A Big Earth Data Platform for Three Poles

**A dataset of land surface temperature in the Aral Sea Basin (2015-2018)**

1、Description

Data content: surface temperature data of the Aral Sea basin from 2015 to 2018.
Data sources and processing methods: the first band of mod11a2 product was extracted from the NASA medium resolution imaging spectrometer as the surface temperature data, multiplied by the scale factor of 0.02.
Data quality: the spatial resolution is 1000m × 1000m, the temporal resolution is 8 days, and the value of each pixel is the average value of land surface temperature in 8 days.
Data application results: under the background of climate change, it can be used to analyze the correlation between meteorological elements and vegetation characteristics, and can also be combined with other meteorological data to analyze the regional distribution of a certain vegetation type.

2、Keywords

Theme：Atmosphere Remote Sensing,land surface temperature
Discipline：Atmosphere
Places：Aral Sea Basin
Time：2015-2018

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：271.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：47.12 | - |
| west：53.37 | - | east：78.21 |
| - | south：33.48 | - |

5、Time frame:2014-12-31 16:00:00+00:00--2018-12-30 16:00:00+00:00

6、Reference method

References to data:

LIU Tie. A dataset of land surface temperature in the Aral Sea Basin (2015-2018). A Big Earth Data Platform for Three Poles, 2021

References to articles:

7、Supporting project information

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

8、Data resource provider

name: LIU Tie
unit:
email: liutie@ms.xjb.ac.cn