Spatio-temporal Distribution of Earthquake Disaster in the Belt and Road Area in 1998

Data Documentation

I. Dataset/atlas content features
   i. Abstract
      This dataset described the distribution of earthquake disasters in countries along the Belt and Road in 1998, which mainly record the seismic location, earthquake grade, seismic wave coverage and range information. They were collected and organized by the Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences. This dataset was composed of 15 vector files. They could be used to study the occurrence and distribution of earthquake disasters, and provided an important basis for preventing earthquake disasters and reducing the negative impact of earthquake disasters.
   
   ii. Elements (content fields)
      This dataset was named as “Spatio-temporal Distribution of Earthquake Disaster in the Belt and Road Area in 1998”, which included 10 data files. There are mainly 1 data name for different years and they are described as table 1.

<table>
<thead>
<tr>
<th>Data name</th>
<th>Item (field)</th>
<th>Field name in Chinese</th>
<th>Field measure unit</th>
<th>Field code description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earthquake intensity</td>
<td>Level</td>
<td>等级</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   iii. Temporal cover
      1998
   
   iv. Spatial cover
      This dataset covered all countries in the belt and road. Countries involved include Mongolia, Russia, China, Singapore, Indonesia, Malaysia, Thailand, Vietnam, Philippines, Cambodia, Myanmar, Laos, Brunei, East Timor, India, Pakistan, Sri Lanka, Bangladesh, Nepal, Maldives, Bhutan, United Arab Emirates, Kuwait, Turkey, Qatar, Oman, Lebanon, Saudi Arabia, Bahrain, Israel, Yemen, Egypt, Iran, Jordan, Syria, Iraq, Afghanistan, Palestine, Azerbaijan, Georgia, Armenia, Poland, Albania, Slovenia, Bulgaria, Czech Republic, Hungary, Macedonia, Serbia, Romania, Slovakia, Croatia, Bosnia and Herzegovina, Montenegro, Ukraine, Moldova, Kazakhstan, Kyrgyzstan, Turkmenistan, Tajikistan, Uzbekistan.

II. Subject/industry scope of dataset/atlas
   i. Subject scope
      Basic Disaster information
   
   ii. Industry scope
      Environmental and Textile
   
   iii. Other classifications (optional)

III. Accuracy of dataset/atlas
   i. Time frequency
      Monthly
   
   ii. Spatial reference, accuracy, and granularity
      This dataset used the WGS1984 coordinate system with a minimum time interval of one month.
IV. Dataset/atlas storage management

i. Data quantity
The volume of the dataset is 50.2 MB.

ii. Type format
This dataset was stored in hard disk with formats of .shp.

iii. Update management
Unscheduled update.

V. Quality control of the dataset/atlas

i. Production mode
First, we downloaded earthquake disaster data through the USGS website. Then, we used ArcGIS software to load the obtained data and made corresponding thematic maps according to the year. Finally exported the map.

ii. Data sources (condition selection)
The original data was from the USGS official website.

VI. Sharing and usage method of the dataset/atlas

i. Sharing methods and restrictions
Full and open sharing.

ii. Contact information of the sharing service (condition selection)
Online link address:
Contact Information for Service:
Name: Service group of Disaster Risk Reduction Knowledge Service System of IKCEST
Address: 11A, Datun Road, Chaoyang District, Beijing, 100101, China, Institute of Geographic Sciences and Natural Resources Research, CAS.
Zip Code: 100101
E-mail: ikcest-drr@lreis.ac.cn

iii. Conditions and methods of usage
This dataset can be opened using ArcGIS.

VII. Intellectual property rights of the dataset/atlas

i. Property rights (optional)
Intellectual property of the dataset belonged to Institute of Geographic Sciences and Natural Resources Research, CAS.

ii. Reference method of the dataset/atlas
Inversion dataset of Spatio-temporal Distribution of Earthquake Disaster in the Belt and Road Area (1998). Disaster Risk Reduction Knowledge Service of International Knowledge Centre for Engineering Sciences and Technology (IKCEST) under the Auspices of UNESCO, 2019.5.21.

iii. Usage contacts of the datasets/atlas
Name: Service group of Disaster Risk Reduction Knowledge Service System of IKCEST
Address: 11A, Datun Road, Chaoyang District, Beijing, 100101, China, Institute of Geographic Sciences and Natural Resources Research, CAS.
Zip Code: 100101
E-mail: ikcest-drr@lreis.ac.cn

VIII. Others (optional)
In addition to the above, other information must also be explained.
<table>
<thead>
<tr>
<th>Data documentation author</th>
<th>Wei Haishuo</th>
<th>Update time</th>
<th>2019-5-21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization</td>
<td>Institute of Geographic Sciences and Natural Resources Research, CAS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact information</td>
<td>Email</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address</td>
<td>11A, Datun Road, Chaoyang District, Beijing, 100101, China</td>
<td>Postcode</td>
<td>100101</td>
</tr>
<tr>
<td>Telephone</td>
<td>18753377959</td>
<td>E-mail</td>
<td>weihslreis.ac.cn</td>
</tr>
</tbody>
</table>