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ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/8 4/2
12819A LANCE, MISSILE NUMBER 3974, ROUND NUMBER 350 ECL, 17 JUN--ETC(U)
JUN 80

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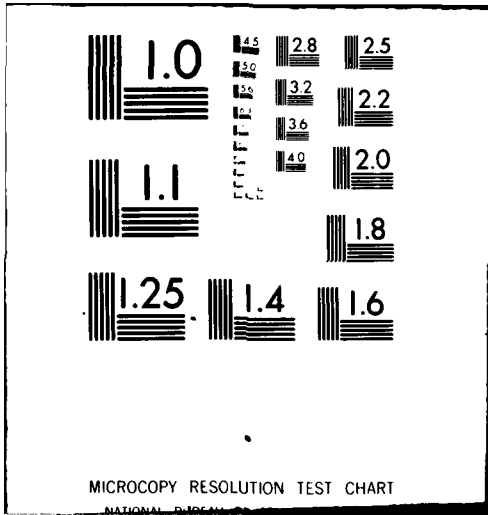
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White Sands Meteorological Team

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ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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INTRODUCTION

12819A LANCE , Missile Number 3974 , Round Number 350 ECL ,
was launched from Spec Site , White Sands Missile Range (WSMR), New Mexico,
at 0821:38 MDT on 17 June 1980 . The scheduled launch time was
0800 MDT .

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 Spec Site Met Site at T-0 minutes.

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

b. Upper Air

(1) Low level wind data were obtained from **single theodolite pibal observations** at:

SITE AND ALTITUDE

Spec 8000 ft AGL

Spec 12000 ft AGL

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to as high as possible feet in 500-foot increments.

SITE AND TIME

Jallen 0430 MDT

Stallion 0830 MDT

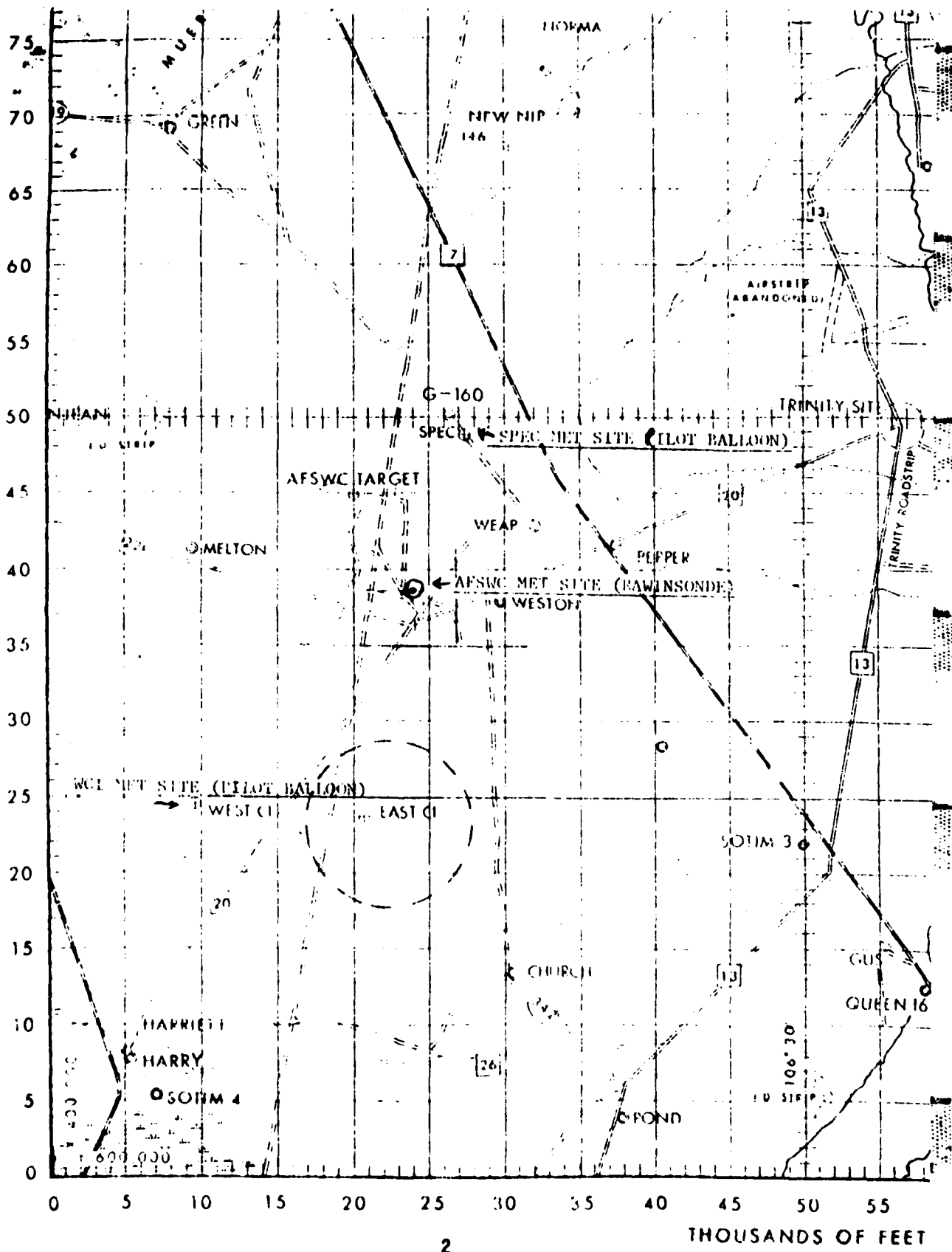


TABLE 1. Surface Observations taken at 0800 MDT,
 17 June 1980, at Spec Site, 12819A LANCE,
 Missile Number 3974, Round Number 350 ECL.

