

Abstract on the dynamics of the river bulge using satellite imagery and numerical model, case study of Daugava river bulge

Soosaar, Edith; Uiboupin, Rivo; Skudra, Maris; Maljutenko, Ilja; Raudsepp, Urmas 10th Baltic Sea Science Congress : Science and innovation for future of the Baltic and the European regional seas : 15-19 June, 2015, Riga, Latvia : abstract book 2015 / p. 61 http://www.bssc2015.lv/wp-content/uploads/2015/07/10th_BSSC_AbstractBook_final.pdf

Assessing the potential for sea-based macroalgae cultivation and its application for nutrient removal in the Baltic Sea

Kotta, Jonne; Raudsepp, Urmas; Szava-Kovats, Robert; Szava-Kovats, Robert; Aps, Robert; Armoskaite, Aurelija; Barda, Ieva; Bergström, Per; Futter, Martyn; Maljutenko, Ilja Science of the total environment 2022 / art. 156230 ; 14 p. : ill <https://doi.org/10.1016/j.scitotenv.2022.156230> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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>

BOOS/HIROMB-based marine forecasts in Estonia : problems, experiences and challenges [Electronic resource]

Elken, Jüri; Kõuts, Tarmo; Raudsepp, Urmas; Laanemets, Jaan; Lagemaa, Priidik Proceedings of the US/EU Baltic International Symposium "Integrated Ocean Observation Systems for Managing Global & Regional Ecosystems Using Marine Research, Monitoring & Technologies" : Klaipeda, May 23-25, 2006 2006 / [22] p. [CD-ROM]

Cod reproductive volume potential in the Baltic Sea

Raudsepp, Urmas; Maljutenko, Ilja; Kõuts, Mariliis Journal of operational oceanography 2019 / p. s26-s29 : ill., map <https://doi.org/10.1080/1755876X.2019.1633075>

Combined analysis of Cryosat-2/SMOS sea icethickness data with model reanalysis fields over the Baltic Sea

Raudsepp, Urmas; Uiboupin, Rivo; Maljutenko, Ilja; Hendricks, Stefan; Ricker, Robert; Liu, Ye; Iovino, Doroteaciro; Peterson, K. Andrew; Zuo, Hao; Lavergne, Thomas; Aaboe, Signe; Raj, Roshin P. Journal of operational oceanography 2019 / p. s73-s79 : ill., map <https://doi.org/10.1080/1755876X.2019.1633075>

Copernicus Marine Service Ocean State Report

Schuckmann, Karina von; Le Traon, Pierre-Yves; **Kõuts, Mariliis; Lagemaa, Priidik; Maljutenko, Ilja; Raudsepp, Urmas** Journal of operational oceanography 2018 / S1-S142 : ill <https://doi.org/10.1080/1755876X.2018.1489208>

Copernicus Marine Service Ocean State Report. Issue 3

Aaboe, Signe; Aguiar, Eva; **Kõuts, Mariliis; Lagemaa, Priidik; Maljutenko, Ilja; Raudsepp, Urmas; Uiboupin, Rivo** Journal of Operational Oceanography 2019 / S1-S123 : ill <https://doi.org/10.1080/1755876X.2019.1633075> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Copernicus Marine Service Ocean State Report. Issue 4

von Schuckmann, Karina; Le Traon, Pierre-Yves; Aaboe, Signe; **Laanemäe, Kaari; Maljutenko, Ilja; Raudsepp, Urmas; Uiboupin, Rivo** Journal of Operational Oceanography 2020 / p. S1 - S172 <https://doi.org/10.1080/1755876X.2020.1785097> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Copernicus Marine Service Ocean State Report, Issue 5

Aaboe, Signe; **Alari, Victor; Alexander, Brittany E.; Kõuts, Mariliis; Lagemaa, Priidik; Maljutenko, Ilja; Männik, Andres; Raudsepp, Urmas; Rikka, Sander; Uiboupin, Rivo** Journal of operational oceanography 2021 / p. 1-185 <https://doi.org/10.1080/1755876X.2021.1946240> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Defining the extent of coastal zone for ecosystem-based management

Lessin, Gennadi; Raudsepp, Urmas US/EU-Baltic International Symposium : Ocean observations, ecosystem-based management & forecasting : May 27-29, 2008, Tallinn, Estonia : book of abstracts 2008 / p. 84

Depth induced breaking of wind generated surface gravity waves in Estonian coastal waters

Alari, Victor; Raudsepp, Urmas Boreal environment research 2010 / p. 295-300 : ill <https://helda.helsinki.fi/server/api/core/bitstreams/2829538a-c166-4a29-a83c-83d4a37abb8c/content>

