

## Release Notes - SOBEK - May 2009: 2.12.001

### \*\* Solved bugs

- \* [SOBEK-15831] - Strange behaviour of River Weir and Advanced Weir as a compound member.
- \* [SOBEK-17234] - Rainfall volume error on 2D grid.
- \* [SOBEK-17933] - Update all predefined subsets and proces coefficient files.
- \* [SOBEK-18091] - Restart-files not saved.
- \* [SOBEK-18412] - When FLOW crashes, RR and RTC should be informed.
- \* [SOBEK-18471] - Change flag must be set when MODELEDT changes profile data.
- \* [SOBEK-18498] - Change IDs (in NETTER): lateral discharge not converted right.
- \* [SOBEK-18734] - VALSOBEK.NVS incorrect: Flow-Channel with Lateral Discharge should be considered as 'branch'.
- \* [SOBEK-18780] - Uninstall Lm (client) and Re install Lm (standalone) environment: variable to server should be deleted.
- \* [SOBEK-18916] - SBKCHECK should not remove 2D-boundary data.
- \* [SOBEK-18948] - Incorrect numbers of Flow - node types in Online Help.
- \* [SOBEK-19010] - 2D grids not properly aligned.
- \* [SOBEK-19022] - Hydraulic flow over 2D Verheij vdKnaap not correct for low flow stages.
- \* [SOBEK-19023] - Hydraulic flow over 1D Verheij vdKnaap in 1D schematization not correct.
- \* [SOBEK-19064] - Nested grids not aligned properly.
- \* [SOBEK-19082] - Files FLS\_H.INC en FLS\_C.INC: \*\*\* instead of number with four positions, format error.
- \* [SOBEK-19123] - Crash SOBEKSIM without error message in SOBEK.LOG.
- \* [SOBEK-19155] - Run time error 52 at importing SUF-HYD.
- \* [SOBEK-19171] - Strange discharge jump in 2D breach growth node.
- \* [SOBEK-19203] - RTC handles missing values wrong.
- \* [SOBEK-19204] - UPDATE corrupts RTC data-files.
- \* [SOBEK-19206] - NonegativeQLat if no water available is incorrect.
- \* [SOBEK-19230] - Problem with showing Chinese character in SIDEVIEW, while in NETTER it shows ok.
- \* [SOBEK-19239] - Local initial water levels cannot be entered as negative value.
- \* [SOBEK-19245] - SBKCHECK should not delete 2D Initial Values.
- \* [SOBEK-19246] - Incorrect message about 2D initial water levels.
- \* [SOBEK-19247] - SOBEK setup checks for internet explorer.
- \* [SOBEK-19253] - When RR output ends exactly at end of day, wrong date id written.
- \* [SOBEK-19273] - SIMULATE does not create a Simloc.inp file, and Sobeksim therefore crashes, but does not give a crashed signal to other modules.
- \* [SOBEK-19279] - SIMULATE does not create a Simloc.inp file, and SOBEKSIM therefore crashes, but does not give a crashed signal to other modules.
- \* [SOBEK-19285] - UPDATE changes DecisPar.Rtc file incorrectly.
- \* [SOBEK-19289] - Crash in 2.11.002, model calculates in 2.10 version.
- \* [SOBEK-19302] - Crash steady calculation 2D Conservative Advection scheme.
- \* [SOBEK-19315] - Merge models should not change friction data.
- \* [SOBEK-19320] - Error in sub Rdsbkh-DIO Error Sobek\_results Sobek-id in HIS file does not match with 3B-id.
- \* [SOBEK-19336] - Storage computation fails.
- \* [SOBEK-19354] - Weir, Universal weir, 1D dambreak discharge coefficient  $\leq 1$  is incorrect.
- \* [SOBEK-19355] - Update sometimes gives File Open Error.
- \* [SOBEK-19379] - RR open water without downstream link should be possible.
- \* [SOBEK-19412] - Error message when using SOBEK Advanced Batchtool.
- \* [SOBEK-19414] - Model crashes on Parser, Network.GR with GR\_1.0 not handled properly.
- \* [SOBEK-19421] - Export to SUFHYD fails.
- \* [SOBEK-19441] - SOBEKSIM crash.
- \* [SOBEK-19444] - Crash of different cases.
- \* [SOBEK-19449] - Steady model works, unsteady using same input NOT ok.