ELEVATION	no survey	FT/MSL
PRESSURE	857.9	MBS
TEMPERATURE	22.1	°C
RELATIVE HUMIDITY	52	%
DEW POINT	11.8	°C
DENSITY	1004	GM/M ³
WIND SPEED	02	KTS
WIND DIRECTION	075	DEGREES
CLOUD COVER	3	AC

PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM Spec Site DATE 17 June 1980 TIME 0800 MDT

COORDINATES (WSTM) X= no survey Y= _____ II= _____

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL _____ OR FEET AGL _____.

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
sfc	075	02
100	075	02
200	080	02
300	080	02
400	085	03
500	085	03
600	090	03
700	090	03
800	090	03
900	095	04
1000	095	04
1100	100	04
1200	100	04
1300	100	04
1400	100	04
1500	105	04
1600	105	04
1700	105	04
1800	105	04
1900	105	04
2000	110	04
2100	110	04
2200	110	04
2300	110	04
2400	105	04
2500	100	05
2600	95	05
2700	90	05
2800	85	06
2900	80	06
3000	70	06

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
3100	065	07
3200	060	07
3300	055	08
3400	050	08
3500	045	08
3600	045	09
3700	045	09
3800	045	10
3900	045	10
4000	040	10
4100	040	11
4200	040	12
4300	040	12
4400	040	12
4500	040	13
4600	040	13
4700	040	13
4800	035	13
4900	035	13
5000	035	12
5100	035	12
5200	035	12
5300	030	12
5400	030	12
5500	030	12
5600	030	12
5700	030	11
5800	030	11
5900	025	10
6000	025	10
6100	025	09

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
6100	025	09
6200	025	08
6300	025	08
6400	025	07
6500	020	07
6600	020	06
6700	015	06
6800	010	06
6900	360	06
7000	350	05
7100	340	05
7200	330	05
7300	320	05
7400	310	05
7500	300	05
7600	290	05
7700	225	05
7800	225	05
7900	230	06
8000	230	06
8100	235	07
8200	235	08
8300	240	08
8400	240	09
8500	245	09
8600	250	10
8700	250	11
8800	250	11
8900	250	11
9000	255	12
9100	255	12

STATION ALTITUDE 4051.00 FEET MSL
 17 JUNE 80
 ASCENSION NO. 163

SIGNIFICANT LEVEL DATA
 1690U30163
 JALLEN

TABLE 4.

GEODETIC COORDINATES	REL. HUM. PERCENT
33.16712 LAT DEG	33.0
106.49511 LON DEG	46.0
	28.0
	19.0
	20.0
	38.0
	68.0
	71.0
	69.0
	18.0
	17.0
	17.0
	19.0
	19.0

TEMPERATURE AIR DEGREE CENTIGRADE	TEMPERATURE DEWPOINT DEGREE CENTIGRADE	REL. HUM. PERCENT
19.1	2.5	33.0
26.5	13.9	46.0
27.4	7.3	28.0
25.0	-2	19.0
18.7	-4.7	20.0
2.9	-10.0	38.0
-6.1	-11.0	68.0
-7.1	-11.4	71.0
-13.6	-18.0	69.0
-12.4	-31.7	18.0
-13.1	-32.9	17.0
-16.4	-35.7	17.0
-32.7	-48.4	19.0
-33.7	-49.2	19.0
-42.1		
-47.6		
-50.1		
-59.8		
-62.3		
-68.4		
-67.9		
-70.9		
-72.4		
-74.7		
-66.6		
-65.8		
-61.7		
-62.7		
-59.1		

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEGREE CENTIGRADE	TEMPERATURE DEWPOINT DEGREE CENTIGRADE	REL. HUM. PERCENT
875.8 4051.0	19.1	2.5	33.0
850.0 4906.5	26.5	13.9	46.0
820.6 5928.7	27.4	7.3	28.0
766.0 7919.2	25.0	-2	19.0
700.0 10483.7	18.7	-4.7	20.0
565.0 16352.7	2.9	-10.0	38.0
500.0 19555.1	-6.1	-11.0	68.0
492.7 19933.5	-7.1	-11.4	71.0
447.5 22373.5	-13.6	-18.0	69.0
440.3 22780.4	-12.4	-31.7	18.0
428.2 23479.8	-13.1	-32.9	17.0
400.0 25176.7	-16.4	-35.7	17.0
300.0 32072.6	-32.7	-48.4	19.0
293.4 32587.4	-33.7	-49.2	19.0
250.0 36220.0	-42.1		
230.0 38056.6	-47.6		
200.0 41081.9	-50.1		
164.6 45185.3	-59.8		
150.0 47087.8	-62.3		
124.8 50779.5	-68.4		
121.4 51326.5	-67.9		
103.2 54524.3	-70.9		
100.0 55137.8	-72.4		
81.4 59108.6	-74.7		
70.0 62063.1	-66.6		
61.4 64687.1	-65.8		
58.4 65701.9	-61.7		
54.4 67150.1	-62.7		
50.0 68882.4	-59.1		

STATION ALTITUDE 4051.00 FEET MSL
 17 JUNE 80
 ASCENSION NO. 163

UPPER AIR DATA
 1690030163
 JALLEN

GEODETTIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

TABLE 5.

