Processing water temperature (only) in HOBOware (no air temperature)

Pendant	Water Temp Pro v2	Tidbit v2
		

Note: you do not need HOBOware Pro to process temperature data; you can use the free version, which can be downloaded online – http://www.onsetcomp.com/hoboware-free-download

8/24/2017

Steps

- Set up your **default settings** (see ‘HOBOware_DefaultSettings’ file); you should only have to do this once
- **Open the water sensor file** in HOBOware
- **Plot** the data
- **Change the Temp series name** to ‘Water Temp’
- **Export as .csv**

File naming scheme

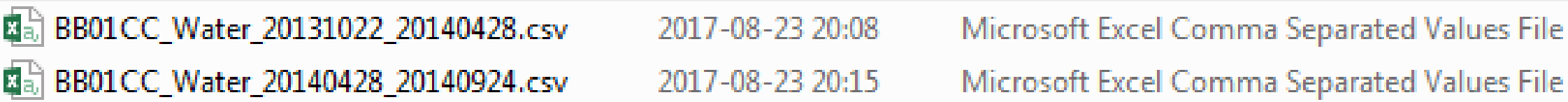
If you're going to use the ContDataQC R package, you need to use the following file naming scheme:

SiteID_SensorType_StartDate_EndDate

- Site ID (no spaces or underscores) = BB01CC
- Data Type (Water/Air/AW) (AW = Air + Water sensor data in same file)
- Date, Start (YYYYMMDD)
- Date, End (YYYYMMDD)
- Each element separated by underscore ("_").

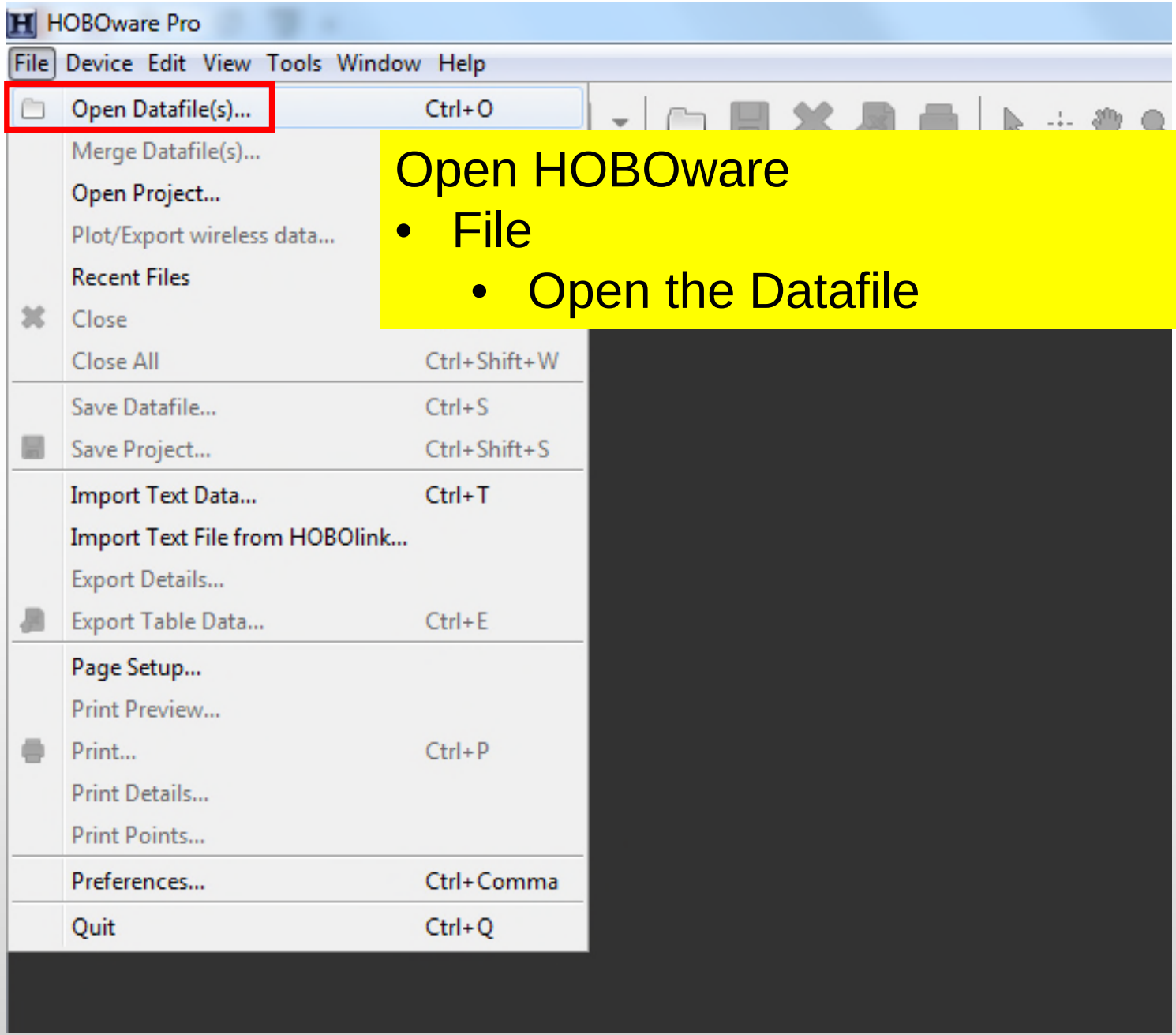
Example:

