A Big Earth Data Platform for Three Poles

**Eddy Covariance Data for an Alpine Marshland in Shenzha**

1、Description

(1) This data set is the carbon flux data set of Shenzha alpine wetland from 2016 to 2019, 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：Precipitation,Radiation,Temperature,Vegetation,Rainfall capacity,Marsh,Carbon dioxide flux,Near surface temperature,Heterotrophic respiration,Wetland
Discipline：Atmosphere,Terrestrial Surface
Places：Alpine region of China, Qinghai-Tibet Plateau, Qiang-tang Plateau
Time：Growing season, non-growing season

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：0.1MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：30.57 | - |
| west：88.41 | - | east：88.41 |
| - | south：30.57 | - |

5、Time frame:2016-08-18 08:00:00+00:00--2019-09-17 08:00:00+00:00

6、Reference method

References to data:

Da Wei. Eddy Covariance Data for an Alpine Marshland in Shenzha. A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2708082020

References to articles:

Yahui Qi, Da Wei \*, Hui Zhao, Xiaodan Wang \*. Carbon sink of a very high marshland on the Tibetan Plateau. Under Review.

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program

8、Data resource provider

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