Detection of oil spills on SAR images and forecast of the slicks trajectory, case study

Uiboupin, Rivo; Raudsepp, Urmas; Sipelgas, Liis US/EU-Baltic International Symposium : Ocean observations, ecosystem-based management & forecasting : May 27-29, 2008, Tallinn, Estonia : book of abstracts 2008 / p. 161

District cooling network planning. A case study of Tallinn

Volkova, Anna; Hlebnikov, Aleksandr; Ledvanov, Aleksandr; Kirs, Tanel; Raudsepp, Urmas; Krupenski, Igor; Latõšov, Eduard International Journal of Sustainable Energy Planning and Management 2022 / p. 63-78 : ill <https://doi.org/10.54337/ijsepm.7011> [Journal metrics at Scopus](#) [Article at Scopus](#)

Eesti ja Rootsi teadlased uurivad õlilaigu liikumist : [õlireostuse uurimist Vaindloo saare läheduses kommenteerib TTÜ

Meresüsteemide instituudi teadur Urmas Raudsepp]

Ammas, Anneli; **Raudsepp, Urmas** Eesti Päevaleht 2006 / 14. märts, lk. 4 <https://epl.delfi.ee/artikkel/51033960/eesti-ja-rootsi-teadlased-uurivad-oliiaigu-liikumist>

Eesti kliima ja keskkonnaseisundi võimalike muutuste hindamine atmosfääri-, mere- ja jõgede äravoolu dünaamiliste mudelite tulemuste põhjal (EstKliima)

Raudsepp, Urmas; Jaagus, Jaak; **Alari, Victor**; **Laanemets, Jaan**; **Maljutenko, Ilja**; **Reihan, Alvina**; **Sepp, Mait** Keskkonnakaitse ja -tehnoloogia teadus- ja arendustegevuse programmi teaberaamat 2010-2015 2015 / lk. 88-94 : ill https://www.ester.ee/record=b4520841*est

Effects of nutrient management scenarios on marine eutrophication indicators : a Pan-European, Multi-Model Assessment in Support of the Marine Strategy Framework Directive

Friedland, Rene; Macias, Diego; Cossarini, Gianpero; Daewel, Ute; Estournel, Claude; Garcia-Goriz, Elisa; Grizzetti, Bruna; Gregoire, Marilaure; Gustafsson, Bo; **Maljutenko, Ilja**; Pärn, Ove; Pätsch, Johannes; **Raudsepp, Urmas** Frontiers in marine science 2021 / 22 p. : map <https://doi.org/10.3389/fmars.2021.596126> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Extreme waves and low sea level during the storm in the Gulf of Bothnia, Baltic Sea

Raudsepp, Urmas; Männik, Aarne; **Maljutenko, Ilja**; **Lagemaa, Priidik**; **Rikka, Sander**; **Alari, Victor**; **Uiboupin, Rivo** Journal of operational oceanography 2021 / p. s162-s173 : ill., map <https://doi.org/10.1080/1755876X.2021.1946240>

Flow, waves and water exchange in the Suur Strait, the Gulf of Riga in 2008

Raudsepp, Urmas; **Laanemets, Jaan**; Haran, Getli; **Alari, Victor**; Pavelson, Juss; **Kõuts, Tarmo** Oceanologia 2011 / p. 35-56 : ill

4.2 Geographical and seasonal coverage of sea ice in the Baltic Sea

Raudsepp, Urmas; **Uiboupin, Rivo**; **Laanemäe, Kaari**; **Maljutenko, Ilja** Journal of operational oceanography 2020 / p. S1-S172, 11 p <https://doi.org/10.1080/1755876X.2020.1785097>

Framework for the environmental impact assessment of operational shipping

Moldanova, Jana; Hassellöv, Ida-Maja; **Maljutenko, Ilja**; **Raudsepp, Urmas** Ambio 2022 / p. 754-769 <https://doi.org/10.1007/s13280-021-01597-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Füüsikaline okeanograafia. Läänemeri

Elken, Jüri; **Lips, Urmas**; **Keevallik, Sirje**; **Lips, Inga**; **Raudsepp, Urmas** 2018 https://www.ester.ee/record=b5158569*est

Linking atmospheric, terrestrial and aquatic environments : Regime shifts in the Estonian climate over the past 50 years

