A Big Earth Data Platform for Three Poles

**Seismotectonic Map and Seismic Hazard Zonation Map of Central Asia (1960-2020)**

1、Description

We compiled the Seismotectonic Map and Seismic Hazard Zonation Map of Central Asia using the ArcGIS platform through data collecting and digitization. The seismotectonic map of Western Asia covers Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan and Turkmenistan. The seismotectonic map is replenished with tremendous amount published data and depicts the location, character and name of the seismogenic faults or active faults and the epicenter of earthquakes with M ≥ 5 from 1960 to 2010. The zonation map shows the mean values of peak ground acceleration (PGA) with 10% probability of being exceeded in 50 years. The two maps can not only be used in the research of active faults and seismic risks in Central Asia, but also will be applied to the seismic safety evaluation for infrastructure construction.

2、Keywords

Theme：Seismology,Earthquake risk,Seismotectonic
Discipline：Solid earth
Places：Central Asia
Time：1960-2020

3、Data details

1.Scale：None

2.Projection：

3.Filesize：230.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：55.0 | - |
| west：45.0 | - | east：87.5 |
| - | south：35.0 | - |

5、Time frame:1959-12-31 16:00:00+00:00--2020-12-30 16:00:00+00:00

6、Reference method

References to data:

LUO Hao. Seismotectonic Map and Seismic Hazard Zonation Map of Central Asia (1960-2020). A Big Earth Data Platform for Three Poles, doi:10.11888/Disas.tpdc.2713012021

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

name: LUO Hao
unit: China Earthquake Disaster Prevention Center
email: Hy-luo@163.com