A Big Earth Data Platform for Three Poles

**Geochemical data of Early Cretaceous (~ 110mA) intermediate acid magmatic rocks in Xinji Township, bange County, Qinghai Tibet Plateau**

1、Description

This data set contains zircon U-Pb dating, zircon Hf isotope, whole-rock principal, and trace element data of diorite granite and andesite dacite in Xinjiang area, south of bango, Qinghai Tibet Plateau. The data results are from the Zhai Qingguo research team, Institute of Geology, Chinese Academy of Geological Sciences. The data are of good quality and can be used to study the ocean closure process of Bangong Lake Nujiang suture in the central Qinghai Tibet Plateau, the subsequent collision process of Lhasa Qiangtang block, magmatism, and the Cretaceous crustal regeneration and reconstruction of Lhasa block in the central and Northern Qinghai Tibet Plateau. At the same time, this data also provides zircon CL images and reflection photos of all samples, zircon location for reference and comparison, and also provides a basis for the chronology of magmatic rocks and zircon genesis in the study area at the same time.
Zircon U-Pb age instrument: obtained from laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS), zircon Hf isotope instrument: Neptune multi-collector inductively coupled plasma mass spectrometry (MC – ICP – MS), connected by a goals-193 laser ablation system. The main and trace elements of the whole rock are measured by the National Experimental Center (Academy of Geosciences), Major elements: (XRF; Axios – pw4400), trace elements: ICP-MS; PerkinElmer NexION 300D。

2、Keywords

Theme：Meso-Tethys Ocean,Plates collision,Rocks/Minerals,U-Pb dating,Bangong-Nujiang suture zone,Geochemistry,Tectonics,igneous rocks,Whole-rock major and trace element
Discipline：Solid earth
Places：Tibetan Plateau, Bangong-Nujiang suture zone, Zangbei Lake area
Time：Cretaceous

3、Data details

1.Scale：50000

2.Projection：

3.Filesize：190.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：31.5 | - |
| west：89.5 | - | east：90.5 |
| - | south：30.5 | - |

5、Time frame:2019-12-31 16:00:00+00:00--2020-12-30 16:00:00+00:00

6、Reference method

References to data:

WANG Wei. Geochemical data of Early Cretaceous (~ 110mA) intermediate acid magmatic rocks in Xinji Township, bange County, Qinghai Tibet Plateau. A Big Earth Data Platform for Three Poles, doi:10.1016/j.lithos.2020.1058632021

References to articles:

Wang, W., Zhai, Q.G., Hu, P.Y., Chung, S.L., Tang, Y., Wang, H.T., Zhu, Z.C., Wu, H., & Huang, Z.Q. (2020). Simultaneous growth and reworking of the Lhasa basement: A case study from Early Cretaceous magmatism in the north-central Tibet. Lithos, 380-381, 105863.

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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