- \* [SOBEK-19468] - Headers missing in Calibration Data Editor.
- \* [SOBEK-19470] - Rainfall on 2D Grid doesnot work.
- \* [SOBEK-19471] - It seems to be impossible to get model stabilized.
- \* [SOBEK-19490] - Velocity setback 1DFLOW / Overland Flow incorrect.
- \* [SOBEK-19498] - HEC-RAS Network Import incorrect.
- \* [SOBEK-19502] - Rainfall on nested grids not working.
- \* [SOBEK-19519] - RR-1DFLOW-Overland Flow (2D) simultaneously should be possible.
- \* [SOBEK-19569] - Problem SOBEK conversion and Intwis-SOBEK-stekker.
- \* [SOBEK-19598] - Run-time error code "53" when converting to SUF-HYD.
- \* [SOBEK-19610] - Description of Runoff delay not mentioned in Online Help.
- \* [SOBEK-19613] - Handling of data from BOUND3B.3B not always correct in case of on line coupling RR-1DFLOW.
- \* [SOBEK-19625] - HEC-RAS import network problem.
- \* [SOBEK-19653] - Unexpected dynamic differences in 1D Break Dam discharge.
- \* [SOBEK-19671] - Model error: Run time error 91.
- \* [SOBEK-19676] - Error Message: Probably more than 1 branch ... not clear.
- \* [SOBEK-19692] - Incorrect Flow velocities at 1D Flow Dam Break.
- \* [SOBEK-19699] - Error: GetTable: local array space too small.
- \* [SOBEK-19711] - RR routing, Sacramento, GWL output in m below surface incorrect.
- \* [SOBEK-19726] - Error #438, Object doesnot support this property or method.
- \* [SOBEK-19755] - Import of SOBEK-RE model not correct.
- \* [SOBEK-19756] - 1D Flow-Dam breaks should start at same time.
- \* [SOBEK-19760] - Problem running model.
- \* [SOBEK-19762] - Interpolation of wind direction is incorrect in case of quadrant 3/4 transition.
- \* [SOBEK-19776] - Erroneous flow velocities at universal weir.
- \* [SOBEK-19804] - Error importing SUF-OW.
- \* [SOBEK-19808] - CAT not showing all data.
- \* [SOBEK-19816] - Error when reading PI XML files.
- \* [SOBEK-19818] - Error in writing friction.dat.
- \* [SOBEK-19820] - SIDEVIEW does not respond in schematisation mode.
- \* [SOBEK-19821] - Multidata editor causes problems in case of editing friction of culverts.
- \* [SOBEK-19837] - Validation network gives strange message about RR-SF link.
- \* [SOBEK-19859] - Simulation stops without error message.
- \* [SOBEK-19872] - Import Mike11 incorrect: 'datum' in .txt file should be used.
- \* [SOBEK-19881] - Wind indication arrow not depicted in Meteo for large wind velocity of 40 m/s.
- \* [SOBEK-19885] - Error 9: subscript out of range due to Heul profile.
- \* [SOBEK-19903] - Friction for YZ profiles not written properly.
- \* [SOBEK-19904] - Multiple data editor bug: Flow - Internal Weir.
- \* [SOBEK-19911] - Error linking Urban model (RR-1DFLOW) with Rural model (RR-1DFLOW).
- \* [SOBEK-19916] - Mike11 import: Profiles at some reaches are incorrect: located at same position.
- \* [SOBEK-19918] - Mike11 import: error in friction values of YZ profile.
- \* [SOBEK-19920] - Mike11 import does not write correct friction of yz profile in case of a constant friction.
- \* [SOBEK-19921] - Friction for YZ profiles with a constant friction is not written properly.
- \* [SOBEK-19923] - Strange waterlevels in closed manholes, due to culvert.
- \* [SOBEK-19941] - Do not add default bounary condition for BC found in Boundaries.xml.
- \* [SOBEK-19947] - Install should not try to update HTML and DAO-files.
- \* [SOBEK-19950] - Import Meteo Wind does not work.
- \* [SOBEK-19952] - Editing User defined evaporation data does not work.
- \* [SOBEK-19957] - RR Runoff node check on consistency input time series.
- \* [SOBEK-19958] - RR Runoff node: SOBEK\_3B.FNM file not correctly prepared with RNF and TMP file.
- \* [SOBEK-19982] - SUFHYD Import of 'Heul' profiles not correct.
- \* [SOBEK-19983] - Error opening new case in new project.

