Absolute Dynamic Topography : corrected Nemo-Nordic Model for the Baltic Sea
Jahanmard, Vahidreza; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** 2023 https://doi.org/10.17882/96784

Absolute dynamic topography through synergizing sea level data sources utilizing a common and stable reference surface
Jahanmard, Vahidreza; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 https://doi.org/10.57757/IUGG23-1756

Accurate dynamic topography by satellite altimetry and marine geoidmodel
Mostafavi, Majid; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** 13th Coastal Altimetry Workshop & Coastal Altimetry Training, 6-10 February 2023, Universidad de Cádiz, Spain : abstract 2023 / p. 36
https://www.coastalaltimetry.org/NikalWebsitePortal/coastal-altimetry-workshop/esa/ExtraContent/ContentSubPage?page=8&subPage=3

Accurate sea surface heights from Sentinel-3A and Jason-3 retrackers by incorporating high-resolution marine geoid and hydrodynamic models
Mostafavi, Majid; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Journal of geodetic science 2021 / p. 58-74
https://doi.org/10.1515/jogs-2020-0120 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Airborne laser scanning derived sea surface height datasets in the Gulf of Finland (10.05.2018)
Varbla, Sander; **Ellmann, Artu**; **Delpeche-Ellmann, Nicole Camille** SEANOE 2020 https://doi.org/10.17882/76491

Along-track satellite altimetry to identify coastal sea level dynamics using a synergized geodetic-oceanographic approach = Satelliitaltimeetria pikiorbiitse andmestikuga rannikumere veetaseme dünaamika tuvastamine kasutades sünergilist geodeetilis-okeanograafilist meetodit
Mostafavi, Majid 2024 https://www.ester.ee/record=b5671644*est https://doi.org/10.23658/taltech.11/2024
https://digikogu.taltech.ee/et/Item/49eaa519-adfc-42a0-98dd-a69ba649331a

Application of deep conditional generative adversarial networks to fill the gaps of satellite altimetry-based absolute dynamic topography
Jahanmard, Vahidreza; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 / 1 p https://doi.org/10.57757/IUGG23-1627

Applications of airborne laser scanning for determining marine geoid and surface waves properties
Varbla, Sander; **Ellmann, Artu**; **Delpeche-Ellmann, Nicole Camille** European journal of remote sensing 2021 / p. 558−568
https://doi.org/10.1080/22797254.2021.1981156 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Applying machine learning with satellite altimetry data for prediction of absolute dynamic topography for the Baltic Sea
Mostafavi, Majid; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Poster Session 2022 / 26 l. https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf

An assessment and quantification of sea surface currents using satellite altimetry, in-situ and hydrodynamic model data for the Gulf of Finland, Baltic Sea
Delpeche-Ellmann, Nicole Camille; **Viikmäe, Bert**; **Pindsoo, Katri**; **Soomere, Tarmo** 2019 European Space Agency Living Planet Symposium 2019 / [1] p https://lps19.esa.int/NikalWebsitePortal/living-planet-symposium-2019/lps19/Speaker

Assessment of hydrodynamic model sea level performance through Geoid-Referenced Tide-Gauge and Satellite Altimetry : poster
Jahanmard, Vahidreza; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Living Planet Symposium (LPS22) 2022 / 1 p
https://www.lps22.eu/

Barotropic trends through the Barents Sea opening for the period 1975–2021
Jahanmard, Vahidreza; Löptien, Ulrike; Sandø, Anne Britt; Gierisch, Andrea M. U.; Dietze, Heiner; Lien, Vidar; **Delpeche-Ellmann, Nicole Camille**; Hordoir, Robinson Journal of Geophysical Research: Oceans 2025 / art. e2024JC021663
https://doi.org/10.1029/2024JC021663

A case study of transverse jets in coastal upwellings from a Lagrangian transport perspective
Delpeche-Ellmann, Nicole Camille; **Soomere, Tarmo** 55th International Liège Colloquium on Ocean Dynamics: Ocean Extremes: Liège, Belgium, 27-31 May 2024 2024 / 1 poster https://gher-uliege.github.io/liege-colloquium-2024/