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 CENTIGRADE	DEWPOINT DEGREES CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
4051.0	875.8	19.1	2.5	33.0	1040.7	667.0	360.0	2.9	1.000264
4500.0	862.2	23.0	8.6	39.8	1009.3	672.1	9.4	3.2	1.000273
5000.0	847.3	26.6	13.5	44.4	978.0	676.8	17.9	3.6	1.000283
5500.0	832.8	27.0	10.5	35.5	960.9	676.9	24.7	4.0	1.000268
6000.0	818.6	27.3	7.0	27.7	944.7	676.9	30.0	4.5	1.000253
6500.0	804.5	26.7	5.3	25.4	930.8	676.0	19.9	3.9	1.000245
7000.0	790.7	26.1	3.5	23.2	917.1	675.2	335.9	3.1	1.000238
7500.0	777.2	25.5	1.5	20.9	903.5	674.4	318.1	4.1	1.000230
8000.0	763.8	24.8	-0.3	19.0	890.4	673.5	317.1	5.2	1.000224
8500.0	750.5	23.6	-1.2	19.2	878.7	672.0	307.1	5.2	1.000220
9000.0	737.5	22.3	-2.1	19.4	867.1	670.6	294.0	5.2	1.000216
9500.0	724.6	21.1	-3.0	19.6	855.6	669.1	281.6	5.1	1.000212
10000.0	712.0	19.9	-3.8	19.8	844.4	667.7	269.2	5.1	1.000208
10500.0	699.6	18.7	-4.7	20.0	833.2	666.3	256.8	5.1	1.000205
11000.0	686.9	17.3	-4.8	21.6	821.9	664.7	245.1	5.4	1.000202
11500.0	674.5	16.0	-5.1	23.1	810.8	663.2	238.6	7.1	1.000200
12000.0	662.3	14.6	-5.3	24.7	799.9	661.6	240.0	8.8	1.000197
12500.0	650.3	13.3	-5.7	26.2	789.1	660.1	249.9	10.9	1.000194
13000.0	638.6	11.9	-6.1	27.7	778.5	658.5	254.6	12.9	1.000192
13500.0	627.0	10.6	-6.6	29.3	768.1	657.0	256.3	14.7	1.000189
14000.0	615.7	9.2	-7.1	30.8	757.9	655.4	248.5	16.4	1.000186
14500.0	604.5	7.9	-7.6	32.3	747.8	653.8	238.9	18.7	1.000183
15000.0	593.6	6.5	-8.2	33.9	737.8	652.2	228.6	20.8	1.000180
15500.0	582.9	5.2	-8.8	35.4	728.0	650.6	219.9	23.4	1.000178
16000.0	572.3	3.8	-9.5	36.9	718.4	649.0	210.1	25.7	1.000175
16500.0	561.8	2.5	-9.9	39.4	708.7	647.4	202.9	28.5	1.000172
17000.0	551.2	1.1	-9.8	44.1	698.8	645.8	205.5	30.2	1.000170
17500.0	540.8	-0.3	-9.8	48.7	689.1	644.1	208.8	31.7	1.000168
18000.0	530.6	-1.7	-9.9	53.4	679.6	642.5	215.6	32.8	1.000166
18500.0	520.5	-3.1	-10.2	58.1	670.2	640.8	220.3	33.5	1.000164
19000.0	510.7	-4.5	-10.5	62.8	661.0	639.1	222.2	33.1	1.000162
19500.0	501.1	-5.9	-11.0	67.5	651.9	637.5	226.2	32.6	1.000159
20000.0	491.4	-7.3	-11.6	70.9	642.6	635.8	232.7	32.3	1.000157
20500.0	481.8	-8.6	-13.0	70.5	633.4	634.2	238.9	32.5	1.000153
21000.0	472.4	-9.9	-14.3	70.1	624.2	632.6	244.7	33.2	1.000150
21500.0	463.2	-11.3	-15.7	69.7	615.3	630.9	249.4	33.6	1.000147
22000.0	454.1	-12.6	-17.0	69.3	606.4	629.3	253.2	33.7	1.000144
22500.0	445.2	-13.2	-20.7	53.1	596.2	628.4	256.6	33.5	1.000139
23000.0	436.5	-12.6	-32.1	17.7	583.4	628.9	259.9	32.9	1.000132
23500.0	427.9	-13.1	-32.9	17.0	573.1	628.3	262.3	32.3	1.000130

UPPER AIR DATA
 1690030163
 JALLEN

STATION ALTITUDE 4051.00 FEET MSL
 17 JUNE 80
 ASCENSION NO. 163

GEOMETRIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

TABLE 5 (continued)

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
24000.0	419.5	-14.1	17.0	563.8	627.1	263.8	31.6	1.000128
24500.0	411.0	-15.1	17.0	554.7	625.9	264.4	30.8	1.000125
25000.0	402.6	-16.1	17.0	545.7	624.7	263.9	29.7	1.000123
25500.0	394.6	-17.2	17.1	536.9	623.4	262.7	28.5	1.000121
26000.0	386.5	-18.3	17.2	528.3	621.9	260.7	27.3	1.000119
26500.0	378.5	-19.5	17.4	519.8	620.5	259.3	27.1	1.000117
27000.0	370.7	-20.7	17.5	511.5	619.0	258.2	27.5	1.000115
27500.0	363.0	-21.9	17.7	503.3	617.6	256.0	28.2	1.000113
28000.0	355.6	-23.1	17.8	495.2	616.1	253.6	29.0	1.000111
28500.0	348.2	-24.3	18.0	487.3	614.7	251.8	30.3	1.000109
29000.0	341.0	-25.4	18.1	479.5	613.2	250.3	31.7	1.000108
29500.0	334.0	-26.6	18.3	471.9	611.7	250.3	34.3	1.000106
30000.0	327.1	-27.8	18.4	464.4	610.3	250.4	36.4	1.000104
30500.0	320.5	-29.0	18.5	457.0	608.8	250.9	35.9	1.000102
31000.0	313.7	-30.2	18.7	449.7	607.3	251.5	35.1	1.000101
31500.0	307.5	-31.3	18.8	442.6	605.8	252.1	33.3	1.000099
32000.0	300.9	-32.5	19.0	435.6	604.3	252.7	32.3	1.000098
32500.0	294.5	-33.5	19.0	428.1	603.1	252.8	33.6	1.000096
33000.0	288.1	-34.7	16.8**	420.8	601.7	252.9	34.9	1.000094
33500.0	281.8	-35.8	14.2**	413.7	600.2	253.0	36.0	1.000092
34000.0	275.7	-37.0	11.6**	406.6	598.7	253.2	37.0	1.000091
34500.0	269.7	-38.1	9.0**	399.7	597.3	253.7	37.5	1.000089
35000.0	263.8	-39.3	6.4**	393.0	595.8	254.1	38.0	1.000088
35500.0	258.2	-40.4	3.8**	386.3	594.3	254.7	38.6	1.000086
36000.0	252.4	-41.6	1.2**	379.8	592.8	255.2	39.2	1.000085
36500.0	246.8	-42.9		373.5	591.1	255.7	40.0	1.000083
37000.0	241.3	-44.4		367.5	589.2	256.2	40.9	1.000082
37500.0	235.9	-45.9		361.7	587.2	256.7	41.0	1.000081
38000.0	230.6	-47.4		355.9	585.3	257.1	41.0	1.000079
38500.0	225.3	-48.0		348.6	584.6	257.4	40.0	1.000078
39000.0	220.2	-48.4		341.3	584.1	257.6	38.8	1.000076
39500.0	215.2	-48.8		334.1	583.5	259.3	34.7	1.000074
40000.0	210.3	-49.2		327.1	583.0	262.0	30.0	1.000073
40500.0	205.4	-49.6		320.2	582.5	263.7	23.8	1.000071
41000.0	200.8	-50.0		313.5	581.9	266.1	17.3	1.000070
41500.0	196.1	-51.1		307.6	580.5	258.8	13.9	1.000069
42000.0	191.5	-52.3		302.0	579.0	245.4	11.8	1.000067
42500.0	187.0	-53.5		296.5	577.4	233.2	12.2	1.000066
43000.0	182.6	-54.6		291.1	575.9	226.7	14.2	1.000065
43500.0	178.5	-55.8		285.8	574.3	224.2	16.3	1.000064

