A Big Earth Data Platform for Three Poles

**Simulation results of the influence of Holocene greenhouse gases on westerlies and monsoons**

1、Description

The Holocene single greenhouse gas concentration change simulation results (11.5-0 ka) data set is based on the Earth system model CESM model (horizontal resolution: about 2° for the atmosphere and land surface module; about 1° for the ocean and sea ice module), carry out the Holocene transient simulation test considering the change of greenhouse gas concentration. The spatial resolution is 2°; the spatial range: North: 90°N, South: 90°S, West: -180°, East: 180°; the regional range is global; the time range is Holocene. The simulation results can be used to study Holocene changes of westerly-monsoon in Eurasia under the influence of individual greenhouse gas concentration changes.

2、Keywords

Theme：Winds,westerly-monsoon
Discipline：Atmosphere,Palaeoenvironment
Places：Eurasia
Time：Holocene

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：1207.0MB

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:

TIAN Zhiping, ZHANG Ran. Simulation results of the influence of Holocene greenhouse gases on westerlies and monsoons. A Big Earth Data Platform for Three Poles, doi:10.11888/Atmos.tpdc.2719222021

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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