Circulation patterns in the Gulf of Finland applied to environmental management of marine protected areas = Soome lahe pinnahoovuste mustrite rakendamisest looduskaitsealade haldamiseks
Delpeche-Ellmann, Nicole Camille 2014 https://digi.lib.ttu.ee/i/?1820 https://www.ester.ee/record=b4436090*est

Coastal sea level trend using multi mission along track satellite altimetry for the Baltic Sea
Mostafavi, Majid; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** XXVIII General Assembly of the International Union of

Geodesy and Geophysics (IUGG) 2023 / 1 p https://doi.org/10.57757/IUGG23-4967

Comparison of dynamic topography bias in HIROMB and NEMO-Nordic model by utilizing marine geoid
Jahanmard, Vahidreza; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Geophysical research abstracts 2020 / p. EGU2020-20134 https://doi.org/10.5194/egusphere-egu2020-20134

A comparison of the motions of surface drifters with offshore wind properties in the Gulf of Finland, the Baltic Sea
Delpeche-Ellmann, Nicole Camille; **Torsvik, Tomas**; **Soomere, Tarmo** Estuarine, coastal and shelf science 2016 / p. 154-164 : ill https://doi.org/10.1016/j.ecss.2016.02.009 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A data-fusion technique for forecasting of absolute sea levels in the Baltic Sea
Rajabi-Kiasari, Saeed; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** 2023 Machine Learning And Data Analysis In Oceanography, University of Liège, Belgium 2023 / 1 p A data-fusion technique for forecasting of absolute sea levels in the Baltic Sea

Deeper insights into the validation of hydrodynamic models using a synergy of remote sensing data
Delpeche-Ellmann, Nicole Camille; **Varbla, Sander**; **Jahanmard, Vahidreza**; **Ellmann, Artu** Baltic Earth Workshop Climate projections and uncertainties in the northern Baltic Sea region, Helsinki, Finland, 19-20 November, 2019 : Programme, Abstracts, Participants 2019 / p. 14-15

Determination of Accurate Dynamic Topography for the Baltic Sea Using Satellite Altimetry and a Marine Geoid Model
Mostafavi, Majid; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu**; **Jahanmard, Vahidreza** Remote sensing 2023 / art. 2189 https://doi.org/10.3390/rs15082189 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Determining the Accuracy of Sentinel-3A and Sentinel-6 Satellite Altimetry Data in the Gulf of Finland using a synergy of data : [poster presentation]
Heinoja, Lenne-Liisa; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** The Gulf of Finland Science Days 2021 “New start for the Gulf of Finland co-operation” : Estonian Academy of Sciences, Tallinn, 29-30 November 2021 : abstracts 2021 / p. 45 https://www.gulfoffinland.fi

Development of continuous dynamic vertical reference for maritime and offshore engineering by applying machine learning strategies
Delpeche-Ellmann, Nicole Camille; **Ellmann, Artu** 2023 Machine Learning And Data Analysis In Oceanography, University of Liège, Belgium 2023 / 1 p Development of continuous dynamic vertical reference for maritime and offshore engineering by applying machine learning strategies

Development of synergized method to determine accurate sea level using satellite altimetry and high-resolution geoid model
Jahanmard, Vahidreza; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Geodesy for a Sustainable Earth, Scientific Assembly of the International Association of Geodesy : abstract book 2021 / S5-053 https://mm.sciconf.cn/en/minisite/poster-detail-new/1646?poster_id=1563486 https://files.sciconf.cn/upload/file/20210626/20210626085039_69146.pdf

Developments towards deriving realistic dynamic topography by synergizing high-resolution geoid with sea level data = Merepinna realistliku dünaamilise topograafia saavutamine täppisgeoidi ja meretaseme andmestike kooskasutamisel
Jahanmard, Vahidreza 2024 https://www.ester.ee/record=b5649955*est https://digikogu.taltech.ee/et/Item/3cfc4a1d-ff3c-4366-b26b-86571453f628 https://doi.org/10.23658/taltech.3/2024

Evaluating of sea surface heights from multi-mission satellite altimetry by utilizing hydrodynamic and geoid models
Mostafavi, Majid; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Geodesy for a Sustainable Earth, Scientific Assembly of the International Association of Geodesy : abstract book 2021 / S5-032; 1 p https://mm.sciconf.cn/en/minisite/poster-detail-new/1646?poster_id=1566532

Evaluation of swot sea level data in the coastal areas of the Baltic Sea
Kupavõh, Aleksei; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** 30 years of progress in radar altimetry symposium, Montpellier, France, 2-7. Sept. 2024 : Abstract book 2024 / p. 213, art. 426 https://az659834.vo.msecnd.net/eventsairwesteuprod/production-nikal-public/338507f0dac84686b1d40a263ba347c6

Examination of the effects of wind induced forcings on surface drifters circulation patterns in the Gulf of Finland
Delpeche-Ellmann, Nicole Camille; **Torsvik, Tomas** 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. 48 http://www.bssc2015.lv/wp-content/uploads/2015/07/10th_BSSC_AbstractBook_final.pdf

Examining and quantifying the role of transverse jets in coastal upwellings, from a Lagrangian transport perspective
Delpeche-Ellmann, Nicole Camille; **Soomere, Tarmo**; **Ellmann, Artu** IUGG 2019 : abstract book 2019 / [1] p., abstract: IUGG19-2212 http://iugg2019montreal.com/abstract-book.html

Examining coastal upwellings from a Lagrangian perspective in the Gulf of Finland, Baltic Sea
Delpeche-Ellmann, Nicole Camille; **Mingelaite, Toma**; **Soomere, Tarmo** Geophysical research abstracts 2017 / p. EGU2017-

18648 https://meetingorganizer.copernicus.org/EGU2017/EGU2017-18648.pdf

Examining Lagrangian surface transport during a coastal upwelling in the Gulf of Finland, Baltic Sea
Delpeche-Ellmann, Nicole Camille; **Mingelaite, Toma**; **Soomere, Tarmo** Journal of marine systems 2017 / p. 21-30 : ill https://doi.org/10.1016/j.jmarsys.2016.10.007 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Examining mean dynamic topography using geodetic and oceanographic approaches for the Baltic Sea
Jahanmard, Vahidreza; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Session 1 - Planet Ocean and Geodesy 2022 / 2 p https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/66B785FC-3925-ED11-84B6-00155D0B0940.pdf https://www.conferencemanager.dk/nkg-2022/sessions

Examining surface circulation patterns of the Baltic Sea using satellite data, ocean models and in-situ observations
Delpeche-Ellmann, Nicole Camille; **Torsvik, Tomas**; **Soomere, Tarmo** Sentinel-3 for Science Workshop: Abstract Book 2015 / p. 284 http://seom.esa.int/S3forScience2015/page_session28.php

Examining the performance of along track multi-mission satellite altimetry – a case study for Sentinel-6
Heinoja, Lenne-Liisa; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Journal of geodetic science 2023 / art. 20220159 https://doi.org/10.1515/jogs-2022-0159 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Examining the performance of satellite altimetry along track sea level data for Sentinel-6, Jason3 and Sentinel-3
Heinoja, Lenne-Liisa; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Poster Session 2022 / 24 l. https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf

Examining the performance of satellite altimetry (SWOT) sea level data in the coastal areas of the Baltic Sea
Kupavõh, Aleksei; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu**; **Soomere, Tarmo** Journal of coastal research 2024 / p. 534-538 https://doi.org/10.2112/JCR-SI113-105.1

Examining the performance of the sentinel-3 coastal altimetry in the Baltic Sea using a regional high-resolution Geoid model
Birgiel, Elzbieta; **Ellmann, Artu**; **Delpeche-Ellmann, Nicole Camille** 2018 Baltic Geodetic Congress : BGC Geomatics, Olsztyn, Poland, 21-23 June, 2018 : proceedings 2018 / p. 196–201 : ill https://doi.org/10.1109/BGC-Geomatics.2018.00043

