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DR 1079
October 1979

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METEOROLOGICAL DATA REPORT

19702A GSRS
Missile Numbers 312, 313
Round Numbers, B-43, B-44
19 October 1979

by

White Sands Meteorological Team

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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19. KEY WORDS (Continue on reverse; 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 the 19702A GSRS, Missile Numbers 312, 313, Round Numbers B-43, B-44 are presented in tabular form.		

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INTRODUCTION

19702A GSRS, Missile Numbers 312 and 313, Round Numbers B-43 and B-44, were launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1100 and 1100:04 MDT, 19 October 1979. The scheduled launch times were 1100 and 1100:04 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 LC-33 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

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

SITE AND ALTITUDE

LC-33 2Km
NICK 2Km

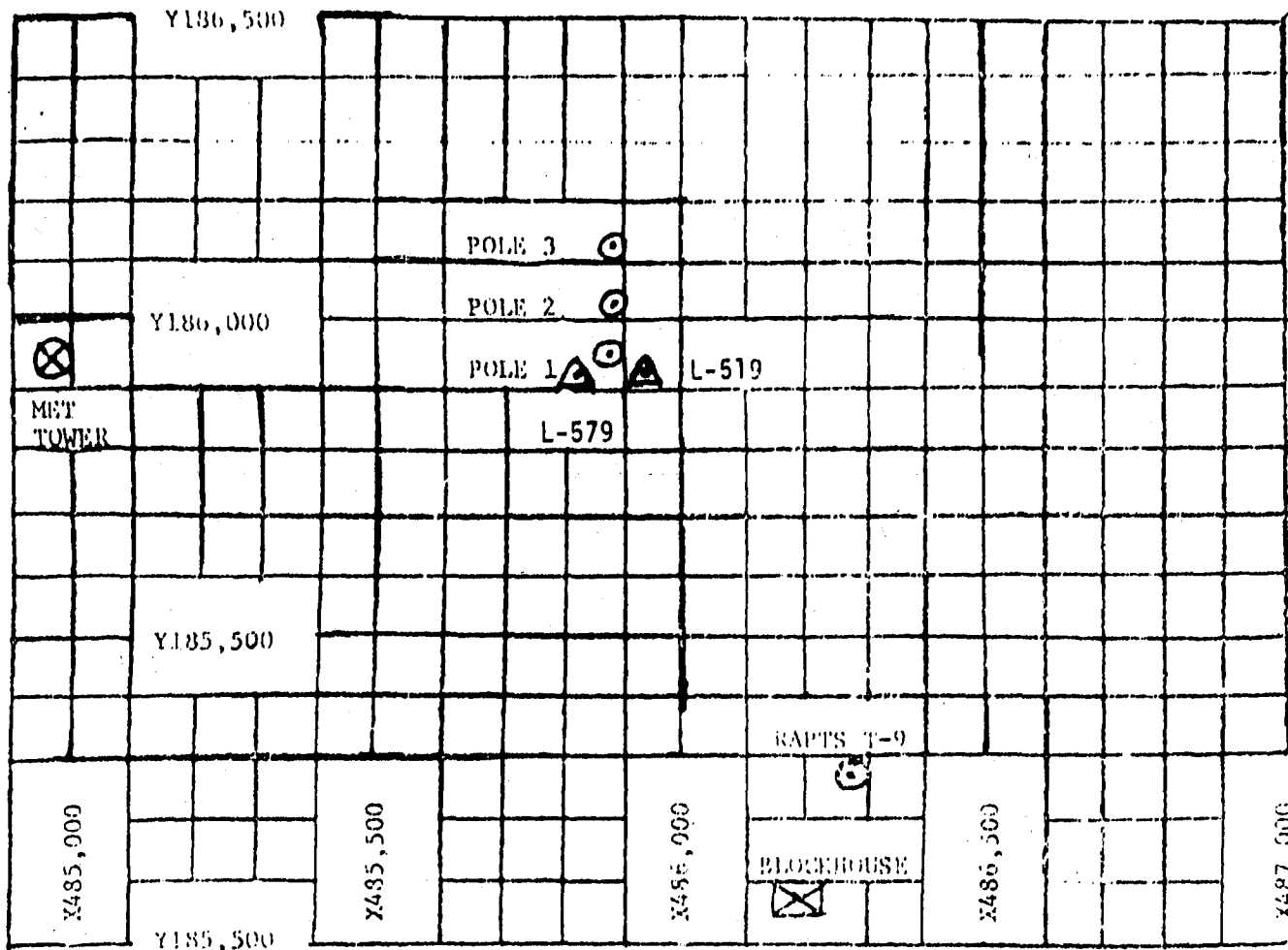
(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 73,000 feet in 500-foot increments.