- \* [SOBEK-19986] - RR crash.
- \* [SOBEK-19989] - Fatal error during import Mike11 model.
- \* [SOBEK-19993] - Correction of controller handling and logging messages.
- \* [SOBEK-20000] - ModelPaste prefix bugs in laterals, structures, controllers, triggers.
- \* [SOBEK-20001] - ModelPaste: Paste model gives problems on Trigger.Def.
- \* [SOBEK-20018] - Inverted Siphon crashes in case only negative flow is allowed.
- \* [SOBEK-20019] - Inverted Siphon crashes in case only positive flow is allowed.
- \* [SOBEK-20037] - Warning from SufNtw program - SufHyd import - not correct.
- \* [SOBEK-20040] - Reaches\_laterals.txt saved at wrong location.
- \* [SOBEK-20043] - Multiple Data Editor gives runtime error.
- \* [SOBEK-20045] - PARSEN has trouble with long BUI file.
- \* [SOBEK-20068] - SufHyd.Log file should not contain Dutch text items.
- \* [SOBEK-20078] - Conv\_sbk fails to import Mike11 project; the path for the structures is not found.
- \* [SOBEK-20079] - Conv\_sbk fails with Mike11 files when attribute data spans multiple lines.
- \* [SOBEK-20081] - Endless loop when diagnostic files cannot be written.
- \* [SOBEK-20112] - Subscript out range error when importing combined HydroWorks model (SUF\_NTW).
- \* [SOBEK-20126] - Grid data not read when file contains Tabs i.s.o. Spaces.
- \* [SOBEK-20135] - Problem with series simulation.
- \* [SOBEK-20136] - Fatal error: Universal weirs - wetted area 0m2.
- \* [SOBEK-20137] - RTC does not write output in summary output files for series of events from levent=2,3,..
- \* [SOBEK-20138] - RTC - option of external data only works using 1 external HIS file, not for 2 or more.
- \* [SOBEK-20148] - Mike11 import incorrect: culverts.
- \* [SOBEK-20149] - Mike11 import incorrect: boundary nodes, format version 107.
- \* [SOBEK-20162] - UPDATE gives error while file is present.
- \* [SOBEK-20168] - PARSEN - crash without message about missing profile.
- \* [SOBEK-20172] - 1DFLOW Restart File not saved.
- \* [SOBEK-20179] - In SETTINGS Rural, Urban and River 1DFLOW: it should be possible together.
- \* [SOBEK-20184] - Rainfall on 2D grid does not work.
- \* [SOBEK-20189] - Wrong manhole bottom level when importing from HydroWorks.
- \* [SOBEK-20239] - PARSEN crash.
- \* [SOBEK-20248] - 'No Certification' message when installing License Manager.
- \* [SOBEK-20251] - License does not work when using Remote Desktop.
- \* [SOBEK-20270] - In SOBEK 2.12.000.06 RTC doesn't work.
- \* [SOBEK-20275] - 64-bit License manager installation driver error.
- \* [SOBEK-20282] - Pre-Processor of the Flow Module has crashed.
- \* [SOBEK-20292] - Large differences when using DelftFlow in testmodel 042.
- \* [SOBEK-20293] - Large differences when using DelftFlow in testmodel 065.
- \* [SOBEK-20294] - Large differences when using DelftFlow in testmodel 122.
- \* [SOBEK-20299] - Server license does not work on 64-bits systems.
- \* [SOBEK-20319] - FLOW: Allocation error.
- \* [SOBEK-20331] - SCS - prevent very small negative runoff due to limited accuracy.
- \* [SOBEK-20333] - SOBEKSIM lateral discharge out gives NaN.
- \* [SOBEK-20346] - MIKE11 2008 import does not work, division by zero: Error in Sub Convert: [error #11].
- \* [SOBEK-20349] - PARSEN crashes when running model for longer period.
- \* [SOBEK-20364] - Problem with duration of rainfall event determination.
- \* [SOBEK-20366] - Import boundaries from SOBEK-RE incorrect.
- \* [SOBEK-20375] - Importing HEC-RAS model: Coordinates of structures and sections incorrect.
- \* [SOBEK-20389] - MODEL PASTE does not handle prefixes for SCS, HBV and External Runoff nodes.
- \* [SOBEK-20391] - Dike breach model crashes in 2.11 after deep cells fall dry.
- \* [SOBEK-20396] - Allocation error in model with SCS, HBV and External Runoff Catchments.
- \* [SOBEK-20397] - Wrong text in description of FLBO record for variable H.

