A Big Earth Data Platform for Three Poles

**40Ar-39Ar age data set of biotite from Xuefengshan, South China (240 Ma-80 Ma)**

1、Description

The data are 40Ar-39Ar ages of biotite from the Miaoershan dome in Xuefeng mountain, South China. Mica schist was collected in the field, and then the rock samples were cleaned and crushed, and then biotite particles were selected by hand under the binocular microscope. The experiments were carried out in 40Ar / 39Ar and U-Th / he laboratories of the Key Laboratory of Geology and Geophysics, Institute of Geology and Geophysics, Chinese Academy of Sciences. Firstly, the high-resolution 40Ar / 39Ar of mm5400 mass spectrometer was measured, and then the original data was further processed by the plug-in ararcalc of Excel software. The data provide chronological support for the collapse process and dynamic mechanism of Triassic Xuefengshan plateau.  
The above data have been published in Tectonophysics, and the data are true and reliable.

2、Keywords

Theme：Tectonics,plate tectonics  
Discipline：Solid earth  
Places：Xuefengshan, South China  
Time：240 Ma-80 Ma

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.05MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：28.0 | - |
| west：110.0 | - | east：111.5 |
| - | south：26.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

CHU Yang. 40Ar-39Ar age data set of biotite from Xuefengshan, South China (240 Ma-80 Ma). A Big Earth Data Platform for Three Poles, doi:org/10.1016/j.tecto.2020.2285922021

References to articles:

Chu, Y., Lin, W., Faure, M., Allen, M. B., Feng, Z. T. (2020). Cretaceous exhumation of the Triassic intracontinental Xuefengshan Belt: Delayed unroofing of an orogenic plateau across the South China Block? Tectonophysics, 793, 228592.

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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