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

UPPER AIR DATA
 1690030163
 JALLEN

STATION ALTITUDE 4051.00 FEET MSL
 17 JUNE 80
 ASCENSION NO. 163

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

TABLE 5 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARMS	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	
44000.0	174.1	-57.0	280.6	572.8	227.5	18.2	1.000062	
44500.0	170.0	-58.2	275.6	571.2	230.3	20.2	1.000061	
45000.0	166.1	-59.4	270.6	569.6	232.4	21.6	1.000060	
45500.0	162.1	-60.2	265.2	568.5	234.2	23.1	1.000059	
46000.0	158.2	-60.9	259.6	567.6	234.5	24.2	1.000058	
46500.0	154.4	-61.5	254.1	566.7	233.0	24.9	1.000057	
47000.0	150.6	-62.2	248.8	565.9	231.8	25.6	1.000055	
47500.0	147.0	-63.0	243.6	564.8	232.9	26.7	1.000054	
48000.0	143.3	-63.8	238.5	563.7	233.9	27.9	1.000053	
48500.0	139.8	-64.6	233.6	562.6	236.4	28.6	1.000052	
49000.0	136.4	-65.5	228.7	561.4	239.1	29.2	1.000051	
49500.0	133.0	-66.3	224.0	560.3	241.5	29.6	1.000050	
50000.0	129.7	-67.1	219.4	559.2	243.2	28.9	1.000049	
50500.0	126.5	-67.9	214.8	558.1	245.0	28.2	1.000048	
51000.0	123.4	-68.2	209.8	557.7	247.3	26.9	1.000047	
51500.0	120.3	-68.1	204.4	557.9	250.4	24.9	1.000046	
52000.0	117.3	-68.5	199.7	557.3	254.0	22.9	1.000044	
52500.0	114.4	-69.0	195.2	556.6	256.0	20.3	1.000043	
53000.0	111.5	-69.5	190.7	556.0	258.0	17.5	1.000042	
53500.0	108.7	-69.9	186.4	555.4	259.8	15.1	1.000041	
54000.0	106.0	-70.4	182.1	554.7	257.6	14.5	1.000041	
54500.0	103.3	-70.9	178.0	554.1	255.2	13.8	1.000040	
55000.0	100.7	-72.1	174.5	552.4	253.4	13.1	1.000039	
55500.0	98.1	-72.6	170.5	551.7	254.7	12.0	1.000038	
56000.0	95.6	-72.9	166.4	551.3	256.2	10.9	1.000037	
56500.0	93.2	-73.2	162.3	550.9	257.6	9.7	1.000036	
57000.0	90.8	-73.5	158.4	550.5	258.0	8.2	1.000035	
57500.0	88.5	-73.8	154.6	550.1	258.6	6.6	1.000034	
58000.0	86.2	-74.1	150.9	549.7	259.8	5.1	1.000034	
58500.0	84.0	-74.3	147.2	549.3	266.8	3.5	1.000033	
59000.0	81.9	-74.6	143.7	548.9	284.3	2.0	1.000032	
59500.0	79.8	-75.6	139.3	550.3	338.1	1.3	1.000031	
60000.0	77.8	-72.3	134.9	552.2	16.2	2.3	1.000030	
60500.0	75.8	-70.9	130.6	554.1	28.5	3.7	1.000029	
61000.0	73.9	-69.5	126.4	555.9	31.9	4.8	1.000028	
61500.0	72.0	-68.1	122.4	557.8	26.3	4.7	1.000027	
62000.0	70.2	-66.8	118.5	559.7	20.6	4.7	1.000026	
62500.0	68.5	-66.5	115.4	560.1	17.5	4.7	1.000026	
63000.0	66.8	-66.5	112.5	560.3	17.5	5.0	1.000025	
63500.0	65.2	-66.2	109.7	560.5	17.5	5.2	1.000024	

STATION ALTITUDE 4051.00 FEET MSL
 17 JUNE 80
 ASCENSION NO. 165

UPPER AIR DATA
 1690030163
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

TABLE 5 (continued)

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 CENTIGRADE	WETPOINT DEGREES CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
64000.0	63.5	-66.0			106.9	560.7	27.3	7.0	1.000024
64500.0	62.0	-65.9			104.2	560.9	33.5	9.2	1.000023
65000.0	60.5	-64.5			101.0	562.7	33.6	12.6	1.000022
65500.0	59.0	-62.5			97.6	565.4	28.8	18.5	1.000022
66000.0	57.6	-61.9			94.9	566.2	26.3	24.5	1.000021
66500.0	56.2	-62.3			92.8	565.8	33.9	23.8	1.000021
67000.0	54.8	-62.6			90.7	565.3	47.6	21.4	1.000020
67500.0	53.5	-62.0			88.2	566.1			1.000020
68000.0	52.2	-60.9			85.7	567.5			1.000019
68500.0	50.9	-59.9			83.2	568.9			1.000019

STATION ALTITUDE 4051.00 FEET MSL
 17 JUNE 80
 ASCENSION NO. 165

MANDATORY LEVELS
 1690030163
 JALLEN

GEODETTIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

TABLE 6.

