MO4 FORECASTING

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Vessel motion forecasting:

Making the call to start or stop an offshore operation is extremely difficult. There is a lot at stake: safety of the people on board, an expensive vessel, project deadlines, equipment limits, consequential project costs, delays, and so on. On top of this, the risk caused by rapidly varying weather conditions need to be considered.

The result is that decisions are made largely based on experience or gut feeling, because of the large number of parameters, interests, and uncertainties. With many stakeholders typically involved in offshore operations, managing this task is never an easy one.

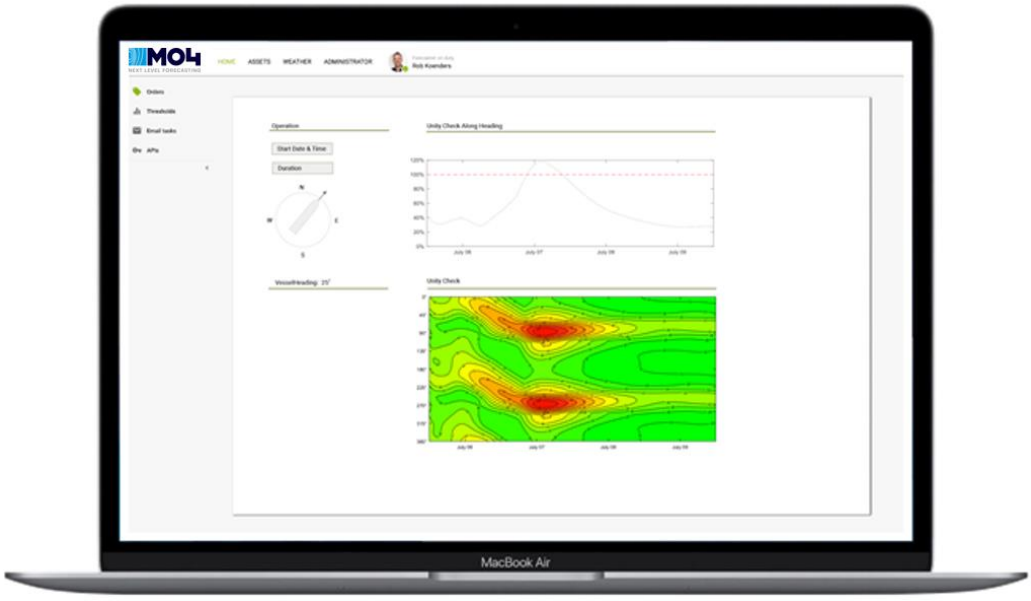
MO4 Forecasting takes a large chunk of this complexity away. Our technology accurately forecasts vessel operability. By doing so, we remove the guesswork involved when assessing wave height as limiting parameter for offshore operations. This results in a clearer decision-making process, higher workability, and increased safety on board.

MO4 Forecasting is a web application that is used to plan offshore operations and manage weather risk for up to seven days in advance. Weather risk for a specific vessel, location and operation is visualized in a simple yet smart way. Smart decisions can finally be made once the risk is accurately known. Decisions that can save costs or even improve earnings. Choices such as changing heading, sailing out a few hours earlier or rather remaining in port.

MO4 Forecasting makes planning of offshore operations smart.

Benefits

- ✓ Less delays in critical weather conditions
- ✓ Easy and user friendly system
- ✓ Increase safety of crew and equipment
- ✓ Reduce emissions and fuel consumption due to increased operational efficiency



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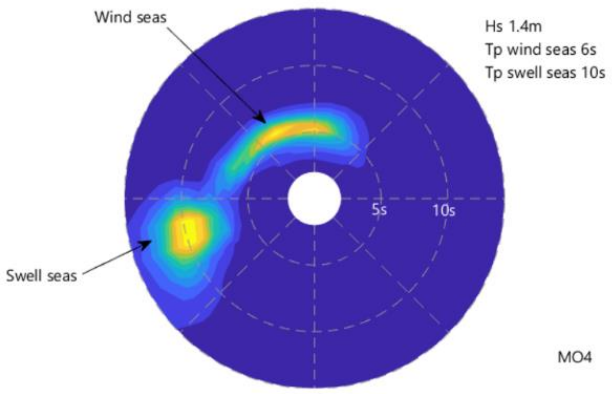
How does it work?

The user logs in onto the MO4 Forecasting environment, accesible via every common web browser from every desired location. Only internet acces is required.

One can select a vessel type from the extensive MO4 vessel database or request us to include a specific vessel.

Based on the user-specified operational location of the vessel, the weather forecast is retrieved. The weather forecast is provided in 2D wave spectrum format enabling the most accurate motion prediction based on both swell and wind seas.

The vessel motions are calculated for every vessel heading and visualized in an intuitive user interface.



2D wave spectrum used by MO4 Solution

The user is able to define operational motion limits. The MO4 Forecasting solution checks whether these limits are exceeded and visualizes the result in a clear graph.

Features

✓ Easy to use web app

✓ Intuitive user interface

✓ Easily combined with Data Analytics

✓ Vessel heading optimization

✓ Combine all operational limits

✓ Transparent decision making

✓ API communication possibility

Vessels types

✓ SOV (service operation vessel)

✓ OCV (offshore construction vessel)

✓ PSV (platform supply vessel)

✓ CTV (crew transfer vessel)

✓ CLV (cable-lay vessel)

✓ HLV (heavy lift vessel)

✓ Survey vessel

It is possible to include your specific vessel geometry in the MO4 Forecasting solution.

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