SH OM

SHOM OPERATIONAL OCEAN FORECASTING PLATFORM

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CONTEXT

Shom has developed its own operational regional ocean forecasting platform. The purpose is to provide 3D oceanographic data for both civil and military uses over Shom areas of interest.

MILITARY USES

SOAP (Operational Oceanographical Forecasting and Analysis System) is the Shom operational system that provides real time defense products from model outputs and observations.
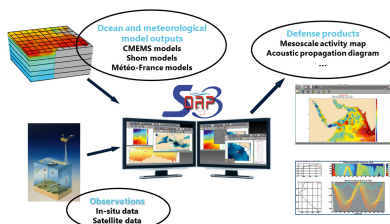
CIVIL USES

Shom oceanographic forecasts along the French coasts are disseminated on data.shom.fr web portal. Specific forecasts are also daily directly delivered to the ASNR[1] to estimate the radionuclides dispersion at sea.

1 - ASNR : Autorité de Sûreté Nucléaire et de Radioprotection
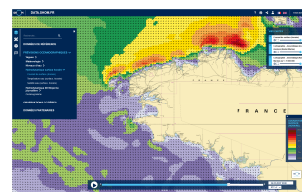

Data.shom web portal

SLOOP – SHOM LITTORAL TO OPEN OCEAN PLATFORM

Three regional configurations based on the HyCOM code are deployed on Météo-France's operational computer via SLOOP. SLOOP is a Shom python package which handles the pre- and post-processing of the modeling. It is associated with the Météo-France Vortex python package for the management (transfer, archiving and execution) of resources such as executables, ephemeral and static data.

Simulation sequence scenario

Bay of Biscay   Mediterranean Sea   North-Western Indian Ocean
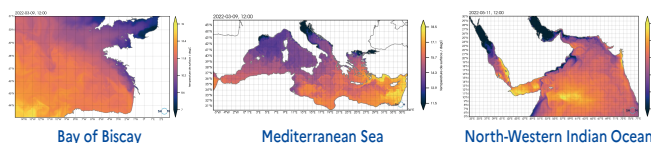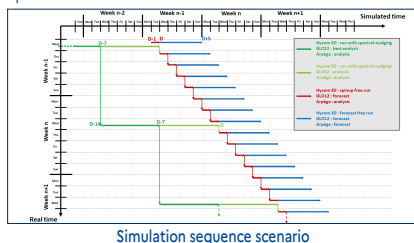
VALIDATION

Regular validation is carried out using satellite and in-situ observations. In particular, forecasts are compared with ocean cruises data.
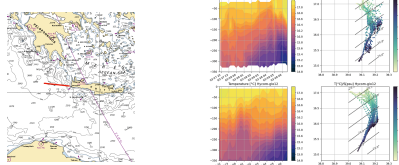
Comparison with seasoar measurements off Crete

PERSPECTIVES

• Transition of operational configurations to CROCO ;

• Implementation of a new Northern seas configuration ;

• SLOOP developments (changes to inputs/outputs, adaptation to CROCO, etc.).

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