A Big Earth Data Platform for Three Poles

**Geochemical data set of Paleozoic mafic intrusive rocks in Xilinhot area, Inner Mongolia, China**

1、Description

This data set includes the whole rock major and trace element geochemical data and zircon U-Pb isotope data of the Carboniferous Permian mafic intrusive rocks in Xilinhot area. The major element data of the whole rock are obtained by XRF, the trace element data of the whole rock are obtained by ICP-MS, and the zircon U-Pb isotope data are obtained by la-icp-ms. This set of data has been published in Acta Geologica Sinica (English Edition), a geoscience SCI journal. Through the analysis of this set of data, the characteristics of magma source area and regional tectonic evolution history can be effectively constrained.

2、Keywords

Theme：Rocks/Minerals,Geochemistry,Tectonics,igneous rocks,Plate subduction,Ziron U-Pb dating
Discipline：Solid earth
Places：Xilinhot
Time：Carboniferous to Permian

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.06MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：44.0 | - |
| west：115.5 | - | east：117.0 |
| - | south：43.5 | - |

5、Time frame:None--None

6、Reference method

References to data:

LI Yilong, WANG Ke. Geochemical data set of Paleozoic mafic intrusive rocks in Xilinhot area, Inner Mongolia, China. A Big Earth Data Platform for Three Poles, doi:10.1111/1755-6724.143862021

References to articles:

Wang, K., Li, Y.L., Xiao, W.J., Zheng, J.P., Brouwer, F.M. (2019). Zircon U-Pb Ages and Geochemistry of Permo-Carboniferous Mafic Intrusions in the Xilinhot Area, Inner Mongolia: Constraints on the Northward Subduction of
the Paleo-Asian Ocean. Acta Geologica Sinica (English Edition), 93(05), 1261-1280.

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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