Examining the performance sentinel-3A SAR altimetry retrackers and hydrodynamic models sing a high-Resolution Geoid model in the Baltic Sea
Delpeche-Ellmann, Nicole Camille; **Mostafavi, Majid**; **Ellmann, Artu** 12th Coastal Altimetry Workshop : Coastal Altrimetry Training Course, 4-7 February, 2020 : European Space Agency ESRIN, Frascati, Italy : abstracts 2020 / p. 14 https://az659834.vo.msecnd.net/eventsairwesteuprod/production-nikal-public/ae128dad984c40168397660cc8d0ede7

Examining the role of bottom topography on coastal upwelling jets using a synergy of in-situ, satellite and model data in the Gulf of Finland, Baltic Sea
Delpeche-Ellmann, Nicole Camille; Döös, Kristofer; **Viikmäe, Bert**; **Soomere, Tarmo** Geophysical research abstracts 2018 / p. EGU2018-15364 https://meetingorganizer.copernicus.org/EGU2018/EGU2018-15364.pdf

Forecasting of absolute dynamic topography by utilizing machinelearning with synergy of satellite altimetry data
Delpeche-Ellmann, Nicole Camille; Rajabi-Kiasari, Saeed; **Ellmann, Artu** 13th Coastal Altimetry Workshop & Coastal Altimetry Training, 6-10 February 2023, Universidad de Cádiz, Spain : abstract 2023 / p. 42 https://www.coastalaltimetry.org/NikalWebsitePortal/coastal-altimetry-workshop/esa/ExtraContent/ContentSubPage?page=8&subPage=3

Forecasting of absolute dynamic topography using deep learning algorithm with application to the Baltic Sea
Rajabi-Kiasari, Saeed; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Computers & geosciences 2023 / art. 105406, 16 p. : ill https://doi.org/10.1016/j.cageo.2023.105406 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Forecasting of Sea Level Extremes using Deep Learning and Extreme Value Analysis
Delpeche-Ellmann, Nicole Camille; **Rajabi-Kiasari, Saeed**; **Soomere, Tarmo**; **Ellmann, Artu** EGU General Assembly 2025 2025 / art. EGU25-13350 https://meetingorganizer.copernicus.org/EGU25/EGU25-13350.html https://doi.org/10.5194/egusphere-egu25-13350

Forecasting sea level maxima using machine learning models in the Baltic Sea
Rajabi-Kiasari, Saeed; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** International Liège Colloquium 2024 : Ocean Extremes 2024 / 1 p https://gher-uliege.github.io/liege-colloquium-2024/abstracts/2024-01-26_12:01:45_IP_193.40.250.130.pdf

Fourier neural operators for emulating ocean models : Towards a knowledge-driven machine learning
Jahanmard, Vahidreza; **Ellmann, Artu**; **Delpeche-Ellmann, Nicole Camille** EGU General Assembly 2025 2025 / art. EGU25-4354 https://doi.org/10.5194/egusphere-egu25-4354

Hidden secrets of transverse coastal upwelling jets revealed using a synergy of data in the Gulf of Finland, Baltic Sea

Delpeche-Ellmann, Nicole Camille; **Soomere, Tarmo** Abstracts : [BSSC 2019] 2019 / p. 112
https://www.su.se/polopoly_fs/1.446756.1566224624!/menu/standard/file/abstracts_A5_ny.pdf

Influence of wind and waves on Lagrangian transport using a synergy of satellite and in-situ surface drifters for Baltic Sea
Delpeche-Ellmann, Nicole Camille; **Giudici, Andrea**; **Soomere, Tarmo**; **Ellmann, Artu** XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 https://doi.org/10.57757/IUGG23-3642

Instantaneous sea surface height prediction using satellite altimetry and deep learning
Rajabi-Kiasari, Saeed; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Living Planet Symposium (LPS25) 2025
https://lps25.esa.int/

Integrating satellite altimetry and deep learning for enhanced sea level forecasting
Rajabi-Kiasari, Saeed; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** EGU General Assembly 2025 2025 / art. EGU25-9951
https://meetingorganizer.copernicus.org/EGU25/EGU25-9951.html https://doi.org/10.5194/egusphere-egu25-9951

An iterative approach for near-coast Marine Geoid Modelling and sea level analysis using satellite altimetry, in-situ and modeled data
Delpeche-Ellmann, Nicole Camille; **Ellmann, Artu** IUGG 2019 : abstract book 2019 / [1] p., abstract: JG06 p-107
http://iugg2019montreal.com/abstract-book.html

Long-term and decadal sea-level trends of the Baltic Sea using along-track satellite altimetry
Mostafavi, Majid; **Ellmann, Artu**; **Delpeche-Ellmann, Nicole Camille** Remote sensing 2024 / art. 760
https://doi.org/10.3390/rs16050760

Machine learning Forecasting of Absolute Dynamic Topography in the Baltic Sea
Rajabi-Kiasari, Saeed; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Poster Session 2022 / 36 l. https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf

Machine learning prediction for filling the interruptions of tide gauge data using a least square estimation method from nearest stations
Jahanmard, Vahidreza; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Geodesy for a Sustainable Earth, Scientific Assembly of the International Association of Geodesy : abstract book 2021 / S5-030 p. 529 https://mm.sciconf.cn/en/minisite/poster-detail-new/1646?poster_id=1563508 https://files.sciconf.cn/upload/file/20210626/20210626085039_69146.pdf

A multivariate-multistep-ahead forecasting of dynamic topography using convolutional encoder-decoder network in the Baltic Sea
Rajabi Kiasari, Saeed; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 / 1 p https://doi.org/10.57757/IUGG23-1664

Observations of Lagrangian transport using a synergy of satellite and in-situ surface drifters in the Baltic Sea for the period 2011-2018
Delpeche-Ellmann, Nicole Camille; **Giudici, Andrea**; **Rätsep, Margus**; **Soomere, Tarmo**; **Ellmann, Artu** Living Planet Symposium (LPS22) 2022 / 1 p https://www.lps22.eu/

Observations of surface drift and effects induced by wind and surface waves in the Baltic Sea for the period 2011–2018
Delpeche-Ellmann, Nicole Camille; **Giudici, Andrea**; **Rätsep, Margus**; **Soomere, Tarmo** Estuarine, coastal and shelf science 2021 / art. 107071, 13 p. : ill., map https://doi.org/10.1016/j.ecss.2020.107071 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Performance of sentinel-3 and CryoSat-2 altimetry in the coastal regions of the Baltic Sea ; S6-P2
Birgiel, Elzbieta; **Ellmann, Artu**; **Delpeche-Ellmann, Nicole Camille** International Symposium Gravity, Geoid and Height Systems 2 : GGHS2018 : “Gravity Field Of The Earth” : The 2nd joint meeting of the International Gravity Field Service and Commission 2 of the International Association of Geodesy, Copenhagen, Denmark, Sept. 17-21, 2018 : abstract book 2018 / p. 143-144

Performance of sentinel-3A SAR altimetry retrackers: The SAMOSA coastal sea surface heights for the Baltic Sea
Birgiel, Elzbieta; **Ellmann, Artu**; **Delpeche-Ellmann, Nicole Camille** Fiducial Reference Measurements for Altimetry : Proceedings of the International Review Workshop on Satellite Altimetry Cal/Val Activities and Applications 2020 / p. 23-32
https://doi.org/10.1007/1345_2019_59

Possible presence of shear instabilities at steep slopes during an upwelling event in the Gulf of Finland, Baltic Sea
Delpeche-Ellmann, Nicole Camille; **Soomere, Tarmo** Journal of coastal research Proceedings of the 15th International Coastal Symposium, Haeundae, Busan, 13-18 May 2018 2018 / p. 481–485 https://doi.org/10.2112/SI85-097.1
https://www.jcronline.org/doi/abs/10.2112/SI85-097.1 Conference Proceedings at Scopus Article at Scopus Conference Proceedings at WOS Article at WOS

