A Big Earth Data Platform for Three Poles

**Remote sensing products of vegetation parameters in key areas of Qilian Mountains (2021)**

1、Description

This dataset includes the normalized difference vegetation index (NDVI), fractional vegetation cover (FVC), vegetation net primary productivity (NPP), grassland biomass, forest stock volume and vegetation parameter remote sensing products of key areas in the Qilian Mountains from May 2021 to October 2021, with a spatial resolution of 8m . This dataset uses remote sensing data sources such as Gaofen-1, Gaofen-6, Sentinel, and Resource-3, combined with basic data such as meteorology and ground monitoring, and uses the band ratio method, mixed pixel decomposition model, CASA model and other vegetation parameters to reflect Algorithms and models are used to generate remote sensing products of monthly vegetation indices in key areas of Qilian Mountains during the growing season. This dataset provides data support for the diagnosis of regional ecological environment problems and dynamic assessment of the ecological environment by constructing a high-resolution satellite-based ecological environment monitoring dataset with high spatial and temporal resolution.

2、Keywords

Theme：Vegetation coverage data,Gross primary productivity (GPP),NDVI,Biomass,Forest stock volume,Terrestrial Surface Remote Sensing
Discipline：Terrestrial Surface
Places：Qilian Mountain Nature Reserve
Time：In 2021

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：550000.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：40.0 | - |
| west：94.5 | - | east：103.5 |
| - | south：36.5 | - |

5、Time frame:2021-04-30 16:00:00+00:00--2021-10-31 03:59:59+00:00

6、Reference method

References to data:

ZHANG Jinlong, QI Yuan, CAO Yongpan, ZHOU Shengming, WANG Hongwei. Remote sensing products of vegetation parameters in key areas of Qilian Mountains (2021). A Big Earth Data Platform for Three Poles, doi:10.11888/Terre.tpdc.2725442022

References to articles:

Qi, Y., Lian, X.H., & Wang, H.W., et al. (2020). Dynamic mechanism between human activities and ecosystem services: a case study of Qinghai lake watershed, China. Ecological Indicators. 117, 106528.

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program

8、Data resource provider

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