A Big Earth Data Platform for Three Poles

**High resolution surface morphology of Kuoqionggangri Glacier (2020-2021)**

1、Description

The dataset includes three high-resolution DSM data as well as Orthophoto Maps of Kuqionggangri Glacier, which were measured in September 2020, June 2021 and September 2021. The dataset is generated using the image data taken by Dajiang Phantom 4 RTK UAV, and the products are generated through tilt photogrammetry technology. The spatial resolution of the data reaches 0.15 m. This dataset is a supplement to the current low-resolution open-source topographic data, and can reflect the surface morphological changes of Kuoqionggangri Glacier from 2020 to 2021. The dataset helps to accurately study the melting process of Kuoqionggangri Glacier under climate change.

2、Keywords

Theme：Others,Glacier topography,Topography,Surface elevation changes,Altimetry,DSM (Digital Surface Model),Glacier melt,Geomorphology,Glacier(Ice Sheet),Landform
Discipline：Terrestrial Surface,Remote Sensing Technology,Cryosphere
Places：Kuoqionggangri, Tibet Plateau
Time：2020, 2021

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：1321.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：29.88 | - |
| west：90.18 | - | east：90.21 |
| - | south：29.85 | - |

5、Time frame:None--None

6、Reference method

References to data:

LIU Jintao . High resolution surface morphology of Kuoqionggangri Glacier (2020-2021). A Big Earth Data Platform for Three Poles, doi:10.11888/Cryos.tpdc.2725382022

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

name: LIU Jintao
unit: Hohai University
email: jtliu@hhu.edu.cn