A Big Earth Data Platform for Three Poles

**Sims isotopic chronology of early Mesozoic strata in Yanshan tectonic belt (230-225ma)**

1、Description

This data belongs to zircon U-Pb geochronology data of early Mesozoic strata in Yanshan tectonic belt, including Pb, 232Th, 238U contents, 207Pb / 206Pb, 207Pb / 235U, 206Pb / 238U ratios and errors, 207Pb / 235U, 206Pb / 238U ages and errors, etc. Zircon U-Pb dating was performed in the ion probe Laboratory of Institute of Geology and Geophysics, Chinese Academy of Sciences using cameca ims-1280hr. The U-Th-Pb isotopic ratios were determined by standard zircon pl é Sovice correction was achieved. The U content was obtained by standard zircon 91500 correction. Simultaneous interpreting of the standard deviation and the internal accuracy of the single point test was achieved by the standard sample of long term monitoring, and the single point error was obtained. The accuracy of the standard sample Qinghu was used as the unknown sample monitoring data. The measured 204Pb value is used for ordinary Pb correction. The error of isotope ratio and age is 1 σ。 The harmonious age and average age were calculated by using the isoplot software. The results of geochronology data are published in Earth Science Reviews. The data quality is reliable. It plays an important role in establishing the early Cenozoic geochronology framework and regional stratigraphic correlation of Yanshan structural belt, and lays a foundation for further analysis of Mesozoic basin evolution history, which has a good application prospect.

2、Keywords

Theme：Tectonics,plate tectonics,Basin tectonics
Discipline：Solid earth
Places：Yanshan belt
Time：Early Mesozoic

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.0298MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：45.0 | - |
| west：110.0 | - | east：120.0 |
| - | south：40.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

WU Guoli. Sims isotopic chronology of early Mesozoic strata in Yanshan tectonic belt (230-225ma). A Big Earth Data Platform for Three Poles, doi:10.11888/Geo.tpdc.2715622021

References to articles:

Meng, Q.R., Wu, G.L., Fan, L.G., & Wei, H.H. (2019). Tectonic evolution of early mesozoic sedimentary basins in the north china block. EARTH SCIENCE REVIEWS.

7、Supporting project information

Deep processes and resource effects of major geological events during the Yan Mountains period

8、Data resource provider

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