A Big Earth Data Platform for Three Poles

**Future climate projection of China based on regcm4.6 (2007-2099)**

1、Description

Effective evaluation of future climate change, especially prediction of future precipitation, is an important basis for formulating adaptation strategies. This data is based on the RegCM4.6 model, which is compatible with multi-model and different carbon emission scenarios: CanEMS2 (RCP 45 and RCP85), GFDL-ESM2M (RCP2.6, RCP4.5, RCP6.0 and RCP8.5), HadGEM2-ES (RCP2.6, RCP4.5 And RCP8.5), IPSL-CM5A-LR (RCP2.6, RCP4.5, RCP6.0 and RCP8.5), MIROC5 (RCP2.6, RCP4.5, RCP6.0 and RCP8.5). The future climate data (2007-2099) has 21 sets, with a spatial resolution at 0.25 degrees and the temporal resolution at 3 hours (or 6 hours), daily and yearly scales.

2、Keywords

Theme：Precipitation,Temperature,Precipitation amount,Air temperature
Discipline：Atmosphere
Places：China
Time：2007-2099, Future Climate Projection

3、Data details

1.Scale：None

2.Projection：

3.Filesize：6500000.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：54.0 | - |
| west：70.0 | - | east：135.0 |
| - | south：3.0 | - |

5、Time frame:2007-01-10 16:00:00+00:00--2100-01-09 16:00:00+00:00

6、Reference method

References to data:

ZHANG Lei, PAN Xiaoduo. Future climate projection of China based on regcm4.6 (2007-2099). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2709982020

References to articles:

Pan, X.D., Zhang, L., Huang, C.L. (2020). Future Climate Projection in Northwest China with RegCM4.6, Earth and Space Science, doi: 10.1029/2019EA000819.

7、Supporting project information

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8、Data resource provider

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