Kotta, Jonne; Herkül, Kristjan; Jaagus, Jaak; Kaasik, Ants; **Raudsepp, Urmas**; **Alari, Victor**; **Laanemets, Jaan**; **Maljutenko, Ilja**; **Männik, Aarne**; **Reihan, Alvina** PLoS ONE 2018 / e0209568, 20 p. : ill <https://doi.org/10.1371/journal.pone.0209568> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Longitudinal transformation of estuarine transport controlled to mixing controlled nutrient, oxygen and detritus dynamics in the Gulf of Finland

Kõuts, Tarmo; **Raudsepp, Urmas**; **Maljutenko, Ilja** The 11th Baltic Sea Science Congress "Living Along Gradients : Past, Present, Future" : June 12-16, 2017 : abstracts 2017 / p. 200 https://www.io-warnemuende.de/tl_files/conference/bssc2017/bssc2017-abstract-book.pdf

Long-term mean, interannual and seasonal circulation in the Gulf of Finland - The wide salt wedge estuary or gulf type ROFI

Maljutenko, Ilja; **Raudsepp, Urmas** Journal of marine systems 2019 / p. 1-19 : ill <https://doi.org/10.1016/j.jmarsys.2019.03.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Long-term model study of nutrient and detritus dynamics in the Baltic Sea

Kõuts, Mariliis; **Raudsepp, Urmas**; **Maljutenko, Ilja**; Treimann, Meri Liis 10th Baltic Sea Science Congress : Science and innovation for future of the Baltic and the European regional seas : 15-19 June, 2015, Riga, Latvia : abstract book 2015 / p. 32 http://www.bssc2015.lv/wp-content/uploads/2015/07/10th_BSSC_AbstractBook_final.pdf

A method for assessment of the general circulation model quality using the K-means clustering algorithm : a case study with GETM v2.5

Raudsepp, Urmas; **Maljutenko, Ilja** Geoscientific model development 2022 / p. 535-551 <https://doi.org/10.5194/gmd-15-535-2022> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal methods at WOS](#) [Article at WOS](#)

Model for leisure boat activities and emissions - implementation for the Baltic Sea

Johansson, Lasse; Ytreberg, Erik; Jalkanen, Jukka-Pekka; Fridell, Erik; Eriksson, K. Martin; Lagerström, Maria; **Maljutenko, Ilja**; **Raudsepp, Urmas**; Fischer, Vivian; Roth, Eva Ocean science 2020 / p. 1143-1163 <https://doi.org/10.5194/os-16-1143-2020> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modelling of discharges from Baltic Sea shipping

Jalkanen, Jukka-Pekka; Johansson, Lasse; Wilewska-Bien, Magda; Granhag, Lena; Ytreberg, Erik; Eriksson, K. Martin; Yngsell, Daniel; Hassellöv, Ida-Maja; Magnusson, Kerstin; **Raudsepp, Urmass; Maljutenko, Ilja**; Winnes, Hulda; Moldanova, Jana Ocean Science 2021 / p. 699 - 728 <https://doi.org/10.5194/os-17-699-2021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modelling spatial dispersion of contaminants from shipping lanes in the Baltic Sea

Maljutenko, Ilja; Hassellöv, Ida-Maja; **Kõuts, Mariliis; Kasemets, Mari-Liis; Raudsepp, Urmass** Marine pollution bulletin 2021 / art. 112985 <https://doi.org/10.1016/j.marpolbul.2021.112985> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Monitoring of harbor dredging using remote sensing and AC-Spectra data

Sipelgas, Liis; Raudsepp, Urmass BSSC 2009 : [7th Baltic Sea Science Congress 2009] : August 17-21, 2009, Tallinn, Estonia : abstract book 2009 / p. 86

Nitrate, ammonium and phosphate pools in the Baltic Sea

Kõuts, Mariliis; Maljutenko, Ilja; Liu, Ye; Raudsepp, Urmass Journal of operational oceanography 2021 / p. s37-s48 : ill., map <https://doi.org/10.1080/1755876X.2021.1946240>

On the validation of SWAN, a third generation spectral wave model, in Estonian coastal waters

Alari, Victor; Raudsepp, Urmass; Kõuts, Tarmo; Vahter, Kaimo BSSC 2009 : [7th Baltic Sea Science Congress 2009] : August 17-21, 2009, Tallinn, Estonia : abstract book 2009 / p. 183

Optical and physical properties of coastal water and their relations to radar (ASAR) data - a case study of Muuga Bay, Gulf of Finland

Sipelgas, Liis; Raudsepp, Urmass; Uiboupin, Rivo Estonian journal of ecology 2008 / 3, p. 185-197 : ill

Optical and physical properties of coastal water and their relations to radar (ASAR) data - case study of Muuga Bay in the Gulf of Finland

