

The dataset of restoration degree of forest vegetation in southern China**Data Documentation****I. Dataset/atlas content features****i. Abstract**

The assessment on the restoration degree of damaged and unrestored forest vegetation contributes to the management of forest resources and improve the restoration model of forest vegetation, which is of great significance for restoration of forest vegetation after disaster. The EVI data of 2008-2015 is selected as the main data sources. We used the coefficient of variation method to assess the restoration degree of damaged forest vegetation. The higher the coefficient of variation, the higher the degree of restoration of forest vegetation. This dataset can be used for research on post-disaster forest vegetation restoration.

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
anhui.tif			Null	0-1: the degree of vegetation restoration	
chongqing.tif			Null	0-1: the degree of vegetation restoration	
fujian.tif			Null	0-1: the degree of vegetation restoration	
guangdong.tif			Null	0-1: the degree of vegetation restoration	
guangxi.tif			Null	0-1: the degree of vegetation restoration	
guizhou.tif			Null	0-1: the degree of vegetation restoration	
hubei.tif			Null	0-1: the degree of	

				vegetation restoration	
hun. tif			Null	0-1: the degree of vegetation restoration	
jiangxi. tif			Null	0-1: the degree of vegetation restoration	
zhejiang. tif			Null	0-1: the degree of vegetation restoration	

iii. Temporal cover

The dataset coverage is 2008/01/10 to 2008/02/02.

iv. Spatial cover

The dataset covers Anhui, Chongqing, Fujian, Guangdong, Guangxi, Guizhou, Hubei, Hunan, Jiangxi and Zhejiang Province.

II. Subject/industry scope of dataset/atlas

i. Subject scope

Earth Science

ii. Industry scope

Natural science research and experiment development

iii. Other classifications (optional)

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

III. Accuracy of dataset/atlas

i. Time frequency

The dataset is produced for the southern snowstorm disaster in early 2008, the specific time of which is from 2008/01/10 to 2008/02/02.

ii. Spatial reference, accuracy, and granularity

The spatial reference is Albers Equal Area Conic; spatial resolution is 250m; province;

IV. Dataset/atlas storage management

i. Data quantity

The data quantity is 7.84 MB.

ii. Type format

The dataset is stored as a hard disk, and the data structure type is a raster TIF file.

iii. Update management

No update plan

V. Quality control of the dataset/atlas

i. Production mode

Based on the spatial distribution of the forest vegetation damaged by ice-snow disaster, the MODIS/EVI is selected as the main data sources. The coefficient of variation of damaged forest vegetation of 2008-2015 was calculated with the coefficient of variation method, and the results were normalized, which became the final assessment dataset of damaged forest vegetation restoration degree.

ii. Data sources (condition selection)

MOD13Q1 sources from MODIS website;

Forest distribution map sources from National earth system science data sharing infrastructure.

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

The data sources from MODIS website. We yearly calculate the averaged EVI in growth season, which is used for the Coefficient of variation algorithm. And then, we normalized the result.

VI. Sharing and usage method of the dataset/atlas

i. Sharing methods and restrictions

Fully shared

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

The service is as follows:

Name: Wang xuecheng

Mailing address: Chaoyang District, Beijing Datun Road on the 11th

Zip code: 100101

E-mail: wangxc.15s@igsnr.ac.cn

iii. Conditions and methods of usage

(The environmental conditions when to use the datasets/atlas should be provided, including the necessary software tools, hardware requirements, and operation of the steps, methods, or precautions.)

VII. Intellectual property rights of the dataset/atlas

i. Property rights (optional)

“The dataset of restoration degree of forest vegetation in southern China” owned by institute of geographic sciences and natural resources research, CAS.

ii. Reference method of the dataset/atlas

The dataset of restoration degree of forest vegetation in southern China. Disaster Risk Reduction Knowledge Service of International Knowledge Centre for Engineering Sciences and Technology (IKCEST) under the Auspices of UNESCO,2018.5.20.<http://drr.ikcest.org/info/9157d>.

iii. Usage contacts of the datasets/atlas

Contact person

Name: Wang xuecheng

Mailing address: Chaoyang District, Beijing Datun Road on the 11th

Zip code: 100101

E-mail: wangxc.15s@igsnr.ac.cn

VIII. Others (optional)

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

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