A Big Earth Data Platform for Three Poles

**Cu isotopic data of peridotites in the Italian Alps**

1、Description

This data set mainly includes Cu isotopic analysis of orogenic peridotites from the everea Alps, Italy, in balmucha and baltisa. Cu isotopic data were obtained by MC-ICPMS after acid digestion and ion exchange resin separation of whole rock samples. The whole rock sample was crushed to less than 200 mesh without pollution, and the powder was digested by acid and separated by ion exchange resin. Then the copper isotope was tested by MC-ICPMS. The international standard samples were selected to monitor the test data. The data quality has reached the international first-class level. The results provide important information for the Cu isotopic composition of peridotite reservoirs.

2、Keywords

Theme：magma,Rocks/Minerals,Geochemistry,igneous rocks,Geologic Hazard,Isotopic geochemistry  
Discipline：Solid earth  
Places：Italian Alps  
Time：210 Ma

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.014MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：45.52 | - |
| west：7.54 | - | east：8.21 |
| - | south：44.45 | - |

5、Time frame:None--None

6、Reference method

References to data:

Cu isotopic data of peridotites in the Italian Alps. A Big Earth Data Platform for Three Poles, 2021

References to articles:

Huang, J., Huang, F., Wang, Z., Zhang, X., & Yu, H. (2017). Copper isotope fractionation during partial melting and melt percolation in the upper mantle: Evidence from massif peridotites in Ivrea-Verbano Zone, Italian Alps. Geochimica et Cosmochimica Acta, 211, 48-63.

7、Supporting project information

8、Data resource provider