A Big Earth Data Platform for Three Poles

**Atmospheric forcing dataset along the Belt and Road (2000-2015)**

1、Description

The atmospheric forcing dataset for along the Belt and Road from 2000 to 2015 comes from CRUNCEP. CRUNCEP is an atmospheric forcing dataset used forcing the land surface models. Specifically, this long time series data set (including temperature, precipitation, temperature, etc.) is used to drive the Community Land Model (CLM) Land Model in the long term. The CRUNCEP is a combination of two existing datasets; the CRU TS3.2 0.5 X 0.5 monthly data covering the period 1901 to 2002 and the NCEP reanalysis 2.5 X 2.5 degree 6-hourly data covering the period 1948 to 2016. The CRUNCEP dataset has been used to force CLM for studies of vegetation growth, evapotranspiration, and gross primary production and for the TRENDY (trends in net land-atmosphere carbon exchange over the period 1980-2010) project, among many other use cases. The CRUNCEP data archived in this dataset is Version 7.

2、Keywords

Theme：Precipitation,Temperature,Winds  
Discipline：Atmosphere  
Places：Countries along the 'Belt and Road'  
Time：2000-2015

3、Data details

1.Scale：None

2.Projection：

3.Filesize：1.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：56.0 | - |
| west：4.0 | - | east：121.0 |
| - | south：6.0 | - |

5、Time frame:2000-01-10 08:00:00+00:00--2000-01-10 08:00:00+00:00

6、Reference method

References to data:

The National Center for Atmospheric Research, CAO Wei. Atmospheric forcing dataset along the Belt and Road (2000-2015). A Big Earth Data Platform for Three Poles, 2019

References to articles:

7、Supporting project information

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

8、Data resource provider

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