A Big Earth Data Platform for Three Poles

**Vulnerability assessment data set of extreme precipitation disaster (2019)**

1、Description

Vulnerability assessment dataset of hectometre level for 34 key nodes assessment the flood risk of key nodes in the Belt and Road under the extreme precipitation events, in order to provide basis for decision-making for the local government department, at the same time before flood disaster early warning, which may take the disaster prevention and mitigation measures for the precious time, reduce people's lives and property damage brought by the flood. Based on the data of GDP, population, land ues, road density and river density in the Belt and Road, this dataset combined with the methods of spatial analysis of ArcGIS, assigning different weights to each indicator and building assessment 34 key nodes under the condition of extreme precipitation in flood vulnerability level, which was divided into 5 levels by using natural break point method, representing no vulnerability, low vulnerability, middle vulnerability, high vulnerability, extreme high vulnerability, respectively.

2、Keywords

Theme：Atmospheric remote sensing products,Precipitation,Precipitation amount,Atmosphere Remote Sensing  
Discipline：Atmosphere  
Places：Pan-Third Pole  
Time：2019

3、Data details

1.Scale：11100

2.Projection：

3.Filesize：4383.0MB

4.Data format：None

4、Space scope

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

5、Time frame:2014-09-21 08:00:00+00:00--2019-01-09 19:59:59+00:00

6、Reference method

References to data:

GE Yong, LI Qiangzi, LI Yi. Vulnerability assessment data set of extreme precipitation disaster (2019). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2704252020

References to articles:

Goddard Earth Sciences Data and Information Services Center.George Huffman. Daily GPM and Others Rainfall Estimate (GPM\_3IMERGDF). 2014.3.12-2018.6.30

7、Supporting project information

8、Data resource provider

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