

## NCAR ACOM MANITOU 2016 Campaign Data

**Contact/Author:** John Ortega [john.ortega@colorado.edu](mailto:john.ortega@colorado.edu)

**Instrument:** Sonic Anemometer

**DOI:** <https://doi.org/10.26023/M5DB-RX05-SG05>

### General Description:

This dataset contains the MANITOU2016 campaign data collected by NSF NCAR Atmospheric Chemistry Observations & Modeling (ACOM) for the Manitou Experimental Forest Observatory (MEFO) between 2008 and 2016. The data are from the Manitou Experimental Forest Observatory (MEFO) that was established in 2008, in an area representative of a middle-elevation (~2000-2500 m ASL). It is a semi-arid, ponderosa pine ecosystem that is common throughout the Rocky Mountain West. The station location is at 39.1006 degrees North, 105.0942 degrees West and at an elevation of 7700 feet ASL (2347 m). The chemistry tower at MEFO is a walk up type with height of 28m and there were 4 mobile laboratories with 160 Ft<sup>2</sup> (14.9m<sup>2</sup>) space.

### Data Column Parameter Information:

1. Date and time of measurement (month/day/year, HH:MM:SS)
2. Fractional second since it's 10 Hz data. In terms of what that represents, assume it represents the average or midpoint of the measurement period.
3. Wind speed in m/s along the axis of the sonic anemometer orientation (see .prm file for information; Sonic oriented at 216 degrees).
4. Wind speed in m/s perpendicular to the axis of the sonic anemometer orientation (see .prm file for information; Sonic oriented at 216 degrees).
5. Vertical wind speed (m/s)
6. Air temperature (degrees C)
7. Speed of sound (m/s)
8. Columns 8,9,10 are all N/A or NaN.