A Big Earth Data Platform for Three Poles

**Millennial precipitation datasets over the three poles produced by paleoclimate data assimilation**

1、Description

(1) Data content: data set of precipitation field of the three poles (Arctic, Antarctic and Qinghai Tibet Plateau) in the past millennium; (2) Data source and processing method: the data is independently produced by the author and is produced by assimilating the precipitation proxy data in the three polar regions through the paleoclimate data assimilation method; (3) Data quality description: there is a high degree of spatial-temporal consistency between the data set and the precipitation data sets measured by multiple instruments (correlation coefficient is above 0.35, P < 0.001; Nash efficiency coefficient is above 0.3). In addition, the correlation coefficient with multiple precipitation data series reconstructed based on proxy data is between 0.2 and 0.6 (P < 0.001); (4) It can be used to study the temporal and spatial changes of precipitation in the past millennium in the three polar regions.

2、Keywords

Theme：Paleoclimate Reconstruction
Discipline：Palaeoenvironment
Places：Arctic, Antarctic and Qinghai Tibet Plateau
Time：Past millennium

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：44.5MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：90.0 | - |
| west：-180.0 | - | east：180.0 |
| - | south：-90.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

FANG Miao. Millennial precipitation datasets over the three poles produced by paleoclimate data assimilation. A Big Earth Data Platform for Three Poles, doi:10.11888/Paleoenv.tpdc.2727742022

References to articles:

7、Supporting project information

CASEarth:Big Earth Data for Three Poles（grant No. XDA19070000）

8、Data resource provider

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