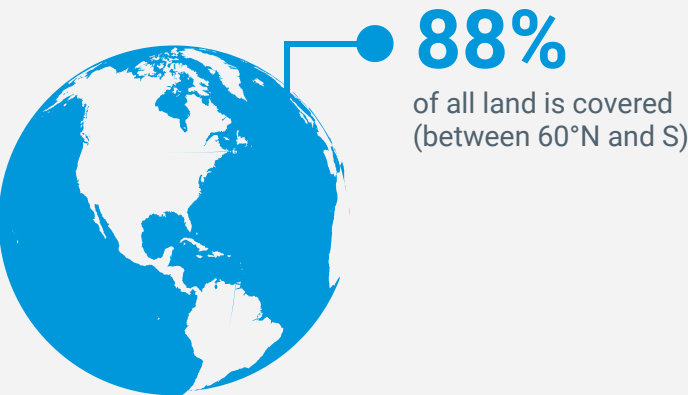# DHI's Global Hydrological Model

A new approach in hydrological modelling and forecasting services
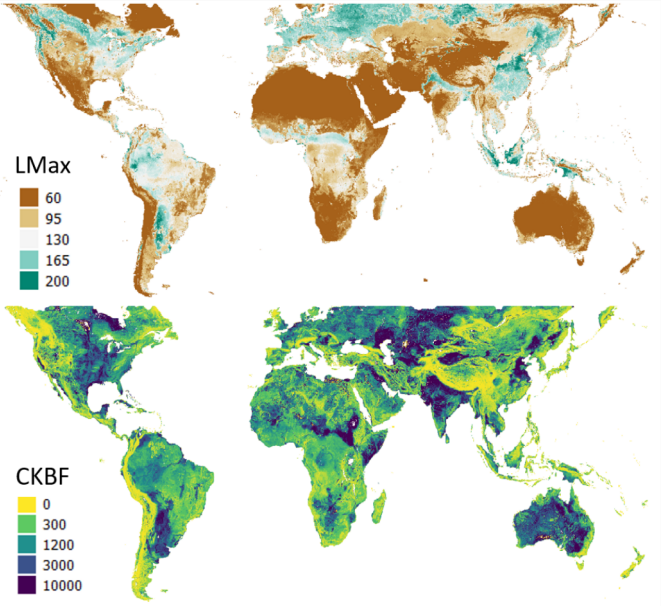
High spatial resolution

DHI's global hydrological model has a 0.1 by 0.1 deg resolution

88%
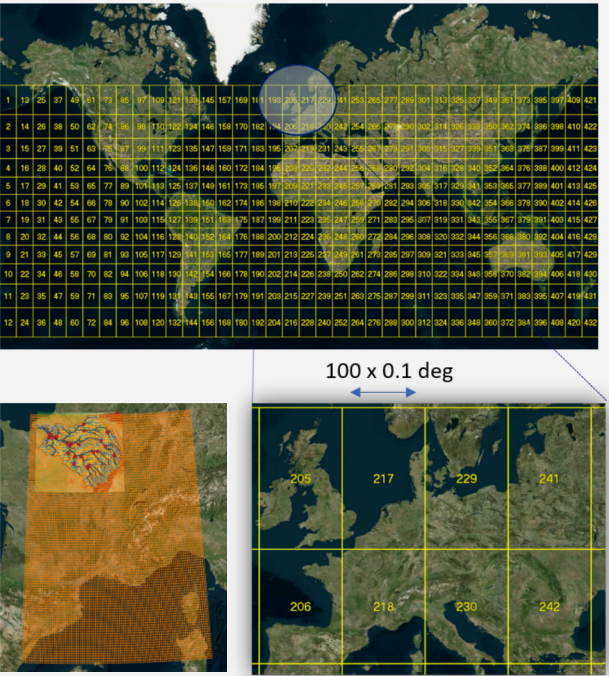of all land is covered (between 60°N and S)

GLOBAL Estimated parameters

Parameters for the NAM models are estimated on a global scale and used to generate all the models without calibration and validation

