A Big Earth Data Platform for Three Poles

**Geochronology and geochemical data of Gangmacuo 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 Early Carboniferous magmatic rocks of gangmacuo, 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 existence of low oxygen magma and its accretion history in the early intraoceanic arc of Qiangtang paleoTethys ocean are identified.

2、Keywords

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

3、Data details

1.Scale：None

2.Projection：

3.Filesize：1.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：34.2 | - |
| west：84.5 | - | east：85.5 |
| - | south：33.1 | - |

5、Time frame:None--None

6、Reference method

References to data:

DAN Wei. Geochronology and geochemical data of Gangmacuo Late Devonian magmatic rocks in Qiangtang, Tibet. A Big Earth Data Platform for Three Poles, 2021

References to articles:

Dan., W., Wang, Q., Li, X.H., Tang, G.J., Zhang C., Zhang, X.Z, & Wang, J. (2019). Low δ18O magmas in the Carboniferous intra-oceanic arc, central Tibet: Implications for felsic magma generation and oceanic arc accretion. Lithos 326-327, 28-38.

7、Supporting project information

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

8、Data resource provider

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