215.9	564.9	292.5	69.2	1.0000048

GEODETIC COORDINATES
32.88865 LAT DEG
106.09965 LON DEG

UPPER AIR DATA
J410010841
JULIOMAN
TABLE VI. (CONT)

STATION ALTITUDE 4126.59 FEET MSL
7 DEC. 77 0800 HRS MST
ASCENSION NO. 841

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	
4900.0	127.1	-63.5		211.2	504.1	294.2	69.9	1.000047
4950.0	124.0	-64.1		206.6	563.3	295.4	69.9	1.000046
5000.0	120.9	-64.7		202.1	562.4	296.4	69.6	1.000045
5050.0	117.9	-65.4		197.7	561.6	296.8	69.3	1.000044
5100.0	115.0	-65.8		193.2	561.0	296.5	69.0	1.000043
5150.0	112.1	-66.0		188.6	560.7	296.2	68.6	1.000042
5200.0	109.3	-66.2		184.0	560.5	295.6	68.3	1.000041
5250.0	106.6	-66.4		179.6	560.2	295.0	67.9	1.000040
5300.0	103.9	-66.6		175.3	559.9	294.4	66.0	1.000039
5350.0	101.3	-66.8		171.1	559.6	293.8	63.8	1.000038
5400.0	98.9	-66.7		166.8	559.7	293.0	59.8	1.000037
5450.0	96.4	-66.4		162.4	560.1	292.0	53.6	1.000036
5500.0	94.0	-66.1		158.1	560.6	290.6	47.5	1.000035
5550.0	91.6	-65.8		153.9	561.0	288.7	40.8	1.000034
5600.0	89.3	-65.4		149.8	561.5	285.3	31.1	1.000033
5650.0	87.1	-65.9		146.4	560.8	278.8	21.6	1.000033
5700.0	84.9	-67.0		143.5	559.3	262.9	12.8	1.000032
5750.0	82.7	-68.1		140.6	557.8	240.8	8.2	1.000031
5800.0	80.7	-69.3		137.8	556.3	195.3	6.6	1.000031
5850.0	78.6	-71.4		135.1	554.7	194.7	5.4	1.000030
5900.0	76.6	-71.5		132.4	553.2	231.3	4.0	1.000029
5950.0	74.7	-71.7		129.1	552.9	273.6	5.8	1.000029
6000.0	72.8	-71.7		125.8	552.9	290.1	10.1	1.000028
6050.0	70.9	-71.7		122.6	552.9	295.4	14.5	1.000027
6100.0	69.1	-72.3		119.8	552.2	295.1	18.3	1.000027
6150.0	67.3	-73.4		117.3	550.6	294.8	22.1	1.000026
6200.0	65.6	-72.9		114.1	551.3	294.2	23.1	1.000025
6250.0	63.9	-73.3		109.8	554.9	293.4	22.7	1.000024
6300.0	62.3	-67.7		105.6	558.4	292.4	21.9	1.000024
6350.0	60.7	-65.1		101.7	561.9	290.8	17.0	1.000023

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STATION ALTITUDE 4124.59 FEET MSL
7 DEC. 77 0800 HRS MST
ASCENSION NO. 411

UPPER AIR DATA
J41JUG94)
HULLMAN
TABLE VI. (CONT)

GEODETIC COORDINATES
32.88865 LAT DEG
176.39965 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		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
6400.0	59.2	-64.1		98.7	563.0	287.9	12.0	1.000022
6450.0	57.8	-63.8		96.1	563.7	282.2	7.5	1.000021
6500.0	56.3	-63.5		93.6	564.1	266.8	3.7	1.000021
6550.0	54.9	-63.1		91.1	564.6	180.9	2.0	1.000020
6600.0	53.6	-62.8		88.7	565.1	182.0	1.8	1.000020
6650.0	52.3	-62.4		86.4	565.5	189.8	1.6	1.000019
6700.0	51.0	-62.1		84.2	566.0	235.5	1.5	1.000019
6750.0	49.7	-61.7		82.0	566.4	277.2	3.0	1.000018
6800.0	48.5	-61.5		79.9	566.8	288.7	4.9	1.000018
6850.0	47.4	-61.2		77.9	567.1	290.3	6.7	1.000017
6900.0	46.2	-61.0		75.9	567.4	300.6	8.6	1.000017
6950.0	45.1	-60.8		74.0	567.8	302.8	12.4	1.000016
7000.0	44.0	-60.5		72.1	568.1	303.3	18.2	1.000016
7050.0	42.9	-60.3		70.3	568.4	303.6	24.1	1.000016
7100.0	41.9	-60.0		68.5	568.8	305.4	22.0	1.000015
7150.0	40.9	-59.8		66.8	569.1	308.3	18.7	1.000015
7200.0	39.9	-59.5		65.1	569.4	313.2	14.4	1.000014
7250.0	38.9	-59.3		63.4	569.8	338.6	6.1	1.000014
7300.0	38.0	-59.0		61.8	570.1	75.2	6.2	1.000014
7350.0	37.1	-58.8		60.2	570.4	89.4	9.9	1.000013
7400.0	36.2	-58.5		58.7	570.8	83.1	9.5	1.000013
7450.0	35.3	-58.3		57.2	571.1	76.5	9.4	1.000013
7500.0	34.5	-58.0		55.8	571.4	76.6	8.6	1.000012
7550.0	33.6	-57.8		54.4	571.8	78.3	7.6	1.000012
7600.0	32.8	-57.5		53.0	572.1	82.4	6.8	1.000012
7650.0	32.0	-57.3		51.7	572.4	96.8	6.8	1.000012
7700.0	31.2	-57.0		50.4	572.7	119.3	7.2	1.000011
7750.0	30.5	-56.8		49.1	573.1	117.0	7.6	1.000011
7800.0	29.8	-56.7		47.9	573.1	117.3	7.6	1.000011
7850.0	29.0	-57.1		46.8	572.6	117.0	7.6	1.000010

