A Big Earth Data Platform for Three Poles

**Data set of Element Content and Isotope in Tarim Basin, Xinjiang (9.3-10Ma)**

1、Description

1) Data content:  
Element content and carbon and oxygen isotope analysis are important indexes for Miocene paleoclimate reconstruction in Tarim Basin  
2) Data sources and processing methods  
Iron content: 4g samples were placed in vibration mill, grinding to less than 200 mesh, the samples were pressed in boric acid with hydraulic press, and finally measured in X-ray fluorescence spectrometer.  
Isotope: The sample is dried at 40℃, then refined to less than 200 mesh, and reacts with 100% phosphoric acid to release CO2 gas in a gas source isophase mass spectrometer.  
3) Data quality  
Sample collection and experimental processing were carried out in accordance with strict standards, and the data obtained were of reliable quality.  
4) Data application achievements and prospects  
Published one SCI paper with this plan.

2、Keywords

Theme：Element content,Isotopes,Paleoclimate Reconstruction  
Discipline：Palaeoenvironment  
Places：Tarim Basin  
Time：Miocene

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.02MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：42.0 | - |
| west：90.0 | - | east：75.0 |
| - | south：37.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

NIE Junsheng. Data set of Element Content and Isotope in Tarim Basin, Xinjiang (9.3-10Ma). A Big Earth Data Platform for Three Poles, doi:10.11888/Paleoenv.tpdc.2724102022

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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