- **BB01CC_Water_20131022_20140428.csv**



Other tips

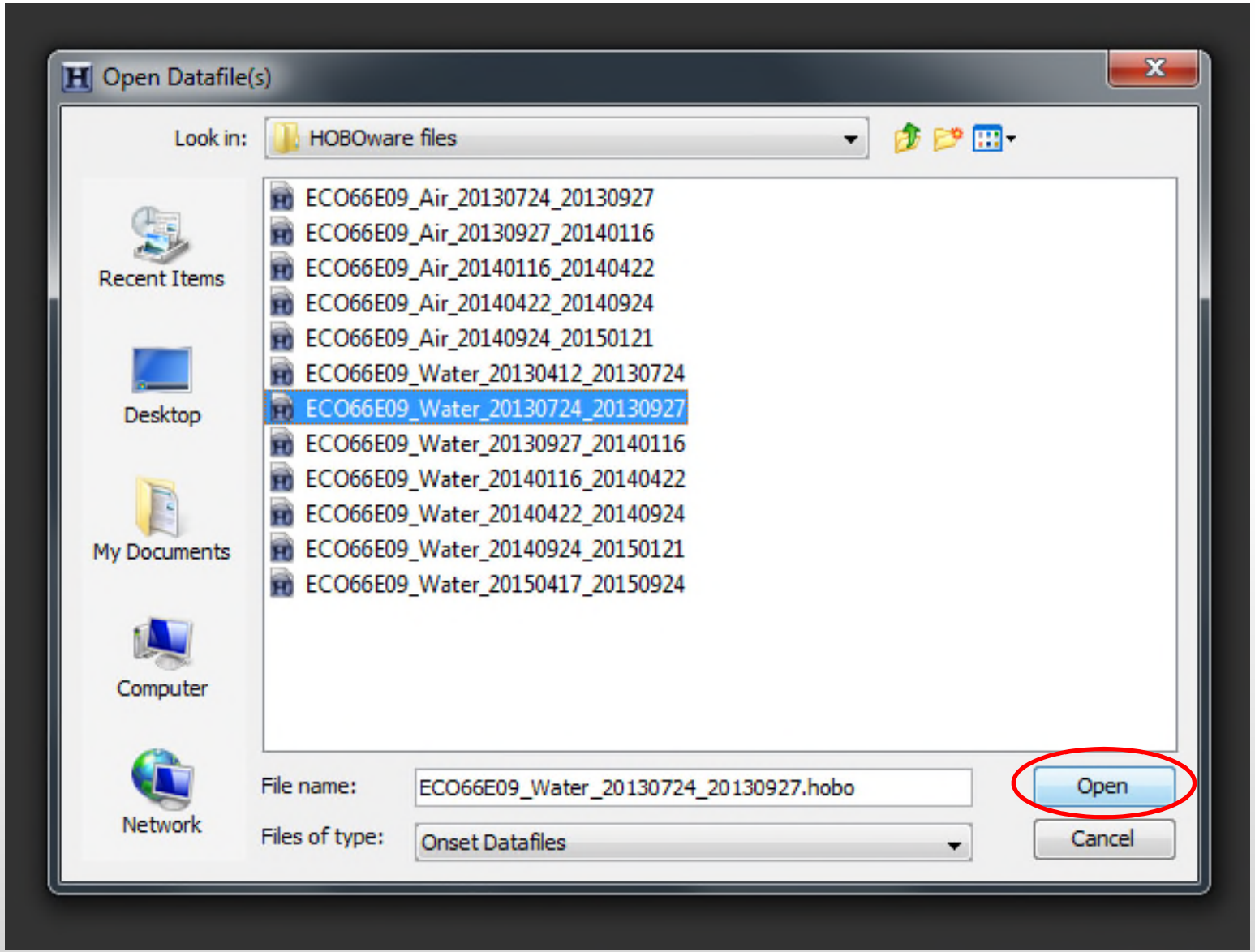
- **StationIDs** – after you come up with a name, stick with it!
- Consider setting up a **folder for each long-term monitoring site**.
- **Within each site folder**, consider setting up the folder structure described in the '**DataManagementTips**' PowerPoint.



