A Big Earth Data Platform for Three Poles

**Antarctic sea ice density CMIP6 estimation dataset (2020-2100)**

1、Description

This data is the simulation of Antarctic sea ice density data from 2020 to 2100 under the medium emission scenario (ssp245) of the 6th International Coupled Model Comparison Program (CMIP6). The 25 mode data of CMIP6 were uniformly interpolated and then aggregated averaged. The size of sea ice density data is 0-1, the data time range is from January 2020 to December 2100, the time resolution is month, the spatial range is south of 45 ° S, and the spatial resolution is 1 ° × 1°。 This data provides the status and evolution of Antarctic sea ice under the medium emission scenario, and can provide reference for future changes in Antarctica.

2、Keywords

Theme：Sea Ice,CMIP6,Sea ice concentration  
Discipline：Cryosphere  
Places：Antarctic  
Time：ssp245

3、Data details

1.Scale：None

2.Projection：

3.Filesize：60.08MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：-45.5 | - |
| west：-179.5 | - | east：179.5 |
| - | south：-89.5 | - |

5、Time frame:None--None

6、Reference method

References to data:

WANG Hui , LI Shuanglin. Antarctic sea ice density CMIP6 estimation dataset (2020-2100). A Big Earth Data Platform for Three Poles, doi:10.11888/Cryos.tpdc.2729022022

References to articles:

Eyring, V., Bony, S., Meehl, G.A., Senior, C.A., Stevens, B., Stouffer, R.J., & Taylor, K.E. (2016). Overview of the Coupled Model Intercomparison Project Phase 6 (CMIP6) experimental design and organization, Geosci. Model Dev., 9, 1937-1958, doi:10.5194/gmd-9-1937-2016.

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program

8、Data resource provider

name: LI Shuanglin  
unit: Institute of Atmospheric Physics, CAS  
email: shuanglin.li@cug.edu.cn  
  
name: WANG Hui   
unit: China University of Geosciences  
email: hui.wang@cug.edu.cn