A Big Earth Data Platform for Three Poles

**This dataset of Aerosol optical thickness over the central and western part of China**

1、Description

This dataset includes the monthly AOD datasets from MODIS Aqua of the central and western part of China. By applying the Deep Blue (DB) and Dark Target (DT) algorithms over land, and the DT over-water algorithm, three types of AOD products at 550 nm are relseaed (e.g. Dark Target, Deep Blue and Merged AOD). In this project, monthly AOD products from July 2003 to November 2018 are collected, which can provide the informations of AOD and air pollutions over the central and western part of China.

2、Keywords

Theme：Aerosol,Aerosol optical depth/Thickness  
Discipline：Atmosphere  
Places：central and western part of China  
Time：2002-2018

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：48.6MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：55.0 | - |
| west：60.0 | - | east：120.0 |
| - | south：15.0 | - |

5、Time frame:2003-07-05 08:00:00+00:00--2018-12-04 08:00:00+00:00

6、Reference method

References to data:

SONG Zijue, XIA Xiangao. This dataset of Aerosol optical thickness over the central and western part of China. A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2703812020

References to articles:

Song, Z.J., Fu, D.S., Zhang, X.L., Han, X.l., Song, J.J, Zhang, J.Q, Wang, J., Xia, X.G. (2019). MODIS AOD sampling rate and its effect on PM2.5 estimation in North China. Atmos. Environ. 209, 14-22.

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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