A Big Earth Data Platform for Three Poles

**Forest change dataset during the 1986–2018 in the Natural Forest Conversion Program, northeast China.**

1、Description

Forest change (including forest loss and gain) is a complex ecological process influenced by natural and human activities, and has important impacts on global material cycles and energy flows. Based on long-term tree-canopy cover (TCC) data, the Bi-temporal class-probabilities model was used to detect forest changes, and a dataset of forest change of the Natural Forest Conversion Program area in northeast China from 1986 to 2018 was obtained (spatial resolution 30 meters with a temporal resolution of 1 year). The method of stratified random sampling was used to select 1000 points in the reserve and visual interpretation was carried out to evaluate the accuracy of forest change. The results show that the accuracy of forest loss (producer's accuracy = 85.21%; user's accuracy = 84.26%) and forest restoration (producer's accuracy = 87.74%; user's accuracy = 88.31%) are both high, which can effectively reflect the forest change status of the protected area.

2、Keywords

Theme：Forestland,Vegetation,vegetation coverage,Forest  
Discipline：Terrestrial Surface  
Places：Natural Forest Conversion Program in northeast China  
Time：1986-2018

3、Data details

1.Scale：None

2.Projection：

3.Filesize：313.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：53.56 | - |
| west：118.8 | - | east：133.94 |
| - | south：41.36 | - |

5、Time frame:1985-12-31 16:00:00+00:00--2018-12-30 16:00:00+00:00

6、Reference method

References to data:

HE Zhuoyu , LI Xin, WANG Chunling , WANG Jianbang , PANG Yong, YU Tao , FENG Min. Forest change dataset during the 1986–2018 in the Natural Forest Conversion Program, northeast China.. A Big Earth Data Platform for Three Poles, doi:10.11888/Terre.tpdc.2725792022

References to articles:

7、Supporting project information

8、Data resource provider

name: FENG Min  
unit: Institute of Tibetan Plateau Research, Chinese Academy of Sciences  
email: mfeng@itpcas.ac.cn  
  
name: LI Xin  
unit:   
email: xinli@itpcas.ac.cn  
  
name: PANG Yong  
unit:   
email:   
  
name: WANG Jianbang   
unit: Lanzhou University  
email: wangjb19@lzu.edu.cn  
  
name: HE Zhuoyu   
unit: Lanzhou University  
email: hezhy21@lzu.edu.cn  
  
name: WANG Chunling   
unit: Institute of Tibetan Plateau Research, CAS  
email: clwang@itpcas.ac.cn  
  
name: YU Tao   
unit: Chinese Academy of Forestry  
email: yutaogis@ifrit.ac.cn