A Big Earth Data Platform for Three Poles

**The glacier inventory of Qilian Mountain Area (v2.0, 2020)**

1、Description

This dataset contains the glacier outlines in Qilian Mountain Area in 2020. The dataset was produced based on classical band ratio criterion and manual editing. Chinese GF series images collected in 2020 were used as basic data for glacier extraction. Sentinel-2 images, Google images and Map World images were employed as reference data for manual adjusting. The dataset was stored in SHP format and attached with the attributions of coordinates, glacier ID and glacier area. Consisting of 1 season, the dataset has a spatial resolution of 2 meters. The accuracy is about 1 pixel (±2 meter). The dataset directly reflects the glacier distribution within the Qilian Mountain in 2020, and can be used for quantitative estimation of glacier mass balance and the quantitative assessment of glacier change’s impact on basin runoff.

2、Keywords

Theme：Cryosphere remote sensing products,Surface Freeze-thaw Cycle/state Remote Sensing,glacier inventory,Glacier(Ice Sheet)
Discipline：Cryosphere
Places：Qilian Mountain Area
Time：2020

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：2.7MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.575 | - |
| west：95.125 | - | east：102.238 |
| - | south：37.475 | - |

5、Time frame:None--None

6、Reference method

References to data:

Li Jia, LI Jia. The glacier inventory of Qilian Mountain Area (v2.0, 2020). A Big Earth Data Platform for Three Poles, doi:10.11888/Cryos.tpdc.2724612022

References to articles:

李佳，顾云杨，李建江，李新，刘绍民. 祁连山地区2020年冰川边界产品. (2021). 国家青藏高原科学数据中心(http://data.tpdc.ac.cn/zh-hans/) [Li Jia, Gu Yun-yang, Li Jian-jiang, Li Xin, Liu Shao-min. The dataset of glacier outlines in the Qilian Mountain Area in 2020. (2021). National Tibetan Plateau Data Center (http://data.tpdc.ac.cn/zh-hans/)].

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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