A Big Earth Data Platform for Three Poles

**Distribution Data of Freezing-thawing Hazards in Qinghai Tibet Engineering Corridor (2019-2020)**

1、Description

Based on the data of GF-1 and GF-2 in China, the freeze-thaw disaster distribution data of Qinghai Tibet project corridor is produced by using the deep learning classification method and manual visual interpretation and correction. The geographical range of the data is 40km along the Xidatan Anduo section of Qinghai Tibet highway. The data include the distribution data of thermokast lakes and the distribution data of thermal melting landslides. The dataset can provide data basis for the research of freeze-thaw disaster and engineering disaster prevention and reduction in Qinghai Tibet engineering corridor. The spatial distribution of freezing and thawing disasters within 40km along the Xidatan-Anduo section of Qinghai Tibet highway is self-made based on the domestic GF-2 image data. Firstly, the deep learning method is used to extract the mud flow terrace block from GF-2 data; Then, ArcGIS is used for manual editing.

2、Keywords

Theme：Others,Terrestrial Surface Remote Sensing
Discipline：Terrestrial Surface,Remote Sensing Technology
Places：Qinghai Tibet engineering corridor
Time：2015-2020

3、Data details

1.Scale：None

2.Projection：

3.Filesize：19.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：35.9 | - |
| west：91.5 | - | east：94.5 |
| - | south：32.1 | - |

5、Time frame:2018-12-31 16:00:00+00:00--2020-12-31 03:59:59+00:00

6、Reference method

References to data:

LUO Jing, NIU Fujun. Distribution Data of Freezing-thawing Hazards in Qinghai Tibet Engineering Corridor (2019-2020). A Big Earth Data Platform for Three Poles, doi:10.11888/RemoteSen.tpdc.2728812022

References to articles:

7、Supporting project information

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

8、Data resource provider

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