

**Ceilometer data from the University of Utah measured on the East
Slope of Granite**
CEI-UOU-ES

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1.0 Data Set Overview

1.1 Time period covered by the data

1.2 Physical location (latitude, longitude, elevation)

40.095388, -113.241347, 1347

1.3 Instrument type

Ceilometer

1.4 Data provider

University of Utah

1.5 Web address references

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

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

2.0 Instrument Description

Vaisala CL31 ceilometer



* This is a photo of the NWG Ceilometer, it is used here to depict a CL31

2.1 Instrument website

http://www.vaisala.com/en/products/ceilometers/Pages/CL31.aspx?utm_medium=alias&utm_content=CL31

2.2 Table of specifications

Accuracy	Range	Frequency	Resolution
greater of $\pm 1\%$ or ± 5 m	0...25,000 ft ((0...7.6 km)	programmable, 2...120 s	5 m /10 ft (units selectable)

3.0 Data Collection and Processing

3.1 Description of data collection

3.2 Description of derived parameters and processing techniques used

Original data files are provided.

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 to display

5.0 Data Remarks

5.1 PI's assessment of the data

5.2 Missing data periods

5.3 Software compatibility

Vaisala CL-VIEW Graphical User Interface for Ceilometers -
<http://www.vaisala.com/en/products/ceilometers/Pages/CL-VIEW.aspx>

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>.
- [2] <http://www.vaisala.com/en/products/ceilometers/Pages/CL-VIEW.aspx>
- [3] http://www.vaisala.com/en/products/ceilometers/Pages/CL31.aspx?utm_medium=alias&utm_content=CL31