A Big Earth Data Platform for Three Poles

**Storm Surge Hazard spatial distribution data set (2018)**

1、Description

On the basis of the global tropical cyclone track dataset, the global disaster events and losses dataset, the global tide level observation dataset and DEM data, coastline distribution data, land cover information, population and other related data of 34 key nodes, indicators related to the disaster danger of storm surge in each unit are extracted and calculated using handred meters grid as evaluation unit, such as historical intensity of tide level frequency of storm historic arrival, historical loss, distance of offshore line, etc. The comprehensive index of storm surge disaster danger is constructed, and the danger index of storm surge is obtained by using the weighted method. Finally, the storm surge danger index is normalized to 0-1, which can be used to evaluate the danger level of storm surge in each assessment unit. The key nodes data set only contains 11 nodes which have risks.

2、Keywords

Theme：Meteorological hazards,Natural Disaster  
Discipline：Atmosphere,Human-nature Relationship  
Places：Pan-Third Pole  
Time：2018

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：4085.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：82.0 | - |
| west：12.0 | - | east：180.0 |
| - | south：-11.0 | - |

5、Time frame:2018-01-10 00:00:00+00:00--2019-01-09 00:00:00+00:00

6、Reference method

References to data:

GE Yong, LI Qiangzi, DONG Wen. Storm Surge Hazard spatial distribution data set (2018). A Big Earth Data Platform for Three Poles, doi:10.11888/Disas.tpdc.2704142020

References to articles:

7、Supporting project information

8、Data resource provider

name: DONG Wen  
unit:   
email: dongwen01@radi.ac.cn  
  
name: GE Yong  
unit: Institute of Geographic Sciences and Natural Resources Research, CAS  
email: gey@lreis.ac.cn  
  
name: LI Qiangzi  
unit:   
email: liqz@aircas.ac.cn