The potential of SWOT altimetry data for validating the accuracy of marine geoidmodels in the Baltic Sea
Kupavõh, Aleksei; **Ellmann, Artu**; **Delpeche-Ellmann, Nicole Camille**; **Varbla, Sander** GGHS2024 : Gravity, Geoid and Height Systems : Book of Abstracts 2024 / p. 18-19 https://www.gghs2024.com/appsnfiles/go/boa/Book-of-Abstracts.pdf?v=1725460868

Properties of in-situ Lagrangian surface drifters and the relationship with Stokes drift in the Baltic Sea
Delpeche-Ellmann, Nicole Camille; **Giudici, Andrea** Journal of coastal research 2024 / p. 417-421 https://doi.org/10.2112/JCR-SI113-082.1

Quantification of hydrodynamic model sea level bias utilizing deep learning and synergistic integration of data sources
Jahanmard, Vahidreza; Hordoir, Robinson; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Ocean modelling 2023 / art. 102286 : ill., map https://doi.org/10.1016/j.ocemod.2023.102286 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Quantifying absolute dynamic topography by synergy of satellite, geoid and hydrodynamic model
Mostafavi, Majid; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 https://doi.org/10.57757/IUGG23-2385

Realistic coastal dynamic topography by a synergy of satellite altimetry data and marine geoid
Ellmann, Artu; **Jahanmard, Vahidreza**; **Varbla, Sander**; **Mostafavi, Majid**; **Delpeche-Ellmann, Nicole Camille** Living Planet Symposium (LPS22) 2022 / 1 p https://www.lps22.eu/

Realistic dynamic topography through coupling geoid and hydrodynamic models of the Baltic Sea
Jahanmard, Vahidreza; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Continental shelf research 2021 / art. 104421 https://doi.org/10.1016/j.csr.2021.104421 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Reanalysis of ocean model-based dynamic topography utilizing deep neural network and geoid-referenced observations
Jahanmard, Vahidreza; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** 2023 Machine Learning And Data Analysis In Oceanography, University of Liège, Belgium 2023 / 1 p Reanalysis of ocean model-based dynamic topography utilizing deep neural network and geoid-referenced observations

Reconstruction of dynamic topography using cyclostationary empirical orthogonal functions in the Baltic Sea
Mostafavi, Majid; **Rajabi-Kiasari, Saeed**; **Jahanmard, Vahidreza**; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Poster Session 2022 / 25 l. https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf

Retrieval of directional power spectral density and wave parameters from airborne LiDAR point cloud
Jahanmard, Vahidreza; **Varbla, Sander**; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Ocean engineering 2022 / art. 112694 https://doi.org/10.1016/j.oceaneng.2022.112694 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

River water level monitoring from satellite radar altimetry multi missions a case study of the Amazon and Danube rivers
Mostafavi, Majid; Shirzad, R.; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** 12th Coastal Altimetry Workshop : Coastal Altrimetry Training Course, 4-7 February, 2020 : European Space Agency ESRIN, Frascati, Italy : abstracts 2020 / p. 34-35 https://az659834.vo.msecnd.net/eventsairwesteuprod/production-nikal-public/ae128dad984c40168397660cc8d0ede7

Satelliitaltimeetria andmetel põhineva merepinna kõrguste täpsuse tuvastamine erinevate andmestike koosmõjul
Heinoja, Lenne-Liisa; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Geodeet 2022 / lk. 26-30 : ill http://www.ester.ee/record=b1072198*est

Satellite altimetry derived dynamic topography using high-resolution geoid model with synergized sealevel data sources
Kupavõh, Aleksei; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** 30 years of progress in radar altimetry symposium, Montpellier, France, 2-7. Sept. 2024 : Abstract book 2024 / p. 184-185, art. 362 https://az659834.vo.msecnd.net/eventsairwesteuprod/production-nikal-public/338507f0dac84686b1d40a263ba347c6

