



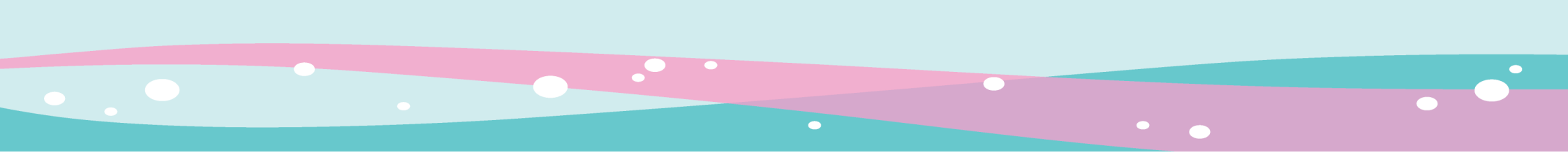
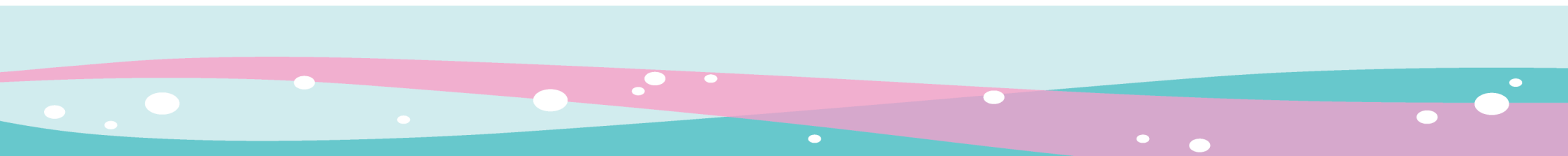
21-25 Aug
Helsinki
Finland

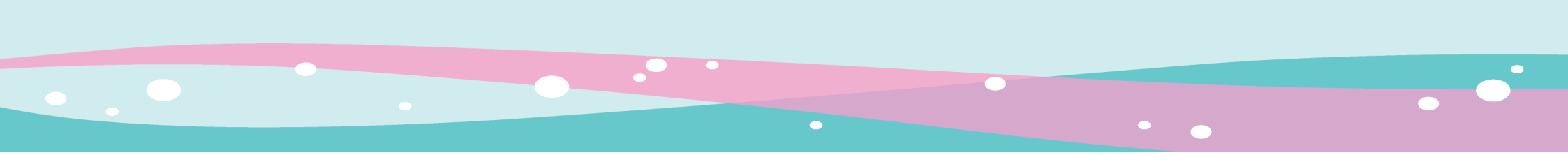
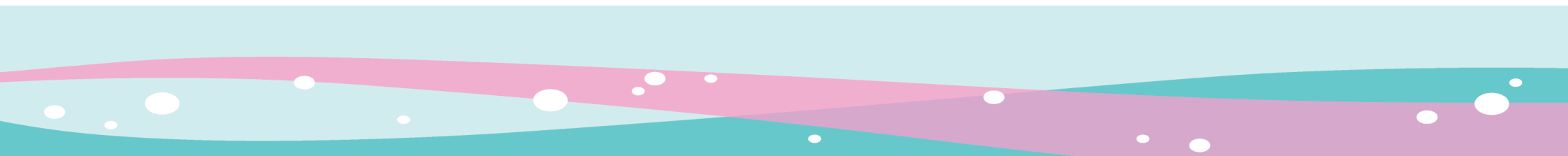
Baltic Sea Science Congress 2023

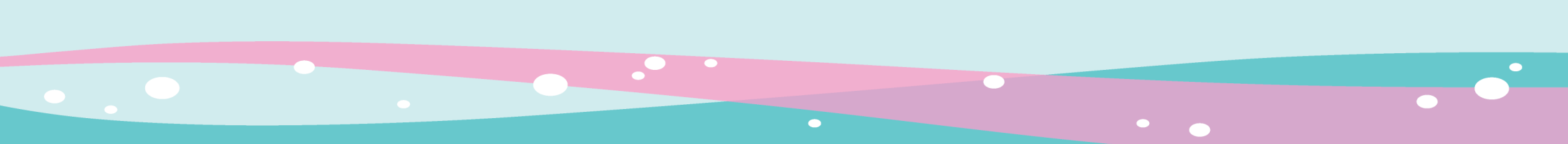
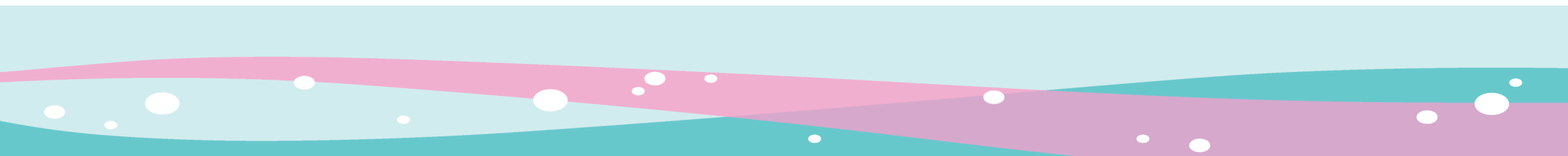
The science we need for the Baltic Sea we want

