A Big Earth Data Platform for Three Poles

**Dataset of PM2.5 aerosol particle concentration at different locations on Tibetan Plateau (2018)**

1、Description

This data set includes the mass concentration of atmospheric particles with the aerodynamic diameter less than 2.5 micron meters (PM2.5, unit: μg/m3), and the meteorological data such as temperature (Celsius degree), humidity (%) air pressure (hPa). PM2.5 aerosol particles can be floated in the atmosphere for a long time and can be transported to long range. It has important impact on the air quality and visibility, and is a essential index of air quality. The higher its concentration is, the more serious the air pollution. The PM2.5 data is produced at the interval of 5 min, which enable the key data for analysis on the spatiotemporal characteristics of atmospheric particles on the Tibetan Plateau on different tiem scale, such as hourly, daily, monthly and yearly.

2、Keywords

Theme：Aerosol  
Discipline：Atmosphere  
Places：Tibetan Plateau, HORN  
Time：2018

3、Data details

1.Scale：None

2.Projection：

3.Filesize：50.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：33.0 | - |
| west：79.0 | - | east：94.0 |
| - | south：28.0 | - |

5、Time frame:2018-06-24 08:00:00+00:00--2019-01-04 08:00:00+00:00

6、Reference method

References to data:

WU Guangjian. Dataset of PM2.5 aerosol particle concentration at different locations on Tibetan Plateau (2018). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2703172019

References to articles:

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program  
Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

name: WU Guangjian  
unit: Institute of Tibetan Plateau Research, Chinese Academy of Sciences  
email: wugj@itpcas.ac.cn