A Big Earth Data Platform for Three Poles

**Vulnerability assessment map of disaster bearing bodies in Asian water tower area and Himalaya region (2021)**

1、Description

Vulnerability of disaster bearing body is the degree of damage that human social and economic activities may suffer under the disturbance or pressure of natural disasters under a certain social and economic background, that is, the nature that disaster bearing body is vulnerable to damage and loss in the face of natural disasters. Based on the actual scientific research and expert guidance, this data constructs the vulnerability assessment indicators of disaster bearing bodies from the three aspects of exposure, sensitivity and adaptability, and uses the revised serv vulnerability model to calculate the Himalayan surrounding areas (domestic part) and the Asian water tower area. In order to systematically analyze the vulnerability of disaster bearing bodies in the study area, this data selects indicators from six aspects: population, economy, traffic lines, ecological environment, livestock and buildings, and constructs an indicator system of 6 first-class indicators, 18 second-class indicators and 29 third-class indicators. After the obtained vulnerability assessment results of population, economy, traffic lines, ecological environment, livestock and buildings are normalized, the vulnerability assessment maps of Himalayan surrounding areas (domestic part) and Asian water tower area are obtained by vector superposition.

2、Keywords

Theme：Social and Economic  
Discipline：Human-nature Relationship  
Places：Surrounding areas of Himalaya (domestic part) and Asian water tower area  
Time：2021

3、Data details

1.Scale：None

2.Projection：

3.Filesize：1761.28MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：41.37 | - |
| west：76.18 | - | east：103.64 |
| - | south：26.86 | - |

5、Time frame:None--None

6、Reference method

References to data:

DUAN Yufang , ZHOU Qiang, CHEN Qiong, CHEN Ruishan , NIU Baicheng , XIA Xingsheng , LIU Fenggui, CHEN Yingming . Vulnerability assessment map of disaster bearing bodies in Asian water tower area and Himalaya region (2021). A Big Earth Data Platform for Three Poles, doi:10.11888/HumanNat.tpdc.2724972022

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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