BSSC2023: List of posters

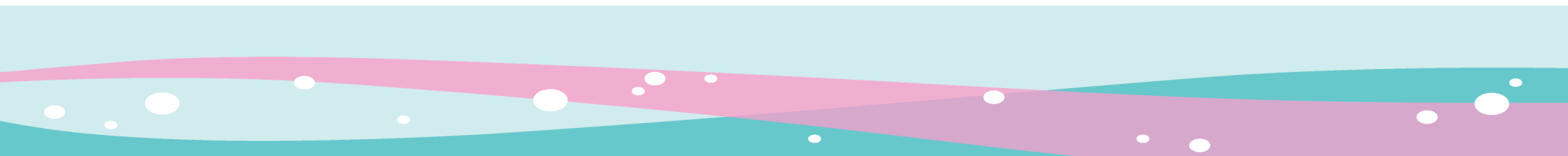
- 1 Air pollution in the seaside urban areas
Mrs. Aiste Andriule* (Lithuania) - Klaipėda University, Marine Research Institute
- 2 Salinity and temperature effects on microphytobenthic and planktonic communities and their carbon cycling capacity using a mesocosm approach
Dr. Jonna Engström-Öst* (Finland) - Novia University of Applied Sciences
- 3 Photoacoustics and confocal microscopy – based novel indicators applied to complete Baltic sea pollution quantification
Ms. Paulina Janowicz* (Poland) - Institute of Experimental Physics, Faculty of Mathematics, Physics and Informatics, University of Gdańsk
- 4 The role of sediment resuspension on near-bottom mercury dynamics
Dr. Agnieszka Jędruch* (Poland) - Institute of Oceanology, Polish Academy of Sciences; Faculty of Oceanography and Geography, University of Gdańsk
- 5 Underwater pipeline leakage impacts on environmental pollution: A case study of Nord Stream incidents in the Baltic Sea
Dr. Agnieszka Jędruch* (Poland) - Institute of Oceanology, Polish Academy of Sciences; Faculty of Oceanography and Geography, University of Gdańsk
- 6 The seasonal tourists effect on micropollutants delivery and effluents quality in popular coastal resorts of the Baltic Sea
Mrs. Agne Jucyte-Cicine* (Lithuania) - Marine Research Institute, Klaipeda University
- 7 Mercury in benthic organisms from polar and temperate marine ecosystems
Ms. Ewa Korejwo* (Poland) - Institute of Oceanology, Polish Academy of Sciences

