Release Notes 2021

MIKE SHE

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Introduction

Welcome to MIKE SHE 2021 Update 1

In this Release Note you will find information about new features of MIKE SHE, and what you need to know in order to install and get started with Release 2021.

MIKE SHE is a modelling system for integrated catchment hydrology. MIKE SHE covers all aspects of the entire land phase of the hydrological cycle with specific strength in the dynamic interaction between surface water and sub-surface water (ground water).

System requirements

The recommended minimum system requirements are:

Fully supported Windows operating systems *	Windows 10 Pro, version 20H2/2009 (64 bit) Windows Server 2016 Standard (64 bit) Windows Server 2019 Standard (64 bit)
Processor	x64, 2.2 GHz (or higher)
Memory (RAM)	2 GB (or higher)
Hard disk	40 GB (or higher)
Monitor	SVGA, resolution 1024x768 in 16-bit color
Graphics adapter	64 MB RAM (256 MB RAM or higher recommended), 32-bit true color
File system	NTFS
Software requirements	Microsoft .NET Framework 4.7.2 or later

* Fully supported operating systems are systems that have been tested in accordance with MIKE's Quality Assurance procedures and where warranty and software maintenance agreement conditions apply.

Installation

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DHI License Management - If you are installing on a computer or server where you will also install the license file, please also install the DHI License Manager. It must be downloaded separately.

To install MIKE SHE, please go to the 'MIKE SHE' product folder and execute the setup.exe file either on the MIKE 2021 USB or from the downloaded, un-zipped installation files. Press the 'Install' button to begin installation.

License file and dongle

To use MIKE SHE in licensed mode, please refer to the DHI License Manager Release Notes (License Manager Release Notes).

Product invocation

Launch 'MIKE Zero' from the Windows Start menu. Then you can select MIKE SHE from within the MIKE Zero Shell.

Starting MIKE SHE without a DHI configured hardware key and valid licence files will cause the program to run in demo mode. If this happens, a message box will inform you during program initialisation. When running in demo mode, MIKE SHE supplies full access to all editors, computational engines and editing facilities. However, restrictions apply to the setups that can be executed as a model simulation.

Support

For general support, please refer to our FAQ.

If you experience any difficulties, or if you have questions, please contact our Customer Success team by e-mail or phone:

Customer Success
DHI A/S
Agern Allé 5
DK-2970 Hørsholm
Denmark

mike@dhigroup.com
Tel: +45 4516 9333

You can also contact your local Customer Success team for support in your local language. You can find the list here.

New features and fixed issues

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Release 2021 update 1

Every new release of MIKE SHE consists of new modules, new features and/or corrections to problems or significant inconsistencies discovered in previous releases. Please find short descriptions of the most significant news in Release 2021 update 1 below.

New features

Module/type	New feature
Land use/vegetation	Distributed vegetation parameters inputs enabled, including time-varying inputs.
General	"Run all" icon added to top ribbon to enable running pre-processing, water movement, and water quality together (TT8664)
Python interface	Added Python 3.9 support (TT57944)
Python interface	MShePy new feature: API access to model coordinate system (TT55017)

Fixed issues

Module/type	Error/Inconvenience
Water quality	WQ engine: Removed threshold for OL drain concentration output (TT57835)
Python interface	Removed check for non-default floating point control word when running mshe from python.exe (TT56203)
Unsaturated zone	UZ Soils Editor: Improved display of retention curves and conductivity curves (TT16430)
Results viewer	Corrected errors in display of water quality measures when large font selected in results viewer (TT56028)
Simulation statistics	Harmonized MIKE SHE and MIKE HYDRO River coordinates for stream locations when working with Simulations Statistics (TT55611)

Release 2021

Please find short descriptions of the most significant news in Release 2021 below.

New features

Module/type	New feature
General	New summary tables are now available that enable general overview and editing of model parameters.

Overland flow solver	Explicit overland flow solver now the default option (TT55226)
Particle tracking	Added copy/paste functionality for results extraction tables (TT54259)

Fixed issues

Module/type	Error/Inconvenience
MIKE HYDRO River linkage	Fixed errors occurring due to inconsistent sorting of branches in MIKE SHE and MIKE 1D (TT52304)
Saturated zone	Fixed erroneous warning regarding negative rainfall in SZ boundary data module (TT55453)
Python interface	Fixed memory link in python interface operator (TT55484)
Vegetation database	Fixed crash occurring if dfs0 used to define land use data and etv also active (TT56119)
Water quality	Fixed error occurring when using overland ponded drainage together with MIKE HYDRO River water quality/ECO Lab module (TT56180)
Vegetation database	Fixed problem with updating stage lengths in vegetation database (TT56577)
Water balance calculation	Fixed error occurring when using water balance calculation tool together with gradient SZ boundary condition (TT56579)
Irrigation	Fixed inconsistencies in irrigation demand GUI when specifying irrigation demands (TT56587)
Saturated zone	Fixed errors occurring when using ‘head-controlled flux’ internal boundary type in SZ engine (TT56625)
Irrigation	Fixed error in application of crop stress factor (TT56704)