A Big Earth Data Platform for Three Poles

**Monthly potential evapotranspiration data set based on the Penman-Monteith formula of 1km on the Zoige Plateau (1980-2018)**

1、Description

A monthly data set of potential evapotranspiration based on the Penman-Monteith formula (1980-2018) of 1km on the Zoige Plateau. We collected daily meteorological data from 1980 to 2018 from the Meteorological Data Sharing Center of China Meteorological Administration, calculated daily-scale potential evapotranspiration through the Penman-Monteith equation, and accumulated daily-scale potential evapotranspiration to obtain monthly and annual potential evapotranspiration (PET mm/month) , Through the Anusplin professional meteorological interpolation software, the multi-year average annual temperature (MAT) and annual average precipitation (MAP) calculated by each meteorological station are interpolated to obtain a 1km resolution spatial data set.

2、Keywords

Theme：Desert
Discipline：Atmosphere,Terrestrial Surface
Places：Ruoergai Plateau
Time：1980-2018

3、Data details

1.Scale：None

2.Projection：

3.Filesize：89.9MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：34.8 | - |
| west：100.75 | - | east：103.63 |
| - | south：31.85 | - |

5、Time frame:None--None

6、Reference method

References to data:

HU Jian. Monthly potential evapotranspiration data set based on the Penman-Monteith formula of 1km on the Zoige Plateau (1980-2018). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2714962021

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

name: HU Jian
unit:
email: Jianhu@swun.edu.cn