

Ceilometer data from Dugway Proving Ground measured at the Tower Grid site

CEI-TG

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1.0 Data Set Overview

1.1 Time period covered by the data

1.2 Physical location (latitude, longitude, elevation)

40.103450, -112.98039, 1325

1.3 Instrument type

Ceilometer

1.4 Data provider

Dugway Proving Ground

1.5 Web address references

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

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

2.0 Instrument Description

Ceilometer



2.1 Instrument website

<http://home.chpc.utah.edu/~jyoung/ceilview/about/ct12k.pdf>

2.2 Table of specifications

| Accuracy | Range | Frequency | Resolution |
|----------|-----------------|--|------------|
| - | 0 - 12,650 feet | 12,000 ft Acquisition Time: 30 s maximum | 50 feet |

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



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://home.chpc.utah.edu/~jyoung/ceilview/about/ct12k.pdf>