A Big Earth Data Platform for Three Poles

1、Description

This data set is the oxygen isotope data ( δ 18O) and its temperature reconstruction from the Chongce ice cores, in western Kunlun Mountains, Northwestern Tibetan Plateau. The Chongce ice cores were dated back to 7 ka BP by a two-parameter flow model (2p model) constrained by the AMS 14C ages. The δ 18O measurements were performed at Nanjing University by a Wavelength Scanned Cavity Ring-Down Spectrometer (WS-CRDS, model: Picarro L2120-i), with the analytical uncertainty of less than 0.1‰. Our reconstructed temperature record shows a long-term warming trend until ~2 ka BP, followed by an abrupt change to a relatively cool period until the start of the industrial-era warming. In addition, the record shows that temperatures during the recent decades are almost the highest during the past 7 ka BP, highlighting the unusual warming forced by anthropogenic greenhouse gases.

2、Keywords

Theme：Ice-core
Discipline：Palaeoenvironment
Places：Chongce Ice Cap, Northwestern Tibetan Plateau
Time：past 7,000 years

3、Data details

1.Scale：None

2.Projection：GCS\_China\_Geodetic\_Coordinate\_System\_2000

3.Filesize：0.02MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：35.27 | - |
| west：81.08 | - | east：81.14 |
| - | south：35.22 | - |

5、Time frame:None--None

6、Reference method

References to data:

Hongxi Pang, PANG Hongxi. Chongce ice core oxygen isotopes and temperature reconstruction over the past 7000 years. A Big Earth Data Platform for Three Poles, doi:10.11888/Paleoenv.tpdc.2709112020

References to articles:

7、Supporting project information

8、Data resource provider

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