A Big Earth Data Platform for Three Poles

**Conventional ice surface meteorological data for Parlung Glacier No. 4 and Debris-covered 24K Glacier in southeast Tibet from June to September (2016)**

1、Description

This data set contains conventional ice surface meteorological data for Parlung Glacier No. 4 and debris-covered 24K Glacier in Southeast Tibet from June to September 2016. Meteorological observation instrument model: Campbell data logger CR1000; precipitation observation instrument models: T200B weighing rain cylinder for Parlung Glacier No. 4 and RG-3 tipping rain gauge for 24K Glacier. Acquisition time: 60 minutes. The data were collected automatically, and the data set was processed to form a continuous hourly time series after quality controlling the original data.
The data collection sites were Parlung Glacier No. 4 (29.252°N; 96.932°E; 4800 m) and the debris-covered 24K glacier in Southeast Tibet (29.766°N; 95.712°E; 3900 m).
Data for Parlung Glacier No. 4 at an elevation of 4800 m:
Temperature, unit: °C
Relative humidity, unit: %
Wind speed, unit, m/s
Downward shortwave radiation, unit: W/m2
Upward shortwave radiation, unit: W/m2
Downward longwave radiation, unit: W/m2
Upward longwave radiation, unit: W/m2
Precipitation, unit: mm
Data for debris-covered 24K Glacier at an elevation of 3900 m (debris thickness: 25 cm):
Temperature, unit: °C
Relative humidity, unit: %
Wind speed, unit, m/s
Downward shortwave radiation, unit: W/m2
Upward shortwave radiation, unit: W/m2
Downward longwave radiation, unit: W/m2
Upward longwave radiation, unit: W/m2
Precipitation, unit: mm
Temperature with a debris thickness of 5 cm, unit: °C
Temperature with a debris thickness of 10 cm, unit: °C
Temperature with a debris thickness of 20 cm, unit: °C

2、Keywords

Theme：Precipitation,Glaciers,Precipitation amount,Glacier(Ice Sheet)
Discipline：Atmosphere,Cryosphere
Places：Southeast Tibet, Tibetan Plateau , Parlung Glacier No.4, 24K Glacier
Time：2016-06 to 2016-09

3、Data details

1.Scale：None

2.Projection：

3.Filesize：1.3MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：30.0 | - |
| west：95.0 | - | east：97.0 |
| - | south：29.0 | - |

5、Time frame:2016-06-05 00:00:00+00:00--2016-10-04 00:00:00+00:00

6、Reference method

References to data:

YANG Wei. Conventional ice surface meteorological data for Parlung Glacier No. 4 and Debris-covered 24K Glacier in southeast Tibet from June to September (2016). A Big Earth Data Platform for Three Poles, doi:10.11888/AtmosPhys.tpe.249475.db2018

References to articles:

Yang, W., Yao, T.D., Zhu, M.L., &Wang, Y.J. (2017). Comparison of the meteorology and surface energy fluxes of debris-free and debris-covered glaciers in the southeastern Tibetan Plateau. Journal of Glaciology, 63(242), 1-15.

7、Supporting project information

8、Data resource provider

name: YANG Wei
unit: Institute of Tibetan Plateau Research,Chinese Academy of Sciences
email: yangww@itpcas.ac.cn