Open HOBOware

- File
  - Open the Datafile

1. Open the HOBO Datafile



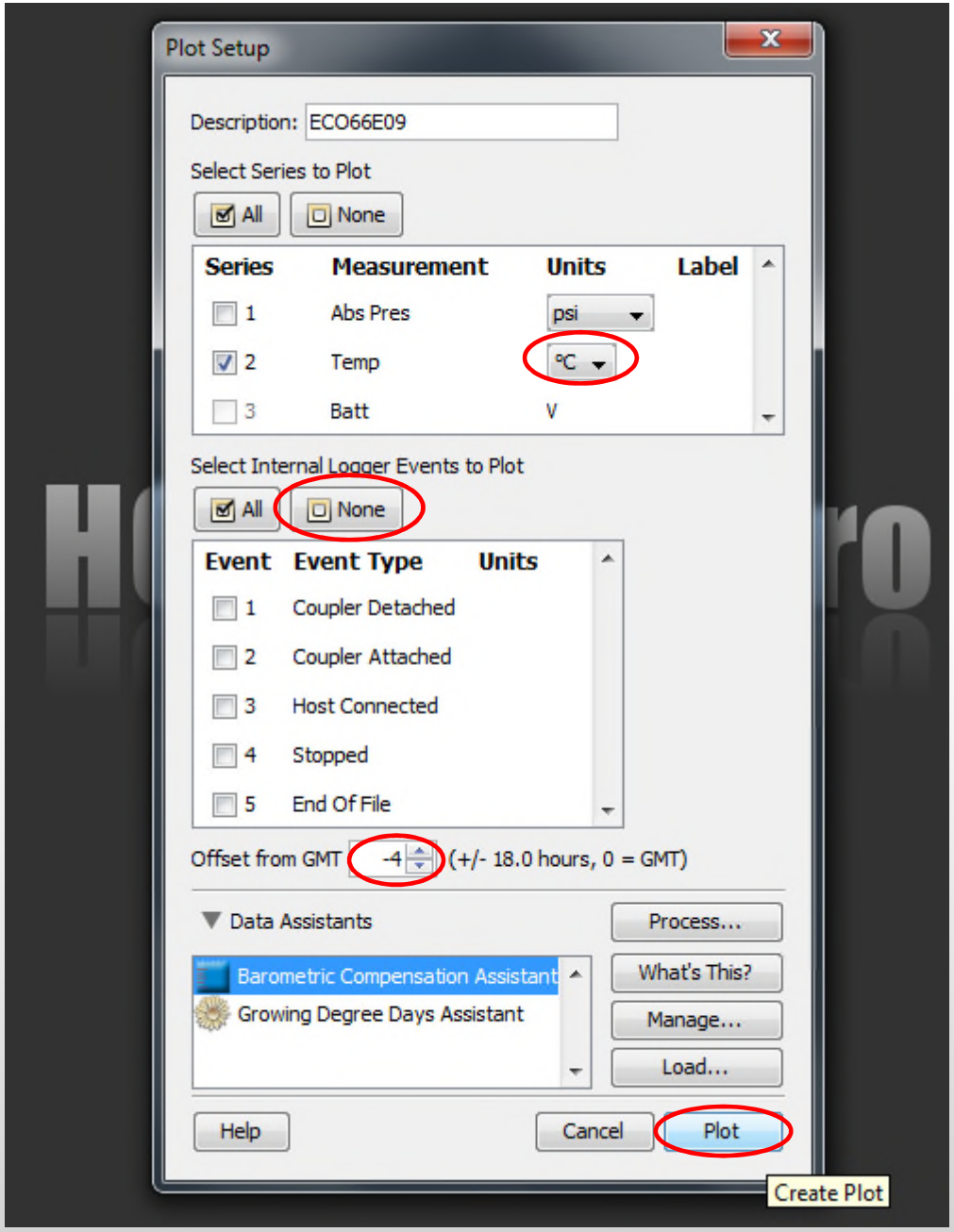
Browse/select the appropriate water sensor file

Click ‘Open’