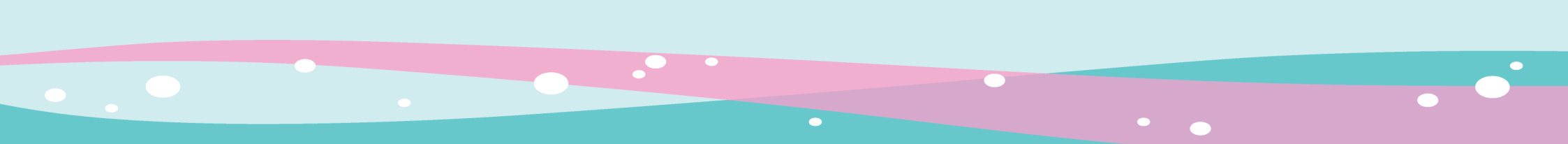
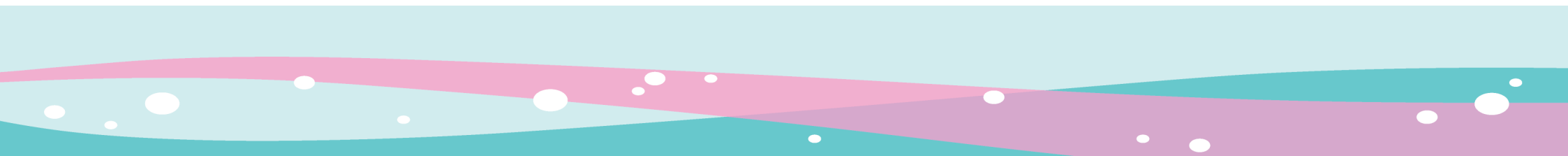
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- 8 EMODnet Geology – towards new standards on harmonizing marine geological data
Dr. Henry Vallius* (Finland) - Geological Survey of Finland
 - 9 Quantification of sediment budget in extensively developed urban areas: a case study of Tallinn Bay, the Baltic Sea
Dr. Maris Eelsalu* (Estonia) - Department of Cybernetics, School of Science, Tallinn University of Technology
 - 10 Regulation of Marine Plankton Respiration: A test of models
Prof. Johan Wikner* (Sweden) - Umeå University
 - 11 Variability of stratification and currents at the submesoscale detected from CTD and current profiles in the central Gulf of Finland
Dr. Madis-Jaak Lilover* (Estonia) - Department of Marine Systems, Tallinn University of Technology
 - 12 PERMAGOV: Innovative governance, environmental observations, and digital solutions in support of the European Green Deal
Mr. Pavel Kogut (United Kingdom) - 21c Consultancy
 - 13 Benthic nitrous oxide cycling in a changing coastal sea
Dr. Dana Hellemann* (Finland) - Finnish Environment Institute SYKE
 - 14 Microbial remineralization processes during the post-spring bloom excess phosphate conditions in the northern Baltic Sea
Ms. Mari Vanharanta* (Finland) - Tvärminne Zoological Station, University of Helsinki
 - 15 Comparative assessment of phthalates esters distribution in the coastal lagoons of the Baltic Sea: a compositional profile, spatial patterns and environmental control
Ms. Elise Lorre* (Lithuania) - Marine Research Institute, Klaipeda University
 - 16 A FUNCTIONALLY NOVEL INVASIVE PREDATOR ERADICATES HERBIVORES OF A LITTORAL COMMUNITY
Prof. Veijo Jormalainen* (Finland) - Department of Biology, University of Turku
 - 17 Statistical methods for ecosystem-based management of marine systems
Prof. Anders Grimvall* (Sweden) - Swedish Institute for the Marine Environment
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- 18 The effects of water temperature on salt-induced flocculation of DOM in humic-rich river water
Ms. Eveliina Piispanen* (Finland) - University of Helsinki, Faculty of Biological and Environmental Sciences
 - 19 QUALITY AND QUANTITY OF THE NUTRIENT LOADING FROM FINLAND TO THE BALTIC SEA
Mrs. Marie Korppoo* (Finland) - Finnish Environment Institute
 - 20 New sediment data for enhancing the estimate of the internal phosphorus loading in the Finnish Archipelago Sea
Dr. Irma Puttonen* (Finland) - Environmental and Marine Biology, Åbo Akademi University
 - 21 Modelling seabed substrates of the Finnish Archipelago Sea
Dr. Anu Kaskela* (Finland) - Geological Survey of Finland
 - 22 Are shallow sheltered bays important sinks for carbon and nutrients?
Ms. Betty Gubri* (Finland) - Environmental and Marine Biology, Åbo Akademi University
 - 23 Long-term observations of the air-sea CO₂ exchange at Utö
Mr. Martti Honkanen* (Finland) - Finnish Meteorological Institute
 - 24 Dissolved and Particulate Organic Matter variability in the Southern Baltic Sea (Gulf of Gdansk) based on 7-year time series (2016-2022)
Dr. Katarzyna Kozirowska-Makuch* (Poland) - Institute of Oceanology PAS
 - 25 Habitat specific and whole ecosystem basal production in shallow coastal ecosystems influenced by riverine inflow.
Dr. Jenny Ask (Sweden) - Umeå Marine Sciences Center, Umeå University
 - 26 Assessing the Genesis and Magnetic Mineral Enrichments in Shallow Water Iron-Manganese Concretions from the Baltic Sea
Dr. Joonas Wasiljeff* (Finland) - Geological Survey of Finland (GTK)
 - 27 Benthos under pressure - The future of the north-east Baltic Sea biodiversity
Dr. Katriina Juva* (Finland) - Finnish Environment Institute
 - 28 Heterocyst-forming cyanobacteria growth dependency on light and phosphate concentration
Ms. Ineta Liepina-Leimane* (Latvia) - Latvian Institute of Aquatic Ecology
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- 29 Carbon sequestration and greenhouse gas fluxes of Swedish territorial waters
