A Big Earth Data Platform for Three Poles

**Glacier runoff segmentation data set in the five river source areas of the Qinghai Tibet Plateau (1971-2015)**

1、Description

The Qinghai Tibet Plateau is known as the "Asian water tower", and its runoff, as an important and easily accessible water resource, supports the production and life of billions of people around, and supports the diversity of ecosystems. Accurately estimating the runoff of the Qinghai Tibet Plateau and revealing the variation law of runoff are conducive to water resources management and disaster risk avoidance in the plateau and its surrounding areas. The glacier runoff segmentation data set covers the five river source areas of the Qinghai Tibet Plateau from 1971 to 2015, with a time resolution of year by year, covering the five river source areas of the Qinghai Tibet Plateau (the source of the Yellow River, the source of the Yangtze River, the source of the Lancang River, the source of the Nujiang River, and the source of the Yarlung Zangbo River), and the spatial resolution is the watershed. Based on multi-source remote sensing and measured data, it is simulated using the distributed hydrological model vic-cas coupled with the glacier module, The simulation results are verified with the measured data of the station, and all the data are subject to quality control.

2、Keywords

Theme：Others,Surface Water,Runoff,Qinghai-Tibet Plateau,Runoff
Discipline：Terrestrial Surface,Cryosphere
Places：Tibetan Plateau
Time：1971,2015

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.032MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：37.0 | - |
| west：81.0 | - | east：104.0 |
| - | south：27.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

WANG Shijin . Glacier runoff segmentation data set in the five river source areas of the Qinghai Tibet Plateau (1971-2015). A Big Earth Data Platform for Three Poles, doi:10.11888/Terre.tpdc.2727052022

References to articles:

Zhao, Q.D., Ding, Y.J., Wang, J., Gao, H., Zhang, S., Zhao, C., Xu, J., Han, H., & Shangguan, D. (2019). Projecting climate change impacts on hydrological processes on the Tibetan Plateau with model calibration against the glacier inventory data and observed stream flow. Journal of Hydrology, 573, 60-81.

7、Supporting project information

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

8、Data resource provider

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