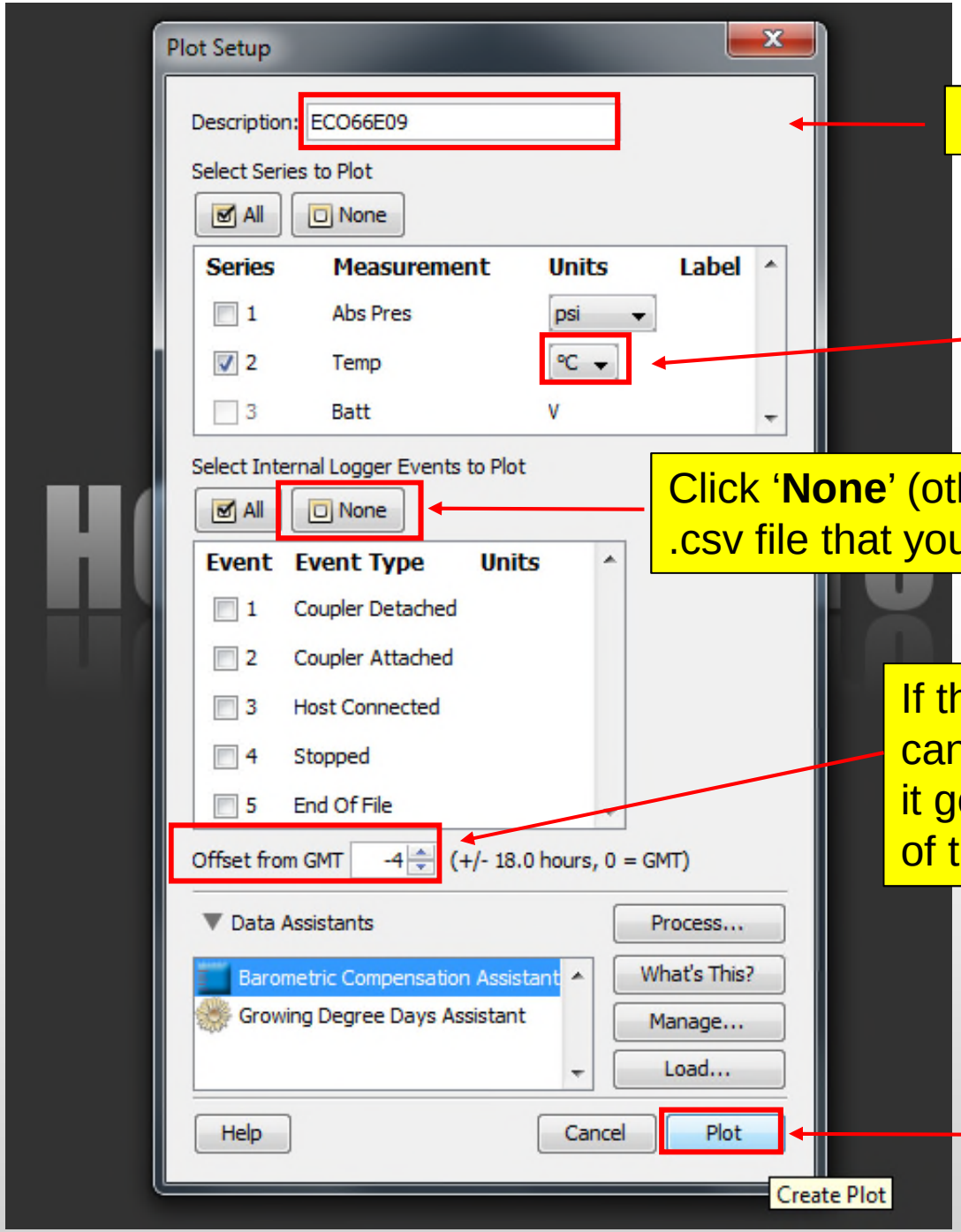
Open the water sensor file in HOBOware

Tip: if you want to use the ContDataQC R package, you can reduce the data preparation time by making the following entries –

- Description: enter **SiteID**
- Selecting **°C** for **units**
- Clicking **'None'** under Internal Logger Events to Plot
- Making sure the time offset from GMT is appropriate for the site
- Click '**Plot**'



Plot Setup



Description: **StationID** (in this example, ECOE09)

