A Big Earth Data Platform for Three Poles

**Ion compositions dataset of lake water in some lakes on the Tibetan Plateau (2020)**

1、Description

In the summer of 2020, the water samples from 26 lakes were collected mainly in the southern and eastern Tibetan Plateau. At the same time, the water samples from 3 lakes in the Hoh Xil region were collected from October to November 2020. Put the collected lake water samples into plastic bottles. Some samples are titrated on-site with an alkalinity kit to obtain the concentration of CO32- and HCO3- ions. The rest samples are stored in the refrigerator. After they are brought back to the laboratory, the concentration of main cations K+, Na+, Ca2+, Mg2+ is tested by ICP-OES, and the concentration of HNO -, SO42-, F- and Cl- ions are meastured by anion chromatography.

2、Keywords

Theme：Cations and anions,Water chemistry,Surface Water,water quality parameter,Water Environment,Water Quality/Water Chemistry  
Discipline：Terrestrial Surface  
Places：Tibetan Plateau  
Time：2020, day

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：0.1MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：35.68336 | - |
| west：81.73373 | - | east：93.41152 |
| - | south：28.5787 | - |

5、Time frame:2020-07-31 16:00:00+00:00--2020-09-30 03:59:59+00:00

6、Reference method

References to data:

MENG Xianqiang . Ion compositions dataset of lake water in some lakes on the Tibetan Plateau (2020). A Big Earth Data Platform for Three Poles, doi:10.11888/Terre.tpdc.2722162022

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program  
the Second Tibetan Plateau Scientific Expedition and Research Program

8、Data resource provider

name: MENG Xianqiang   
unit: Nanjing Institute of Geography and Limnology, CAS  
email: xqmeng@niglas.ac.cn