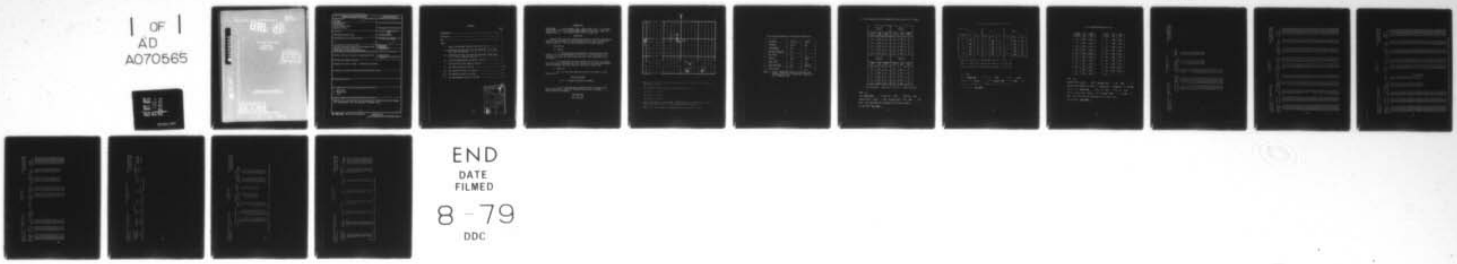
AD-A070 565 ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/G 4/2
19304D GSRS, MISSILE NUMBER 1021, ROUND NO. V-24.(U)
APR 79

UNCLASSIFIED ECOM-DR-1005 NL

| OF |
AD
A070565



END
DATE
FILMED
8-79
DDC

METEOROLOGICAL DATA REPORT

19304D GSRS
Missile No. 1021
Round No. V-24

SECURITY CLASSIFICATION OF THIS PAGE *(When Data Entered)*

REPORT DOCUMENTATION PAGE

READ INSTRUCTIONS BEFORE COMPLETING FORM

1. REPORT NUMBER: DR-1005	2. GOVT ACCESSION NO.
3. RECIPIENT'S CATALOG NUMBER	
4. TITLE *(and Subtitle)*: 19304D GSRS Missile Number 1021 Round No. V-24	5. TYPE OF REPORT & PERIOD COVERED
6. PERFORMING ORG. REPORT NUMBER	
7. AUTHOR(s): WSMR Meteorological Team	8. CONTRACT OR GRANT NUMBER(s): 1T6657-2D126-02
9. PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS: US Army Electronics Research & Development Comd, Atmospheric Sciences Laboratory, White Sands Missile Range, New Mexico	12. REPORT DATE: April 1979 13. NUMBER OF PAGES
14. MONITORING AGENCY NAME & ADDRESS *(if different from Controlling Office)*: US Army Electronics Research & Development Comd	15. SECURITY CLASS. *(of this report)*: UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT *(of this Report)*

Approved for public release; distribution unlimited.

17. DISTRIBUTION STATEMENT *(of the abstract entered in Block 20, if different from Report)*

18. SUPPLEMENTARY NOTES

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 19304D GSRS, Missile Number 1021, Round Nunber V-24, are presented in tabular form.

400 844

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE *(When Data Entered)*

CONTENTS

INTRODUCTION

19304D GSRS , Missile Number 1021 , Round Number V-24 , was launched from LC-33 , White Sands Missile Range (WSMR), New Mexico, at 1603 MST, 24 April 1979 . The scheduled launch time was 1600 MST.

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 (°C), relative humidity, dew point (°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.

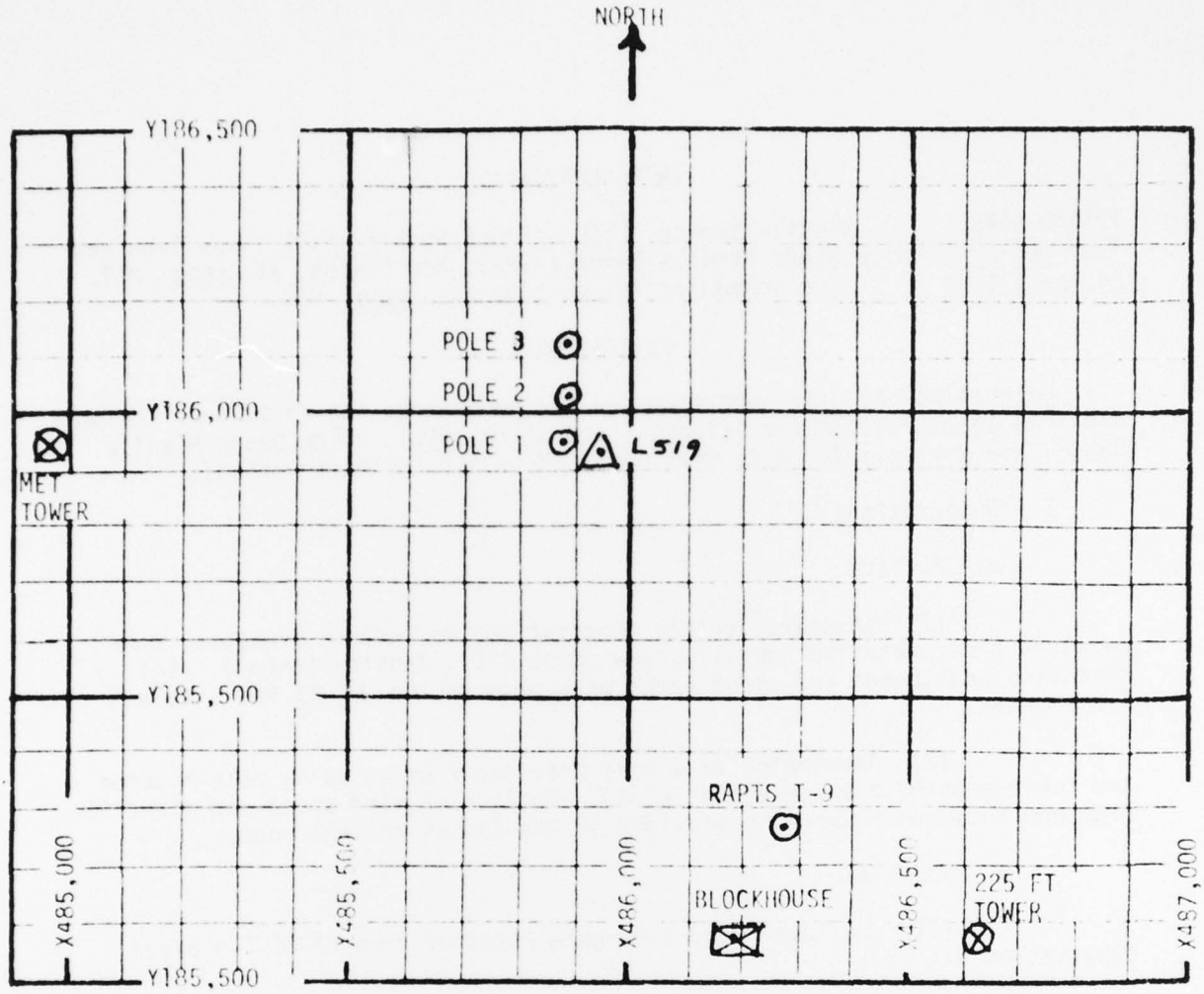
   b. Upper Air

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

SITE AND ALTITUDE
LC-33 1 kilometer (50-meter increments)

   (2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 53,500 feet in 500-feet increments.

SITE AND TIME
SMR 1530 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

The data are presented in the following tabulations:

ELEVATION	3977.30	FT/MSL
PRESSURE	873.6	MBS
TEMPERATURE	28.2	°C
RELATIVE HUMIDITY	26	%
DEW POINT	6.6	°C
DENSITY	1004	GM/M^3
WIND SPEED	10	MPH
WIND DIRECTION	260	DEGREES
CLOUD COVER	2	Cs

TABLE I. SURFACE OBSERVATIONS TAKEN AT 1605 LOCAL TIME. 24 APRIL 1979 at LC-33. 19304D GSPS, MISSILE NO. 102., ROUND NO. V-24.

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	225	13	-30	220	15
-20	230	14	-20	225	12
-10	250	12	-10	235	12
0.0	250	12	0.0	245	12
+10	270	13	+10	240	12
LEVEL #3 102 ft			**LEVEL #4 202 ft**		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	228	17	-30	240	14
-20	240	17	-20	227	18
-10	250	17	-10	229	20
0.0	252	14	0.0	237	17
+10	240	15	+10	234	14

WTSM COORDINATES: X484,182.64 Y185,957.73 H3983.00 (base)

TABLE II

TYPE 19304D GSRS MISSILE NO. 1021 ROUND NO. V-24

LAUNCHED FROM LC-33 DATE 24 April 1979 TIME 1603 MST

NOTE: WIND DIRECTIONS ARE REFERENCED TO THE FIRING AZIMUTH

OR TRUE NORTH TRUE NORTH.