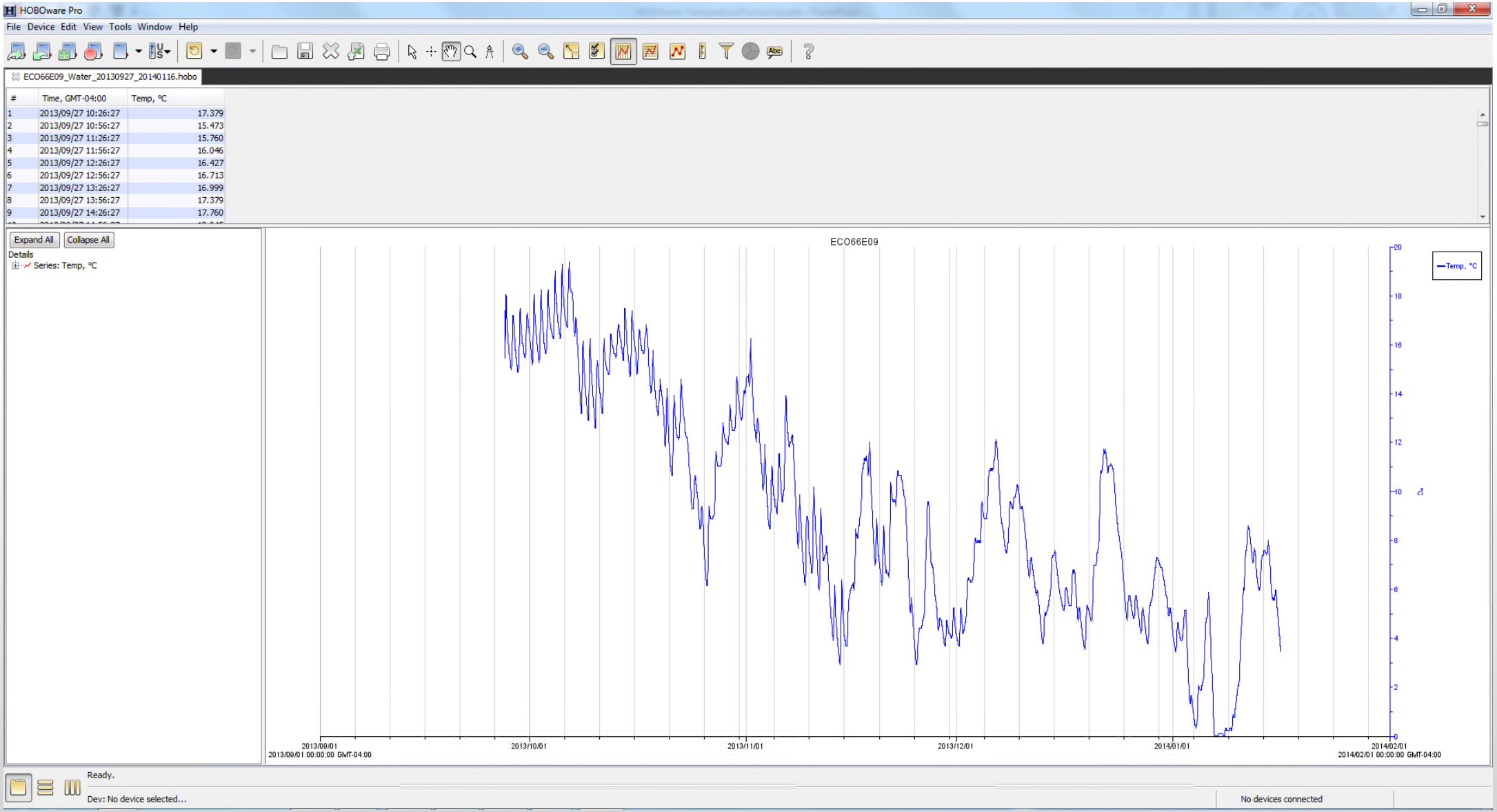
Temperature units °C

Click '**None**' (otherwise you'll get unwanted 'logged' entries in the .csv file that you'll need to delete later)

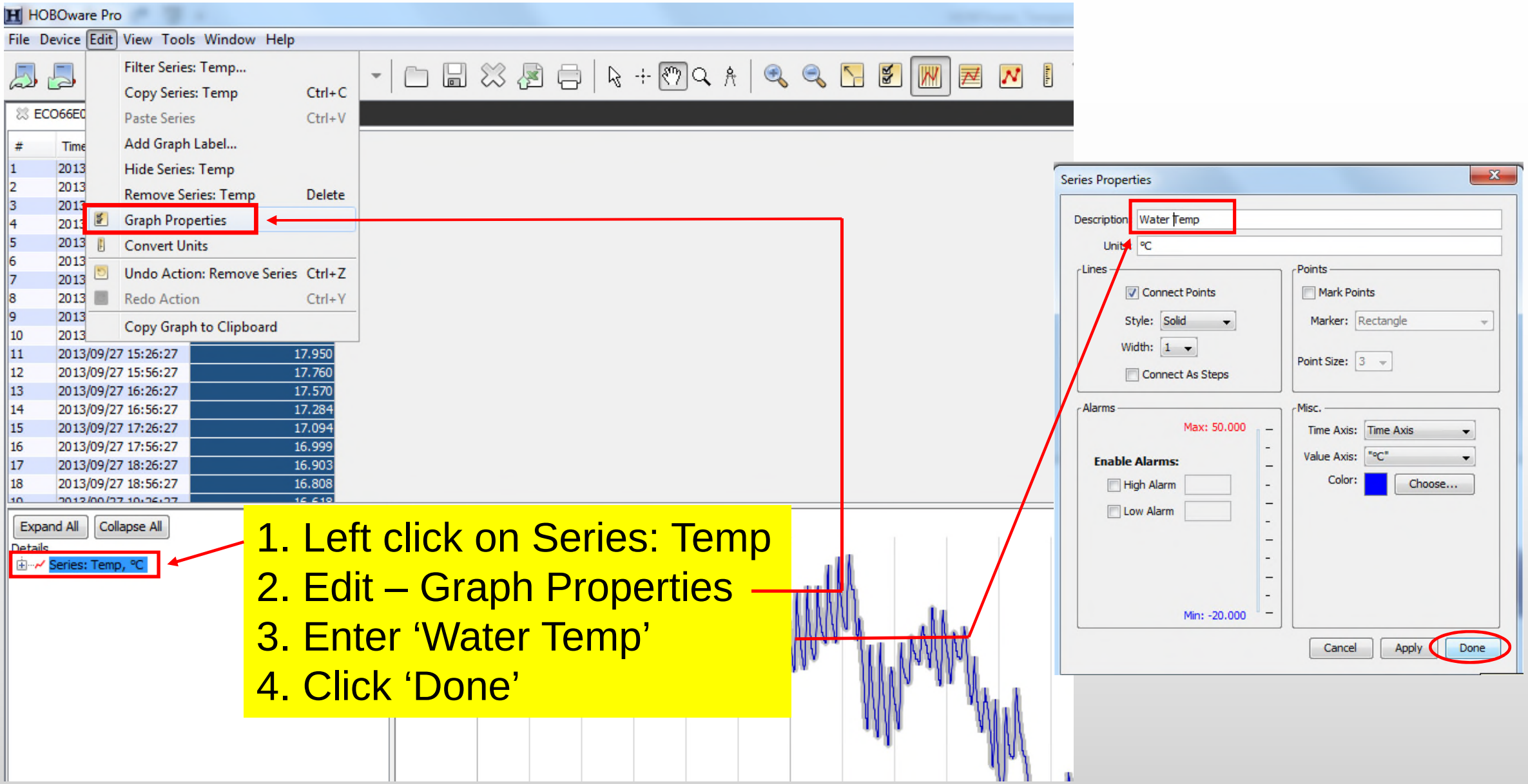
If the time zone for the site is incorrect, you can change that here (when you open the file, it goes to the default, which is the time zone of the computer that launched the sensor)

Click 'Plot'

