A Big Earth Data Platform for Three Poles

**The climate datasets of the urbanized area on Tibetan plateau (2019)**

1、Description

The dataset contains observed climate data (1/1/2019-12/31/2019) from two automatic meteorological station located in the Qinghai Lake Basin. The niaodao station (36°58′N，99°52′E) is located in Gonghe County, Hainan Prefecture, Qinghai Province, and the wayanshan station (37°44′ N，100°05′ E) is located in Gangcha County, Haibei Prefecture, Qinghai Province. The observed elements include air temperature (℃) and relative humidity (%) at three layers (1m, 5m, and 10m), atmospheric pressure (hPa), and photosynthetically active radiation (W/m2). Both stations use CR1000 to collect climate data and record it every half an hour, the air temperature and humidity were measured by hmp155a, the atmospheric pressure was measured by CS106 and the photosynthetically active radiation was measured by LI200R. Our dataset will support the study of optimizing the ecological security barrier system in the key urbanized areas of the Tibetan Plateau.

2、Keywords

Theme：Maximum/Minimum temperature,Precipitation,Temperature,Humidity/Dryness,Meteorological element
Discipline：Atmosphere
Places：Qinghai Lake Basin
Time：2019

3、Data details

1.Scale：None

2.Projection：

3.Filesize：2.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：37.5 | - |
| west：97.5 | - | east：101.5 |
| - | south：36.4 | - |

5、Time frame:None--None

6、Reference method

References to data:

CHEN Kelong, CHEN Zhirong. The climate datasets of the urbanized area on Tibetan plateau (2019). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2713052021

References to articles:

张乐乐, 高黎明, 陈克龙. (2018). 青海湖流域瓦颜山湿地辐射平衡和地表反照率变化特征.冰川冻土, 40(06), 1216-1222.

高黎明, 张乐乐, 陈克龙, 毛亚辉. (2018). 青海湖流域高寒湿地光合有效辐射特征.干旱区研究, 35(01), 50-56.

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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