

Alongshore sediment transport analysis for a semi-enclosed basin: a case study of the Gulf of Riga, the Baltic Sea
Soomere, Tarmo; Jankowski, Mikolaj Zbigniew; Eelsalu, Maris; Parnell, Kevin Ellis; Viška, Maija Ocean Science 2025 / p. 619-641 <https://doi.org/10.5194/os-21-619-2025>

Application of the HIDRA2 deep-learning model for sea level forecasting along the Estonian coast of the Baltic Sea
Barzandeh, Amirhossein; Licer, Matjaz; Rus, Marko; Kristan, Matej; Maljutenko, Ilja; Elken, Juri; Lagemaa, Priidik; Uiboupin, Rivo Ocean Science 2025 / p. 1315-1327 <https://doi.org/10.5194/os-21-1315-2025>

Baltic Sea freshwater content

Raudsepp, Urmas; Maljutenko, Ilja; Barzandeh, Amirhossein; Uiboupin, Rivo; Lagemaa, Priidik State of the Planet 2023 / 14 p <https://doi.org/10.5194/sp-1-osr7-7-2023>

Baltic Sea surface temperature analysis 2022: a study of marine heatwaves and overall high seasonal temperatures
Lindenthal, Anja; Hinrichs, Claudia; Jandt-Scheelke, Simon; Kruschke, Tim; Lagemaa, Priidik; van der Lee, Eefke M.; Maljutenko, Ilja; Morrison, Helen e.; Panteleit, T. R.; Raudsepp, Urmas State of the Planet 2024 / 16 p <https://doi.org/10.5194/sp-4-osr8-16-2024>

Bayesian statistical ionospheric tomography improved by incorporating ionosonde measurements

Norberg, Johannes; Virtanen, Ilkka I.; Roininen, Lassi; Vierinen, Juha; Orispää, Mikko; Kauristie, Kirsti; Lehtinen, Markku S. Atmospheric measurement techniques 2016 / p. 1859-1869 : ill <https://doi.org/10.5194/amt-9-1859-2016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The challenge of comparing pollen-based quantitative vegetation reconstructions with outputs from vegetation models - a European perspective

Dallmeyer, Anne; Poska, Anneli; Marquer, Laurent; Seim, Andrea; Gaillard, Marie-José Climate of the Past 2023 / p. 1531 - 1557 <https://doi.org/10.5194/cp-19-1531-2023> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Climate change is rapidly deteriorating the climatic signal in Svalbard glaciers

Spolaor, Andrea; Scoto, Federico; Larose, Catherine; Barbaro, Elena; Burgay, Francois; Bjorkman, Mats P.; Cappelletti, David; Dallo, Federico; de Blasi, Fabrizio; Divine, Dmitry V.; Dreossi, Giuliano; Gabrieli, Jacopo; Isaksson, Elisabeth; Kohler, Jack; Martma, Tõnu; Schmidt, Louise S.; Schuler, Thomas V.; Stenni, Barbara; Turetta, Clara; Luks, Bartłomiej; Casado, Mathieu; Gallet, Jean-Charles The cryosphere 2024 / p. 307–320 : ill <https://doi.org/10.5194/tc-18-307-2024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Developing European operational oceanography for Blue Growth, climate change adaptation and mitigation, and ecosystem-based management

She, Jun; Allen, Icarus; Buch, Erik; Lips, Urmas Ocean science 2016 / p. 953-976 : ill <https://doi.org/10.5194/os-12-953-2016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Did the Bronze Age deforestation of Europe affect its climate? A regional climate model study using pollen-based land cover reconstructions

Strandberg, Gustav; Chen, Jie; Fyfe, Ralph; Kjellström, Erik; Lindström, Johan; Poska, Anneli; Zhang, Qiong; Gaillard, Marie-José Climate of the Past 2023 / p. 1507 - 1530 <https://doi.org/10.5194/cp-19-1507-2023> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Do contemporary (1980-2015) emissions determine the elemental carbon deposition trend at Høltedahlfonna glacier, Svalbard?

