A Big Earth Data Platform for Three Poles

**Grain-size data of the Huining loess section on the Chinese Loess Plateau**

1、Description

This data set consists of grain size analysis data of Huining loess profile on the Loess Plateau of China. We have carried out particle size determination and Analysis on the loess profile at an interval of about 5 cm. The total thickness of the profile is about 231m, and the number of samples is 5329. The instrument used is Mastersizer 3000 laser diffraction particle size analyzer manufactured by Malvern Instruments Co., Ltd. in the UK, and the measurement range of the instrument is 0.01 ~ 3500 μ m. Each sample is counted for about 10 seconds, and the accuracy is better than 1%, the repeatability is better than 0.5%, and the reproducibility is better than 1%. The experimental analysis was completed in Shandong Key Laboratory of tourism, resources and environment, Taishan University. This data reflects the variation characteristics of grain size parameters of loess sequence in Huining area of Loess Plateau of China in recent two million years, and is of great significance for the study of paleoclimate / paleoenvironment of Loess Plateau.

2、Keywords

Theme：Loess,Grain size,Loess,Paleoclimate Reconstruction
Discipline：Palaeoenvironment
Places：Chinese Loess Plateau
Time：since two million years

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.3MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：36.0 | - |
| west：105.0 | - | east：105.0 |
| - | south：36.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

HAO Qingzhen. Grain-size data of the Huining loess section on the Chinese Loess Plateau. A Big Earth Data Platform for Three Poles, doi:10.11888/Paleoenv.tpdc.2716852021

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
NSFC National Science Fund for Distinguished Young Scholars: Quaternary Geology

8、Data resource provider

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