A Big Earth Data Platform for Three Poles

**Meteorological observation data from the integrated observation and research station of the alpine environment in Southeast Tibet (2007-2017)**

1、Description

This data set includes daily average data of atmospheric temperature, relative humidity, precipitation, wind speed, wind direction, net radiance, and atmospheric pressure from 1 January 2007 to 31 December 2016 derived from the Integrated Observation and Research Station of the Alpine Environment in Southeast Tibet.
The data set has been used by students and researchers in the fields of meteorology, atmospheric environment and ecological research.
The units of the various meteorological elements are as follows: temperature °C; precipitation mm; relative humidity %; wind speed m/s; wind direction °; net radiance W/m2; pressure hPa; and particulate matter with aerodynamic diameter less than 2.5 μm μg/m3.
All the data are the daily averages calculated from the raw observations. Observations and data collection were carried out in strict accordance with the instrument operating specifications and the guidelines published in relevant academic journals; data with obvious errors were eliminated during processing, and null values were used to represent the missing data.
In 2015, due to issues related to the age of the observation probe at the station, only the wind speed data for the last 8 months were retained.

2、Keywords

Theme：Precipitation,Radiation,Temperature,Winds,Precipitation amount,Humidity/Dryness,Pressure,Atmospheric Water Vapor
Discipline：Atmosphere
Places：Southeast Tibet, Tibetan Plateau
Time：2007-2017

3、Data details

1.Scale：None

2.Projection：

3.Filesize：3.0MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：29.7625 | - |
| west：94.7383 | - | east：94.7383 |
| - | south：29.7625 | - |

5、Time frame:2007-01-12 00:00:00+00:00--2018-01-11 00:00:00+00:00

6、Reference method

References to data:

Luo Lun. Meteorological observation data from the integrated observation and research station of the alpine environment in Southeast Tibet (2007-2017). A Big Earth Data Platform for Three Poles, doi:10.11888/AtmosphericPhysics.tpe.68.db2018

References to articles:

王永杰, 马耀明, 朱志鹍, & 李茂善. (2010). 藏东南地区鲁朗河谷近地层气象要素变化特征. 高原气象, 29(1), 63-69.

7、Supporting project information

8、Data resource provider

name: Luo Lun
unit: Institute of Tibetan Plateau Research, CAS
email: luolun@itpcas.ac.cn