A Big Earth Data Platform for Three Poles

**Precipitation stable isotopes data in Bomi (2008)**

1、Description

The data includes the daily mean value of stable isotope δ18O in precipitation, the air temperature and precipitation amounts in Bomi in 2008; the precipitation samples are collected by Bomi meteorological station, and the stable isotope of precipitation is measured at the Laboratoire des Sciences du Climat et de l’Environnement, France., The δ18O amounts were measured by equilibration on a MAT-252 mass spectrometer, with an analytical precision of 0.05‰. The air temperatures and precipitation amounts were recorded for each precipitation events at Bomi meteorological stations, through the average of the observed temperature before and after the precipitation event, and through the total precipitation amount for each event.
The data study has been published in the Journal of Climate, entitled Precipitation Water Stable Isotopes in the South Tibetan Plateau: Observations and Modeling.

2、Keywords

Theme：Precipitation,Stable hydrogen and oxygen isotope,Atmospheric circulation,Humidity/Dryness,Hydrology,Water Quality/Water Chemistry
Discipline：Atmosphere,Terrestrial Surface
Places：South Tibetan Plateau
Time：2008

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.04MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：30.66 | - |
| west：94.0 | - | east：96.5 |
| - | south：29.35 | - |

5、Time frame:2008-02-28 00:00:00+00:00--2009-02-27 11:59:59+00:00

6、Reference method

References to data:

GAO Jing. Precipitation stable isotopes data in Bomi (2008). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2709382020

References to articles:

Gao, J., Masson-Delmotte, V., Yao, T., Tian, L., Risi, C., & Hoffmann, G. (2011). Precipitation water stable isotopes in the south Tibetan Plateau: observations and modeling. Journal of Climate, 24(13), 3161-3178.

7、Supporting project information

the External Cooperation Program of the Chinese Academy of Sciences
the National Natural Science Foundation of China

8、Data resource provider

name: GAO Jing
unit: Institute of Tibetan Plateau Research, Chinese Academy of Sciences
email: gaojing@itpcas.ac.cn