A Big Earth Data Platform for Three Poles

**Long term vegetation SPOT vegetation index dataset of the QinghaiLake River Basin (1998-2008)**

1、Description

The VEGETATION sensor sponsored by the European Commission was launched by SPOT-4 in March 1998. Since April 1998, SPOTVGT data for global vegetation coverage observation has been received by Kiruna ground station in Sweden. The image quality monitoring center in Toulouse, France is responsible for image quality and provides relevant parameters (such as calibration coefficient number). Finally, the Belgian flemish institute for technological research (Vito)VEGETATION processing Centre (CTIV) is responsible for preprocessing into global data of 1km per day. Pretreatment includes atmospheric correction, radiation correction, geometric correction, production of 10 days to maximize the synthesized NDVI data, setting the value of -1 to -0.1 to -0.1, and then converting to the DN value of 0-250 through the formula DN= (NDVI+0.1)/0.004.  
The dataset is a long-time series vegetation index dataset of Qinghai Lake Basin, which is mainly aimed at normalized difference vegetation index (NDVI). It includes spectral reflectance of four bands synthesized every 10 days from 1998 to 2008 and maximum NDVI for 10 days, with a spatial resolution of 1km and a temporal resolution of 10 days.

2、Keywords

Theme：vegetation index,Vegetation,NDVI,Terrestrial Surface Remote Sensing,SpotVegetation  
Discipline：Terrestrial Surface  
Places：Qinghai Lake Basin  
Time：1998-2008

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：30.5MB

4.Data format：栅格

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.42 | - |
| west：97.56 | - | east：101.45 |
| - | south：36.17 | - |

5、Time frame:None--None

6、Reference method

References to data:

Flemish Institute for Technological Research (VITO). Long term vegetation SPOT vegetation index dataset of the QinghaiLake River Basin (1998-2008). A Big Earth Data Platform for Three Poles, 2013

References to articles:

7、Supporting project information

8、Data resource provider

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