Satellite altimetry performance verified to enhanced hydrodynamic model of the Baltic Sea
Mostafavi, Majid; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Living Planet Symposium (LPS22) 2022 / 1 p https://www.lps22.eu/

Sea level forecasting using deep recurrent neural networks with high-resolution hydrodynamic model
Rajabi-Kiasari, Saeed; **Ellmann, Artu**; **Delpeche-Ellmann, Nicole Camille** Applied ocean research 2025 / art. 104496 https://doi.org/10.1016/j.apor.2025.104496

Sea level time series gap-filling with satellite altimetry using a bi-directional SARIMA model
Mostafavi, Majid; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** 2023 Machine Learning And Data Analysis In Oceanography, University of Liège, Belgium 2023 / 1 p Sea level time series gap-filling with satellite altimetry using a bi-directional SARIMA model

Shipborne GNSS acquisition of sea surface heights in the Baltic Sea
Liibusk, Aive; **Varbla, Sander**; **Ellmann, Artu**; **Vahter, Kaimo**; **Uiboupin, Rivo**; **Delpeche-Ellmann, Nicole Camille** Journal of geodetic science 2022 / 21 p. : ill., map https://doi.org/10.1515/jogs-2022-0131 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Studying upwelling phases in the Kazakhstan part of the Caspian sea
Rakisheva, Zaure Bayanovna; **Delpeche-Ellmann, Nicole Camille**; Sakhayeva, Aigerim International journal of mathematics and physics 2020 / p. 45−50 : ill https://doi.org/10.26577/ijmph.2020.v11.i1.06 Journal metrics at Scopus Article at Scopus Article at WOS

SWOT-derived geometric marine geoid surface complements gravimetric geoid modelling approaches
Kupavõh, Aleksei; **Ellmann, Artu**; **Delpeche-Ellmann, Nicole Camille**; **Varbla, Sander** EGU General Assembly 2025 2025 / art. EGU25-10957 https://doi.org/10.5194/egusphere-egu25-10957

A synergy approach for the validation of coastal altimetry data in the Baltic Sea
Delpeche-Ellmann, Nicole Camille; **Pindsoo, Katri**; **Kudryavtseva, Nadezhda**; **Soomere, Tarmo** 10th Coastal Altimetry workshop, 21-24 February 2017, Florence, Italy : abstracts 2017 / p. 37 http://old.esaconferencebureau.com/docs/default-source/17c07-img/abstract-book.pdf?sfvrsn=0

Synergy of in-situ and hydrodynamic modelling to develop machine learning strategies for dynamic vertical Reference for Maritime and Offshore Engineering
Delpeche-Ellmann, Nicole Camille; **Ellmann, Artu** XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 https://doi.org/10.57757/IUGG23-3653

The effects of wind and waves on in-situ surface drift in the Baltic Sea [Online resource]
Delpeche-Ellmann, Nicole Camille; **Giudici, Andrea**; **Soomere, Tarmo** Geophysical research abstracts 2020 / p. EGU2020-11496 https://doi.org/10.5194/egusphere-egu2020-11496

The role of bathymetry and shear instabilities in the evolution of upwelling process : a transverse surface jet perspective
Delpeche-Ellmann, Nicole Camille; **Soomere, Tarmo** The 15th International Coastal Symposium 2018 Haeundae, Busan, Republic of Korea 13th – 18th May 2018 : book of abstracts 2018 / p. 313

The role of nearshore slope on cross-shore surface transport during a coastal upwelling event in Gulf of Finland, Baltic Sea
Delpeche-Ellmann, Nicole Camille; **Soomere, Tarmo**; **Kudryavtseva, Nadezhda** Estuarine, coastal and shelf science 2018 / p. 123-135 : ill https://doi.org/10.1016/j.ecss.2018.03.018 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Towards realistic dynamic topography from coast to offshore by incorporating hydrodynamic and geoid models
Jahanmard, Vahidreza; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Ocean modelling 2022 / art. 102124 https://doi.org/10.1016/j.ocemod.2022.102124 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Tracks of surface drifters from a major fairway to marine protected areas in the Gulf of Finland
Delpeche-Ellmann, Nicole Camille; **Torsvik, Tomas**; **Soomere, Tarmo** Proceedings of the Estonian Academy of Sciences 2015 / p. 226-233 : ill https://artiklid.elnet.ee/record=b2740528*est https://doi.org/10.3176/proc.2015.3.04 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

