A Big Earth Data Platform for Three Poles

**Tree-canopy cover (TCC) change dataset from 1990 to 2020 in the Eastern Himalayas.**

1、Description

Forest is an important terrestrial ecosystem, accounting for about one-third of the total land area. It plays an important role in regulating climate, providing habitat for species, and maintaining global ecosystem balance. The dynamic change of the tree-canopy cover will affect the structure, composition, and function of the forest ecosystem. Landsat data were used to derive the 30-m tree-canopy cover dataset based on the machine learning method. The dataset of the rate of tree-canopy cover change in the Eastern Himalayas from 1990 to 2020 was generated using the annual tree-canopy cover data. The results show that the average tree-canopy cover in this region had increased from 40.67% (1990) to 43.43% (2020), an increase of 2.76%, indicating that the forests in the Eastern Himalayas improved in the past few decades.

2、Keywords

Theme：Forestland,Vegetation,Forest,Vegetation cover  
Discipline：Terrestrial Surface  
Places：eastern Himalayas  
Time：1990-2020

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：1200.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：29.9 | - |
| west：95.44 | - | east：88.36 |
| - | south：26.68 | - |

5、Time frame:1989-12-31 16:00:00+00:00--2020-12-30 16:00:00+00:00

6、Reference method

References to data:

HE Zhuoyu , WANG Chunling , WANG Jianbang , FENG Min. Tree-canopy cover (TCC) change dataset from 1990 to 2020 in the Eastern Himalayas.. A Big Earth Data Platform for Three Poles, doi:10.11888/Terre.tpdc.2725972022

References to articles:

7、Supporting project information

8、Data resource provider

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