A Big Earth Data Platform for Three Poles

**Moho depth and VP / VS in Cathaysia Block**

1、Description

The data set is mainly shown in the article https://doi.org/10.1016/j.pepi.2019.04.003 The study includes the distribution of the average thickness of the crust and the average velocity ratio of the crust obtained by stacking the P-wave receiver function h-kappa-c of stations in Cathaysia Block.  
The dataset contains one file in DAT format: Cathaysia\_ moho\_ vpvs.dat。  
The data set can be used to show the undulation characteristics of Moho in the Cathaysia Block, to see the transverse distribution characteristics of crustal thickness and crustal wave velocity ratio in the Cathaysia Block, and to explore the difference of average crustal composition in the Cathaysia Block.

2、Keywords

Theme：Average crustal thickness,Receiver function,Vp/Vs ratio,Seismology  
Discipline：Solid earth  
Places：Cathaysia Block  
Time：2019

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.01MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：28.0 | - |
| west：108.0 | - | east：128.0 |
| - | south：20.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

DENG Yangfan. Moho depth and VP / VS in Cathaysia Block. A Big Earth Data Platform for Three Poles, doi:10.11888/Geogra.tpdc.2714202021

References to articles:

Deng, Y., Li, J., Peng, T., Ma, Q., Song, X., Sun, X., ... & Fan, W. (2019). Lithospheric structure in the Cathaysia block (South China) and its implication for the late Mesozoic magmatism. Physics of the Earth and Planetary Interiors, 291, 24-34.

7、Supporting project information

The deep process and resource effect of major geological events in Yanshan period (2016YFC0600400)

8、Data resource provider

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