A Big Earth Data Platform for Three Poles

**Geochronology and geochemical data of early Paleozoic magmatic rocks in Southern 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 early Paleozoic magmatic rocks in South 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. Based on the data obtained, the basement rocks and their formation history of Nanqiangtang are identified.

2、Keywords

Theme：Major elements,Geochemistry,Zircon Hf-O isotope
Discipline：Solid earth
Places：South Qiangtang, Tibet
Time：Ordovician

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：1.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：34.0 | - |
| west：84.0 | - | east：86.0 |
| - | south：32.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

DAN Wei. Geochronology and geochemical data of early Paleozoic magmatic rocks in Southern Qiangtang, Tibet. A Big Earth Data Platform for Three Poles, doi:10.11888/Geo.tpdc.2713202021

References to articles:

Dan, W., Wang, Q., Zhang, X.Z., &Tang, G.J. (2020). Early Paleozoic S-type granites as the basement of Southern Qiantang Terrane, Tibet. Lithos 356-357, 105395.

7、Supporting project information

The deep process and resource effect of major geological events in Yanshan period

8、Data resource provider

name: DAN Wei
unit:
email: danwei@gig.ac.cn