A Big Earth Data Platform for Three Poles

**Dataset of temperature obtained from 10m meteorological tower with 4 levels in Hulugou sub-basin of the Heihe River Basin (2011)**

1、Description

1. Data overview:   
This data set is the daily scale meteorological gradient data of Qilian station from October 1, 2011 to December 31, 2011 (installed at the end of September 2011). The observation of vg1000 gradient observation system started on October 1, 2011, recording data every 30 mins, and finally generating daily scale data. Through the long-term monitoring of wind speed and direction, air temperature and humidity, radiation and other conventional meteorological elements, combined with high-precision, high scanning frequency data collector for data storage and processing analysis.   
2. Data content:   
The main observation elements include four layers of air temperature, humidity and two-dimensional ultrasonic wind, rain and snow meter, eight layers of ground temperature, soil moisture, etc.   
3. Space time scope:   
Geographic coordinates: longitude: longitude: 99 ° 52 ′ E; latitude: 38 ° 15 ′ n; altitude: 3232.3m

2、Keywords

Theme：Soil,Temperature,Soil water content,Winds,Humidity/Dryness,Near surface temperature,wind speed  
Discipline：Atmosphere,Terrestrial Surface  
Places：Heihe River Basin, Hulugou Basin  
Time：2011,

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：0.054MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.25 | - |
| west：99.87 | - | east：99.87 |
| - | south：38.25 | - |

5、Time frame:2011-10-13 21:22:00+00:00--2012-01-12 21:22:00+00:00

6、Reference method

References to data:

HAN Chuntan, CHEN Rensheng. Dataset of temperature obtained from 10m meteorological tower with 4 levels in Hulugou sub-basin of the Heihe River Basin (2011). A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.074.2013.db2015

References to articles:

Chen, R.S., Song, Y.X., Kang, E.S., Han, C.T., Liu, J.F., Yang, Y., Qing, W.W., &Liu, Z.W. (2014). A Cryosphere-Hydrology Observation System in a Small Alpine Watershed in the Qilian Mountains of China and Its Meteorological Gradient. Arctic, Antarctic, and Alpine Research, 46(2), 505-523.  
  
Han, C.T., Chen, R.S., Liu, Z.W., Yang, Y., Liu, J.F., Song, Y.X., Wang, L., Liu, G.H., Guo, S.H.,, & Wang, X.Q. (2018). Cryospheric Hydrometeorology Observation in the Hulu Catchment (CHOICE), Qilian Mountains, China. Vadose Zone Journal, 17(1), 1-18.

7、Supporting project information

8、Data resource provider

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