Upper Yangtze River Scientific Data Center

**Meteorological forcing data with one-kilometer spatial resolution simulated by WRF model for Chongqing (2020)**

1、Description

The data set is simulated by WRF model driven by ERA5 reanalysis data, and three layers of nesting (9km, 3km and 1km) are used for simulation. The variables in this data set include near surface pressure (hPa), 10m wind speed (m/s), 2m temperature (℃), 2m relative humidity (%), downlink short wave radiation (W/m-2), downlink long wave radiation (W/m-2), and precipitation (mm/h). The data is in NETCDF format, with a temporal resolution of 1 hour, a horizontal spatial resolution of 1 km, and a Lambert projection. This dataset can provide high spatial and temporal resolution atmospheric driving data for the simulation of land surface processes in Chongqing, a complex mountain area.

2、Keywords

Theme：Precipitation,Radiation,Temperature  
Discipline：Atmosphere  
Places：Chongqing, China  
Time：2020

3、Data details

1.Scale：None

2.Projection：Lambert\_Conformal\_Conic

3.Filesize：143360.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：32.8 | - |
| west：104.3 | - | east：111.0 |
| - | south：27.7 | - |

5、Time frame:2019-12-31 16:00:00+00:00--2020-12-30 16:00:00+00:00

6、Reference method

References to data:

LANG Qin . Meteorological forcing data with one-kilometer spatial resolution simulated by WRF model for Chongqing (2020). Upper Yangtze River Scientific Data Center, 2022

References to articles:

7、Supporting project information

8、Data resource provider

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