A Big Earth Data Platform for Three Poles

**Hengduan Mountain Area (Sichuan-Tibet railway) natural disaster risk and comprehensive risk assessment data set (2020)**

1、Description

Based on China's daily ground meteorological elements data set, national geographic basic data, demographic data, and 30M resolution DEM data, statistical yearbook data, historical disaster records, and other related data, using multi-methods like PCA, random forests to calculate hazard and vulnerability indicators, based on extreme precipitation，high temperature, flood, snow hazard, collapse and landslide hazards, to build comprehensive disaster risk index, and process them with normalization. Among them, we consider all the above disaster types in Hengduan Mountain area, and flood, snow disaster, collapse and landslide disaster in sichuan-tibet railway. The natural disasters hazard map, vulnerability map and comprehensive risk map of Hengduan Mountains (Sichuan-Tibet Railway) are included in the dataset.

2、Keywords

Theme：Extreme drought,Snow disaster,Geological hazards,Natural Disaster,Heat wave,Comprehensive disaster risk,Flood
Discipline：Human-nature Relationship
Places：hengduan mountain area, Sichuan Tibet Railway
Time：2020

3、Data details

1.Scale：None

2.Projection：GCS\_China\_Geodetic\_Coordinate\_System\_2000

3.Filesize：247.04MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：34.09 | - |
| west：93.65 | - | east：104.65 |
| - | south：21.69 | - |

5、Time frame:2019-12-31 16:00:00+00:00--2020-12-30 16:00:00+00:00

6、Reference method

References to data:

ZHOU Qiang, YUAN Ruyue, ZHAO Jiaqi, ZHANG Qiang, WU Wenhuan. Hengduan Mountain Area (Sichuan-Tibet railway) natural disaster risk and comprehensive risk assessment data set (2020). A Big Earth Data Platform for Three Poles, doi:10.11888/Disas.tpdc.2714712021

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

name: ZHOU Qiang
unit:
email: 598416603@qq.com

name: ZHAO Jiaqi
unit:
email: 201931051089@mail.bnu.edu.cn

name: YUAN Ruyue
unit:
email: yuanry@mail.bnu.edu.cn

name: ZHANG Qiang
unit: Beijing Normal University
email: zhangq68@mail.bnu.edu.cn

name: WU Wenhuan
unit:
email: