Shom operational regional ocean forecasting system

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Shom has developed its own operational regional ocean forecasting system. The purpose is to provide 3D oceanographic data for both civil and military uses over Shom areas of interest. Currently, the operational system covers the Bay of Biscay and the Mediterranean Sea. The Shom north-western Indian Ocean model should integrate the operational system by the end of 2021. All these regional models are based on the HYCOM community code (www.hycom.org) modified by the Shom for its regional/coastal needs. First, these three models involving many different processes (thermal fronts, tide and internal tide, eddies dynamics, density currents…) are briefly described. The second part deals with the military use of these forecasts via SOAP, the Shom operational system which provides defence products. The third part deals with the civil use of the forecasts. In particular, the main oceanographic forecast services offered by the Shom online platform (http://data.shom.fr) are presented.