A Big Earth Data Platform for Three Poles

**Geochronology and geochemical data of Riwangchaka Late Devonian magmatic rocks in Qiangtang, Tibet**

1、Description

The data are isotopic dating data, zircon HF-O isotopic data, rock whole rock major and trace data, rock whole rock isotopic geochemical data. The samples were collected from the late Devonian magmatic rocks of Chaka, riwan, Qiangtang, Qinghai Tibet Plateau. Radioisotope geochronology data were obtained by analyzing zircon U-Pb isotopes with secondary ion microprobe. HF and O isotopes of minerals were obtained by laser ablation inductively coupled plasma mass spectrometry and secondary ion probe analysis, respectively. The major, trace and isotopic geochemical data of whole rock were obtained by X-ray fluorescence spectrometry and inductively coupled plasma mass spectrometry, and the whole rock isotopic geochemical data were obtained by inductively coupled plasma mass spectrometry. The data obtained can define the early evolution history of the Qiangtang paleoTethys ocean.

2、Keywords

Theme：Geochemistry,Zircon Hf-O isotope,Sr-Nd isotope  
Discipline：Solid earth  
Places：Qiangtang terrane, Tibet  
Time：Devonian

3、Data details

1.Scale：None

2.Projection：

3.Filesize：1.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：34.0 | - |
| west：84.0 | - | east：86.0 |
| - | south：33.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

DAN Wei. Geochronology and geochemical data of Riwangchaka Late Devonian magmatic rocks in Qiangtang, Tibet. A Big Earth Data Platform for Three Poles, doi:10.11888/Geo.tpdc.2713242021

References to articles:

Dan, W., Wang, Q., Zhang, X.Z., Zhang, C., Tang, G.J., Wang, J., Ou, Q., Hao, L.L., & Qi, Y. (2018). Magmatic record of Late Devonian arc-continent collision in the northern Qiangtang, Tibet: implications for the early evolution of East Paleo-Tethys Ocean. Lithos 308-309, 104-117.

7、Supporting project information

The deep process and resource effect of major geological events in Yanshan period  
The deep process and resource effect of major geological events in Yanshan period (2016YFC0600400)

8、Data resource provider

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