SITE AND TIME

SMR 0930 MST

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GR&I	
DIC TAB	
Unannounced	
Justification	
By	
Distribution	
Availability Codes	
Avail and/or	
Special	
Dist	A
	23
	C/E

NORTH



1. MET TOWER - 4 Bendix Model T-20 Anemometers at 12 ft, 61 ft, 102 ft, and 202 ft with E/A recorders.
2. POLE ANEMOMETER - Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 - 38.7 ft
 - (b) Pole #2 - 53.0 ft
 - (c) Pole #3 - 81.6 ft
3. RAPES T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.

Best Available Copy

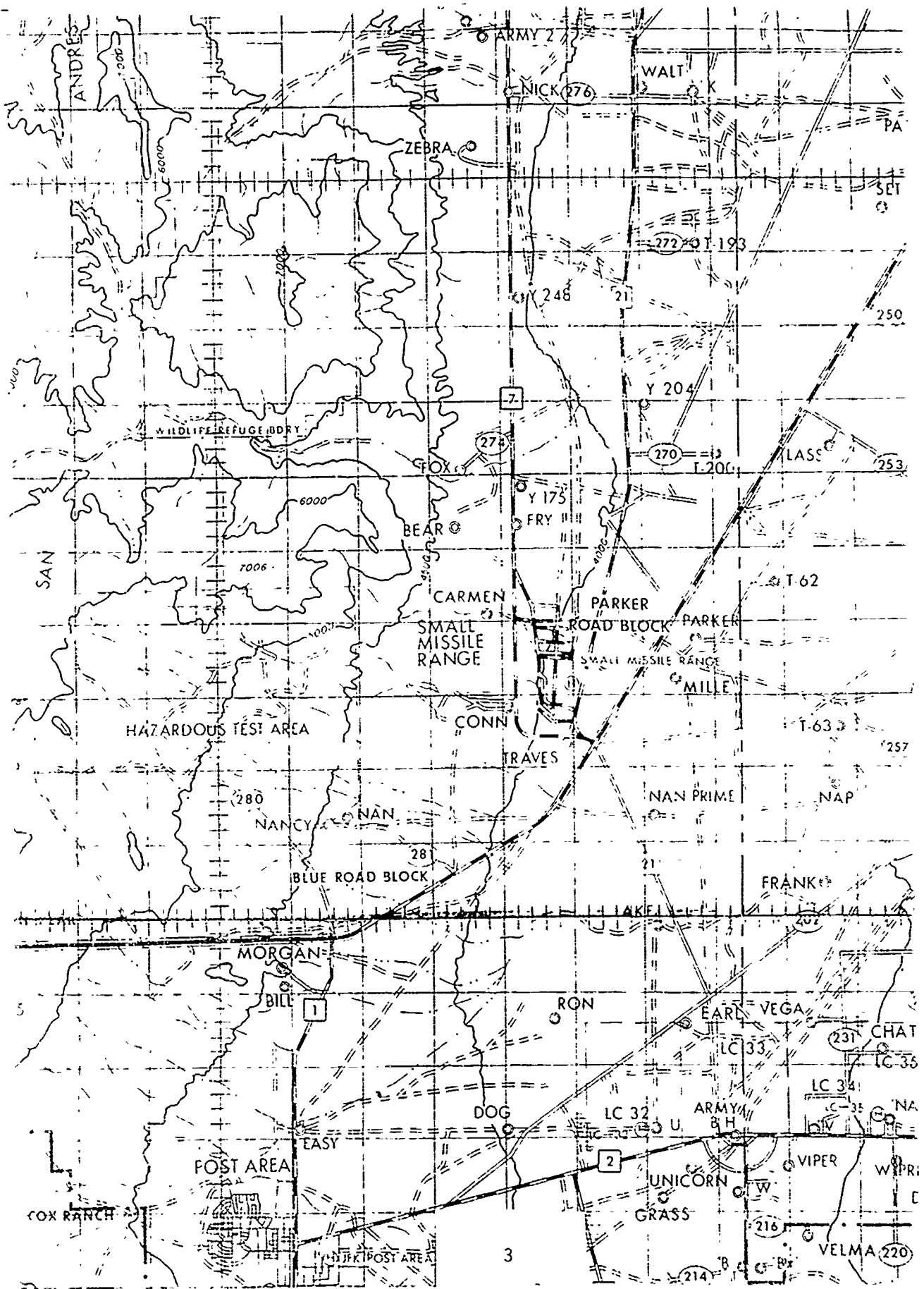


TABLE 1. Surface Observations taken at 1100 MD.,
 19 October 1979, at LC-33, 19702A GSRS,
 Missile Numbers 312, 313, Round
 Numbers B-43, B-44.

ELEVATION	3977.30	FT/MSL
PRESSURE	876.9	MBS
TEMPERATURE	23.0	°C
RELATIVE HUMIDITY	42	%
DEW POINT	9.4	°C
DENSITY	1023	GM/M ³
WIND SPEED	07	KTS
WIND DIRECTION	270	DEGREES
CLOUD COVER	1	Ac
CLOUD COVER	4	Ci

LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

POLE #1			POLE #2			POLE #3		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	MISG	14	-30	263	14	-30	255	15
-20	MISG	14	-20	263	12	-20	250	15
-10	MISG	12	-10	276	10	-10	259	13
0.0	MISG	10	0.0	270	10	0.0	261	12
+10	MISG	09	+10	259	09	+10	264	09

POLE #1 = X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL

POLE #2 = X485,874.93 Y186,012.00 H4033.57 53.0 ft AGL

POLE #3 = X485,877.29 Y186,116.06 H4063.92 83.6 ft AGL

TABLE 2

TYPE 19702A GSRS MISSILE NOS. 312, 313 ROUND NOS. B-43, B-44

LAUNCHED FROM LC-33 DATE 19 October 1979 TIME S. 1100, 1100:04 ME

