

**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>

**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>

**Accurate sea surface heights from Sentinel-3A and Jason-3 retracers 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

**Adapting a regional geoid model to national geodetic infrastructure and conventions [Online resource]**

Oja, Tõnis; Märdla, Silja; Ellmann, Artu; Rüdja, Andres 1st Joint Commission 2 and IGFS Meeting International Symposium on Gravity, Geoid and Height Systems 2016 : September 19-23, 2016, Thessaloniki, Greece : program 2016 / [2] p  
<http://gghs2016.com/search/?entry=958>

**Aerogravimõõtmised ja geoidi arvutustööd Taiwanis**

Ellmann, Artu Geodeet 2006 / lk. 23-27 : ill

**An attempt for an Amazon geoid model using Helmert gravity anomaly**

Blitzkow, D.; Matos, A.C.O.C.de; Campos, I.O.; Ellmann, Artu; Vanicek, P.; Santos, M.C. Observing our changing Earth : proceedings of the 2007 IAG General Assembly : Perugia, Italy, July 2-13, 2007 2009 / p. 187-194 : ill  
[https://www.researchgate.net/publication/226489398\\_An\\_Attempt\\_for\\_an\\_Amazon\\_Geoid\\_Model\\_Using\\_Helmert\\_Gravity\\_Anomaly](https://www.researchgate.net/publication/226489398_An_Attempt_for_an_Amazon_Geoid_Model_Using_Helmert_Gravity_Anomaly)

**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>

**Assessment of marine geoid models by ship-borne GNSS profiles in the Gulf of Finland ; S3-P21**

Varbla, Sander; Ellmann, Artu; Gruno, Anti 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. 81

**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>

**Comparison of least squares modifications of Stokes's and Hotine's formula using pointwise and gridded gravity data ; S3-P16**

Sakil, Fatima Feyza; Erol, Serdar; Isik, M. Serkan; Erol, Bihter; Ellmann, Artu 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. 75

**Comparison of methods applied for Marine Geoid Modelling in the Baltic Sea project FAMOS**

Agren, Jonas; Schwabe, Joachim; Saari, T.; Ellmann, Artu; Forsberg, R. IUGG 2019 : abstract book 2019 / [1] p., abstract: IUGG19-2965 <http://iugg2019montreal.com/abstract-book.html>

**Considerations on the further improvements of regional geoid modeling over the Baltic countries**

Ellmann, Artu Geodezija ir kartografija = Geodesy and cartography 2010 / 1, p. 5-15 : ill

**Deterministic and stochastic modifications of the Stokes formula**

Ellmann, Artu Geophysical research abstracts 2009 / p. EGU2009-9274-1 [CD-ROM]  
<https://meetingorganizer.copernicus.org/EGU2009/EGU2009-9274-1.pdf>

**Development of a 5 mm geoid model – a case study for Estonia**

Ellmann, Artu; Oja, Tõnis 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. 51 <https://www.space.dtu.dk/english/gghs2018/programme>

**Development of continuous dynamic vertical reference for maritime and offshore engineering by applying geodetic and machine learning strategies**

**Ellmann, Artu; Delpeche-Ellmann, Nicole Camille; Varbla, Sander; Rajabi Kiasari, Saeed; Jahanmard, Vahidreza; Kupavõh, Aleksei** EGU General Assembly 2025 2025 / art. EGU25-20596 <https://doi.org/10.5194/egusphere-egu25-20596>

**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](https://doi.org/10.5194/egusphere-egu23-20596)

**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://mm.sciconf.cn/en/minisite/poster-detail-new/1646?poster_id=1563486) [https://files.sciconf.cn/upload/file/20210626/20210626085039\\_69146.pdf](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 saavutamise täppisgeoidi ja meretaseme andmestike kooskasutamisel**

**Jahanmard, Vahidreza** 2024 [https://www.ester.ee/record=b5649955\\*est](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>

**Documentation of the BSCD2000 height reference grid**

Schwabe, J.; Ågren, J.; Liebsch, G.; **Varbla, Sander**; Teitsson, H.; Strykowski, G.; **Ellmann, Artu**; Forsberg, R.; Bilker-Koivula, M.; Liepiņš, I. 2023

**Downward continuation of airborne gravity data using high-resolution global geopotential models**

**Ellmann, Artu** The 8th International Conference Environmental Engineering : May 19-20, 2011, Vilnius, Lithuania : selected papers.

Volume III 2011 / p. 1315-1320 : ill

[https://www.researchgate.net/publication/228764575\\_Downward\\_continuation\\_of\\_airborne\\_gravity\\_data\\_using\\_highresolution\\_global\\_geopotential\\_models](https://www.researchgate.net/publication/228764575_Downward_continuation_of_airborne_gravity_data_using_highresolution_global_geopotential_models)

**Evaluation of a grace-based combined geopotential model over the Baltic countries**

**Ellmann, Artu; Jürgenson, Harli** Geodezija ir kartografija = Geodesy and cartography 2008 / 2, p. 35-44 : ill

<https://www.tandfonline.com/doi/abs/10.3846/1392-1541.2008.34.35-44>

**Evaluation of Stokes-Helmert geoid model computation using a synthetic gravity field**

Santos, M.C.; Vanicek, P.; **Ellmann, Artu** Joint Scientific Congress "Bridging Environmental Science, Policy, and Resource Management". Session : Gravity, Geoid and Height Systems 2013

**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 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 sentinel-3A SAR altimetry retracker and hydrodynamic models using a high-Resolution Geoid model in the Baltic Sea**

