The distribution dataset of rainstorm-flood disaster risk in the cross-border area between China and Russia

Data Documentation

I. Dataset/atlas content features

i. Abstract

This dataset described the distribution of rainstorm-flood disaster risk in China-Mongolia-Russia economic corridor, which mainly located in the cross-border region between China and Russia. They were collected and organized by the Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences. This dataset was composed of 17 raster files. It can be used to study meteorological disasters and provide important basis for disaster prevention and reduction and reducing the negative effects of meteorological disasters.

ii. Elements (content fields)

This dataset was named as "Meteorological resource database of " Belt and Road" China-Mongolia-Russia economic corridor", which included 4 data files. There are mainly 1 data name for different years and they are described as table 1.

Table 1 Description of data element content

Data name	Item (field)	Field name in Chinese	Field measure unit	Field code description	Remarks
Climate Resource	Rainstorm-flood disaster risk	等级			

iii. Temporal cover

1980-2016

iv. Spatial cover

This dataset covered two countries in the belt and road. Countries involved include Russia and China.

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 WGS-1984 coordinate system with a minimum time interval of one month.

IV. Dataset/atlas storage management

i. Data quantity

The volume of the dataset is 24 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 meteorological data through the China Meteorological Science Data Sharing Service website. Then, we used ArcGIS software to load the obtained data and made corresponding thematic maps according to the season and year. Finally exported the map.

ii. Data sources (condition selection)

The Chinese meteorological data were obtained from the China meteorological science data sharing service website (http://cdc.cma.gov.cn/), and the related data of Primorsky Krai were obtained from the website of the All-Russian Research Institute of Hydrometeorological Information, World Data Center, in Obninsk http://meteo.ru/). Digital elevation model (DEM) data with a spatial resolution of 90 m were obtained from the system of Shuttle Radar Topography Mission (SRTM), as jointly measured by National and Space Administration (NASA) and National Imagery and Mapping Agency (NIMA).

iii. Methods of the data acquisition and processing (condition selection)

Acquisition method: Down on the net.

Processing method: Data registration and classification method.

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

The distribution of rainstorm-flood disaster risk in the cross-border area between China and Russia. Disaster Risk Reduction Knowledge Service of International Knowledge Centre for Engineering Sciences and Technology (IKCEST) under the Auspices of UNESCO, 2020.11.10.URL

iii. Usage contacts of the datasets/atlas

Name: Service group of Disaster Risk Reduction Knowledge Service System of IKCEST

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Zip Code：100101

E-mail: ikcest-drr@lreis.ac.cn

VIII. Others (optional)

In addition to the above, other information must also be explained.

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