



## 3<sup>rd</sup> Baltic Earth Conference Online

### Virtual Poster Session

Poster are available online through  
<https://baltic.earth/hel2020/intern>

**Posters are available for viewing Wednesday 27 May through Thursday 4 June.  
Access information is provided to all registered participants by e-mail.**

Contributions are sorted alphabetically within topics.



**Topic 1:**  
**Salinity dynamics in the Baltic Sea**

#### **Baltic+ Salinity Dynamics: Towards a new view on the Baltic Sea surface salinity**

Pekka Alenius, L. Tuomi, P. Roiha, V. González-Gambau, E. Olmedo, C. González-Haro, A. Turiel, J. Martínez, C. Gabarró, M. Arias, R. Catany, D. Fernández, R. Sabia

**The role of dissolved oxygen and salinity on the reproductive conditions of the cod in the Southern Baltic Sea**

Daniel Rak, A. Bulczak, W. Walczowski, A. Przyborska

**Assessment of the effect of the Slupsk Sill on transformation of the Baltic inflow water based on microstructure measurements**

Viktar Zhurbas, V. Paka, M. Golenko, A. Korzh, A. Kondrashov



**Topic 2:  
Land-Sea biogeochemical linkages**

**Modern trophic state indexes of Baltic waters derived from structural signatures of biofilm colonies covering submerged solid substrata**

Katarzyna Boniewicz-Szmyt, M. Grzegorzczak, S.J. Pogorzelski, P. Rochowski

**Short-term vs. long-term effects of rewetting coastal peatlands - are they fueling eutrophication and climate change with regard to nitrogen?**

Anne Breznikar, JW. Dippner, M. Voss

**Bioecological evaluation of the quality of the surface runoff from urban territories (case study of the city of Brest)**

Ina Bulskaya, A. Volchak, A. Kolbas

**Nitrogen Fixation in a coastal peatland and adjacent sediments**

Tina Liesirova, T. Aarenstrup Launbjerg, L. Riemann, M. Voss

**Photosynthesis, respiration and growth responses of Baltic Sea benthic diatoms in relation to sea-land exchange processes**

Lara Prella, A. Graiff, S. Gründling-Pfaff, V. Sommer, K. Kuriyama, U. Karsten

**Predicting submarine groundwater discharge from coastal peatlands of northeast Germany using HYDRUS-2D**

Erwin Don Racasa, B. Lennartz, M. Janssen

**The impact of submarine groundwater discharge on element fluxes into a temperate shallow coastal bay**

Catia M. E von Ahn, M. Böttcher, P. Feldens, A-K. Jenner, I. Schmiedinger, J. Scholten



**Topic 3:  
Natural hazards and extreme events**

**Impacts of river discharge and ice phenomena on the extent of storm surges in the Odra River mouth area (the southern Baltic Sea)**

Halina Kowalewska-Kalkowska

**Agrothermal changes in 1961–2018 in Lithuania**

Viktorija Mačiulytė, G. Stankūnavičius

**Study of the influence of zonal and azonal factors on the maximum floods runoff in the Vistula basin (within Ukraine)**

Maksym Martyniuk, V. Ovcharuk

**Predicting extreme dry spell risk based on probability distribution in coastal region of Tunisia**

Majid Mathlouthi, F. Lebdi

**The assessment of natural hazards as a part of integrated coastal zone management: the case of Haapsalu Bay, Estonia**

Valeriya Ovcharuk, M. Moniushko, S. Das

**Maximal rivers runoff during floods different origin on the coastal zone of Northwestern part of the Black Sea**

Valeriya Ovcharuk, M. Moniushko, E. Gopchenko, N. Kichuk

**Projected distribution of the drought in Ukraine until 2050 under RCP4.5 and RCP6.0 climate scenarios**

Inna Semenova, A. Polevoy



**Topic 4:**

**Sea level dynamics in the Baltic Sea**

**Mean sea level changes in the southwestern Baltic Sea over the last 190 years**

Jessica Kell, S. Dangendorf, U. Gräwe, H. Steffen, J. Patzke, J. Jensen

**High water level variability in the North Sea and Baltic Sea and objective weather types**

Jens Möller, P. Löwe

**The impact of dredging works performed during construction of an offshore Wind Farm upon the adjacent areas of the Baltic Sea**

Anna Przyborska, J. Jakacki

**ESA Baltic+ SEAL: Using the Baltic Sea as a test-bed for developing advanced, regionalised sea-level products**

Laura Rautiainen, L. Tuomi, J. Särkkä, M. Johansson, FL. Müller, M. Passaro, A. Abulaitijiang, OB. Andersen, D. Dettmering, JL. Høyer, J. Oelsmann, IM. Ringgaard, E. Rinne, R. Scarrott, C. Schwatke, F. Seitz, K. Skovgaard Madsen, A. Ambrozio, M. Restano, J. Benveniste

**Overview of Remote Sensing Methods for Run Up Tracing After High Energy Events on Sandy Beaches, Baltic Sea Coast, Lithuania**

Kristina Viršilaitė, D. Pupienis

**Applicability assessment of multi-date medium resolution satellite remote sensing data for detection and interpretation of coastline fluctuations: case study Russian part of the eastern Gulf of Finland**

Eugenia Volynets, A. Volynets, E. Panidi

**Characteristics of seasonal changes of the Baltic Sea extreme water levels**

Tomasz Wolski, B. Wiśniewski



**Topic 5:**

**Regional variability of water and energy exchanges**

**Linking weather types to tense dewatering situations of the Kiel Canal**

Corinna Jensen, J. Möller, P. Löwe, N. Schade

**Impact of climate change on the water management of the Kiel Canal – A case study**

Nils H. Schade, A-D. Ebner von Eschenbach, J. Moeller, V. Neemann

**Small-scale spatial variability of hydro-physical properties of differently degraded peat**

Miaorun Wang, H. Liu, B. Lennartz



**Topic 6:**

**Multiple drivers of regional Earth system changes**

**Decision support tools for the management of eastern Baltic Sea coasts**

Mojtaba Barzehkar, K. Parnell, T. Soomere

**Assessment of the state of pollution of the Ukrainian part of the Black Sea**

Maryna Moniushko, V. Ovcharuk

**Modeling the distribution of microplastics coming with river runoff in the eastern part of the Gulf of Finland**

Vladimir A. Ryabchenko, S. D. Martyanov, A. V. Isaev, G. Martin

**Coastal dunes ecosystems change according to normalized difference vegetation index (the case study of Curonian Lagoon)**

Rasa Šimanauskienė, R. Linkevičienė, J. Taminskas, R. Povilanskas

**Atmospheric transport and seasonal variability of trace elements and polycyclic aromatic hydrocarbons in fine-aerosol fraction at the coastal site in Gdynia, Poland**

Patrycja Siudek, I. Waszak

**Inlet polynyas of coastal lagoons of the Baltic sea and other reservoirs of the temperate climate of the northern hemisphere**

Ekaterina Zhelezova



**Topic 7:**  
**Regional climate system modeling**

**Objective analysis of climatological fronts in the Atlantic-European sector**

Katsiaryna Sumak, I. Semenova



**Topic 8:**  
**Climate Change and its impacts**

**Reanalysis based assessment of tropospheric thickness trends in Baltic Sea region**

Alina Lerner, A. Männik



**Topic 9:**  
**New climate observation systems**

**The Sea Baltic Poland: citizen observations of surface water properties**

Tomasz Kijewski, A. Palacz, B. Szymczycha, E. Borkowska, T. Zieliński