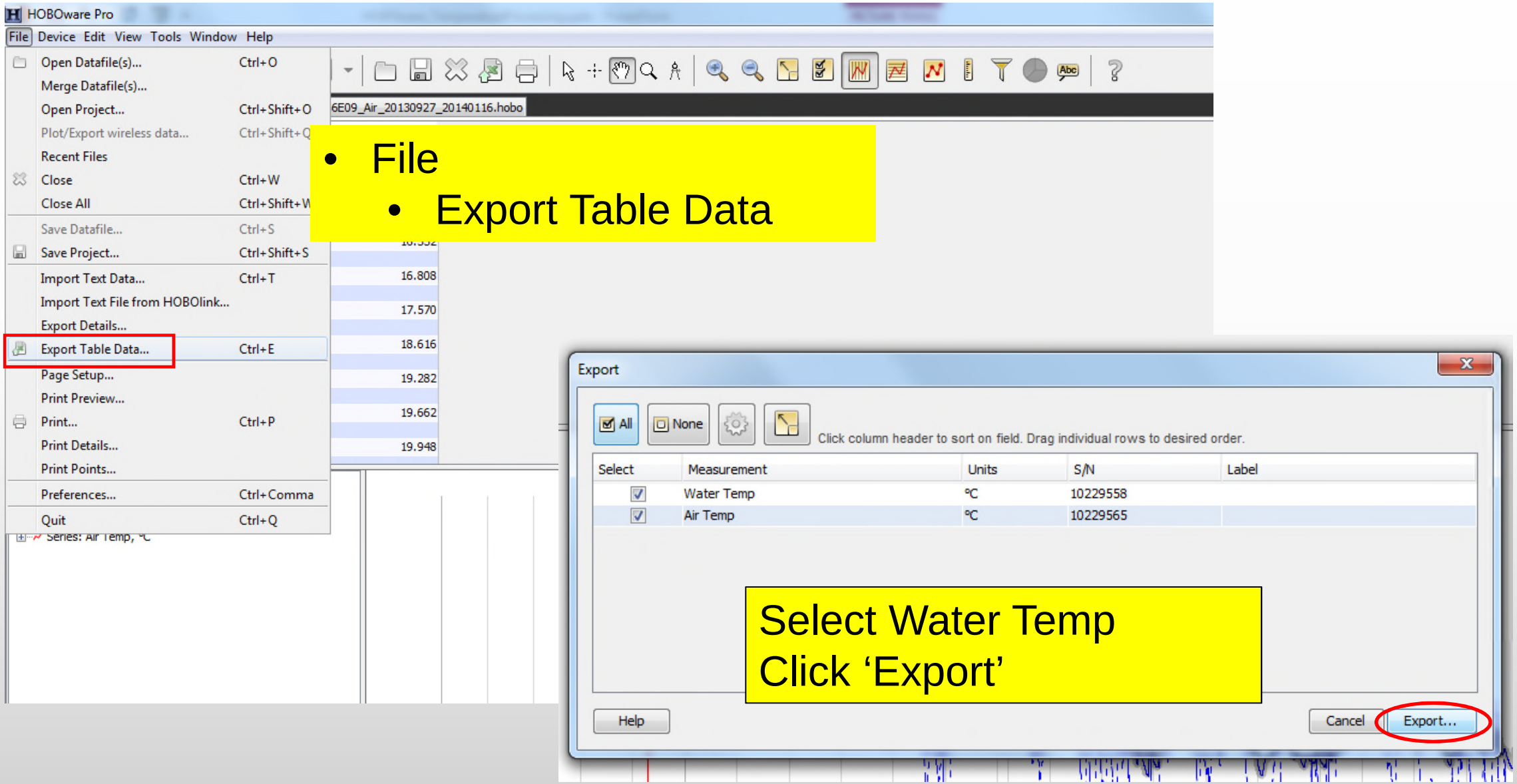
A time series plot will then appear



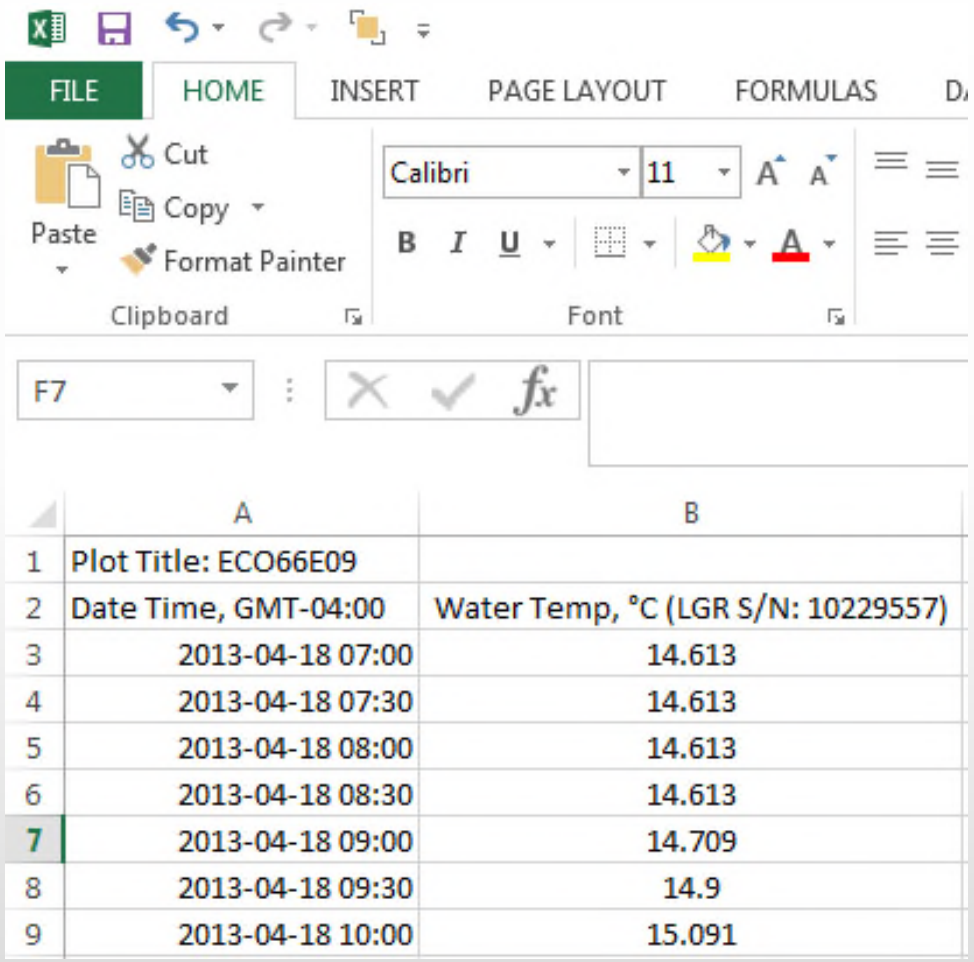
Change the Temp series name to ‘Water Temp’



