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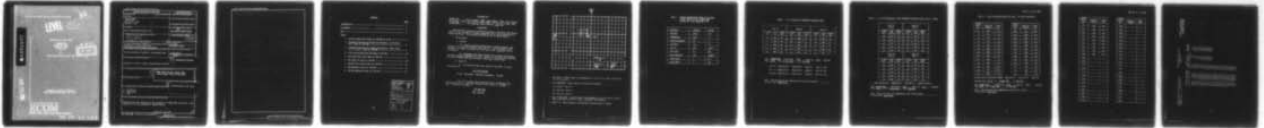
ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2
19305A GSRS, MISSILE NUMBER 1033, ROUND NUMBER V-36, 31 MAY 197--ETC(U)
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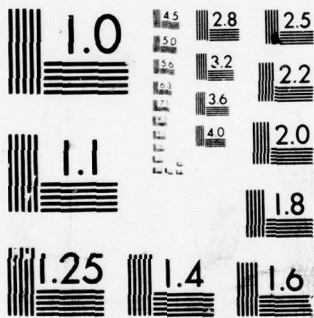
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

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DR 1026
May 1979

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METEOROLOGICAL DATA REPORT

19305A GSRS
Missile No. 1033
Round No. V-36
31 May 1979

by

White Sands Meteorological Team

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ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR 1026	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
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18. SUPPLEMENTARY NOTES	⁽⁹⁾ Meteorological data rept.	
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) 1. Ballistics 2. Meteorology 3. Wind		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 19305A GSRS, Missile No. 1033, Round No. V-36, are presented in tabular form.		

420 663

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INTRODUCTION

19305A GSRS, Missile Number 1032, Round Number V-36, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1310 MDT, 31 May 1979. The scheduled launch time was 1310 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 RPTS T-9 pilot observation at:

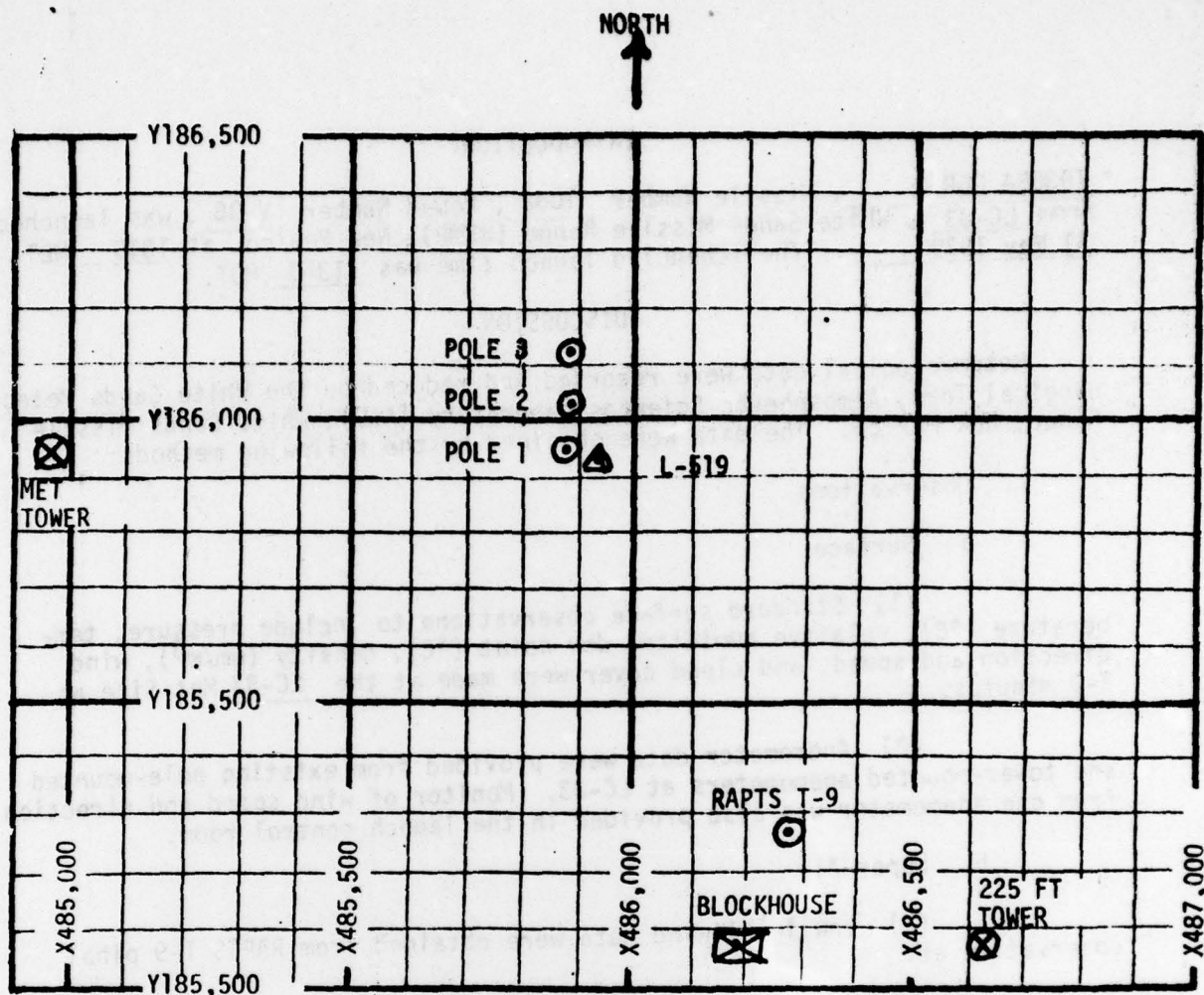
SITE AND ALTITUDE

LC-33 1020 meters (30-meter increments) 1310 MDT

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 62,500 feet in 500-foot increments.

SITE AND TIME

SMR 1125 MST



1. MET TOWER - 4 Bendix Model T-120 Anemometers at 12 ft, 62 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 - 83.6 ft
3. 225 FT WIND TOWER - 5 Bendix Model T-120 Anemometers at 35 ft, 88 ft, 128 ft, 168 ft and 200 ft with 5 X-Y visual indicators in Blockhouse.
4. RAPTS T-9 - Radar Automatic Pilot-Balloon Tracking System T-9 Radar

TABLE 1. SURFACE OBSERVATIONS TAKEN AT 1310 MDT,
 31 MAY 1979 AT LC-33, 19305A GSRS,
 MISSILE NO. 1033, ROUND NO. V-36

ELEVATION	3977.30	FT/MSL
PRESSURE	877.8	MBS
TEMPERATURE	32.2	°C
RELATIVE HUMIDITY	24	%
DEW POINT	9.0	°C
DENSITY	994	GM/M ³
WIND SPEED	05	MPH
WIND DIRECTION	075	DEGREES
CLOUD COVER	2	Cu
CLOUD COVER	1	TCu

TABLE 2. LC-33 FIXED POLE ANEMOMETER-MEASURED WINDS

POLE #1			POLE #2			POLE #3		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	102	10	-30	096	10	-30	108	M
-20	094	10	-20	101	10	-20	108	M
-10	093	09	-10	093	09	-10	105	13
0.0	084	07	0.0	092	10	0.0	105	10
+10	092	06	+10	073	08	+10	103	11

Type 19305A GSRS, Missile No. 1033, Round No. V-36 launched
from LC-33 on 31 May 1979 at 1310 MDT.

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

NOTE: Wind directions are referenced to the firing azimuth _____
or true north true north.

