A Big Earth Data Platform for Three Poles

**The cloud-free NDVI data in the Heihe River Basin (2001-2011)**

1、Description

NDVI products based on MODIS (myd13a2 and mod13a2) use the improved hats algorithm to remove the cloud and reconstruct the daily and 1km resolution NDVI data set in 2001-2011. The product coordinate system is longitude and latitude projection, and the spatial range is 96.5e-102.5e, 37.5n-43n. Every day's data is stored as a geotif file. The name is Heihe ﹣ YYY ﹣ NDVI ﹣ recon.ddd.tif, where yyyy is the year and DDD represents a certain day in a specific year. There are 365 days of output data by default every year. The data type is 16bit shaping, the pixel filling value of invalid value is - 3000, the effective data range is - 2000-10000, and the scaling factor is 0.0001.

2、Keywords

Theme：NDVI, MYD13A2, 植被指数, MOD13A2, MODIS
Discipline：Physical Geography
Places：Heihe River Basin
Time：2000-2011

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：2470.0MB

4.Data format：栅格

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：43.0 | - |
| west：96.5 | - | east：102.5 |
| - | south：37.5 | - |

5、Time frame:2001-01-07 15:10:00+00:00--2012-01-06 10:00:00+00:00

6、Reference method

References to data:

JIA Li. The cloud-free NDVI data in the Heihe River Basin (2001-2011). A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.112.2013.db2014

References to articles:

Jia, L., Shang, H., Hu, G., Menenti, M. (2011). Phenological response of vegetation to upstream river flow in the Heihe Rive basin by time series analysis of MODIS data. Hydrology and Earth System Sciences, 15(3), 1047-1064, doi:10.5194/hess-15-1047-2011.

7、Supporting project information

8、Data resource provider

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