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	245	16	-30	265	15	-30	235	22
-20	242	12	-20	264	11	-20	235	22
-10	246	15	-10	257	13	-10	233	20
0.0	250	15	0.0	265	12	0.0	235	21
+10	257	10	+10	275	11	+10	250	16

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 III

TYPE 19304D GSRS MISSILE NO. 1021 ROUND NO. V-24

LAUNCHED FROM LC-33 DATE 24 April 1979 TIME 1603 LST

NOTE: WIND DIRECTIONS ARE REFERENCED TO THE FIRING AZIMUTH

OR TRUE NORTH TRUE NORTH.

PILOT BALLOON MEASURED WIND DATA

HEIGHT METERS	DIR DEG	SPEED MPH
SUR	260	10.0
50	255	10.0
100	255	12.0
150	248	15.0
200	255	28.0
250	264	25.9
300	261	24.0
350	261	25.0
400	261	24.0
450	263	27.0
500	264	24.6

HEIGHT METERS	DIR DEG	SPEED MPH
550	264	28.6
600	255	30.0
650	258	27.0
700	257	25.0
750	257	25.5
800	262	25.0
850	262	26.0
900	268	27.0
950	265	24.0
1000	265	29.3
1050		

TABLE IV

RELEASED FROM LC-33 DATE 24 April 1979 TIME 1603 LST

RELEASE POINT COORDINATES (WSTM) X = 486,037.24 Y = 182.350.16 H = 3977.30

MISSILE TYPE 19304D GSRS MISSILE NO. 1021 ROUND NO. V-24

MISSILE LAUNCHED FROM LC-33 DATE 24 April 1979 TIME 1603 LST

NOTE: WIND DIRECTIONS ARE REFERENCED TO THE FIRING AZIMUTH OR TRUE NORTH TRUE NORTH.

SIGNIFICANT LEVEL DATA
1140060073
S M R .

STATION ALTITUDE 3997.30 FEET MSL
24 APR. 79 1530 HRS MST
ASCENSION NO. 73

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT
872.9	3997.3	29.0	-5.7	10.0
863.5	4911.9	27.6	.4	17.0
850.0	4767.3	25.4	-.6	18.0
830.0	5450.6	23.4	-1.5	19.0
770.8	7543.4	17.0	-6.6	19.0
700.0	10202.0	9.3	-11.9	21.0
658.8	11857.7	4.0	-13.5	27.0
608.2	14036.6	-1.9	-16.7	31.0
581.0	15145.3	-2.5	-19.5	26.0
524.6	17767.3	-6.8	-26.5	19.0
500.0	19012.6	-10.0	-26.2	25.0
456.0	21362.2	-16.0	-30.6	27.0
420.6	23310.8	-19.7	-31.6	33.0
400.0	24530.3	-22.8	-30.5	49.0
367.2	26571.7	-28.6	-32.6	68.0
342.0	28234.5	-32.6	-42.3	37.0
300.0	31221.5	-40.9	-50.1	36.0
250.0	35214.4	-51.3		
200.0	39899.7	-59.8		
185.2	41468.3	-63.6		
164.2	43897.1	-64.7		
156.4	44878.3	-63.3		
150.0	45721.6	-64.7		
141.4	46904.5	-66.7		
130.6	48493.1	-65.6		
123.6	49605.0	-62.8		
116.8	50752.2	-63.6		
106.6	52613.0	-61.0		
103.2	53275.9	-62.1		
100.0	53918.9	-61.7		