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1 12 Feet			LEVEL #2 62 Feet		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	255	09	-30	261	10
-20	264	09	-20	264	10
-10	264	09	-10	284	10
0.0	267	06	0.0	261	09
+10	273	07	+10	288	08
LEVEL #3 102 Feet			LEVEL #4 202 Feet		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	261	11	-30	250	11
-20	274	12	-20	250	11
-10	274	13	-10	245	12
0.0	268	09	0.0	270	11
+10	283	11	+10	261	18

WTSM COORDINATES: X484,982.64 Y185,057.73 H3983.00 (base)

TABLE 3

TYPE 19702A GSRS MISSILE NOS. 312, 313 ROUND NOS. B-43, B-44

LAUNCHED FROM LC-33 DATE 19 October 1979 TIMES. 1100, 1100:04 MDT

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

GSRS PILOT BALLOON MEASURED WIND DATA

TABLE 5

RELEASED FROM LC-33 DATE 19 October 1979 TIME 1100 MDT
 TRACKER COORDINATES (WSTM) X= 486,037.24 Y= 182,350.16 H= 3977.30
 MISSILE TYPE 19702A GSRS MISSILE NOS. 312, 313 ROUND NOS. B-43, B-44
 MISSILE LAUNCHED FROM LC-33 DATE 19 October 1979 TIMES. 1100, 1100:04 MDT

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHT - METERS AGL

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS	HEIGHT AGL	DIRECTION DEGREES	SPEED KTS	HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	270	09						
90	MISG	MISG						
150	283	15						
210	289	13						
270	292	11						
330	291	09						
390	289	14						
500	260	09						
650	270	07						
800	250	09						
950	261	06						
1150	230	06						
1350	215	12						
1550	245	24						
1750	258	37						
2000	263	31						

