Mongolian Plateau Drought Distribution Dataset from 1981 to 2012

Data Documentation

I. Dataset/atlas content features

i. Abstract

This dataset was the drought distribution data of the Mongolian plateau from 1981 to 2012. It mainly described the drought conditions of different maps and different years of the Mongolian plateau. There were 32 grid files in total. They were collected and organized by the Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences. They could be used to study the occurrence and distribution of drought disasters, and provided an important basis for preventing drought disasters and reducing the negative impact of it.

ii. Elements (content fields)

This dataset was named as "Mongolian Plateau Drought Distribution Dataset from 1981 to 2012", which included 15 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
Drought on the Mongolian plateau	Level	等级			

iii. Temporal cover

1981-2012

iv. Spatial cover

Mongolian Plateau

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

Yearly

ii. Spatial reference, accuracy, and granularity

This dataset used the WGS1984 coordinate system with a minimum time interval of one year.

IV. Dataset/atlas storage management

i. Data quantity

The volume of the dataset is 526 MB.

ii. Type format

This dataset was stored in hard disk with formats of .tif.

iii. Update management

Unscheduled update.

V. Quality control of the dataset/atlas

i. Production mode

We used NOAA avhrrndvi-pathfinder10-day synthetic remote sensing data from 1981 to 1999 and MODIS vegetation index and surface temperature data set from 2000 to 2012 to build a stable drought monitoring model based on the general characteristic space of Ts-NDVI. Finally, based on the temperature vegetation drought index (TVDI), the spatial and temporal distribution characteristics of drought in the Mongolian plateau were demonstrated.

ii. Data sources (condition selection)

The original data was MODIS remote sensing images downloaded from the USGS 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 “Mongolian Plateau Drought Distribution Dataset from 1981 to 2012”. Disaster Risk Reduction Knowledge Service of International Knowledge Centre for Engineering Sciences and Technology (IKCEST) under the Auspices of UNESCO, 2018.6.21.

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.

Data documentation author information			
Data documentation author	Wei Haishuo	Update time	2018-5-21
Organization	Institute of Geographic Sciences and Natural Resources Research, CAS		

Contact information	Email			
Address	11A, Datun Road, Chaoyang District, Beijing, 100101, China		Postcode	100101
Telephone	18753377959	E-mail	weihs@lreis.ac.cn	