Upper Yangtze River Scientific Data Center

**Observation data of automatic weather station of Jinfo National Station and Citrus Research Institute (2020)**

1、Description

This data is from the observation data of the automatic weather station at the orchard observation site of the National Field Scientific Observation and Research Station of Karst Ecosystem in Jinfo Mountain, Chongqing (E106.3817569 °; N29.76232 °, 231m above sea level) from January 1 to December 31, 2020. The air temperature and relative humidity sensors of the automatic weather station in Hutou Village are respectively set up at 3m and 9m, facing due north; The barometer is installed at 10m; The tipping bucket rain gauge is installed at 10m; The wind speed and direction sensors are respectively set at 3m and 9m; The four component radiometer is installed at 5m, facing south; Photosynthetically active radiation sensor is installed at 5m and 10m, facing south; The soil temperature probes are buried 10cm, 20cm, 40cm, 60cm, 80cm, 120cm and 160cm underground, and are located in the south of the meteorological tower 2m away; The soil moisture probe shall be buried at 2cm, 5cm, 10cm, 20cm, 40cm, 60cm and 80cm underground, in the south of the meteorological tower 2m away; The soil heat flux plates (3 pieces) are successively buried at 5cm, 10cm and 20cm below the ground, just south of the meteorological tower 2m away; The average soil temperature probes (3) are buried at 5cm, 10cm and 20cm underground, and are located in the south of the meteorological tower 2m away. 1440 groups of data are observed every day (every 1min). If data is missing, it is indicated by NAN.

2、Keywords

Theme：Soil moisture dataset,Winds,Humidity/Dryness,wind speed  
Discipline：Atmosphere  
Places：Jinfo Mountain National Station Citrus Institute  
Time：2020

3、Data details

1.Scale：None

2.Projection：

3.Filesize：214.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：29.76232 | - |
| west：106.3817569 | - | east：106.3817569 |
| - | south：29.76232 | - |

5、Time frame:2019-12-31 16:00:00+00:00--2020-12-30 16:00:00+00:00

6、Reference method

References to data:

KONG Debing . Observation data of automatic weather station of Jinfo National Station and Citrus Research Institute (2020). Upper Yangtze River Scientific Data Center, 2022

References to articles:

7、Supporting project information

8、Data resource provider

name: KONG Debing   
unit: Southwest University  
email: kongdebing@swu.edu.cn