NOOS annual report 2016

Member report - FCOO

September 2016

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
Dissemination **Status and new initiatives**	**Status:** Internet service (public): Real-time observations and forecasts available at IFM Maps (ifm.fcoo.dk) <table><tr><th>Observations (Source: Danish Meteorol. Inst.)</th><th>Forecasts</th></tr><tr><td>• Sea level</td><td>• Sea level • Sea temperature • Salinity • Near-surface currents • Wave height (significant) • Wave direction (main) • Wave height (significant, External src: ECMWF) • Wave direction (main, External src: ECMWF) • Wind (External source: ECMWF)</td></tr></table> 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 MME project
Relevant international projects	*eSurge project* *Multi-Model-Ensemble (MME) project*