UPPER AIR DATA
 3410010941
 HULLMAN
 GFODETTIC COORDINATES
 32.88865 LAT DEG
 106.09965 LON DEG

STATION ALTITUDE 4124.59 FEET MSL
 7 DEC. 77 0400 HRS MST
 ASCENSION NO. 841

TABLE VI. (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		WIND DATA	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE					
7900.0	29.3	-57.4		117.0	572.2	117.0	7.3	1.000016
7950.0	27.7	-57.8		117.0	571.7	117.0	6.8	1.000010
8000.0	27.2	-57.6		117.0	572.0	117.0	6.3	1.000010
8050.0	26.4	-56.7		117.0	573.1	117.0	5.2	1.000009
8100.0	25.7	-55.8		117.0	574.3	117.0	4.1	1.000009
8150.0	25.1	-55.0		117.0	575.5	117.0	3.1	1.000009
8200.0	24.5	-54.5		117.0	576.1	117.0	3.1	1.000009
8250.0	23.9	-54.5		117.0	576.1	117.0	3.2	1.000008
8300.0	23.4	-54.4		117.0	576.1	117.0	3.3	1.000008
8350.0	22.8	-54.4		117.0	576.2	117.0	3.8	1.000008
8400.0	22.3	-54.4		117.0	576.2	117.0	4.3	1.000008
8450.0	21.7	-54.4		123.6	576.2	123.6	3.1	1.000008
8500.0	21.2	-54.4		193.0	576.3	193.0	1.1	1.000008
8550.0	20.7	-54.3		262.0	576.3	262.0	3.2	1.000007
8600.0	20.2	-54.3		270.6	576.3	270.6	5.4	1.000007
8650.0	19.8	-54.1		273.8	576.5	273.8	7.4	1.000007
8700.0	19.3	-53.8		275.6	576.9	275.6	9.4	1.000007
8750.0	18.8	-53.5		276.8	577.3	276.8	11.4	1.000007
8800.0	18.4	-53.2		274.0	577.8	274.0	11.3	1.000006
8850.0	18.0	-52.9		269.2	578.2	269.2	10.5	1.000006
8900.0	17.5	-52.6		263.5	578.6	263.5	9.8	1.000006
8950.0	17.1	-52.3		257.1	579.0	257.1	9.1	1.000006
9000.0	16.7	-52.0		256.8	579.4	256.8	10.2	1.000006
9050.0	16.3	-51.7		262.3	579.8	262.3	13.3	1.000006
9100.0	15.9	-51.4		265.7	580.1	265.7	16.5	1.000006
9150.0	15.6	-51.6		268.0	579.9	268.0	19.8	1.000005
9200.0	15.2	-51.7		269.1	579.7	269.1	22.8	1.000005
9250.0	14.8	-51.9		267.3	579.5	267.3	24.7	1.000005
9300.0	14.5	-52.0		265.9	579.4	265.9	26.5	1.000005
9350.0	14.2	-52.1		264.6	579.2	264.6	28.3	1.000005

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STATION ALTITUDE 4124.59 FEET MSL 7 DEC. 77 23.3 HRS MST ASCENSION IS. 841				UPPER AIR DATA 341031J841 HULLOMAN				GEODETIC COORDINATES 32.88865 LAT DEG 106.09965 LON DEG			
TABLE VI. (CONT)											
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS		WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION	
		AIR DEGREES	DEWPOINT CENTIGRADE								
94000.0	13.9	-52.3			21.8	579.0		263.4	30.2	1.000005	
94500.0	13.5	-52.4			21.3	578.8		262.5	29.9	1.000005	
95000.0	13.2	-52.6			20.8	578.6		261.5	29.3	1.000005	
95500.0	12.7	-52.7			20.3	578.4		261.5	28.7	1.000005	
96000.0	12.6	-52.9			19.9	578.2		259.5	28.2	1.000004	
96500.0	12.3	-53.0			19.4	578.0		260.5	27.9	1.000004	
97000.0	12.0	-53.1			19.0	577.8		262.8	28.0	1.000004	
97500.0	11.7	-53.3			18.6	577.7		265.2	28.1	1.000004	
98000.0	11.4	-53.2			18.1	577.7		267.5	28.3	1.000004	
98500.0	11.2	-52.6			17.6	578.6		268.4	27.8	1.000004	
99000.0	10.9	-51.9			17.2	579.5		266.0	25.8	1.000004	
99500.0	10.6	-51.3			16.7	580.3		263.1	23.8	1.000004	
100000.0	10.4	-50.6			16.3	581.2		259.9	22.0	1.000004	
100500.0	10.2	-49.9			15.9	582.0		255.9	20.2	1.000004	
101000.0	9.9	-49.5			15.5	582.6		251.1	20.6	1.000003	
101500.0	9.7	-49.6			15.1	582.5		246.5	21.1	1.000003	
102000.0	9.5	-49.7			14.8	582.4		242.2	21.8	1.000003	
102500.0	9.2	-49.8			14.4	582.2		233.1	22.5	1.000003	
103000.0	9.0	-49.9			14.1	582.1				1.000003	
103500.0	8.8	-50.0			13.8	582.0				1.000003	
104000.0	8.6	-50.0			13.4	581.9				1.000003	
104500.0	8.4	-50.1			13.1	581.8				1.000003	
105000.0	8.2	-50.2			12.8	581.7				1.000003	
105500.0	8.0	-50.3			12.5	581.6				1.000003	
106000.0	7.8	-50.4			12.3	581.5				1.000003	

STATION ALTITUDE 4126.59 FEET MSL
7 DEC. 77
ASCENSION NO. 441

MANDATORY LEVELS
3410210841
MULLOMAN
TABLE VII.

