A Big Earth Data Platform for Three Poles

**Dataset of surface solar radiation and meteorological elements at Qianyanzhouin, Taihe county, Jiangxi Province, China (2013-2016)**

1、Description

Solar global and direct radiation are measured by radiation sensors (Model TBQ-4-1, TBS-2, China), and temperature and humidity are measured by a HOBO weather station (Model H21, onset company, USA). This dataset is solar radiation and meteorological variables, including solar globla and direct radiation in the wavelength range of 270-3200nm, unit: w/m2. The units of temperature, humidity and water vapor pressure are ℃, %, hPa, respectively. The dataset of solar radiation and meteorological elements come from the measurements of data providers. Data coverage time is 2013-2016. The data set can be used to study the solar radiation and its change mechanism in a subtropical region, China.

2、Keywords

Theme：Precipitation,Radiation,Temperature,Shortwave radiation,Air temperature,Meteorological element
Discipline：Atmosphere
Places：Taihe county, Jiangxi province
Time：2013-2016

3、Data details

1.Scale：None

2.Projection：

3.Filesize：1.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：90.0 | - |
| west：0.0 | - | east：26.7 |
| - | south：0.0 | - |

5、Time frame:2013-05-28 16:00:00+00:00--2017-01-06 16:00:00+00:00

6、Reference method

References to data:

BAI Jianhui. Dataset of surface solar radiation and meteorological elements at Qianyanzhouin, Taihe county, Jiangxi Province, China (2013-2016). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2703442020

References to articles:

Bai, J.H., Guenther, A., Turnipseed, A., Duhl, T., & Greenberg, J. (2017). Seasonal and interannual variations in whole-ecosystem BVOC emissions from a subtropical plantation in China. Atmospheric Environment, 161, 176–190. https://doi.org/https://doi.org/10.1016/j.atmosenv.2017.05.002.

7、Supporting project information

CASEarth:Big Earth Data for Three Poles（grant No. XDA19070000）

8、Data resource provider

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