- \* [SOBEK-20399] - Testcase 055\_011 crashes with SOBEKSIM v3.8.51 and higher versions.
- \* [SOBEK-20407] - SIDEVIEW does not start up.
- \* [SOBEK-20419] - SIDEVIEW does not display internal structures properly.
- \* [SOBEK-20435] - Wrong project name and title in SBKHELL.
- \* [SOBEK-20438] - Problem with pipe connected to Flow Linkage Node.
- \* [SOBEK-20442] - Wrong column references in MODELEDT.INI make Multiple Data Editor crash for Culverts and Orifices.
- \* [SOBEK-20444] - Modeledit: Negative water levels for local initial values not possible.
- \* [SOBEK-20445] - RTC Error message when parameter/location not found in external HIS file.
- \* [SOBEK-20446] - Hydroworks conversion: Type of Catchment Area is not imported correctly.
- \* [SOBEK-20447] - RTC HIS output parameter ' Sobek setpoints' should be changed 'Sobek setpoints' (without leading blank!).
- \* [SOBEK-20449] - Hydroworks conversion: Default value for manhole type.
- \* [SOBEK-20454] - Mike11 conversion gives error: One or more branches with invalid grid.
- \* [SOBEK-20460] - Rainfall on SCS and HBV nodes should be shown in RR balance under Rainfall, not under RR Runoff inflows.
- \* [SOBEK-20461] - WAQ calculation simultaneously with FLOW fails about 50% of the time.
- \* [SOBEK-20479] - CMT error: Not enough disk space.
- \* [SOBEK-20480] - Linkage nodes should not be stored double in HIS-Files.
- \* [SOBEK-20486] - SCS implementation in RR requires checks on slope>0, cn<100.
- \* [SOBEK-20489] - Culvert problems after importing Mike11.
- \* [SOBEK-20500] - SOBEK-RE import crashes.
- \* [SOBEK-20506] - CAT gives inconsistent timestep, while HIS-Files are equal.
- \* [SOBEK-20509] - CAT gives non consistent time step in case of series calculation.
- \* [SOBEK-20515] - Compatibility problem and necessary maintenance.
- \* [SOBEK-20530] - Generate calculation grid does not put grid points on both sides of general structures when structure and profile on same location.
- \* [SOBEK-20541] - RR-SCS should be extended with specification of Antecedent Moisture Conditions.
- \* [SOBEK-20542] - Areal adjustment factor on rainfall required for RR-SCS.
- \* [SOBEK-20544] - Validate network should also include all river structures.
- \* [SOBEK-20548] - Not all measurement locations referred to in Defstr.5 are saved in the network measurement location file (Network.me) when importing SOBEK-RE network.
- \* [SOBEK-20559] - Include RR-SCS and RR-HBV node types properly in RR-restart files.
- \* [SOBEK-20594] - ModelEdit single data editor and multiple data editor show different defaults in case AMC is not specified yet at SCS node.
- \* [SOBEK-20606] - SCS Time Lag not correctly handled in Multiple Data Editor.
- \* [SOBEK-20611] - Bug in Verheij vd Knaap for dambreaks fixed (introduced in DelftFlow version (SOBEK version v3.08.62.5903).
- \* [SOBEK-20653] - WQINP crashes.
- \* [SOBEK-20655] - Title of Link Tab in Edit Settings changes after second time opening window.
- \* [SOBEK-20665] - Import of SOBEK-RE model fails (subscript out of range).
- \* [SOBEK-20692] - Big numbers written by CONV-SBK make PARSEN crash.
- \* [SOBEK-20710] - Testmodel 106\_010 crashes with DelftFlow.
- \* [SOBEK-20712] - Default for Area Adjustment Factor (aaf) must be 1 i.s.o. 0 in Multiple Data Editor.
- \* [SOBEK-20748] - Delft3D does not work in latest DelftFlow.
- \* [SOBEK-20753] - 2D crash and strange high waterlevels.
- \* [SOBEK-20801] - Unpaved Soil Type in Multiple Data Editor must be greater than zero.
- \* [SOBEK-20820] - Incorrect drowned weir formula in Online Help.
- \* [SOBEK-20824] - The uninstall screen of the License Manager has wrong title.
- \* [SOBEK-20827] - With implementation of SOBEK-20544 check for profiles became too strict.