GEODETIC COORDINATES
32.48865 LAT DEG
106.09965 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4868.	5.9	-4.5	47.	188.5	4.6
800.0	6510.	8.8	-13.2	25.	221.4	9.4
750.0	8264.	9.4	-15.4	16.	299.9	16.9
700.0	10135.	7.4	-18.3	14.	307.2	21.3
650.0	12120.	3.5	-21.5	14.	294.7	28.0
600.0	14233.	-9	-17.5	27.	289.5	34.4
550.0	16497.	-4.8	-21.0	27.	291.0	34.9
500.0	18974.	-11.8	-25.5	31.	301.8	34.1
450.0	21561.	-15.9	-34.0	19.	312.0	39.2
400.0	24431.	-23.6	-43.1	20.	303.8	37.0
350.0	27562.	-31.6	-48.0	18.	316.0	41.4
300.0	31092.	-40.7			314.9	35.2
250.0	35079.	-49.7			310.3	45.3
200.0	39312.	-54.8			288.7	69.6
175.0	42592.	-58.3			286.5	81.9
150.0	45745.	-62.3			287.1	69.2
125.0	49433.	-63.9			295.5	69.9
100.0	52879.	-66.9			293.0	59.6
80.0	58306.	-69.5			193.1	5.5
70.0	60896.	-71.7			295.0	18.9
60.0	63901.	-64.3			287.0	11.0
50.0	67582.	-61.8			285.4	4.1
40.0	72138.	-59.5			328.4	7.8
30.0	78384.	-56.0			117.8	7.6
25.0	81874.	-54.2			117.0	3.1
20.0	86564.	-54.3			275.4	9.1
15.0	92663.	-51.4			265.7	26.8
10.0	101272.	-49.5			244.2	21.5

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

GEODETIC COORDINATES
32.57209 LAT DEG
106.29439 LON DEG

SIGNIFICANT LEVEL DATA

3410200001

DDN

TABLE VIII.

STATION ALTITUDE 4003.69 FEET MSL
7 DEC. 77 0800 HRS MST
ASCENSION NO. 1

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	
879.1	-0.3	-1.6	91.0
850.0	6.7	-12.1	15.0
839.8	8.9	-21.0	10.0
805.3	8.7	-21.2	10.0
794.8	9.7	-20.4	10.0
733.3	8.0	-21.7	10.0
700.0	7.8	-21.9	10.0
637.8	2.0	-26.4	10.0
548.8	-5.3	-32.1	10.0
506.8	-11.7	-37.1	10.0
500.0	-12.0	-37.3	10.0
443.6	-17.0	-41.3	10.0
400.0	-23.7	-46.6	10.0
377.8	-27.6	-49.7	10.0
300.0	-41.3		
266.8	-48.3		
250.0	-48.9		
215.6	-54.4		
200.0	-54.9		
183.8	-56.6		
150.0	-63.7		
139.8	-65.3		
136.3	-64.3		
116.8	-66.9		
100.0	-66.3		
86.3	-70.6		
73.8	-70.6		
70.0	-72.6		
65.3	-74.0		
56.8	-65.2		

BEST AVAILABLE COPY

STATION ALTITUDE 4003.69 FEET MSL
 7 DEC. 77
 0805 HRS MST
 ASCENSION NO. 1

SIGNIFICANT LEVEL DATA
 3410200001
 UOV
 TABLE VIII. (CONT)

GEOMETRIC COORDINATES
 32.51209 LAT NEG
 106.29439 LONG DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
50.0	67200.1	-61.4		
46.7	68586.0	-59.9		

BEST AVAILABLE COPY

STATION ALTITUDE 4003.69 FEET MSL
 7 DEC. 77 0805 HRS MST
 ASCENSION NO. 1

UPPER AIR DATA
 3410200701
 DON
 TABLE IX.

GEOMETRIC COORDINATES
 32.57209 LAT NFG
 106.29439 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
4003.7	679.1	-3	91.0	1114.8	644.3	330.0	1.9	1.000277
4500.0	862.9	3.6	49.1	1084.5	648.6	291.5	1.8	1.000261
5000.0	846.9	7.3	13.6	1051.4	652.6	261.0	2.4	1.000241
5500.0	831.4	8.9	10.0	1026.6	654.4	245.5	3.4	1.000234
6000.0	816.2	8.6	10.0	1008.1	654.5	262.0	5.8	1.000230
6500.0	801.3	9.1	10.0	988.0	654.7	274.6	9.7	1.000226
7000.0	786.7	9.5	10.0	969.1	655.1	281.4	13.6	1.000222
7500.0	772.3	9.1	10.0	952.7	654.7	285.7	17.3	1.000218
8000.0	758.2	8.7	10.0	936.6	654.2	292.7	18.5	1.000214
8500.0	744.5	8.3	10.0	920.8	653.8	297.6	19.8	1.000210
9000.0	730.7	8.0	10.0	905.0	653.4	295.5	19.9	1.000207
9500.0	717.3	7.9	10.0	886.6	653.3	295.1	20.6	1.000203
10000.0	704.2	7.6	10.0	872.6	653.2	297.2	22.2	1.000199
10500.0	691.2	7.0	10.0	859.0	652.3	298.6	24.7	1.000196
11000.0	676.4	5.8	10.0	846.6	650.9	299.4	27.4	1.000193
11500.0	665.6	4.7	10.0	834.4	649.5	295.6	28.0	1.000190
12000.0	653.4	3.5	10.0	822.4	648.1	293.0	28.5	1.000187
12500.0	641.3	2.3	10.0	810.6	646.8	292.8	28.9	1.000184
13000.0	629.2	1.3	10.0	798.2	645.6	292.9	29.3	1.000181
13500.0	617.3	.4	10.0	785.8	644.5	293.3	29.6	1.000178
14000.0	605.5	-.5	10.0	773.5	643.4	294.7	31.5	1.000175
14500.0	594.0	-1.5	10.0	761.4	642.3	295.9	33.6	1.000172
15000.0	582.8	-2.4	10.0	749.5	641.2	296.3	35.7	1.000170
15500.0	571.7	-3.3	10.0	737.2	640.0	296.9	36.6	1.000167
16000.0	560.8	-4.2	10.0	726.4	638.9	297.6	36.6	1.000164
16500.0	550.2	-5.2	10.0	715.0	637.8	297.9	36.4	1.000161
17000.0	539.5	-6.7	10.0	705.1	636.0	298.2	36.1	1.000159
17500.0	529.0	-8.3	10.0	695.5	634.1	299.2	35.8	1.000157
18000.0	518.7	-9.8	10.0	686.1	632.2	299.6	34.9	1.000154
18500.0	508.6	-11.4	10.0	676.8	630.3	298.4	32.7	1.000152

STATION ALTITUDE 4003.69 FEET MSL
7 DEC. 77 0805 HRS MST
ASCENSION NO. 1

UPPER AIR DATA
3410200001
70N
TABLE IX. (CONT)

