I would really be grateful if you start to build the Weather Clock, that you go to Github and say hi.

ESP32 Weather Clock Collect User Data. V1.0   16/09/2024

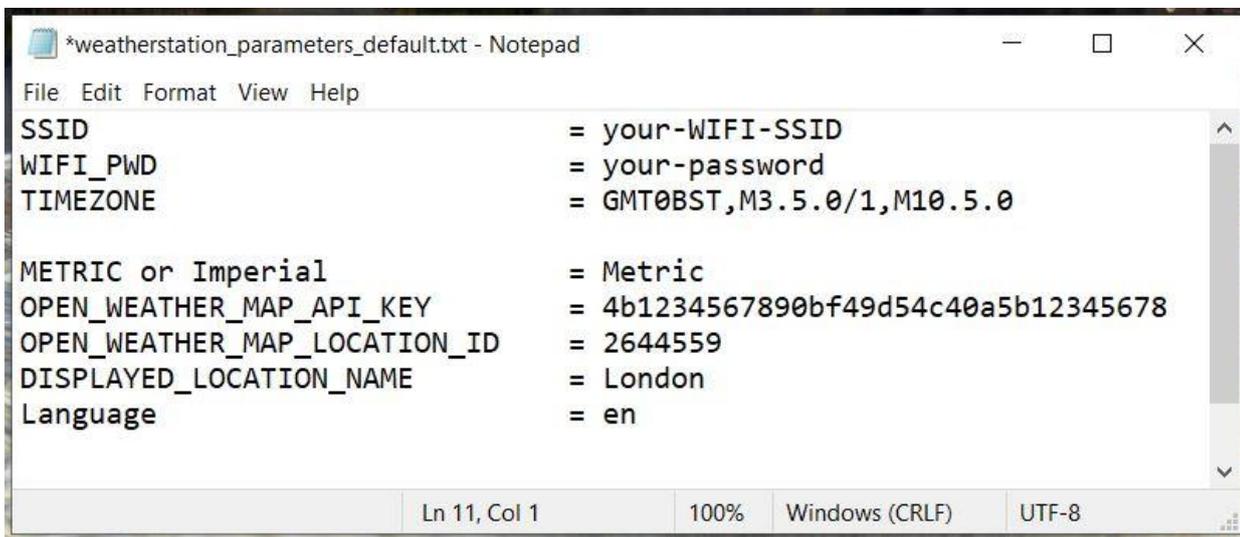The Weather Clock requires user data to be entered

Some data you should know, your WIFI SSID and password, for example.

The other data you will need to find out from the great Interweb.

The document below describes how to find this information.

Put all of the gathered information into a text file, using notepad or similar.

The result should look something like: -

WiFI Credentials

Your WIFI SSID and password are normally found on a little sticker or pull-out card on your router. These ase the same details used to connect you phone, or other WIFI equipment to your home WIFI

Timezone

This is a clever string which contains not only your time-zone, but also daylight saving, how much it changes by and the exact day and month it changes. E.g
GMT   = Greenwich Man Time (London, Lisbon etc)
M3.5.0/1   = month 3, week 5, day 0 (for clock change to summer time)

1/M10.5.0   = 1 hour time adjustment/ month 10, week 5 day 0

All too complicated? Not so, just follow this link and find the pre-formatted time-zone
https://github.com/nayarsystems/posix_tz_db/blob/master/zones.csv

Metric or Imperial

Simply type Metric or Imperial

OPEN_WEATHER_MAP_API_KEY

A free openweather.org account is required. This will then generate an API_KEY
https://openweathermap.org/price

Follow the link to signup, selecting the first column for the free account.
An API key should be emailed to you. If not, or you want to generate more API keys, log into your new account.

OPEN_WEATHER_MAP_LOCATION_ID

Find your nearest town or city by following the link and searching by name in the orange search box, then click 'Search'
https://openweathermap.org/find?q=

If successful, your city/town should appear in orange, with the latest weather.

Click on the orange-coloured town/city which will now open a new window with detailed weather.

Look at the top of the page at the URL, which will look something like

"https://openweathermap.org/city/2643743"

It is the number string at the end (2643743) which is your LOCATION_ID

DISPLAYED_LOCATION_NAME

Simply type the name of your Town/City

Language

This is the two digit country code that openweather.org recognises and will supply the download weather in this language. Find your two--digit code here.

https://openweathermap.org/current#multi

Note only the downloaded data from openweather.org will be in your chosen language

The other details Moon, Sun etc are coded into the firmware and are in English.

I have adapted the code to allow for other languages to be displayed (selected by the two-digit country code) currently the only other supported language is French.

Other languages can be added at the users request. Please contact me if you would like another language added. I will need your help to confirm the translation is correct :o)