A Big Earth Data Platform for Three Poles

**A literature-based eddy covariance carbon exchange dataset on the Tibetan Plateau**

1、Description

(1) This is a literature-based eddy covariance carbon exchange dataset on the Tibetan Plateau, including air temperature, soil temperature, precipitation, ecosystem productivity and other parameters. (2) The data set is based on the field measured data of vorticity, and adopts the internationally recognized standard processing method of vorticity related data. The basic process includes: outlier elimination coordinate rotation WPL correction storage item calculation precipitation synchronization data elimination threshold elimination outlier elimination U \* correction missing data interpolation flux decomposition and statistics. This data set also contains the model simulation data calibrated based on the vorticity correlation data set. (3) the data set has been under data quality control, and the data missing rate is 37.3%, and the missing data has been supplemented by interpolation. (4) The data set has scientific value for understanding carbon sink function of alpine wetland, and can also be used for correction and verification of mechanism model.

2、Keywords

Theme：Radiation,Carbon dioxide flux
Discipline：Atmosphere
Places：Tibetan Plateau
Time：21 Century

3、Data details

1.Scale：None

2.Projection：

3.Filesize：60.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：40.0 | - |
| west：74.0 | - | east：102.0 |
| - | south：26.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

Da Wei. A literature-based eddy covariance carbon exchange dataset on the Tibetan Plateau. A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2712112021

References to articles:

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program
Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

name: Da Wei
unit: Institute of Mountain Hazards and Environment (IMHE), Chinese Academy of Sciences
email: weida@imde.ac.cn