

## **Changes of Vegetation Growth Trends in Shaanxi Province from 1998 to 2005**

### **Data Documentation**

#### **I. Dataset content features**

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

The datasets are Changes of Vegetation Growth Trends in Shaanxi Province from 1998 to 2005, which mainly record NDVI linear trend, NDVI anomaly linearity trend and mean VGT-S10 NDVI distribution in spring, summer, autumn and winter. They are collected and organized by Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences. There are totally 11 data files in .png format. They can be used to study the trend of vegetation growth in Shaanxi Province from 1998 to 2005, and government decision-making.

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

The datasets are named as “Changes of Vegetation Growth Trends in Shaanxi Province from 1998 to 2005”, which include 11 data files. The main field name is NDVI Value.

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

Time of the dataset ranged from 1998 to 2005.

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

The datasets cover all of Shaanxi Province.

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

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

Environmental sciences, regional sustainable development, geography.

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

Resource and environmental monitoring.

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

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

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

Yearly

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

The dataset is test data without spatial reference and the minimal granularity of the dataset is a Province.

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

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

The volume of the dataset is 1.85 MB.

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

The dataset is stored in hard disk with a format of .png image.

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

Unscheduled update.

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

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

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

By inverting the NDVI data of the study area, the corresponding NDVI distribution map is obtained. Then the linear trend of NDVI and the linear percentage of NDVI anomalies in the study area are calculated by formulas. Finally, add the above results to obtain vegetation growth trends in Shaanxi

Province.

## **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: Yuan Yuele

Address: 11A, Datun Road, Chaoyang District, Beijing, 100101, China, Institute of Geographic Sciences and Natural Resources Research, CAS.

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

The dataset can be read by ArcGIS software.

## **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**

Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences. Changes of Vegetation Growth Trends in Shaanxi Province. Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences [Establishment organization], 2007. World Data Center for Renewable Resources and Environment [Communication agency], 2017-1-28.

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

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## **VIII. Others (optional)**

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

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