A Big Earth Data Platform for Three Poles

**Yulong snow mountain glacier No.1, 4800 m altitude the daily average meteorological observation dataset (2014-2018)**

1、Description

1.The data content: air temperature, relative humidity, precipitation, air pressure, wind speed, the average daily data of total radiation, the total net radiation and vapor pressure.
2. Data sources and processing methods: campel mountain type automatic meteorological station observation by the United States, including air temperature and humidity sensor model HMP155A;Wind speed and direction finder models: 05103-45;Net radiation instrument: CNR four radiometer component;The atmospheric pressure sensor: CS106;The measuring cylinder: TE525MM.Automatic meteorological station every ten minutes automatic acquisition data, after complete automatic acquisition daily meteorological data then daily mean value were calculated statistics.
3.Data quality description: automatic continuous access to data.
4.Data application results and prospects: the weather set in upper glaciers, meteorological data provide data support for snow - runoff model simulation, and provides data for the glacier dynamics model and simulation.

2、Keywords

Theme：Temperature,Humidity/Dryness,Pressure
Discipline：Atmosphere
Places：Yulong snow mountain, Tibetan Plateau
Time：204-2018

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.15MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：27.1 | - |
| west：100.19 | - | east：100.19 |
| - | south：27.1 | - |

5、Time frame:2014-01-07 16:00:00+00:00--2018-12-27 16:00:00+00:00

6、Reference method

References to data:

LIU Jing. Yulong snow mountain glacier No.1, 4800 m altitude the daily average meteorological observation dataset (2014-2018). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2702752018

References to articles:

Wang, S.J., Du, J.K., &He, Y.Q. (2014). Spatial-temporal characteristics of a temperate-glacier's active-layer temperature and its responses to climate change: a case study of Baishui Glacier No.1 (BSG1), southeastern Tibetan plateau. Journal of Earth Science, 25(4), 727-734.

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program

8、Data resource provider

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