A Big Earth Data Platform for Three Poles

**30m resolution leaf area index products over the Tibetan Plateau (2010-2019)**

1、Description

The dataset is the 30 meter resolution leaf area index (LAI) product from 2010 to 2019 over the Tibetan Plateau. The LAI product was retrieved using Landsat time series data and physically based radiative transfer model, and it is the annual maximum synthetic leaf area index product. When validated with the simulation data set, the root-mean-square error (RMSE) was 1.16. Leaf area index highly integrates the horizontal coverage and vertical structure of vegetation, and is an important structural parameter of the vegetation canopy, which can provide data product support for the research and applications in land surface process simulation, resources survey, ecological environment monitoring, global change research and other fields.

2、Keywords

Theme：Desert
Discipline：Terrestrial Surface,Remote Sensing Technology
Places：Qinghai Tibet Plateau
Time：2010-2019

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：71045.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：45.0 | - |
| west：70.0 | - | east：110.0 |
| - | south：20.0 | - |

5、Time frame:2009-12-31 16:00:00+00:00--2019-12-31 03:59:59+00:00

6、Reference method

References to data:

ZHANG Zhaoming. 30m resolution leaf area index products over the Tibetan Plateau (2010-2019). A Big Earth Data Platform for Three Poles, doi:10.11888/Ecolo.tpdc.2715322021

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

name: ZHANG Zhaoming
unit:
email: zhangzhaoming@aircas.ac.cn