GEOPHTIC COORDINATES
32.57209 LAT NEG
106.29439 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
19000.0	498.5	-12.1	-37.4	10.0	665.2	629.5	296.6	30.3	1.000150
19500.0	488.6	-13.0	-38.1	10.0	654.1	628.5	294.0	27.8	1.000147
20000.0	478.9	-13.6	-38.7	10.0	643.1	627.4	299.5	27.9	1.000144
20500.0	469.3	-14.7	-39.4	10.0	632.4	626.4	306.6	29.2	1.000142
21000.0	460.0	-15.2	-40.1	10.0	621.8	625.4	312.8	32.5	1.000140
21500.0	450.6	-16.3	-40.7	10.0	611.4	624.3	314.2	35.6	1.000137
22000.0	441.7	-17.3	-41.5	10.0	601.4	623.2	312.6	38.3	1.000135
22500.0	432.7	-18.6	-42.6	10.0	592.2	621.6	311.7	39.6	1.000133
23000.0	423.9	-20.0	-43.6	10.0	583.2	619.9	309.8	39.6	1.000131
23500.0	415.3	-21.3	-44.7	10.0	574.3	618.3	305.4	37.6	1.000129
24000.0	406.6	-22.6	-45.7	10.0	565.6	616.7	301.5	37.4	1.000127
24500.0	398.4	-24.0	-46.8	10.0	557.0	615.0	298.0	38.2	1.000125
25000.0	390.1	-25.4	-47.9	10.0	548.6	613.2	293.6	38.8	1.000123
25500.0	382.0	-26.8	-49.1	10.0	540.3	611.4	308.8	39.5	1.000121
26000.0	373.9	-28.2	-50.6	9.6**	531.8	609.7	311.9	36.9	1.000119
26500.0	365.6	-29.5	-52.5	8.6**	523.1	608.1	314.4	38.5	1.000117
27000.0	357.4	-30.8	-54.5	7.7**	514.5	606.5	314.1	38.7	1.000115
27500.0	350.2	-32.1	-56.6	6.7**	506.1	604.8	314.4	39.0	1.000113
28000.0	342.6	-33.4	-58.8	5.8**	497.8	603.2	315.6	39.4	1.000111
28500.0	335.2	-34.7	-61.1	4.8**	489.7	601.6	316.2	39.8	1.000109
29000.0	328.0	-36.0	-63.7	3.9**	481.8	599.9	316.2	40.3	1.000107
29500.0	320.9	-37.3	-66.7	2.9**	474.0	598.3	316.3	38.7	1.000106
30000.0	314.0	-38.6	-70.4	2.0**	466.3	596.6	316.6	36.9	1.000104
30500.0	307.2	-39.9	-75.6	1.0**	458.8	595.0	317.4	37.1	1.000102
31000.0	300.5	-41.2	-91.3	.1**	451.4	593.3	317.8	38.0	1.000101
31500.0	293.6	-42.6			443.8	591.6	317.5	40.4	1.000099
32000.0	287.1	-43.9			436.4	589.8	316.9	42.4	1.000097
32500.0	280.6	-45.3			429.1	588.1	316.3	43.9	1.000096
33000.0	274.3	-46.6			421.9	586.3	316.8	44.3	1.000094
33500.0	268.1	-48.0			414.9	584.6	317.5	44.2	1.000092

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

STATION ALTITUDE 4003.69 FEET MSL
 1 DEC. 77
 ASCENSION NO. 1
 UPPER AIR DATA
 3410200001
 70N
 TABLE IX. (CONT)
 GEOMETRIC COORDINATES
 32.57209 LAT NFR
 106.29439 LON NEG

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(TA)	SPEED KNOTS	INDEX OF REFRACTION
34000.0	262.0	-46.5			406.2	584.0	313.7	42.2	1.000090
34500.0	250.0	-48.7			397.2	583.7	308.2	40.5	1.000088
35000.0	250.1	-48.9			368.5	583.4	298.6	41.9	1.000087
35500.0	244.3	-49.8			380.9	582.3	291.5	45.0	1.000085
36000.0	236.6	-50.6			373.5	581.1	291.9	52.4	1.000083
36500.0	233.0	-51.5			366.3	580.0	292.4	59.6	1.000082
37000.0	227.6	-52.4			359.2	578.8	293.5	65.5	1.000080
37500.0	222.3	-53.5			352.2	577.7	294.5	71.4	1.000078
38000.0	217.1	-54.2			345.4	576.5	293.0	71.6	1.000077
38500.0	212.0	-54.5			337.8	576.0	291.5	71.9	1.000075
39000.0	207.0	-54.7			330.1	575.8	289.7	72.3	1.000074
39500.0	202.1	-54.8			322.5	575.6	287.9	73.2	1.000072
40000.0	197.3	-55.2			315.4	575.2	286.3	76.3	1.000070
40500.0	192.6	-55.7			308.6	574.5	285.1	79.1	1.000069
41000.0	188.1	-56.1			301.9	573.9	285.0	81.1	1.000067
41500.0	183.6	-56.6			295.4	573.2	285.0	82.6	1.000066
42000.0	179.2	-57.5			289.4	572.1	285.9	82.7	1.000064
42500.0	174.8	-58.5			283.5	571.0	286.8	82.9	1.000063
43000.0	170.6	-59.2			277.8	569.8	287.5	83.6	1.000062
43500.0	166.5	-60.1			272.1	568.7	288.3	84.2	1.000061
44000.0	162.4	-60.9			266.6	567.5	288.4	84.3	1.000059
44500.0	158.5	-61.6			261.2	566.4	288.5	84.4	1.000058
45000.0	154.7	-62.6			255.9	565.2	288.4	83.4	1.000057
45500.0	150.9	-63.5			250.7	564.1	288.1	82.0	1.000056
46000.0	147.2	-64.1			245.3	563.2	287.8	80.3	1.000055
46500.0	143.6	-64.7			239.9	562.5	287.5	78.4	1.000053
47000.0	140.0	-65.5			234.6	561.7	287.3	77.3	1.000052
47500.0	136.5	-66.4			227.8	562.9	287.3	77.2	1.000051
48000.0	133.1	-67.7			222.5	562.5	287.9	77.1	1.000050
48500.0	129.8	-68.1			217.4	561.9	289.1	77.1	1.000048

GEOMETRIC COORDINATES
32.57209 LAT DEG
106.29439 LON DEG

UPPER AIR DATA
3410200001
NON
TABLE IX. (CONT)