TABLE 3. LC-33 METEOROLOGICAL TOWER ANEMOMETER-MEASURED WINDS (202 FT. TOWER)

LEVEL #1 12 ft.			LEVEL #2 62 ft.		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	157	08	-30	133	10
-20	157	09	-20	147	09
-10	157	11	-10	146	11
0.0	147	08	0.0	159	10
+10	168	08	+10	150	08
LEVEL #3 102 ft.			LEVEL #4 202 ft.		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	146	10	-30	135	06
-20	142	07	-20	102	06
-10	142	06	-10	117	05
0.0	168	07	0.0	135	06
+10	166	08	+10	146	06

WTSM Coordinates: X484,982.64 Y185,957.73 H3983.00 (base)

Type 19305A GSRS, Missile No. 1033, Round No. V-36 launched
from LC-33 on 31 May 1979 at 1310 MDT.

NOTE: Wind directions are referenced to the firing azimuth _____
or true north true north.

TABLE 4. PILOT-BALLOON-MEASURED WIND DATA (30-METER INCREMENTS)

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
SFC	075	5.0
30	123	3.0
60	171	0.5
90	112	3.5
120	052	6.0
150	066	8.0
180	080	9.5
210	074	8.5
240	068	7.5
270	075	9.0
300	081	10.0
330	084	10.5
360	086	11.0

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
390	077	10.0
420	068	9.0
450	072	6.5
480	076	4.0
510	100	3.5
540	123	3.0
570	104	3.5
600	085	4.0
630	127	4.5
660	168	4.5
690	163	4.5
720	158	4.5
750	147	4.0

Release Point Coordinates (WSTM): X486,037.24 Y486,037.24 H3977.30

Released from LC-33 on 31 May 1979 at 1310 MDT.

Type 19305A GSRS, Missile No. 1033, Round No. V-36 launched from LC-33 on 31 May 1979 at 1310 MDT.

NOTE: Wind directions are referenced to the firing azimuth _____ or true north true north.

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
780	136	3.0
810	133	4.5
840	130	5.5
870	127	6.0
900	123	6.0
930	123	6.5
960	123	6.5
990	133	6.5
1020	142	6.5
1050		
1080		
1110		
1140		
1170		
1200		
1230		
1260		
1290		
1320		
1350		
1380		
1410		

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
1440		
1470		
1500		
1530		
1560		
1590		
1620		
1650		
1680		
1710		
1740		
1770		
1800		
1830		
1860		
1890		
1920		
1950		
1980		
2010		
2040		
2070		

STATION ALTITUDE 997.30 FEET MSL
 31 MAY 79
 ASCENSION NO. 161

SIGNIFICANT LEVEL DATA
 1510060161
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
875.9	3997.3	29.7	9.6
864.3	4418.0	25.6	5.8
850.0	4898.5	24.6	4.4
810.3	6266.0	20.6	11.0
777.6	7422.7	18.0	-2.8
706.0	10341.0	9.8	-3.5
590.3	14809.8	-2.9	-8.9
522.8	13016.2	-9.3	-31.1
503.0	19144.4	-11.6	-33.1
458.3	20764.4	-14.8	-31.7
409.8	24058.1	-22.4	-37.8
400.0	24842.1	-23.3	-39.9
374.6	26193.5	-26.8	-44.9
317.6	30037.9	-36.7	-49.4
300.0	31341.1	-40.7	
282.6	32655.6	-43.9	
250.0	35350.8	-49.1	
233.8	36791.2	-51.5	
200.0	40107.0	-54.7	
191.3	41043.5	-55.3	
167.3	41483.5	-54.6	
161.8	44566.6	-56.0	
150.0	45145.7	-58.4	
128.3	49371.9	-60.4	
104.6	53454.5	-68.2	
100.0	54384.7	-67.5	
91.8	56037.9	-66.9	
88.8	56753.9	-64.7	
75.3	59276.6	-66.9	
70.0	61516.9	-65.9	
65.2	62956.0	-61.5	

