A Big Earth Data Platform for Three Poles

**Direct P-wave records of portable seismic array in the southeastern Iranian plateau（2017.03-2018.9）**

1、Description

Seismic observations can be used to constrain the seismic velocity structures and deformation patterns of the crust and upper mantle. The southeastern Iranian plateau is the transitional zone from subduction to collision. The study of this region can provide an important basis for understanding the dynamic progresses of the plate convergence and associated tectonic responses. The data comes from the portable seismic array deployed by this research group. The site selection requirements are strict. All stations are equipped with Trillium 120PA seismometer (120 s-175 Hz) and Taurus digital collector. This data set is the waveform data from the first 100 s to the last 200 s of the direct P wave. Event magnitudes are greater than or equal to 5.0, and epicenter distances range from 30° to 90°. The data can be used to decipher the deep dynamic processes of the subduction-collision transition zone.

2、Keywords

Theme：Crust mantle structure,Seismology,Direct P wave  
Discipline：Solid earth  
Places：Southeast edge of Iran  
Time：2017-2018

3、Data details

1.Scale：None

2.Projection：

3.Filesize：420.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：31.0 | - |
| west：55.0 | - | east：60.0 |
| - | south：25.0 | - |

5、Time frame:2017-02-28 16:00:00+00:00--2018-09-29 16:00:00+00:00

6、Reference method

References to data:

CHEN Ling. Direct P-wave records of portable seismic array in the southeastern Iranian plateau（2017.03-2018.9）. A Big Earth Data Platform for Three Poles, doi:10.11888/Geo.tpdc.2712902021

References to articles:

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program

8、Data resource provider

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