Export the .csv file



Save the .csv file in the appropriate site folder.
If you followed these instructions, the file should look like this.

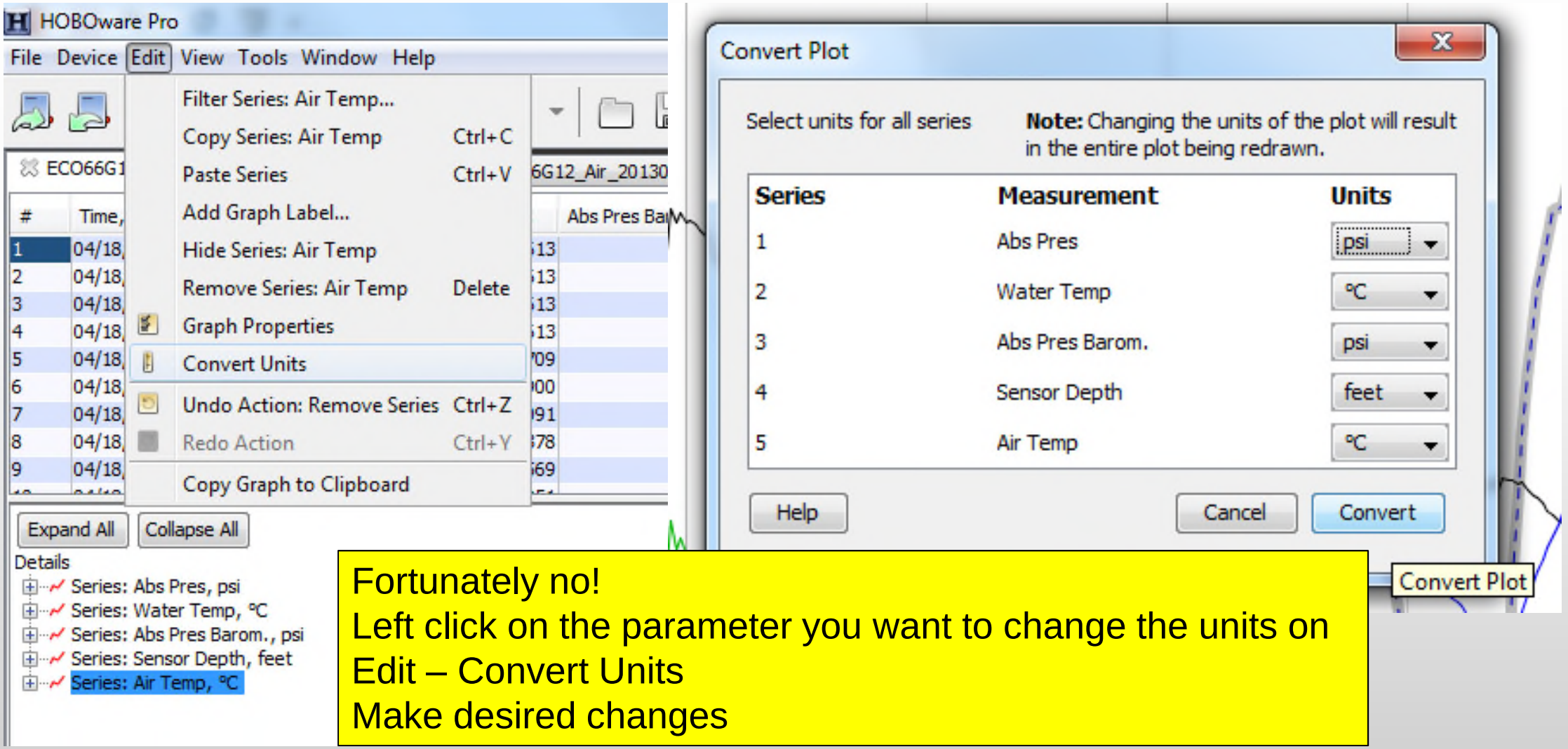


	A	B
1	Plot Title: ECO66E09	
2	Date Time, GMT-04:00	Water Temp, °C (LGR S/N: 10229557)
3	2013-04-18 07:00	14.613
4	2013-04-18 07:30	14.613
5	2013-04-18 08:00	14.613
6	2013-04-18 08:30	14.613
7	2013-04-18 09:00	14.709
8	2013-04-18 09:30	14.9
9	2013-04-18 10:00	15.091

For instructions on how to format the file for the ContDataQC R package, see the ‘Formatting_ContDataQCR’ file.

