A Big Earth Data Platform for Three Poles

**The glacier inventory of Qilian Mountain Area (2019)**

1、Description

This dataset contains the glacier outlines in Qilian Mountain Area in 2019. The dataset was produced based on classical band ratio criterion and manual editing. Chinese GF series images collected in 2019 were used as basic data for glacier extraction. 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 2018, 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  
Time：2019

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：3.2MB

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 Xin, LIU Shaomin, Li Jia, LI Jia, LI Jianjiang, WANG Yingzheng. The glacier inventory of Qilian Mountain Area (2019). A Big Earth Data Platform for Three Poles, doi:10.11888/Glacio.tpdc.2706682020

References to articles:

7、Supporting project information

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

8、Data resource provider

name: Li Jia  
unit: Central South University  
email: lijia20050710@csu.edu.cn  
  
name: Li Jia  
unit:   
email: lijia20050710@csu.edu.cn  
  
name: LI Jianjiang  
unit: Central South University  
email: ljj1450941816@gmail.com  
  
name: WANG Yingzheng  
unit: Central South Univeristy  
email: wy-zheng@outlook.com  
  
name: LI Xin  
unit:   
email: xinli@itpcas.ac.cn  
  
name: LIU Shaomin  
unit: Beijing Normal University  
email: smliu@bnu.edu.cn  
  
name: LI Jia  
unit:   
email: lijia20050710@csu.edu.cn  
  
name: LI Jia  
unit: Central South University  
email: lijia20050710@csu.edu.cn