

JOIN
THE GROWING
GLOBAL COMMUNITY
WITH MORE THAN 2000 USERS

MetOcean On Demand Data Portal

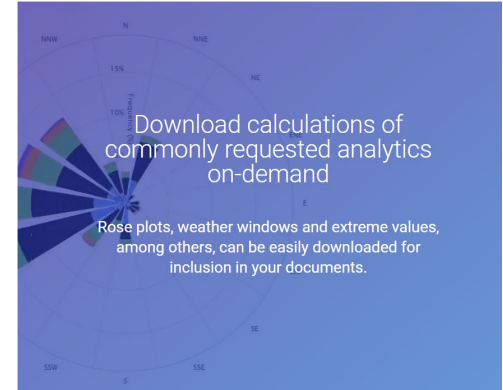
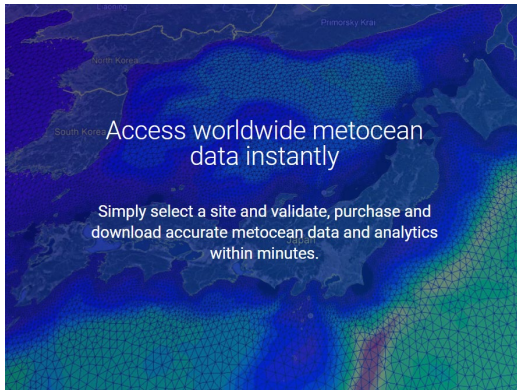
MIKE Powered by DHI, UK & Ireland Symposium 2023

Date: 13 June, 2023

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Features <https://www.metocean-on-demand.com/features>



- New technology and subscriptions
 - Data and service hosted in Azure for performance, security and scaling
 - New subscriptions: Get Unlimited* access! (See [Pricing](#))

Try it all for FREE on fx the 'TNW' (Dutch North Sea) datasets!

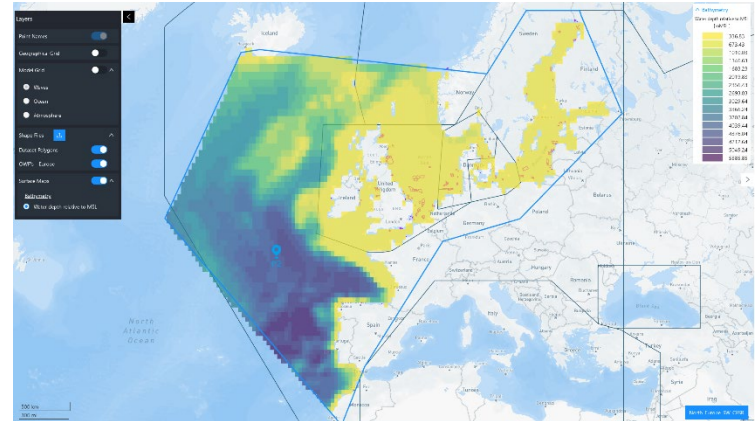
Demo! <https://www.metocean-on-demand.com>

New and coming features and datasets

Features

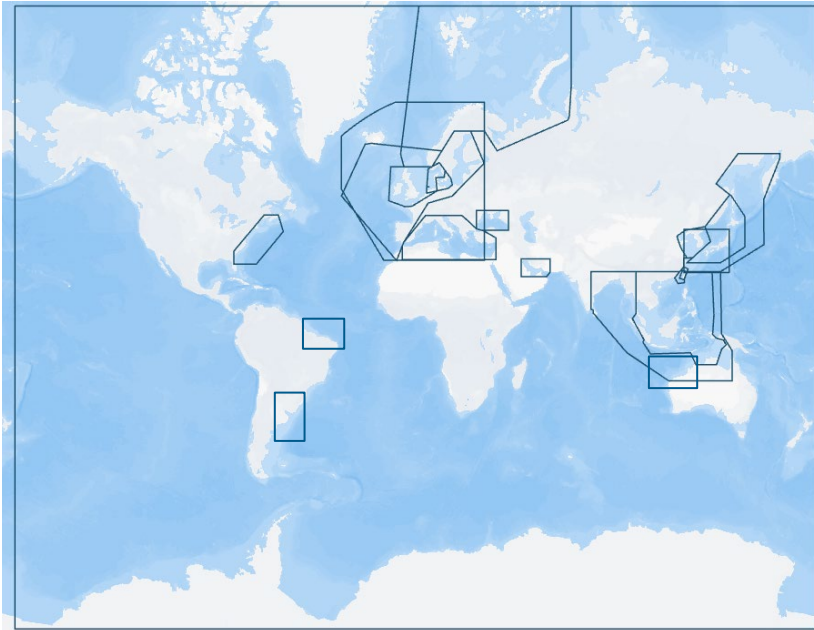
<https://www.metocean-on-demand.com/features>

- Improved workflows & performance
 - Automatic selection of best metocean data (anywhere)
 - Move your point on the map by drag-and-drop
 - Water depth and grid cell size given at each point
 - Support for multi-point and multi-dataset requests
 - Fast preview Analytics (time series and rose plot)!
 - Upgraded data files (.csv, .mat, .nc, .dfs) w. metadata
 - Notification center – Get latest news and releases
 - New Analytics: Exceedance, Statistics and Tidal levels
 - Auto-report for Metocean Assessment initiated (50%)
 - Refactoring to .net 7
 - IAM integration with MIKE Cloud



New Datasets (40+ years, 200+ TB)

<https://www.metocean-on-demand.com/metadata>



...



