Upper Yangtze River Scientific Data Center

**Observation data of automatic weather station on Jinfoshan National Station slot (2021)**

1、Description

This data is from the observation data of the automatic weather station at the Cuoshang Farmland Conversion Observation Site (E106.4424794 °; N29.78747 °, 591m above sea level) of the National Field Scientific Observation and Research Station of Jinfo Mountain Karst Ecosystem in Chongqing from January 1 to December 31, 2021. The air temperature and relative humidity sensors of the automatic weather station on the trough are respectively set up at 3m and 10m, facing north; The barometer is installed at 10m; The tipping bucket rain gauge is installed at 10m; The wind speed and direction sensors are set at 2m and 10m respectively; 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 at 2cm, 5cm, 10cm, 20cm, 40cm, 60cm and 80cm 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 probe (1) is buried 5cm underground and is located in the south 2m away from the meteorological tower. 144 groups of data are observed every day (every 10min). If there is any missing data, it is indicated by NAN.

2、Keywords

Theme：Soil moisture dataset,Winds,Humidity/Dryness,wind speed  
Discipline：Atmosphere  
Places：Caoshang Village of Jinfo Mountain National Station  
Time：2021

3、Data details

1.Scale：None

2.Projection：

3.Filesize：17.2MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：29.78747 | - |
| west：106.4424794 | - | east：106.4424794 |
| - | south：29.78747 | - |

5、Time frame:2020-12-31 16:00:00+00:00--2021-12-30 16:00:00+00:00

6、Reference method

References to data:

KONG Debing . Observation data of automatic weather station on Jinfoshan National Station slot (2021). 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