A Big Earth Data Platform for Three Poles

**Chronology, thickness and reconstructed precipitation of varves in Jiangco, central Tibet Plateau (81-2015 A.D.)**

1、Description

Lake sediment is important archive for reconstructing the past climate change, in which the chronological framework of sediments is the basis. Varve is a kind of sedimentary lamina formed in pairs in lake sediments, usually with one year as a cycle. Supported by the projects the Strategic Priority Research Program of Chinese Academy of Sciences “Pan-Third Pole Environment Study for a Green Silk Road (Pan-TPE)” and The Second Tibetan Plateau Scientific Expedition and Research, the authors obtained a 1-meter long sediment gravity core from Jiangco in the central Tibet Plateau, and found well preserved varves. Subsequently, core thin sections were made, and the varve and its thickness were counted and measured to obtain the chronological sequence from 81 A.D. to 2015. The precipitation in this area in the past 2000 years has been reconstructed by using the percentage of coarse-grained layer thickness in the total varve thickness, which represents the precipitation. High resolution and high-precision chronology and precipitation records can provide reliable background of climate and environmental change, and provide reference for paleoclimate simulation and the rise and fall of ancient civilization.

2、Keywords

Theme：Paleoclimate Reconstruction,Lake sediments
Discipline：Palaeoenvironment
Places：Tibetan Plateau, Jiang Co
Time：2000 yr BP

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.25MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：31.59 | - |
| west：90.77 | - | east：90.86 |
| - | south：31.51 | - |

5、Time frame:None--None

6、Reference method

References to data:

HOU Juzhi. Chronology, thickness and reconstructed precipitation of varves in Jiangco, central Tibet Plateau (81-2015 A.D.). A Big Earth Data Platform for Three Poles, doi:10.11888/Paleoenv.tpdc.2707392020

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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