

Release Notes Delft3D 4.00.00 (June 2011)

Influence on results

FLOW

Evaporation heat flux: Please read appendix B.6 of the Delft3D/FLOW manual carefully.(Delft3D-14383)

WAQ

PLCT, use the "Save As" button to save your data (Delft3D-14067)

Solved Bugs

FLOW/MOR

- DELFT3D-15087 Fluid mud entrainment formula updated in documentation: vector-components changed to vector norm
- DELFT3D-14816 FMTSTA keyword still needed in MDF-file
- DELFT3D-14810 Salinity effect on flocculation term in Van Rijn 2004 incorrect
- DELFT3D-14797 Running parallel produces NaNs in the second written timestep
- DELFT3D-14788 No bedlevel transport across a Domain Decomposition boundary from fine to coarse
- DELFT3D-14749 Update the FLOW tutorials
- DELFT3D-14599 Heat flux model formula incorrect in documentation should be $(23.38 \exp(18.1 - \frac{53303.3}{\bar{T}_s}))$

- DELFT3D-14470 Size limitation on number of open boundaries (smaller then 999)
- DELFT3D-14392 Use interpolation to calculate the discharge every timepoint, instead of calculating a "delta-discharge"
- DELFT3D-14383 Big temperature difference using two different versions
- DELFT3D-14343 Delft3D-FLOW does not produce a communication file anymore with direct online WAQ coupling
- DELFT3D-14257 Large tracer concentration when combining Domain Decomposition with an initial eddy viscosity file
- DELFT3D-14216 GUI shows walking discharge as normal discharge
- DELFT3D-13951 GUI When an input file is not found, FLOW should stop with a clear error message.
- DELFT3D-13392 GUI Visualization Area shouldn't blank out values below -999
- DELFT3D-13385 GUI Modification of Iter keyword in mdf file disappears when editing mdf file in FLOW-GUI

WAVE

- DELFT3D-14768 WAVE offline does not work
- DELFT3D-14758 Output curve is not found, wrong keyword
- DELFT3D-14586 Delft3D-WAVE lets SWAN use the wrong hotstart files
- DELFT3D-14265 WAVE tutorial may not have directories named "input" and "output"

WAQ

- DELFT3D-14822 GUI Waste loads defined by mass are not distributed correctly over the vertical
- DELFT3D-14799 Strange difference between results for input that should be exactly the same - arising in the context of MAMPEC

- DELFT3D-14386 Description of the process HDisperVel is missing from the technical reference manual
- DELFT3D-14322 Division by zero in dlwqtb

DELFT3D-14268 Documentation of WAQ processes does not describe switch SwTauVeloc in the caltau process
DELFT3D-13270 Coupling problems with TELEMAC V5P9
PART
DELFT3D-15089 Memory bug generates NaN code for a continuous release at stop time for oil budget and balances
DELFT3D-14847 Tutorial model for oil did not run
DELFT3D-14065 Tables in PART-GUI behave strangely: focus is set to start of number
DELFT3D-14063 GUI crashes when cancelling the Save operation
DELFT3D-13989 GUI crashes after Insert row/Generate table

DIDO

DELFT3D-15050 Reading grid enclosure leads to crash
QUICKIN
DELFT3D-14885 Saving actual grid is not working properly, it was written to two files
DELFT3D-14778 Description of sample file is needed

RGFGRID

DELFT3D-14990 Removing spline and exporting corrupts file

QUICKPLOT

DELFT3D-14874 Cannot convert lines in shape file to splines
DELFT3D-14833 Orientation of velocity vectors incorrect for curvilinear models on sphere (Simona SDS-file).
DELFT3D-14786 Selecting another figure doesn't change the active plot axes
DELFT3D-13830 Cells are not displayed in visualisation area, mismatch with DIDO

MENU

DELFT3D-14891 Detection of executable with two times the extension *.exe (i.e.exe.exe)
DELFT3D-10682 When closing 'running box' of WAVE, the process SWAN is not killed

Improvement

FLOW/MOR

DELFT3D-15038 Prevent extremely long tri-diag files
DELFT3D-14879 Write message to screen when FLOW waits on connection with Remote Online Visualisation
DELFT3D-14824 Improve error message with respect to skipped records in MDF-file and missing enclosure file
DELFT3D-14820 The error message "Background horizontal Eddy Viscosity too large in too many points" must be improved
DELFT3D-14806 Queries regarding the use of vegetation trachytopes
DELFT3D-14588 Adding a pressure correction on Riemann boundaries should be possible
DELFT3D-14433 Describe in the documentation what users are supposed to do when the message "No convergence in UZD" appears very often

DELFT3D-14363 GUI Support the improved wind drag force calculation
DELFT3D-13479 Check on NaN values in restart files
DELFT3D-13301 Stop with an error message when performing a wave calculation every flow time step
DELFT3D-10672 Improve description of boundary layer development at water level boundaries parallel to coast
DELFT3D-10584 Write units of the variable ATR (Advection TRansport) and DTR (Diffusive TRansport) on the trih-file

WAVE

DELFT3D-14815 In documentation: how to work offline with WAVE

DELFT3D-14075 Adjusted the file extension for obstacle files

DELFT3D-14007 Three different time formats used, synchronise it.

DIDO

DELFT3D-14871 After asking "Save the project first" and the answer "yes", DIDO should save the project

DELFT3D-14404 Read the mdf-file and the attribute files

*** New Feature**

FLOW/MOR

DELFT3D-13428 Mass balance output for Delft3D-FLOW

DIDO

DELFT3D-14781 Need to cut out a small part of the hydrodynamic grid

MENU

DELFT3D-14483 Show run-ID in title of "run program window"