

**Vaisala DigiCORA tethersonde system data provided by the
University of Utah from the Playa site**

TB-PL

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1.0 Data Set Overview

1.1 Time period covered by the data

September 25, 2012

September 26, 2012

September 28, 2012

September 29, 2012

October 1, 2012

October 2, 2012

October 3, 2012

October 6, 2012

October 7, 2012

October 9, 2012

October 10, 2012

October 14, 2012

October 15, 2012

October 18, 2012

October 19, 2012

October 20, 2012

October 21, 2012

1.2 Physical location (latitude, longitude, elevation)

40.134909, -113.45097, 1298

1.3 Instrument type

Tethersonde

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 DigiCORA tethered balloon system used to make profiles from the surface to 400m above ground level over a 20minute period (approximately 2 per hour during IOPs)



2.1 Instrument website

http://www.vaisala.com/Vaisala%20Documents/Vaisala%20News%20Articles/VN161/VN161_Vaisala_Launches_the_DigiCORA_Tethersonde_System.pdf

2.2 Table of specifications

Accuracy	Range	Frequency	Resolution

3.0 Data Collection and Processing

3.1 Description of data collection

20:22:20	870.60	18.6	39.7	1330	0.5	127	8.1	30.4	4.7	
0.86	6.15	1.0	0.00	0.00	0.0	0.000	0.000	0.000	0.000	0.000
0.000	0.000									
20:22:22	870.62	18.0	40.2	1330	0.4	109	8.0	29.8	4.3	
0.86	5.99	3.0	0.00	0.00	0.0	0.000	0.000	0.000	0.000	0.000
0.000	0.000									
20:22:23	870.33	18.6	40.0	1333	0.4	103	8.0	30.4	4.8	
0.86	6.20	4.0	0.00	0.00	0.0	0.000	0.000	0.000	0.000	0.000
0.000	0.000									
20:22:24	870.62	18.4	39.6	1330	0.5	95	8.0	30.2	4.5	
0.86	6.07	5.0	0.00	0.00	0.0	0.000	0.000	0.000	0.000	0.000
0.000	0.000									
20:22:25	870.52	18.1	39.8	1331	0.5	89	8.0	29.9	4.3	
0.86	5.98	6.0	0.00	0.00	0.0	0.000	0.000	0.000	0.000	0.000
0.000	0.000									

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>.