STATION ALTITUDE 3997.30 FEET MSL
 31 MAY 79 1125 HRS MST
 ASCENSION NO. 101

UPPER AIR DATA
 1510060161
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DWPPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
3997.3	876.9	29.7	9.8	29.0	1003.4	679.7	.0	.0	1.000274
4000.0	876.8	29.7	9.7	29.0	1003.4	679.7	27.9	.0	1.000274
4500.0	861.8	25.4	5.5	27.8	1001.6	674.5	27.9	1.2	1.000262
5000.0	847.0	24.3	5.1	29.0	988.1	673.2	27.9	2.4	1.000258
5500.0	832.3	22.8	8.1	38.9	974.8	671.9	27.9	3.6	1.000264
6000.0	817.9	21.4	10.2	48.7	961.8	670.5	27.2	3.6	1.000269
6500.0	803.6	20.1	8.7	49.7	949.7	668.9	24.8	2.3	1.000261
7000.0	789.5	19.0	3.2	35.0	938.1	667.1	24.9	1.2	1.000243
7500.0	775.6	17.8	-2.8	24.4	926.5	665.3	105.6	.3	1.000229
8000.0	761.8	16.4	-2.7	27.0	914.3	663.7	145.6	2.0	1.000226
8500.0	748.1	15.0	-2.6	29.5	902.2	662.1	143.7	4.1	1.000224
9000.0	734.7	13.6	-2.7	32.1	890.4	660.5	140.3	5.6	1.000221
9500.0	721.6	12.2	-2.9	34.7	878.8	659.9	145.3	7.8	1.000219
10000.0	708.7	10.8	-3.2	37.2	867.3	657.3	151.3	8.7	1.000216
10500.0	695.8	9.4	-3.6	39.8	855.9	655.8	159.6	8.7	1.000213
11000.0	682.9	8.0	-4.0	42.5	844.2	654.0	168.8	8.8	1.000210
11500.0	670.3	6.6	-4.5	45.1	832.7	652.4	167.7	8.6	1.000207
12000.0	657.8	5.2	-5.0	47.8	821.4	650.7	168.8	8.7	1.000204
12500.0	645.6	3.8	-5.6	50.4	810.2	649.1	170.3	9.5	1.000200
13000.0	633.6	2.4	-6.2	53.0	799.3	647.4	179.7	10.6	1.000197
13500.0	621.9	1.0	-6.9	55.7	788.5	645.7	190.7	12.4	1.000194
14000.0	610.3	.4	-7.6	58.3	777.9	644.1	200.8	15.1	1.000191
14500.0	599.0	-1.3	-8.3	60.9	767.4	642.4	200.8	18.4	1.000188
15000.0	587.8	-3.1	-9.5	61.3	755.9	640.8	212.6	21.4	1.000184
15500.0	576.5	-4.1	-12.1	53.6	745.4	639.5	210.3	24.3	1.000179
16000.0	565.4	-5.2	-15.0	46.0	734.1	638.1	219.5	26.4	1.000174
16500.0	554.5	-6.2	-18.1	38.3	722.9	636.8	222.4	28.3	1.000169
17000.0	543.8	-7.2	-21.6	30.6	711.9	635.5	224.5	28.9	1.000164
17500.0	533.4	-8.2	-25.7	22.9	701.1	634.2	226.6	29.4	1.000160
18000.0	523.1	-9.3	-30.9	15.2	690.4	633.0	230.3	30.4	1.000156
18500.0	512.9	-10.4	-31.9	15.0	679.7	631.8	234.3	31.5	1.000154
19000.0	502.9	-11.5	-32.9	15.0	669.3	630.3	230.5	31.8	1.000151
19500.0	492.9	-12.5	-32.7	16.5	658.5	629.1	238.5	31.2	1.000149
20000.0	483.2	-13.4	-32.2	18.7	647.8	628.0	239.9	26.5	1.000147
20500.0	473.6	-14.3	-31.8	20.8	637.2	626.9	240.1	22.9	1.000144
21000.0	464.2	-15.3	-32.1	22.1	626.9	625.7	236.9	21.3	1.000142
21500.0	454.8	-16.5	-33.0	22.2	617.1	624.3	231.4	21.7	1.000140
22000.0	445.7	-17.6	-33.9	22.4	607.4	622.8	225.1	23.8	1.000137
22500.0	436.7	-18.8	-34.9	22.5	597.9	621.4	220.8	24.7	1.000135
23000.0	427.9	-19.9	-35.8	22.7	588.5	620.0	210.5	25.5	1.000133

