

Models linked to Delft-FEWS

The table below gives an overview of the models linked via the [Published Interface](#) or [NetCDF](#) to Delft-Fews by means of a model adapter. If you cannot find the information you need here, please contact the supplier / owner of the model adapter. The column **OC** indicates if a model and its adapter are used in an operational Delft-FEWS system. The column **wiki** links to the documentation when available. There is a separate overview of all documentation for [Delft-FEWS Model adapters by Deltares](#) only, but these adapters are listed below as well.

More information on how to create or use a model adapter can be found on [15 Connect external modules with a model adapter](#)



Note

Adapters that have not been developed by Deltares cannot be used without permission of the owner.



Tip

Click on the top of a column to sort.

OC	Model	Wiki for model adapter	Type of model	Supplier/Owner adapter	Country
	3Di	3Di adapter	Hydrodynamic	Deltares	Netherlands
Y	APICONT		Rainfall-Runoff	NWS	USA
Y	ARMA		Error Correction	CEH	UK
Y	BASEFLOW		Baseflow Simulation	NWS	USA
Y	CE-QUAL-W2		Water quality and hydrodynamic model in 2D (longitudinal-vertical)	Portland State University	USA
Y	CHANLOSS		Channel loss Simulation	NWS	USA
Y	CONSUSE		Consumptive use of River Simulation	NWS	USA
	Continuum		Continuous distributed hydrological model	CIMA Foundation	Italy
Y	Cosero		Rainfall-Runoff	Hydrotec	Germany
Y	DELFT-3D	Delft3D adapter (NetCDF)	2/3D Hydrodynamics	Deltares	Netherlands
	DELFT-3D	Delft3D adapter (XML)	2/3D Hydrodynamics/ Water quality	Deltares	Netherlands
Y	D-Flow FM	D-Flow FM adapter	2/3D Hydrodynamics	Deltares	Netherlands
	DIMR	DIMR adapter	DIMR is used to run a SOBEK 3 model in Delft-FEWS	Deltares	Netherlands
Y	DODO		Routing (layered Muskingum)	EA	UK
	DPWE Bank retreat model		River bank slope stability model	DPWE	Taiwan
	DPWE Landslide model		Transient rainfall infiltration and slope stability model	DPWE	Taiwan
	EFDC		Environment Fluid Dynamics Code (OpenDA wrapped)	EPA	Canada
	eWater Source	github , (Deltares access only)	rainfall-runoff, hydrological routing, river ops, developed by eWater	Flow Matters	Australia
	FAST	FAST adapter	Foreshore Assessment using Space Technology	Deltares	Netherlands
	FIAT	FIAT adapter		Deltares	Netherlands
Y	Flux		1D Hydrodynamics	Scietec	Austria
	GeNie	GeNie adapter	Bayesian Network	TuDelft	Netherlands
Y	GLACIER		Glacier simulation	NWS	USA
	Grid2Grid		Distributed Hydrologic Model	CEH	UK
Y	HBV	HBV pdf	Rainfall-Runoff (inc snowmelt)	SHMI	Sweden
Y	HEC-HMS	HEC-HMS adapter or pdf	Hydrological	USACE/ Deltares	USA
Y	HEC-RAS	HEC-RAS adapter or pdf	Hydrodynamic	USACE/ RMA	USA

Y	HEC-ResSim		Reservoir Simulation	RMA (Linux) / RTI (Windows, no official support)	USA
	Het Wageningen Model		Rainfall-Runoff	Haskoning	Netherlands
Y	HSPF		Hydrological Simulation Program-Fortran (OpenDA wrapped)	EPA	Canada
	HydPy	HydPy adapter (+ code repository link)	Hydrological framework (includes e. g. versions of HBV and LARSIM)	BCE/BfG	Germany
Y	Hydrotel	Hydrotel adapter	Distributed Rainfall-Runoff	INRS-Eau, Québec, Canada / Deltares	Canada
	HYPE		Hydrological Predictions for the Environment (SMHI)	Met Eireann	Ireland
Y	iMOD	iMOD Adapter	Groundwater model coupled to unsaturated zone + crop growth models (iMODFLOW-MetaSWAP-WOFOST)	Deltares	Netherlands
Y	ISIS (Flood Modeller Pro)	Model specific file, (Deltares access only)	Hydrodynamic	CH2M HILL	UK
	JFlow	JFLOW adapter	2D Hydraulic Model	JBA Consulting	UK
	Kanali		Routing (hydrodynamic)	Deltares	Argentina /Paraguay
Y	KW		Routing (kinematic wave)	CEH	UK
Y	LAG/K		Routing (hydrological)	NWS	USA
Y	LARSIM		Rainfall-Runoff	Hydron (by order of BAFU)	Germany
	LAYCOEF		Routing Model	NWS	USA
	LAYCOEF			NWS	USA
	LISFLOOD-FP		2D hydrodynamic model (floodplain inundation), University of Bristol	WMO	UK
Y	Lowflow		Rainfall-Runoff	Hydrotec	Germany
Y	MCRM		Rainfall-Runoff	EA	UK
Y	Mike11 , MIKE Hydro River models abd MIKE 1D engine	(Deltares access only)	Hydrodynamics Download the adapter version 1.0 here: https://github.com/DHI/MIKE.FEWSAdaptor/releases or for the latest version https://github.com/DHI/MIKE.FEWSAdaptor	DHI	Denmark
Y	Model Merging Module (MMM)	LINK TO DOCUMENTATION IS COMING	Module to merge multiple forecasts into single 'best' forecast.	Deltares-USA	USA
	Modflow96/VKD		3D groundwater	Deltares/Adam Taylor	Netherlands/UK
Y	MUSKROUT		Routing Model	NWS	USA
Y	NAM		Rainfall-Runoff	DHI	Denmark
	NASIM	MORE INFO IN PROGRESS	Rainfall-Runoff	Hydrotec	Germany
Y	OpenDA	OpenDA adapter	Open Data Assimilation software	OpenDA association /Deltares	Netherlands
	OpenStreams		OpenStreams (General adapter or/and OpenDA wrapped)	Deltares	Netherlands
Y	PACK		Snow Melt	CEH	UK
	PCOverslag	PCOverslag adapter	Calculation of wave overtopping and wave runup	Deltares	Netherlands
Y	PCRASTER		Dynamic Modelling Software	Pcraster environmental software	Netherlands
Y	PC SWMM		Hydrodynamic	eThekwini Municipality (Durban)	South Africa
	PDM	Model specific file, (Deltares access only)	Rainfall-Runoff	CEH	UK
	PREVAH		Distributed Rainfall-Runoff	WSL-Switzerland	Switzerland
Y	PRTF		Event Based RR	PlanB	UK

