A Big Earth Data Platform for Three Poles

**Basic meteorological data of Sejila peak at Southeast Tibet station of Chinese Academy of Sciences (2016-2019)**

1、Description

This data is the data of automatic weather station (AWS, Campbell company) set up at the top of the mountain in the west slope of Sejila by the comprehensive observation and research station of Southeast Tibet alpine environment of Chinese Academy of Sciences in 2016. The geographical coordinates are 29.5919 n, 94.6102 e, with an altitude of 4640 m, and the underlying surface is alpine grassland.
The data include daily arithmetic mean data of air temperature (℃), relative humidity (%), wind speed (M / s) and air pressure (MB) and daily accumulated value of precipitation. The original data is an average of 30 minutes before October 2018, and an average of 10 minutes after that. The temperature and humidity are measured by hmp155a temperature and humidity probe. The rainfall instrument model is rg3-m, the atmospheric pressure sensor probe is ptb210, and the wind speed sensor is 05103. These probes are 2 m above the ground. In terms of data quality: the obvious abnormal values are eliminated, the battery is damaged due to snow in the first half of 2019, and the data is missing. The missing temperature data is corrected by using the temperature fitting regression of 43900 m at nearby stations, and the data is yellow. Please pay attention when using it; the monitoring of precipitation starts from August 2019. The data station is a high altitude meteorological station in Southeast Tibet, which will be updated from time to time. It can be used by scientific researchers studying ecology, climate, hydrology, glaciers, etc.

2、Keywords

Theme：Maximum/Minimum temperature,Precipitation,Temperature,Grassland,Precipitation,Grassland
Discipline：Atmosphere,Terrestrial Surface
Places：Shergyla Mountain
Time：2016-2019

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.058MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：29.7 | - |
| west：94.5 | - | east：94.7 |
| - | south：29.5 | - |

5、Time frame:2016-07-31 16:00:00+00:00--2019-12-31 03:59:59+00:00

6、Reference method

References to data:

Luo Lun. Basic meteorological data of Sejila peak at Southeast Tibet station of Chinese Academy of Sciences (2016-2019). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2711612021

References to articles:

罗伦, 旦增, 朱立平, 等. (2021). 藏东南色季拉山气温和降水垂直梯度变化. 高原气象, DOI: 10. 7522/j. issn. 1000-0534. 2019. 00123.

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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