GSRS PILOT BALLOON MEASURED WIND DATA

TABLE 6

RELEASED FROM NICK SITE DATE 19 October 1979 TIME 1106 MDT
 TRACKER COORDINATES (WS1M) X= 470.734.56 Y= 255,775.64 H= 4126.57
 MISSILE TYPE 19702A GSRS MISSILE NO S. 312, 313 ROUND NOS. B-43, B-44
 MISSILE LAUNCHED FROM LC-33 DATE 19 October 1979 TIMES. 1100, 1100:04 MDT

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHT - METERS AGL

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS	HEIGHT AGL	DIRECTION DEGREES	SPEED KTS	HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	260	21						
90	260	18						
150	259	15						
210	255	10						
270	270	11						
330	276	13						
390	268	16						
500	287	18						
650	309	16						
800	316	18						
950	317	18						
1150	334	20						
1350	318	17						
1550	339	21						
1750	347	22						
2000	345	20						

STATION ALTITUDE 3997.30 FEET MSL
 19 OCT. 79 0930 HRS MSL
 ASCENSION 10. 357

SIGNIFICANT LEVEL DATA
 29200.0357
 5 M R

GEOLITIC COORDINATES
 32.48034 LAT DEG
 106.42307 LONG DEG

TABLE 7

PRESSURE MILLIBARS	PRESSURE GEOMETRIC ALTITUDE		TEMPERATURE		REL. HUM. PERCENT
	MSL FEET	ALTITUDE	AIR DEGREES	DEWPOINT CENTIGRADE	
877.0	3997.3	23.0	7.3	37.0	
870.8	4199.3	20.2	5.1	37.0	
850.9	4361.6	18.0	5.6	44.0	
773.3	7329.5	11.0	2.6	56.0	
758.8	8023.2	11.0	-5.5	31.0	
749.8	8351.5	10.1	-7.6	28.0	
731.3	9035.1	11.5	-13.4	19.0	
700.0	10229.8	9.2	-15.3	16.0	
595.0	14551.0	1.1	-23.4	14.0	
571.8	15632.7	-1.6	-9.9	53.0	
546.3	16822.7	-3.8	-14.5	43.0	
500.0	19096.6	-10.1	-13.8	74.0	
476.7	20304.2	-11.6	-15.0	76.0	
464.8	20942.5	-11.2	-16.0	54.0	
453.3	21296.3	-11.2	-20.7	45.0	
423.8	23202.6	-14.5	-27.8	31.0	
400.0	24897.2	-16.9	-32.0	24.0	
325.8	29652.4	-30.5	-41.5	33.0	
309.0	31542.4	-35.7	-45.3	36.0	
283.3	32843.1	-39.7	-49.0	36.0	
250.0	35617.0	-46.7			
229.8	37438.2	-51.5			
200.0	40369.0	-57.5			
158.8	45068.9	-66.7			
150.0	46202.5	-67.8			
143.6	47005.3	-68.7			
137.6	47914.3	-65.7			
123.8	49232.3	-67.7			
119.8	50659.7	-67.8			
113.3	51704.8	-64.7			
108.0	54270.0	-68.7			
74.8	60034.5	-67.3			
70.0	61372.8	-61.7			
65.8	62645.4	-59.3			
54.3	66587.1	-62.6			
51.3	67755.2	-58.7			
50.0	68267.6	-58.9			
45.8	70107.0	-58.9			
39.8	73043.2	-55.4			