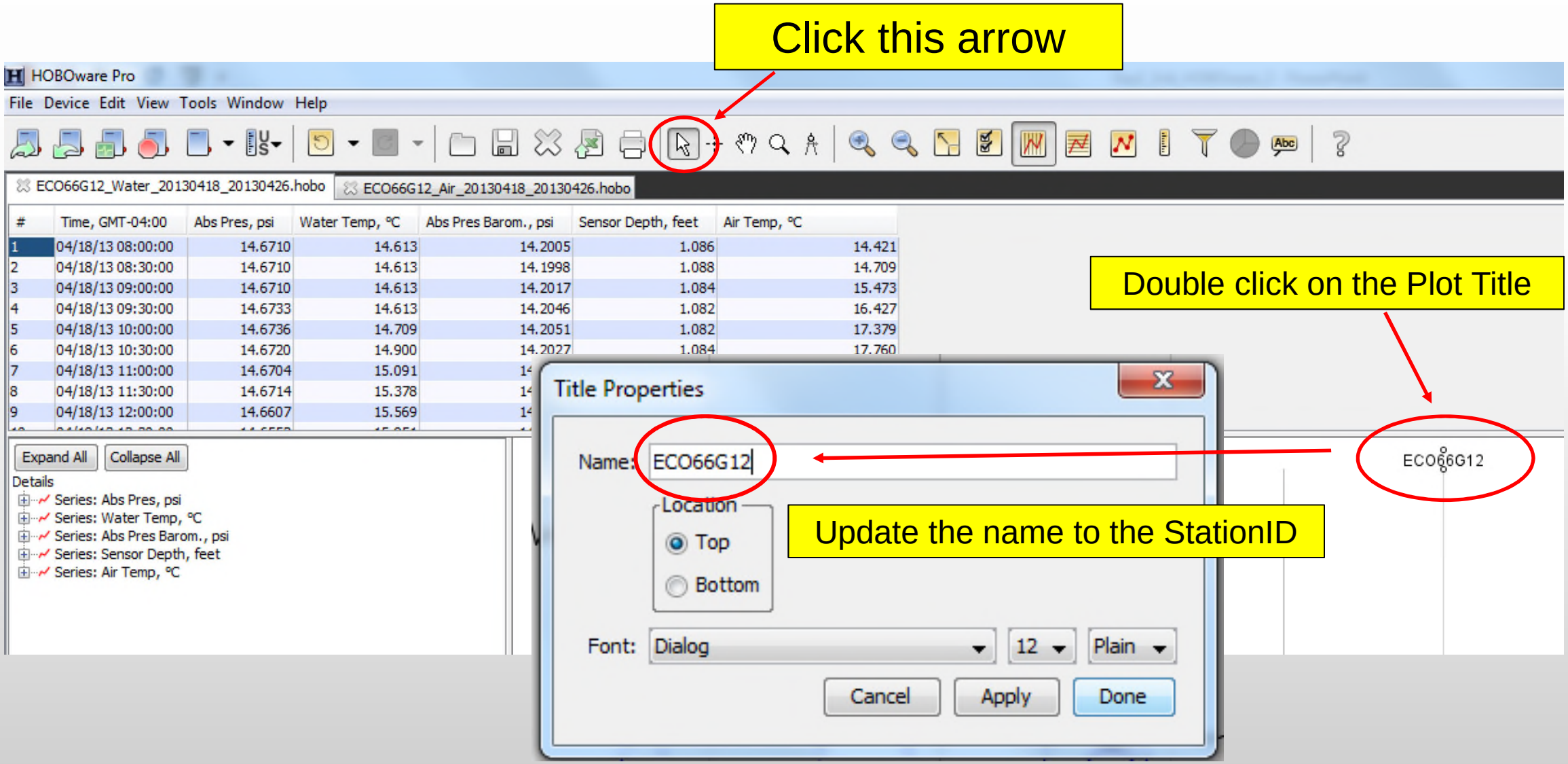
Extra tips

What if you forget to convert temperature to °C during the initial upload? Do you have to go back and do this all over again?



Fortunately no!
Left click on the parameter you want to change the units on
Edit – Convert Units
Make desired changes

What if I forgot to remove sensor type (air/water) from the Plot Title? (e.g., ‘ECO66G12_Water’ instead of ‘ECO66G12’)
You can change it by doing this…



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Questions can be directed to Britta Bierwagen (Bierwagen.Britta@epa.gov) & Jen Stamp (Jen.Stamp@tetratech.com)

Additional materials are available on the RMN Sharepoint site and the Tetra Tech FTP site.