Dataset of soil salinization in the lower Yellow River and coastal cities (2015-2020)

Data Documentation

I. Dataset/atlas content features

i. Abstract

This dataset is about temporal and spatial changes in salinization in the lower Yellow River and coastal cities from 2015 to 2020. It mainly records the spatial distribution of salinization in the lower reaches of the Yellow River and coastal cities, as well as the characteristics of temporal and spatial distribution. There are 2 vector files in total. 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 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
Soil salinization	Salinization grade				

iii. Temporal cover

2015-2020

iv. Spatial cover

Lower Yellow River and coastal cities

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 42.7MB.

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-spectral remote sensing images, using ENVI, ArcGIS and other software for spatial processing, the spatial distribution of salinization in 2015 and 2020 is obtained.

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

Data set of soil salinization in the lower Yellow River and coastal cities (2015-2020). Disaster Risk Reduction Knowledge Service of International Knowledge Centre for Engineering Sciences and Technology (IKCEST) under the Auspices of UNESCO, 2021.09.25.

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

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VIII. Others (optional)

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

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