2020.03 (March 2020)

Delft3D Flexible Mesh GUI

Version: 2020.03 (1.6.2.49199)

Key changes:

1. We have corrected the communication with Open Street Map. You can use again Open Street Maps as a background layer.
2. SWAN version is updated, additionally options for Non-Stationary simulations were corrected in the User Interface and in the Computational Core.
3. D-Waves: Support for Domain Specific Settings in D-Waves simulations is added.
4. All simulations are executed via DIMR, if your simulation crashes, the error from Computational Core is passed directly to the User Interface.
5. D-Real Time Control: Initial support for Mathematical Expressions is implemented (note this is currently a Beta feature)
6. Improved the implementation of the averaging methods in Spatial Operations.
7. ~~D-Waves: Totally different Spatially Varying boundaries~~ was postponed to the next 2020.04 release due to change in priorities for Mathematical Expressions.

Known problems:

- When grid has a very high resolution it may look distorted. This problem is related to a specific rendering we are using. We have currently improved that for our grids but still need to extend it to other components (points, polygons) before making it a default for our users
- We do not fully support 4k screens. We have improved some screens but it is not yet fully supported (e.g. Boundary Conditions Screens, Charts are still in the old Windows Forms format)
- D3DFMIQ-1794: You will get a Cricial Error when trying to copy Control Groups elements, in case they contain linked Mathematical Expression

Compatibility:

Solved issues:

key	summary	type	created	updated	reporter	priority	status	resolution	developer	tester	reviewer

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DIMR

Version: 2.00.00.65980, Feb 13 2020, DIMRset: 2.10.10_65673, Feb 14 2020

Key changes: None

Known problems: None

Compatibility: None

Solved issues:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

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D-Flow 1D, D-Flow 1D2D

Version:

- D-Flow 1D Version: 5.00.024.65651, Feb 13 2020
- FLOW1D2D Version: 1.00.00.65651, Feb 13 2020

Key changes:

- Dispersion of Salinity and temperature set to 0 at pumping stations
- Bug fixes for temperature/salinity transport in combination with laterals and boundaries
- More robust handling of lateral retractions
- Default heat capacity of water set to 4200 J/(kg.K)

Known problems:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

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Compatibility:

Solved issues:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

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D-Flow Flexible Mesh

Version: 1.2.94.65980, Feb 13 2020

Key changes:

1. Initialization time of a D-Flow FM model is significantly decreased by so-called "caching"
2. Improved robustness for 2D depth-averaged models with vegetation roughness based on trachytopes
3. Improved robustness for 3D models (either with sigma- or z-layers)
4. Improved restart for both 2D and 3D models
5. Improved Fourier output, in particular for 3D models

Known problems:

- UNST-3263 D-Flow FM model does not run when sample set is located on top of faces
  ⚠ When having a samples that are just above cell centers interpolation is not working ok. This causes problems in User Interface but also makes it impossible to run triangular grid in computational core.

Compatibility:

Solved issues:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

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Solved issues:

D-Morphology

Version: same as D-Flow FM

Key changes: None

Known problems:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

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Compatibility: None

Solved issues:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

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D-Real Time Control

Version: 1.6.1.1183, Jan 24 2020

Key changes:

Known problems:

Compatibility:

Solved issues:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

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D-Rainfall Runoff

Version: 3.216.37.65651, Feb 13 2020

Key changes:

- Added Urban option dry weather flow for companies
- Added network file INI format desired for D-HYDRO GUI while still supporting old SOBEK format
- Improved NetCdf file writing performance

Known problems: None

Compatibility: None

Solved issues:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

D-Water Quality

Version: 5.10.00.65980, Feb 13 2020

Key changes:

- Further integration of the water quality library into D-Flow FM.
- Corrections in coupling algorithm in D-Flow FM, several problems regarding the volume balance corrected.
- Convergence problems with integration option 24 solved by avoiding zero volumes.
- Correction in the calculation of the local depth in case of z-layers.
- Improvements in the netCDF output from D-Water Quality.

Known problems:

Common theme:

Align netCDF output from D-Water Quality with the output from D-Flow with water quality processes

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

Compatibility:

Solved issues:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

D-Waves

Version: 3.08.00.65980, Feb 13 2020

Key changes:

1. SWAN 41.20A.7
   Results will differ due to the switch from version 40.72ABCDE to 41.20A.7. If needed, a reverse to the old version is possible.

Known problems: None

Compatibility: None

Solved issues:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

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DIDO

Version:

Key changes:

Known problems:

Compatibility:

Solved issues:

RGFGRID

Version:

Key changes:

Known problems:

Compatibility:

Solved issues:

QUICKPLOT

Version:

Key changes:

Known problems:

Compatibility:

Solved issues: