

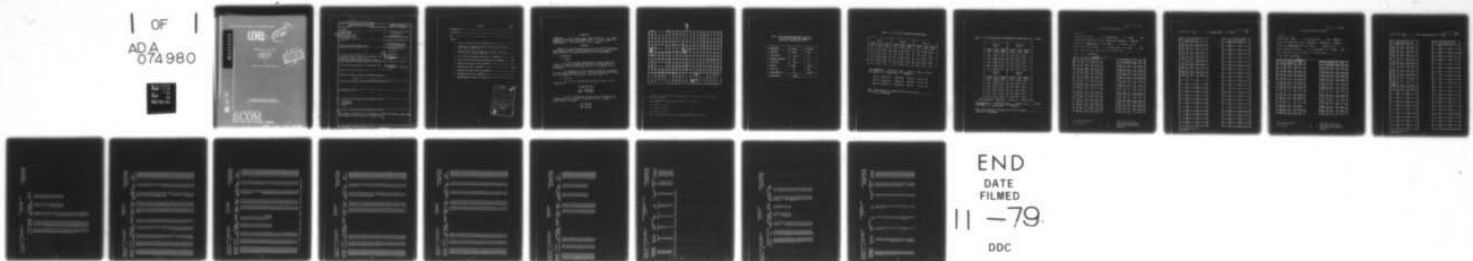
AD-A074 980 ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2
19304DT 6SRS MISSILE NUMBER 1035, ROUND NUMBER V-57.(U)

UNCLASSIFIED

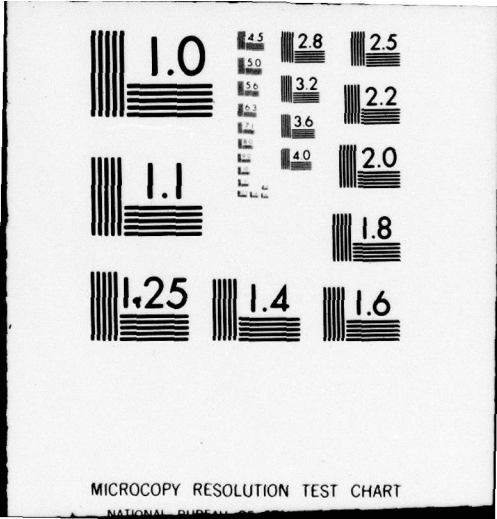
JUL 79
ERADCOM/ASL-DR-1046

NL

| OF |
ADA
074980



END
DATE
FILMED
11 -79
DDC



MICROCOPY RESOLUTION TEST CHART

NATIONAL BUREAU OF STANDARDS-1963-A

LEVEL *IV*

Go

METEOROLOGICAL DATA REPORT

**195049F 0885
Missile No. 1035
Band No. V-37
25 July 1979**

by

White Sands Meteorological Team

RE

**ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO**

14 ERADCOM/ASL-DR-1046

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

| REPORT DOCUMENTATION PAGE | | READ INSTRUCTIONS BEFORE COMPLETING FORM |
|---|---|---|
| 1. REPORT NUMBER DR 1046 | 2. GOVT ACCESSION NO. | 3. RECIPIENT'S CATALOG NUMBER |
| 4. TITLE (and Subtitle) 19304DT GSRs, Missile Number 1035, Round Number V-57, | 5. TYPE OF REPORT & PERIOD COVERED 12/21/79 | |
| | 6. PERFORMING ORG. REPORT NUMBER | |
| 7. AUTHOR(s) White Sands Meteorological Team | 8. CONTRACT OR GRANT NUMBER(s) 16 DA Task 1T665702D126-02 | |
| 9. PERFORMING ORGANIZATION NAME AND ADDRESS | 10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 1702 | |
| 11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Comd Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 88002 | 11. REPORT DATE 26 Jul 1979 | |
| 14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research & Development Comd | 13. NUMBER OF PAGES 7 | |
| | 15. SECURITY CLASS. (of this report) UNCLASSIFIED | |
| 16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited. 9 Meteorological data repts, | | |
| 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 gather for the launching of 19304DT GSRs, Missile Number 1035, Round Number V-57, are presented in tabular form. | | |

JO 13

| CONTENTS | PAGE |
|--|-------|
| INTRODUCTION----- | 1 |
| DISCUSSION----- | 1 |
| MAP----- | 2 |
| TABLES | |
| 1. Surface Observation Taken at 0900 MDT at LC-33----- | 3 |
| 2. Anemometer-Measured Wind Speed and Direction, LC-33 Fixed Pole, Taken at 0900 MDT----- | 4 |
| 3. Anemometer-Measured Wind Speed and Direction, Tower Levels 1, 2, 3, and 4, taken at 0900 MDT----- | 5 |
| 4. LC-33 Pilot Balloon Measured Wind Data at 0900 MDT ----- | 6-7 |
| 5. Nick Site Pilot Balloon Measured Wind Data at 0900 MDT----- | 8-9 |
| 6. SMR-Significant Level Data at 0800 MST----- | 10 |
| 7. SMR Upper Air Data at 0800 MST----- | 11-15 |
| 8. SMR MRN Significant Level Data 0800 MST----- | 16 |
| 9. SMR Mandatory Levels at 0800 MST----- | 17 |
| 10. SMR MRN Mandatory Levels at 0800 MST----- | 18 |

| | |
|--------------------|-------------------------------------|
| Accession For | |
| NTIS GSA&I | <input checked="" type="checkbox"/> |
| DDC TAB | <input type="checkbox"/> |
| Unannounced | <input type="checkbox"/> |
| Justification | <input type="checkbox"/> |
| By _____ | |
| Distribution/ | |
| Availability Codes | |
| Dist | Avail and/or special |
| A | |

INTRODUCTION

19304DT GSRS , Missile Number 1035 , Round Number V-57 , was launched from LC-33 , White Sands Missile Range (WSMR), New Mexico, at 0900 MDT, 26 July 1979 . The scheduled launch time was 0900 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:

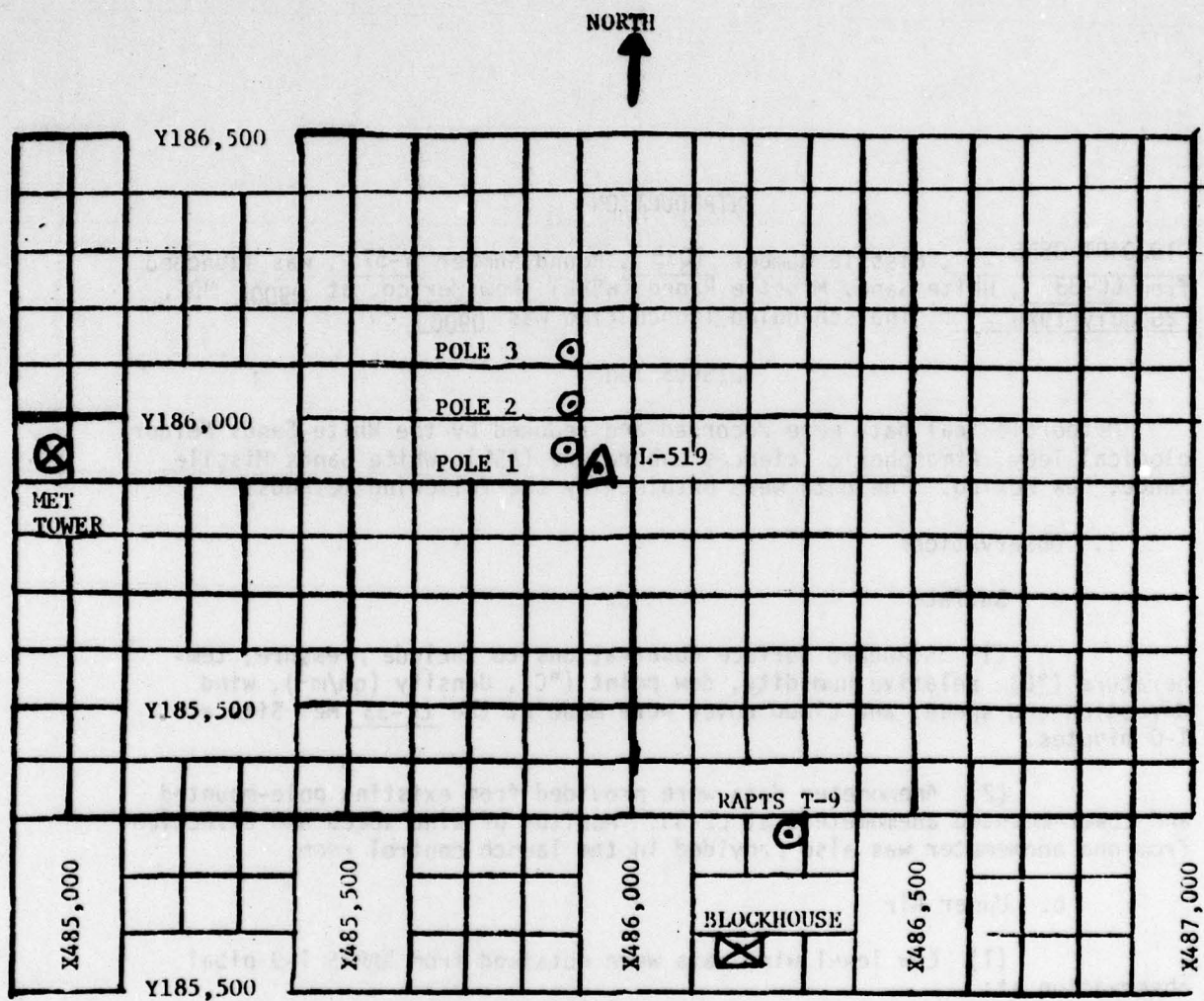
SITE AND ALTITUDE

LC-33 1020 Meters
NICK 1110 Meters

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 94,000 feet in 500-foot increments.

SITE AND TIME

SMR 0800 MST



1. MET TOWER - 4 Bendix Model T-20 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. RAPT'S T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.

TABLE 1. Surface observations taken at LC-33
 26 July 1979 at 0900 MDT, 19304DT GSRS,
 Missile No. 1035, Round No. V-57.

| | | |
|-------------------|--------|-------------------|
| ELEVATION | 3977.3 | FT/MSL |
| PRESSURE | 881.9 | MBS |
| TEMPERATURE | 22.9 | °C |
| RELATIVE HUMIDITY | 69 | % |
| DEW POINT | 16.8 | °C |
| DENSITY | 1030 | GM/M ³ |
| WIND SPEED | 05 | MPH |
| WIND DIRECTION | 40 | DEGREES |
| CLOUD COVER | CLEAR | |

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 | 165 | 07 | -30 | 174 | 07 | -30 | 163 | 09 |
| -20 | 174 | 07 | -20 | 165 | 07 | -20 | 177 | 10 |
| -10 | 180 | 08 | -10 | 159 | 08 | -10 | 176 | 08 |
| 0.0 | 178 | 05 | 0.0 | 171 | 08 | 0.0 | 180 | 08 |
| +10 | 167 | 06 | +10 | 170 | 07 | +10 | 151 | 09 |

Type 19304 GSRS, Missile No. 1035, Round No. V-57 launched from LC-33 on 26 July 1979 at 0900 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 | 038 | 05 | -30 | 159 | 06 |
| -20 | 042 | 05 | -20 | 148 | 07 |
| -10 | 040 | 03 | -10 | 143 | 06 |
| 0.0 | 048 | 04 | 0.0 | 159 | 08 |
| +10 | 042 | 03 | +10 | 157 | 07 |
| LEVEL #3 102 ft. | | | LEVEL #4 202 ft. | | |
| T-TIME SEC | DIR DEG | SPEED MPH | T-TIME SEC | DIR DEG | SPEED MPH |
| -30 | 158 | 07 | -30 | 153 | 07 |
| -20 | 165 | 06 | -20 | 162 | 07 |
| -10 | 174 | 06 | -10 | 162 | 08 |
| 0.0 | 177 | 06 | 0.0 | 154 | 10 |
| +10 | 177 | 06 | +10 | 151 | 10 |

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

Type 19304 GSRS, Missile No. 1035, Round No. V-57 launched
from LC-33 on 26 July 1979 at 0900 MDT.

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

PILOT BALLOON MEASURED WIND DATA*

TABLE 4

RELEASED FROM LC-33 DATE 26 July 1979 TIME 0900 MDT

RELEASE POINT COORDINATES (WSTM) X= 486,037.24 Y=182,350.16 H=3977.30

MISSILE TYPE 19304DT GSRS MISSILE NO. 1035 ROUND NO. V-57

MISSILE LAUNCHED FROM LC-33 DATE 26 July 1979 TIME 0900 MDT

NOTE: WIND DIRECTIONS ARE REFERENCED TO THE FIRING AZIMUTH

OR TRUE NORTH true north

Heights are METERS AGL METERS or FEET AGL

| HEIGHT AGL | DIRECTION DEGREES | SPEED MPH |
|---------------|----------------------|--------------|
| SFC | 140 | 05.0 |
| 30 | 093 | 02.5 |
| 60 | 045 | 02.0 |
| 90 | 094 | 01.0 |
| 120 | 142 | 02.0 |
| 150 | 143 | 07.5 |
| 180 | 144 | 12.5 |
| 210 | 151 | 12.0 |
| 240 | 157 | 11.5 |
| 270 | 148 | 10.5 |
| 300 | 138 | 09.5 |
| 330 | 140 | 10.0 |
| 360 | 141 | 10.0 |

| HEIGHT AGL | DIRECTION DEGREES | SPEED MPH |
|---------------|----------------------|--------------|
| 390 | 145 | 10.5 |
| 420 | 148 | 10.5 |
| 450 | 150 | 11.5 |
| 480 | 152 | 12.0 |
| 510 | 147 | 16.0 |
| 540 | 141 | 19.5 |
| 570 | 133 | 19.0 |
| 600 | 125 | 18.5 |
| 630 | 123 | 20.5 |
| 660 | 120 | 22.5 |
| 690 | 120 | 22.0 |
| 720 | 120 | 22.0 |
| 750 | 125 | 20.5 |

DELAS-MS-MT-WS Form 46
1 Sept 1979

6

Replaces DELAS-MS-MT-WS
forms 46-A & 46-B and all
other Pibal forms which are
obsolete.