STATION ALTITUDE 3997.30 FEET MSL
 31 MAY 79 1125 HRS MST
 ASCENSION NO. 161

UPPER AIR DATA
 1510060161
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CENTIGRADE	REL. HUM. PERCENT	DENSITY GRAMS PER CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DEGREES (TN)	SPEED KNOTS	
23500.0	419.2	-21.1	22.8	579.3	618.6	216.1	26.3	1.000131
24000.0	410.8	-22.3	23.0	570.3	617.1	216.4	27.1	1.000128
24500.0	402.4	-23.1	20.7	560.4	616.1	219.6	27.1	1.000126
25000.0	394.1	-24.1	19.1	551.1	614.8	224.3	27.0	1.000124
25500.0	385.9	-25.2	17.8	542.2	613.5	227.1	27.2	1.000122
26000.0	377.9	-26.4	16.5	533.4	612.1	229.1	27.5	1.000120
26500.0	370.0	-27.6	16.7	524.8	610.5	229.1	27.1	1.000118
27000.0	362.1	-28.9	17.9	516.3	608.9	229.8	26.9	1.000116
27500.0	354.4	-30.2	19.1	508.1	607.3	231.5	26.9	1.000114
28000.0	346.9	-31.4	20.2	499.9	605.7	231.8	27.7	1.000112
28500.0	339.5	-32.7	21.4	491.9	604.1	231.2	29.2	1.000110
29000.0	332.3	-34.0	22.6	484.1	602.5	229.6	29.9	1.000108
29500.0	325.2	-35.3	23.7	476.3	600.8	227.6	30.1	1.000107
30000.0	318.3	-36.6	24.9	468.8	599.2	226.5	29.4	1.000105
30500.0	311.4	-38.1	16.1**	461.5	597.3	225.8	28.3	1.000103
31000.0	304.6	-39.7	6.5**	454.4	595.3	225.2	27.5	1.000101
31500.0	297.9	-41.1		447.1	593.5	224.6	26.9	1.000100
32000.0	291.3	-42.3		439.5	591.9	223.8	26.9	1.000098
32500.0	284.8	-43.5		432.0	590.3	223.0	27.3	1.000096
33000.0	278.4	-44.6		424.3	589.0	223.4	28.1	1.000094
33500.0	272.1	-45.5		416.4	587.8	225.2	29.5	1.000093
34000.0	265.9	-46.5		408.7	586.5	227.6	31.2	1.000091
34500.0	259.9	-47.5		401.2	585.3	231.4	34.1	1.000089
35000.0	254.0	-48.4		393.8	584.0	234.7	37.2	1.000086
35500.0	248.3	-49.3		386.5	582.8	235.7	37.7	1.000086
36000.0	242.6	-50.2		379.0	581.7	236.6	38.2	1.000084
36500.0	237.0	-51.0		371.7	580.6	235.9	37.4	1.000083
37000.0	231.5	-51.7		364.2	579.7	237.4	36.1	1.000081
37500.0	226.1	-52.2		356.5	579.1	237.4	35.2	1.000079
38000.0	220.9	-52.7		349.0	578.5	238.8	35.0	1.000078
38500.0	215.7	-53.1		341.6	577.8	240.1	34.9	1.000076
39000.0	210.7	-53.6		334.4	577.2	240.8	35.5	1.000074
39500.0	205.8	-54.1		327.3	576.6	241.5	36.0	1.000073
40000.0	201.0	-54.6		320.4	575.9	242.2	36.1	1.000071
40500.0	196.3	-55.0		313.4	575.5	242.9	35.9	1.000070
41000.0	191.7	-55.3		306.5	575.0	243.6	35.4	1.000068
41500.0	187.2	-54.6		298.4	575.9	244.7	34.0	1.000066
42000.0	182.8	-54.8		291.7	575.6	243.6	32.7	1.000065
42500.0	178.5	-55.1		285.1	575.3	240.5	32.0	1.000064
43000.0	174.3	-55.3		278.7	575.0	247.1	31.6	1.000062

