A Big Earth Data Platform for Three Poles

**Temperature and precipitation dataset of WRF model in Northwest China (1979-2013)**

1、Description

This data is the NCEP/DOE reanalysis data of 6h interval nested downscaling by WRF model in northwest China to a horizontal resolution of 12km, 364 grid points in the east-west direction, 251 grid points in the north-south direction and 31 layers in the vertical direction. The simulation time starts from 1979-01-01,06:00:00 and ends at 2013-12-31,23:00:00. The parameterization schemes of the model are as follows: Kain Frisch cumulus convection scheme, WSM3 cloud microphysics scheme, RRTM long wave scheme, Dudhia short wave scheme, Noah land surface model, YSU planetary boundary layer scheme.  
The file naming rules in the data set are: wrf\_t2\_YYYY.nc and wrf\_rain\_YYYY.nc, where YYYY is the annual abbreviation, t2 is the 2m temperature (unit ℃), and rain is the total surface precipitation (unit mm).

2、Keywords

Theme：Precipitation,Temperature  
Discipline：Atmosphere  
Places：Northwestern China  
Time：1979-2013

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：9000.0MB

4.Data format：栅格

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：56.0 | - |
| west：69.0 | - | east：140.0 |
| - | south：15.0 | - |

5、Time frame:1979-01-08 00:00:00+00:00--2014-01-07 11:59:59+00:00

6、Reference method

References to data:

BAI Lei. Temperature and precipitation dataset of WRF model in Northwest China (1979-2013). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2705702016

References to articles:

7、Supporting project information

8、Data resource provider

name: BAI Lei  
unit:   
email: caecar1986@qq.com