A Big Earth Data Platform for Three Poles

**Data set of aerosol number concentration and particle size spectrum at Shiquanhe station in Ali area (2019)**

1、Description

The data set contains the number concentration and size distribution spectrum of particles in the atmosphere of Shiquanhe national climate station (32 ° 30'n, 80 ° 05'e, elevation 4278.6 m) in Ali Region. The instrument is tsi-3321 aerodynamic particle size spectrometer (APS), with 52 particle size channels. The observation period is from July 7, 2019 to August 2, 2019, and the time resolution is 5 minutes. The size distribution spectra of aerosol volume concentration and mass concentration can be obtained by using the data, aerosol spherical hypothesis and aerosol density, and then the characteristics of aerosol particle size distribution in the northwest of Qinghai Tibet Plateau can be studied.

2、Keywords

Theme：Aerosol,Aerosol particle properties  
Discipline：Atmosphere  
Places：the Qinghai-Tibet Pleatu  
Time：2019

3、Data details

1.Scale：None

2.Projection：

3.Filesize：4.15MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：33.17 | - |
| west：79.07 | - | east：81.1 |
| - | south：30.58 | - |

5、Time frame:2019-08-12 16:00:00+00:00--2019-09-07 16:00:00+00:00

6、Reference method

References to data:

SHI Jinsen, ZHANG Lei, HUANG Jianping, TIAN Pengfei. Data set of aerosol number concentration and particle size spectrum at Shiquanhe station in Ali area (2019). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2709462020

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

name: HUANG Jianping  
unit:   
email: hjp@lzu.edu.cn  
  
name: TIAN Pengfei  
unit:   
email: tianpf@lzu.edu.cn  
  
name: SHI Jinsen  
unit:   
email: shijs@lzu.edu.cn  
  
name: ZHANG Lei  
unit:   
email: zhanglei@lzu.edu.cn