Ruppel, Meri M.; Soares, Joana; Gallet, Jean-Charles; Isaksson, Elisabeth; Martma, Tõnu Atmospheric chemistry and physics 2017 / p. 12779-12795 : ill <https://doi.org/10.5194/acp-17-12779-2017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Estuarine circulation reversals and related rapid changes in winter near-Bottom oxygen conditions in the Gulf of Finland, Baltic Sea

Liblik, Taavi; Laanemets, Jaan; Raudsepp, Urmas; Elken, Jüri; Suhhova, Irina Ocean Science 2013 / p. 917 - 930 <https://doi.org/10.5194/os-9-917-2013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

European pollen-based REVEALS land-cover reconstructions for the Holocene : methodology, mapping and potentials

Githumbi, Esther; Fyfe, Ralph; Gaillard, Marie-José; Trondman, Anna-Kari; Mazier, Florenze; Nielsen, Anne Birgitte; Poska, Anneli; Sugita, Shinya; Veski, Siim Earth system science data 2022 / p. 1581–1619 <https://doi.org/10.5194/essd-14-1581-2022> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Forcing-dependent submesoscale variability and subduction in a coastal sea area (Gulf of Finland, Baltic Sea)

Salm, Kai; Väli, Germa; Liblik, Taavi; Lips, Urmas Ocean science 2025 / p. 2555-2577 <https://doi.org/10.5194/os-21-2555-2025> [Article at Scopus](#)

How do simple wave models perform compared with sophisticated models and measurements in the eastern Baltic Sea?
Männikus, Rain; Soomere, Tarmo; Suursaar, Ülo EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023 / EGU23-

Kinematic parameters of internal waves of the second mode in the South China Sea

Kurkina, Oxana; Talipova, Tatyana; **Soomere, Tarmo**; Giniyatullin, Ayrat; Kurkin, Andrey Nonlinear processes in geophysics 2017 / p. 645-660 : ill <https://doi.org/10.5194/npg-24-645-2017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A large-scale high-resolution numerical model for sea-ice fragmentation dynamics

Åström, Jan; Robertsen, Fredrik; Haapala, Jari; Polojärvi, Arttu; **Uiboupin, Rivo**; **Maljutenko, Ilja** The Cryosphere 2024 / p. 2429–2442 <https://doi.org/10.5194/tc-18-2429-2024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructure measurements and estimates of entrainment in the Denmark Strait overflow plume

Paka, Vadim T.; **Zhubas, Victor**; Rudels, Bert; Quädfasel, Detlef R.; Korzh, Andrey O.; Delisi, Donald P. Ocean Science 2013 / p. 1003 - 1014 <https://doi.org/10.5194/os-9-1003-2013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mineral Exploration of the Senegalese Grande Cote heavy minerals placer: QEMSCAN characterisation of Fe-Ti oxides for ore modelling

Kanzari, Aisha; **Graul, Sophie Jane Marie-Pascale Huguette**; Delaporte, Arthur; **Hints, Rutt**; Blancher, Simon Mineral Exploration of the Senegalese Grande Cote heavy minerals placer: QEMSCAN characterisation of Fe-Ti oxides for ore modelling 2024 / 2 p. <https://doi.org/10.5194/egusphere-egu24-19227>

Multi-sensor in situ observations to resolve the sub-mesoscale features in the stratified Gulf of Finland, Baltic Sea

Lips, Urmas; **Kikas, Villu**; **Liblik, Taavi**; **Lips, Inga** Ocean science 2016 / p. 715-732 : ill <https://doi.org/10.5194/os-12-715-2016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Preface : New challenges for tsunami science : understanding tsunami processes to improve mitigation and enhance early warning

Hebert, Helene; **Didenkulova, Irina**; Hermann, M. Fritz; Papadopoulos, Gerassimos A. Natural hazards and earth system sciences 2016 / p. 1855-1857 <https://doi.org/10.5194/nhess-16-1855-2016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

River bulge evolution and dynamics in a non-tidal sea - Daugava River plume in the Gulf of Riga, Baltic Sea

Soosaar, Edith; **Maljutenko, Ilja**; **Uiboupin, Rivo**; **Skudra, Maris**; **Raudsepp, Urmas** Ocean science 2016 / p. 417-432 : ill <https://doi.org/10.5194/os-12-417-2016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Rolling vs. seasonal PMF : real-world multi-site and synthetic dataset comparison