PRESSURE GEOPOTENTIAL		TEMPERATURE	REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4903.	26.5	46.	16.4	3.5
800.0	6661.	26.5	25.	7.9	3.4
750.0	8518.	23.5	19.	306.5	5.2
700.0	10474.	18.7	20.	257.3	5.1
650.0	12538.	13.2	26.	250.7	11.1
600.0	14723.	7.3	33.	234.0	19.6
550.0	17045.	.9	45.	205.7	30.4
500.0	19528.	-6.1	68.	226.8	32.6
450.0	22201.	-13.2	69.	254.9	33.8
400.0	25135.	-16.4	17.	263.7	29.4
350.0	28382.	-24.0	18.	252.1	30.1
300.0	32009.	-32.7	19.	252.7	32.4
250.0	36142.	-42.1		255.4	39.5
200.0	40983.	-50.1		266.5	16.5
175.0	43803.	-56.7		226.9	17.8
150.0	46961.	-62.3		232.0	25.8
125.0	50603.	-68.3		245.8	27.8
100.0	54969.	-72.4		253.7	12.9
80.0	59248.	-73.8		326.0	1.3
70.0	61852.	-66.6		20.2	4.7
60.0	64921.	-63.9		32.1	14.1
50.0	68626.	-59.1			

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

GEODETIC COORDINATES
 33-81920 LAT DEG
 106-66501 LON DEG

SIGNIFICANT LEVEL DATA
 169040051
 STALLION

TABLE 7.

STATION ALTITUDE 4940.00 FEET MSL
 17 JUNE 80
 ASCENSION NO. 52
 0830 HRS MDT

PRESSURE GEOMETRIC MILLIBARS MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
852.0	24.6	50.0
850.0	23.9	49.0
852.2	20.9	50.0
819.4	23.9	34.0
754.8	20.2	17.0
700.0	15.0	18.0
618.2	6.9	24.0
547.0	-2.1	46.0
506.4	-7.9	65.0
500.0	-8.7	71.0
485.4	-10.9	86.0
470.0	-12.8	90.0
454.6	-14.9	90.0
447.2	-16.3	74.0
444.9	-15.8	54.0
439.6	-14.6	34.0
432.2	-14.1	19.0
400.0	-18.1	19.0
342.4	-27.0	21.0
300.0	-34.8	24.0
296.8	-35.3	23.0
250.0	-44.4	
231.2	-48.4	
200.0	-51.2	
165.4	-59.9	
150.0	-62.9	
135.8	-66.9	
116.2	-67.2	
100.0	-72.1	
91.2	-73.3	
74.6	-69.0	
70.0	-64.9	
50.0	-59.9	
30.0	-51.5	
20.0	-46.4	
16.4	-45.8	
12.2	-43.7	

STATION ALTITUDE 4940.00 FEET MSL
 17 JUNE 80 0830 HRS MDT
 ASCENSION NO. 52

UPPER AIR DATA
 1690040051
 STALLION

GEODETTIC COORDINATES
 33.81920 LAT DEG
 106.66501 LON DEG

TABLE 8.

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES(TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
4940.0	452.0	24.6	50.0	990.0	674.6	50.0	9.9	1.000287
5000.0	450.2	24.8	49.1	990.3	673.7	49.8	9.8	1.000284
5500.0	435.9	21.5	49.8	982.2	670.6	48.4	9.3	1.000275
6000.0	421.8	23.5	36.0	959.4	672.6	40.7	8.8	1.000259
6500.0	406.7	23.2	30.8	944.4	672.0	44.9	8.2	1.000248
7000.0	392.7	22.4	27.1	931.0	670.9	38.1	7.3	1.000239
7500.0	378.4	21.6	23.5	917.8	669.8	23.0	6.3	1.000231
8000.0	365.4	20.8	19.9	904.8	668.8	7.2	4.5	1.000223
8500.0	352.0	19.9	17.0	892.0	667.6	352.4	2.7	1.000216
9000.0	338.7	18.7	17.3	880.0	666.2	291.0	3.6	1.000213
9500.0	325.6	17.5	17.5	868.2	664.8	275.7	5.7	1.000209
10000.0	312.8	16.5	17.8	856.6	663.3	276.8	8.2	1.000206
10500.0	300.2	15.0	18.0	845.1	661.9	279.4	10.8	1.000202
11000.0	287.5	13.8	18.9	833.2	660.5	277.1	12.5	1.000199
11500.0	275.1	12.6	19.7	821.6	659.1	274.3	14.0	1.000196
12000.0	262.9	11.4	20.6	810.1	657.7	263.5	14.0	1.000194
13000.0	239.1	9.1	22.4	798.8	656.4	252.8	14.6	1.000191
13500.0	227.6	7.9	23.3	787.7	655.0	242.0	15.7	1.000188
14000.0	216.1	6.7	24.6	776.8	653.6	234.1	17.0	1.000185
14500.0	204.7	5.5	28.0	766.0	652.1	229.7	18.0	1.000182
15000.0	193.4	3.9	31.4	755.4	650.6	227.9	18.7	1.000180
15500.0	182.3	2.5	34.7	745.0	649.0	228.0	19.2	1.000178
16000.0	171.5	1.1	38.1	734.7	647.3	231.2	20.2	1.000176
16500.0	160.8	-0.9	41.5	724.6	645.7	234.7	21.3	1.000174
17000.0	150.4	-1.6	44.9	714.7	644.1	237.6	22.5	1.000172
17500.0	139.9	-3.1	49.2	705.0	642.5	240.0	23.6	1.000170
18000.0	129.6	-4.5	54.0	695.3	640.8	239.9	24.6	1.000167
18500.0	119.4	-6.0	58.7	685.7	639.0	239.6	25.7	1.000165
19000.0	109.5	-7.4	63.5	676.2	637.3	238.5	27.4	1.000163
19500.0	99.7	-8.8	68.5	666.9	635.6	238.0	28.9	1.000160
20000.0	89.9	-10.2	71.3	657.2	634.0	239.0	30.4	1.000159
20500.0	80.3	-11.5	81.3	648.0	632.3	240.7	31.6	1.000157
21000.0	70.9	-12.7	89.8	638.5	630.7	243.8	32.6	1.000154
21500.0	61.6	-13.9	90.0	628.8	629.3	246.7	33.3	1.000152
22000.0	52.4	-15.3	85.4	619.4	627.7	249.5	33.4	1.000149
22500.0	43.4	-16.5	48.5	610.5	626.0	252.0	32.8	1.000145
23000.0	34.6	-17.4	23.9	599.0	625.6	254.5	30.4	1.000139
23500.0	26.0	-18.9	19.0	584.6	625.0	257.2	28.1	1.000133
24000.0	17.4	-19.5	19.0	574.3	626.2	260.0	26.1	1.000130
				565.1	624.9	262.5	24.9	1.000128

