

Baltic Sea's eastern coast may face more frequent flooding in future

news.err.ee 2025 <https://news.err.ee/1609649489/baltic-sea-s-eastern-coast-may-face-more-frequent-flooding-in-future>

Coastal vulnerability of the eastern Baltic Sea with respect to extreme minima of sea level

Viigand, Katri; Eelsalu, Maris; Soomere, Tarmo New challenges for Baltic Sea Earth System research : conference proceedings 2024 / p. 78-79 https://baltic.earth/imperia/md/assets/baltic_earth/baltic_earth/baltic_earth/5bec_proceedings.pdf

Evaluating coastal vulnerability by temporal and spatial variation of parameters of the GEV distribution along the Baltic Sea coast

Viigand, Katri; Eelsalu, Maris; Soomere, Tarmo Journal of coastal research 2024 / p. 996-1000 <https://doi.org/10.2112/JCR-SI113-195.1>

Inherent non-stationarity in the GEV distribution for extreme sea levels : Implications for coastal vulnerability in the Baltic Sea

Viigand, Katri; Eelsalu, Maris; Soomere, Tarmo Ocean engineering 2025 / art. 122681 <https://doi.org/10.1016/j.oceaneng.2025.122681>

Linking changes in the directional distribution of moderate and strong winds with changes in wave properties in the eastern Baltic proper

Soomere, Tarmo; Eelsalu, Maris; Viigand, Katri; Giudici, Andrea Journal of coastal research 2024 / p. 190-194 <https://doi.org/10.2112/JCR-SI113-038.1>

Läänemere idarannik satub tulevikus sagedamini kõrgvete meelevalda

novaator.err.ee 2025 <https://novaator.err.ee/1609649417/laanemere-idarannik-satub-tulevikus-sagedamini-korgvete-meelevalda>

Quantification of longshore sediment transport and compartments in urban areas : a case study of shores of Tallinn, the Baltic Sea

Eelsalu, Maris; Viigand, Katri Regional studies in marine science 2023 / art. 103199 <https://doi.org/10.1016/j.rsma.2023.103199>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Quantifying exposedness of the eastern Baltic Sea shores with respect to extremely high and low water levels

Viigand, Katri; Eelsalu, Maris; Soomere, Tarmo Estuarine, coastal and shelf science 2025 / art. 109267 <https://doi.org/10.1016/j.ecss.2025.109267>

Systematic analysis of alongshore sediment transport patterns in varying sea level conditions for evaluating stability of the coastal areas in the microtidal Baltic Sea

Eelsalu, Maris; Viigand, Katri; Soomere, Tarmo; Parnell, Kevin Ellis Journal of coastal research 2024 / p. 53-57 <https://doi.org/10.2112/JCR-SI113-011.1>

Temporal and spatial changes of joint influence of waves and water levels in the Eastern Baltic Sea

Männikus, Rain; Viigand, Katri; Soomere, Tarmo Journal of coastal research 2024 / p. 986-990 <https://doi.org/10.2112/JCR-SI113-193.1>

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>