A Big Earth Data Platform for Three Poles

**Data set of glacier advance and retreat range in Karakoram area**

1、Description

The ages of glacial traces of the last glacial maximum, Holocene and little ice age in the Westerlies and monsoon areas were determined by Cosmogenic Nuclide (10Be and 26Al) exposure dating method to determine the absolute age sequence of glacial advance and retreat. The distribution of glacial remains is investigated in the field, the location of moraine ridge is determined, and the geomorphic characteristics of moraine ridge are measured. According to the geomorphic location and weathering degree of glacial remains, the relationship between the new and the old is determined, and the moraine ridge of the last glacial maximum is preliminarily determined. The exposed age samples of glacial boulders on each row of moraine ridges were collected from the ridge upstream. This data includes the range of glacier advance and retreat in Karakoram area during climate transition period based on 10Be exposure age method.

2、Keywords

Theme：Glacier topography,Length,Glacier change,Glacier(Ice Sheet)  
Discipline：Cryosphere  
Places：Karakoram  
Time：Holocene

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.1MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.0 | - |
| west：75.0 | - | east：76.0 |
| - | south：37.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

XU Xiangke. Data set of glacier advance and retreat range in Karakoram area. A Big Earth Data Platform for Three Poles, doi:10.11888/Glacio.tpdc.2709342020

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: XU Xiangke  
unit:   
email: xkxu@itpcas.ac.cn