A Big Earth Data Platform for Three Poles

**MODIS NDVI based phpenology for Sanjiangyuan (2001-2014)**

1、Description

The data set includes estimated data on the SOS (start of season) and the EOS (end of season) of vegetation in Sanjiangyuan based on the MODIS 16-day synthetic NDVI product (MOD13A2 collection 6). Two common phenological estimation methods were adopted: the threshold extraction method based on polynomial fitting (the term “poly” was included in the file names) and the inflection point extraction method based on double logistic function fitting (the term “sig” was included in the file names). These data can be used to analyse the relationship between vegetation phenology and climate change. The temporal coverage ranges from 2001 to 2014, and the spatial resolution is 1 km.

2、Keywords

Theme：vegetation index,Vegetation,Ecological remote sensing products,Terrestrial Surface Remote Sensing
Discipline：Terrestrial Surface
Places：Tibetan Plateau , Three-River-Source National Park, Three Rivers Source
Time：2001-2014

3、Data details

1.Scale：None

2.Projection：

3.Filesize：220.0MB

4.Data format：geotiff

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：37.38 | - |
| west：89.15 | - | east：102.58 |
| - | south：30.79 | - |

5、Time frame:2001-01-25 16:00:00+00:00--2015-01-24 16:00:00+00:00

6、Reference method

References to data:

WANG Xufeng. MODIS NDVI based phpenology for Sanjiangyuan (2001-2014). A Big Earth Data Platform for Three Poles, doi:10.11888/Ecolo.tpdc.2700342018

References to articles:

Wang X, Xiao J, Li X et al. (2017) No Consistent Evidence for Advancing or Delaying Trends in Spring Phenology on the Tibetan Plateau. Journal of Geophysical Research: Biogeosciences, 122, 3288-3305.

7、Supporting project information

8、Data resource provider

name: WANG Xufeng
unit: Cold and Arid Regions Environmental and Engineering Research Institute, CAS
email: wangxufeng@lzb.ac.cn