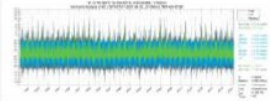


- 88. **Black Sea** - First regional Wave model
- 89. **Middle East** - New Wave and Ocean models (PERGOS)
- 90. **Taiwan (v2)** - Typhoons Wind, Wave and Ocean models!
- 91. **South Korea** - Typhoons Wind, Wave and Ocean models!
- 92. **Japan (v2)** - Improved resolution at OWF areas
- 93. Global (ERA5) New Wave model forced by modified ERA5
- 94. *Brazil* - Regional Wave and Ocean models - Coming soon!
- 95. *Australia NW* - Wave and Ocean models


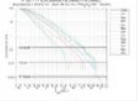
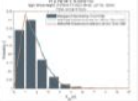
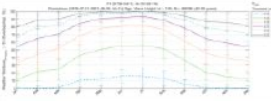
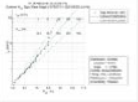
...Quarterly updates of main (hindcast) models

...Wave spectra (90% complete)

Analytics+ (interactive)

<https://www.metocean-on-demand.com/features#analytics>

Interactive analytic	Example
1. Time series	
2. Statistics	
3. Tidal levels	
4. Scatter plot	
5. Scatter table	

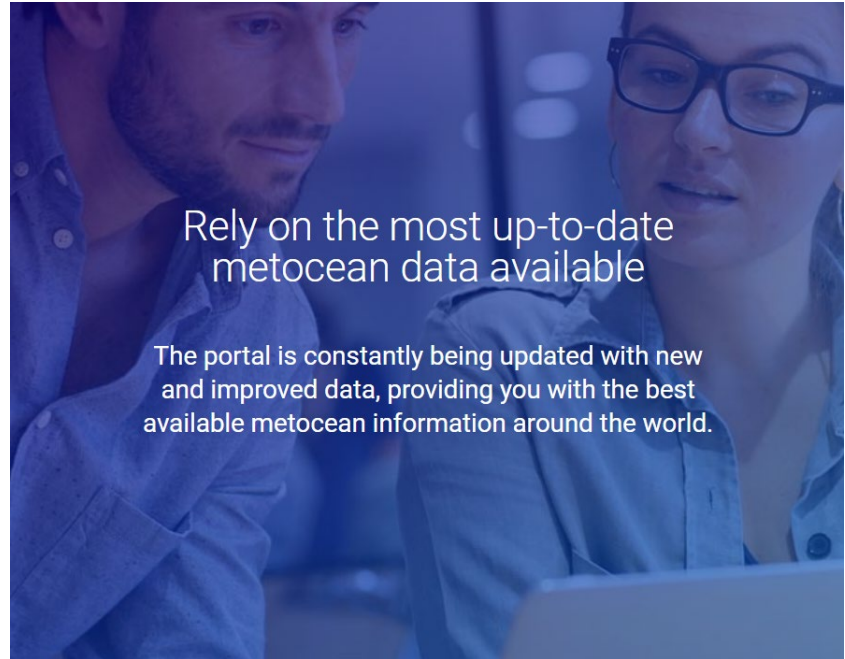
6. Rose plot	
7. Exceedance	
8. Histogram (Weibull fit)	
9. Persistence (Weather windows)	
10. Extreme values (EVA)	

Σ = *Metocean Site Conditions / Screening purposes*

The analytics can be configured interactively by the user

Our plans for H2 2023...

