A Big Earth Data Platform for Three Poles

**Meteorological data set of Ngari Station for Desert Environment Observation and Research (2019-2020)**

1、Description

This data set records the meteorological data in the observation field of Ngari Station for Desert Environment Observation and Research (33 ° 23.42 ′ N, 79 ° 42.18 ′ E, 4270 m asl) from 2019 to 2020, with a time resolution of days. It includes the following basic parameters: air temperature (℃), relative humidity (%), wind speed (m/s), wind direction (°), air pressure (hPa), precipitation (mm), water vapor pressure (kPa), downward short wave radiation (W/m^2), Upward short wave radiation (W/m^2), Downward long wave radiation(W/m^2), Upward long wave radiation(W/m^2), Net radiation(W/m^2), Surface albedo (%), soil temperature (℃), soil water content (%).
Sensor model of observation instrument: atmospheric temperature and humidity: HMP45C; Precipitation: t200-b; Wind speed and direction: Vaisala 05013; Net radiation: Kipp Zonen NR01; Air pressure: Vaisala PTB210; Soil temperature: 109 temperature probe; Soil moisture content: CS616. Data collector: CR1000. The time resolution of the original data is 30 min.
The data can be used by scientific researchers engaged in meteorology, atmospheric environment or ecology.

2、Keywords

Theme：Maximum/Minimum temperature,Precipitation,Temperature,Winds,Rain gauge,wind speed
Discipline：Atmosphere
Places：Ngari
Time：2019-2020

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.17MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：33.39 | - |
| west：79.7 | - | east：79.7 |
| - | south：33.39 | - |

5、Time frame:2018-12-31 16:00:00+00:00--2020-12-31 03:59:59+00:00

6、Reference method

References to data:

ZHAO Huabiao. Meteorological data set of Ngari Station for Desert Environment Observation and Research (2019-2020). A Big Earth Data Platform for Three Poles, doi:10.11888/Atmos.tpdc.2719742022

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

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