Dr. Erik Gustafsson* (Sweden) - Baltic Nest Institute, Baltic Sea Centre, Stockholm University
- 30 On modelling of summer heatwaves in coastal area: Tvärminne, Gulf of Finland.
Mr. Alexander Sokolov* (Sweden) - Baltic Sea Centre, Stockholm University
- 31 THE INFLUENCE OF ARTIFICIAL NOURISHMENT ON UNDERWATER PROFILE
Ms. Ilona Sakurova* (Lithuania) - Marine Research Institute at Klaipėda University
- 32 The variability of the empirical probability distribution of wave set-up heights examined along the shoreline of Tallinn, Estonia
Dr. Katri Pindsoo* (Estonia) - Department of Cybernetics, School of Science, Tallinn University of Technology
- 33 Greater variability in food supply increases the diversity of coastal benthic communities
Mrs. Marta Szczepanek* (Poland) - Institute of Oceanology PAS
- 34 Assessing Ecosystem Services of Macrophyte Habitats in Coastal Shallow Areas
Ms. Esther Robbe* (Germany) - Leibniz Institute for Baltic Sea Research (IOW)
- 35 Gypsum-induced flocculation of dissolved organic matter in rivers: Potential implications of agricultural gypsum addition on riverine carbon cycling
Dr. Samu Elovaara* (Finland) - University of Helsinki, Faculty of Biological and Environmental Sciences
- 36 Biosphere-atmosphere interactions at the coast of Baltic Sea- Establishment of Permanent Atmospheric measurement site
Dr. Roseline C. Thakur* (Finland) - Institute for Atmospheric and Earth System Research (INAR), University of Helsinki
- 37 Benthic communities' activities and sediment stabilization cause a shift in remineralization of sedimentary organic matter
Dr. Marc Silberberger (Poland) - Institute of Oceanology PAS
- 38 Heat waves and their effect on the state of vegetation in the coastal settlements of the Baltic Sea (Lithuania coast)
Prof. Inga Dailidienė* (Lithuania) - Klaipėda University, Marine Research Institute
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- 39 EMODnet Ingestion and safe keeping of marine data
Mr. Mihail-Constantin Carausu* (Denmark) - Aarhus University, Department of EcoScience, Applied Marine Ecology and Modelling
 - 40 Winners vs Losers: Integrating phenotypic and transcriptomic responses of microalgae to salinity change
Ms. Sonja Repetti* (Finland) - University of Helsinki, Faculty of Biological and Environmental Sciences
 - 41 Envisioning the Future Role of Offshore Wind in Finland's Energy Mix
Mr. Jamie Jenkins* (Finland) - University of Helsinki
 - 42 Incorporating new bathymetric data into operational modelling of the Baltic Sea
Dr. Andrew Twelves* (Finland) - Finnish Meteorological Institute
 - 43 Model based products for off-shore marine wind farm design - case study with Destination Earth climate data
Mr. Jonni Lehtiranta* (Finland) - Finnish Meteorological Institute
 - 44 BALFI - Baltic Sea landfast ice extent and thickness downstream service
Dr. Marko Mäkynen* (Finland) - Finnish Meteorological Institute
 - 45 Wave-ocean model coupling: Effects on the surface layer dynamics in the Baltic Sea
Ms. Veera Haapaniemi* (Finland) - Finnish Meteorological Institute
 - 46 Effects of island isolation on the benthic macroinvertebrate biodiversity of Åland
Mr. Jean-François Blanc* (Finland) - Åbo Akademi University
 - 47 Modeling the pathways of microplastics in the Gulf of Finland, Baltic Sea
Mr. Arun Mishra* (Estonia) - Department of Marine Systems, Tallinn University of Technology
 - 48 Geotechnical properties determination of soft coastal sediments by FF-CPT in the northern Gulf of Finland
Mrs. Maarit Saresma* (Finland) - Geological Survey of Finland (GTK)
 - 49 Adding value to offshore wind power areas
Mr. Nikon Vidjajev* (Estonia) - Department of Marine Systems, Tallinn University of Technology
 - 50 Statistics of individual wave events over the Baltic Sea
Ms. Hedi Kanarik* (Finland) - Finnish Meteorological Institute
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- 51 Geostrophic and Ageostrophic Components of Sea Surface Currents in the Baltic Sea
Mr. Amirhossein Barzandeh* (Estonia) - Department of Marine Systems, Tallinn University of Technology
