A Big Earth Data Platform for Three Poles

**Optical stimulated luminescence ages of the mega-lakes in the northwestern Tibetan Plateau**

1、Description

Paleo-shorelines are widely developed in the lakes of the Tibetan Plateau (TP), which record the history of paleo-lake level changes. The development age of the mega-lake represented by the highest paleo-shoreline is controversial. The age of the shoreline or the mega-lake can be obtained by measuring the burial age of the shoreline sand in the sedimentary strata of the paleo-shoreline by using the optical stimulated luminescence (OSL) dating technology. This data includes the OSL ages of the highest paleo-shorelines of three lakes in the northwestern TP. The dating is based on the K-feldspar pIRIR method developed in recent years, which effectively solves the problem that the quartz OSL signal is not suitable for dating in the study area. This data can provide key information for the evolution history of the mega-lakes on the TP.

2、Keywords

Theme：Surface Water,Lake levels,Lacustrine Sediments,Geomorphology,Landform,Lakes
Discipline：Terrestrial Surface,Palaeoenvironment
Places：Northwestern Tibetan Plateau
Time：Last glaciation

3、Data details

1.Scale：None

2.Projection：

3.Filesize：3.82MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：35.13 | - |
| west：80.21 | - | east：82.44 |
| - | south：33.53 | - |

5、Time frame:None--None

6、Reference method

References to data:

ZHAO Hui, SHENG Yongwei, ZHANG Shuai. Optical stimulated luminescence ages of the mega-lakes in the northwestern Tibetan Plateau. A Big Earth Data Platform for Three Poles, doi:10.11888/Paleoenv.tpdc.2714682021

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

name: SHENG Yongwei
unit:
email: ysheng@geog.ucla.edu

name: ZHAO Hui
unit:
email: hzhao@lzb.ac.cn

name: ZHANG Shuai
unit:
email: zhangs@itpcas.ac.cn