19304D MLRS, MISSILE NUMBER V38-002, ROUND NUMBER V-163/18-2, 1-ETCU.
METEOROLOGICAL DATA REPORT

193040 MLRS
Missile Number V-38-002
Round Number V-183/IW-2
13 Aug 1981

by

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Program Support Coordinator
Phone Number (505) 679-9568
AVN Number 349-9568

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM
UNITED STATES ARMY ELECTRONICS COMMAND
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**Abstract**

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<td>11. WSO Mandatory Levels at 0737 MDT</td>
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<td>12. WSO Significant Level Data at 0900 MDT</td>
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<td>14. WSO Mandatory Levels at 0900 MDT</td>
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19304D MLRS, Missile Number V-38-002, Round Number V-183/IW-2, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 0900 MDT, 13 Aug 1981. 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 (°C), relative humidity, dew point (°C), density (gm/m³), wind speed and direction, 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 Pilot-Balloon observations at:

      SITE AND ALTITUDE

      LC-33  1550 Metres
      NICK  2000 Meters

      (2) Air structure data (rawinsonde) were collected at the following Met Sites:

      SITE AND TIME

      WSD  0600 MDT
      WSD  0737 MDT
      WSD  0900 MDT
# Project Surface Observation

## Table 1

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<th>DEW POINT OF °C</th>
<th>RELATIVE HUMIDITY %</th>
<th>DENSITY gm/m³</th>
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## Obstructions to Visibility

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

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<th>SPEED KTS</th>
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<th>SPEED KTS</th>
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### TABLE 3  LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

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<td>T  -10</td>
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</tbody>
</table>
### TABLE 4

**T-1 Time Pilot-Balloon Tracked Pilot-Balloon Observations**

**SITE:** LC-33  
**TIME:** 0900 MDT  
**WSMT COORDINATES:**  
\( x = 484,837.34 \)  
\( y = 184,124.44 \)  
\( h = 3,975.57 \)

**SITE:** NICK  
**TIME:** 0900 MDT  
**WSMT COORDINATES:**  
\( x = 470,734.56 \)  
\( y = 255,775.64 \)  
\( h = 4,126.57 \)

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<th>LAYER MIDPOINT METERS AGL</th>
<th>DIRECTION DEGREES</th>
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Data obtained from Double Theodolite Tracked Pilot-Balloon Observations.

Data obtained from Single Theodolite Tracked Pilot-Balloon Observations.
### Aim and T-Time Computer Met Messages

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<th>Pressure (mb)</th>
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<th>Minimum Temperature</th>
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