PILOT BALLOON MEASURED WIND DATA*

TABLE 5

RELEASED FROM NICK DATE 26 July 1979 TIME 0900 MDT
 RELEASE POINT COORDINATES (WSTM) X=470,734.56 Y=255,775.64 H=4126.57
 MISSILE TYPE 19304DT GSR MISSILE NO. 1035 ROUND NO. V-57
 MISSILE LAUNCHED FROM LC-33 DATE 26 July 1979 TIME 0900 MDT
 NOTE: WIND DIRECTIONS ARE REFERENCED TO THE FIRING AZIMUTH _____
 OR TRUE NORTH true north

Heights are METERS AGL METERS or FEET AGL

| HEIGHT AGL | DIRECTION DEGREES | SPEED MPH |
|------------|-------------------|-----------|
| SFC | 185 | 4.0 |
| 30 | 181 | 6.0 |
| 60 | 179 | 8.0 |
| 90 | 178 | 10.0 |
| 120 | 177 | 12.0 |
| 150 | 177 | 13.0 |
| 180 | 176 | 15.0 |
| 210 | 174 | 13.0 |
| 240 | 173 | 16.0 |
| 270 | 172 | 18.0 |
| 300 | 171 | 20.0 |
| 330 | 171 | 23.0 |
| 360 | 161 | 13.5 |

| HEIGHT AGL | DIRECTION DEGREES | SPEED MPH |
|------------|-------------------|-----------|
| 390 | 159 | 15.5 |
| 420 | 157 | 18.0 |
| 450 | 156 | 20.0 |
| 480 | 155 | 22.0 |
| 510 | 133 | 14.0 |
| 540 | 137 | 15.0 |
| 570 | 141 | 16.5 |
| 600 | 144 | 18.0 |
| 630 | 147 | 19.0 |
| 660 | 149 | 21.0 |
| 690 | 137 | 15.0 |
| 720 | 145 | 16.0 |
| 750 | 151 | 18. |

STATION ALTITUDE 3997.30 FEET MSL
 26 JULY 79 0800 HRS MST
 ASCENSION NO. 258

SIGNIFICANT LEVEL DATA
 2070060258
 S M R

| GEOMETRIC ALTITUDE MSL FEET | TEMPERATURE AIR DEGREES CENTIGRADE | TEMPERATURE DEWPOINT DEGREES CENTIGRADE | REL. HUM. PERCENT |
|-----------------------------|------------------------------------|---|-------------------|
| 880.9 | 23.5 | 17.7 | 70.0 |
| 865.4 | 20.5 | 13.0 | 62.0 |
| 850.0 | 18.7 | 12.5 | 67.0 |
| 824.6 | 16.6 | 12.4 | 76.0 |
| 804.2 | 17.0 | 11.3 | 69.0 |
| 784.4 | 15.9 | 9.6 | 66.0 |
| 755.2 | 13.1 | 7.5 | 69.0 |
| 736.0 | 14.9 | 6.2 | 56.0 |
| 700.0 | 12.6 | 4.6 | 58.0 |
| 689.0 | 13.1 | 2.9 | 50.0 |
| 652.6 | 10.1 | -1.0 | 46.0 |
| 643.6 | 10.1 | -2.2 | 42.0 |
| 574.0 | 1.1 | -11.9 | 37.0 |
| 565.6 | 1.3 | -16.1 | 26.0 |
| 500.0 | -5.5 | -27.3 | 16.0 |
| 439.8 | -13.9 | -33.0 | 18.0 |
| 425.4 | -14.8 | -35.6 | 15.0 |
| 418.2 | -14.3 | -35.2 | 15.0 |
| 400.0 | -15.6 | -28.5 | 32.0 |
| 370.0 | -19.0 | -41.2 | 12.0 |
| 300.0 | -30.8 | -50.1 | 13.0 |
| 272.4 | -34.1 | | |
| 250.0 | -39.7 | | |
| 220.4 | -46.8 | | |
| 200.0 | -51.8 | | |
| 175.0 | -58.3 | | |
| 150.0 | -64.1 | | |
| 115.2 | -74.5 | | |
| 108.6 | -72.4 | | |
| 100.0 | -74.1 | | |
| 90.4 | -74.1 | | |
| 79.0 | -68.1 | | |
| 70.0 | -65.8 | | |
| 60.4 | -61.4 | | |
| 50.0 | -58.9 | | |
| 45.2 | -55.9 | | |
| 30.0 | -49.8 | | |
| 20.0 | -47.4 | | |
| 15.4 | -44.7 | | |

