A Big Earth Data Platform for Three Poles

**Whole rock major and trace and zircon U-Pb isotope data set of the Mesozoic sedimentary rocks in the Tengchong and Baoshan blocks**

1、Description

This data set includes major and trace elements and zircon U-Pb isotope data of Mesozoic sedimentary rocks in Baoshan block, Tengchong, Yunnan Province. The sampling time is 2018, and the area is near lameng Town, Baoshan District, Tengchong, Yunnan. The rock samples include 8 sedimentary rock samples. This data provides key information for understanding the evolution of the middle Tethys structure between Tengchong and Baoshan, and limits the closing time of the middle Tethys ocean to the late Jurassic, which is of great significance for discussing the evolution process of the Tethys structure. The whole rock major and trace elements of rock samples were tested by fluorescence spectrometer (XRF) and plasma mass spectrometer (ICP-MS), and zircon U-Pb was dated by laser ablation plasma mass spectrometer (LA-ICP-MS). The testing units include Institute of Geology and Geophysics, Chinese Academy of Sciences and Institute of Qinghai Tibet Plateau. The related articles of this data set have been published in the Journal of Asian Earth Sciences, and the data results are true and reliable.

2、Keywords

Theme：Formation,Tectonics
Discipline：Solid earth
Places：Yunnan, Baoshan, Tengchong
Time：Mesozoic

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.02MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：24.75 | - |
| west：98.25 | - | east：99.0 |
| - | south：24.16 | - |

5、Time frame:None--None

6、Reference method

References to data:

ZHANG Jiuyuan . Whole rock major and trace and zircon U-Pb isotope data set of the Mesozoic sedimentary rocks in the Tengchong and Baoshan blocks. A Big Earth Data Platform for Three Poles, doi:10.1016/j.jseaes.2021.1049442022

References to articles:

Zhang, J.Y., Fan, W.M., Peng, T.P., & Ratschbacher, L. (2021). Southeastern continuation of the Bangong-Nujiang suture zone: Constraints from Middle Jurassic–Early Cretaceous sedimentary rocks in the western Baoshan block, SW China. Journal of Asian Earth Sciences, 221, 104944.

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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