A Big Earth Data Platform for Three Poles

**HiWATER: Dataset of ASTER fractional vegetation cover in the crop land experimental area in the middle of Heihe River Basin form May to Sep, 2012**

1、Description

This data is the ASTER fractional vegetation cover in a growth cycle observed in the Yingke Oasis Crop land. Data observations began on May 30, 2012 and ended on September 12.
Original data:
1.15m resolution L1B reflectivity product of ASTER
2.Vegetation coverage data set of the artificial oasis experimental area in the middle reaches
Data processing:
1.Preprocessing of ASTER reflectance products to obtain ASTER NDVI;
2.Through the NDVI-FVC nonlinear transformation form, the ASTER NDVI and the ground measured FVC are used to obtain the conversion coefficients of NDVI to FVC at different ASTER scales.
3.Apply this coefficient to the ASTER image to obtain a vegetation coverage of 15m resolution;
4.Aggregate 15m resolution ASTER FVC to get 1km ASTER FVC product

2、Keywords

Theme：Vegetation,Vegetation cover,Satelite images,Terrestrial Surface Remote Sensing
Discipline：Terrestrial Surface
Places：Heihe River Basin, the artificial oasis experimental area in the middle reaches, crop land
Time：2012-08-18, 2012-08-11, 2012-09-03, 2012-07-10, 2012-09-12, 2012, 2012-05-30, 2012-06-24, 2012-08-02, 2012-08-27, 2012-06-15

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：61.5MB

4.Data format：文本, \*.xls

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.896 | - |
| west：100.328 | - | east：100.399 |
| - | south：38.843 | - |

5、Time frame:2012-06-12 00:00:00+00:00--2012-09-25 07:00:00+00:00

6、Reference method

References to data:

MA Mingguo. HiWATER: Dataset of ASTER fractional vegetation cover in the crop land experimental area in the middle of Heihe River Basin form May to Sep, 2012. A Big Earth Data Platform for Three Poles, doi:10.3972/hiwater.283.2015.db2016

References to articles:

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7、Supporting project information

Heihe Watershed Allied Telemetry Experimental Research (HiWATER)

8、Data resource provider

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