A Big Earth Data Platform for Three Poles

**Cold and Arid Research Network of Lanzhou university (an observation system of Meteorological elements gradient of Sidalong Station, 2019)**

1、Description

The Land Surface Temperature in China STC dataset contains land surface temperature data for China (about 9.6 million square kilometers of land) during the period of 2003-2017, in Celsius, in monthly temporal and 5600 m spatial resolution.   
It is produced by combing MODIS daily data(MOD11C1 and MYD11C1), monthly data(MOD11C3 and MYD11C3) and meteorological station data to reconstruct real LST under cloud coverage in monthly LST images, and then a regression analysis model is constructed to further improve accuracy in six natural subregions with different climatic conditions.

2、Keywords

Theme：Precipitation,Meteorological element  
Discipline：Atmosphere,Ocean  
Places：Heihe River Basin  
Time：2019

3、Data details

1.Scale：None

2.Projection：

3.Filesize：5.08MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.428 | - |
| west：99.926 | - | east：99.926 |
| - | south：38.428 | - |

5、Time frame:2019-01-06 00:00:00+00:00--2019-04-17 00:00:00+00:00

6、Reference method

References to data:

ZHANG Renyi, ZHAO Changming. Cold and Arid Research Network of Lanzhou university (an observation system of Meteorological elements gradient of Sidalong Station, 2019). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2707932020

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

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