STATION ALTITUDE 4003.69 FEET MSL
7 DEC. 77 0805 HRS MST
ASCENSION NO. 1

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			METER	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
44000.0	120.0	-65.5				212.4	501.3	290.6	75.4	1.000007
44500.0	123.5	-66.0				207.6	560.8	292.3	72.3	1.000046
45000.0	120.4	-66.4				202.8	560.2	293.5	69.2	1.000045
50500.0	117.4	-66.8				198.2	559.6	294.0	66.0	1.000044
51000.0	114.5	-66.8				193.3	559.6	294.0	63.2	1.000043
51500.0	111.6	-66.7				188.4	559.7	293.5	60.5	1.000042
52000.0	108.8	-66.6				183.6	559.9	293.1	56.3	1.000041
52500.0	106.1	-66.5				178.9	560.0	292.9	50.1	1.000040
53000.0	103.4	-66.4				174.3	560.1	292.6	43.6	1.000039
53500.0	100.9	-66.3				169.9	560.3	292.8	36.8	1.000038
54000.0	98.3	-66.8				166.0	559.6	293.1	30.0	1.000037
54500.0	95.8	-67.5				162.4	558.6	291.6	26.3	1.000036
55000.0	93.4	-68.3				158.9	557.6	289.5	23.1	1.000035
55500.0	91.1	-69.0				155.4	556.6	286.4	20.0	1.000035
56000.0	88.8	-69.8				152.1	555.6	280.2	18.0	1.000034
56500.0	86.5	-70.5				148.8	554.6	272.7	16.3	1.000033
57000.0	84.3	-70.6				145.1	554.4	266.2	14.6	1.000032
57500.0	82.2	-70.6				141.4	554.4	262.0	12.6	1.000031
58000.0	80.1	-70.6				137.8	554.4	258.5	11.0	1.000031
58500.0	78.1	-70.6				134.2	554.4	265.1	10.6	1.000030
59000.0	76.1	-70.6				130.8	554.4	272.0	10.3	1.000029
59500.0	74.1	-70.6				127.5	554.4	276.3	11.1	1.000028
60000.0	72.2	-71.4				124.7	553.3	279.8	11.9	1.000026
60500.0	70.4	-72.4				122.1	552.0	282.5	13.0	1.000027
61000.0	68.6	-73.0				119.3	551.1	284.6	14.2	1.000027
61500.0	66.8	-73.5				116.0	550.4	286.7	15.4	1.000026
62000.0	65.1	-73.8				113.7	550.1	288.9	16.8	1.000025
62500.0	63.4	-72.2				109.9	552.3	290.8	18.2	1.000024
63000.0	61.8	-70.5				106.3	554.5	291.6	16.8	1.000024
63500.0	60.2	-68.9				102.7	556.0	292.7	15.4	1.000023

STATION ALTITUDE 4003.69 FEET MSL
7 DEC. 77
ASCENSION NO. 1

UPPER AIR DATA
34102000J1
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TABLE IX. (CONT)

GEODETIC COORDINATES
32.57209 LAT DEG
106.29439 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
64000.0	58.7	-67.3		99.4	559.0	293.1	12.4	1.000022
64500.0	57.2	-65.7		96.1	561.2	293.1	8.3	1.000021
65000.0	55.8	-64.7		93.2	562.5	291.3	4.6	1.000021
65500.0	54.4	-63.9		90.6	563.5	274.2	2.5	1.000020
66000.0	53.1	-63.2		88.1	564.5	205.7	1.5	1.000020
66500.0	51.8	-62.4		85.6	565.5	199.8	2.6	1.000019
67000.0	50.5	-61.7		83.2	566.5	202.7	3.8	1.000019
67500.0	49.3	-61.1		80.9	567.3			1.000018
68000.0	48.1	-60.5		78.8	568.1			1.000018
68500.0	46.9	-60.0		76.6	568.8			1.000017

GEOMETRIC COORDINATES
32.57209 LAT DEG
106.29439 LON DEG

MANDATORY LEVELS
341020J001
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TABLE X.

STATION ALTITUDE 4003.69 FEET MSL
7 DEC. 77
ASCENSION NO. 1
0805 HRS MST

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4902.	6.7	-16.1	15.	265.5	2.2
800.0	6544.	9.2	-20.8	10.	275.3	10.1
750.0	8296.	8.5	-21.3	10.	296.5	19.4
700.0	10161.	7.8	-21.9	10.	297.6	22.8
650.0	12146.	3.2	-25.4	10.	292.9	28.7
600.0	14256.	-1.0	-28.7	10.	295.5	32.6
550.0	16515.	-5.2	-32.0	10.	297.9	36.4
500.0	18936.	-12.0	-37.3	10.	296.8	50.6
450.0	21558.	-16.4	-40.8	10.	314.0	56.0
400.0	24424.	-23.7	-46.6	10.	298.3	38.1
350.0	27570.	-32.1	-56.6	7.**	314.6	39.1
300.0	31072.	-41.3			317.7	38.5
250.0	35049.	-48.9			296.8	42.3
200.0	39777.	-54.9			206.7	75.3
175.0	42559.	-58.3			287.0	83.1
150.0	45701.	-63.7			288.0	81.1
125.0	49352.	-65.8			292.2	72.5
100.0	53783.	-66.3			293.0	31.0
80.0	58157.	-70.6			262.6	10.7
70.0	60751.	-72.6			284.3	14.0
60.0	63728.	-68.7			293.1	13.0
50.0	67385.	-61.4				

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

BEST AVAILABLE COPY

GEODETIC COORDINATES
33.16712 LAT NEG
106.49511 LON NEG

SIGNIFICANT LEVEL DATA
3410030469
JALLEN
TABLE XI.

