

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 geoid model

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/NikaWebsitePortal/coastal-altimetry-workshop/esa/ExtraContent/ContentSubPage?page=8&subPage=3>

ALK and ATKIS - GIS solution of surveying and mapping in Germany

Birth, Konrad; Brüggemann, Heinz GIS-Baltic Sea States '93 : exhibition, conference, Tallinn, Estonia, 29 November - 1 December : proceedings 1994 / p. 270-279

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 geodeetilise-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>

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 I. <https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf>

Assessment of marine geoid models by shipborne GNSS and airborne laser scanning profiles

Varbla, Sander; Ellmann, Artu [EUREF2019 abstracts] 2019 / p. [59] <https://www.maaamet.ee/euref2019/EUREF2019-Abstracts.pdf>

Assessment of marine geoid models by ship-borne GNSS profiles

Varbla, Sander; Ellmann, Artu; Märdla, Silja; Gruno, Anti Geodesy and cartography 2017 / p. 41-49 : ill
<https://doi.org/10.3846/20296991.2017.1330771> [Journal metrics at Scopus](#) [Article at Scopus](#)

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](#)

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](#)

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](#)

Developments towards deriving realistic dynamic topography by synergizing high-resolution geoid with sea level data =

Merepinna realistliku dünaamilise topograafia saavutamise 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>

Eddy-driven flows over varying bottom topography in natural water bodies

Heinloo, Jaak Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2006 / 4, p. 235-245 : ill

Einfluss der Oberflächentopographie der Schichtdickennormale auf die Bestimmung der Schichtdicke

Laaneots, Rein; Põdra, Priit VIII Internationales Oberflächenkolloquium. Chemnitz, 1992. Band 2 1992 / S. 178-182

Enhanced turbulence driven by mesoscale motions and flow-topography interaction in the Denmark Strait Overflow

plume

Schaffer, Janin; Kanzow, Torsten; **Zhubas, Victor** Journal of geophysical research. Oceans 2016 / p. 7650-7672 : ill
<https://doi.org/10.1002/2016JC011653> [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>

Far-zone gravity field contributions corrected for the effect of topography by means of Molodensky's truncation coefficients

Tenzer, Robert; Novak, Pavel; Vajda, Peter; **Ellmann, Artu**; Abdalla, Ahmed Studia geophysica et geodaetica 2011 / p. 55-71 : ill
<https://link.springer.com/article/10.1007/s11200-011-0004-7>

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/NikaWebsitePortal/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](#)

Global ellipsoid-referenced topographic, bathymetric and stripping corrections to gravity disturbance

Vajda, Peter; **Ellmann, Artu**; Meurers, B.; Vanicek, P.; Novak, Pavel; Tenzer, Robert Studia geophysica et geodaetica 2008 / 1, p. 19-34 <https://link.springer.com/article/10.1007/s11200-008-0003-5>

Iterative data assimilation approach for the refinement of marine geoid models using sea surface height and dynamic topography datasets

Varbla, Sander; Ellmann, Artu Journal of geodesy 2023 / art. 24, 22 p. : ill <https://doi.org/10.1007/s00190-023-01711-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Iterative data assimilation approach for the refinement of marine geoid models using sea surface height and dynamic topography datasets : [conference paper]

Varbla, Sander; Ellmann, Artu XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 <https://doi.org/10.57757/IUGG23-0253>

Iterative refinement of regional marine geoid models by using sea surface height and dynamic topography datasets

Varbla, Sander; Ellmann, Artu Geodesy for a Sustainable Earth, Scientific Assembly of the International Association of Geodesy : abstract book 2021 / p. 111 S2a-026 https://files.scicconf.cn/upload/file/20210626/20210626085039_69146.pdf

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>

Microtopography and the properties of residual peat are convenient indicators for restoration planning of abandoned extracted peatlands

Triisberg, Triin; Karofeld, Edgar; Liira, Jaan; **Orru, Mall**; Ramst, Rein; Paal, Jaanus Restoration ecology 2014 / p. 31-39 : ill
<https://doi.org/10.1111/rec.12030> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

