A Big Earth Data Platform for Three Poles

**Data of aerosol types in the three polar region V1.0 (2006-2019)**

1、Description

The three pole aerosol type data product is an aerosol type result obtained by integrating the data assimilation of Meera 2 and the active satellite CALIPSO product through a series of data preprocessing, quality control, statistical analysis and comparative analysis. The key of this algorithm is to judge the type of CALIPSO aerosol. In the process of aerosol type data fusion, according to the type and quality control of CALIPSO aerosol, and referring to the type of merra 2 aerosol, the final aerosol type data (12 kinds in total) and quality control results in the three pole area are obtained. The data product fully considers the vertical distribution and spatial distribution of aerosols, with high spatial resolution (0.625 ° × 0.5 °) and time resolution (month).

2、Keywords

Theme：Aerosol  
Discipline：Atmosphere  
Places：Antarctica, The third pole, Arctic, three poles  
Time：2006-2019

3、Data details

1.Scale：None

2.Projection：

3.Filesize：500.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：90.0 | - |
| west：-180.0 | - | east：180.0 |
| - | south：-90.0 | - |

5、Time frame:2006-01-13 00:00:00+00:00--2019-02-12 00:00:00+00:00

6、Reference method

References to data:

ZHAO Chuanfeng. Data of aerosol types in the three polar region V1.0 (2006-2019). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2702642019

References to articles:

7、Supporting project information

CASEarth:Big Earth Data for Three Poles（grant No. XDA19070000）

8、Data resource provider

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