A Big Earth Data Platform for Three Poles

**Antarctic sea ice extent reconstruction over the past 200 years**

1、Description

(1) Data content: data set of Antarctic sea ice extent (Northernmost Latitude of Sea Ice Edge (NLSIE) [°N]) in the past 200 years; (2) Data source and processing method: the data is generated based on the statistical model using six annual resolution proxies (ice core MSA, accumulation rate, etc.); (3) Data quality description: annual resolution; Areas: Indian and western Pacific sector of the Southern Ocean (50 ° – 150 ° E, indwpac), Ross Sea (160 ° E – 140 ° W, RS), Amundsen Sea (90 ° – 140 ° W, as), Bellingshausen Sea (50 ° – 90 ° W, BS), Weddell Sea (50 ° W – 20 ° E, WS); (4) It can be used to study the interdecadal variability of Antarctic sea ice.

2、Keywords

Theme：Sea Ice  
Discipline：Cryosphere  
Places：Antarctic  
Time：1810-2009, Year

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.03MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：-50.0 | - |
| west：-180.0 | - | east：180.0 |
| - | south：-80.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

YANG Jiao . Antarctic sea ice extent reconstruction over the past 200 years. A Big Earth Data Platform for Three Poles, doi:10.11888/Cryos.tpdc.2728032022

References to articles:

Yang, J., Xiao, C., Liu, J., Li, S., & Qin, D. (2021). Variability of Antarctic sea ice extent over the past 200 years. Science Bulletin, 66(23), 2394-2404.

7、Supporting project information

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

8、Data resource provider

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