HOBO Weather Station with 5 minute averages during the entire month of September and October 2012

HOBOS

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1.0 Data Set Overview

1.1 Time period covered by the data

Approximately September and October 2012. For specific times please refer to individual file names.

1.2 Physical location (latitude, longitude, elevation)

See separate file (HOBO_coordinates.txt) with coordinates, 0, 0

1.3 Instrument type

MesoNET

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

HOBO weather stations sited at various locations

2.1 Instrument website

http://www.onsetcomp.com/products/data-loggers/weather-stations

2.2 Table of specifications

Accuracy	Range	Frequency	Resolution
			Temporal resolution of 5 minutes

3.0 Data Collection and Processing

3.1 Description of data collection

Continuous data collection was conducted during the entire fall field campaign, with 5 minute averages.

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

TXT files for each 5 minute averaged values. The text files are in ASCII, CSV format.

4.2 File naming convention

dataProvider_instrument_instrumentType_startDateAndTime_endDateAndTime.extension

4.3 Data format

comma delimited ASCII

4.4 Data layout

Each file has two header lines each the first provides the station number and the second line provides the column headers for all subsequent rows of data contained within the file.

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

"#","Date Time, GMT+00:00","Temp, °F","RH, %","Coupler Detached","Coupler Attached","Stopped","End Of File"

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

```
"Plot Title: 9810707"
"#","Date     Time,     GMT+00:00","Temp,     °F","RH,     %","Coupler
Detached","Coupler Attached","Stopped","End Of File"
1,12/09/16 16:00:00,73.947,26.914,Logged,,,
2,12/09/16 16:05:00,75.074,26.961,,,,
3,12/09/16 16:10:00,76.071,24.956,,,,
```

5.0 Data Remarks

5.1 PI's assessment of the data

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.