

2nd Baltic Earth Conference

Helsingør, Denmark

11 - 15 June 2018



The Baltic Sea Region in Transition



Second Announcement and Call for Papers

Background

Baltic Earth strives to achieve an improved Earth System understanding of the Baltic Sea region as the basis for science-based management in the face of climatic, environmental and human impact in the region. Baltic Earth brings together a broad international research community around core scientific issues identified as fundamental to informing societal efforts to achieve sustainability in the region. Baltic Earth targets the atmosphere, land and marine environment of the Baltic Sea, its drainage basin and nearby areas with relevance for the Baltic Sea region.

The Conference

The conference will cover all topics of Baltic Earth, in particular highlight the Baltic Earth Grand Challenges, as defined in the Baltic Earth Science Plan. The grand topic of the conference „The Baltic Sea Region in Transition“ refers to transition processes in the Baltic Sea and its catchment basin, as well as in the regional climatic and socio-economic system. In addition to this, we invite contributions which are related to processes in the transition area between the Baltic and the North Sea regions, e.g. oceanographic in- and outflow events and associated consequences for Baltic Sea biogeochemistry, ecology and human uses, specific conditions of the Belts and Sounds area including human pressures like eutrophication and shipping, regional sea level rise as well as similarities and differences in the BACC and NOSCCA climate change assessments.

Topics

Baltic Earth focuses on specific interdisciplinary research challenges formulated by the Baltic Earth Science Steering Group. Additional topics are treated by dedicated Working Groups. Conference topics are based on these challenges:

- **Salinity dynamics** - Observation and modelling of saltwater inflows and other processes like advection, diffusion and dilution of saltwater, relating to the salinity conditions in the Baltic Sea.
- **Land-Sea-Atmosphere biogeochemical feedbacks** - Investigations on the marine and terrestrial carbon, nitrogen and phosphorus cycles and pathways towards an understanding of primary production mechanisms and organic matter transformations in the Baltic Sea; biogeochemical causes and effects of eutrophication and oxygen limitations, trace gases dynamics.
- **Natural hazards and high impact events** - Observations, analysis and modelling of high impact events in the Baltic Sea region; frequency and strength of storm surges and waves, flooding due to extreme precipitation events or droughts; prediction systems, probabilistic estimates and attribution analyses.
- **Sea level dynamics, coastal morphology and erosion** - Variability and change of sea level, waves, currents, seiches, variations in wind and sea level pressure, river runoff, effects of sea ice, inflows, thermosteric effects, land uplift/subsidence and sediment accumulation/coastal changes. Projections of future sea level rise, observed and projected long-term trends and multi-decadal variations.
- **Regional variability of water and energy exchanges** - Observation, analysis and modelling of the regional water cycle; precipitation, evaporation, river runoff; hydrological and atmospheric exchange processes; analysis of the natural variability of energy and water components; cloud-aerosol-feedback mechanisms, cloud and atmospheric boundary layer processes; hind- and forecast short- and long-term water and energy exchanges of the past and future.
- **Multiple drivers of regional Earth system changes** - Interactions between anthropogenic forcings like eutrophication, pollution, fisheries, hydrographic engineering, agricultural and forestry practices and land cover change with natural forcings; analysis and application of coupled Earth system models capturing interactions between atmospheric, marine and land compartments/processes, as well as responses to anthropogenic forcings; regional detection and attribution efforts.
- **Regional climate system modelling** - Recent progress in the understanding of regional climate variability with special focus on coupled effects between sea, atmosphere, land and anthroposphere.
- **Other regional seas** - We welcome contributions related to any of the above outlined topics, from similar sea and coastal regions around the world, e.g. the North Sea, the Mediterranean, the Black Sea, or the Bo Hai and Huang Hai areas, and others.

Contributions related to any of these scientific fields are welcome. In addition, invited and contributed papers will be presented along with parallel poster sessions. The conference is also intended as discussion forum for scientists, managers and other stakeholders. Conference language is English.

There will be a dedicated side event for students and young scientists. For more infos, refer to the website.

2nd Baltic Earth Conference in Helsingør

Call for Papers

Contributions in accordance with the preliminary conference topics as outlined above, both oral or poster, are welcome. Extended abstracts in English, maximum of two pages, including figures, tables or diagrams, are invited to be submitted by e-mail to the International Baltic Earth Secretariat.