STATION ALTITUDE 4940.00 FEET MSL
 17 JUNE 80
 ASCENSION NO. 51 0830 HRS MDT

UPPER AIR DATA
 1690040051
 STALLION

GEODETIC COORDINATES
 33.81920 LAT DEG
 106.60501 LON DEG

TABLE 8 (continued)

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	
24500.0	409.1	-16.9	-35.0	19.0	556.1	623.7	263.6	25.2	1.000126
25000.0	400.9	-18.0	-35.9	19.0	547.2	622.4	261.9	26.0	1.000124
25500.0	392.7	-19.1	-36.7	19.2	538.5	621.0	258.2	27.2	1.000121
26000.0	384.7	-20.3	-37.6	19.5	530.0	619.5	255.1	28.3	1.000119
26500.0	376.8	-21.5	-38.5	19.8	521.6	618.1	252.3	29.4	1.000117
27000.0	369.1	-22.7	-39.4	20.0	513.3	616.6	250.3	30.2	1.000116
27500.0	361.5	-23.9	-40.2	20.3	505.2	615.1	248.4	31.1	1.000114
28000.0	354.1	-25.1	-41.1	20.6	497.2	613.7	246.5	31.9	1.000112
28500.0	346.9	-26.3	-42.0	20.8	489.4	612.2	245.4	32.6	1.000110
29000.0	339.7	-27.5	-42.9	21.2	481.6	610.7	243.3	32.9	1.000108
29500.0	332.5	-28.7	-43.8	21.7	473.8	609.1	241.2	33.9	1.000106
30000.0	325.4	-30.0	-44.7	22.2	466.2	607.5	247.9	35.6	1.000105
30500.0	318.6	-31.3	-45.6	22.6	458.7	605.9	248.6	37.6	1.000103
31000.0	311.8	-32.5	-46.5	23.1	451.4	604.4	249.3	39.9	1.000101
31500.0	305.2	-33.8	-47.4	23.6	444.1	602.8	249.7	39.7	1.000099
32000.0	298.7	-35.0	-48.5	23.6	436.9	601.2	250.1	38.3	1.000098
32500.0	292.2	-36.1	-50.5	20.9**	429.4	599.8	250.9	36.2	1.000096
33000.0	285.8	-37.3	-52.8	17.9**	422.1	598.3	252.2	33.6	1.000094
33500.0	279.5	-38.5	-55.3	14.9**	414.9	596.8	253.3	34.1	1.000093
34000.0	273.4	-39.7	-58.0	12.0**	407.8	595.3	254.3	35.7	1.000091
34500.0	267.3	-40.0	-61.2	9.0**	400.9	593.8	253.9	37.9	1.000089
35000.0	261.5	-42.0	-65.1	6.0**	394.1	592.3	253.5	40.2	1.000088
35500.0	255.7	-43.2	-70.8	3.0**	387.4	590.8	253.6	41.3	1.000086
36000.0	250.1	-44.4	-94.6	.1**	380.8	589.2	253.7	42.3	1.000085
36500.0	244.5	-45.5			374.2	587.7	255.0	42.8	1.000083
37000.0	238.9	-46.7			367.6	586.2	250.5	43.2	1.000082
37500.0	233.5	-47.9			361.2	584.7	257.6	42.7	1.000080
38000.0	228.2	-48.7			354.1	583.7	258.5	41.8	1.000079
38500.0	223.0	-49.1			346.7	583.1	258.5	40.3	1.000077
39000.0	217.9	-49.5			339.4	582.6	258.2	38.5	1.000076
39500.0	212.9	-50.0			332.3	582.0	257.8	36.1	1.000074
40000.0	208.0	-50.4			325.3	581.4	257.3	33.4	1.000072
40500.0	203.2	-50.9			318.5	580.8	255.4	30.0	1.000071
41000.0	198.5	-51.5			312.1	579.9	251.9	26.1	1.000069
41500.0	193.9	-52.6			306.2	578.5	248.1	23.1	1.000068
42000.0	189.3	-53.7			300.5	577.1	244.5	21.3	1.000067
42500.0	184.8	-54.8			294.9	575.7	242.4	20.5	1.000066
43000.0	180.5	-55.9			289.4	574.2	243.7	21.3	1.000064
43500.0	176.2	-57.0			284.0	572.8	245.2	22.3	1.000063
44000.0	172.1	-58.1			278.8	571.3	248.4	23.8	1.000062

