

## **Kenli County Salinization Data (2014)**

### **Data Documentation**

#### **I. Dataset/atlas content features**

##### **i. Abstract**

The data source for this dataset is USGS Landsat 8 OLI data. The spatial resolution is 30 meters, and after image processing such as radiometric calibration and atmospheric correction, the inversion data of the Kenli County in 2014 was obtained.

##### **ii. Elements (content fields)**

There are totally 2 fields in the dataset, whose meaning is as follows:

“location” : loaction

“value”: Salinization value,

##### **iii. Temporal cover**

2014

##### **iv. Spatial cover**

Kenli County in China.

#### **II. Subject/industry scope of dataset/atlas**

##### **i. Subject scope**

Geography .

##### **ii. Industry scope**

Disaster Risk Reduction

##### **iii. Other classifications (optional)**

(Other categories can be applied, but should reflect the dataset/atlas characteristics.)

#### **III. Accuracy of dataset/atlas**

##### **i. Time frequency**

##### **ii. Spatial reference, accuracy, and granularity**

#### **IV. Dataset/atlas storage management**

##### **i. Data quantity**

79.3M

##### **iii. Type format**

Excel、Tif

##### **iv. Update management**

Irregular updating

#### **V. Quality control of the dataset/atlas**

##### **i. Data sources (condition selection)**

USGS Landsat 8 OIL

##### **ii. Methods of the data acquisition and processing (condition selection)**

This data uses Landsat8 remote sensing image data as the data source. Through the pre-processing of radiation calibration, atmospheric correction, geometric precision correction and cutting, the characteristic parameters of the ground objects are extracted, and the salt index (SI) and surface albedo (Albedo) are selected to form SI. -Albedo feature space, normalize the model parameters, and further obtain the inversion map of salinization distribution in the region.

#### **VI. Sharing and usage method of the dataset/atlas**

##### **i. Sharing methods and restrictions**

Fully opened sharing

**ii. Contact information of the sharing service (condition selection)**

Contact Information for Service:

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

Address: A11 Datun Road, Chaoyang District, Beijing

Zip Code: 100101

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

**iii. Conditions and methods of usage**

The dataset can be read by ArcGIS software and Microsoft office.

**VII. Intellectual property rights of the dataset/atlas**

**i. Property rights (optional)**

The property of the dataset belongs to the Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences.

**ii. Reference method of the dataset/atlas**

Kenli County Salinization Data (2014). Disaster Risk Reduction Knowledge Service of International Knowledge Centre for Engineering Sciences and Technology (IKCEST) under the Auspices of UNESCO, 2019.9.15. <http://drr.ikcest.org/info/94879>

**iii. Usage contacts of the datasets/atlas**

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

Address: A11 Datun Road, Chaoyang District, Beijing .

Postcode: 100101

Telephone: 010-64889048-8006

Email: 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	Bian Lingling	Update time	2019-10-17
Organization	Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences.		
Contact information			
Address	A11 Datun Road, Chaoyang District, Beijing .	PostcodeS	100101
Telephone	010-64889048-8006	E-mail	bianll@lreis.ac.cn

