

BOOS Annual Meeting 2018

Member report

Institution	DMI – Danish Meteorological Insitute
Country	Denmark
Observations	<p><u>In-situ:</u></p> <ul style="list-style-type: none"> • Tidal gauge network is running as usual (providing sea level and SST data in 10 minutes interval). • Current stations Osterendern N and Vengeancegrund (Great Belt) working well. • Drogden Fyr has (Little Belt) been disfunctioning since some month ago. • DMI has received fund to upgrade its observing system <p><u>Remote sensing:</u></p> <ul style="list-style-type: none"> • Operational production of SST maps (in 1km resolution) for the Baltic Sea
Modelling	<p><u>Operational:</u></p> <ul style="list-style-type: none"> • Baroclinic 3D circulation model (HBM) using 2-way nested grids in 3-0.5 nm resolution, 5 day forecasts, 4 x daily (national storm surge prediction) • Operational wave forecast (WAM) in 5-1 km resolution day forecasts, 4 x daily • on demand: Lagrangian dispersion models (BSHdmod, oil spill drift forecast) • BAL MFC HBM-ERGOM V4 is up running <p><u>Research:</u></p> <ul style="list-style-type: none"> • Data assimilation for SST based on LETSEKF filter (PDAF-HBM offline version) • High resolution fjørd modelling for storm surge forecast (Limfjød, Roskild Fjød) • High resolution HBM modelling: impact on Inflow • River plume/tracer modelling for plastics drifting <p><u>under development:</u></p> <ul style="list-style-type: none"> • Data assimilation scheme for temperature/salinity profiles and ecosystem parameters (PDAF) • NEMO-Nordic test and optimization • HBM-WAM interaction • SPM modelling
Data, product and service	<ul style="list-style-type: none"> • DMI has adopted an open data policy from 2018 but the full implementation may make take several years. • Operational processing of some products for BOOS homepage (water level, SST, transport etc.)
Projects including BOOS partners	<ul style="list-style-type: none"> • CLAIM Project to develop innovative tools for monitoring, modelling and cleaning micro- and macro-plastics, project duration 2017.11-2021.10 BOOS partners involved: MSI • BAL MFC Phase 2: Baltic Monitoring and Forecasting Centre, duration 2018.1 – 2021.4

	<p>BOOS partners involved: BSH, FMI, MSI, SMHI</p> <ul style="list-style-type: none"> • BSCP (Baltic Sea Check Point) Project to assess marine data adequacy of fitness-for-the-purposes in 11 challenge areas in Baltic Sea, duration 2015.6-2018.6 <p>BOOS partners involved: SMHI, FMI, MSI, SMA www.emodnet-baltic.eu</p>
Other relevant projects	
Involvement in BOOS tasks	STG (Chair), BMP, BOP, MME WG, Web WG
Involvement in EuroGOOS WGs, TTs	SAWG (Chair)
Suggestions to BOOS future activities	Improvement of BOOS website Closer links with EuroGOOS, EOOS More transparency on information sharing
Additional information	