STATION ALTITUDE 3997.30 FEET MSL
24 APR. 79 1530 HRS MST
ASCENSION NO. 73

UPPER AIR DATA
11400.0073
S M R

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
3997.3	872.9	29.0	-5.7	10.0	1004.7	677.8	280.0	15.0	1.000240
4000.0	872.8	29.0	-5.6	10.1	1004.6	677.8	280.0	15.0	1.000241
4500.0	857.9	26.7	-.0	17.4	994.1	676.5	279.8	18.2	1.000247
5000.0	843.1	24.7	-.9	18.3	983.5	675.2	274.6	21.4	1.000244
5500.0	828.6	23.2	-1.6	19.0	973.4	674.5	273.0	24.6	1.000240
6000.0	814.0	21.7	-2.9	19.0	959.5	669.7	271.7	27.9	1.000235
6500.0	799.8	20.2	-4.1	19.0	947.8	667.9	270.6	26.3	1.000231
7000.0	785.8	18.7	-5.4	19.0	936.2	666.2	269.3	23.6	1.000227
7500.0	772.0	17.1	-6.6	19.0	924.6	664.4	267.7	20.9	1.000223
8000.0	758.2	15.7	-7.6	19.3	912.9	662.7	265.7	18.9	1.000219
8500.0	744.5	14.2	-8.6	19.7	901.1	661.0	263.4	17.6	1.000215
9000.0	731.2	12.8	-9.5	20.1	889.5	659.3	260.8	16.4	1.000212
9500.0	718.0	11.3	-10.5	20.5	878.0	657.6	257.7	15.1	1.000208
10000.0	705.1	9.9	-11.5	20.8	866.7	655.9	255.4	14.9	1.000205
10500.0	692.3	8.3	-12.1	22.1	855.7	654.0	253.3	15.1	1.000202
11000.0	679.6	6.7	-12.4	23.9	844.8	652.2	251.3	15.3	1.000200
11500.0	667.1	5.1	-12.9	25.8	834.2	650.3	249.6	15.6	1.000197
12000.0	654.8	3.6	-13.5	27.3	823.3	648.5	249.3	16.2	1.000194
12500.0	642.5	2.2	-14.3	28.2	811.8	646.9	248.8	16.8	1.000191
13000.0	630.5	.9	-15.1	29.1	800.6	645.3	248.3	18.3	1.000188
13500.0	618.6	-.5	-15.9	30.0	789.5	643.7	247.8	19.9	1.000185
14000.0	607.0	-1.8	-16.7	30.9	778.5	642.1	248.5	21.9	1.000182
14500.0	595.5	-2.2	-17.8	28.9	768.8	641.6	249.6	24.2	1.000178
15000.0	584.2	-2.4	-19.0	26.7	759.1	641.3	250.4	26.1	1.000174
15500.0	573.1	-3.1	-20.2	25.1	748.6	640.5	250.5	26.1	1.000171
16000.0	562.1	-3.9	-21.6	23.7	738.7	639.5	250.5	26.2	1.000168
16500.0	551.4	-4.7	-22.9	22.4	729.0	638.5	252.5	26.9	1.000164
17000.0	540.8	-5.5	-24.3	21.1	719.5	637.5	254.7	27.5	1.000161
17500.0	530.5	-6.3	-25.7	19.8	709.2	636.5	258.1	28.6	1.000158
18000.0	520.2	-7.4	-26.4	20.0	699.5	635.3	261.3	29.7	1.000156
18500.0	510.1	-8.7	-26.2	22.5	689.6	633.7	264.6	30.5	1.000153
19000.0	500.2	-10.0	-26.2	24.9	679.8	632.2	267.7	31.4	1.000151
19500.0	490.4	-11.3	-27.1	25.4	670.0	630.6	270.6	33.6	1.000149
20000.0	480.7	-12.6	-28.1	25.9	660.3	629.0	273.5	36.0	1.000146
20500.0	471.2	-13.9	-29.0	26.3	650.8	627.5	275.2	37.9	1.000144
21000.0	461.9	-15.2	-30.0	26.7	641.5	625.9	276.7	39.8	1.000142
21500.0	452.7	-16.3	-30.7	27.5	632.9	624.4	277.9	43.7	1.000139
22000.0	443.6	-17.3	-31.0	29.0	624.7	623.3	278.8	48.1	1.000137
22500.0	434.7	-18.2	-31.3	30.6	616.7	622.2	279.2	47.1	1.000135
23000.0	425.9	-19.1	-31.6	32.1	608.9	621.0	279.1	45.6	1.000133

