

MIKE 21/3

Evaluate sustainable port solutions in less time

Intuitive port & terminal modelling software

Accurately simulate the full spectrum of coastal and marine processes and efficiently transform model results into sustainable port engineering solutions.

- **Assess any coast and sea concern** - Hydrodynamics, waves, sediments, water quality & ship movements - you can model it all.
- **Create exactly the model you need** - Pick and choose from specialised modules to create a custom modelling framework - truly a digital twin.
- **Produce high quality work in less time** - Boost productivity with access to data and a wealth of first class proven modelling tools.
- **Have full confidence in your model results** - Trust your results to the premiere, science-based software platform.



I have found that MIKE 21/3 has a broad and useful range of technical advances, numerical stability, user-friendly interfaces and importantly, strong customer service support from the DHI expert team. DHI has considered the real needs of engineers, such as myself, and incorporated them effectively into the MIKE 21/3 software package.

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Senior Coastal Engineer
Stantec

Specialised MIKE 21/3 modules

Pick and choose which applications are best suited for the nature of your work and intended outcome for maximum flexibility. Alternatively, select from one of our pre-bundled **software subscriptions** for the greatest value.

MIKE 21 Boussinesq Waves - Assess short/long wave disturbances in ports to support layout optimisation and use the model output to calculate vessel operability.

MIKE 21 Mooring Analysis - More efficiently manage cargo operations between terminal-to-ship and ship-to-ship with highly precise dynamic vessel response assessment.

MIKE 21 Shoreline Morphology - Model long-term shoreline evolution to mitigate downdrift erosion and updrift sedimentation in dredged channels and port entrances.

MIKE 21 Spectral Waves - Establish wave conditions adjacent to ports and terminal for input to wave agitation and ship mooring modelling and design for breakwaters.

MIKE 21/3 Mud Transport - Estimate siltation rates to design a new approach channel, deepen existing channels, optimise navigation, manoeuvrability and reduce the need for maintenance dredging.

MIKE 21/3 Sand Transport - Inform the design of sediment management strategies based on current, wave and sediment transport data in key port areas.

MIKE 3 Wave FM - Directly evaluate port layouts against berth operability and predict the consequence of each layout using this advanced 3D phase-resolving model.

 To learn more about our port services and technology, visit: waterchallenges.dhigroup.com/port-efficiency-solutions-to-global-challenges/