

MAERSK CURRENT FORECAST

APPLICATION FINEL2D FOR AREAS AROUND THE WORLD

Maersk covers a wide traffic network across international waters. Their vessels experience a large variety of tidal currents in shallow water traffic lines, influencing the route planning and fuel demand. Maersk asked the Meteogroup and Svašek Hydraulics to deliver tidal current field predictions for 8 regional areas.

- High-resolution FINEL models (2D modus) are developed for 8 regions:
- Persian Gulf
- North-West European Shelf
- Gibraltar Strait
- South China Sea (incl. Malacca Singapore)
- East China Sea (Yellow Sea)
- North-Australian waters
- North of Suez Canal
- South of Suez Canal

The current fields in these models are weather affected by using the wind and air pressure forecast from ECMWF. Current fields outside the high-resolution regional areas are from the global MERCATOR flow modelling, to which tidal current components haven been added, based on the TPX09 tidal atlas.

The current fields simulated by the regional high resolution FINEL models (2 -5 km grid size) and are delivered as GRIB files. These files are updated 4 times a day and contain a forecast period of 9 days.

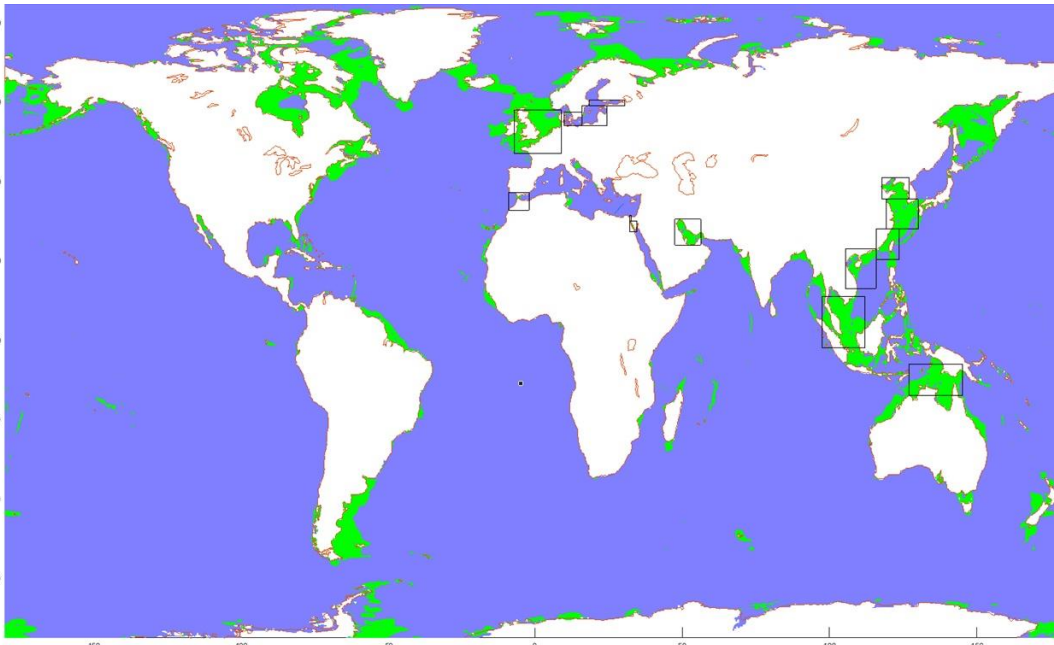
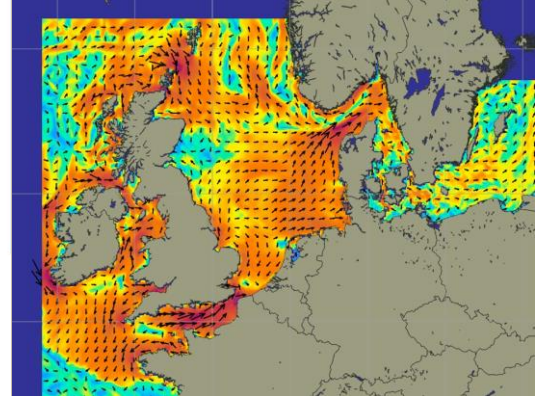
Using measurement data, Svašek Hydraulics has shown that FINEL2D is an accurate and detailed tool to determine the currents in regions with a predominant tidal regime.

CLIENT
Maersk

LOCATION
Global

DATE
2019 - ongoing

SERVICES
Deliver tidal current field predictions for 8 regional areas across the world.



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