

## BOOS Annual Meeting 2019

### Member report

Institution	Finnish Meteorological Institute
Country	Finland
Observations	<p>Operational:</p> <ul style="list-style-type: none"> <li>• HELCOM monitoring (T,S,O)</li> <li>• Argo floats in Gotland basin, Bothnian Sea and Bothnian Bay</li> <li>• Wave buoys in NBP, Bothnian Sea, Bothnian Bay, Gulf of Finland and Suomenlinna (coast of Helsinki)</li> <li>• Utö Atmospheric and Marine Research station</li> <li>• Ice drift buoys</li> <li>• Remote sensing ice products</li> <li>• Ice charts</li> </ul> <p>Research:            Glider (northern Baltic Proper, Bothnian Sea)            ADCP's (Bothnian Sea)</p>
Modelling	<p>Operational forecasting systems</p> <p>Deterministic:            WAM – waves            HBM – 3D ocean            HELMI – ice dynamics            OAAS/Wetenihen – sea level (2D)</p> <p>EPS:            Hansen – ensemble sea level forecast run using ECMWF ENS</p> <p>Pre-operational version of NEMO-Nordic</p> <p>Modelling systems used in research:            NEMO (Nordic 2nmi, Gulf of Bothnia 1nmi, and Gulf of Finland 0.25 nmi, Archipelago Sea 0.25 nmi)            WAM, and WAVEWATCH for waves (different Baltic Sea and high-resolution coastal setups)            OpenDrift, SeaTrackWeb</p>
Data, product and service	FMI open data portal
Projects including BOOS partners	<ul style="list-style-type: none"> <li>• Copernicus CMEMS BAL MFC (BOOS partners: DMI, SMHI, BSH, MSI, FMI)</li> <li>• Copernicus CMEMS Sea Ice TAC (BOOS partners: DMI, FMI)</li> <li>• Jerico-next, FP7, (BOOS partners: FMI, HZG, SYKE, SMHI)</li> <li>• SmartSea: Gulf of Bothnia resource for sustainable growth, 2015-2020, funded by the Strategic Research Council of the Academy of Finland (BOOS partners: FMI, SYKE, SMHI)</li> <li>• BlueAdapt: Enhancing Adaptive Capacity for Sustainable Blue Growth, 2018-2022, funded by the Strategic Research Council of the Academy of Finland. (BOOS partners: SYKE, FMI)</li> <li>• EuroArgo-RISE, H2020 (BOOS partners: FMI, IOPAN)</li> <li>• Baltic+Sealevel (BOOS partners: FMI, DMI), funded by ESA</li> <li>• Baltic+ Salinity Dynamics (BOOS partners: FMI), funded by ESA</li> </ul>

	<ul style="list-style-type: none"> <li>• EMODNET Chemistry</li> <li>• EMODNET data ingestion</li> <li>• Seadatacloud</li> </ul>
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	