A Big Earth Data Platform for Three Poles

**Aerosol optical thickness data of the Arctic Alaska station V1.0 (2016-2019)**

1、Description

The aerosol optical thickness data of the Arctic Alaska station is based on the observation data products of the atmospheric radiation observation plan of the U.S. Department of energy at the Arctic Alaska station. The data coverage time is updated from 2016 to 2019, with the time resolution of hour by hour. The coverage site is the northern Alaska station, with the longitude and latitude coordinates of (71 ° 19 ′ 22.8 ″ n, 156 ° 36 ′ 32.4 ″ w). The source of the observed data is retrieved from the radiation data observed by mfrsr instrument. The characteristic variable is aerosol optical thickness, and the error range of the observed inversion is about 15%. The data format is NC format.

2、Keywords

Theme：Aerosol,Aerosol optical depth/Thickness
Discipline：Atmosphere
Places：Alaska
Time：2016-2019

3、Data details

1.Scale：None

2.Projection：

3.Filesize：300.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：71.32 | - |
| west：-156.51 | - | east：-156.51 |
| - | south：71.32 | - |

5、Time frame:2016-01-06 16:00:00+00:00--2019-02-05 16:00:00+00:00

6、Reference method

References to data:

ZHAO Chuanfeng. Aerosol optical thickness data of the Arctic Alaska station V1.0 (2016-2019). A Big Earth Data Platform for Three Poles, 2019

References to articles:

7、Supporting project information

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

8、Data resource provider

name: ZHAO Chuanfeng
unit: Beijing Normal University
email: czhao@bnu.edu.cn