24 years sea level trend of Baltic Sea using resampled machine learning satellite altimetry data : poster
Mostafavi, Majid; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Living Planet Symposium (LPS22) 2022 / 1 p https://www.lps22.eu/

24 years sea level trend of Gulf of Finland using resampled machine learning satellite altimetry data [Poster presentation]
Mostafavi, Majid; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** The Gulf of Finland Science Days 2021 “New start for the Gulf of Finland co-operation” : Estonian Academy of Sciences, Tallinn, 29-30 November 2021 : abstracts 2021 / p. 64 https://www.gulfoffinland.fi

Utilising airborne laser scanning and geoid model for examining marine processes
Varbla, Sander; **Ellmann, Artu**; **Delpeche-Ellmann, Nicole Camille** Abstracts : [BSSC 2019] 2019 / p. 166 https://www.su.se/polopoly_fs/1.446756.1566224624!/menu/standard/file/abstracts_A5_ny.pdf

Utilizing airborne laser scanning and geoid model for near-coast improvements in sea surface height and marine dynamics
Varbla, Sander; **Ellmann, Artu**; **Delpeche-Ellmann, Nicole Camille** Journal of coastal research 2020 / p. 1339-1343 https://doi.org/10.2112/SI95-257.1 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Uued inimesed ja positsioonid
Delpeche-Ellmann, Nicole Camille; **Leoste, Janika**; **Kallakas, Heikko**; **Püüa, Margus**; **Spalatu, Nicolae**; **Reinsalu, Kristo** Mente et Manu 2024 / lk. 60-63 : fot https://www.ester.ee/record=b1242496*est

Validation of conventional and retracked Sentinel-3 observations along the Norwegian coast
Mostafavi, Majid; **Jahanmard, Vahidreza**; **Rajabi-Kiasari, Saeed**; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Poster Session 2022 / 27 l.
https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf

Validation of marine geoid models by utilizing hydrodynamic model and shipborne GNSS profiles
Varbla, Sander; **Ellmann, Artu**; **Delpeche-Ellmann, Nicole Camille** Marine geodesy 2020 / p. 134-162
https://doi.org/10.1080/01490419.2019.1701153 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Validation of multi-satellite altimetry data utilizing a high-resolution marine geoid for the Baltic Sea
Mostafavi, Majid; **Ellmann, Artu**; **Delpeche-Ellmann, Nicole Camille** 12th Coastal Altimetry Workshop : Coastal Altrimetry Training Course, 4-7 February, 2020 : European Space Agency ESRIN, Frascati, Italy : abstracts 2020 / p. 27
https://az659834.vo.msecnd.net/eventsairwesteuprod/production-nikal-public/ae128dad984c40168397660cc8d0ede7

Validation of the new Sentinel-3 satellite altimetry data in the Baltic Sea basin
Kudryavtseva, Nadezhda; **Delpeche-Ellmann, Nicole Camille**; **Soomere, Tarmo** The 11th Baltic Sea Science Congress "Living Along Gradients : Past, Present, Future" : June 12-16, 2017 : abstracts 2017 / p. 311 https://www.io-warnemuende.de/tl_files/conference/bssc2017/bssc2017-abstract-book.pdf

Validation of the Sentinel-3A SRAL altimeter data for the coastal waters of the Baltic Sea
Delpeche-Ellmann, Nicole Camille; **Ellmann, Artu**; **Birgiel, Elzbieta** IUGG 2019 : abstract book 2019 / [1] p., abstract: JM09p-113
http://iugg2019montreal.com/abstract-book.html