A Big Earth Data Platform for Three Poles

**The data of oxygen isotope, dust, anion and accumulation of the Dasuopu Ice Core on the Tibetan Plateau (1997)**

1、Description

This data set comprises the oxygen isotope, dust, anion and accumulation data of the two ice cores drilled from the Dasuopu glacier on the Tibetan Plateau in 1997. The depth of the Dasuopu ice core 2(C2) is 149.2 meters, while that of the Dasuopu ice core 3(C3) is 167.7 meters. C3 was drilled from the top of the glacier, and C2 was drilled 100 meters below.  
The data set contains 3 tables: the oxygen isotope, dust, and main anion average data of Dasuopu ice core 3 (1450-1996), the 10-year of oxygen isotope, dust, and main anion average data of Dasuopu ice core 3 (1000-1996), and the accumulation data of Dasuopu ice cores 2 and 3（1442-1996）.   
Source of the data：National Centers for Environmental Information（http://www.ncdc.noaa.gov/data-access/paleoclimatology-data/datasets/ice-core）   
Table 1：The annual average data of oxygen isotope, dust, and main anion of Dasuopu ice core 3 (1450-1996)   
a. Name interpretation   
Field 1：time  
Field 2：oxygen isotope   
Field 3：dust (diameter 0.63-20 um)   
Field 4：Cl-   
Field 5：NO3-   
Field 6：SO42-   
b. Dimension（unit of measurement）   
Field 1：dimensionless   
Field 2：‰  
Field 3：particles/mL  
Field 4：ppb  
Field 5：ppb   
Field 6：ppb   
Table 2：The 10-year oxygen isotope, dust, and main anion data of Dasuopu ice core 3 (1000-1996)   
a. Name interpretation   
Field 1：start time  
Field 2：end time   
Field 3：oxygen isotope   
Field 4：dust (diameter 0.63-20 um)   
Field 5：Cl-   
Field 6：NO3-  
Field 7：SO42-   
b. Dimension（unit of measurement）   
Field 1：dimensionless   
Field 2：dimensionless  
Field 3：‰   
Field 4：particles/mL   
Field 5：ppb   
Field 6：ppb   
Field 7：ppb  
Table 3：the accumulation data of Dasuopu ice cores 2 and 3 （1442-1996）   
a. Name interpretation   
Field 1：time  
Field 2：ice core 2   
Field 3：ice core 3   
B. Dimension （unit of measurement）   
Field 1：dimensionless   
Field 2：cm/yr   
Field 3：cm/yr

2、Keywords

Theme：Isotopes,Ice core,Ice-core,Glacier(Ice Sheet)  
Discipline：Palaeoenvironment,Cryosphere  
Places：Tibetan Plateau , Dasuopu glacier  
Time：1997, 1000-1996

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.1MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：28.0 | - |
| west：85.0 | - | east：85.0 |
| - | south：28.0 | - |

5、Time frame:1000-01-08 10:05:29+00:00--1997-01-07 08:00:00+00:00

6、Reference method

References to data:

YAO Tandong. The data of oxygen isotope, dust, anion and accumulation of the Dasuopu Ice Core on the Tibetan Plateau (1997). A Big Earth Data Platform for Three Poles, doi:10.11888/Glacio.tpdc.2700652018

References to articles:

Thompson, L.G., Yao, T.D., Mosley-Thompson, E., Davis, M.E., Henderson, K.A., &Lin,P.N. (2000). A high-resolution millennial record of the South Asian Monsoon from Himalayan ice cores. Science, 289(5486), 1916-1919.

7、Supporting project information

8、Data resource provider

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