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

UPPER AIR DATA
 1690040051
 STALLION

STATION ALTITUDE 4940.00 FEET MSL
 17 JUNE 80 0830 HRS MDT
 ASCENSION NO. 51

GEODETIC COORDINATES
 33.81920 LAT DEG
 106.66501 LON DEG

TABLE 8 (continued)

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	SPEED KNOTS	INDEX OF REFRACTION
44500.0	168.1	-59.2		273.6	569.9	251.2	25.4	1.000061
45000.0	164.1	-60.1		268.3	568.6	254.8	26.1	1.000060
45500.0	160.1	-60.9		262.8	567.6	258.3	27.0	1.000059
46000.0	156.2	-61.7		257.3	566.6	259.0	26.9	1.000057
46500.0	152.5	-62.4		252.0	565.6	259.3	26.6	1.000056
47000.0	148.8	-63.2		246.8	564.5	260.2	26.3	1.000055
47500.0	145.1	-64.1		241.8	563.3	261.6	26.0	1.000054
48000.0	141.5	-64.9		236.8	562.2	264.1	26.0	1.000053
48500.0	138.1	-65.8		232.0	561.0	267.4	26.3	1.000052
49000.0	134.7	-66.7		227.2	559.8	269.5	26.8	1.000051
49500.0	131.3	-66.9		221.9	559.4	270.6	27.3	1.000049
50000.0	128.1	-67.0		216.4	559.4	272.4	26.1	1.000048
50500.0	124.9	-67.0		211.1	559.3	275.2	23.4	1.000047
51000.0	121.8	-67.1		205.9	559.2	280.0	18.9	1.000046
51500.0	118.8	-67.2		200.9	559.1	292.5	12.1	1.000045
52000.0	115.8	-67.3		196.0	558.9	315.0	7.2	1.000044
52500.0	112.9	-68.1		191.9	557.8	304.4	4.0	1.000043
53000.0	110.1	-69.0		187.8	556.7	249.4	1.8	1.000042
53500.0	107.3	-69.8		183.9	555.6	221.4	5.7	1.000041
54000.0	104.6	-70.6		180.0	554.4	216.6	9.9	1.000040
54500.0	102.0	-71.5		176.2	553.3	216.3	9.4	1.000039
55000.0	99.4	-72.2		172.4	552.3	216.1	8.6	1.000038
55500.0	96.9	-72.5		168.3	551.8	223.1	8.7	1.000037
56000.0	94.4	-72.8		164.2	551.4	231.0	9.0	1.000037
56500.0	92.0	-73.2		160.3	550.9	238.9	7.6	1.000036
57000.0	89.7	-72.9		156.1	551.2	251.6	5.8	1.000035
57500.0	87.4	-72.4		151.7	552.0	271.7	3.9	1.000034
58000.0	85.2	-71.8		147.5	552.7	332.7	2.0	1.000033
58500.0	83.1	-71.3		143.4	553.5	30.4	4.0	1.000032
59000.0	81.0	-70.8		139.4	554.2	41.8	4.9	1.000031
59500.0	78.9	-70.2		135.5	555.0	49.6	5.6	1.000030
60000.0	76.9	-69.7		131.7	555.7	44.5	5.1	1.000029
60500.0	75.0	-69.1		128.0	556.5	24.6	4.1	1.000029
61000.0	73.1	-67.7		124.0	558.4	13.2	4.1	1.000028
61500.0	71.3	-66.1		120.0	560.6	19.6	4.8	1.000027
62000.0	69.6	-64.8		116.3	562.3	32.5	6.1	1.000026
62500.0	67.9	-64.4		113.3	562.8	52.4	9.8	1.000025
63000.0	66.2	-64.1		110.3	563.3	60.9	14.1	1.000025
63500.0	64.6	-63.7		107.5	563.8	65.6	16.3	1.000024
64000.0	63.1	-63.3		104.7	564.3	69.2	18.6	1.000023

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GEODETIC COORDINATES
 33.81920 LAT DEG
 106.66501 LON DEG

TABLE 8 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (T) DEGREES (T)	SPEED KNOTS	INDEX OF REFRACTION
64500.0	61.5	-63.0		102.0	564.8	73.7	19.5	1.000023
65000.0	60.0	-62.6		99.3	565.3	79.7	19.2	1.000022
65500.0	58.6	-62.3		96.8	565.8	85.8	19.1	1.000022
66000.0	57.2	-61.9		94.3	566.2	92.2	18.7	1.000021
66500.0	55.8	-61.5		91.8	566.7	98.8	18.6	1.000020
67000.0	54.4	-61.2		89.4	567.2	104.6	18.6	1.000020
67500.0	53.1	-60.8		87.1	567.7	109.8	18.7	1.000019
68000.0	51.8	-60.4		84.9	568.2	115.2	18.9	1.000019
68500.0	50.6	-60.1		82.7	568.7	121.3	18.9	1.000018
69000.0	49.4	-59.7		80.6	569.2	127.3	19.2	1.000018
69500.0	48.2	-59.3		78.5	569.7	127.4	17.8	1.000017
70000.0	47.1	-58.9		76.5	570.2	125.2	15.8	1.000017
70500.0	46.0	-58.5		74.6	570.7	121.3	13.4	1.000017
71000.0	44.9	-58.1		72.7	571.3	110.2	9.7	1.000016
71500.0	43.8	-57.7		70.9	571.8	88.0	6.8	1.000016
72000.0	42.8	-57.3		69.1	572.3	70.0	6.2	1.000015
72500.0	41.8	-57.0		67.4	572.8	57.5	6.4	1.000015
73000.0	40.8	-56.6		65.7	573.3	47.7	6.9	1.000015
73500.0	39.9	-56.2		64.0	573.9	60.1	9.2	1.000014
74000.0	38.9	-55.8		62.4	574.4	67.4	11.8	1.000014
74500.0	38.0	-55.4		60.8	574.9	71.7	13.9	1.000014
75000.0	37.1	-55.0		59.3	575.4	74.3	14.3	1.000013
75500.0	36.2	-54.6		57.8	575.9	70.7	14.8	1.000013
76000.0	35.4	-54.2		56.3	576.4	78.2	14.6	1.000013
76500.0	34.6	-53.8		54.9	576.9	79.2	13.5	1.000012
77000.0	33.8	-53.4		53.5	577.5	80.2	12.5	1.000012
77500.0	33.0	-53.0		52.2	578.0	80.3	12.9	1.000012
78000.0	32.2	-52.7		50.9	578.5	80.1	13.7	1.000011
78500.0	31.4	-52.3		49.6	579.0	79.8	14.6	1.000011
79000.0	30.7	-51.9		48.3	579.5	80.1	14.3	1.000011
79500.0	30.0	-51.5		47.1	580.0	80.3	13.9	1.000010
80000.0	29.3	-51.2		46.0	580.4	80.5	13.6	1.000010
80500.0	28.6	-50.9		44.9	580.8	80.8	14.2	1.000010
81000.0	28.0	-50.6		43.8	581.1	81.0	14.9	1.000010
81500.0	27.3	-50.3		42.7	581.5	81.0	15.6	1.000010
82000.0	26.7	-50.0		41.7	581.9	79.3	17.0	1.000009
82500.0	26.1	-49.8		40.7	582.3	77.9	18.4	1.000009
83000.0	25.5	-49.5		39.7	582.7	76.9	19.7	1.000009
83500.0	24.9	-49.2		38.8	583.0	76.9	20.0	1.000009
84000.0	24.4	-48.9		37.9	583.4	77.0	20.2	1.000008

