A Big Earth Data Platform for Three Poles

**MODIS Terra 8-days products with 500m spatial resolution over the Tibetan Plateau (2020)**

1、Description

The dataset includes FPAR, GPP, NPP, evapotranspiration product and LAI product. FPAR product is and LAI product are obtained from the MODIS Terra MOD15A2H dataset, GPP and NPP product are obtained from the MOD15A2H dataset and evapotranspiration product is obtained from MODIS Terra MOD16A2 dataset of 2020 over the Tibetan Plateau,which is downloaded from USGS, and their formats are converted from .hdf to .tif by GDAL.The quality assessment files are also included for aboved products,and they are stored in an efficient bit-encoded manner.The MODIS products play an important role in forest, agriculture, ecology.

2、Keywords

Theme：Land-surface evapotranspiration,Gross primary productivity(NPP),Leaf area index(LAI),Terrestrial Surface Remote Sensing
Discipline：Terrestrial Surface
Places：Qinghai-Tibet Plateau
Time：2020

3、Data details

1.Scale：None

2.Projection：Albers

3.Filesize：2121.56MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：40.0 | - |
| west：73.0 | - | east：105.0 |
| - | south：25.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

GONG Chengjuan. MODIS Terra 8-days products with 500m spatial resolution over the Tibetan Plateau (2020). A Big Earth Data Platform for Three Poles, 2022

References to articles:

Myneni, R., Knyazikhin, Y., Park, T. (2015). MOD15A2H MODIS/Terra Leaf Area Index/FPAR 8-Day L4 Global 500m SIN Grid V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/MODIS/MOD15A2H.006

Running, S., Mu, Q., & Zhao, M. (2015). MOD17A2H MODIS/Terra Gross Primary Productivity 8-Day L4 Global 500m SIN Grid V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/MODIS/MOD17A2H.006

Running, S., Mu, Q., & Zhao, M. (2017). MOD16A2 MODIS/Terra Net Evapotranspiration 8-Day L4 Global 500m SIN Grid V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/MODIS/MOD16A2.006

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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