A Big Earth Data Platform for Three Poles

**The dataset of OC and BC/EC in TIbetan Plateau and surrounding areas (2013-2019)**

1、Description

This dataset includes the concentrations and spatial pattern of organic carbon (OC) and Elemental carbon (EC) in the carbonaceous aerosol (CA) of the Tibetan Plateau and surroundings. OC and EC were measured by Desert Research Institute Model 2001 Thermal/Optical Carbon Analyzer. The limit of detection (LOD) for OC and EC were 0.43 and 0.12 ug/cm2, respectively. In addition, MAC was also calculated for assessing the effect of EC. This dataset will provide the informations of CA contamination and background values over the Tibetan Plateau and surroundings.

2、Keywords

Theme：Carbonaceous aerosols,Aerosol
Discipline：Atmosphere
Places：Qinghai-Tibetan Plateau, the Himalaya mountains
Time：, 2013-2019

3、Data details

1.Scale：None

2.Projection：

3.Filesize：12.1MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.8 | - |
| west：67.0 | - | east：103.9 |
| - | south：24.9 | - |

5、Time frame:2013-04-05 16:00:00+00:00--2019-02-15 16:00:00+00:00

6、Reference method

References to data:

The dataset of OC and BC/EC in TIbetan Plateau and surrounding areas (2013-2019). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2704202020

References to articles:

Chen, P., Kang, S., Li, C., Zhang, Q., Guo, J., Tripathee, L., Zhang, Y., Li, G., Gul, C., Cong, Z., Wan, X., Niu, H., Panday, A., Rupakheti, M., & Ji, Z. (2019). Carbonaceous aerosol characteristics on the Third Pole: A primary study based on the Atmospheric Pollution and Cryospheric Change (APCC) network. Environmental Pollution, 253, 49-60.

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program

8、Data resource provider