

BOOS Annual Meeting 2018

Member report

Institution	Finnish Meteorological Institute
Country	Finland
Observations	<p>Operational:</p> <ul style="list-style-type: none"> • HELCOM monitoring (T, S, O) • Argo floats in Gotland basin, Bothnian Sea and Bothnian Bay • Wave buoys in NBP, Bothnian Sea, Bothnian Bay, Gulf of Finland and Suomenlinna (coast of Helsinki) • Utö Atmospheric and Marine Research station <p>Research:</p> <p>Glider (northern Baltic Proper, Bothnian Sea) ADCP's (Bothnian Sea, Archipelago Sea) Aranda research cruise</p>
Modelling	<p>Operational forecasting systems:</p> <p>Deterministic:</p> <p>WAM – waves HBM – 3D ocean HELMI – ice dynamics OAAS/Wetehinen – sea level (2D)</p> <p>EPS:</p> <p>Hansen – ensemble sea level forecast run using ECMWF ENS</p> <p>Operational setup for NEMO-Nordic under preparation</p> <p>Modelling systems used in research:</p> <p>NEMO (Nordic 2nmi, Gulf of Bothnia 1nmi, and Gulf of Finland 0.25 nmi) WAM, and WAVEWATCH for waves (different Baltic Sea and high-resolution coastal setups) SeaTrackWeb</p>
Data, product and service	<p>BAL MFC wave forecast PU FMI open data portal</p>
Projects including BOOS partners	<ul style="list-style-type: none"> • Copernicus CMEMS BAL MFC (BOOS partners: DMI, SMHI, BSH, MSI, FMI) • SmartSea: Gulf of Bothnia as resource for sustainable growth, 2015-2020, funded by the Strategic Research Council of the Academy of Finland (BOOS partners: FMI, SYKE, SMHI) • EXOSYSTEM, 2015-2018, funded by ERA-NET RUS+ • Development of Archipelago Sea nutrient load model assembly-project funded by the Finnish Ministry of Environment (RaKi Nutrient Cycling project), 2013-2017. (BOOS partners: SYKE, FMI) • BlueAdapt: Enhancing Adaptive Capacity for Sustainable Blue Growth, 2018-2022, funded by the Strategic Research Council of the Academy of Finland. (BOOS partners: SYKE,

	<p>FMI)</p> <ul style="list-style-type: none"> • EMODNET Chemistry (BOOS partners: SMHI, LHEI, TUT, FMI, SYKE) • EMODNET data ingestion (BOOS partners: Aarhus University, MSI, SMHI, ICES) • Seadatacloud (BOOS partners: BSH, SMHI, ICES, FMI, MSI, IO PAN, SYKE) • BalticSeaCheckpoint (BOOS partners: FMI, DMI, SMHI, MSI, KU)
Other relevant projects	
Involvement in BOOS tasks	FMI participates both BOOS modeling and observation activities
Involvement in EuroGOOS WGs, TTs	Tide gauge TT and Glider TT
Suggestions to BOOS future activities	
Additional information	