**\*\* Implemented new features**

- \* [SOBEK-15349] - Functionality extended export to DXF format.
- \* [SOBEK-17393] - Periodic time table for the Time controller.
- \* [SOBEK-18984] - Verhey-vdKnaap  $dB/dt=0$  if  $Q=0$  in pure 1DFLOW network.
- \* [SOBEK-19261] - Functionality Sort according to Name and distance (ODSVIEW).
- \* [SOBEK-19264] - Functionality Compound Structure.
- \* [SOBEK-19265] - Flow - Dam Break (1D reach element) also available in plain 1D schematisation (not only 1D2D).
- \* [SOBEK-19334] - Functionality RunOff-Node.
- \* [SOBEK-19722] - Summer and winter level for 1DFLOW-Controllers.
- \* [SOBEK-19744] - WAQ balance option.
- \* [SOBEK-19909] - Functionality dams and dam breaks in SBKBATCH.
- \* [SOBEK-19927] - Insert gridpoint before and after each structure for PI (Publised Interface) import.
- \* [SOBEK-19945] - Possibility to let RGFILTER create one event from the rainfall data.
- \* [SOBEK-20056] - Functionality to show loads in sideview (discharge \* concentrations or discharge \* fractions).
- \* [SOBEK-20158] - Output option for Hydr. rad, Disch, Area and Width to Rural and Urban 1DFLOW.
- \* [SOBEK-20213] - SUF-HYD Import handle 3 character area codes.
- \* [SOBEK-20278] - Functionality SCS Unit Hydrograph in RR.