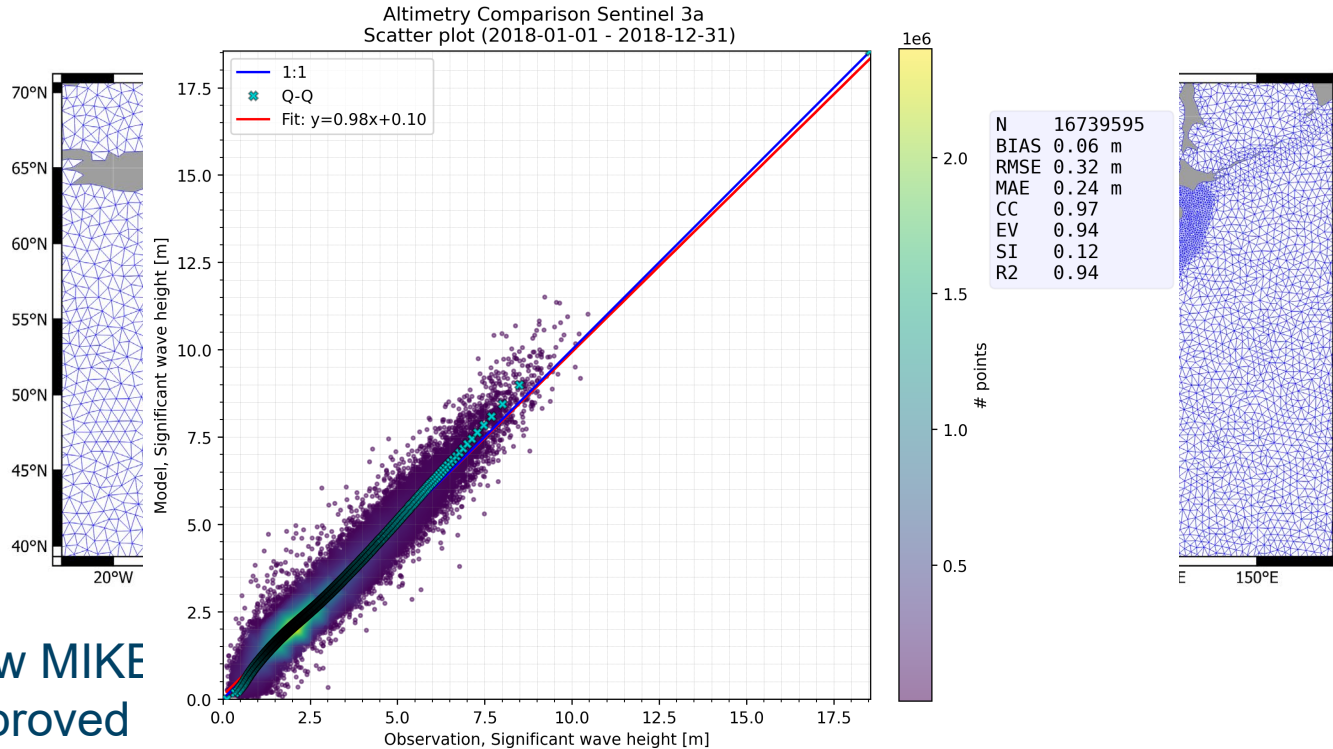
- Validation service (in-situ)
- Fast Wave Emulator integration
- Auto-reporting (early phase)
(*'Metocean Site Conditions.pdf'*)



Rely on the most up-to-date
metocean data available

The portal is constantly being updated with new
and improved data, providing you with the best
available metocean information around the world.

Newly developed Global Wave Model (2022)



- New MIKE
- Improved
- Relatively high spatial resolution (down to 15km)
- High 2D wave spectra resolution (36*36)

Verification against insitu measurements

The screenshot displays the DHI Metocean Data Portal interface. At the top, the navigation bar includes the DHI logo, 'Metocean Data Portal', and menu items: ABOUT, PRICING, DATASETS, FEATURES, CONTACT. On the right, there are buttons for 'Get Started', 'Make a new point', a shopping cart icon, a notification bell, and a user profile icon 'AA'.

The main map area shows a bathymetry map of the North Atlantic region, with a color scale for 'Water depth relative to MSL [mMSL]' ranging from 375.03 (yellow) to 3660.26 (dark blue). A tooltip for 'DMI 45' is visible, showing coordinates (Long 25.99999, Lat 28.00000) and source information. A 'New point in this location' button is present in the tooltip.

On the left, a 'Layers' panel is active, showing 'Local Model area', 'Local Model points', and 'In situ measurements' as checked. Below it, the 'Model Grid' is toggled on, and 'Waves' and 'Ocean' are selected.

The 'Validation' section is active, showing a 'Time Series Plot' for 'Waves' with the variable 'Sign. Wave Height'. The plot displays data for 'Model a' (red), 'Model b' (green), and 'In situ' (blue) from July to June. The 'In situ' data shows a clear seasonal cycle. A 'P1' point is selected, with its coordinates (Long 25.99999, Lat 28.00000) displayed. A note indicates 'This is the closest measurement station.' and identifies 'DMI43' as the provider.

On the right, the 'Points' panel shows a list of points, with 'P1' selected. It displays the coordinates (Long 25.45654, Lat 28.21536) and provides options for 'Validation', 'Analytics', and 'Reports'. Below this, the 'Waves' section is expanded, showing 'Model data' for 'Local and global' with a date range from 1979-01-01 to 2021-12-31. A table of model data is shown:

Parameter	Grid cell size [m]	Price [EUR]
Water depth [mMSL]	89.3	23218.4
		4300.-

An 'Add to Cart' button is visible next to the price. The 'Ocean' and 'Wind' sections are also visible in the panel.

At the bottom, a 'Disclaimer' link is provided, and the footer contains the text 'Longitude [°E], Latitude [°N]: 8.8082, 46.724' and '© Mapbox © OpenStreetMap Improve this map'.

Thank you for joining