Sipelgas, Liis; Raudsepp, Urmass; Uiboupin, Rivo US/EU-Baltic International Symposium : Ocean observations, ecosystem-based management & forecasting : May 27-29, 2008, Tallinn, Estonia : book of abstracts 2008 / p. 146

Phytoplankton blooms in the Baltic Sea

Raudsepp, Urmass; She, Jun; Brando, Vittorio E.; Santoleri, Rosalia; Sammartino, Michela; **Kõuts, Mariliis; Uiboupin, Rivo; Maljutenko, Ilja** Journal of operational oceanography 2019 / p. s21-s26 : ill., map <https://doi.org/10.1080/1755876X.2019.1633075>

Portable coastal operational oceanographic system to monitor the harbor-related environmental impacts in Estonia [Electronic resource]

Elken, Jüri; Kõuts, Tarmo; Raudsepp, Urmass; Sipelgas, Liis Proceedings of the USA-Baltic International Symposium "Advances in Marine Environmental Research, Monitoring and Technologies" : Klaipeda, 15-17 June, 2004 / [6] p. [CD-ROM] <https://ieeexplore.ieee.org/document/7296771>

Projected changes in wave conditions in the Baltic Sea by the end of 21st century and the corresponding shoreline changes

Suursaar, Ülo; Tõnisson, Hannes; **Alari, Victor; Raudsepp, Urmass**; Rästas, Henri; Anderson, Agnes Journal of coastal research 2016 / p. 1012-1016 <https://doi.org/10.2112/SI75-203.1>

Projected changes of the significant wave height in the Baltic Sea by the end of the 21th century

Alari, Victor; Rästas, Henri; Raudsepp, Urmass 10th Baltic Sea Science Congress : Science and innovation for future of the Baltic and the European regional seas : 15-19 June, 2015, Riga, Latvia : abstract book 2015 / p. 58 http://www.bssc2015.lv/wp-content/uploads/2015/07/10th_BSSC_AbstractBook_final.pdf

Recent regime of persistent hypoxia in the Baltic Sea

Kõuts, Mariliis; Maljutenko, Ilja; Elken, Jüri; Liu, Ye; Raudsepp, Urmass Environmental Research Communications 2021 / 1-17 p <https://doi.org/10.1088/2515-7620/ac0cc4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Record high heat content and low ice extent in the Baltic Sea during winter 2019/20

Raudsepp, Urmass; Maljutenko, Ilja; Haapala, Jari; **Männik, Aarne; Verjovkina, Svetlana; Uiboupin, Rivo**; von Schuckmann, Karina; Mayer, Michael Journal of operational oceanography 2022 / p. 175-185 : ill. <https://doi.org/10.1080/1755876X.2022.2095169>

Regime shifts in the natural environment in the northern Baltic Sea region in late 1980s

Jaagus, Jaak; **Alari, Victor**; Arula, Timo; Järvet, Arvo; Kont, Are; Kotta, Jonne; Kull, Ain; Laanemets, Jaan; Männik, Aarne; Ojaveer, Henn; **Raudsepp, Urmass; Reihan, Alvina**; Rõõm, Rein; Sepp, Mait; Suursaar, Ülo; Tamm, Ottar; Tamm, Toomas; Tõnisson, Hannes 10th Baltic Sea Science Congress : Science and innovation for future of the Baltic and the European regional seas : 15-19 June, 2015, Riga, Latvia : abstract book 2015 / p. 64 http://www.bssc2015.lv/wp-content/uploads/2015/07/10th_BSSC_AbstractBook_final.pdf

Renewed circulation scheme of the Baltic Sea – based on the 40-year simulation with GETM

Maljutenko, Ilja; Raudsepp, Urmas 10th Baltic Sea Science Congress : Science and innovation for future of the Baltic and the European regional seas : 15-19 June, 2015, Riga, Latvia : abstract book 2015 / p. 71 http://www.bssc2015.lv/wp-content/uploads/2015/07/10th_BSSC_AbstractBook_final.pdf

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>

Sea level, sea surface temperature and SWHextreme percentiles : combined analysis from model results and in situ observations

Alvarez-Fanjul, Enrique; Collar, Alvaro de Pascual; Gomez, Begona Perez; De Alfonso, Marta; Sotillo, Marcos Garcia; Staneva, Joanna; Clementi, Emanuela; **Raudsepp, Urmas; Lagema, Priidik; Maljutenko, Ilja** Journal of operational oceanography 2019 / p. s31-s42 : ill., map <https://doi.org/10.1080/1755876X.2019.1633075>

