A Big Earth Data Platform for Three Poles

**Beiya deep prospecting target area**

1、Description

Combining the revealed shallow geological and deep geophysical data in three-dimensional space for deep prediction can not only deepen the shallow understanding, but also reduce the problems caused by the multi solution of geophysics. It has become a new trend and important means of deep metallogenic prediction Taking the Wandongshan ore section of Beiya gold deposit as an example, the three-dimensional geological model of Wandongshan ore section is established in the three-dimensional modeling platform by collecting the data of drilling, exploration line section, geochemical exploration and geophysics; Based on the modeling results and integrating the surface, shallow and deep gravity data, the metallogenic geological conditions and deep metallogenic potential are studied and analyzed. Three metallogenic favorable elements of concealed fault, porphyry body and qingtianbao formation sandstone are selected, and the three-dimensional body model of metallogenic favorable area (sgrid) is established accordingly On this basis, the multi-source information synthesis method is adopted to collect the favorable metallogenic areas of three metallogenic control elements, and the deep target area within 1100 ~ 900 m above sea level in Wandongshan ore section is delineated, which provides a reference for the prediction of the deep target area of the surrounding same type of ore section

2、Keywords

Theme：Others,Rocks/Minerals,3D modeling,Metallogenic potential,Deep target area
Discipline：Others,Solid earth
Places：Tibet, Beiya
Time：None

3、Data details

1.Scale：None

2.Projection：

3.Filesize：2.22MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：26.18 | - |
| west：100.18 | - | east：100.2 |
| - | south：26.14 | - |

5、Time frame:2018-06-30 16:00:00+00:00--2021-08-14 16:00:00+00:00

6、Reference method

References to data:

WANG Liqiang , ZHOU Fang . Beiya deep prospecting target area. A Big Earth Data Platform for Three Poles, doi:10.11888/SolidEar.tpdc.2720582022

References to articles:

周放, 王保弟, 贺娟, 等. (2020). 三维综合信息分析圈定北衙金矿床深部靶区. 地球科学, 45(8), 3028-3039.

7、Supporting project information

Mineralization systems of important ore deposits and integrated demonstration of prospecting and exploration technology

8、Data resource provider

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