LMax
- 60
- 95
- 130
- 165
- 200
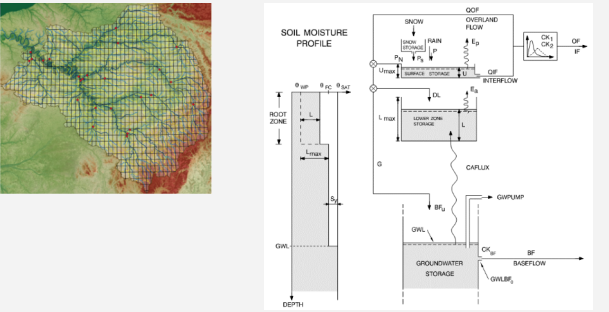
CKBF
- 0
- 300
- 1200
- 3000
- 10000

Semi distributed models

More than 1 million NAM models are created and connected, together with a fast river router to form the global hydrological model
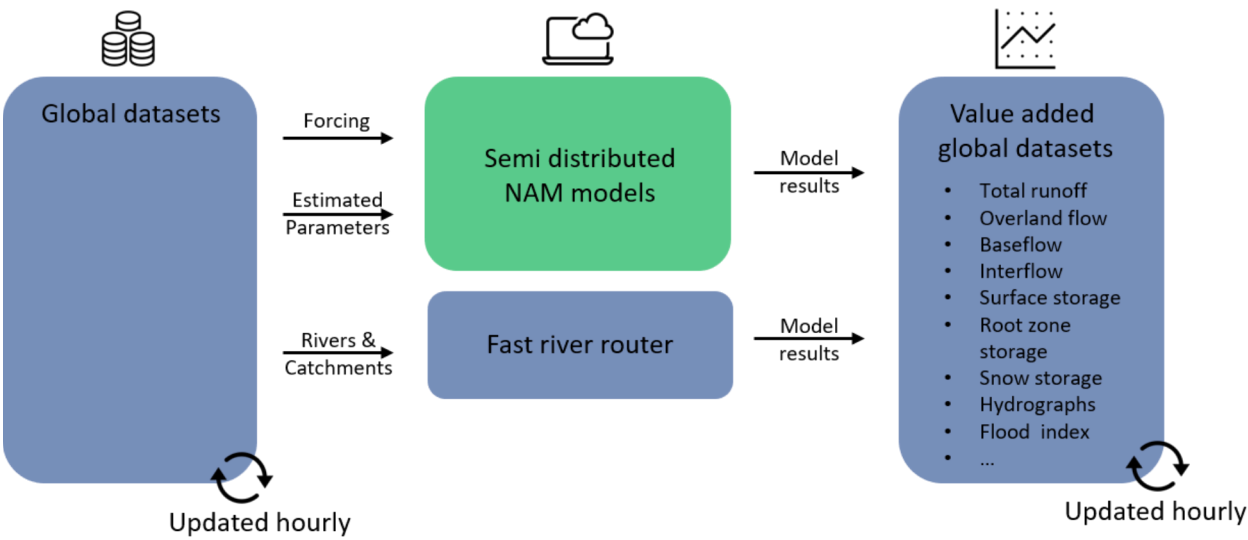

100 x 0.1 deg

Each land tile consists of 10,000 NAM models and is routed in-grid, within basins and between basins

High temporal resolution

Up to 15 days forecast with hourly timestep and up to 20 years of historical data

How it works

Global datasets

Forcing →

Estimated Parameters →

Rivers & Catchments →

Semi distributed NAM models

Fast river router

Model results →

Model results →

Value added global datasets
- Total runoff
- Overland flow
- Baseflow
- Interflow
- Surface storage
- Root zone storage
- Snow storage
- Hydrographs
- Flood index
- ...

Updated hourly

Updated hourly

Open to the world

The global hydrological model will be a data product provided through the MIKE CLOUD platform and will be available soon

Cloud based and readily accessible from the web

APIs allowing high interoperability with systems

Extendable to combine with other analytics and data

Contact **BLUE** for more information
(czc@dhigroup.com | hem@dhigroup.com)

DHI