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

UPPER AIR DATA
 151006010
 S M R

STATION ALTITUDE 3997.30 FEET MSL
 31 MAY 73 1125 HRS MST
 ASCENSION NO 161

GEODETIC COORDINATES
 32°48034 LAT DEG
 106°42307 LON DEG

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
3500.0	170.2	-55.5		272.5	574.7	247.9	30.8	1.000061
3400.0	166.2	-55.7		266.3	574.4	249.2	29.5	1.000059
4300.0	162.3	-56.0		260.4	574.1	250.7	28.1	1.000058
4500.0	158.5	-56.7		255.0	573.2	251.1	27.8	1.000057
4500.0	154.7	-57.4		249.8	572.2	251.3	27.8	1.000056
4600.0	151.1	-58.2		244.8	571.2	251.0	28.5	1.000055
4600.0	147.4	-58.6		239.4	570.5	250.1	30.5	1.000053
4700.0	143.9	-58.9		234.0	570.2	249.3	32.4	1.000052
4750.0	140.5	-59.2		228.8	569.8	248.1	33.8	1.000051
4800.0	137.1	-59.5		223.6	569.4	247.0	35.1	1.000050
4850.0	133.8	-59.9		218.6	569.0	246.7	35.7	1.000049
4900.0	130.6	-60.2		213.7	568.5	247.3	35.6	1.000048
4950.0	127.5	-60.6		209.0	567.9	247.8	35.4	1.000047
5000.0	124.4	-61.6		204.8	566.8	246.9	35.4	1.000046
5050.0	121.3	-62.6		200.7	565.4	250.0	35.3	1.000045
5100.0	118.4	-63.5		196.7	564.1	250.2	35.2	1.000044
5150.0	115.5	-64.5		192.7	562.6	249.0	34.9	1.000043
5200.0	112.6	-65.4		188.9	561.5	247.6	34.7	1.000042
5250.0	109.9	-66.4		185.1	560.2	247.1	33.9	1.000041
5300.0	107.2	-67.3		181.4	558.9	246.7	32.9	1.000040
5400.0	104.6	-68.2		177.7	557.5	246.0	31.9	1.000039
5450.0	102.0	-67.8		173.0	556.3	243.1	31.1	1.000038
5450.0	99.4	-67.5		168.4	555.7	240.0	30.4	1.000037
5500.0	97.0	-67.3		164.1	559.0	237.2	29.3	1.000036
5500.0	94.5	-67.1		159.9	559.2	234.4	27.5	1.000035
5500.0	92.2	-65.9		155.8	559.4	231.3	25.9	1.000035
5600.0	89.9	-65.5		150.9	561.3	231.5	24.6	1.000034
5700.0	87.7	-64.9		146.7	562.2	232.1	23.3	1.000033
5750.0	85.6	-65.4		143.4	561.6	232.9	22.3	1.000032
5800.0	83.4	-65.8		140.2	561.0	232.9	22.1	1.000031
5850.0	81.4	-66.2		137.0	560.4	232.9	21.9	1.000031
5900.0	79.4	-66.7		133.9	559.8	232.9	22.1	1.000030
5950.0	77.4	-66.8		130.7	559.0	232.9	22.7	1.000029
6000.0	75.5	-66.6		127.4	559.9	232.9	23.4	1.000028
6050.0	73.7	-66.4		124.1	560.2			1.000028
6100.0	71.8	-66.1		120.9	560.5			1.000027
6150.0	70.1	-65.9		117.8	560.8			1.000026
6200.0	68.4	-64.4		114.1	562.8			1.000025
6250.0	66.7	-62.9		110.5	564.9			1.000025

