A Big Earth Data Platform for Three Poles

**Geochronology and mineral isotope data set of felsic to basic granulites in southeastern margin of North China**

1、Description

The data are the radioactive isotope dating data, mineral isotope composition data and seismic wave velocity data of metamorphic rocks in the lower crust. The samples were collected from Cenozoic basalts and felsic granulite, neutral granulite and basic granulite xenoliths in Nushan area, Anhui Province, southeastern North China Craton. The U-Pb isotopic data were obtained by laser ablation inductively coupled plasma mass spectrometry. The data of mineral isotopic composition were obtained by laser ablation inductively coupled plasma mass spectrometry. Rock seismic wave data are estimated by binocular lens and calculated by empirical formula. The obtained data reconstruct the fine structure and evolution of the lower crust in the southeastern margin of North China.

2、Keywords

Theme：zircon,Crustal structure,Rocks/Minerals,Geochemistry,Seismic body waves,Zircon Hf isotope,Seismology,Ziron U-Pb dating  
Discipline：Solid earth  
Places：Anhui Nvshan, North China craton  
Time：Mesozoic, Paleoproterozoic, Archean

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.05MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：33.0 | - |
| west：117.0 | - | east：119.0 |
| - | south：32.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

PING Xianquan. Geochronology and mineral isotope data set of felsic to basic granulites in southeastern margin of North China. A Big Earth Data Platform for Three Poles, doi:10.1016/j.tecto.2018.11.0122021

References to articles:

Ping, X.Q., Zheng, J.P., Xiong, Q., Griffin, W.L., Yu, C.M., & Su, Y.P. (2019). Downward rejuvenation of the continental lower crust beneath the southeastern North China Craton. Tectonophysics, 750, 213-228.

7、Supporting project information

The deep process and resource effect of major geological events in Yanshan period (2016YFC0600400)

8、Data resource provider

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