A Big Earth Data Platform for Three Poles

**The global AVHRR remote sensing vegetation phenology at peturning green stage in spring (1981-2003)**

1、Description

This dataset is based on the long sequence (1981-2013)normalized difference vegetation index product(Version 3) of the latest NOAA Global Inventory Monitoring and Modeling System (GIMMS). First, the NDVI data products were re-sampled from the spatial resolution of 1/12 degree to 0.5 degree, then the time series of every year was smoothed by the double-logistic method, and the smoothed curvature was calculated. The maximum curvature of spring was selected as the returning green stage of the vegetation in Spring. This data can be used to analyze the temporal and spatial characteristics of the Holarctic vegetation phenology in Spring.

2、Keywords

Theme：Galactic System,Desert,Vegetation
Discipline：Terrestrial Surface,Solar-Terrestrial Physics and Astronomy
Places：Pan-Arctic
Time：1982-2013每年数据

3、Data details

1.Scale：None

2.Projection：

3.Filesize：20.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：90.0 | - |
| west：-180.0 | - | east：180.0 |
| - | south：30.0 | - |

5、Time frame:1982-01-15 00:00:00+00:00--2014-01-14 00:00:00+00:00

6、Reference method

References to data:

XU Xiyan. The global AVHRR remote sensing vegetation phenology at peturning green stage in spring (1981-2003). A Big Earth Data Platform for Three Poles, 2019

References to articles:

Xu, X.Y, Riley, W., Koven, C.D., & Jia, G.S. (2018). Observed and simulated sensitivities of spring greenup to preseason climate in northern temperate and boreal regions. Journal of Geophysical Research: Biogeosciences, 123(1), 60-78.

7、Supporting project information

CASEarth:Big Earth Data for Three Poles（grant No. XDA19070000）

8、Data resource provider

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