STATION ALTITUDE 3997.30 FEET MSL
 26 JULY 79
 ASCENSION NO. 258

UPPER AIR DATA
 2070060258
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

| GEOMETRIC ALTITUDE MSL FEET | PRESSURE MILLIBARS | AIR TEMPERATURE DEGREES | TEMPERATURE DEWPOINT DEGREES | REL. HUM. PERCENT | DENSITY GM/CUBIC METER | SPEED OF SOUND KNOTS | WIND DIRECTION DEGREES(TN) | WIND SPEED KNOTS | INDEX OF REFRACTION |
|-----------------------------|--------------------|-------------------------|------------------------------|-------------------|------------------------|----------------------|----------------------------|------------------|---------------------|
| 3997.3 | 880.9 | 23.5 | 17.7 | 70.0 | 1025.5 | 673.9 | 210.0 | 8.0 | 1.000316 |
| 4000.0 | 880.8 | 23.5 | 17.7 | 70.0 | 1025.4 | 673.9 | 209.9 | 8.0 | 1.000316 |
| 4500.0 | 865.6 | 20.5 | 13.0 | 62.1 | 1020.0 | 669.8 | 190.6 | 8.0 | 1.000293 |
| 5000.0 | 850.4 | 18.7 | 12.5 | 66.9 | 1008.4 | 667.8 | 173.6 | 8.9 | 1.000269 |
| 5500.0 | 835.5 | 17.5 | 12.4 | 72.1 | 994.8 | 666.4 | 160.8 | 10.4 | 1.000287 |
| 6000.0 | 820.7 | 16.7 | 12.2 | 74.7 | 980.1 | 665.4 | 151.5 | 12.3 | 1.000282 |
| 6500.0 | 806.3 | 17.0 | 11.4 | 69.7 | 952.0 | 665.7 | 148.4 | 12.7 | 1.000275 |
| 7000.0 | 792.0 | 16.3 | 10.2 | 67.2 | 947.4 | 664.8 | 149.5 | 11.6 | 1.000268 |
| 7500.0 | 778.0 | 15.3 | 9.1 | 66.7 | 934.3 | 663.5 | 156.3 | 9.6 | 1.000261 |
| 8000.0 | 764.1 | 14.0 | 8.2 | 68.1 | 922.1 | 661.9 | 170.6 | 7.7 | 1.000255 |
| 8500.0 | 750.5 | 13.5 | 7.3 | 65.8 | 907.2 | 661.3 | 192.0 | 5.9 | 1.000249 |
| 9000.0 | 737.1 | 14.8 | 6.3 | 56.8 | 887.4 | 662.7 | 227.6 | 5.2 | 1.000241 |
| 9500.0 | 723.9 | 14.1 | 5.7 | 56.7 | 873.6 | 661.9 | 269.0 | 6.7 | 1.000237 |
| 10000.0 | 711.0 | 13.3 | 5.1 | 57.4 | 860.6 | 660.9 | 282.5 | 7.8 | 1.000232 |
| 10500.0 | 698.3 | 12.7 | 4.3 | 56.8 | 847.2 | 660.1 | 289.7 | 8.0 | 1.000227 |
| 11000.0 | 685.8 | 12.8 | 2.6 | 49.7 | 831.9 | 660.2 | 297.4 | 7.3 | 1.000220 |
| 11500.0 | 673.4 | 11.8 | 1.3 | 48.3 | 820.1 | 658.9 | 310.4 | 7.1 | 1.000214 |
| 12000.0 | 661.3 | 10.8 | -0.0 | 47.0 | 808.4 | 657.7 | 329.6 | 8.2 | 1.000209 |
| 12500.0 | 649.4 | 10.1 | -1.4 | 44.6 | 796.1 | 656.7 | 344.3 | 10.3 | 1.000203 |
| 13000.0 | 637.5 | 9.3 | -3.0 | 41.6 | 783.8 | 655.7 | 354.2 | 13.1 | 1.000198 |
| 13500.0 | 625.8 | 7.9 | -4.6 | 40.8 | 773.6 | 654.0 | 358.1 | 15.8 | 1.000193 |
| 14000.0 | 614.2 | 6.4 | -6.2 | 40.0 | 763.5 | 652.2 | .6 | 18.4 | 1.000189 |
| 14500.0 | 602.9 | 5.0 | -7.8 | 39.1 | 753.6 | 650.4 | 2.2 | 20.9 | 1.000185 |
| 15000.0 | 591.8 | 3.5 | -9.3 | 38.3 | 743.8 | 648.6 | 4.3 | 22.1 | 1.000181 |
| 15500.0 | 580.9 | 2.0 | -10.9 | 37.5 | 734.1 | 646.8 | 7.2 | 21.8 | 1.000177 |
| 16000.0 | 570.2 | 1.2 | -13.6 | 32.0 | 723.0 | 645.7 | 12.0 | 20.4 | 1.000172 |
| 16500.0 | 559.4 | .7 | -17.0 | 25.1 | 710.9 | 645.0 | 18.1 | 19.1 | 1.000167 |
| 17000.0 | 548.8 | -.4 | -18.6 | 23.6 | 700.2 | 643.7 | 22.9 | 20.7 | 1.000163 |
| 17500.0 | 538.4 | -1.4 | -20.3 | 22.0 | 689.7 | 642.5 | 24.9 | 22.1 | 1.000160 |
| 18000.0 | 528.2 | -2.5 | -22.1 | 20.4 | 679.3 | 641.2 | 23.1 | 22.9 | 1.000157 |
| 18500.0 | 518.2 | -3.5 | -23.8 | 18.9 | 669.1 | 639.9 | 17.6 | 22.9 | 1.000154 |
| 19000.0 | 508.4 | -4.6 | -25.6 | 17.3 | 659.0 | 638.6 | 10.3 | 22.7 | 1.000151 |
| 19500.0 | 498.7 | -5.7 | -27.4 | 16.0 | 649.2 | 637.3 | 2.6 | 22.6 | 1.000148 |
| 20000.0 | 489.0 | -7.0 | -29.2 | 16.3 | 639.6 | 635.8 | 356.4 | 22.3 | 1.000146 |
| 20500.0 | 479.4 | -8.3 | -29.1 | 16.7 | 630.2 | 634.2 | 351.5 | 21.4 | 1.000143 |
| 21000.0 | 470.1 | -9.5 | -30.0 | 17.0 | 621.0 | 632.6 | 347.7 | 21.2 | 1.000141 |
| 21500.0 | 460.9 | -10.8 | -30.9 | 17.3 | 611.9 | 631.1 | 344.4 | 21.3 | 1.000139 |
| 22000.0 | 451.9 | -12.1 | -31.8 | 17.6 | 602.9 | 629.5 | 342.6 | 21.4 | 1.000137 |
| 22500.0 | 443.1 | -13.4 | -32.7 | 17.9 | 594.1 | 628.0 | 341.6 | 21.2 | 1.000135 |
| 23000.0 | 434.4 | -14.2 | -33.9 | 16.9 | 584.3 | 627.0 | 342.4 | 20.5 | 1.000132 |