Shipborne nutrient dynamics and impact on the eutrophication in the Baltic Sea

Raudsepp, Urmas; Maljutenko, Ilja; Kõuts, Mariliis; Granthag, Lena Science of the total environment 2019 / p. 189-207 : ill <https://doi.org/10.1016/j.scitotenv.2019.03.264> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Simulation of wave damping near coast due to offshore wind farms

Alari, Victor; Raudsepp, Urmas Journal of coastal research 2012 / p. 143-148 : ill <https://bioone.org/journals/Journal-of-Coastal-Research-JCR/volume-28/issue-1/JCOASTRES-D-10-00054.1/Simulation-of-Wave-Damping-Near-Coast-due-to-Offshore-Wind/10.2112/JCOASTRES-D-10-00054.1.short>

Spatial distribution of hydrographic and biochemical variables in a small coastal bay : explanation using systems approach

Lessin, Gennadi; Raudsepp, Urmas; Passenko, Jelena; Altoja, Kristi; Martin, Georg; Sipelgas, Liis BSSC 2009 : [7th Baltic Sea Science Congress 2009] : August 17-21, 2009, Tallinn, Estonia : abstract book 2009 / p. 45

Sub-regional observing and forecast system for the NE Baltic: needs and first results

Elken, Jüri; Kõuts, Tarmo; Lips, Urmas; Raudsepp, Urmas; Lagema, Priidik US/EU-Baltic International Symposium : Ocean observations, ecosystem-based management & forecasting : May 27-29, 2008, Tallinn, Estonia : book of abstracts 2008 / p. 38

Technology for early detection and drift forecast of the oil spill

Raudsepp, Urmas US/EU-Baltic International Symposium : Ocean observations, ecosystem-based management & forecasting : May 27-29, 2008, Tallinn, Estonia : book of abstracts 2008 / p. 129

The Copernicus Marine Environment Monitoring Service Ocean State Report

Schuckmann, Karina von; Le Traon, Pierre-Yves; Alvarez-Fanjul, Enrique; **Raudsepp, Urmas** Journal of operational oceanography 2016 / p. 235-320 : ill <http://dx.doi.org/10.1080/1755876X.2016.1273446>

Validation of hydrostatic and non-hydrostatic versions of the hydrodynamical model MIKE 3 applied for the Baltic Sea

Passenko, Jelena; Lessin, Gennadi; Erichsen, Anders Christian; Raudsepp, Urmas Estonian journal of engineering 2008 / 3, p. 255-270 : ill

Validation of three-dimensional hydrodynamic models of the Gulf of Finland

Myrberg, Kai; Ryabchenko, Vladimir; **Raudsepp, Urmas; Passenko, Jelena** Boreal environment research 2010 / p. 453-479 : ill

Wintertime reversals of estuarine circulation and related changes in oxygen and nutrient conditions in the Gulf of Finland

Lips, Urmas; Laanemets, Jaan; Elken, Jüri; Lips, Inga; Liblik, Taavi; Raudsepp, Urmas; Suhhova, Irina; Buschmann, Fred; Suursaar, Ülo 10th Baltic Sea Science Congress : Science and innovation for future of the Baltic and the European regional seas : 15-19 June, 2015, Riga, Latvia : abstract book 2015 / p. 94 http://www.bssc2015.lv/wp-content/uploads/2015/07/10th_BSSC_AbstractBook_final.pdf

Õlireostus jõudis Naissaare lähedale : [kommenteerib TTÜ meresüsteemide instituudi vanemteadur Urmas Raudsepp]

Käärt, Ulvar; **Raudsepp, Urmas** Eesti Päevaleht 2006 / 18. märts, lk. 4 <https://epi.delfi.ee/artikkel/51034352/olireostus-joudis-naissaare-lahedale>

Õlireostus murrab jõudsalt Tallinna lähisel ranna poole : [kommentaari ka TTÜ meresüsteemide instituudi vanemteadurilt Urmas Raudsepp]

Rajalo, Priit; **Raudsepp, Urmas** Postimees 2006 / 20. märts, lk. 4 <https://www.postimees.ee/1534249/olireostus-murrab-joudsalt-tallinna-lahistel-ranna-poole>

Õlireostus ähvardab Pranglit ja Naissaart : [kommentaari ka TTÜ meresüsteemide instituudi vanemteadurilt Urmas Raudsepp]

Reinap, Aivar; **Raudsepp, Urmas** Postimees 2006 / 17. märts, lk. 3 <https://www.postimees.ee/1533833/olireostus-ahvardab-pranglit-ja-naissaart>

