

BOOS Scientific Workshop

Wednesday May 10th 09:00 – 17:00 EEST

Brainstorm auditorium, Erik Palménin aukio 1, Helsinki

Session 1 (Chair: Laura Tuomi):

09:00 - 09:10 Laura Tuomi: Welcome and practicalities

09:10 - 09:30 Joseph Nolan, EuroGOOS: News from the EuroGOOS office

09:30 - 09: 50 Vibeke Huess, DMI: Status and plans for the Baltic Sea model products under Copernicus's Marine Service

09:50 - 10:10 Jun She, DMI: Recent progresses in new EU projects on on-demand modelling, impact resolving modelling and aggregated pan-European forecast

10:10 - 10:25 Oliver Samlas: Potential of CMEMS products for assessing eutrophication status of the Baltic Sea sub-basins

10:25 - 10:40 Thomas Hammarklint, SMA: Baltic Sea Chart Datum 2000 and dynamic IHO S-100 products

Coffee break 10:40 -11:00

Session 2 (Chair: Jun She):

11:00 - 11:15 Jens Murawski, DMI: Ocean Model products for efficient monitoring of undersea cables

11:15 -11:30 Vilnis Frisfeld, DMI: Preparing bathymetries of varying resolution for user oriented coastal applications

11:30 - 11:45 Veera Haapaniemi, FMI: Wave-ocean coupling: Effects on surface layer dynamics in the Baltic Sea

11:45 - 12:00 Enriko Siht, TalTech: Modeling the transport and accumulation of microplastics in the Gulf of Finland

12:00 - 12:15 Johannes Pein, Hereon: Estimation of residence time and identification of hotspots of eutrophication in the Odra estuary

12:15 - 12:30 Discussion

Lunch break 12:30 - 13:30

Session 3 (Chair: Patrick Gorringe):

13:30 - 13:45 Louise Biddle, VOTO: Making the Baltic Sea accessible; VOTO's ocean observatories, project support, data and scientific applications (*including our rapid response to the Nordstream leaks*)

13:45 - 14:00 Laura Tuomi, FMI : Baltic Sea Argo floats

14:00 - 14:15 Thorger Bruning: Satellite Remote Sensing at BSH

14:15 - 14:30 Mirosław Darecki, IOPAN: Recent progress and development of satellite services for coastal zones in the Baltic Sea

14:30 - 14:45 Sebastian Grayek, Hereon: Consistent dataset of coastal sea level: The synergy between tidal gauge data and numerical modelling

14:45 - 15:00 Lars Axell, SMHI: Sea ice assimilation using the Nordic Variational (NOVA) data assimilation system and different ensemble approaches

Coffee break 15:00 - 15:30

Session 4 (Chair: Thorger Brüning)

15:30 - 15:45 Antti Westerlund, FMI: A data-driven approach to rapidly estimate seasonal thermocline depth in the Northern Baltic Sea

15:45 - 16:00 Kai Bellinghausen, Hereon: Short-term prediction of extreme sea-level at the Baltic Sea coast by Random Forests

16:00 - 16:15 Jian Su, DMI: Predict the monthly mean sea level with different machine learning method

16:15-16:30 Janus Larsen, AU. New developments in the marine modelling system FlexSem since last time and some examples of use

16:30 - 17:00 Discussion