A Big Earth Data Platform for Three Poles

**CAS FGOALS-f3-H and CAS FGOALS-f3-L outputs for the high-resolution model intercomparison project simulation of CMIP6**

1、Description

Large-ensemble simulations of the atmosphere-only time-slice experiments for the Polar Amplification Model Intercomparison Project (PAMIP) were carried out by the model group of the Chinese Academy of Sciences (CAS) Flexible Global Ocean-Atmosphere-Land System (FGOALS-f3-L). Eight groups of experiments forced by different combinations of the sea surface temperature (SST) and sea ice concentration (SIC) for pre-industrial, present-day, and future conditions were performed and published. The time-lag method was used to generate the 100 ensemble members, with each member integrating from 1 April 2000 to 30 June 2001 and the first two months as the spin-up period. All of these model datasets will contribute to PAMIP multi-model analysis and improve the understanding of polar amplification.

2、Keywords

Theme：Temperature,Sea Ice,Winds,CMIP6,Air temperature,wind speed
Discipline：Atmosphere,Cryosphere
Places：Arctic
Time：hour

3、Data details

1.Scale：None

2.Projection：

3.Filesize：16081446.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：90.0 | - |
| west：0.0 | - | east：180.0 |
| - | south：-90.0 | - |

5、Time frame:2000-03-31 16:00:00+00:00--2000-06-29 16:00:00+00:00

6、Reference method

References to data:

HE Bian . CAS FGOALS-f3-H and CAS FGOALS-f3-L outputs for the high-resolution model intercomparison project simulation of CMIP6. A Big Earth Data Platform for Three Poles, doi:10.11888/Atmos.tpdc.2729142022

References to articles:

He, B., Zhang, X., & Duan, A., et al. (2021). CAS FGOALS-f3-L Large-ensemble Simulations for the CMIP6 Polar Amplification Model Intercomparison Project. Advances in Atmospheric Sciences, 38(6), 1028-1049.

7、Supporting project information

8、Data resource provider

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