STATION ALTITUDE 3997.30 FEET MSL
 31 MAY 79 1125 HRS MST
 ASCENSION. NO. 101

MRN SIGNIFICANT LEVEL DATA
 1510060161
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TN)	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			AIR DEG C		
1912.	9999.**	9999.**	-9999.**	-9999.**	99	-61.5	6.520+1	
1865.	9999.**	9999.**	-9999.**	-9999.**	99	-65.9	7.000+1	
1801.	233.	12.	7.	3.	99	-66.9	7.830+1	
1724.	232.	12.	8.	10.	99	-64.7	8.880+1	
1704.	231.	13.	8.	10.	99	-66.9	9.180+1	
1653.	241.	16.	8.	14.	99	-67.5	1.000+2	

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

STATION ALTITUDE 997.30 FEET MSL
 31 MAY 79
 ASCENSION NO. 101

MANDATORY LEVELS
 1510060161
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DATA	
				DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4825.	24.6	27.	27.9	2.2
800.0	6624.	19.8	45.	24.3	2.0
750.0	6432.	15.2	29.	144.5	3.8
700.0	10331.	9.8	39.	156.8	6.7
650.0	12331.	4.3	44.	159.9	9.2
600.0	14447.	-1.7	61.	207.5	18.1
550.0	16698.	-6.6	35.	223.3	28.6
500.0	19117.	-11.8	15.	237.1	31.8
450.0	21739.	-17.1	22.	228.0	22.7
400.0	24601.	-23.3	20.	220.8	27.1
350.0	27760.	-30.9	20.	232.1	27.1
300.0	31279.	-40.7		224.8	27.1
250.0	35274.	-49.1		235.4	37.5
200.0	40010.	-54.7		242.3	30.1
175.0	42810.	-55.2		247.0	31.7
150.0	46021.	-58.4		250.8	29.0
125.0	49763.	-61.4		248.6	35.4
100.0	54217.	-67.5		240.9	30.6
80.0	58653.	-66.5		232.9	
70.0	61390.	-65.9			21.8

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

STATION ALTITUDE 3997.30 FEET MSL
 31 MAY 79 1125 HRS MST
 ASCENSION NO. 101

MRN MANDATORY LEVELS
 1510060161
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

GEOPOTENTIAL ALTITUDE METERS	DIRECTION DEG (TH)	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			AIR DEG C		
1659.	9999.**	9999.**	-9999.**	-9999.**	99	-65.9	7.000+1	
1780.	253.	11.	7.	9.	99	-66.5	8.000+1	
1553.	241.	16.	8.	14.	99	-67.5	1.000+2	
1517.	249.	18.	7.	17.	99	-61.4	1.250+2	
1403.	251.	15.	5.	14.	99	-58.4	1.500+2	
1502.	247.	16.	6.	15.	99	-55.2	1.750+2	
1220.	242.	19.	9.	16.	99	-54.7	2.000+2	
1075.	235.	19.	11.	16.	99	-49.1	2.500+2	
953.	225.	14.	10.	10.	99	-40.7	3.000+2	
840.	232.	14.	9.	11.	16	-30.9	3.500+2	
750.	221.	14.	11.	9.	17	-23.3	4.000+2	
603.	229.	12.	8.	9.	16	-17.1	4.500+2	
583.	237.	16.	9.	14.	21	-11.8	5.000+2	
509.	223.	15.	11.	10.	13	-6.6	5.500+2	
440.	207.	9.	8.	4.	07	-1.7	6.000+2	
370.	170.	5.	5.	-1.	10	4.3	6.500+2	
315.	157.	4.	4.	-2.	13	9.8	7.000+2	
257.	144.	2.	2.	-1.	18	15.2	7.500+2	
202.	24.	1.	-1.	-0.	12	19.8	8.000+2	
149.	28.	1.	-1.	-1.	20	24.6	8.500+2	

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