A Big Earth Data Platform for Three Poles

**Global Respiration from TaiESM1 Model in Phase 6 of the Coupling Model Comparison Plan (1850-2014)**

1、Description

This dataset is global respiration data, including autotrophic respiration (ra) and heterotrophic respiration (rh). It is simulated by TaiESM1 model in Phase 6 of the Coupling Model Comparison Plan (CMIP6) under historical scenarios. The data time range is 1850-2014, the time resolution is month, and the spatial resolution is about 0.9 ° x1.25 °. Analog Data Details Visible Link https://www.wdc-climate.de/ui/cmip6?input=CMIP6.CMIP.AS -RCEC.TaiESM1.historical。

2、Keywords

Theme：Carbon flux,Soil,Vegetation,Soil respiration,Autotrophic respiration  
Discipline：Terrestrial Surface  
Places：globe  
Time：1850-2014

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：195.0MB

4.Data format：None

4、Space scope

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

5、Time frame:1850-01-01 13:48:26+00:00--2014-12-31 03:59:59+00:00

6、Reference method

References to data:

Program for Climate Model Diagnosis and Intercomparison (PCMDI). Global Respiration from TaiESM1 Model in Phase 6 of the Coupling Model Comparison Plan (1850-2014). A Big Earth Data Platform for Three Poles, 2022

References to articles:

7、Supporting project information

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

8、Data resource provider

name: Program for Climate Model Diagnosis and Intercomparison (PCMDI)  
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