

**Combo Probe (Ultrasonic Anemometer / Hot Film Anemometer)
data provided by the University of Notre Dame measured at the
Combo Probe Sage Brush site**

CP-SB

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1.0 Data Set Overview

1.1 Time period covered by the data

Data for 2013 May 1, 2, 4, 7, 8, 9, 11, 12, 14, 14, 15, 16, 18, 19, 21, 22, 23, 24, 25, 26, 28, 29

1.2 Physical location (latitude, longitude, elevation)

40.051050, -113.05085, 1328.9200000000001

1.3 Instrument type

Combo Probe

1.4 Data provider

University of Notre Dame

1.5 Web address references

<http://www3.nd.edu/~dynamics/materhorn/>

https://www.eol.ucar.edu/field_projects/materhorn-x

2.0 Instrument Description

Combo Probes were mounted at 3m and 8m above ground level during the Spring 2013 field campaign. The combo probe setup is capable of rotating the hotfilm probes over a 120 degree range. In total four Combo Probes were mounted, two at 3m, and two at 8m. Two were used at each level in order for the hot films to be oriented in opposite directions, see the instrument photograph provided below.



2.1 Instrument website

2.2 Table of specifications

Accuracy	Range	Frequency	Resolution
Contact P.I. regarding this information	Contact P.I. regarding this information	Contact P.I. regarding this information	Contact P.I. regarding this information

3.0 Data Collection and Processing

3.1 Description of data collection

3.2 Description of derived parameters and processing techniques used

3.3 Description of quality assurance and control procedures

This dataset was not subject to any quality control or processing it has been provided in its original form.

3.4 Data intercomparisons

4.0 Data Format

4.1 Data file structure

4.2 File naming convention

4.3 Data format

4.4 Data layout

4.5 List of parameters with units, sampling intervals, frequency, range

4.6 Data version number and date

raw, v1.0, October 2016

4.7 Description of flags, codes used in the data, and definitions

4.8 Data sample

Not suitable for display

5.0 Data Remarks

5.1 PI's assessment of the data

This is a proprietary dataset, which requires interaction with the P.I. responsible for this dataset. Please direct any questions to the dataset P.I.

5.2 Missing data periods

5.3 Software compatibility

6.0 References

- [1] Fernando, H. J. S., E. R. Pardyjak, S. Di Sabatino, F. K. Chow, S. F. J. DeWekker, S. W. Hoch, J. Hacker, J. C. Pace, T. Pratt, Z. Pu, J. W. Steenburgh, C. D. Whiteman, Y. Wang, D. Zajic, B. Balsley, R. Dimitrova, G. D. Emmitt, C. W. Higgins, J. C. R. Hunt, J. G. Knievel, D. Lawrence, Y. Liu, D. F. Nadeau, E. Kit, B. W. Blomquist, P. Conry, R. S. Coppersmith, E. Creegan, M. Felton, A. Grachev, N. Gunawardena, C. Hang, C. M. Hocut, G. Huynh, M. E. Jeglum, D. Jensen, V. Kulandaivelu, M. Lehner, L. S. Leo, D. Liberzon, J. D. Massey, K. McEnerney, S. Pal, T. Price, M. Sghiatti, Z. Silver, M. Thompson, H. Zhang, T. Zsedrovits, 2015: The MATERHORN – Unraveling the Intricacies of Mountain Weather, BAMS, doi: <http://dx.doi.org/10.1175/BAMS-D-13-00131.1>.