

Release Notes 2021

MIKE FLOOD

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Introduction

Welcome to MIKE FLOOD 2021 Update 1

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

MIKE FLOOD is a flexible user interface framework for dynamic linking of MIKE's one-dimensional and two-dimensional flood modeling packages. MIKE FLOOD is the integrated flood modelling package for rivers (MIKE HYDRO River and MIKE 11), overland flow (MIKE 21), and urban drainage (MIKE+). This combination ensures maximum flexibility by allowing users to model some areas in 2D detail, while other areas can be modelled in 1D, and hence the perfect modelling tool to apply for a wide range of flood related application including Coastal flooding, Urban flooding and Riverine flooding.

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
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- * 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.
- ** MIKE FLOOD module for overland flow (specifically the MIKE 21 Flow Model FM – Hydrodynamic Module) utilizing GPU requires a Nvidia graphics card with compute capability 5.2 or higher. Please note that some of these graphics' cards have varying performance in single compared to double precision calculations. The GPU functionality is based on version 11.1.1 of the Nvidia® CUDA® Toolkit.

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 FLOOD, please go to the MIKE Zero 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.

The setup program will automatically install all necessary files and folders on your computer. Additionally, an entry is created in the Start Menu for MIKE Zero.

License file and dongle

To use MIKE software 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 FLOOD from within the MIKE Zero Shell.

Starting any MIKE Zero application without a DHI configured hardware key and valid license files will cause the program to run in demo mode. If this happens, a message box will inform you during program initialization. When running in demo mode, the MIKE Zero installation 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

Release 2021 Update 1

Every new release of MIKE FLOOD 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
MIKE FLOOD	Dynamic coupling in MIKE FLOOD of river and urban calculations with 3D surface flow calculations using the MIKE 3 Flow Model FM. This feature has been primarily designed to efficiently model complex river systems feeding three-dimensional coastal or estuarial domains.
MIKE FLOOD	Automatic generation of lateral links has been improved.

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New features

Module/type	New feature
MIKE FLOOD	Improved volume summaries for coupled models.
MIKE FLOOD	Improved flow description at standard links for rivers (MIKE 1D and MIKE 21 FMHD).