MIKE 21 Spectral Waves

Better predict the power of wind-waves
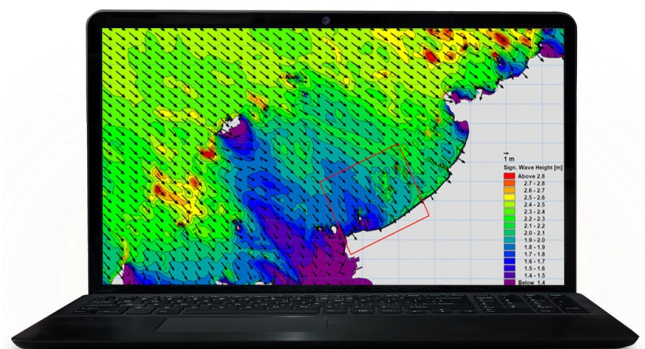
Why MIKE 21 Spectral Waves?

When designing structures, the accurate assessment of wave conditions is of major importance. Professionals across the globe rely on this proven spectral wind-wave model to analyse wave climates in offshore and coastal areas to protect their valuable assets.

With MIKE 21 Spectral Waves, you can formulate solid environmental design criteria and operational conditions by calculating multi-year wave hindcast. Provide key input to breakwater design, wave agitation and dynamic ship mooring modelling by establishing wave conditions adjacent to ports and terminals. You can even predict tomorrow's conditions in any body of water where accurate meteorological forecast data is available and determine their effect on erosion and coastal flooding.

- **Calculate wind-waves in all seas - easily and accurately**
- **Efficiently transform offshore wave fields to coastal areas**
- **Create reliable and fit-for-purpose wave data to address wave concerns where quantitative and detailed knowledge of wave conditions is important**
- **Seamlessly integrate MIKE 21 Spectral Waves with other MIKE models for dynamic coupled modelling including long term morphological simulations**
- **Perform quality work at rapid pace**

Additional features & capabilities

- Perform high-end computation and MPI parallelisation
- Efficiently generate unstructured meshes
- Analyse and visualise unstructured data using a built-in Data Viewer
- Supports both depth-adaptive and boundary-fitted unstructured mesh providing optimal flexibility
- Complete more comprehensive studies with an extensive range of model output parameters
- Calculate the distinction between wind-sea and swell
- Includes fully spectral formulation and directional decoupled parametric formulation

To learn more about MIKE 21/3 Spectral Waves, visit: **www.mikepoweredbydhi.com/products/mike-21/waves/spectral-waves**

The expert in **WATER ENVIRONMENTS**

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