A Big Earth Data Platform for Three Poles

**Data set of trace elements, sulfur and lead isotopes in KEKETALE lead zinc deposit**

1、Description

The influence of deformation and metamorphism of post volcanic massive sulfide on the trace elements and sulfur lead isotopic composition of sulfide is still unclear. The Keketale VMS Pb Zn (- Ag) deposit provides an opportunity to solve the above problems; Five ore samples from No.7 and No.9 orebodies were crushed and screened for lead isotope analysis of bulk minerals, 17 polished thick sulfide samples were used for in-situ trace element and sulfur lead isotope analysis, 66 trace element determination points were analyzed, and 25 sulfur isotope points were determined; A total of 18 point pairs of different minerals were selected for lead isotope analysis, and LA-ICP-MS method was used

2、Keywords

Theme：Trace elements,Rocks/Minerals,Metal mineral,Geochemistry,Mineral Resources,Paleoclimate Reconstruction
Discipline：Human-nature Relationship,Palaeoenvironment,Solid earth
Places：Keketale
Time：2020 year

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.028MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：50.0 | - |
| west：85.0 | - | east：90.0 |
| - | south：45.0 | - |

5、Time frame:2020-06-30 16:00:00+00:00--2022-06-30 16:00:00+00:00

6、Reference method

References to data:

ZHENG Yi, YU Pengpeng. Data set of trace elements, sulfur and lead isotopes in KEKETALE lead zinc deposit. A Big Earth Data Platform for Three Poles, doi:10.1016/j.oregeorev.2020.1036852021

References to articles:

Yu, P.P., Zheng, Y., Wang, C.M. (2020). Trace elemental and sulfur-lead isotopic variations in metamorphosed volcanogenic massive sulfide (VMS) mineralization systems: An example from the Keketale Pb-Zn(-Ag) deposit, NW China. Ore Geology Reviews,125, 103685.

7、Supporting project information

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

8、Data resource provider

name: YU Pengpeng
unit:
email: zhengy43@mail.sysu.edu.cn

name: ZHENG Yi
unit:
email: zhengy43@mail.sysu.edu.cn