Forest Change in the Upper Indus Valley Dataset (1990-2020)

Data Documentation

I. Dataset/atlas content features

i. Abstract

This dataset documents forest changes in the upper Indus Valley (1990-2020). This There are 62 records in 2 .dat file. They are produced by the Institute of Geographical Sciences and Natural Resources Research of the Chinese Academy of Sciences. This dataset provides an important data base and monitoring method for planning land and forest use in Indus Valley countries, protecting fragile environments, and promoting policies for the Sustainable Development Goals.

ii. Elements (content fields)

This dataset was named as "Forest Change in the Upper Indus Valley Dataset (1990-2020)", which included 1 data files. There are mainly 2 data name for different years and they are described as table 1.

Table 1 Description of data element content

Data name	Item (field)	Field name in Chinese	Field measure unit	Field code description	Remarks
Forest Change in the Upper Indus Valley Dataset (1990-2020)					

iii. Temporal cover

1900-2020

iv. Spatial cover

The Upper Indus Valley

II. Subject/industry scope of dataset/atlas

i. Subject scope

Earth sciences

ii. Industry scope

forestry

iii. Other classifications (optional)

III. Accuracy of dataset/atlas

i. Time frequency

1 yars.

ii. Spatial reference, accuracy, and granularity

This dataset used the WGS_1984_UTM_Zone_42N coordinate system.

IV. Dataset/atlas storage management

i. Data quantity

The volume of the dataset is 8.21 GB.

ii. Type format

This dataset was stored in hard disk with formats of ".dat".

iii. Update management

Unscheduled update.

V. Quality control of the dataset/atlas

i. Production mode

This dataset used the LandTrendr spectral-temporal segmentation algorithm combined with 8203 scenes of multi-source remote sensing data to study the forest change footprint in the upper Indus Valley. The overall accuracy of LandTrendr extraction for forest disturbance and recovery was 86.01%, and the Kappa coefficient was 0.73.

ii. Data sources (condition selection)

The original data was from the USGS official website.

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

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

Zip Code：100101

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

iii. Conditions and methods of usage

This dataset can be opened using ArcGIS.

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

Data set of forest changes in the upper Indus Valley (1990-2020). Disaster Risk Reduction Knowledge Service of International Knowledge Centre for Engineering Sciences and Technology (IKCEST) under the Auspices of UNESCO, 2022.05.25.

iii. Usage contacts of the datasets/atlas

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

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

Zip Code：100101

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

VIII. Others (optional)

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

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