On evaluation of the mean gravity gradient within the topography

Tenzer, Robert; **Ellmann, Artu** Observing our changing Earth : proceedings of the 2007 IAG General Assembly : Perugia, Italy, July 2-13, 2007 2009 / p. 253-261 : ill
https://www.researchgate.net/publication/226879587_On_Evaluation_of_the_Mean_Gravity_Gradient_Within_the_Topography

On the nature of low-frequency currents over a shallow area of the southern coast of the Gulf of Finland

Lilover, Madis-Jaak; Pavelson, Juss; Kõuts, Tarmo Journal of marine systems 2014 / p. 66-75 : ill
<https://doi.org/10.1016/j.jmarsys.2013.06.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Planning of the national mapping under present conditions - but for the future

Skak-Nielsen, Kristian GIS-Baltic Sea States '93 : exhibition, conference, Tallinn, Estonia, 29 November - 1 December : proceedings 1994 / p. 265-268

Pollen-based maps of past regional vegetation cover in Europe over 12 millennia—evaluation and potential

Githumbi, Esther; Pirzamanbein, Behnaz; Lindström, Johan; **Poska, Anneli**; Fyfe, Ralph; Mazier, Florence; Nielsen, Anne Brigitte; Sugita, Shinya; Trondman, Anna-Kari; Woodbridge, Jessie; Gaillard, Marie-José Frontiers in Ecology and Evolution 2022 / art.

A practical software package for computing gravimetric geoid by the least squares modification of Hotine's formula

Abbak, Ramazan Alpay; **Ellmann, Artu**; Ustun, Aydin Earth science informatics 2022 / p. 713-724 <https://doi.org/10.1007/s12145-021-00713-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Protecting landscape structure of historical villages in the National Parks in Estonia. How to use the topographic analysis

Nutt, Nele Acta architecturae naturalis = Maastikuarhitektuurseid uurimusi 2018 / p. 66-76 : ill https://www.ester.ee/record=b5183441*est
<https://www.maastikuarhitektuur.ee/acta/article/view/68/59>

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>

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.cmcn.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](#)

Satellite altimetry and hydrodynamic model derived accurate dynamic topography utilizing Marine Geoid Model in Baltic Sea (2017-2019)

Mostafavi, Majid 2022 <https://doi.org/10.17882/94461>

Shape diversity in conodont elements, a quantitative study using 3D topography

Assemat, Alexandre; Thiery, Ghislain; **Lieffroy, Thibaud**; Girard, Catherine Marine Micropaleontology 2023 / art. 102292 <https://doi.org/10.1016/j.marmicro.2023.102292>

Shipborne GNSS-determined sea surface heights using geoid model and realistic dynamic topography

Varbla, Sander; Liibus, Aive; **Ellmann, Artu** Remote sensing 2022 / art. 2368, 30 p. : ill <https://doi.org/10.3390/rs14102368> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A spectral modelling of the gravitational contribution of the far-zone topography

Tenzer, Robert; Abdalla, Ahmed; Novak, Pavel; Vajda, Peter; **Ellmann, Artu** Geophysical research abstracts 2011 / p. EGU2011-9674

The Earth's gravity field components of the differences between gravity disturbances and gravity anomalies

Tenzer, Robert; **Ellmann, Artu**; Novak, Pavel; Vajda, Peter Observing our changing Earth : proceedings of the 2007 IAG General Assembly : Perugia, Italy, July 2-13, 2007 2009 / p. 155-159 : ill https://link.springer.com/chapter/10.1007/978-3-540-85426-5_18

Topograafilisest plaanist ja kaardist

Kala, Vello Geodeet 2002 / lk. 31-32

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.cmcn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf>

Система автоматизированного вариантного проектирования автомобильных дорог по топопланам

Mägi, Hans Тезисы докладов Всесоюзной конференции "Современные методы и алгоритмы расчета и проектирования строительных конструкций с использованием ЭВМ", Таллин, с 18 по 20 октября 1979 года. Часть вторая, [секция 3, Системы автоматизации проектирования. [Секция] 4, Проектирование оптимальных конструкций 1979 / с. 65-66 https://www.ester.ee/record=b1271175*est

