

# 氣候觀測資料查詢服務—觀測資料說明

## Climate Observation Data Inquiry Service - Observational Data Description

### 一、資料來源 / Data Sources

1. 署屬(有人)氣象站 CWA Weather Station.
2. 自動氣象/雨量站 Automatic Weather Station / Automatic Precipitation Station.
3. 農業氣象站 Agricultural Weather Station.

### 二、測站編碼說明 / Explanation of Station Codes

1. 「46」開頭：署屬(有人)氣象站。

Prefix "46": CWA Weather Station.

2. 「C0」開頭：自動氣象站。

Prefix "C0": Automatic Weather Station.

3. 「C1」開頭：自動雨量站。

Prefix "C1": Automatic Precipitation Station.

4. 「C2」開頭：農業氣象站。

Prefix "C2": Agricultural Weather Station.

5. 第六碼：代表測站曾遷移的次數。

Sixth character: Indicates the number of times the station has been relocated.

### 三、資料內容 / Data Content

站種 / Station type	觀測項目 / observation parameters
署屬(有人)氣象站 CWA Weather Station	測站氣壓、海平面氣壓、氣溫、露點溫度、相對溼度、風速、風向、最大瞬間風、最大瞬間風風向、降水量、降水時數、日照時數、全天空日射量、能見度、A型蒸發量、紫外線指數、總雲量、地溫。 Station Pressure, Sea Surface Pressure, Temperature, Dew Point Temperature, Relative Humidity, Wind Speed, Wind Direction, Maximum Gust, Maximum Gust Direction, Precipitation, Precipitation Hours, Sunshine Duration, Global Solar Radiation, Visibility, Class A Evaporation, UVI, Cloud Amount, Soil Temperature.
自動氣象站 Automatic Weather Station	測站氣壓、氣溫、相對溼度、風速、風向、最大瞬間風、最大瞬間風風向、降水量。 Station Pressure, Temperature, Relative Humidity, Wind Speed, Wind Direction, Maximum Gust, Maximum Gust Direction, Precipitation
自動雨量站 Automatic Precipitation Station	降水量。 Precipitation

農業氣象站 Agricultural Weather Station	測站氣壓、海平面氣壓、氣溫、露點溫度、相對溼度、風速、風向、最大瞬間風、最大瞬間風風向、降水量、全天空日射時數、全天空日射量、地溫。 Station Pressure, Sea Surface Pressure, Temperature, Dew Point Temperature, Relative Humidity, Wind Speed, Wind Direction, Maximum Gust, Maximum Gust Direction, Precipitation, Global Solar Duration, Global Solar Radiation, Soil Temperature.
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#### 四、符號說明 / Symbols

1. T：微量 (<0.5mm) precipitation trace amount
2. x：儀器故障 malfunction
3. &：降水量累積至後續資料 precipitation accumulated later
4. V：風向不定 wind direction variable
5. /：不明 unknown
6. --：無觀測 no observation

#### 五、特殊說明 / Special Notes

1. 高於 762 公尺之測站（例：日月潭、阿里山、玉山），其「海平面氣壓」以重力位高度表示。  
 For stations located above 762 meters (e.g., Sun Moon Lake, Alishan, Yushan), the “sea-level pressure” is expressed using geopotential height.
2. 逐時資料之風速、風向為觀測時(整點)前 10 分鐘之平均，最大瞬間風速為觀測時(整點)前 1 小時內最大瞬間風速。當風速 $\leq 0.2\text{m/s}$ 時，風向記為 0，而北風記為 360。  
 The wind speed (WS), wind direction (WD) in the hourly data represent the 10-minute average prior to the observation time (on the hour). The maximum gust (WSGust) is the maximum instantaneous wind speed within the preceding hour. When the wind speed is  $\leq 0.2 \text{ m/s}$ , the wind direction (WD) is recorded as 0; a northerly wind is recorded as 360.
3. 日蒸發量為負值表示量測期間（當日 9 時至隔一日 9 時）有降雨。  
 A negative daily evaporation value means that rainfall occurred during the measurement period (from 09:00 LST on the current day to 09:00 LST on the following day).
4. 全天空日射時數係以全天空日射量 $\geq 120\text{W/m}^2$ 之累積時間作為推算值。  
 The Global Solar Duration is an estimated value calculated based on the accumulated time during which the global solar radiation is  $\geq 120 \text{ W/m}^2$ .
5. 當儀器故障或通訊不良時，會造成氣象資料的缺漏。  
 Data may be missing due to instrument malfunctions or communication failure.
6. 前日的氣象資料會在 12:00PM 前匯入。若需即時的氣象資料，請至氣象署觀測網頁查詢。  
 Weather observation data are updated to the CODiS system by 12:00 noon on the following day. For real-time weather information, please visit the CWA Observation Website:  
 ([https://www.cwa.gov.tw/V8/C/W/OBS\\_County.html?ID=menu](https://www.cwa.gov.tw/V8/C/W/OBS_County.html?ID=menu))

#### 六、署屬(有人)氣象站觀測業務轉型 / CWA Weather Station Observation of Business Transformation

1. 2025/1/1 起：蒸發量改為自動觀測。  
 2026/1/1 起：能見度改為自動觀測、總雲量改為衛星推估。  
 Starting from January 1, 2025: Evaporation will be measured automatically;

Starting from January 1, 2026: Visibility will be measured automatically, and total cloud cover will be estimated using satellite imagery.

2. 蒸發量觀測：利用壓力感測來推算液體的高度，藉由感測器偵測水壓的變化知道水位的變化，並採用通氣壓力補償設計，可減少天氣或海拔影響。

Evaporation observation: The liquid level is estimated using a pressure sensor. Changes in water level are detected by monitoring pressure variations, and a vented pressure compensation design is employed to minimize the effects of weather or altitude.

3. 能見度觀測：以大氣透明度推算氣象光學範圍 (MOR)，範圍 10 公尺至 75 公里。

Visibility observation: The meteorological optical range (MOR) is estimated from atmospheric transparency, with a range of 10 meters to 75 kilometers.

4. 總雲量觀測：以衛星影像推估，透過雲遮像素比例計算總雲量。

Cloud amount observation: Estimated using satellite imagery, with total cloud cover calculated based on the proportion of cloud-obscured pixels.

#### 七、使用提醒 / Disclaimer

本系統資料僅供參考，使用時請留意限制與說明。

The data provided by CODiS is for reference only.