<u>The Diagnostic Dataset of Damaged Vegetation Restoration Based on Phenology</u> <u>Information</u>

Data Documentation

I. Dataset/atlas content features

i. Abstract

(The Abstract is an overview of the contents of the dataset/atlas.)

The diagnostic data of damaged vegetation restoration can reflect plant restoration status in time, and provides some effective support for disaster recovery and reconstructions of affected vegetation. This dataset is producted by the spatial distribution of damaged vegetation and corresponding plant phenology data, which use the dynamic threshold method to mmonitor whether the damaged vegetation is restored or not. The dataset covers the whole of Hunan province, which includes 101 counties and the spatial resolution of which is 250 meters. What's more, the diagnostic result of vegetation restoration is from 2008 to 2015, the pixel value of which represents the vegetation restoration status. The dataset contributes to forest resource management and related scientific research.

ii. Elements (content fields)

(The list describes the feature items (content fields) contained in the dataset/atlas. The code dictionary table should be given if the element is a code, and the meaning of the code should be indicated. Each data file (layer) should be described accordingly if the datasets/atlas have multiple data files (layers).)

Data name	Item (field)	Field	Field	Field code	Remarks
		name in	measure	description	
		Chinese	unit		
anhuaxian_update				-3: non	Anhua
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				unrestored	restora
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				forest and	
				restoration	
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				forest	county,
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				undetected	is of
				area	damaged
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Table 1 Description of data element content

		unrestored	restora
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		forest	2015
		5: damaged	2015
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		restoration	
anxiangxian_update		-3: non	Anviona
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		forest	2015
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		forest	2015
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			restoration	
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jiangyongxian_update	-3: non	Jiangyo
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	restoration	2015
jinshishi_update	-3: non	Jinshi
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	forest	2015
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jishoushi_update	-3: non	Jishou
	forest	county,
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		forest	2015
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		forest	2015
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leiyangshi_update		-3: non	Leiyang
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lengshuitanqu_update		-3: non	Lengshu
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iii. Temporal cover

(Temporal cover means the time information of the dataset/atlas content that can be recorded as a time point or a time period (start time and end time).)

The dataset is the diagnosed result of damaged vegetation restoration on 2015.

iv. Spatial cover

(The spatial information of the dataset/atlas includes the location description information or the latitude and longitude coordinates (latitude and longitude data should follow the format of degree, minute and second). It can be a single location or a spatial range (latitude and longitude coordinates in the upper left and lower right corners).

The dataset covers the whole Hunan province, which includes 101 county-level administrative units.

II. Subject/industry scope of dataset/atlas

i. Subject scope

(The subject classification of the dataset/atlas is based on the "Subject Classification and Code (GB/T 13745-2008)". The general requirements of a primary classification or a number of auxiliary classifications should reach the second level of classification, and may also reach the third level of classification.)

Earth science

ii. Industry scope

(The industry classification of the dataset/atlas is based on the "Industry Classification of National Economy and Code Table (GB/T 4754-2002)". The general requirements of a primary classification or a number of auxiliary classifications should reach the second level of classification, and may also reach the third level of classification.)

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

(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.)

The time frequency is yearly.

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.)

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

IV. Dataset/atlas storage management

i. Data quantity

(Data quantity means dataset/atlas' data volume (in MB) or record number (for monitoring data or table data).)

The data quantity is 1.01MB.

ii. Type format

(Type format means dataset/atlas storage medium (paper and electronic media, including CD, hard disk, server, etc.), structure type (text, table, vector, raster, etc.), and its specific format and version.)

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

iii. Update management

(Dataset/atlas update plan: the data provider should indicate whether there is a data update plan, and if necessary, specify the update frequency and the person responsible for it. The information of the person responsible for updating management includes institute name, name of the person responsible, contact information (mailing address, telephone, and e-mail), and other relevant information.))

No update plan

V. Quality control of the dataset/atlas

i. Production mode

(The production mode of the dataset/atlas mainly includes raw data (field monitoring, investigation survey, test analysis, experimental test, acquisition, and similar data) and processing data (electronic, digital, integrated conversion, standardized processing, computational simulation, and similar data).)