 - 52 Modelling the Baltic Sea with coupled ROMS and CICE models (work in progress)
Mr. Maciej Muzyka* (Poland) - Institute of Oceanology Polish Academy of Sciences
 - 53 High-resolution Baltic Sea Wave climatology obtained from two modelled wind data sets: a comparison.
Dr. Andrea Giudici* (Estonia) - Department of Cybernetics, School of Science, Tallinn University of Technology
 - 54 Wave climate and its variability in the Gulf of Riga
Mrs. Fatemeh Najafzadeh* (Estonia) - Department of Cybernetics, School of Science, Tallinn University of Technology
 - 55 Responsiveness to surface-groundwater interactions by spawning salmonids: site selection patterns and control mechanisms in *Oncorhynchus*, *Salmo* and *Salvelinus* genera.
Mr. Rudy Benetti* (Lithuania) - Klaipėda University, Marine Research Institute
 - 56 Aboveground biomass estimations of *Zostera marina* seagrass by remote sensing reflectance
Ms. Aminah Kaharuddin* (Germany) - University of Rostock
 - 57 Assessing the Impacts of Climate Change and Regulatory Regimes on Lake Water Levels in Sweden Using Satellite and In-situ Data
Mr. Saeid Aminjafari* (Sweden) - Stockholm University
 - 58 Analysis of longshore sediment transport for the Gulf of Riga using high-resolution wave model results
Mr. Mikolaj Jankowski* (Estonia) - Department of Cybernetics, School of Science, Tallinn University of Technology
 - 59 The impact of Cyanobacterial Blooms on the emission of Volatile Organic Compounds from the Baltic Sea
Ms. Sneha Aggarwal* (Sweden) - Department of Environmental Science, Stockholm University
 - 60 Experiments on ice failure modes and ice loads on offshore wind turbines
Ms. Alice Petry* (Finland) - Aalto University
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- 61 Offshore wind for ice-covered seas: Approach based on experiments and modeling
Prof. Arttu Polojärvi* (Finland) - Aalto University
 - 62 Effects of salinity on the growth of selected peatland macrophytes in the Baltic Sea
Ms. Amabelle Go* (Germany) - University of Rostock
 - 63 Review of the seabed surface feature information - EMODnet Geology
Dr. Susanna Kihlman* (Finland) - Geological Survey of Finland
 - 64 Energetics of the Baltic Sea circulation and the role of upwelling fronts
Dr. Aleksi Nummelin* (Finland) - Finnish Meteorological Institute
 - 65 Eco-physiological responses of marine biota to warming waters - focus on benthic-pelagic coupling
Mrs. Andriana Koutsandrea* (Finland) - Åbo Akademi University
 - 66 Persistent hot spots of CO₂ and CH₄ in coastal nearshore environments
Dr. Matias Scheinin* (Finland) - Pro Litore
 - 67 Monitoring acidification in the Baltic Sea: applications and perspectives
Dr. Jannine Marquez Lencina Avila* (Germany) - Leibniz Institute for Baltic Sea Research (IOW)
 - 68 Microplastic pollution dynamics and relation to sediment transport on the southeastern sandy beaches of the Baltic Sea and the Gulf of Riga
Dr. Maija Viska* (Latvia) - Latvian Institute of Aquatic Ecology
 - 69 High variability and increasing trends of total alkalinity and dissolved inorganic carbon in the Vistula River
Prof. Karol Kulinski* (Poland) - Institute of Oceanology PAS
 - 70 Seasonal timing of phytoplankton and zooplankton across a salinity gradient
Dr. Jörg Dutz* (Germany) - Leibniz Institute for Baltic Sea Research Warnemünde
 - 71 Process-based sensitivity analysis of a Lagrangian particle tracking model for microplastics
Mr. Enriko Siht* (Estonia) - Department of Marine Systems, Tallinn University of Technology
 - 72 SeaMoreEco - Seamless monitoring, restoration and conservation in the northern Gulf of Bothnia
Mrs. Mary Agrér (Sweden) - County Administrative Board of Norrbotten
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73 Landfast sea ice in the Bothnian Bay (Baltic Sea) as a temporary storage compartment for greenhouse gases

Dr. Nicolas-Xavier Geilfus* (Finland) - Tvärminne Zoological Station, University of Helsinki

74 Leveraging Digital Twin opportunities for key sea-ice impact sectors in the Nordic and Baltic context

Ms. Timea Biro* (Finland) - CSC-IT-Center for Science

