A Big Earth Data Platform for Three Poles

**Monthly FAPAR production at 1 KM in Heihe Rivers Basin (2012)**

1、Description

Firstly, the canopy reflectance is expressed as a function of a series of parameters, such as Lai / fAPAR, wavelength, soil and leaf reflectance, aggregation index, incidence and observation angle. For several key parameters, the parameter table is established as the input of inversion. Then input the surface reflectance data and land cover data after preprocessing, and use the LUT method to retrieve the fAPAR products. See the reference for detailed algorithm.   
Image format: TIF   
Image size: about 1m per scene   
Time frame: 2012   
Time resolution: month by month   
Spatial resolution: 1km

2、Keywords

Theme：Fraction of absorbed photosynthetically active radiation(FAPAR),Terrestrial Surface Remote Sensing  
Discipline：Terrestrial Surface  
Places：Heihe River Basin, whole basin  
Time：2012

3、Data details

1.Scale：800000

2.Projection：4326

3.Filesize：22.0MB

4.Data format：tif

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：42.6893038 | - |
| west：97.3520258 | - | east：102.1548642 |
| - | south：37.7401842 | - |

5、Time frame:2012-01-08 23:00:00+00:00--2013-01-07 23:00:00+00:00

6、Reference method

References to data:

FAN Wenjie. Monthly FAPAR production at 1 KM in Heihe Rivers Basin (2012). A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.088.2014.db2015

References to articles:

Liu, Y., Fan, W., Xu, X., & Chen, G. (2013). A new FAPAR retrieval model for continuous vegetation. Geoscience and Remote Sensing Symposium (IGARSS), 2013 IEEE International, 3052–3055.

7、Supporting project information

8、Data resource provider

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