

# Memo

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To whom it may concern

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2020-05-25	001	7
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#### Subject

Manual to plot result files of D-Flow FM in QGIS 3.12 (map- and history-files)

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## 1 Release Notes

Release	Description
0.00.00	- No information available.

## 2 Menu bar

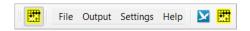


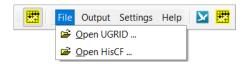
Figure 1: The menu bar of the QGIS\_UMESH plugin



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#### 2.1 File



**Figure 2:** Menu → File

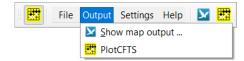
#### 2.1.1 Open UGRID

When selecting this option you are able to select netCDF files which are meet the UGRID standard. Example files are the mesh- and map-file of the D-Flow FM program (<\*\_net.nc>, <\*\_map.nc>). Only the map-file could contain time series.

#### 2.1.2 Open HisCF

When selecting this option you are able to select netCDF files which are meet the climate and forecast history file standard. Example files are the history output files of the program D-Flow FM (<\*\_his.nc>).

## 2.2 Output



**Figure 3:** Menu → Output

#### 2.2.1 Show map output

After selecting *Output*—*Show map output* the window **Map Output Animation** will open, see as example Figure 4a.

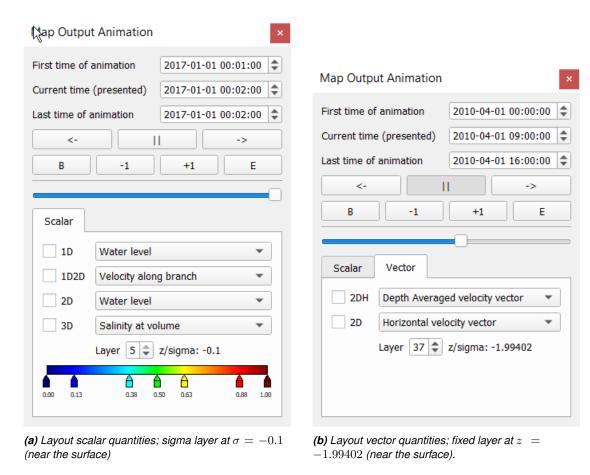


Figure 4: Map Output Animation window for scalars and vector.

## 2.2.2 PlotCFTS

After selecting  $Output \rightarrow PlotCFTS$  the program PlotCFTS will start, see as example Figure 5. Select from the menubar of the PlotCFTS program menu option  $Help \rightarrow User\ Manual$  to open the user manual for the program PlotCFTS.

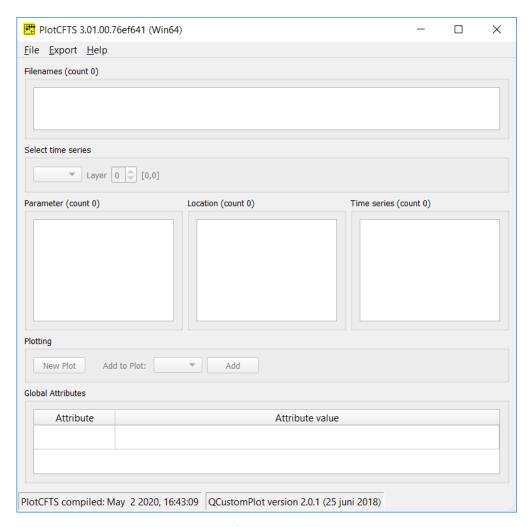


Figure 5: Main window of the PlotCFTS program.

## 2.3 Settings

Settings for the presentation of scalars and vectors.

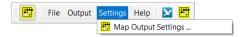


Figure 6: Menu → Settings

When selecting this option some settings for the presentation of the variables via the window **Map Output Animation** can be set. This window will also pop up when using the right mouse button within the window **Map Output Animation**.

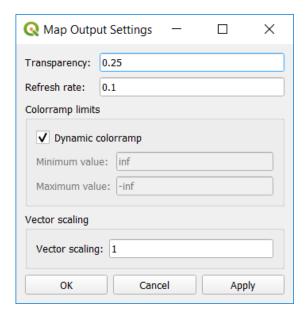


Figure 7: Window Map Output Settings

The following quantities can be specified in the window presented by Figure 7:

Transparency Specify the transparency of the iso patches for the scalars.

Refresh rate Specify the refresh rate, in seconds, of the images during animation.

#### **Colorramp limits**

Dynamic colorramp

<u>checked</u> Colorramp limits are determined by the minimum and maximum value

of the scalar. These values reach their extreme values after all

timestep are visualised.

unchecked Minimum value: specify the minimum value for the scalar.

Maximum value: specify the maximum value for the scalar.

### Vector scaling

Vector scaling The vector of length 1 (ex. 1 m s<sup>-1</sup>) is scaled with this factor. The

drawing length is based on the averaged cell size.

#### 2.4 Help



Figure 8: Menu → Help

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# 2.4.1 User Manual Shows the user manual

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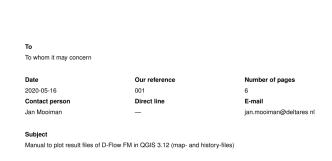


Figure 9: QGIS\_UMESH user manual

#### 2.4.2 About

Shows the about box.



Figure 10: About box

## 3 QGIS panels

Some QGIS panels are shown after reading a netCDF map-file.

## 3.1 Layer panel

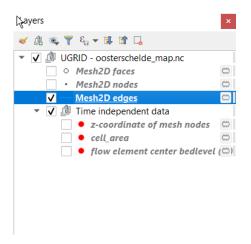


Figure 11: The QGIS layer panel after reading a netCDF map-file.

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## 3.2 Log messages panel



Figure 12: The QGIS layer panel after reading a netCDF map-file.)

## 4 Source

The source code is available on GitHUB:

https://github.com/Deltares/qgis\_umesh