
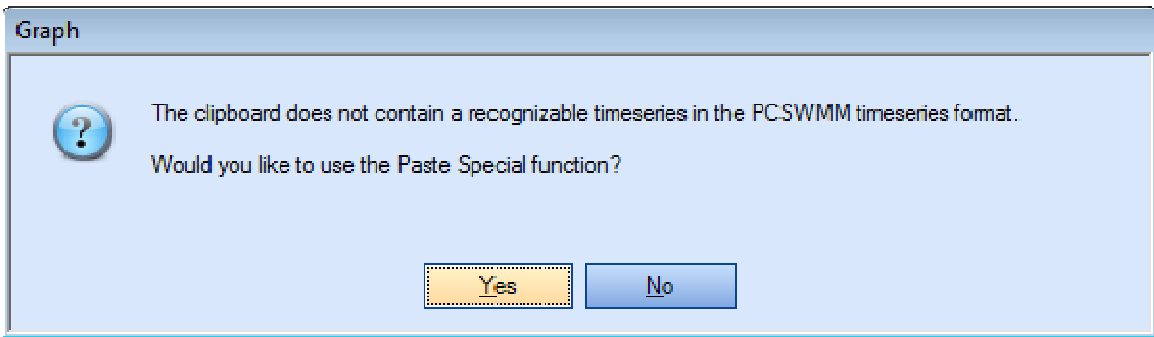


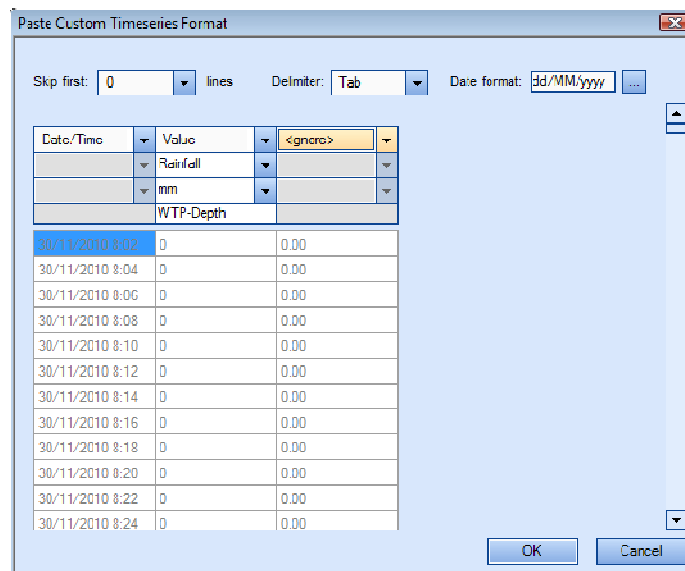
H7 - Creating a rain gage from an observed rainfall hyetograph

This how-to page reviews how to create a rain gage using an observed rainfall hyetograph. In this exercise the time series will be copied and pasted directly into the PCSWMM graph panel. The rainfall data will also be converted from units of depth to units of intensity.

1. Open your excel sheet and highlight the columns you wish to graph. You will need to include a date/time and a value.
2. Click **Ctrl+C** to copy the columns.
3. Open PCSWMM and click on the **Paste timeseries**  button. A dialog should appear asking if you wish to use the Paste Special function.
4. Click **Yes**.



5. A dialog will appear. Specify the columns, the date/time format and how many lines to skip.



6. Once you have specified the contents of each column select **Ok**.
7. You will get something that looks like the following. This is because the rainfall is currently in units of depth.