STATION ALTITUDE 3997.30 FEET MSL
 26 JULY 79 0800 HRS MST
 ASCENSION NO. 258

UPPER AIR DATA
 2070060258
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

| GEOMETRIC ALTITUDE MSL FEET | PRESSURE MILLIBARS | AIR TEMPERATURE DEGREES | TEMPERATURE DEWPOINT DEGREES | REL. HUM. PERCENT | DENSITY GM/CUBIC METER | SPEED OF SOUND KNOTS | WIND DIRECTION DEGREES(TN) | WIND SPEED KNOTS | INDEX OF REFRACTION |
|-----------------------------|--------------------|-------------------------|------------------------------|-------------------|------------------------|----------------------|----------------------------|------------------|---------------------|
| 23500.0 | 425.8 | -14.8 | -35.5 | 15.1 | 573.9 | 626.3 | 342.4 | 19.0 | 1.000129 |
| 24000.0 | 417.3 | -14.4 | -34.7 | 15.8 | 561.6 | 626.8 | 341.7 | 17.0 | 1.000127 |
| 24500.0 | 409.0 | -14.9 | -31.1 | 23.5 | 551.6 | 626.1 | 340.6 | 14.9 | 1.000125 |
| 25000.0 | 400.9 | -15.5 | -28.7 | 31.2 | 541.8 | 625.5 | 339.7 | 13.0 | 1.000124 |
| 25500.0 | 392.8 | -16.4 | -30.8 | 27.4 | 532.7 | 624.4 | 340.6 | 12.2 | 1.000121 |
| 26000.0 | 385.0 | -17.3 | -33.7 | 22.2 | 523.9 | 623.3 | 344.2 | 11.9 | 1.000119 |
| 26500.0 | 377.2 | -18.2 | -37.1 | 17.0 | 515.2 | 622.2 | 350.4 | 12.2 | 1.000116 |
| 27000.0 | 369.6 | -19.1 | -41.2 | 12.0 | 506.7 | 621.1 | 358.7 | 12.5 | 1.000114 |
| 27500.0 | 362.0 | -20.2 | -42.1 | 12.1 | 498.5 | 619.6 | 7.4 | 13.0 | 1.000112 |
| 28000.0 | 354.5 | -21.4 | -42.9 | 12.2 | 490.5 | 618.2 | 10.2 | 15.6 | 1.000110 |
| 28500.0 | 347.2 | -22.6 | -43.8 | 12.3 | 482.6 | 616.7 | 11.0 | 18.2 | 1.000108 |
| 29000.0 | 340.0 | -23.8 | -44.7 | 12.4 | 474.9 | 615.3 | 8.2 | 20.9 | 1.000106 |
| 29500.0 | 333.0 | -24.9 | -45.6 | 12.5 | 467.3 | 613.8 | 5.2 | 21.8 | 1.000105 |
| 30000.0 | 326.1 | -26.1 | -46.5 | 12.6 | 459.8 | 612.4 | 1.0 | 20.4 | 1.000103 |
| 30500.0 | 319.4 | -27.3 | -47.4 | 12.7 | 452.5 | 610.9 | 357.3 | 18.2 | 1.000101 |
| 31000.0 | 312.8 | -28.5 | -48.3 | 12.8 | 445.2 | 609.4 | 353.6 | 15.4 | 1.000100 |
| 31500.0 | 306.3 | -29.6 | -49.2 | 12.9 | 438.1 | 608.0 | 352.2 | 12.6 | 1.000098 |
| 32000.0 | 300.0 | -30.8 | -50.1 | 13.0** | 431.2 | 606.5 | 352.1 | 9.9 | 1.000096 |
| 32500.0 | 293.6 | -31.5 | -52.8 | 10.1** | 423.3 | 605.6 | 352.4 | 9.4 | 1.000095 |
| 33000.0 | 287.3 | -32.3 | -56.1 | 7.2** | 415.5 | 604.6 | 352.9 | 9.6 | 1.000093 |
| 33500.0 | 281.2 | -33.0 | -60.7 | 4.3** | 407.9 | 603.7 | 351.7 | 10.5 | 1.000091 |
| 34000.0 | 275.2 | -33.7 | -69.4 | 1.4** | 400.5 | 602.8 | 350.6 | 11.3 | 1.000089 |
| 34500.0 | 269.3 | -34.8 | | | 393.7 | 601.4 | 349.6 | 10.8 | 1.000088 |
| 35000.0 | 263.4 | -36.3 | | | 387.5 | 599.6 | 349.2 | 11.0 | 1.000086 |
| 35500.0 | 257.7 | -37.7 | | | 381.4 | 597.8 | 349.5 | 11.9 | 1.000085 |
| 36000.0 | 252.1 | -39.1 | | | 375.4 | 595.9 | 346.0 | 13.3 | 1.000084 |
| 36500.0 | 246.6 | -40.5 | | | 369.2 | 594.2 | 342.2 | 14.8 | 1.000082 |
| 37000.0 | 241.1 | -41.7 | | | 362.9 | 592.6 | 336.4 | 14.4 | 1.000081 |
| 37500.0 | 235.7 | -43.0 | | | 356.8 | 591.0 | 329.5 | 13.8 | 1.000079 |
| 38000.0 | 230.5 | -44.3 | | | 350.8 | 589.4 | 327.2 | 14.4 | 1.000078 |
| 38500.0 | 225.3 | -45.6 | | | 344.9 | 587.7 | 325.4 | 15.0 | 1.000077 |
| 39000.0 | 220.3 | -46.8 | | | 339.1 | 586.1 | 327.7 | 17.0 | 1.000076 |
| 39500.0 | 215.3 | -48.0 | | | 333.1 | 584.5 | 329.6 | 19.0 | 1.000074 |
| 40000.0 | 210.3 | -49.2 | | | 327.2 | 583.0 | 329.5 | 18.9 | 1.000073 |
| 40500.0 | 205.4 | -50.4 | | | 321.4 | 581.4 | 329.3 | 18.7 | 1.000072 |
| 41000.0 | 200.8 | -51.6 | | | 315.7 | 579.9 | 327.5 | 18.3 | 1.000070 |
| 41500.0 | 196.1 | -52.8 | | | 310.0 | 578.4 | 325.8 | 17.9 | 1.000069 |
| 42000.0 | 191.5 | -53.9 | | | 304.3 | 576.8 | 325.6 | 17.9 | 1.000068 |
| 42500.0 | 187.0 | -55.1 | | | 298.8 | 575.3 | 326.8 | 17.8 | 1.000067 |
| 43000.0 | 182.6 | -56.2 | | | 293.3 | 573.8 | 331.5 | 17.3 | 1.000065 |

