NOOS annual report 2014

Member report - FCOO

September 2014

Country	Denmark
Institution	Defence Center for Operational Oceanography
Modelling **Status and new initiatives**	*Status:* Operational barotropic 2D model covering the Northern North Atlantic. To generate open boundary conditions to baroclinic model. Operational: baroclinic 3-dimensional model covering North Sea – Baltic Sea region - GETM code One way nested (1nm. and 1/3 nm.). 60 vertical layers, general vertical coordinates 4x daily 56 hour Wave model Wave Watch III - Three one way nested models, with focus on the inner Danish waters. The horizontal resolution for the North Atlantic model, North Sea – Baltic Sea, and the Inner Danish water models are 9nm, 3nm and 1 nm, respectively. 56 hour forecasts 4 times a day Seatrack Web: - Oil dispersion model for the Danish Waters and Baltic Sea Under development: - Sea ice module for the operational model (GETM) in the North Sea – Baltic Sea region - Oil drift system SeaTrackWeb web is being setup for Greenland waters - Operational model (WW3) for the Arctic Ocean and Northern North Atlantic including the Greenland Waters
Dissemination **Status and new initiatives**	*Status:* Internet service (public): Real-time observations and forecasts available at ifm.fcoo.dk <table><tr><td>Observations (Source: Danish Meteorol. Inst.)</td><td>Forecasts</td></tr><tr><td>• Sea level</td><td>• Wind (Eksternal source: DMI Hirlam) • Sea level • Sea temperature • Salinity • Near-surface currents • Wave height (significant) • Wave direction (main)</td></tr></table> Under development - New web based dissemination product, IfM Maps, based on web map services and Leaflet Ftp box services: - Sea level forecast at selected stations. The NOOS project e-surge - Cross section transports. To MyOcean2 project: MME 2D fields of salinity, temperature and currents (0-5m average). To MyOcean2 project: MME
Relevant international projects	*eSurge project* *Multi-Model-Ensemble (MME) project*