

Share data to Citizens Weather Observer Program

Setting up 1 to 15-minute weather data

Who can send this data? If you are currently running an automated weather station and uploading the data to the Internet, and run the WeatherLinkIP or WeatherLink or similar software, then we would love to see your data every 15-minutes (weatherlinkIP has 15 minute push to MADIS but regular WeatherLink is as frequent as 1 minute data). WeatherLinkIP requires Ethernet and legacy WeatherLink requires a dedicated PC with internet. New in 2020, **WeatherLink Live Wifi (recommended)** allows you to share data with no cables and no PC! The data can still be shared every 15 minutes with options (subscription) to share at a higher frequency. Data is uploaded to a national server as **Citizens Weather Observer Program** (CWOP) and APRS. All shared data will be archived on NOAA MADIS/Mesowest. This is different from Weather Underground, WeatherFlow or WeatherBug.

Where to begin? Sign up for free and get an ID from CWOP!

<http://wxqa.com/> (CWOP)

<http://findu.com/>

<https://aprs.fi/weather/>

<https://aprs.fi/#!lat=33.10620&lng=-117.29470>

If location is incorrect try contacting CWOP-support@noaa.gov

Where is the data?

NOAA runs MADIS (national data server) and feeds Mesowest and the NWS observation page.

<https://www.weather.gov/wrh/hazards> (recommended)

Thousands of real-time observations are found using “surface observations”. These are also archived so this page will display historical data.

The University of Utah runs Mesowest which displays the same data.

<https://mesowest.utah.edu/index.html>

https://mesowest.utah.edu/cgi-bin/droman/raws_ca_monitor.cgi?state=SGX&rawsflag=1

Advantages: The only way we can see true weather fluctuations and microscale events (thunderstorms, sea breeze, rotors, breaking waves, fronts, dust devils, diurnal effects, etc) and high and low temperatures is to view the finer temporal resolution.

Example of a weather station in Carlsbad at DW5683 on any of those maps linked above. **The data is archived every 15 minutes** so you can easily retrieve any date since it was first live in 2008.

Verify your data is uploading to CWOP and NWS page

1. CWOP will take about a week for the data to be active on ARPS (see maps).

<https://aprs.fi/weather/?call=DW5683> or <http://www.findu.com/cgi-bin/wxpage.cgi?call=dw5683>

2. View surface observations on this map <https://www.weather.gov/wrh/hazards>

3. Download the WeatherLink app for your phone and enjoy live data from anywhere!