STATION ALTITUDE 3997.30 FEET MSL
 19 OCT. 79 0930 HRS MS1
 ASCENSION NO. 357

UPPER AIR DATA
 292003037
 S M R

GEODETIC COORDINATES
 32.4034 LAT DEG
 100.42307 LON DEG

TABLE 8

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUMID. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION, DEGREES (TR)	SPEED KNOTS	INDEX OF REFRACTION:
3997.3	877.0	23.0	37.0	1027.0	674.9	220.0	15.0	1.000274
4000.0	870.9	23.0	37.0	1027.0	671.9	220.0	15.0	1.000274
4500.0	861.6	19.2	40.1	1022.5	667.5	228.0	15.7	1.000268
5000.0	840.4	17.7	44.6	1009.0	665.7	235.0	16.8	1.000265
5500.0	831.3	16.2	47.0	990.8	664.0	242.0	18.1	1.000261
6000.0	810.5	14.6	49.5	983.9	662.4	240.1	19.9	1.000257
6500.0	801.9	13.4	51.9	971.5	660.7	247.1	22.4	1.000253
7000.0	787.0	11.9	54.4	950.9	659.0	247.9	24.8	1.000249
7500.0	773.5	11.0	49.9	945.2	657.8	251.4	27.7	1.000241
8000.0	759.5	11.0	31.9	929.2	657.4	255.0	30.8	1.000227
8500.0	745.7	10.4	25.4	914.7	656.5	259.0	32.2	1.000219
9000.0	732.2	11.4	16.6	895.5	657.6	262.7	35.6	1.000210
9500.0	719.0	10.6	16.0	881.7	656.6	264.7	34.2	1.000206
10000.0	705.9	9.6	16.0	860.7	655.5	260.7	34.7	1.000203
10500.0	693.0	8.7	15.9	855.7	654.5	267.1	34.0	1.000199
11000.0	680.2	7.8	15.6	842.7	653.2	267.5	33.2	1.000196
11500.0	667.6	6.8	15.4	830.0	652.1	268.2	32.6	1.000192
12000.0	655.3	5.9	15.2	817.4	651.0	269.2	32.1	1.000189
12500.0	643.2	4.9	14.9	803.1	649.9	271.0	31.7	1.000186
13000.0	631.3	4.0	14.7	792.9	648.8	274.9	31.3	1.000183
13500.0	619.6	3.1	14.5	789.9	647.7	270.9	31.7	1.000179
14000.0	608.2	2.1	14.3	769.1	646.6	277.6	32.2	1.000176
15000.0	593.7	1.2	14.0	757.5	645.5	273.0	32.5	1.000173
15500.0	574.7	-1.3	30.2	740.2	644.2	278.0	32.6	1.000170
16000.0	563.8	-2.3	48.2	730.1	642.9	278.9	32.4	1.000178
16500.0	553.1	-3.2	49.9	723.9	641.7	273.9	31.1	1.000175
17000.0	542.5	-4.3	45.7	712.7	640.6	278.0	29.7	1.000170
17500.0	532.1	-5.7	45.4	702.0	639.2	278.0	28.2	1.000167
18000.0	521.8	-7.1	52.2	692.0	637.6	273.2	26.6	1.000165
18500.0	511.8	-8.4	59.0	682.1	636.0	277.5	26.6	1.000163
19000.0	501.9	-9.8	65.9	672.4	634.5	270.6	27.2	1.000161
19500.0	492.1	-10.6	72.7	662.9	632.7	275.0	27.6	1.000159
20000.0	482.5	-11.2	74.7	651.9	631.7	272.9	27.7	1.000156
20500.0	473.0	-11.5	75.5	640.7	631.0	272.6	29.0	1.000154
21000.0	463.7	-11.2	69.3	620.8	630.6	275.3	32.0	1.000150
21500.0	454.0	-11.5	52.5	610.0	630.9	262.7	34.9	1.000145
22000.0	443.7	-12.4	43.6	604.8	629.4	269.3	37.5	1.000141
22500.0	430.9	-13.2	40.0	594.9	629.4	294.0	38.4	1.000138
23000.0	423.3	-14.1	36.4	583.1	628.3	294.1	40.5	1.000135
23500.0	420.3	-14.1	32.9	570.5	627.5	295.1	39.3	1.000132