STATION ALTITUDE 4051.00 FEET MSL
7 DEC. 77 0900 HRS MST
ASCENSION NO. 469

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
875.6	4051.0	4.8	-6.7	43.0
865.9	4352.4	4.5	-7.0	43.0
850.0	4847.7	4.5	-5.3	49.0
838.8	5203.1	5.8	-5.5	44.0
825.3	5639.6	6.9	-7.1	36.0
814.8	5986.2	9.5	-10.6	23.0
801.3	6441.6	10.9	-12.5	18.0
771.3	7481.1	9.3	-14.5	17.0
747.4	8339.1	11.3	-14.4	15.0
700.0	10119.0	7.5	-17.4	15.0
596.8	14349.6	-1.9	-15.6	34.0
562.8	15871.4	-4.5	-17.9	34.0
504.3	18666.6	-11.5	-26.7	27.0
500.0	18881.8	-11.4	-28.8	22.0
486.3	19580.3	-11.1	-30.1	19.0
427.8	22747.2	-20.3	-37.8	19.0
400.0	24367.8	-23.2	-41.9	16.0
337.3	28364.9	-34.2	-50.1	18.0
300.0	31011.2	-41.0		
250.0	34975.9	-51.5		
238.8	35945.9	-53.0		
232.8	36483.5	-52.3		
200.0	39683.1	-54.1		
150.0	45607.9	-62.0		
100.0	53662.0	-69.1		
89.3	55871.5	-68.9		
81.3	57718.8	-65.7		
70.0	60641.5	-72.0		
68.5	61056.7	-73.2		
62.3	62884.6	-69.9		

STATION ALTITUDE 4051.00 FEET MSL
7 DEC. 77
ASCENSION NO. 469

SIGNIFICANT LEVEL DATA
3410030469
JALLEN
TABLE XI. (CONT)

GEODETIC COORDINATES
33.16712 LAT NEG
106.49511 LON NEG

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
57.3 64538.6	-62.6	
50.0 67290.8	-60.9	
32.8 75889.1	-58.2	
30.0 77725.5	-56.8	
26.8 80052.8	-57.0	
24.8 81660.2	-54.8	
20.0 86152.8	-53.5	

STATION ALTITUDE 4051.00 FEET MSL
7 DEC. 77 0900 HRS MST
ASCENSION NO. 469

UPPER AIR DATA
3410030469
JALLEN
TABLE XII.

GEODETIC COORDINATES
33.16712 LAT NEG
106.49511 LON NEG

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
4051.0	875.6	4.8	43.0	1095.7	650.0	45.0	1.0	1.000262
4500.0	861.1	4.5	44.8	1078.7	649.7	37.6	1.4	1.000259
5000.0	845.2	5.1	46.9	1056.4	650.4	33.3	1.8	1.000255
5500.0	829.6	6.5	38.6	1031.5	652.1	30.7	2.3	1.000248
6000.0	814.4	9.5	22.8	1002.3	655.4	9.7	.2	1.000236
6500.0	799.6	10.8	17.9	979.9	656.8	215.7	3.2	1.000229
7000.0	785.0	10.0	17.5	964.7	655.9	240.0	5.0	1.000225
7500.0	770.8	9.3	17.0	949.6	655.1	265.7	6.7	1.000221
8000.0	756.8	10.5	15.8	928.5	656.5	297.6	10.1	1.000216
8500.0	743.0	11.0	15.0	910.1	657.0	307.1	12.8	1.000212
9000.0	729.4	9.9	15.0	896.9	655.7	308.5	13.5	1.000208
9500.0	716.1	8.8	15.0	884.0	654.5	293.4	18.5	1.000205
10000.0	703.1	7.8	15.0	871.2	653.2	280.7	27.6	1.000202
10500.0	690.0	6.7	16.7	858.3	652.0	288.6	34.1	1.000199
11000.0	677.1	5.5	19.0	845.6	650.7	296.0	39.7	1.000197
11500.0	664.5	4.4	21.2	833.1	649.4	302.2	36.9	1.000194
12000.0	652.1	3.3	23.4	820.8	648.1	305.6	34.5	1.000192
12500.0	639.9	2.2	25.7	808.7	646.8	296.1	32.6	1.000189
13000.0	628.0	1.1	27.9	796.8	645.5	289.5	31.6	1.000187
13500.0	616.2	-.0	30.2	785.1	644.2	288.8	30.7	1.000184
14000.0	604.7	-1.1	32.4	773.5	642.9	291.7	31.9	1.000182
14500.0	593.4	-2.2	34.0	761.9	641.7	295.5	34.1	1.000179
15000.0	582.0	-3.0	34.0	749.8	640.7	296.9	35.7	1.000176
15500.0	570.9	-3.9	34.0	737.8	639.6	297.5	36.8	1.000173
16000.0	560.0	-4.8	33.7	726.3	638.5	296.8	36.9	1.000169
16500.0	549.1	-6.1	32.4	715.6	636.9	295.9	37.1	1.000166
17000.0	538.4	-7.3	31.2	705.0	635.4	294.7	37.3	1.000163
17500.0	527.9	-8.6	29.9	694.7	633.9	292.5	35.7	1.000160
18000.0	517.7	-9.8	28.7	684.5	632.4	290.3	34.3	1.000157
18500.0	507.6	-11.1	27.4	674.4	630.8	290.2	33.7	1.000154

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TABLE XII. (CONT)