UPPER AIR DATA
11400600?5
S M R

STATION ALTITUDE 3997.30 FEET MSL
24 APR. 79 1530 HRS MST
ASCENSION NO. 73

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
23500.0	417.3	-20.2	-31.5	35.5	574.5	619.7	272.6	42.8	1.000131
24000.0	408.8	-21.5	-30.9	42.0	565.6	618.2	272.8	43.5	1.000129
24500.0	400.5	-22.7	-30.5	48.6	556.9	616.6	274.1	46.4	1.000127
25000.0	392.2	-24.1	-30.9	53.4	548.4	614.9	273.9	48.7	1.000125
25500.0	384.1	-25.6	-31.3	58.0	540.2	613.1	273.1	50.7	1.000123
26000.0	376.1	-27.0	-31.9	62.7	532.0	611.4	274.2	50.7	1.000121
26500.0	368.3	-28.4	-32.5	67.3	524.0	609.6	276.2	49.7	1.000119
27000.0	360.5	-29.6	-34.9	60.0	515.6	608.0	279.7	48.8	1.000117
27500.0	352.9	-30.8	-37.7	50.7	507.2	606.5	285.6	48.2	1.000115
28000.0	345.4	-32.0	-40.7	41.4	499.0	605.0	289.6	48.2	1.000112
28500.0	338.0	-33.3	-43.0	36.9	491.0	603.3	289.4	48.7	1.000110
29000.0	330.7	-34.7	-44.3	36.7	483.1	601.6	289.3	49.8	1.000108
29500.0	323.5	-36.1	-45.6	36.6	475.4	599.8	289.2	51.4	1.000107
30000.0	316.5	-37.5	-46.9	36.4	467.9	598.1	290.2	54.1	1.000105
30500.0	309.6	-38.9	-48.2	36.2	460.4	596.3	291.3	56.9	1.000103
31000.0	302.9	-40.3	-49.5	36.1	453.1	594.5	290.2	57.9	1.000101
31500.0	296.2	-41.6	-51.3	33.5**	445.7	592.8	288.8	58.6	1.000100
32000.0	289.5	-42.9	-53.7	29.0**	438.1	591.1	288.7	60.0	1.000098
32500.0	283.0	-44.2	-56.2	24.5**	430.6	589.4	288.8	61.5	1.000096
33000.0	276.6	-45.5	-59.0	20.0**	423.3	587.8	290.3	63.2	1.000094
33500.0	270.4	-46.8	-62.0	15.5**	416.1	586.1	291.8	64.8	1.000093
34000.0	264.3	-48.1	-65.7	10.9**	409.1	584.4	293.6	66.0	1.000091
34500.0	258.3	-49.4	-70.4	6.4**	402.2	582.7	294.9	67.3	1.000090
35000.0	252.5	-50.7	-79.2	1.9**	395.4	581.0	295.9	68.6	1.000088
35500.0	246.6	-51.8			388.2	579.6	297.2	72.2	1.000086
36000.0	240.8	-52.7			380.6	578.4	298.5	76.6	1.000085
36500.0	235.2	-53.6			373.2	577.2	299.9	81.4	1.000083
37000.0	229.6	-54.5			365.9	576.0	301.1	86.3	1.000081
37500.0	224.2	-55.4			358.8	574.8	301.8	91.0	1.000080
38000.0	218.9	-56.4			351.8	573.6	302.4	95.7	1.000078
38500.0	213.8	-57.3			345.0	572.4	302.5	99.6	1.000077
39000.0	208.8	-58.2			338.3	571.2	302.6	103.4	1.000075
39500.0	203.8	-59.1			331.7	570.0	303.1	104.5	1.000074
40000.0	199.0	-60.0			325.3	568.7	303.8	104.7	1.000072
40500.0	194.2	-61.3			319.3	567.1	304.3	104.3	1.000071
41000.0	189.5	-62.5			313.3	565.5	304.7	103.1	1.000070
41500.0	184.9	-63.6			307.4	563.9	303.7	103.9	1.000068
42000.0	180.4	-63.8			300.2	563.6	302.1	105.7	1.000067
42500.0	176.0	-64.1			293.2	563.3	300.5	110.0	1.000065
43000.0	171.7	-64.3			286.3	563.0	299.4	112.1	1.000064

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

UPPER AIR DATA

STATION ALTITUDE 3997.30 FEET MSL
24 APR. 79 1530 HRS MST
ASCENSION NO. 73

1140060073
S M R

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
43500.0	167.5	-64.5			279.6	562.7	299.4	109.5	1.000062
44000.0	163.4	-64.6			272.9	562.6	299.6	105.0	1.000061
44500.0	159.4	-64.1			266.6	563.2	300.4	94.6	1.000059
45000.0	155.5	-63.9			258.9	563.5	301.4	84.4	1.000058
45500.0	151.7	-64.5			253.2	562.8	301.6	76.1	1.000056
46000.0	147.9	-65.2			247.8	561.8	301.6	67.8	1.000055
46500.0	144.3	-66.0			242.7	560.7	300.5	65.3	1.000054
47000.0	140.7	-66.6			237.4	559.9	298.6	62.9	1.000053
47500.0	137.3	-66.3			231.1	560.3	297.0	60.5	1.000051
48000.0	133.9	-65.9			225.0	560.8	295.4	58.2	1.000050
48500.0	130.6	-65.6			219.1	561.3	292.9	54.6	1.000049
49000.0	127.4	-64.3			212.5	563.0	290.0	50.9	1.000047
49500.0	124.2	-63.1			206.0	564.7	285.2	49.8	1.000046
50000.0	121.2	-63.1			201.1	564.6	280.3	49.4	1.000045
50500.0	118.3	-63.6			196.6	564.0	278.7	52.4	1.000044
51000.0	115.4	-63.4			191.7	564.2	277.4	55.3	1.000043
51500.0	112.6	-62.7			186.3	565.2	278.9	58.3	1.000041
52000.0	109.9	-61.9			181.2	566.2	280.3	61.3	1.000040
52500.0	107.2	-61.2			176.2	567.2			1.000039
53000.0	104.6	-61.6			172.3	566.6			1.000038
53500.0	102.1	-62.0			168.4	566.2			1.000037

