

**Gale Disaster and Sand-dust Storm in Xi'an****Data Documentation****I. Dataset/atlas content features****i. Abstract**

The main contents of the gale disaster and sand-dust storm disaster in Xi'an are the gale disaster and sand-dust storm disaster since 1959, including the date of the gale disaster and sand-dust storm disaster in the city of Xi'an, the wind scale, the wind speed, the type, etc.

**ii. Elements (content fields)**

Table 1 Description of data element content

| Data name                                  | Item (field) | Field name in Chinese | Field measure unit | Field code description | Remarks |
|--|--------------|-----------------------|--------------------|------------------------|---------|
| Gale disaster and sand-dust storm in Xi'an | date         | Shijian               |                    |                        |         |
| Gale disaster and sand-dust storm in Xi'an | wind scale   | Fengji                |                    |                        |         |
| Gale disaster and sand-dust storm in Xi'an | wind speed   | Fengsu                | m/s                |                        |         |
| Gale disaster and sand-dust storm in Xi'an | type         | Zhonglei              |                    |                        |         |

**iii. Temporal cover**

The time of this dataset is 1959.8.15-2019.11.17

**iv. Spatial cover**

The area under the jurisdiction of Xi'an.

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

170 Geosciences 17015 Atmosphere Science 1701535 Climatology  
 560 Civil Engineering and Building Construction 56015 Basic Disciplines of Civil Engineering and Building Construction 5601530 Architectural Meteorology  
 560 Civil Engineering and Building Construction 56055 Municipal Engineering  
 570 Hydraulic Engineering 57065 Flood Control 5706510 Flood Control  
 5706520 Flood Prevention  
 610 Environmental Science and Technology and Resource Science and Technology, 61010 Basic Science of Environmental Science and Technology, 6101025 Environmental Meteorology.

**ii. Industry scope**

F Transportation, Warehousing and Postal Services, 51 Railway Transportation Industry 52 Road Transportation Industry 53 City Public Transportation Industry 54 Water Transportation Industry 55 Air Transportation Industry

M Scientific Research, Technical Services and Geological Prospecting Industry, 7610 Meteorological Services 7673 Planning Management  
N Water Conservancy, Environment and Public Facilities Management Industry, 7910 Food Control Management 8110 Municipal Public Facilities Management

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

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

(Time frequency is the representation content of datasets/atlas' time frequency, such as multi-year average, average, monthly, daily, yearly, month by month, day or hour.)

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

(This part is the spatial reference, accuracy, and granularity of datasets/atlas. The spatial reference includes coordinate system, projection mode, elevation system, etc. Spatial accuracy means the vector data scale or raster data resolution, etc. Spatial granularity is in accordance with the continent, the state, province, county, and other divisions.)

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

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

0.0234MB

#### **ii. Type format**

The dataset is stored in the hard disk and it is table data

#### **iii. Update management**

Dataset update plan: Aperiodic updating.

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

#### **i. Production mode**

Data of gale disaster and sand-dust storm disaster in Xi'an in (1959-Now) was obtained based on Xi'an Local Records Office <http://xadfz.xa.gov.cn/index.html>

China Meteorological Calamity Code (Shaanxi volume)

China Meteorological Disaster Yearbook (2005-2018), etc. And electronic, digital, integrated conversion, standardized processing, computational simulation.

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

Source of data source:

[1] Xi'an Municipal people's Government. Summary of Xi'an Agricultural and Rural Bureau on the situation of natural disasters in 2019 [EB/OL].

<http://www.xa.gov.cn/gk/zhsgjy/jzjz/5de8a63afd8508098d185ebb.html>, 2019-12-05.

[2] Mass news network. Major Weather and Climate events in 2019 in Shaanxi Province [EB/OL]. [http://www.sxdaily.com.cn/2020-01/08/content\\_8130964.html](http://www.sxdaily.com.cn/2020-01/08/content_8130964.html), 2020-01-08.

[3] Xi 'an Bureau of Emergency Management. Early warning of gale, cooling and floating dust on November 15, 2019 [EB/OL]. <http://yjglj.xa.gov.cn/xw/yjxx/5e0edc2af99d6577501ffc8b.html>, 2019-11-15.

[4] Xi'an Local Records Office. Xi'an City Chronicles (Volume 1) [DB/OL]. <http://xadfz.xa.gov.cn/index.html>, 2012-10-17.

[5] Xi'an Local Records Office. Xi'an Yearbook (1993-2019) [DB/OL]. <http://xadfz.xa.gov.cn/index.html>.

- [6] Kegang Wen, Youan Zhai. China Meteorological Disaster Code (Shaanxi Volume) [M]. Beijing: Meteorological Press, 2005.
- [7] Wenjie Dong. China Meteorological Disaster Yearbook (2005) [M]. Beijing: Meteorological Press, 2005.
- [8] Wenjie Dong. China Meteorological Disaster Yearbook (2006) [M]. Beijing: Meteorological Press, 2007.
- [9] Wenjie Dong. China Meteorological Disaster Yearbook (2007) [M]. Beijing: Meteorological Press, 2007.
- [10] Ziniu Xiao. China Meteorological Disaster Yearbook (2008) [M]. Beijing: Meteorological Press, 2008.
- [11] Ziniu Xiao. China Meteorological Disaster Yearbook (2009) [M]. Beijing: Meteorological Press, 2009.
- [12] Lianchun Song. China Meteorological Disaster Yearbook (2010) [M]. Beijing: Meteorological Press, 2010.
- [13] Lianchun Song. China Meteorological Disaster Yearbook (2011) [M]. Beijing: Meteorological Press, 2012.
- [14] Lianchun Song. China Meteorological Disaster Yearbook (2012) [M]. Beijing: Meteorological Press, 2012.
- [15] Lianchun Song. China Meteorological Disaster Yearbook (2013) [M]. Beijing: Meteorological Press, 2013.
- [16] Lianchun Song, Yida Fan. China Meteorological Disaster Yearbook (2014) [M]. Beijing: Meteorological Press, 2015.
- [17] Lianchun Song. China Meteorological Disaster Yearbook (2015) [M]. Beijing: Meteorological Press, 2016.
- [18] Lianchun Song. China Meteorological Disaster Yearbook (2016) [M]. Beijing: Meteorological Press, 2016.
- [19] Lianchun Song. China Meteorological Disaster Yearbook (2017) [M]. Beijing: Meteorological Press, 2018.
- [20] Lianchun Song. China Meteorological Disaster Yearbook (2018) [M]. Beijing: Meteorological Press, 2019.

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

Acquisition method: Book sorting on the net and field survey.

Processing method: Data registration and Object-oriented classification method.

## **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 : No. 46, Zhongguancun South Street, Haidian District, Beijing.

### **iii. Conditions and methods of usage**

The dataset can be read by excel software

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

**i. Property rights (optional)**

Dataset ownership information: Institute of Geographic Sciences and Natural Resources Research, CAS

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

<Gale disaster and sand-dust storm in Xi'an Dataset/Institute of Geographic Sciences and Natural Resources Research, CAS>

**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             | Li Wenya   | Update time |                   |
| Organization                          | Wuhan university                                 |             |                   |
| Contact information                   | 15755522556                                      |             |                   |
| Address                               | Luoja mountain in Wuchang District, Wuhan, Hubei | Postcode    | 430061            |
| Telephone                             | 15755522556                                      | E-mail      | 1520981378@qq.com |