Upper Yangtze River Scientific Data Center

**Nighttime land surface temperature of MOD11B1 with six-kilometer spatial resolution for China (2012-2021)**

1、Description

The MOD11B1 surface temperature data set is the MODIS series surface temperature product. The data set is obtained after splicing, cutting, format and projection conversion based on the MOD11B1 product, reflecting the average surface temperature at night. The projection method of the data set is WGS84, the time resolution is daily, the spatial resolution is 0.0577 ° (about 6 km), the spatial range is the entire China region, the time range is 2012 to 2021, and the missing value is assigned as 0. Land surface temperature data is an important parameter for studying the land surface energy balance and land surface process. This data set can be used to analyze the change of land surface temperature in China in the past 10 years and to study the urban heat island effect, and to evaluate the dynamic changes of hydrology, climate and ecosystem in complex areas.

2、Keywords

Theme：Others,Land Surface Temperature
Discipline：Remote Sensing Technology
Places：China
Time：2012-2021

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：2488.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：53.5525243591377 | - |
| west：73.4469604492187 | - | east：135.108067734379 |
| - | south：18.1608963012695 | - |

5、Time frame:2011-12-31 16:00:00+00:00--2021-12-30 16:00:00+00:00

6、Reference method

References to data:

LANG Qin . Nighttime land surface temperature of MOD11B1 with six-kilometer spatial resolution for China (2012-2021). Upper Yangtze River Scientific Data Center, 2023

References to articles:

7、Supporting project information

8、Data resource provider

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