A Big Earth Data Platform for Three Poles

**Spatial distribution data set of extreme precipitation hazard (2020)**

1、Description

Based on the global surface water data (wod) from 1984 to 2018, the extreme precipitation frequency index and extreme precipitation intensity index were selected. Combined with the spatial analysis method in ArcGIS, the risk level of flood disaster in 34 key nodes under extreme precipitation conditions was constructed and evaluated. One belt, one road, 34 key nodes, is evaluated for the risk of flooding in the key areas of the "one belt" Road area under extreme precipitation events, which provides a basis for local government departments to make decisions and early warning before floods occur, so that we can gain valuable time for disaster prevention and mitigation measures to reduce the lives of the people brought by floods. Loss of property.

2、Keywords

Theme：Extreme Precipitation,Natural Disaster
Discipline：Human-nature Relationship
Places：Important nodes in the One Belt And One Road region
Time：2020

3、Data details

1.Scale：1000

2.Projection：WGS84

3.Filesize：2046.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：50.0 | - |
| west：180.0 | - | east：-180.0 |
| - | south：-50.0 | - |

5、Time frame:2015-05-31 16:00:00+00:00--2020-12-22 16:00:00+00:00

6、Reference method

References to data:

GE Yong, LI Qiangzi, LI Yi. Spatial distribution data set of extreme precipitation hazard (2020). A Big Earth Data Platform for Three Poles, 2020

References to articles:

Ma, Z.Q., Xu, J.T., Zhu, S.Y., Yang, J., Tang, G.Q., Yang, Y.J., Shi, Z., and Hong, Y. (2020). AIMERG: a new Asian precipitation dataset (0.1°/half-hourly, 2000–2015) by calibrating the GPM-era IMERG at a daily scale using APHRODITE, Earth Syst. Sci. Data, 12, 1525–1544, https://doi.org/10.5194/essd-12-1525-2020.

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: GE Yong
unit: Institute of Geographic Sciences and Natural Resources Research, CAS
email: gey@lreis.ac.cn

name: LI Yi
unit: Institute of Remote Sensing and Digital Earth
email: liyi@radi.ac.cn

name: LI Qiangzi
unit:
email: liqz@aircas.ac.cn