A Big Earth Data Platform for Three Poles

**10 m meteorological gradient data set of hulugou basin (2012)**

1、Description

1. Data overview:
This data set is the scale meteorological gradient data of qilian station from January 1, 2012 to December 31, 2012 (installed at the end of September 2011).VG1000 gradient observation system carries out long-term monitoring of wind speed, wind direction, air temperature, humidity, radiation and other conventional meteorological elements, and carries out data storage and processing analysis in combination with the data collector with high precision and high scanning frequency.
2. Data content:
The main observation factors include four layers of air temperature, humidity and two-dimensional ultrasonic wind, rain and snow volume meter, eight layers of ground temperature, soil moisture content, etc.
3. Space and time range:
Geographical coordinates: longitude: longitude: 99° 52’e;Latitude: 38°15 'N;Height: 3232.3 m

2、Keywords

Theme：Temperature,Precipitation,Precipitation amount,Humidity/Dryness,Hydrology
Discipline：Atmosphere,Terrestrial Surface
Places：Heihe River Basin, Upper Reaches of Heihe Basin, Hulugou Basin
Time：2012

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:2012-07-10 22:00:00+00:00--2013-07-10 22:00:00+00:00

6、Reference method

References to data:

CHEN Rensheng. 10 m meteorological gradient data set of hulugou basin (2012). A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.078.2014.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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