A Big Earth Data Platform for Three Poles

**Seismotectonic Map and Seismic Hazard Zonation Map of South Asia （1960-2021）**

1、Description

We compiled the Seismotectonic Map and Seismic Hazard Zonation Map of South Asia using the ArcGIS platform through data collecting and digitization. The seismotectonic map of South Asia covers India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka. 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 2021. 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 South 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：South Asia
Time：1960-2021

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：263.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.27 | - |
| west：59.56 | - | east：99.07 |
| - | south：-1.91 | - |

5、Time frame:None--None

6、Reference method

References to data:

CHENG Li . Seismotectonic Map and Seismic Hazard Zonation Map of South Asia （1960-2021）. A Big Earth Data Platform for Three Poles, doi:10.11888/SolidEar.tpdc.2728282022

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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