A Big Earth Data Platform for Three Poles

**Glacier outlines over the Qilian Mountain area (1980-2015)**

1、Description

This dataset contains the glacier outlines in Qilian Mountain Area from 1980 to 2015. The dataset was produced based on classical band ratio criterion and manual editing. Landsat images collected between 1978 and 2018 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 8 seasons, the dataset has a temporal resolution of 5 years and a spatial resolution of 30 meters. The accuracy is about 1 pixel (±30 meter). The dataset directly reflects the variation of glacier distribution within the Qilian Mountain in the past 35 years, 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
Discipline：Cryosphere
Places：Qilian Mountain Area
Time：1980-2015

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：16.8MB

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, LI Jianjiang, WANG Yingzheng. Glacier outlines over the Qilian Mountain area (1980-2015). A Big Earth Data Platform for Three Poles, doi:10.11888/Geogra.tpdc.2702342019

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 Jia
unit:
email: lijia20050710@csu.edu.cn

name: LI Jia
unit: Central South University
email: lijia20050710@csu.edu.cn