2nd Baltic Earth Workshop on Multiple Drivers for Earth system changes in the Baltic Sea region

4-5 December 2024, Helsinki, Finland



(details and presentation titles may change)



Day 1 (Afternoon, 4 December 2024)

12:00-12:05 Introduction

Markus Meier and Marcus Reckermann

Invited Presentations (15+5)

First Block: Assessment of Drivers and Impacts

Chair: Kari Hyttiäinen

12:05-12:25 Land-based food production: Land use, eutrophication and impacts

Bärbel Müller Karulis

12:25-12:45 Non-indigenous species and biodiversity in the Baltic Sea

Maiju Lehtiniemi

12:45-13:05 Coastal management options in the Baltic Sea, with particular reference to

coastal infrastructure

Kevin Parnell

13:05-13:25 Maritime transport and safety

Jukka-Pekka Jalkanen

13:25-13:45 Renewable energy production: Wind power generation

Xiaoli Guo Larsén

13:45-14:05 The HELCOM Holistic Assessments (HOLAS)

Owen Rowe

Second Block: Assessment of Management options (7+3)

Chair: Kai Myrberg

14:05-14:25 Environmental management options and policy instruments

Kari Hyytiäinen

14:25-14:45	Break
14:45-15:05	Ecosystem-Based Management and Baltic Health Index Thorsten Blenckner
15:05-15:25	ICES Integrated Environmental Assessment of the Baltic Sea Riikka Puntila
15:25-15:45	Combining numbers with expert knowledge: piecing together a holistic understanding of marine social-ecological systems Susa Niiranen
15:45-16:05	Panel discussion of presentations
Third Block:	Short presentations (7+3) Chair: Susa Niiranen
16:05-16:15	Control of pathogenic vibrios via reduction of algal blooms in the Baltic Sea David Riedinger and Matthias Labrenz
16:15-16:25	Comparison of Baltic Sea mesozooplankton and terrestrial mountain birch moth biomasses in relation to climatic factors Heta E.J. Rousi, Julia J.J. Fält-Nardmann, Betty Marjamäki, Ilmari Juutilainen, Tommi Andersson, Juhani Itämies, Pekka Niemelä and Jari Hänninen
16:25-16:35	Baltic Sea coastline change under climate and human impacts – classification and quantification Wenyan Zhang, Peter Arlinghaus and David Pogorzelski
16:35-16:45	Impact of bottom trawling on benthic ecosystem and sedimentary carbon storage Wenyan Zhang and Lucas Porz
16:45-16:55	Impacts of Offshore Wind Farms on the Baltic Sea Andrew Twelves, Aleksi Nummelin and Pedro Bourdin
16:55-17:05	Investigating the Impact of Offshore Wind Farms on Ocean Circulation and Turbulence in the North Sea and Baltic Sea Sonaljit Mukherjee, Vilnis Frisfelds, Jens Murawski and Jun She
17:05-17:15	Marine heatwaves in the Gulf of Bothnia from historical measurements to future projections V. Haapaniemi, S-M. Siiriä, A. Nummelin and J. Haapala
17:15-17:25	The combined impact of eutrophication, climate warming and marine structures on the water properties in the Baltic Sea Taavi Liblik

17:25-17:35	Understanding the Complex Interplay of Climate and Oceanographic Drivers Shaping Long-Period Waves and Coastal Resilience in the Baltic Sea Region Loreta Kelpšaitė-Rimkienė
17:35-17:45	Interaction of climate change with other drivers Markus Meier
17:45-17:55	Socially optimal agriculture and forestry for improved water quality in the Baltic Sea Jenni Miettinen and Sanna Lötjönen
17:55-18:15	Panel discussion of presentations
18:15	Open Discussion and Wrap-up of Day 1 Outlook on Day 2
18:30	End of Day 1

Day 2 (Morning, 5 December 2024)

9	:00	Recap Day 1 and Open Discussion
1	0:00	Establishment of Breakout Groups Discussions within Breakout Groups
1	1:00 – 11:30	Break
1	2:00	Reporting by Group Rapporteurs and the way forward
1	2:45	Wrap-Up and Farewell
1	3:00	End of Workshop