UPPER AIR DATA
 2:20:00.0357
 5 M R

STATION ALTITUDE 3997.30 FEET MSL
 19 OCT 79 0933 HRS MST
 ASCENSION 10. 357

TABLE 8 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE						
2350.0	419.8	-14.9	-28.6	29.8	563.9	620.2	298.0	35.7	1.000129
2400.0	411.4	-15.7	-30.2	27.4	555.5	623.2	305.0	31.7	1.000127
2450.0	403.2	-16.6	-31.9	25.0	547.2	624.2	311.4	28.5	1.000124
2500.0	395.0	-17.7	-33.1	24.6	538.8	622.7	318.0	26.1	1.000122
2550.0	386.9	-19.1	-33.9	25.5	530.5	621.0	322.9	24.0	1.000120
2600.0	378.9	-20.5	-34.8	26.4	522.3	619.5	328.5	22.6	1.000118
2650.0	371.1	-21.9	-35.6	27.3	514.3	617.0	333.0	21.3	1.000116
2700.0	363.5	-23.2	-36.5	28.2	506.6	615.9	338.0	20.5	1.000114
2750.0	356.0	-24.6	-37.4	29.1	498.9	614.2	343.0	20.2	1.000113
2800.0	348.7	-26.0	-38.3	30.0	491.4	612.5	348.0	20.0	1.000111
2850.0	341.5	-27.4	-39.3	30.9	484.0	610.8	352.9	20.3	1.000109
2900.0	334.5	-28.8	-40.2	31.8	476.7	609.1	357.4	20.8	1.000107
2950.0	327.5	-30.1	-41.2	32.8	469.5	607.4	361.5	21.3	1.000106
3000.0	320.7	-31.5	-42.2	33.6	462.2	605.7	365.5	22.3	1.000104
3050.0	313.8	-32.9	-43.2	34.4	454.9	603.9	369.7	23.2	1.000102
3100.0	307.1	-34.2	-44.2	35.1	447.7	602.2	373.9	23.4	1.000100
3150.0	300.5	-35.6	-45.3	35.9	440.7	600.5	378.0	24.0	1.000099
3200.0	294.0	-37.1	-46.6	36.0	433.9	598.8	382.0	24.4	1.000097
3250.0	287.6	-38.6	-48.0	36.0	427.2	597.0	385.9	25.1	1.000096
3300.0	281.3	-40.1	-49.3	34.0**	420.5	594.8	389.5	26.7	1.000094
3350.0	275.0	-41.4	-50.8	27.5**	413.3	593.1	393.4	27.9	1.000092
3400.0	268.9	-42.6	-52.1	21.0**	406.5	591.5	397.1	28.6	1.000091
3450.0	262.9	-43.9	-53.6	14.5**	399.5	589.9	400.8	29.4	1.000089
3500.0	257.1	-45.1	-55.1	8.0**	392.7	588.3	404.1	30.1	1.000088
3550.0	251.3	-46.4	-56.5	1.5**	386.1	586.8	407.4	31.1	1.000086
3600.0	245.6	-47.7	-57.7		379.5	585.2	410.7	32.2	1.000085
3650.0	240.0	-49.0	-59.0		373.0	583.7	414.0	33.3	1.000083
3700.0	234.5	-50.3	-60.3		366.7	582.2	417.2	35.7	1.000082
3750.0	229.1	-51.6	-61.6		360.5	579.8	420.5	38.1	1.000080
3800.0	223.8	-52.7	-62.7		354.5	577.2	423.8	40.2	1.000079
3850.0	218.5	-53.7	-63.7		348.9	575.8	427.0	41.2	1.000077
3900.0	213.4	-54.7	-64.7		343.3	574.5	430.2	41.9	1.000076
3950.0	208.4	-55.7	-65.7		337.9	573.1	433.5	42.4	1.000074
4000.0	203.5	-56.7	-66.7		332.6	571.8	436.8	43.2	1.000073
4050.0	198.7	-57.8	-67.8		327.4	570.5	440.0	44.2	1.000072
4100.0	193.9	-58.7	-68.7		322.3	569.2	443.2	45.2	1.000070
4150.0	189.2	-59.7	-69.7		317.3	567.8	446.5	45.8	1.000069
4200.0	184.5	-60.7	-70.7		312.4	567.0	449.8	46.0	1.000067
4250.0	180.1	-61.7	-71.7		307.5	566.5	453.1	46.1	1.000066
4300.0	175.8	-62.7	-72.7		302.9	566.2	456.4	36.9	1.000065