MRN SIGNIFICANT LEVEL DATA

STATION ALTITUDE 3997.30 FEET MSL
24 APR. 79 1530 HRS MST
ASCENSION NO. 73

11400607S
S A R

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	WIND DATA DIRECTION DEG (TN)	SPEED MPS	N-S MPS	E-W MPS	DEW PT DEP DEG C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
1636•	9999.**	9999.**	-9999.**	-9999.**	99	-61.7	1.000+2

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

STATION ALTITUDE 3997.30 FEET MSL
24 APR. 79 1530 HRS MST
ASCENSION NO. 73

MANDATORY LEVELS
11400600?5
S M R

GEODETIC COORDINATES
32.46034 LAT DEG
106.42307 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS
850.0	4764.	25.4	-.6	18.	275.5	19.9
800.0	6492.	20.2	-4.1	19.	270.6	26.4
750.0	8296.	14.8	-9.2	20.	264.3	18.2
700.0	10192.	9.3	-11.9	21.	254.6	15.0
650.0	12183.	3.0	-13.8	28.	249.1	16.5
600.0	14286.	-2.0	-17.3	30.	249.2	23.3
550.0	16540.	-4.8	-23.1	22.	252.8	26.9
500.0	18986.	-10.0	-26.2	25.	267.8	31.4
450.0	21617.	-16.6	-30.8	26.	278.2	45.0
400.0	24490.	-22.8	-30.5	49.	274.1	46.5
350.0	27646.	-31.3	-38.8	47.	287.9	48.1
300.0	31160.	-40.9	-50.1	38.	289.6	58.2
250.0	35136.	-51.3			296.3	69.5
200.0	39804.	-59.8			303.6	104.7
175.0	42506.	-64.1			300.2	110.8
150.0	45599.	-64.7			301.7	72.8
125.0	49236.	-63.4			286.6	50.1
100.0	53756.	-61.7				

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

VRN MANDATORY LEVELS

STATION ALTITUDE 3997.30 FEET MSL
24 APR. 79 1530 HRS MST
ASCENSION NO. 73

1140060075
S M R

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	WIND DATA DIRECTION DEG (TN)	SPEED MPS	N-S MPS	E-W MPS	TEMPERATURE DEW PT DEP DEG C	AIR DEG C	PRESSURE MILLIBARS
1638.	9999.**	9999.**	-9999.**	-9999.**	99	-61.7	1.000+2
1501.	267.	25.	-7.	25.	99	-63.4	1.250+2
1390.	302.	37.	-20.	32.	99	-64.7	1.500+2
1296.	300.	57.	-29.	49.	99	-64.1	1.750+2
1213.	304.	54.	-30.	45.	99	-59.8	2.000+2
1071.	296.	36.	-18.	32.	99	-51.3	2.500+2
950.	290.	30.	-10.	28.	09	-40.9	3.000+2
843.	280.	25.	-5.	24.	08	-31.3	3.500+2
746.	274.	24.	-2.	24.	08	-22.8	4.000+2
659.	275.	23.	-3.	23.	14	-15.6	4.500+2
579.	268.	16.	1.	16.	16	-10.0	5.000+2
504.	253.	14.	4.	13.	16	-4.8	5.500+2
436.	249.	12.	4.	11.	15	-2.0	6.000+2
371.	249.	8.	3.	8.	17	3.0	6.500+2
311.	255.	8.	2.	7.	21	9.3	7.000+2
253.	264.	9.	1.	9.	23	14.8	7.500+2
198.	271.	14.	-0.	14.	24	20.2	8.000+2
145.	276.	16.	-1.	16.	26	25.4	8.500+2

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