A Big Earth Data Platform for Three Poles

**Data from automatic weather station at the end of glacier in Qinghai-Tibet Plateau (2019-2020)**

1、Description

Glacier surface micrometeorology is to observe the wind direction, wind speed, temperature, humidity, air pressure, four component radiation, ice temperature and precipitation at a certain height of the glacier surface. Glacier surface micrometeorology monitoring is one of the important contents of glacier monitoring. It is an important basic data for the study of energy mass balance, glacier movement, glacier melt runoff, ice core and other related model simulation, which lays a foundation for exploring the relationship between climate change and glacier change. Automatic monitoring is mainly carried out by setting up Alpine weather stations on the glacier surface, and portable weather stations can also be used for short-term flow monitoring. In recent years, more than 20 glacier surfaces in Tianshan, West Kunlun, Qilian, Qiangtang inland, Tanggula, Nianqing Tanggula, southeastern Tibet, Hengduan and Himalayas have been monitored. The data set is monthly meteorological data of glacier area and glacier end.

2、Keywords

Theme：Visibility,Glacier(Ice Sheet)
Discipline：Atmosphere,Cryosphere
Places：Tibetan Plateau and TienShan
Time：2020

3、Data details

1.Scale：None

2.Projection：

3.Filesize：10.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：-1.0 | - |
| west：-1.0 | - | east：-2.0 |
| - | south：-1.0 | - |

5、Time frame:2018-12-31 16:00:00+00:00--2020-12-31 03:59:59+00:00

6、Reference method

References to data:

YANG Wei. Data from automatic weather station at the end of glacier in Qinghai-Tibet Plateau (2019-2020). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2713942021

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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