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

STATION ALTITUDE 3997.30 FEET MSL
 26 JULY 79 0800 HRS MST
 ASCENSION NO. 258

UPPER AIR DATA
 2070060258
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

| GEOMETRIC ALTITUDE MSL FEET | PRESSURE MILLIBARS | TEMPERATURE AIR DEGREES CENTIGRADE | REL. HUM. PERCENT | DENSITY GM/CUBIC METER | SPEED OF SOUND KNOTS | WIND DIRECTION DEGREES (TN) | WIND SPEED KNOTS | INDEX OF REFRACTION |
|-----------------------------|--------------------|------------------------------------|-------------------|------------------------|----------------------|-----------------------------|------------------|---------------------|
| 43500.0 | 178.4 | -57.4 | | 287.9 | 572.3 | 336.6 | 16.8 | 1.000064 |
| 44000.0 | 174.1 | -58.5 | | 282.6 | 570.8 | 341.9 | 16.3 | 1.000063 |
| 44500.0 | 169.9 | -59.4 | | 277.0 | 569.6 | 343.9 | 16.1 | 1.000062 |
| 45000.0 | 165.8 | -60.3 | | 271.5 | 568.3 | 343.2 | 16.2 | 1.000060 |
| 45500.0 | 161.8 | -61.2 | | 266.0 | 567.1 | 342.1 | 15.8 | 1.000059 |
| 46000.0 | 157.9 | -62.2 | | 260.8 | 565.9 | 340.8 | 15.2 | 1.000058 |
| 46500.0 | 154.1 | -63.1 | | 255.6 | 564.6 | 341.0 | 13.4 | 1.000057 |
| 47000.0 | 150.4 | -64.0 | | 250.5 | 563.4 | 342.2 | 11.1 | 1.000056 |
| 47500.0 | 146.6 | -65.0 | | 245.4 | 562.1 | 339.8 | 8.2 | 1.000055 |
| 48000.0 | 143.0 | -66.0 | | 240.4 | 560.7 | 328.7 | 5.2 | 1.000054 |
| 48500.0 | 139.4 | -67.0 | | 235.5 | 559.4 | 305.1 | 3.9 | 1.000052 |
| 49000.0 | 135.9 | -68.0 | | 230.7 | 558.0 | 292.9 | 5.2 | 1.000051 |
| 49500.0 | 132.5 | -69.0 | | 226.1 | 556.6 | 287.5 | 6.7 | 1.000050 |
| 50000.0 | 129.2 | -70.0 | | 221.5 | 555.3 | 300.3 | 8.5 | 1.000049 |
| 50500.0 | 125.9 | -71.0 | | 217.0 | 553.9 | 308.3 | 10.6 | 1.000048 |
| 51000.0 | 122.8 | -72.0 | | 212.6 | 552.5 | 321.7 | 10.3 | 1.000047 |
| 51500.0 | 119.7 | -73.0 | | 208.3 | 551.2 | 338.7 | 10.1 | 1.000046 |
| 52000.0 | 116.7 | -74.0 | | 204.1 | 549.8 | 354.4 | 10.7 | 1.000045 |
| 52500.0 | 113.7 | -74.0 | | 199.0 | 549.7 | 7.0 | 11.7 | 1.000044 |
| 53000.0 | 110.8 | -73.1 | | 193.0 | 551.0 | 15.7 | 13.0 | 1.000043 |
| 53500.0 | 106.0 | -72.5 | | 187.5 | 551.8 | 13.4 | 13.2 | 1.000042 |
| 54000.0 | 105.2 | -73.0 | | 183.2 | 551.1 | 11.2 | 13.4 | 1.000041 |
| 54500.0 | 102.5 | -73.6 | | 179.0 | 550.4 | 21.6 | 11.4 | 1.000040 |
| 55000.0 | 99.9 | -74.1 | | 174.9 | 549.6 | 40.6 | 9.8 | 1.000039 |
| 55500.0 | 97.4 | -74.1 | | 170.4 | 549.6 | 65.8 | 9.8 | 1.000038 |
| 56000.0 | 94.9 | -74.1 | | 166.0 | 549.6 | 86.4 | 12.0 | 1.000037 |
| 56500.0 | 92.4 | -74.1 | | 161.8 | 549.6 | 101.2 | 15.2 | 1.000036 |
| 57000.0 | 90.1 | -73.9 | | 157.5 | 549.9 | 97.3 | 15.3 | 1.000035 |
| 57500.0 | 87.8 | -72.8 | | 152.6 | 551.4 | 93.5 | 15.4 | 1.000034 |
| 58000.0 | 85.6 | -71.7 | | 147.9 | 553.0 | 93.4 | 15.3 | 1.000033 |
| 58500.0 | 83.4 | -70.5 | | 143.4 | 554.6 | 94.9 | 15.1 | 1.000032 |
| 59000.0 | 81.3 | -69.4 | | 139.0 | 556.1 | 96.0 | 14.4 | 1.000031 |
| 59500.0 | 79.2 | -68.2 | | 134.7 | 557.7 | 95.7 | 13.0 | 1.000030 |
| 60000.0 | 77.3 | -67.7 | | 131.0 | 558.4 | 95.5 | 11.5 | 1.000029 |
| 60500.0 | 75.4 | -67.2 | | 127.5 | 559.1 | 83.8 | 12.7 | 1.000028 |
| 61000.0 | 73.5 | -66.7 | | 124.0 | 559.7 | 73.9 | 14.6 | 1.000027 |
| 61500.0 | 71.7 | -66.3 | | 120.7 | 560.4 | 71.6 | 16.3 | 1.000026 |
| 62000.0 | 69.9 | -65.8 | | 117.4 | 561.0 | 74.1 | 17.7 | 1.000025 |
| 62500.0 | 68.2 | -65.0 | | 114.2 | 562.0 | 76.1 | 18.9 | 1.000024 |
| 63000.0 | 66.5 | -64.3 | | 111.0 | 563.0 | 77.1 | 19.4 | 1.000023 |

STATION ALTITUDE 3997.30 FEET MSL
 26 JULY 79 0800 HRS MST
 ASCENSION NO. 258

UPPER AIR DATA
 2070060256
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

| GEOMETRIC ALTITUDE MSL FEET | PRESSURE MILLIBARS | TEMPERATURE AIR DEGREES CENTIGRADE | REL. HUM. PERCENT | DENSITY G/M ³ CUBIC METER | SPEED OF SOUND KNOTS | WIND DIRECTION DEGREES (TN) | WIND SPEED KNOTS | INDEX OF REFRACTION |
|-----------------------------|--------------------|------------------------------------|-------------------|--------------------------------------|----------------------|-----------------------------|------------------|---------------------|
| 63500.0 | 64.9 | -63.6 | | 107.9 | 564.0 | 78.0 | 19.9 | 1.000024 |
| 64000.0 | 63.3 | -62.8 | | 104.9 | 565.0 | 60.3 | 20.9 | 1.000023 |
| 64500.0 | 61.8 | -62.1 | | 102.0 | 566.0 | 83.1 | 22.1 | 1.000023 |
| 65000.0 | 60.3 | -61.4 | | 99.2 | 566.9 | 85.7 | 23.2 | 1.000022 |
| 65500.0 | 58.8 | -61.1 | | 96.7 | 567.4 | 90.4 | 22.0 | 1.000022 |
| 66000.0 | 57.4 | -60.7 | | 94.2 | 567.8 | 95.5 | 21.0 | 1.000021 |
| 66500.0 | 56.1 | -60.4 | | 91.8 | 568.2 | 97.8 | 20.3 | 1.000020 |
| 67000.0 | 54.7 | -60.1 | | 89.5 | 568.6 | 95.7 | 19.8 | 1.000020 |
| 67500.0 | 53.4 | -59.8 | | 87.2 | 569.1 | 93.5 | 19.4 | 1.000019 |
| 68000.0 | 52.1 | -59.5 | | 85.0 | 569.5 | 93.5 | 19.8 | 1.000019 |
| 68500.0 | 50.9 | -59.1 | | 82.8 | 569.9 | 94.1 | 20.4 | 1.000018 |
| 69000.0 | 49.7 | -58.7 | | 80.7 | 570.5 | 94.6 | 21.0 | 1.000018 |
| 69500.0 | 48.5 | -58.0 | | 78.5 | 571.5 | 95.8 | 21.5 | 1.000017 |
| 70000.0 | 47.3 | -57.3 | | 76.4 | 572.4 | 96.7 | 21.9 | 1.000017 |
| 70500.0 | 46.2 | -56.6 | | 74.3 | 573.3 | 94.4 | 22.4 | 1.000017 |
| 71000.0 | 45.1 | -55.9 | | 72.4 | 574.2 | 89.5 | 22.9 | 1.000016 |
| 71500.0 | 44.1 | -55.5 | | 70.6 | 574.7 | 84.8 | 23.6 | 1.000016 |
| 72000.0 | 43.1 | -55.2 | | 68.8 | 575.2 | 84.1 | 25.2 | 1.000015 |
| 72500.0 | 42.1 | -54.8 | | 67.1 | 575.8 | 84.0 | 27.0 | 1.000015 |
| 73000.0 | 41.1 | -54.5 | | 65.5 | 576.1 | 84.3 | 28.7 | 1.000015 |
| 73500.0 | 40.1 | -54.1 | | 63.8 | 576.5 | 86.6 | 30.4 | 1.000014 |
| 74000.0 | 39.2 | -53.8 | | 62.3 | 577.0 | 88.6 | 32.1 | 1.000014 |
| 74500.0 | 38.3 | -53.4 | | 60.7 | 577.5 | 89.9 | 33.7 | 1.000014 |
| 75000.0 | 37.4 | -53.1 | | 59.2 | 577.9 | 90.3 | 35.1 | 1.000013 |
| 75500.0 | 36.5 | -52.7 | | 57.8 | 578.4 | 90.7 | 36.5 | 1.000013 |
| 76000.0 | 35.7 | -52.4 | | 56.3 | 578.8 | 91.2 | 38.1 | 1.000013 |
| 76500.0 | 34.9 | -52.0 | | 54.9 | 579.3 | 91.6 | 39.8 | 1.000012 |
| 77000.0 | 34.1 | -51.7 | | 53.6 | 579.8 | 92.1 | 41.5 | 1.000012 |
| 77500.0 | 33.3 | -51.3 | | 52.3 | 580.2 | 92.8 | 41.6 | 1.000012 |
| 78000.0 | 32.5 | -51.0 | | 51.0 | 580.7 | 93.7 | 41.2 | 1.000011 |
| 78500.0 | 31.8 | -50.6 | | 49.7 | 581.1 | 94.6 | 40.8 | 1.000011 |
| 79000.0 | 31.0 | -50.3 | | 48.5 | 581.6 | 95.3 | 38.6 | 1.000011 |
| 79500.0 | 30.3 | -49.9 | | 47.3 | 582.0 | 96.2 | 36.3 | 1.000011 |
| 80000.0 | 29.6 | -49.7 | | 46.2 | 582.3 | 96.8 | 34.3 | 1.000010 |
| 80500.0 | 28.9 | -49.6 | | 45.1 | 582.5 | 95.9 | 33.8 | 1.000010 |
| 81000.0 | 28.3 | -49.4 | | 44.0 | 582.7 | 95.0 | 33.3 | 1.000010 |
| 81500.0 | 27.6 | -49.3 | | 43.0 | 582.9 | 94.0 | 33.1 | 1.000010 |
| 82000.0 | 27.0 | -49.2 | | 42.0 | 583.0 | 92.7 | 33.7 | 1.000009 |
| 82500.0 | 26.4 | -49.0 | | 41.0 | 583.2 | 91.4 | 34.3 | 1.000009 |
| 83000.0 | 25.8 | -48.9 | | 40.1 | 583.4 | 90.7 | 34.7 | 1.000009 |

