A Big Earth Data Platform for Three Poles

**The hypocentre parameters of intermediate- and deep-focus earthquakes in the Pamir-Hindu Kush Region (1964-2011)**

1、Description

The data set describes the hypocentre parameters of intermediate- and deep-focus earthquakes in the Pamir-Hindu Kush region from 1964 to 2011. The earthquake relocation results clarified the complex deformation characteristics of underground structures in the deep subduction area in the Pamir-Xindu Kush region. The seismic waveform data are from the IRIS website (http://ds.iris.edu/wilber3/find\_event), and the arrival time data are from the ISC website (http://www.isc.ac.uk/) and the CEDC website (http:// Data.earthquake.cn/data/index.jsp?id=11number=9). Seismic location was determined using the teleseismic waveform fitting and the multi-scale double-difference (Multi-DD) method developed in this study. The errors in latitude and longitude data are approximately ±7 km and ±7 km, respectively.

Origin Time: yyyy (year), mm (month), dd (day), hh (hour), mm (minute), ss.ss (second)
Earthquake Magnitude: Magnitude (from the ISC seismic catalogue)
Earthquake Location: Latitude, Longitude, Depth
Hypocentre determination method: Hypocentres marked with an "F" were determined by the waveform fitting method

2、Keywords

Theme：Natural Disaster,Earthquakes
Discipline：Human-nature Relationship
Places：Pamir-Hindu Kush
Time：1964-2011

3、Data details

1.Scale：None

2.Projection：

3.Filesize：1.0MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.0 | - |
| west：73.0 | - | east：104.0 |
| - | south：28.0 | - |

5、Time frame:1964-01-07 08:00:00+00:00--2011-09-04 08:00:00+00:00

6、Reference method

References to data:

BAI Ling. The hypocentre parameters of intermediate- and deep-focus earthquakes in the Pamir-Hindu Kush Region (1964-2011). A Big Earth Data Platform for Three Poles, doi:10.11888/Geophysics.tpe.249422.db2018

References to articles:

Bai, L., &Zhang, T.Z. (2015). Complex deformation pattern of the Pamir-Hindu Kush region inferred from multi-scale double-difference earthquake relocations. Tectonophysics, 638, 177-184.

7、Supporting project information

8、Data resource provider

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