

# Citizens Weather Observing Program (CWOP)

## Configuration for *MeteoHub*\* Users

\*Including *WeatherHub* and *WeatherPlug* versions

(Last updated: 13 August 2016)

### 1.) Gather Station Location Data

- You will need your Latitude and Longitude in decimal degrees, and Elevation in metres.
- See the How-To “Signing up for CWOP” for methods to obtain your station location data:

[www.weather.gov/media/epz/mesonet/CWOP-SignUp.pdf](http://www.weather.gov/media/epz/mesonet/CWOP-SignUp.pdf)

### 2.) Get a CWOP Station ID:

With any web browser, fill out the form at:

[http://www.findu.com/citizenweather/cw\\_form.html](http://www.findu.com/citizenweather/cw_form.html)

The CWOP website is a little “old-fashioned” and unpolished, and it contains far more information than the average user needs. Don’t worry about the parts of the form mentioning “Packet Checking” and “MADIS tech support.”

#### CITIZEN WEATHER PROGRAM REGISTRATION FORM

To obtain a DW number fill in the form below. You will receive an e-mail reply with your assigned number (similar to "DW1234").

If you have questions, please contact your software provider, or send email to [Randy at NOAA](mailto:Randy@NOAA). Several different ways to check your data packets are at [Packet Checking](#)

If you also send your weather data to another internet site, please contact [MADIS technical support](#) so they will be aware of the possibility of duplicate data.

Thank you for participating in the Citizen Weather Program!

First name	<input type="text" value="John"/>
Last name	<input type="text" value="Doe"/>
email	<input type="text" value="johndoe@anonymous.net"/>
Nearby town	<input type="text" value="Hurricane"/>
State (country if outside US)	<input type="text" value="WV"/>
Zip Code (if US)	<input type="text" value="25526"/>
Elevation	<input type="text" value="215"/> (meters above sea level)

- Make sure you use a valid email address (don’t worry – no SPAM).
- If you are a business or agency, you may wish to use its name in place of “First Name” and “Last Name.” Otherwise, use whoever will be the primary contact.
- If you need help with any of these steps, or finding your location or elevation, send an email to: [cwop-support@noaa.gov](mailto:cwop-support@noaa.gov)

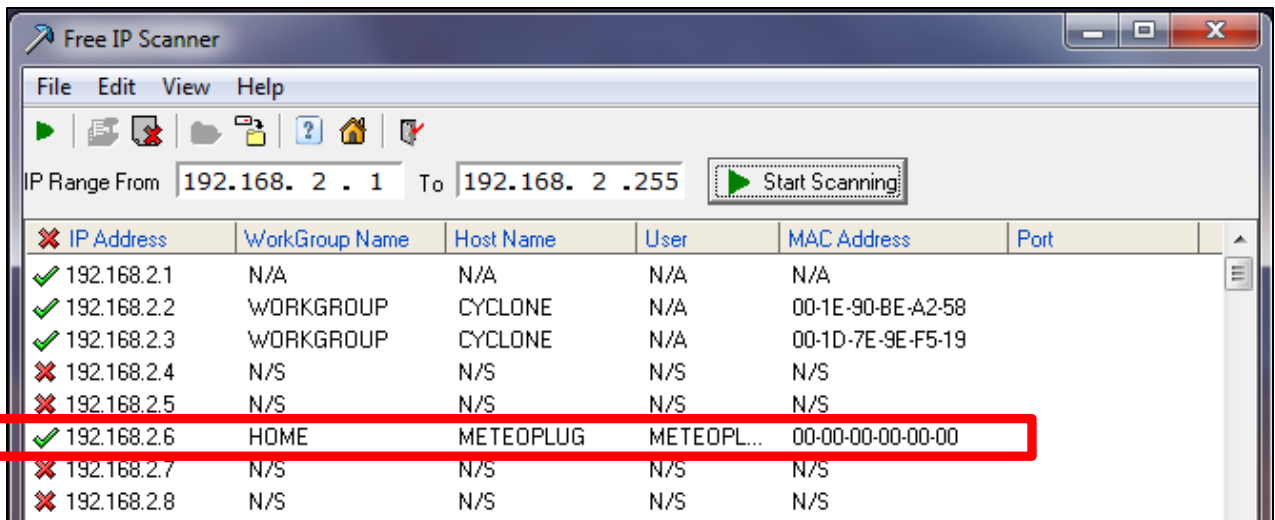
## 2.) Send the form, then make note of your CWOP Station ID:

**Your Citizen's Weather Account Number is: DWxxxx**

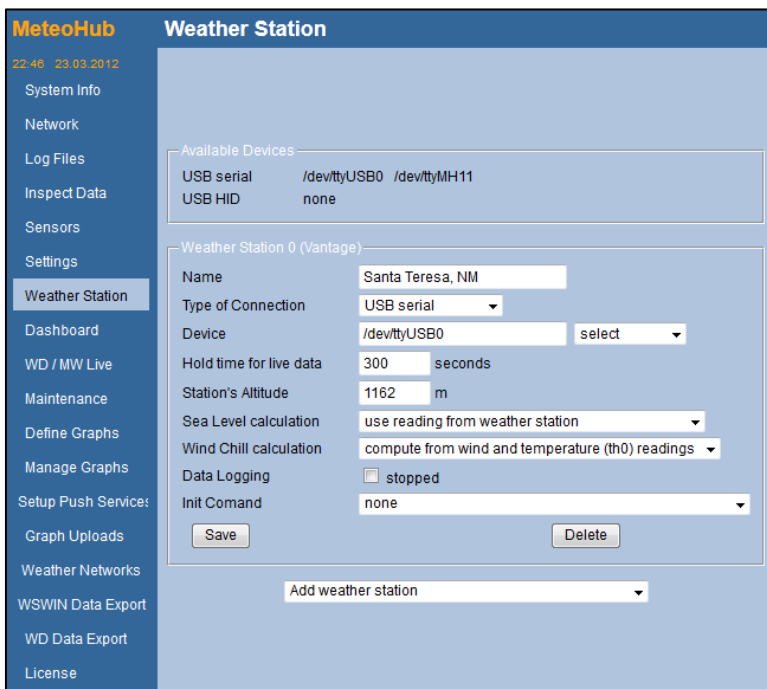
An email will be sent to John Doe (johndoe@anonymous.net) confirming this number.

## 3.) Connect to Meteohub software through a web browser:

- This assumes you've already physically setup your Meteohub – see Meteohub documentation for more information.
- If you forgot the IP Address assigned to your Meteohub, run the IP Scanner tool software that came packaged with the Meteohub. The meteohub will have the hostname "METEOPLUG."



- Next, simply type the IP Address into your favorite web browser, in this case Meteohub was found to have the IP Address 192.168.2.6.



## 4.) Setup Weather Station

When the Meteohub portal comes up, click on 'Weather Station' on the left-side menu.

Ensure your station is properly set up (see Meteohub documentation for specifics) and type in the correct altitude (above sea level) in meters.

Under "Sea Level calculation" choose "use reading from weather station."

**MeteoHub** Sensors

22:49 23.03.2012

System Info  
Network  
Log Files  
Inspect Data  
**Sensors**  
Settings  
Weather Station  
Dashboard

Station 0 (Vantage): Santa Teresa, NM

Type	#	ID	Name	Last Signal	Sensor Data
wind	0	wind0		1 sec	0.4(1.3)m/s W
rain	0	rain0		18 sec	0.0mm/h
indoor	0	thb0		18 sec	25.0°C 23% 880.8mb (1017.5mb) fc:3
outdoor	0	th0		18 sec	15.7°C 21%

5.) Go to the "Sensors" page.

- Ensure all your sensors are selected and reporting current data.
- Make changes if needed, then click "Save."

6.) Go to the "Settings" page.

- Under "Time Zone" select your local \*Standard Time\* (MST for Mountain Standard)
- Under Localization, set your Latitude and Longitude.
- Click "Save" when finished.

**MeteoHub** Settings

22:52 23.03.2012

System Info  
Network  
Log Files  
Inspect Data  
Sensors  
**Settings**  
Weather Station  
Dashboard  
WD / MW Live  
Maintenance  
Define Graphs  
Manage Graphs  
Setup Push Services  
Graph Uploads  
Weather Networks  
WSWIN Data Export  
WD Data Export  
License

**Date and Time**

Time Zone: MST

Date & Time: Local Time: 23.03.2012 22:52:28 UTC: 24.03.2012 05:52:28

New Date & Time:  MMDDhhmmYYYY or MMDDhhmm

Time Server: 0.pool.ntp.org NTP1 1.pool.ntp.org NTP2

Weather Time Zone:  use local time instead of UTC

Logging Mode:  immediate logging (warning: increased flash wear)

Radio Clock: Station-0: Vantage (Santa Teresa, NM)

**Localization**

Language: English  use imperial units

Position: Latitude 31 ° 52 ' 7 " North  
Longitude 106 ° 38 ' 55 " West

**Meteoplug Server**

Data Upload Interval: none

Live Data Interval: none

Station name on map:

**Calibration:  $f(x) = a*x + b$**

Sensor	Unit	Factor (a)	Offset (b)	From Date in UTC (YYYYMMDDhhmmss)
<input type="text"/>				

Save

# 7.) Go to the "Weather Networks" page.

- Click the checkbox next to 'CWOP, and type in your CWOP Station ID.
- Scroll down to the section called "Selection of sensors to be used." Select sensors, typically:

- Outdoor Temp = th0 ()**
- Outdoor Humidity = th0 ()**
- Dewpoint = th0 ()**
- Pressure = thb0 ()**
- Wind = wind0 ()**
- Rain = rain0 ()**

Under the section "Frequency of Updates" ... set the drop-down box labeled "Update every" to 5 minutes.

Finally, click "Save."

