A Big Earth Data Platform for Three Poles

**Geodynamic evolution model of Cu-Mo polymetallic granodiorite (porphyry) in the Chizhou area**

1、Description

The data include: a brief introduction of the geodynamic evolution model of the formation of Cu Mo polymetallic granodiorite (porphyry) in Chizhou area. The changes of geological structure before and after 150mA in Chizhou area, as well as the changes of influence on metallogenic model, are shown in the figure. At 150 mA, Chizhou area was affected by the inversion of the paleo Pacific plate, forming an arc rift environment without marine sediments. The fluid released from the plate melted the mantle wedge material, produced a high oxygen fugacity environment, formed chlorine rich fluid and mixed mantle crust magma, promoted the extraction and migration of metals, and finally formed the copper molybdenum polymetallic deposit in Chizhou area.
The above data have been published in SCI high-level journals, and the data are true and reliable. The data is stored in JPG format.

2、Keywords

Theme：Rocks/Minerals,Geochemistry,Tectonics,ridge subduction,igneous rocks,Isotopic geochemistry
Discipline：Solid earth
Places：Chizhou, Lower Yangtze River Belt
Time：Jurassic

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.59MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：30.67 | - |
| west：117.33 | - | east：117.67 |
| - | south：30.33 | - |

5、Time frame:None--None

6、Reference method

References to data:

XIE Jiancheng. Geodynamic evolution model of Cu-Mo polymetallic granodiorite (porphyry) in the Chizhou area. A Big Earth Data Platform for Three Poles, doi:10.1016/j.oregeorev.2019.04.0182021

References to articles:

Jx, A., Dt, A., Dx, A., Yu, W.A., Ql, A., & Xy, B., et al. (2019). Geochronological and geochemical constraints on the formation of chizhou cu-mo polymetallic deposits, middle and lower yangtze metallogenic belt, eastern china. Ore Geology Reviews, 109, 322-347.

7、Supporting project information

The deep process and resource effect of major geological events in Yanshan period

8、Data resource provider

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