BOOS Annual Meeting 2018

Member report

Institution	Centre for Materials and Coastal Research (HZG)
Country	Germany
Observations	In-situ observations are available via COSYNA Portal
Modelling	 Status: WAM wave model for the North Sea and Baltic Sea with spatial resolution of 2 nm is running in hindcast mode NEMO structured hydro-dynamical model for the North Sea and the Baltic Sea with spatial resolution of 2 nm is running in hindecast mode (coupled to LIM3 ice model and WAM wave model) GETM structured hydro-dynamical model for the North Sea and the Baltic Sea with spatial resolution of 3 nm is running in pre-operational mode (coupled to WAM wave model and data assimilation module with SST and HF Radar surface currents) SCHSIM unstructured hydro-dynamical Model for the North Sea and Baltic Sea with a spatial resolution between 220 m and 8.5 km is running in hindcast mode (coupled to FESIM ice model) New initiatives: Coupling wave and circulation modelling activities (WAM and NEMO) Further coupling of NEMO and WAM with the atmospheric model COSMO
Data, product and service	 HZG COSYNA-Portal (https://www.hzg.de/institutes_platforms/cosyna) GETM daily pre-operational forecasts of hydrodynamic model derived parameters (e.g., tides, currents, temperature, salinity) for the North and Baltic Sea daily SST reanalysis for the North Sea and the Baltic Sea based on GETM model forecasts and satellite observation analysis (OSTIA) delayed daily and monthly mean Chlorophyll-a (MODIS on Aqua or Terra; Skagerrak, Kattegat and Danish Straits)
Projects including BOOS partners	 CEASELESS (Copernicus Evolution and Applications with Sentinel Enhancements and Land Effluents for Shores and Seas); DHI - Institute of Water and Environment (DK) JERICO NEXT (Joint European Research Infrastructure Network for Coastal Observatory – Novel European expertise for coastal observatories); Finnish Environment Institute SYKE (FI), Finnish Meteorological Institute (FI), Swedish Meteorological and Hydrological Institute (SE); (https://www.hzg.de/science/eu_projects/h2020/earth/060466/inde x.php.en) WAVE2NEMO Coupled ocean-wave model development in

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