Via, Marta; Chen, Gang; Canonaco, Francesco; Daellenbach, K. R.; Chazeau, Benjamin; Chebaicheb, Hasna; Jiang, J.; **Keernik, Hannes**; Lin, C.; Marchand, Nicolas Atmospheric measurement techniques 2022 / p. 5479-5495 <https://doi.org/10.5194/amt-15-5479-2022> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Satellite altimetry reveals spatial patterns of variations in the Baltic Sea wave climate

Kudryavtseva, Nadezhda; **Soomere, Tarmo** Earth System Dynamics 2017 / p. 697-706 : ill <https://doi.org/10.5194/esd-2016-68> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sea ice in the Baltic Sea during 1993/94–2020/21 ice seasons from satellite observations and model reanalysis

Singh, Shakti; **Maljutenko, Ilja**; **Uiboupin, Rivo** The cryosphere 2025 / p. 4741-4758 <https://doi.org/10.5194/tc-19-4741-2025> [Article at Scopus](#) [Article at WOS](#)

Sea level dynamics and coastal erosion in the Baltic Sea region

Weisse, Ralf; Dailidienė, Inga; Hünicke, Birgit; Kahma, Kimmo; Madsen, Kristine; Omstedt, Anders; **Parnell, Kevin Ellis**; Schöne, Tilo; **Soomere, Tarmo**; **Zhang, Wenyan**; **Zorita, Eduardo** Earth System Dynamics 2021 / p. 871-898 <https://doi.org/10.5194/esd-12-871-2021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spring onset and seasonality patterns during the Late Glacial period in the eastern Baltic region

Amon, Leeli; Wagner-Cremer, Friederike; **Vassiljev, Jüri**; **Veski, Siim** Climate of the Past 2022 / p. 2143-2153 : ill., map <https://doi.org/10.5194/cp-18-2143-2022> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Summer upwelling at the Boknis Eck time-series station (1982 to 2012) – A combined glider and wind data analysis

Karstensen, Johannes; **Liblik, Taavi**; Fischer, J.; Bumke, K.; Krahmann, G. Biogeosciences 2014 / p. 3603-3617 : ill <https://doi.org/10.5194/bg-11-3603-2014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Surface mass balance and water stable isotopes derived from firn cores on three ice rises, Fimbul Ice Shelf, Antarctica

Vega, Carmen Paulina; Schlosser, Elisabeth; Divine, Dmitry V.; **Martma, Tõnu** The cryosphere 2016 / p. 2763-2777 : ill <https://doi.org/10.5194/tc-10-2763-2016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A synthetic ice core approach to estimate ion relocation in an ice field site experiencing periodical melt : a case study on

Lomonosovfonna, Svalbard

Vega, Carmen Paulina; Pohjola, Veijo A.; Beaudon, Emilie; **Martma, Tõnu** The cryosphere 2016 / p. 961-976 : ill <https://doi.org/10.5194/tc-10-961-2016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The Baltic Sea Model Intercomparison Project (BMIP) - a platform for model development, evaluation, and uncertainty assessment

Gröger, Matthias; Placke, Manja; Meier, H. E. Markus; Börgel, Florian; Brunnabend, Sandra-Esther; Dutheil, Cyril; Gräwe, Ulf; Hieronymus, Magnus; Neumann, Thomas; **Väli, Germo** Geoscientific model development 2022 / p. 8613-8638 <https://doi.org/10.5194/gmd-15-8613-2022> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Topology and spatial-pressure-distribution reconstruction of an englacial channel

Piho, Laura; Alexander, Andreas; **Kruusmaa, Maarja** The cryosphere 2022 / p. 3669–3683 <https://doi.org/10.5194/tc-16-3669-2022> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A typical wave wake from high-speed vessels : its group structure and run-up

Didenkulova, Irina; **Rodin, Artem** Nonlinear processes in geophysics 2013 / p. 179-188 : ill <https://doi.org/10.5194/npg-20-179-2013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Untangling the waves: decomposing extreme sea levels in a non-tidal basin, the Baltic Sea

Lorenz, Marvin; **Viigand, Katri**; Gräwe, Ulf Natural Hazards and Earth System Sciences 2025 / p. 1439-1458 <https://doi.org/10.5194/nhess-25-1439-2025>

Upwelling characteristics in the Gulf of Finland (Baltic Sea) as revealed by Ferrybox measurements in 2007-2013

Kikas, Villu; **Lips, Urmas** Ocean science 2016 / p. 843-859 : ill <https://doi.org/10.5194/os-12-843-2016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)