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GEODETIC COORDINATES
 33.81920 LAT DEG
 106.66501 LON DEG

TABLE 8 (continued)

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 CENTIGRADE	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
84500.0	23.8	-48.6		36.9	583.8	77.0	20.8	1.000008	
85000.0	23.3	-48.3		36.1	584.2	77.2	22.9	1.000008	
85500.0	22.7	-48.0		35.2	584.5	77.3	25.1	1.000008	
86000.0	22.2	-47.7		34.3	584.9	77.5	26.8	1.000008	
86500.0	21.7	-47.4		33.5	585.3	78.3	26.8	1.000007	
87000.0	21.2	-47.1		32.7	585.7	79.2	26.7	1.000007	
87500.0	20.7	-46.9		31.9	586.0	80.3	26.2	1.000007	
88000.0	20.3	-46.6		31.2	586.4	82.7	24.4	1.000007	
88500.0	19.8	-46.4		30.4	586.7	85.5	22.6	1.000007	
89000.0	19.4	-46.3		29.7	586.8	88.6	21.2	1.000007	
89500.0	18.9	-46.2		29.1	586.9	91.6	21.0	1.000006	
90000.0	18.5	-46.2		28.4	586.9	95.0	20.8	1.000006	
90500.0	18.1	-46.1		27.8	587.0	98.2	20.7	1.000006	
91000.0	17.7	-46.0		27.1	587.1	99.7	21.0	1.000006	
91500.0	17.3	-46.0		26.5	587.2	100.7	21.4	1.000006	
92000.0	16.9	-45.9		25.9	587.3	101.7	21.8	1.000006	
92500.0	16.5	-45.8		25.3	587.4	101.9	21.8	1.000006	
93000.0	16.2	-45.7		24.7	587.6	100.5	21.2	1.000005	
93500.0	15.8	-45.5		24.2	587.8	99.0	20.6	1.000005	
94000.0	15.4	-45.4		23.6	588.0	97.5	20.1	1.000005	
94500.0	15.1	-45.2		23.1	588.2	96.9	20.0	1.000005	
95000.0	14.8	-45.1		22.5	588.4	96.5	20.0	1.000005	
95500.0	14.4	-44.9		22.0	588.6	96.0	20.0	1.000005	
96000.0	14.1	-44.7		21.5	588.8	95.6	20.4	1.000005	
96500.0	13.8	-44.6		21.0	589.0	95.2	21.2	1.000005	
97000.0	13.5	-44.4		20.5	589.2	94.8	22.0	1.000005	
97500.0	13.2	-44.3		20.1	589.4			1.000004	
98000.0	12.9	-44.1		19.6	589.6			1.000004	
98500.0	12.6	-43.9		19.2	589.8			1.000004	
99000.0	12.3	-43.8		18.7	590.0			1.000004	

STATION ALTITUDE 4940.00 FEET MSL
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MANDATORY LEVELS
 1690040051
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 TABLE 9.

GEODETIC COORDINATES
 33.81920 LAT DEG
 106.60501 LON DEG

PRESSURE GEOPOTENTIAL MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DATA	
			DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	23.9	49.	49.8	9.8
800.0	22.8	29.	43.9	8.0
750.0	19.8	17.	324.1	2.6
700.0	15.0	18.	279.4	10.8
650.0	10.2	22.	251.8	14.6
600.0	4.7	29.	228.0	18.9
550.0	-1.7	45.	240.0	23.6
500.0	-8.7	71.	239.0	30.3
450.0	-15.8	80.	252.6	32.2
400.0	-18.1	19.	261.5	26.1
350.0	-25.7	21.	245.4	32.4
300.0	-34.8	24.	250.0	38.6
250.0	-44.4		253.7	42.3
200.0	-51.2		253.2	27.4
175.0	-57.3		246.2	22.8
150.0	-62.9		259.7	26.4
125.0	-67.0		275.0	23.6
100.0	-72.1		216.2	8.9
80.0	-70.5		45.2	5.1
70.0	-64.9		23.0	5.3
60.0	-62.6		79.3	19.2
50.0	-59.9		123.7	19.0
40.0	-56.2		57.0	8.5
30.0	-51.5		80.3	13.9
25.0	-49.2		76.9	19.9
20.0	-46.4		84.1	23.5
15.0	-45.2		96.8	20.0

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

**DAT
FILM**