STATION ALTITUDE 3997.30 FEET MSL
 26 JULY 79 0800 HRS MST
 ASCENSION NO. 258

UPPER AIR DATA
 2070060258
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

| GEOMETRIC ALTITUDE MSL FEET | PRESSURE MILLIBARS | TEMPERATURE AIR DEGREES | DEWPOINT DEGREES | REL. HUM. PERCENT | DENSITY GM/CUBIC METER | SPEED OF SOUND KNOTS | WIND DIRECTION DEGREES(TN) | WIND SPEED KNOTS | INDEX OF REFRACTION |
|-----------------------------|--------------------|-------------------------|------------------|-------------------|------------------------|----------------------|----------------------------|------------------|---------------------|
| 83500.0 | 25.2 | -48.8 | | | 39.1 | 583.6 | 91.4 | 34.1 | 1.000009 |
| 84000.0 | 24.6 | -48.6 | | | 38.2 | 583.7 | 92.2 | 33.6 | 1.000009 |
| 84500.0 | 24.1 | -48.5 | | | 37.3 | 583.9 | 92.7 | 33.1 | 1.000008 |
| 85000.0 | 23.5 | -48.4 | | | 36.5 | 584.1 | 91.9 | 32.9 | 1.000008 |
| 85500.0 | 23.0 | -48.2 | | | 35.6 | 584.3 | 91.1 | 32.7 | 1.000008 |
| 86000.0 | 22.5 | -48.1 | | | 34.8 | 584.4 | 90.3 | 32.9 | 1.000008 |
| 86500.0 | 22.0 | -48.0 | | | 34.0 | 584.6 | 89.4 | 35.1 | 1.000008 |
| 87000.0 | 21.5 | -47.8 | | | 33.2 | 584.8 | 88.6 | 37.3 | 1.000007 |
| 87500.0 | 21.0 | -47.7 | | | 32.4 | 585.0 | 87.7 | 39.0 | 1.000007 |
| 88000.0 | 20.5 | -47.5 | | | 31.7 | 585.2 | 86.3 | 38.0 | 1.000007 |
| 88500.0 | 20.0 | -47.4 | | | 30.9 | 585.3 | 84.8 | 37.0 | 1.000007 |
| 89000.0 | 19.6 | -47.2 | | | 30.2 | 585.6 | 83.6 | 36.0 | 1.000007 |
| 89500.0 | 19.1 | -46.9 | | | 29.5 | 585.9 | 84.5 | 34.8 | 1.000007 |
| 90000.0 | 18.7 | -46.7 | | | 28.8 | 586.2 | 85.5 | 33.6 | 1.000006 |
| 90500.0 | 18.3 | -46.5 | | | 28.1 | 586.5 | 87.0 | 32.8 | 1.000006 |
| 91000.0 | 17.9 | -46.2 | | | 27.5 | 586.8 | 92.1 | 37.4 | 1.000006 |
| 91500.0 | 17.5 | -46.0 | | | 26.8 | 587.1 | 96.2 | 42.3 | 1.000006 |
| 92000.0 | 17.1 | -45.8 | | | 26.2 | 587.4 | | | 1.000006 |
| 92500.0 | 16.7 | -45.5 | | | 25.6 | 587.7 | | | 1.000006 |
| 93000.0 | 16.3 | -45.3 | | | 25.0 | 588.0 | | | 1.000006 |
| 93500.0 | 16.0 | -45.1 | | | 24.4 | 588.4 | | | 1.000005 |
| 94000.0 | 15.6 | -44.8 | | | 23.8 | 588.7 | | | 1.000005 |

STATION ALTITUDE 3997.30 FEET MSL
 26 JULY 79 0800 HRS MST
 ASCENSION NO. 258

MRN SIGNIFICANT LEVEL DATA
 2070060258
 S M R

GEODEIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

| GEOPOTENTIAL ALTITUDE DECAMETERS | DIRECTION DEG (TN) | SPEED MPS | WIND DATA N-S MPS | E-W MPS | DEW PT DEP DEG C | TEMPERATURE AIR DEG C | PRESSURE MILLIBARS |
|--|-----------------------|--------------|-------------------------|------------|---------------------|-----------------------------|-----------------------|
| 2860. | 9999.** | 9999.** | -9999.** | -9999.** | 99 | -44.7 | 1.540+1 |
| 2686. | 85. | 19. | -2. | -19. | 99 | -47.4 | 2.000+1 |
| 2419. | 97. | 18. | 2. | -18. | 99 | -49.8 | 3.000+1 |
| 2155. | 90. | 12. | -0. | -12. | 99 | -55.9 | 4.520+1 |
| 2091. | 95. | 11. | 1. | -11. | 99 | -58.9 | 5.000+1 |
| 1973. | 85. | 12. | -1. | -12. | 99 | -61.4 | 6.040+1 |
| 1882. | 74. | 9. | -2. | -9. | 99 | -65.8 | 7.000+1 |
| 1809. | 96. | 7. | 1. | -7. | 99 | -68.1 | 7.900+1 |
| 1730. | 98. | 8. | 1. | -8. | 99 | -74.1 | 9.040+1 |
| 1671. | 40. | 5. | -4. | -3. | 99 | -74.1 | 1.000+2 |

