A Big Earth Data Platform for Three Poles

**paleo-weathering intensity data of the Titel-Stari Slankamen loess section in Serbia**

1、Description

This data set is composed of paleoweathering intensity analysis data of titel stari slankamen loess comprehensive section in Serbia. The analysis data of paleoweathering intensity include the percentage of free iron oxide and total iron oxide. The ratio of the two is one of the indexes widely used in soil science to evaluate the degree of soil chemical weathering. Free iron oxide and total iron oxide were extracted by CBD (sodium bisulfite sodium citrate sodium bicarbonate solution) method and hf-hno3-hclo4 acid dissolution method respectively, and determined on GGX-600 atomic absorption spectrometer. The total thickness of the profile is about 56m. Free iron oxide and total iron oxide are measured and analyzed at an interval of about 5cm. The number of samples measured is 683 and 622 respectively. The experimental analysis was completed in the Key Laboratory of Cenozoic geology and environment, Chinese Academy of Sciences. This data reflects the variation characteristics of paleoweathering intensity of loess sequence in Serbia in recent one million years, and is of great significance for the study of paleoclimate / Paleoenvironment in southeastern Europe.

2、Keywords

Theme：Total Fe2O3 (FeT),Loess,Loess,Free Fe2O3 (FeD),Paleoclimate Reconstruction
Discipline：Palaeoenvironment
Places：Serbia
Time：since one million years

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.05MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：45.13 | - |
| west：20.3 | - | east：20.3 |
| - | south：45.13 | - |

5、Time frame:None--None

6、Reference method

References to data:

HAO Qingzhen. paleo-weathering intensity data of the Titel-Stari Slankamen loess section in Serbia. A Big Earth Data Platform for Three Poles, doi:10.11888/Paleoenv.tpdc.2716912021

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

name: HAO Qingzhen
unit:
email: haoqz@mail.iggcas.ac.cn