A Big Earth Data Platform for Three Poles

**Reconstruction data of paleoclimate in Qilian Mountains in East Asian monsoon region**

1、Description

Based on the changes of tree ring stable oxygen isotope ratio Since 1750 established in Qilian mountain area, based on the negative correlation between tree ring oxygen isotope ratio and summer drought index, the linear correlation equation between tree ring oxygen isotope and drought index is established, and the quantitative reconstruction of drought index from 1750 to 2016 is preliminarily completed. This result is helpful to understand the characteristics of regional dry and wet change from interannual to interdecadal scale. At the same time, it can also compare and study the impact of global change caused by human activities on regional hydrology and climate since the industrial revolution. It is of certain significance in revealing the mechanism of regional dry and wet change and distinguishing the impact of human activities and natural variability on regional climate.

2、Keywords

Theme：Tree ring oxygen,Paleoclimate Reconstruction
Discipline：Palaeoenvironment
Places：East Asian Monsoon region
Time：1750-2016

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.01MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.6 | - |
| west：97.8 | - | east：97.8 |
| - | south：39.6 | - |

5、Time frame:None--None

6、Reference method

References to data:

XU Chenxi. Reconstruction data of paleoclimate in Qilian Mountains in East Asian monsoon region. A Big Earth Data Platform for Three Poles, doi:10.11888/Paleoenv.tpdc.2716992021

References to articles:

7、Supporting project information

Comparative study of past climate changes at multi-timescale in East Asian monsoon region and Westerly zone
NSFC Basic Research Center Program: Continental Evolution and Earth’s monsoon System

8、Data resource provider

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