A Big Earth Data Platform for Three Poles

**MODIS vegetation index dataset in Sanjiangyuan (2000-2018)**

1、Description

The data set is MODIS vegetation index data (MOD13Q1). The source areas of the three rivers are extracted to carry out the research and analysis of the source areas of the three rivers separately. MOD13Q1 is a 16-day composite vegetation index, including normalized vegetation index (NDVI) and enhanced vegetation index (EVI). The spatial scope of Sanjiang Source covers two MODIS files (h25v05 and h26v05). Data storage format is hdf. Each file contains 12 bands: Normalized Vegetation Index (NDVI), Enhanced Vegetation Index (EVI), Data Quality (VI Quality), Red Reflectance, Near Infrared Reflectance (NIR Reflectance), Blue Reflectance, Mid Infrared Reflectance, Observation. Viewzenith angle, sun zenith angle, relative azimuth angle, composite day of the year and pixel reliability.  
The data format of this data set is hdf, spatial resolution is 250m, temporal resolution is 16 days, time range: February 2000 to October 2018.

2、Keywords

Theme：NDVI, 水文科学, 植被指数, MODIS, EVI  
Discipline：Geographic Sciences, Atmospheric science  
Places：Tibetan Plateau , Three-River-Source National Park, Three Rivers Source  
Time：

3、Data details

1.Scale：None

2.Projection：

3.Filesize：147456.0MB

4.Data format：None

4、Space scope

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

5、Time frame:2000-02-20 00:00:00+00:00--2018-11-19 00:00:00+00:00

6、Reference method

References to data:

Kamel Didan\*, Armando Barreto Munoz, Ramon Solano, Alfredo Huete. MODIS vegetation index dataset in Sanjiangyuan (2000-2018). A Big Earth Data Platform for Three Poles, doi:10.11888/Ecolo.tpdc.2712232018

References to articles:

Didan, K., Munoz, A. B., Solano, R., & Huete, A. (2015). MODIS vegetation index user's guide (MOD13 series) version 3.00, June 2015 (Collection 6).

7、Supporting project information

8、Data resource provider

name: Kamel Didan\*, Armando Barreto Munoz, Ramon Solano, Alfredo Huete  
unit: The University of Arizona  
email: didan@email.arizona.edu