A Big Earth Data Platform for Three Poles

**Dataset of meteorological elements of Nagqu Station of Plateau Climate and Environment (2014-2017)**

1、Description

This dataset is derived from the Nagqu Station of Plateau Climate and Environment (31.37N, 91.90E, 4509 a.s.l), Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences. The ground is flat, with open surrounding terrain. An uneven growth of alpine steppe, with a height of 3–20 cm. The observation time of this dataset is from January 1, 2014 to December 31, 2017. The observation elements primarily included the wind speed, air temperature, air relative humidity, air pressure, downward shortwave radiation, precipitation, evaporation, latent heat flux and CO2 flux. The precipitation , evaporation and CO2 flux data are daily cumulative values, and the other variables are daily average values. The observed data are generally continuous, but some data are missing due to power supply failure, and the missing data in this dataset are marked as NAN.

2、Keywords

Theme：Precipitation,Radiation,Temperature,Winds,Humidity/Dryness,Pressure
Discipline：Atmosphere
Places：Tibetan Plateau, Naqu
Time：daily

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.11MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：31.37 | - |
| west：91.9 | - | east：91.9 |
| - | south：31.37 | - |

5、Time frame:2014-01-09 16:00:00+00:00--2018-01-08 16:00:00+00:00

6、Reference method

References to data:

HU Zeyong, GU Lianglei, WANG Shujin, SUN Fanglei. Dataset of meteorological elements of Nagqu Station of Plateau Climate and Environment (2014-2017). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2700102019

References to articles:

马耀明, 姚檀栋, 胡泽勇, & 王介民. (2009). 青藏高原能量与水循环国际合作研究的进展与展望. 地球科学进展, 24(11), 1280-1284.

7、Supporting project information

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

8、Data resource provider

name: WANG Shujin
unit: Cold and Arid Regions Environmental and Engineering Research Institute, CAS
email: wangshj2013@lzb.ac.cn

name: SUN Fanglei
unit:
email: fanglin.sun@gmail.com

name: GU Lianglei
unit:
email: gull@lzb.ac.cn

name: HU Zeyong
unit: Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
email: zyhu@lzb.ac.cn