A Big Earth Data Platform for Three Poles

**Sounding data of lakes in Qinghai Tibet Plateau (2000,2018)**

1、Description

The data consists of three fields: longitude, latitude and lake depth. Using sonar equipment to measure the depth of water on the lake, GPS synchronous measurement of longitude and latitude. The salinity and temperature data of lake water are used to correct the depth data measured by sonar, and the outliers are eliminated. The underwater topographic map of lake can be formed by interpolation of water depth data. Using the underwater topographic map, the water storage of lakes can be calculated and the total water quantity of lakes in the Qinghai Tibet Plateau can be evaluated. The underwater topographic map combined with remote sensing data can also be used to study the characteristics and influencing factors of lake water quantity variation in the Qinghai Tibet Plateau, which is an important part of the study of water quantity variation in the Asian water tower.

2、Keywords

Theme：Surface Water  
Discipline：Terrestrial Surface  
Places：lake  
Time：2000, 2018

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.02MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.3 | - |
| west：79.8 | - | east：100.2 |
| - | south：28.57 | - |

5、Time frame:None--None

6、Reference method

References to data:

ZHU Liping. Sounding data of lakes in Qinghai Tibet Plateau (2000,2018). A Big Earth Data Platform for Three Poles, doi:10.11888/Hydro.tpdc.2713572021

References to articles:

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program  
Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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