**MeteoHub** 22.51 23.03.2012

**Upload of local weather data to Weather Networks**

Selection of Weather Networks

Weather Network	Additional Information
<input type="checkbox"/> <a href="#">HETWEERACTUEEL</a>	file=heweeraetueel.txt
<input type="checkbox"/> <a href="#">Wetterpage24</a>	file=wetterpage24.txt, date/time='standard'
<input type="checkbox"/> <a href="#">Wetterpool</a>	file=wp_werte.txt, mode=WSWIN
<input type="checkbox"/> <a href="#">Borgvejr DK</a>	Authentication by e-mail source address
<input type="checkbox"/> <a href="#">Regiowetter</a>	ID <input type="text"/>
<input type="checkbox"/> <a href="#">Wetterring</a>	ID <input type="text"/>
<input type="checkbox"/> <a href="#">Wetterspiegel</a>	ID <input type="text"/> file=wetterspiegel.txt
<input type="checkbox"/> <a href="#">Meteoclimatic</a>	ID <input type="text"/> file=meteoclimatic.txt, date=CET
<input checked="" type="checkbox"/> <a href="#">CWOP</a>	ID DWxxxx
<input type="checkbox"/> <a href="#">APRS</a>	ID <input type="text"/> Server :14580#-1
<input type="checkbox"/> <a href="#">METEONEWS</a>	ID f0-ad-4e-00-0c-80 Password <input type="text"/>
<input type="checkbox"/> <a href="#">WEDAAL</a>	ID <input type="text"/> Password <input type="text"/>
<input type="checkbox"/> <a href="#">Windfinder</a>	ID <input type="text"/> Password <input type="text"/>
<input type="checkbox"/> <a href="#">Regiowetter-BW</a>	ID <input type="text"/> Password <input type="text"/>
<input type="checkbox"/> <a href="#">Sauerlandwetter</a>	ID <input type="text"/> Password <input type="text"/>
<input type="checkbox"/> <a href="#">SH-Netz</a>	ID <input type="text"/> Password <input type="text"/>
<input type="checkbox"/> <a href="#">AWEKAS</a>	ID <input type="text"/> Password <input type="text"/>
<input type="checkbox"/> <a href="#">Wetterarchiv</a>	ID <input type="text"/> Password <input type="text"/>
<input type="checkbox"/> <a href="#">HAMweather</a>	ID <input type="text"/> Password <input type="text"/>
<input type="checkbox"/> <a href="#">MetOffice WOW</a>	ID <input type="text"/> Password <input type="text"/>
<input type="checkbox"/> <a href="#">AnythingWeather.com</a>	ID <input type="text"/> Password .....
<input type="checkbox"/> <a href="#">Weatherflow</a>	ID <input type="text"/> Password <input type="text"/>
<input type="checkbox"/> Weatherflow in "rapid fire" mode. Frequency: every <input type="text" value="30 seconds"/>	
<input checked="" type="checkbox"/> <a href="#">Weather Underground</a>	ID KNMSANTA39 Password .....
<input checked="" type="checkbox"/> Weather Underground in "rapid fire" mode. Frequency: every <input type="text" value="60 seconds"/>	
<input type="checkbox"/> <a href="#">WeatherBug</a>	ID <input type="text"/> Num <input type="text"/> Password <input type="text"/>
<input type="checkbox"/> <a href="#">Metar E-mail</a>	ID <input type="text"/> Frequency <input type="text" value="5 Minutes"/>
E-mail address:subject <input type="text"/>	

Selection of sensors to be used

Outdoor Temperature	<input type="text" value="th0 ()"/>	Pressure	<input type="text" value="thb0 ()"/>
Outdoor Humidity	<input type="text" value="th0 ()"/>	Wind	<input type="text" value="wind0 ()"/>
Dew Point	<input type="text" value="th0 ()"/>	Rain	<input type="text" value="rain0 ()"/>
UV Index	<input type="text"/>	Solar	<input type="text"/>
Indoor Temperature	<input type="text"/>		
Temp. #2	<input type="text"/>	Temp. #3	<input type="text"/>
Temp. #4	<input type="text"/>	Temp. #5	<input type="text"/>
Temp. #6	<input type="text"/>	Temp. #7	<input type="text"/>

Frequency of Updates

Update every

Upload data for Weather Networks via FTP

## 8.) Check for Data:

- Browse to the following web address, using your CWOP Station ID at the end:  
[http://www.findu.com/cgi-bin/wx.cgi?call=YOUR\\_CWOP\\_ID\\_HERE](http://www.findu.com/cgi-bin/wx.cgi?call=YOUR_CWOP_ID_HERE)
- For example, if your Station ID was CW0958, you would enter:  
<http://www.findu.com/cgi-bin/wx.cgi?call=CW0958>

Note: It may take up to 15 minutes for data to start appearing.

Also Note: The date/time stamp used on the above site is in the form YYYYMMDDhhmmss in UTC time. For example “20120402145210” means April 2, 2012 at 14:52 UTC (and 10 seconds).

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## 9.) Let us know you're online!

- You should receive an email from CWOP asking you to check your station location and make sure your data is flowing.

## 10.) MesoWest/MADIS Updates:

- After being added to the data feed, within a week your station's data should start showing up on web sites such as MesoWest.
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