A Big Earth Data Platform for Three Poles

**Spatio-temporal change data of Fraction Vegetation Coverage in Central Asia (2010, 2015, 2020)**

1、Description

This dataset includes Fraction Vegetation Coverage (FVC) data for five countries in Central Asia (Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan) during 2010, 2015 and 2020. The data is calculated from the MODIS-NDVI data set (product number MOD13A2.006) based on the empirical relationship between FVC in arid areas and NDVI. The product has a time resolution of 1 year and a spatial resolution of 1 km. The algorithm selects the best available pixel value based on low cloud, low detection angle and highest NDVI value from all the observation data of the year, and performs conversion.

2、Keywords

Theme：Vegetation coverage data,Terrestrial Surface Remote Sensing  
Discipline：Terrestrial Surface  
Places：Turkmenistan, Uzbekistan, Central Asia, Kazakhstan, Kyrgyzstan, Tajikistan  
Time：2010-2020

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：54.2MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：56.0 | - |
| west：46.0 | - | east：78.0 |
| - | south：36.0 | - |

5、Time frame:2009-12-31 16:00:00+00:00--2020-12-30 16:00:00+00:00

6、Reference method

References to data:

XU Xiaofan, TAN Minghong. Spatio-temporal change data of Fraction Vegetation Coverage in Central Asia (2010, 2015, 2020). A Big Earth Data Platform for Three Poles, 2021

References to articles:

赵英时. (2013). 遥感应用分析原理与方法[M]. 科学出版社.

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program

8、Data resource provider

name: TAN Minghong  
unit: Institute of Geographic Sciences and Natural Resources Research, CAS  
email: tanmh@igsnrr.ac.cn  
  
name: XU Xiaofan  
unit: Institute of Geographic Sciences and Natural Resources Research, CAS  
email: xuxiaofan17@mails.ucas.ac.cn