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

STATION: ALTITUDE 5997.30 FEET MSL
 19 OCT. 73 0930 HRS MSL
 ASSEMBLY NO. 357

UPPER AIR DATA
 2920000357
 S M K

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LONG DEG

TABLE 8 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SOUND SPEED M/SEC	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (T)	SPEED KNOTS	
4350.0	171.5	-63.0		285.2	505.9	350.2	33.9	1.000064
4400.0	167.4	-64.0		279.6	502.6	347.0	31.7	1.000062
4450.0	163.3	-65.0		274.1	501.3	358.8	31.2	1.000061
4500.0	159.3	-66.6		266.7	509.9	320.0	33.9	1.000060
4550.0	155.4	-67.1		262.7	509.2	317.2	40.0	1.000059
4600.0	151.5	-67.6		256.8	506.5	311.9	48.1	1.000057
4650.0	147.8	-68.1		251.0	507.8	309.0	49.3	1.000056
4700.0	144.1	-68.6		245.4	507.1	307.7	48.9	1.000055
4750.0	140.5	-67.2		237.6	509.1	303.0	45.7	1.000053
4800.0	137.0	-65.8		230.2	500.9	298.4	42.4	1.000051
4850.0	133.6	-65.6		225.3	509.9	294.4	43.1	1.000050
4900.0	130.3	-67.3		220.6	508.9	290.9	44.0	1.000049
4950.0	127.1	-67.7		215.5	508.4	290.3	44.9	1.000048
5000.0	123.9	-67.8		210.2	506.3	290.5	44.9	1.000047
5050.0	120.8	-67.8		205.0	506.3	288.2	40.5	1.000046
5100.0	117.6	-68.9		199.0	509.5	283.8	34.7	1.000044
5150.0	114.9	-65.5		192.8	501.4	277.2	29.5	1.000043
5200.0	112.1	-65.0		187.6	502.0	267.6	25.0	1.000042
5250.0	109.3	-65.8		183.7	502.9	262.4	23.9	1.000041
5300.0	106.6	-69.7		179.8	509.8	253.9	25.8	1.000040
5350.0	104.0	-67.5		176.1	508.7	265.9	27.7	1.000039
5400.0	101.4	-68.3		172.4	507.6	269.6	29.7	1.000038
5450.0	98.9	-68.6		162.4	507.1	270.9	31.5	1.000037
5500.0	96.4	-69.5		164.1	507.3	269.0	31.8	1.000036
5550.0	94.0	-68.4		160.0	507.4	267.3	32.2	1.000035
5600.0	91.7	-68.3		155.9	507.6	266.0	32.8	1.000034
5650.0	89.4	-68.2		151.9	507.6	264.9	33.0	1.000033
5700.0	87.2	-68.0		148.0	507.9	264.1	31.2	1.000032
5750.0	85.0	-67.9		144.3	508.1	263.7	29.9	1.000031
5800.0	82.9	-67.8		140.6	508.3	261.4	30.1	1.000031
5850.0	80.8	-67.7		137.0	508.4	259.9	31.2	1.000031
5900.0	78.6	-67.6		133.5	508.6	260.5	35.2	1.060030
5950.0	76.5	-67.4		130.1	508.6	262.7	38.3	1.000029
6000.0	74.3	-67.3		126.8	508.9	268.5	39.7	1.000028
6050.0	73.1	-65.4		122.5	501.6	273.0	38.8	1.000027
6100.0	71.3	-63.3		119.3	504.4	276.5	33.1	1.000026
6150.0	69.8	-61.5		114.5	508.6	277.6	27.1	1.000025
6200.0	67.9	-60.5		111.2	508.1	271.1	20.5	1.000025
6250.0	66.3	-59.6		108.1	509.3	268.0	14.9	1.000024
6300.0	64.7	-59.6		105.5	509.3	264.1	12.4	1.000023