Y	Raven	Raven integration	Semi-Distributed Rainfall-Runoff		Canada
Y	RESSNGL		Reservoir Simulation	NWS	USA
	REW		Distributed Rainfall-Runoff	Deltares	Netherlands
	RFSM		Rapid Flood Spreading Model	HR Wallingford	UK
Y	RIBASIM	RIBASIM Adapter	Water distribution + Reservoir	Deltares	Netherlands
Y	RSNELEV		Rain Snow Elevation Simulation	NWS	USA
Y	RTC Tools	RTC-Tools integration	Real-Time Control, Model Predictive Control, Reservoir Simulation	Deltares	Netherlands
Y	Sacramento		Rainfall-Runoff	Deltares	Netherlands
Y	SAC-SMA		Rainfall-Runoff	NWS	USA
Y	SAC-SMA-HT		Rainfall-Runoff (Heat Transfer)	NWS	USA
Y	SARROUTE		Routing (hydrological)	NWS	USA
	SelfeWWMII		Circulation model, Open Source Model and wiki	Université de La Rochelle	USA, France
Y	Snow17		Snow Melt	NWS	USA
	SMAP		Rainfall-Runoff	Deltares	Brazil
Y	SOBEK		Hydrodynamics, Water Quality, RR	Deltares	Netherlands
	SOBEK-2d		Linked 1d/2d inundation modelling	Deltares	Netherlands
Y	SSARRESV		Reservoir Simulation	NWS	USA
	StarWars		Transient rainfall infiltration and slope stability model	Utrecht Universiteit	Netherlands
Y	STF		Transfer functions	EA	UK
	SWAN	SWAN adapter	Wave model	Deltares	Netherlands
	SWAT	SWAT adapter	Wave model	Deltares	Netherlands
	EPA SWMM	EPA SWMM Java adapter	Storm water Rainfall-Runoff	Deltares	Canada
	EPA SWMM	EPA SWMM Python adapter	Storm water Rainfall-Runoff	Matrix Solutions	Canada
Y	SynHP		Hydrodynamics	BfG	Germany
	TALSIM-NG		Rainfall-Runoff, routing (hydrological), reservoir simulation	SYDRO Consult GmbH	Germany
Y	TATUM		Routing Model	NWS	USA
Y	TCM		Rainfall-Runoff	CEH	UK
	Telemac		Free-surface maritime or river hydraulic model (2D)	Open Source Model Adapter by IMDC	Belgium
Y	TETIS		Hydrologic Model	University Polytechnic of Valencia	Spain
Y	TOPKAPI		Rainfall-Runoff	Univ. of Bologna	Italy
Y	TOPKAPI-X		Rainfall-Runoff	Idrologia & Ambiente S.r.l.	Italy
Y	TRITON		Surge propagation/Overtopping	PlanB	UK
Y	TUFLOW		2D Hydrodynamics	BMT Global	UK, AUS
Y	TWAM		2D Hydrodynamics	PlanB	UK
Y	Unit-HG		Unit-Hydrograph	NWS	USA
Y	URBS (exe 2008)	(Deltares access only)	rainfall-runoff and hydrological routing	Don Carroll	Australia
	URBS (java 2013)	URBS parameter adapter	rainfall-runoff and hydrological routing	Deltares	Netherlands
	WALRUS		Wageningen Lowland Runoff Simulator	Wageningen University	Netherlands
Y	Wanda	Wanda Adapter	Waterhammer model	Deltares	Netherlands
	WASIM-ETH		Distributed Rainfall-Runoff	Joerg Schulla	Switzerland
	WaterRIDE		2D hydraulic interpolation	Worley	Australia
	WATFLOOD	WATFLOOD model adapter	Distributed hydrological modelling	Deltares / Manitoba Hydro	Canada
Y	WES	WES adapter	Wind Enhancement Scheme	Deltares	Netherlands

Y	Wflow.jl	Wflow julia adapter	Wflow.jl distributed hydrological model	Deltares	Netherlands
	WW3	WW3 model adapter	Wave model	Deltares	Netherlands
	XBeach	XBeach Adapter	morphodynamic model	Deltares	Netherlands