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

STATION ALTITUDE 3997.30 FEET MSL
 26 JULY 79
 ASCENSION NO. 258

MANDATORY LEVELS
 2070060258
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

| PRESSURE GEOPOTENTIAL | | TEMPERATURE | | REL. HUM. | WIND DATA | |
|-----------------------|--------|-------------|---------------------|-----------|-----------------------|-------------|
| MILLIBARS | FEET | AIR DEGREES | DEWPOINT CENTIGRADE | PERCENT | DIRECTION DEGREES(TN) | SPEED KNOTS |
| 850.0 | 5010. | 18.7 | 12.5 | 67. | 173.5 | 9.0 |
| 800.0 | 6713. | 16.8 | 10.9 | 68. | 148.8 | 12.2 |
| 750.0 | 8510. | 13.6 | 7.3 | 66. | 192.7 | 5.9 |
| 700.0 | 10422. | 12.6 | 4.6 | 58. | 288.7 | 7.9 |
| 650.0 | 12459. | 10.1 | -1.3 | 45. | 343.5 | 10.2 |
| 600.0 | 14625. | 4.6 | -8.2 | 39. | 2.6 | 21.6 |
| 550.0 | 16928. | -2 | -18.5 | 24. | 22.3 | 20.5 |
| 500.0 | 19405. | -5.5 | -27.3 | 16. | 4.0 | 22.6 |
| 450.0 | 22082. | -12.4 | -32.0 | 18. | 342.4 | 21.4 |
| 400.0 | 25012. | -15.6 | -28.5 | 32. | 339.7 | 13.0 |
| 350.0 | 28278. | -22.1 | -43.5 | 12. | 11.5 | 17.3 |
| 300.0 | 31933. | -30.8 | -50.1 | 13. | 352.1 | 10.0 |
| 250.0 | 36114. | -39.7 | | | 344.6 | 13.8 |
| 200.0 | 40987. | -51.8 | | | 327.2 | 18.2 |
| 175.0 | 43786. | -58.3 | | | 340.6 | 16.4 |
| 150.0 | 46926. | -64.1 | | | 342.2 | 10.9 |
| 125.0 | 50525. | -71.3 | | | 310.7 | 11.0 |
| 100.0 | 54814. | -74.1 | | | 38.8 | 9.8 |
| 80.0 | 59114. | -68.7 | | | 95.8 | 13.6 |
| 70.0 | 61758. | -65.8 | | | 73.8 | 17.5 |
| 60.0 | 64864. | -61.3 | | | 86.3 | 23.0 |
| 50.0 | 68597. | -58.9 | | | 94.5 | 20.8 |
| 40.0 | 73252. | -54.1 | | | 86.7 | 30.4 |
| 30.0 | 79367. | -49.8 | | | 96.5 | 35.6 |
| 25.0 | 83290. | -48.7 | | | 91.6 | 34.0 |
| 20.0 | 88117. | -47.4 | | | 84.9 | 37.0 |

STATION ALTITUDE 3997.30 FEET MSL
 26 JULY 79 0800 HRS MST
 ASCENSION NO. 258

MRN MANDATORY LEVELS
 2070060258
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

| GEOPOTENTIAL ALTITUDE DECAMETERS | DIRECTION DEG (TN) | SPEED MPS | WIND DATA | | E-W MPS | DEW PT DEP DEG C | TEMPERATURE | | PRESSURE MILLIBARS |
|--|-----------------------|--------------|------------|-----|------------|---------------------|--------------|---------|-----------------------|
| | | | N-S MPS | DIR | | | AIR DEG C | | |
| 2686. | 85. | 19. | -2. | | -19. | 99 | -47.4 | 2.000+1 | |
| 2539. | 92. | 17. | 0. | | -17. | 99 | -48.7 | 2.500+1 | |
| 2419. | 96. | 18. | 2. | | -18. | 99 | -49.8 | 3.000+1 | |
| 2233. | 87. | 16. | -1. | | -16. | 99 | -54.1 | 4.000+1 | |
| 2091. | 95. | 11. | 1. | | -11. | 99 | -58.9 | 5.000+1 | |
| 1977. | 86. | 12. | -1. | | -12. | 99 | -61.3 | 6.000+1 | |
| 1882. | 74. | 9. | -3. | | -9. | 99 | -65.8 | 7.000+1 | |
| 1802. | 96. | 7. | 1. | | -7. | 99 | -68.7 | 8.000+1 | |
| 1671. | 39. | 5. | -3. | | -3. | 99 | -74.1 | 1.000+2 | |
| 1540. | 311. | 6. | -4. | | 4. | 99 | -71.3 | 1.250+2 | |
| 1430. | 342. | 6. | -5. | | 2. | 99 | -64.1 | 1.500+2 | |
| 1335. | 341. | 8. | -8. | | 3. | 99 | -58.3 | 1.750+2 | |
| 1249. | 327. | 9. | -8. | | 5. | 99 | -51.8 | 2.000+2 | |
| 1101. | 345. | 7. | -7. | | 2. | 99 | -39.7 | 2.500+2 | |
| 973. | 352. | 5. | -5. | | 1. | 99 | -30.8 | 3.000+2 | |
| 862. | 12. | 9. | -9. | | -2. | 21 | -22.1 | 3.500+2 | |
| 762. | 340. | 7. | -6. | | 2. | 13 | -15.6 | 4.000+2 | |
| 673. | 342. | 11. | -10. | | 3. | 20 | -12.4 | 4.500+2 | |
| 591. | 4. | 12. | -12. | | -1. | 22 | -5.5 | 5.000+2 | |
| 516. | 22. | 11. | -10. | | -4. | 18 | -2 | 5.500+2 | |
| 446. | 3. | 11. | -11. | | -1. | 13 | 4.6 | 6.000+2 | |
| 380. | 344. | 5. | -5. | | 1. | 11 | 10.1 | 6.500+2 | |
| 318. | 289. | 4. | -1. | | 4. | 06 | 12.6 | 7.000+2 | |
| 259. | 193. | 3. | 3. | | 1. | 06 | 13.6 | 7.500+2 | |
| 205. | 149. | 6. | 5. | | -3. | 06 | 16.8 | 8.000+2 | |
| 153. | 173. | 5. | 5. | | -1. | 06 | 18.7 | 8.500+2 | |