A Big Earth Data Platform for Three Poles

**An evapotranspiration dataset based on upscaling eddy covariance observations over the dryland of the North China Plain (2001-2015)**

1、Description

Accurate evapotranspiration (ET) estimation is important for understanding hydrological cycle and water resources management in the cropland. Based on eight flux sites within the North China Plain (NCP) and the surrounding area, which were integrated together for the first time, we applied support vector regression method to develop ET dataset for the cropland in NCP from 2001 to 2015 with 1km spatial resolution and eight-day temporal interval.

2、Keywords

Theme：Latent heat flux,Evapotranspiration,Radiation,Hydrology
Discipline：Atmosphere,Terrestrial Surface
Places：The North China Plain
Time：2001-2015

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：790.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：40.0 | - |
| west：112.0 | - | east：124.0 |
| - | south：32.0 | - |

5、Time frame:2000-12-31 16:00:00+00:00--2015-12-30 16:00:00+00:00

6、Reference method

References to data:

LEI Huimin. An evapotranspiration dataset based on upscaling eddy covariance observations over the dryland of the North China Plain (2001-2015). A Big Earth Data Platform for Three Poles, doi:10.11888/Hydro.tpdc.2716612021

References to articles:

Fang, B. J., Lei, H. M., Zhang, Y. C., Quan, Q., & Yang, D. W. (2020). Spatio-temporal patterns of evapotranspiration based on upscaling eddy covariance measurements in the dryland of the North China Plain. Agricultural and Forest Meteorology, 281. doi:ARTN 10784410.1016/j.agrformet.2019.107844

7、Supporting project information

The National Natural Science Foundation

8、Data resource provider

name: LEI Huimin
unit:
email: leihm@tsinghua.edu.cn