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	497.7	-11.3	21.5	661.9	630.5	292.2	33.7	1.000150
19500.0	487.9	-11.1	19.3	648.4	630.7	296.2	34.6	1.000147
20000.0	478.1	-12.3	19.0	638.3	629.3	299.1	35.6	1.000145
20500.0	468.5	-13.8	19.0	629.1	627.5	301.1	36.5	1.000142
21000.0	459.1	-15.2	19.0	620.0	625.8	301.8	36.9	1.000140
21500.0	449.9	-16.7	19.0	611.0	624.0	301.9	37.1	1.000138
22000.0	440.9	-18.1	19.0	602.2	622.2	303.5	37.4	1.000136
22500.0	432.1	-19.6	19.0	593.5	620.4	305.7	37.6	1.000134
23000.0	423.3	-20.8	18.5	584.2	619.0	307.8	38.3	1.000131
23500.0	414.7	-21.6	17.6	574.3	617.9	309.9	39.0	1.000129
24000.0	406.1	-22.5	16.7	564.5	616.8	311.7	39.1	1.000127
24500.0	397.8	-23.6	16.1	555.1	615.5	313.1	39.2	1.000125
25000.0	389.4	-24.9	16.3	546.4	613.8	312.9	38.9	1.000123
25500.0	381.1	-26.3	16.6	537.9	612.1	311.9	38.9	1.000121
26000.0	373.1	-27.7	16.8	529.5	610.4	309.6	39.8	1.000119
26500.0	365.2	-29.1	17.1	521.2	608.7	308.0	40.5	1.000117
27000.0	357.5	-30.4	17.3	513.1	607.0	307.0	40.9	1.000115
27500.0	350.0	-31.8	17.6	505.2	605.2	306.3	40.8	1.000113
28000.0	342.6	-33.2	17.8	497.3	603.5	305.8	40.3	1.000111
28500.0	335.3	-34.5	17.1**	489.5	601.8	304.7	40.2	1.000109
29000.0	327.9	-35.8	13.7**	481.4	600.2	303.4	40.2	1.000107
29500.0	320.8	-37.1	10.3**	473.4	598.5	303.4	38.9	1.000106
30000.0	313.7	-38.4	6.9**	465.6	596.9	303.7	37.3	1.000104
30500.0	306.9	-39.7	3.5**	457.9	595.3	305.3	37.4	1.000102
31000.0	300.1	-41.0	.1**	450.3	593.6	307.1	38.0	1.000100
31500.0	293.3	-42.3		442.6	591.9	308.9	39.1	1.000099
32000.0	286.7	-43.6		435.1	590.2	310.6	40.4	1.000097
32500.0	280.1	-44.9		427.7	588.5	310.9	41.3	1.000095
33000.0	273.8	-46.3		420.4	586.8	310.6	42.1	1.000094
33500.0	267.6	-47.6		413.2	585.1	310.1	43.3	1.000092

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

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TABLE XII. (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION	
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS		
34000.0	261.5	-48.9			406.2	583.4		309.7	44.9	1.000090	
34500.0	255.5	-50.2			399.3	581.6		309.2	44.5	1.000089	
35000.0	249.7	-51.5			392.5	580.0		308.6	42.4	1.000087	
35500.0	243.9	-52.3			384.7	578.9		304.6	42.0	1.000086	
36000.0	238.2	-52.9			376.8	578.1		297.5	43.6	1.000084	
36500.0	232.6	-52.3			366.9	578.9		292.1	48.4	1.000082	
37000.0	227.2	-52.6			358.8	578.6		288.7	55.7	1.000080	
37500.0	221.8	-52.9			350.8	578.2		288.0	61.9	1.000078	
38000.0	216.6	-53.2			343.0	577.8		288.4	67.5	1.000076	
38500.0	211.6	-53.4			335.4	577.5		288.5	70.9	1.000075	
39000.0	206.6	-53.7			328.0	577.1		288.6	73.5	1.000073	
39500.0	201.7	-54.0			320.7	576.7		288.6	74.9	1.000071	
40000.0	196.9	-54.5			313.8	576.0		288.4	75.8	1.000070	
40500.0	192.2	-55.2			307.2	575.2		288.5	76.9	1.000068	
41000.0	187.6	-55.9			300.8	574.3		288.7	78.0	1.000067	
41500.0	183.1	-56.5			294.5	573.4		288.8	76.6	1.000066	
42000.0	178.7	-57.2			288.3	572.5		288.8	73.6	1.000064	
42500.0	174.4	-57.9			282.2	571.6		288.6	70.0	1.000063	
43000.0	170.2	-58.5			276.3	570.7		288.3	66.1	1.000062	
43500.0	166.2	-59.2			270.5	569.9		288.0	64.1	1.000060	
44000.0	162.2	-59.9			264.9	569.0		287.8	63.5	1.000059	
44500.0	158.3	-60.5			259.3	568.1		287.7	63.3	1.000058	
45000.0	154.5	-61.2			253.9	567.2		287.6	63.7	1.000057	
45500.0	150.8	-61.9			248.6	566.3		287.6	64.3	1.000055	
46000.0	147.1	-62.3			243.0	565.6		287.6	65.6	1.000054	
46500.0	143.4	-62.8			237.5	565.0		287.7	67.0	1.000053	
47000.0	139.8	-63.2			232.1	564.5		287.6	67.1	1.000052	
47500.0	136.4	-63.7			226.8	563.9		287.5	66.9	1.000051	
48000.0	133.0	-64.1			221.6	563.3		287.7	66.3	1.000049	
48500.0	129.7	-64.5			216.6	562.7		288.7	65.1	1.000048	

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49000.0	126.5	-65.0			211.6	562.1	289.9	63.9	1.000047
49500.0	123.3	-65.4			206.8	561.5	291.9	62.8	1.000046
50000.0	120.2	-65.9			202.1	560.9	293.8	61.7	1.000045
50500.0	117.3	-66.3			197.5	560.3	294.7	60.1	1.000044
51000.0	114.3	-66.8			193.0	559.7	295.7	58.4	1.000043
51500.0	111.5	-67.2			188.6	559.1	295.2	57.2	1.000042
52000.0	108.7	-67.6			184.3	558.5	294.7	56.0	1.000041
52500.0	106.0	-68.1			180.1	557.9	294.0	54.7	1.000040
53000.0	103.4	-68.5			176.0	557.3	293.1	53.4	1.000039
53500.0	100.8	-69.0			172.0	556.7	293.1	51.9	1.000038
54000.0	98.3	-69.1			167.8	556.5	293.6	50.1	1.000037
54500.0	95.8	-69.0			163.5	556.6	294.4	47.8	1.000036
55000.0	93.4	-69.0			159.3	556.7	296.0	44.3	1.000035
55500.0	91.0	-68.9			155.3	556.7	297.8	40.9	1.000035
56000.0	88.7	-68.7			151.2	557.1	298.4	35.1	1.000034
56500.0	86.5	-67.8			146.7	558.3	299.2	29.2	1.000033
57000.0	84.3	-66.9			142.5	559.4	298.8	23.5	1.000032
57500.0	82.2	-66.1			138.3	560.6	296.6	17.8	1.000031
58000.0	80.1	-66.3			135.0	560.3	292.4	12.3	1.000030
58500.0	78.1	-67.4			132.2	558.8	286.7	9.7	1.000029
59000.0	76.1	-68.5			129.6	557.4	277.0	7.2	1.000029
59500.0	74.2	-69.5			127.0	555.9	267.2	5.7	1.000028
60000.0	72.3	-70.6			124.4	554.4	261.9	4.9	1.000028
60500.0	70.5	-71.7			121.9	552.9	256.3	4.3	1.000027
61000.0	68.7	-73.0			119.6	551.1	270.7	5.3	1.000027
61500.0	66.9	-72.4			116.2	552.0	279.8	6.7	1.000026
62000.0	65.2	-71.5			112.7	553.2	287.0	9.1	1.000025
62500.0	63.6	-70.6			109.3	554.5	291.1	11.9	1.000024
63000.0	61.9	-69.4			105.9	556.1	293.5	12.6	1.000024
63500.0	60.4	-67.2			102.1	559.1	295.8	11.5	1.000023

