A Big Earth Data Platform for Three Poles

**The DEM dataset in key areas of Qilian mountain (2018)**

1、Description

This dataset is the 2018 Digital Elevation Model (DEM) of the key area of Qilian Mountain,spatial resolution 5m. This dataset is based on the high-definition survey satellite ZY-3. Through the three-lines CCD with spatial resolution of 2.1m and 3.5m, combined with the basic data such as high-precision topographic maps. The dem is generated by the front-view stereo relative and adjustment model. Finally, the 5m×5m Qilian Mountain key area DEM data set was spliced by the Mosaic tool of GIS software. The data can be applied to three-dimensional spatial data processing, hydrological analysis, terrain analysis, disaster monitoring, and human activity monitoring in key areas of Qilian Mountain.

2、Keywords

Theme：Digital elevation model,Topography
Discipline：Terrestrial Surface
Places：Qilian Mountain
Time：2018

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：25088.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.83 | - |
| west：94.76 | - | east：103.76 |
| - | south：36.49 | - |

5、Time frame:None--None

6、Reference method

References to data:

QI Yuan, ZHOU Shengming, ZHANG Jinlong, WANG Hongwei. The DEM dataset in key areas of Qilian mountain (2018). A Big Earth Data Platform for Three Poles, doi:10.11888/Geogra.tpdc.2701442019

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: ZHOU Shengming
unit: Cold and Arid Regions Environmental and Engineering Research Institute, CAS
email: 23156311@qq.com

name: ZHANG Jinlong
unit: Northwest Institute of Eco-Environment and Resources, CAS
email: zhangjinlong2000@hotmail.com

name: WANG Hongwei
unit:
email: wanghw@lzb.ac.cn

name: QI Yuan
unit: Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences
email: qiyan@lzb.ac.cn