Abstracts must be submitted by e-mail to balticearth@hzg.de by 18 February 2018. Please indicate to which topic you would like to have your presentation allocated. An electronic abstract template is available for download at www.baltic.earth/helsingor2018. Please use this template, other formats will not be accepted.

Abstract Deadline: 18 February 2018



The Scientific Conference Committee will review the submitted papers, decide on allocation to topic, oral or poster presentation and establish the conference programme. Authors will be notified by mid March 2018, and the programme is expected to be online by end of March 2018. An abstract volume will be distributed at the conference.

Authors will be invited to submit a full paper based on their presentation for a special conference issue in an international scientific journal to be published after the conference.

Organizers and supporting institutions

Scientific Conference Committee

- Juris Aigars, Latvia
- Franz Berger, Germany
- Inga Dailidienė, Lithuania
- Jari Haapala, Finland
- Karol Kulinski, Poland
- Andreas Lehmann, Germany
- Markus Meier, Germany (Chair)
- Kai Myrberg, Finland
- Anders Omstedt, Sweden
- Irina Danilovich, Belarus
- Piia Post, Estonia
- Marcus Reckermann, Germany
- Gregor Rehder, Germany
- Anna Rutgersson, Sweden (Vice-Chair)
- Corinna Schrum, Germany
- Benjamin Smith, Sweden
- Martin Stendel, Denmark
- Ralf Weisse, Germany
- Sergey Zhuravlev, Russia

Organizing Committee

- Martin Stendel, Denmark
- Hans-Jörg Isemer, Germany
- Silke Köppen, Germany
- Markus Meier, Sweden
- Marcus Reckermann, Germany
- Anna Rutgersson, Sweden



Danmarks
Meteorologiske
Institut

Danish
Meteorological Institute



Uppsala University

UPPSALA
UNIVERSITET



Swedish Meteorological and Hydrological Institute

Leibniz Institute for Baltic Sea Research
Warnemünde



Centre for Materials and Coastal Research

Helmholtz-Zentrum Geesthacht

International Baltic Earth Secretariat



For an updated list of sponsors, see the conference website

Time Table

Abstract Deadline.....	18 February 2018
Notification to Authors.....	11 March 2018
Programme online.....	26 March 2018
Registration Deadline.....	22 April 2018
Conference.....	11-15 June 2018

2nd Baltic Earth Conference in Helsingør

Venue and Accomodation

Konventum Konferencecenter
Gl. Hellebækvej 70
DK-3000 Helsingør
Tel. +45 49 28 09 00
booking@konventum.dk



The Konventum Conference Centre is beautifully situated in a magnificent scenic area and a splendid view over the Øresund. It is a fully equipped conference centre with affiliated accomodations and is acknowledged for its elegant and inspiring architecture and the numerous works of art in the corridors, in the rooms and in the many small alcoves and oases.

Helsingør, as it is known today, was founded in the 1420s by the Danish King Eric of Pomerania. He established the Sound Dues in 1429, meaning all foreign ships passing through the strait had to anchor in Helsingør, get their cargo taxed and pay a toll to the Danish Crown. This at times constituted up to two-thirds of Denmark's state income, and it also made Helsingør a wealthy town. With the income of the Sound Dues, Eric of Pomerania built the castle Krogen at the narrowest point of the sound. The castle was expanded in the 1580s and renamed Kronborg and is today an UNESCO World Heritage Site. William Shakespeare's play Hamlet is performed annually on site in the courtyard of the castle.

Registration and Fees

Conference participants must register online via the conference website.

Registration Deadline: 22 April 2018

The conference fee is 350€ (400€ after 22 April) for full delegates. Students pay 150 € (200 € after 22 April). The conference fee covers the conference venue, the abstract volume, the Ice Breaker, morning and afternoon coffee and refreshments, daily lunches and the conference dinner. Accompanying persons will be charged for participation at the conference dinner. Partial support may be available, depending on available funding. Details on support and conference fee payment are available at the conference website.



Fee payment is due at time of registration, latest on 22 April.

Travel Information

Between Helsingør and Copenhagen, trains operate every 20 minutes. The Scandlines car ferry line between Helsingør and Helsingborg on the Swedish side is the busiest in the world with more than 70 departures in each direction every day. The E47 Motorway towards Copenhagen begins just outside the city limits. The town and surrounding areas also has a network of local and regional buses and trains.



Social Events

Monday, 11 June.....Ice Breaker
Tuesday, 12 June.....Excursion
Thursday, 14 June.....Conference Dinner