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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	58.9	-65.0		98.5	562.1	298.5	10.2	1.000022
64500.0	57.4	-62.8		95.1	565.1	302.7	7.6	1.000021
65000.0	56.0	-62.3		92.5	565.7	310.8	5.2	1.000021
65500.0	54.6	-62.0		90.1	566.1	316.6	3.9	1.000020
66000.0	53.3	-61.7		87.8	566.5	318.3	3.3	1.000020
66500.0	52.0	-61.4		85.5	566.9	319.7	2.8	1.000019
67000.0	50.7	-61.1		83.3	567.3	312.5	3.0	1.000019
67500.0	49.5	-60.8		81.2	567.7	306.2	3.2	1.000018
68000.0	48.3	-60.7		79.2	567.9	299.9	3.5	1.000018
68500.0	47.1	-60.5		77.2	568.1	294.4	4.0	1.000017
69000.0	46.0	-60.4		75.3	568.3	290.2	4.6	1.000017
69500.0	44.9	-60.2		73.4	568.5	292.0	4.4	1.000016
70000.0	43.8	-60.0		71.6	568.7	294.3	4.2	1.000016
70500.0	42.7	-59.9		69.8	568.9	297.2	3.6	1.000016
71000.0	41.7	-59.7		68.0	569.1	303.4	2.5	1.000015
71500.0	40.7	-59.6		66.3	569.3	319.3	1.4	1.000015
72000.0	39.7	-59.4		64.7	569.5	345.0	1.4	1.000014
72500.0	38.7	-59.3		63.1	569.8	1.8	1.8	1.000014
73000.0	37.8	-59.1		61.5	570.0	12.2	2.3	1.000014
73500.0	36.9	-59.0		60.0	570.2	17.9	3.0	1.000013
74000.0	36.0	-58.8		58.5	570.4	21.3	3.7	1.000013
74500.0	35.1	-58.6		57.0	570.6	26.6	4.5	1.000013
75000.0	34.3	-58.5		55.6	570.8	32.4	5.2	1.000012
75500.0	33.4	-58.3		54.2	571.0	36.7	6.1	1.000012
76000.0	32.6	-58.1		52.9	571.3	42.7	6.4	1.000012
76500.0	31.8	-57.7		51.5	571.8	48.8	6.6	1.000011
77000.0	31.1	-57.4		50.2	572.3	54.5	6.9	1.000011
77500.0	30.3	-57.0		48.9	572.8	63.7	5.8	1.000011
78000.0	29.6	-56.8		47.7	573.0	76.6	4.9	1.000011
78500.0	28.9	-56.9		46.5	572.9	90.0	4.2	1.000010

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TABLE XII. (CONT)

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
79000.0	28.2	-56.9		45.4	572.9	94.0	3.0	1.000010
79500.0	27.5	-57.0		44.4	572.8	103.3	1.8	1.000010
80000.0	26.9	-57.0		43.3	572.8	100.8	1.1	1.000010
80500.0	26.2	-56.4		42.2	573.6	69.6	1.4	1.000009
81000.0	25.6	-55.7		41.0	574.5	50.7	1.8	1.000009
81500.0	25.0	-55.0		39.9	575.4	43.0	2.1	1.000009
82000.0	24.4	-54.7		38.9	575.8	39.9	2.1	1.000009
82500.0	23.8	-54.6		38.0	576.0	36.7	2.1	1.00000A
83000.0	23.3	-54.4		37.0	576.2	54.3	2.0	1.00000A
83500.0	22.7	-54.3		36.1	576.4	92.3	2.7	1.00000A
84000.0	22.2	-54.1		35.3	576.6	110.2	4.0	1.00000A
84500.0	21.6	-54.0		34.4	576.8			1.00000A
85000.0	21.1	-53.8		33.6	576.9			1.000007
85500.0	20.6	-53.7		32.8	577.1			1.000007
86000.0	20.1	-53.5		32.0	577.3			1.000007

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 TABLE XIII.

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PRESSURE GEOPOTENTIAL		TEMPERATURE		RFL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4847.	4.5	-5.3	49.	34.4	1.7
800.0	6485.	10.8	-12.5	18.	214.7	3.1
750.0	8244.	11.1	-14.4	15.	305.9	12.3
700.0	10120.	7.5	-17.4	15.	280.8	29.6
650.0	12105.	3.1	-15.5	24.	303.6	34.0
600.0	14214.	-1.6	-15.6	33.	293.5	32.9
550.0	16470.	-6.0	-19.8	33.	295.9	37.1
500.0	18891.	-11.4	-28.8	22.	291.4	33.6
450.0	21524.	-16.7	-34.8	19.	301.9	37.2
400.0	24386.	-23.2	-41.9	16.	313.1	39.2
350.0	27538.	-31.8	-48.3	18.	306.2	40.7
300.0	31044.	-41.0			307.4	38.1
250.0	35020.	-51.5			308.5	42.1
200.0	39742.	-54.1			288.5	75.5
175.0	42529.	-57.8			288.6	69.1
150.0	45688.	-62.0			287.6	65.0
125.0	49360.	-65.2			291.8	62.9
100.0	53778.	-69.1			293.5	50.4
80.0	58175.	-66.4			288.9	10.5
70.0	60792.	-72.0			270.0	5.3
60.0	63789.	-66.6			298.4	10.3
50.0	67480.	-60.9			303.9	3.3
40.0	72047.	-59.5			355.9	1.6
30.0	77983.	-56.8			85.6	4.6
25.0	81778.	-55.0			39.3	2.1
20.0	86474.	-53.5				

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