A Big Earth Data Platform for Three Poles

**Hydrogen isotope data for 40,000 years in Tengchong Qinghai, southwest China**

1、Description

This data set is the hydrogen isotope data of leaf wax from 10 m core of Qinghai Lake in Tengchong, Southeast of Qinghai Tibet Plateau. Tengchong Qinghai Lake is a small crater lake in Gaoligong Mountain, Southwest China. Core samples were collected at about 4m in the center of the lake in 2017. Ams-14c dating was used to establish the age series. The n-alkane leaf wax hydrogen isotope was determined and analyzed by Agilent 6890 GC gas chromatograph and Deltaplus XL type chromatography isotope mass spectrometry. The data reflect the information of atmospheric precipitation isotope in this area, and play an important role in the study of monsoon precipitation changes in southwest monsoon region in the past 40000 years. Data acquisition, pre-processing extraction and instrument testing were completed in strict accordance with the relevant operating procedures.

2、Keywords

Theme：Paleoclimate Reconstruction
Discipline：Palaeoenvironment
Places：Southeast of the Tibetan Plateau
Time：40 kyr BP

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.01MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：25.13 | - |
| west：98.56 | - | east：98.56 |
| - | south：25.13 | - |

5、Time frame:None--None

6、Reference method

References to data:

ZHAO Cheng. Hydrogen isotope data for 40,000 years in Tengchong Qinghai, southwest China. A Big Earth Data Platform for Three Poles, doi:10.11888/Paleoenv.tpdc.2707432020

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

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