A Big Earth Data Platform for Three Poles

**The third polar area glacier surface elevation change data product v1.0**

1、Description

The recent glacial changes in the third polar region have become the focus of the governments of the surrounding countries because of their important significance to the downstream water supply. Based on SRTM acquired in 2000 and aster stereo image pairs before and after 2015, more than 40 Typical Glaciers in the third polar region were selected to estimate the glacial surface elevation in corresponding period. This product estimates the surface elevation changes of more than 14000 glaciers in the third polar region in 2000-2015s, and the investigated area accounts for about 25% of the total glaciers in the third polar region. The data covers the whole third pole area except Altai mountain, with a spatial resolution of 30m.

2、Keywords

Theme：Mass balance,Glacier(Ice Sheet)  
Discipline：Cryosphere  
Places：The third pole  
Time：2000-2015s

3、Data details

1.Scale：None

2.Projection：

3.Filesize：55398.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：51.0 | - |
| west：66.0 | - | east：105.0 |
| - | south：25.0 | - |

5、Time frame:2000-02-23 00:00:00+00:00--2015-10-12 00:00:00+00:00

6、Reference method

References to data:

CHEN An‘an. The third polar area glacier surface elevation change data product v1.0. A Big Earth Data Platform for Three Poles, doi:10.11888/Glacio.tpdc.2703292019

References to articles:

陈安安, (2017). 基于多源DEM的近50年高亚洲地区冰川物质研究. 博士, 中国科学院大学.

7、Supporting project information

CASEarth:Big Earth Data for Three Poles（grant No. XDA19070000）  
Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program  
Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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