A Big Earth Data Platform for Three Poles

**Dataset of historical black carbon reconstruction from the lake sediments of the Himalayan-Tibetan Plateau (1853-2015)**

1、Description

Black carbon is an important light absorbing substance, which has an important impact on climate change. This data set contains the data of black carbon concentration and sedimentation flux in the core of six lakes (gun Yong lake, Tanggula lake, linggecuo, Ranwu lake, gokyo, gosainkunda) on the Qinghai Tibet Plateau and the south slope of the Himalayas. The carbon concentration of Huxin black was determined by digestion filtration thermoluminescence method. This dataset is an excel file, which can be opened directly by using Excel. This data set is helpful to study the history of atmospheric black carbon deposition in the Qinghai Tibet Plateau and its surrounding areas and to further analyze the sources of atmospheric black carbon. It can be used as the basic data for the study of atmospheric black carbon transport and climate effect assessment.

2、Keywords

Theme：Carbonaceous aerosols,Aerosol,Lacustrine Sediments,Sediments
Discipline：Atmosphere,Palaeoenvironment
Places：Qinghai-Tibetan Plateau, the Himalaya mountains
Time：1851-2018

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：14.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：34.0 | - |
| west：85.0 | - | east：96.0 |
| - | south：27.0 | - |

5、Time frame:1853-01-09 02:16:55+00:00--2016-01-08 00:00:00+00:00

6、Reference method

References to data:

KANG Shichang. Dataset of historical black carbon reconstruction from the lake sediments of the Himalayan-Tibetan Plateau (1853-2015). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2704182020

References to articles:

7、Supporting project information

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

8、Data resource provider

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