**\*\* Implemented improvements**

- \* [SOBEK-16888] - Description equal filling percentage controller.
- \* [SOBEK-19263] - Functionality Identifier based on distance on reach (NETTER Re-ID)
- \* [SOBEK-19345] - All Sacramento data in one data file.
- \* [SOBEK-19364] - Temperature modelling in WAQ-module in METEO.
- \* [SOBEK-19404] - Installation bitmap too small for wide screens.
- \* [SOBEK-19511] - Extension of validation Sacramento Node.
- \* [SOBEK-19538] - Content of SOBEKSIM.INI available in report file SIMULATE.REP.
- \* [SOBEK-19715] - SOBEK on 64-bit Windows.
- \* [SOBEK-19721] - ParseField Function unnecessary complicated.
- \* [SOBEK-19746] - Add switch DoCharSet to DELFTLNG.DLL.
- \* [SOBEK-19777] - Correct License Manager Manual due to latest DS\_Flex.
- \* [SOBEK-19847] - Change "water quantity" results" into "flow results".
- \* [SOBEK-19936] - Output of "1D Flow -Dam break" gap area should be written as parameter "Breach area [m2]" instead of "Flow area [m2]".
- \* [SOBEK-19980] - Adaption of new Windows Service Packs into install scripts.
- \* [SOBEK-19991] - Imported Arch Type Profiles names based on width and height.
- \* [SOBEK-20047] - Inefficient behaviour when bui-file is used many times.
- \* [SOBEK-20064] - SUFHYD: Handling pipe-types for import and export.
- \* [SOBEK-20124] - Screens (start screen, ...) in tutorials update.
- \* [SOBEK-20165] - Free Trial Copy LICENSING CONDITIONS 2.12.
- \* [SOBEK-20227] - Loading RTC-Edit takes long time.
- \* [SOBEK-20241] - Message in case of different time steps in cases.
- \* [SOBEK-20271] - INI-File parameter for message delay is at unclear location.
- \* [SOBEK-20277] - RR-SCS node: extension with user defined SCS-Time lag.
- \* [SOBEK-20332] - Implement SCS Unit hydrograph and Time Lag in Multiple Data Editor.
- \* [SOBEK-20339] - Installation should show when Windows version is not supported.
- \* [SOBEK-20345] - Prepare SOBEK-Installation for replacement of SOBEKSIM by DelftFlow.
- \* [SOBEK-20367] - OpenMI compliant SOBEKSIM in 2.12 (NOFDP-IDSS).
- \* [SOBEK-20400] - Check on parameters of BaseFlow, InterFlow and QuickFlow Definition for HBV node.
- \* [SOBEK-20401] - WL | Delft Hydraulics and 2.11 references must be replaced by Deltares and 2.12.
- \* [SOBEK-20485] - ASCII Character 160 (Hex A0) can trigger BUFFER EMPTY.
- \* [SOBEK-20513] - Some maintenance due to SUFHYD-Extensions.

- \* [SOBEK-20521] - Add Area Adjustment factor to RR-SCS node.
- \* [SOBEK-20552] - Unit of input for K in RR-routing link: This should be added in the ModelEdit input screens.
- \* [SOBEK-20563] - Manual: Better explanation about 2D rainfall.
- \* [SOBEK-20670] - Manual: Change references to rainbow and globetrotter to Acreesso.
- \* [SOBEK-20673] - DS\_Flex should not install parallel port drivers on unknown systems.
- \* [SOBEK-20680] - Settings must allow 1DFLOW simultaneously with 1DWAQ.
- \* [SOBEK-20685] - Update phone and fax numbers in manual.
- \* [SOBEK-20693] - Make installation of Parallel Port drivers facultative and update Aladdin driver.
- \* [SOBEK-20697] - Implement Back-button in all the DS\_Flex-screens and support for Windows Server 2008.
- \* [SOBEK-20706] - Remove obsolete FlexLM Control Panel item from installation.
- \* [SOBEK-20722] - SIMULATE should check that anyhow all timesteps have been calculated.
- \* [SOBEK-20744] - Manual: Incorporate DS\_Flex changes.
- \* [SOBEK-20755] - Request for periodicity of 28 days for boundary nodes.
- \* [SOBEK-20760] - Make RR-Runoff results (EXT, SCS, HBV) visible in CAT.
- \* [SOBEK-20762] - Version info of DelftFlow.exe written in the Simulate.rep file.
- \* [SOBEK-20781] - Add version information to DelftFlow\_OpenMI.dll
- \* [SOBEK-20789] - Remove start menu link to <http://support.sobek.nl/>
- \* [SOBEK-20802] - Single Data Editor must show empty field when no Unpaved Soil Type is specified.
- \* [SOBEK-20847] - Manual: ReduceRROpenWaterInfiltrationAtNegativeVolume=-1 in Delft\_3B.Ini.
- \* [SOBEK-20889] - HBV and SCS concepts