A Big Earth Data Platform for Three Poles

**Current state and past changes in frozen ground at the Third Pole**

1、Description

The dataset include the current (2000-2016) extent of permafrost, seasonally frozen ground, and unfrozen ground, as well as decadal change of MAGT and active layer thickness in Third Pole support the analysis of publication in Advances in Climate Change Research (Ran et al., 2022).

2、Keywords

Theme：seasonally frozen ground,Permafrost degradation,Permafrost,Frozen Ground  
Discipline：Cryosphere  
Places：Pamir Plateau, High mountain Asia, Tibetan Plateau, Tianshan mountain  
Time：2010s, 1960s, 1970s, 2000s, 1980s, 1990s

3、Data details

1.Scale：None

2.Projection：

3.Filesize：150.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：24.0 | - |
| west：62.0 | - | east：105.0 |
| - | south：45.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

LI Xin, RAN Youhua, WANG Bingquan, CHE Tao, CHENG Guodong. Current state and past changes in frozen ground at the Third Pole. A Big Earth Data Platform for Three Poles, doi:10.11888/Cryos.tpdc.2727902022

References to articles:

Ran, Y., Li, X., Che, T., Wang, B., & Cheng, G. (2022). Current state and past changes in frozen ground at the Third Pole: A research synthesis. Advances in Climate Change Research, Doi:10.1016/j.accre.2022.09.004.

7、Supporting project information

CASEarth:Big Earth Data for Three Poles（grant No. XDA19070000）

8、Data resource provider

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