GEODETIC COORDINATES
32.40034 LAT DEG
106.42307 LONG DEG

UPPER AIR DATA
2020000557
5 M R

STATION ALTITUDE 3997.30 FEET MSL
19 OCT. 79 0950 HRS MSL
ASCENSION NO. 307

TABLE 8 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GP/CUBIC METER	SPEED OF SOUND M/SEC	WIND DIRECTION DEGREES (T)	WIND SPEED KNOTS	INDEX OF REFRACTION
6300.0	03.1	-60.1	103.2	506.7	209.2		12.7	1.000023
6400.0	01.6	-60.5	109.9	508.1	207.7		14.1	1.000022
6450.0	00.1	-60.9	90.7	507.5	207.5		15.4	1.000022
6500.0	50.7	-61.4	90.5	506.9	221.5		15.9	1.000021
6550.0	57.3	-61.8	94.4	506.3	235.1		17.4	1.000021
6600.0	55.9	-62.3	92.5	505.7	240.1		17.7	1.000021
6650.0	54.5	-62.7	90.3	505.1	243.0		17.4	1.000020
6700.0	53.2	-61.4	87.5	507.0	244.5		17.9	1.000019
6750.0	51.3	-59.6	84.7	509.3	245.0		18.8	1.000019
6800.0	50.7	-58.8	82.4	570.4	240.0		19.1	1.000018
6850.0	49.5	-58.9	80.5	570.2	248.3		18.2	1.000018
6900.0	48.3	-58.9	75.9	570.2	251.3		17.5	1.000017
6950.0	47.2	-58.9	70.7	570.2	258.5		17.3	1.000017
7000.0	45.0	-58.9	74.9	570.2	260.3		17.4	1.000017
7050.0	44.9	-58.4	72.9	570.9	263.0		17.1	1.000016
7100.0	43.9	-57.8	71.0	571.7	270.4		16.7	1.000016
7150.0	42.8	-57.2	69.1	572.4				1.000015
7200.0	41.3	-56.6	67.3	573.2				1.000015
7250.0	40.5	-56.0	65.5	574.0				1.000015
7300.0	39.9	-55.5	63.8	574.0				1.000014

STAFF ALTITUDE 3997.30 FEET MSL
 19 OCT. 79 0930 HRS MST
 ASSESSMENT NO. 337

MANDATORY LEVELS
 29200.0357
 5 MIN

GEODETTIC COORDINATES
 32-40034 LAT DEG
 105-42307 LONG DEG

TABLE 9

PRESSURE EQUIVALENTIAL		TEMPERATURE		REL. HUMID.	WIND DATA	
HALLIBARS	FEET	AIR DEGREES	WET POINT DEGREES	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS
650.0	4870.	16.0	5.0	44.	233.9	10.5
600.0	6567.	13.2	3.0	52.	247.2	22.7
750.0	6337.	10.1	-7.5	28.	257.8	31.8
700.0	10220.	9.2	-15.3	16.	266.9	34.4
650.0	12219.	5.5	-19.0	15.	270.2	31.9
600.0	14340.	1.5	-23.0	14.	270.2	32.5
550.0	16220.	-3.5	-13.0	44.	270.8	29.3
500.0	19070.	-10.1	-13.0	74.	274.6	27.6
450.0	21726.	-12.0	-22.3	42.	292.1	37.9
400.0	24050.	-10.9	-32.0	24.	313.3	27.6
350.0	2780.	-25.8	-38.2	30.	331.6	20.1
300.0	31479.	-35.7	-45.3	30.	337.2	24.1
250.0	35339.	-46.7			354.5	31.3
200.0	40271.	-57.5			347.0	43.9
175.0	43004.	-62.8			331.9	36.2
150.0	46070.	-67.8			310.8	49.5
125.0	49063.	-67.7			290.5	44.9
100.0	54159.	-68.7			270.3	30.8
80.0	58504.	-67.6			260.1	32.6
70.0	61153.	-61.7			279.2	29.3
60.0	64310.	-61.0			207.3	15.4
50.0	68031.	-58.9			247.1	10.6
40.0	72646.	-55.5				

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