

Land degradation and restoration data set in Mongolia from 2015 to 2020**Data Documentation****I. Dataset/atlas content features****i. Abstract**

This data set is the land degradation and restoration data set in Mongolia from 2015 to 2020. It mainly records the types of land degradation and restoration, as well as the characteristics of spatial and temporal distribution, with a total of 3 vector files. They were collected and organized by the Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences. And it can provide important basis for monitoring and prevention of land degradation disaster.

ii. Elements (content fields)

This dataset was named as “Land degradation and restoration data set in Mongolia from 2015 to 2020”, which included 2 data files. There are mainly 2 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 |
|------------------|------------------------|-----------------------|--------------------|------------------------|---------|
| Land degradation | Land degradation types | | | | |
| Land restoration | Land restoration types | | | | |

iii. Temporal cover

2015-2020

iv. Spatial cover

Mongolia

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**

5 years.

ii. Spatial reference, accuracy, and granularity

This dataset used the WGS1984 coordinate system. The spatial resolution is 30 meters.

IV. Dataset/atlas storage management**i. Data quantity**

The volume of the dataset is 1.26 GB.

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

Based on multi-source remote sensing image data, we adopted object-oriented classification method to obtain land cover data products of 2015 and 2020 in Mongolia with a spatial resolution of 30 meters. Based on the obtained land cover interpretation data, the forest, meadow and typical grassland, which obviously did not have land degradation, were combined and classified into areas without land degradation, and the information of features such as desert grassland, bare land, sandy land and desert were extracted separately. Under the support of GIS spatial analysis module, respectively 2015 and 2020 of land cover data stack operations, to build the transfer matrix of land cover, land degradation and land recovery type system. Finally, land degradation and land restoration data in Mongolia with a spatial resolution of 30 meters were obtained from 2015-2020.

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

Land degradation and restoration data set in Mongolia from 2015 to 2020. Disaster Risk Reduction Knowledge Service of International Knowledge Centre for Engineering Sciences and Technology (IKCEST) under the Auspices of UNESCO, 2021.08.29.

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.

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VIII. Others (optional)

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

| Data documentation author information | | | |
|---------------------------------------|--|-------------|-------------------|
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