A Big Earth Data Platform for Three Poles

**Seismic Zonation Map of Western Asia (1960-2019)**

1、Description

We compiled the Seismic Zonation Map of Western Asia using the ArcGIS platform through data collecting and digitization. The Seismic Zonation map of Western Asia covers Iran and its surrounding countries and regions. Based on the “Major active faults of Iran” map, the map is replenished with massive published data and depicts the location and nature of the seisogenic faults or active faults and the epicenter of earthquakes with M ≥ 5 from 1960 to 2019. 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 Western Asia, but also will be applied to the seismic safety evaluation for infrastructure construction.

2、Keywords

Theme：Natural Disaster,Seismology,Seismotectonic,Earthquakes  
Discipline：Human-nature Relationship,Solid earth  
Places：Pan-third pole  
Time：Nearly 50 years

3、Data details

1.Scale：None

2.Projection：

3.Filesize：83.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：40.0 | - |
| west：45.0 | - | east：65.0 |
| - | south：25.0 | - |

5、Time frame:1960-01-07 08:00:00+00:00--2020-01-06 08:00:00+00:00

6、Reference method

References to data:

LIU Zhicheng. Seismic Zonation Map of Western Asia (1960-2019). A Big Earth Data Platform for Three Poles, 2020

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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