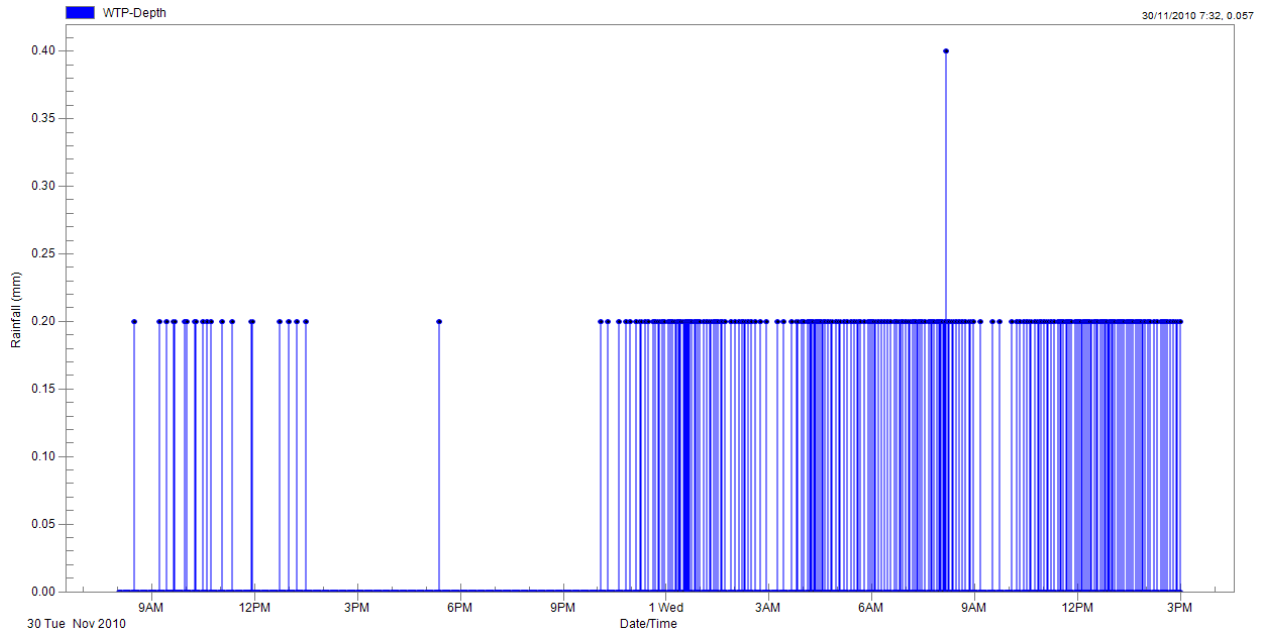


Figure 1 - Rainfall depth time series

8. Select the **Edit fns** tab from the functions tabs and select **convert**.

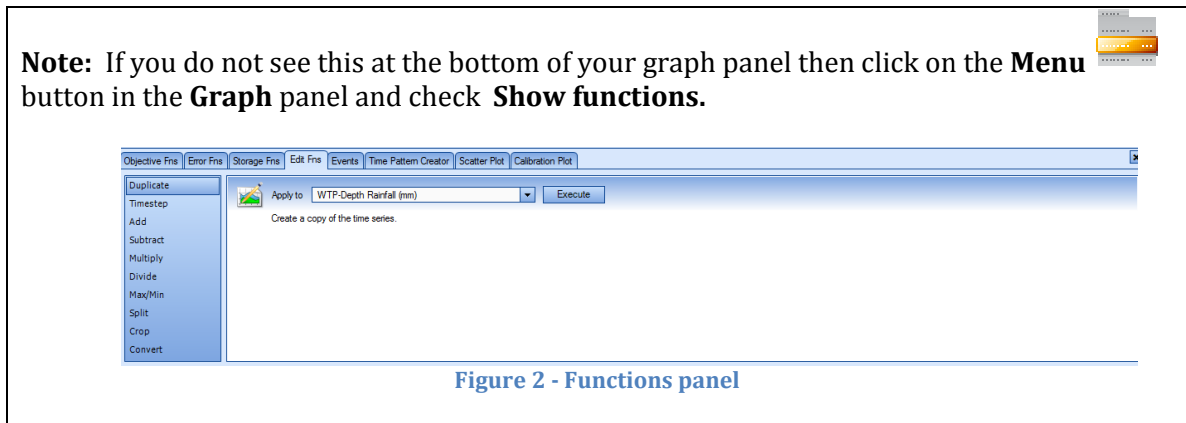


Figure 2 - Functions panel

9. In the **Apply to** drop down box ensure that it is the rainfall time series you just imported and select to **Convert rainfall depths to intensities**. You can also convert your timeseries to a different time step by selecting the timestep option.
10. Right click on the time series in the **timeseries manager** and save the time series.

Now to create to create the rain gage from the rainfall hyetograph.

11. Select **Menu** button in the Graph panel and select to **Add to Time Series Editor**

A dialog will appear asking if you want to see it, select yes and your new time series will now appear in your **time series editor**.

12. With the **Time series editor** still open click on the **Options** button and select **Create Rain Gages...**

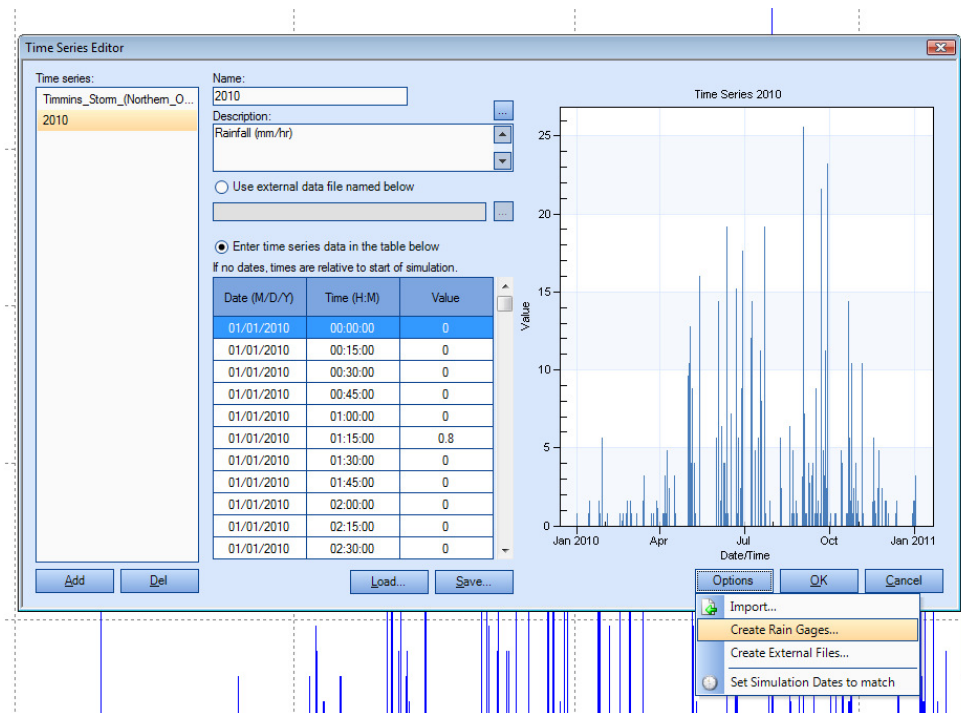


Figure 3 - Time series editor

13. A dialog will appear asking you to specify the **Rain Format**. Select **Intensity** and click **ok**.

14. The observed hydrograph is now a rain gage and can be assigned to the subcatchments through the subcatchment attributes panel.

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