A Big Earth Data Platform for Three Poles

**Catalog of destructive earthquakes on the Tibet Plateau since historical records. (-326~2021)**

1、Description

The Tibetan Plateau region has strong seismic activity, which is driven by the subduction collision between the Indian plate and the Eurasian plate and the internal deformation of the plateau. A total of 5030 earthquakes of magnitude M≥5.0 have occurred on the Tibetan Plateau and surrounding areas (20-40°N, 70-105°E) . Historical records since the present ( December 2021), including 20 earthquakes of magnitude M≥8, 154 earthquakes of magnitude M=7.0-7.9, 913 earthquakes of magnitude M=6.0-6.9, and 3943 earthquakes of magnitude M=5.0-5.9. The earthquakes occurred mainly along the large faults zones around and within the Tibetan Plateau.

2、Keywords

Theme：Earthquake catalogue,Seismology,Earthquake risk,Seismotectonic
Discipline：Solid earth
Places：Tibetan Plateau
Time：Historic Earthquakes

3、Data details

1.Scale：None

2.Projection：

3.Filesize：2.1MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：40.0 | - |
| west：70.0 | - | east：105.0 |
| - | south：20.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

WANG Ji. Catalog of destructive earthquakes on the Tibet Plateau since historical records. (-326~2021). A Big Earth Data Platform for Three Poles, doi:10.11888/SolidEar.tpdc.2728272022

References to articles:

宋治平, 张国民, 刘杰, 尹继尧, 薛艳, 宋先月. (2011). 全球地震目录, 北京：地震出版社

中国地震台网统一地震目录（http://data.earthquake.cn/index.html）

美国USGS地震目录（https://earthquake.usgs.gov/earthquakes/search/）

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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