Based on the spatial distribution of damaged vegetation, the dynamic threshold method was used to compare various phenology parameters before and after disaster. If the phenological parameters were Revert to the pre-disaster level, the damaged vegetation was judged as that one restored.

ii. Data sources (condition selection)

(The source, accuracy of the raw data, and scope of application for the raw data collected, purchased, exchanged, and shared and the data generated by processing must be explained. You may leave this blank and indicate "self-built" when the dataset is the first-hand observation data.)

Phenological parameter dataset is extracted from MODIS/EVI time series data using Timesat software.

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

(For the data of collection, monitoring, testing, processing, must explain the collection and the processing

methods. The specifications include the equipment, standards, and methods for data acquisition, monitoring, testing, and usage and methods and models (the model origin and parameters) or software of processing, calculation method, and the methods (standards, etc.) of error control and processing. The data provider may leave this blank and just indicate "raw data, without processing" when the dataset is the original acquisition without any processing.)

MODIS / EVI datasets were downloaded from the MODIS website. Based on the Timesat software platform, the SVI filtering algorithm was used to filter the EVI time series data to extract the related phenological parameters. The parameters of the phenology are different from the damage before and after the damage. Using dynamic threshold method diagnose whether post-disaster phenological parameters are reverted to pre-disaster level of those or not. If the selected phenological parameters are restored to the pre-disaster level, the damaged vegetation is restored.

VI. Sharing and usage method of the dataset/atlas

i. Sharing methods and restrictions

(The sharing method can be one of three possible types: full and open sharing, agreement sharing, and temporarily unshared. Full and open sharing is when the user can freely access the dataset/atlas. Agreement sharing means obtaining a dataset/atlas after signing a shared agreement with an application for the responsible party or a delegated regulatory agency. Temporarily unshared means that the data cannot be accessed at present or only be shared after the approval of the management department. Agreement sharing needs to explain the specific requirements, while temporarily unshared needs to explain the reasons and the limit of the open time.)

Temporarily not shared before 2017/12/31, fully shared after 2017/12/31

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

(Full and open sharing need to provide an online link address or a service contact. Protocol sharing needs to provide the time and contact information of the service. The data provider may leave this blank and just indicate "service provided by the collection management institute" if the dataset/atlas is only served by the collection management institution.)

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@igsnrr.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/atlas property ownership information includes the property owner contact information.) "The diagnostic dataset of damaged vegetation restoration based on phenology information" owned by institute of geographic sciences and natural resources research, CAS.

ii. Reference method of the dataset/atlas

(Dataset/atlas usage statement and citation: (i) usage statement refers to identify the dataset/atlas used in the user's research results text, while (ii) citation refers to identify the dataset/atlas used in the references of the research results, or list must be referenced published papers or monographs closely related to the dataset/atlas. It can be in either Chinese or English form or only in Chinese.) (The usage statement can follow the following method: <Dataset/atlas name> from Disaster Risk Reduction Knowledge Service System of International Knowledge Center for Engineering Sciences and Technology (IKCEST) "<Project name (number)>"; reference method is recommended to take the following method: <Dataset/atlas property owner name> (can be multiple, sorted by contribution size, separated by ","). <Organization name> (can be multiple, sorted by contribution size, separated by ","). <Dataset/atlas name>. <Generation time>. When actually written, "<>"is replaced by a specific value.)

iii. Usage contacts of the datasets/atlas

(The contact persons or agencies, who curate the data and provide a data sharing service, should be listed, including their name, address, postcode, telephone, and e-mail).

Contact person

Name: Wang xuecheng

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

Zip code: 100101

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

VIII. thers (optional)

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

Data documentation author information						
Data documentation author	Wang xuehceng	Update time		2017.08.29		
Organization	Institute of geographic	Institute of geographic sciences and natural resources research, CAS.				
Contact information	E-mail					
Address	Chaoyang District, Beijing Datun Postcode 100101			100101		
	Road on the 11th					
Telephone		E-mail	wangxc.15s@	igsnrr.ac.cn		