**Delpeche-Ellmann, Nicole Camille; Mostafavi, Majid; Ellmann, Artu** 12th Coastal Altimetry Workshop : Coastal Altimetry

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>

**Far-zone contributions to the gravity field quantities by means of Molodensky's truncation coefficients**

Tenzer, Robert; Novak, Pavel; Prutkin, Ilya; **Ellmann, Artu**; Vajda, Peter Studia geophysica et geodaetica 2009 / p. 157-167 : ill

<https://link.springer.com/article/10.1007/s11200-009-0010-1>

**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](#)

**From discrete gravity survey data to a high-resolution gravity field representation in the Nordic-Baltic region**

**Märdla, Silja**; Ågren, Jonas; Strykowski, Gabriel; Oja, Tõnis; **Ellmann, Artu** Marine geodesy 2017 / p. 416-453 : ill

<https://doi.org/10.1080/01490419.2017.1326428> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**From discrete gravity survey data to a high-resolution gravity field representation in the Nordic-Baltic region [Online resource]**

**Märdla, Silja;** Ågren, Jonas; Strykowski, Gabriel; Oja, Tõnis; **Ellmann, Artu** 1st Joint Commission 2 and IGFS Meeting International Symposium on Gravity, Geoid and Height Systems 2016 : September 19-23, 2016, Thessaloniki, Greece : program 2016 / [2] p <http://gghs2016.com/presentation-info/?presentation=719>

**Geodetic SAR for Baltic height system unification and Baltic Sea level research : final report**

Gruber, Thomas; Angermann, Detlef; Schlaak, Marius; Oikonomidou, Xanthi; Gisinger, Christoph; Brcic, Ramon; Poutanen, Markku; Marila, Simo; **Ellmann, Artu;** **Varbla, Sander** 2021 [https://www.asg.ed.tum.de/fileadmin/w00cip/iapg/Baltic/SAR-HSU-FR-0022\\_Final\\_Report.pdf](https://www.asg.ed.tum.de/fileadmin/w00cip/iapg/Baltic/SAR-HSU-FR-0022_Final_Report.pdf)

**Geodetic SAR for height system unification and sea level research - observation concept and preliminary results in the Baltic Sea**

Gruber, Thomas; Agren, Jonas; Angermann, Detlef; **Ellmann, Artu;** Engfeldt, Andreas; Gisinger, Christoph; Jaworski, Leszek; **Varbla, Sander** Remote sensing 2020 / art. 3747, 30 p. : ill <https://doi.org/10.3390/rs12223747> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Geodetic SAR for height system unification and sea level research - observation concept and results in the Baltic Sea**

Gruber, Thomas; Argen, Jonas; Angermann, Detlef; **Ellmann, Artu;** Gisinger, Christoph; Nastula, Jolanta; Poutanen, Markku; Schlaak, Marius; Nilfouroushan, Faramarz; **Varbla, Sander** Geodesy for a Sustainable Earth, Scientific Assembly of the International Association of Geodesy : abstract book 2021 / p. 78 S1-067 [https://files.sciconf.cn/upload/file/20210626/20210626085039\\_69146.pdf](https://files.sciconf.cn/upload/file/20210626/20210626085039_69146.pdf)

**Geodetic SAR for height system unification and sea level research in the Baltics**

Gruber, Thomas; Agren, Jonas; Angermann, Detlef; **Ellmann, Artu;** Gisinger, Christoph; Nastula, Jolanta; Oikonomidou, Xanthi; Poutanen, Markku Geophysical research abstracts 2020 / EGU2020-3132, 1 p <https://doi.org/10.5194/egusphere-egu2020-3132>

**Geodetic SAR for height system unification and sea level research-results in the Baltic Sea test network**

Gruber, Thomas; Agren, Jonas; Angermann, Detlef; **Ellmann, Artu;** Engfeldt, Andreas; Gisinger, Christoph; Jaworski, Leszek; Kur, Tomasz; Marila, Simo; Varbla, Sander Remote sensing 2022 / art. 3250 <https://doi.org/10.3390/rs14143250> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Geodetic validation of sea Level variability in offshore**

**Ellmann, Artu;** Kollo, Karin; **Varbla, Sander** IUGG 2019 : abstract book 2019 / [1] p., abstract: JG06 p-109 <http://iugg2019montreal.com/abstract-book.html>

**Geoid modeling by the least squares modification of Hotine's and Stokes' formulae using non-gridded gravity data**

Sakil, Fatima Feyza; Erol, Serdar; **Ellmann, Artu;** Erol, Bihter Computers & geosciences 2021 / art. 104909 <https://doi.org/10.1016/j.cageo.2021.104909> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Geoid profiles in the Baltic Sea determined using GPS and sea level surface**

Jürgenson, Harli; Liibus, Aive; **Ellmann, Artu** Geodezija ir kartografija = Geodesy and cartography 2008 / 4, p. 109-115

**Geoidi modelleerimine kõrguste lähtenivoopinnana**

**Ellmann, Artu;** **Märdla, Silja;** Oja, Tõnis Teadusmõte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 21-36 : ill [https://www.ester.ee/record=b5208765\\*est](https://www.ester.ee/record=b5208765*est)

**Improving and validating gravity data over ice-covered marine areas**

**Märdla, Silja;** Oja, Tõnis; **Ellmann, Artu;** Jürgenson, Harli IAG 150 years : proceedings of the 2013 IAG Scientific Assembly, Potsdam, Germany, 1-6 September, 2013 2016 / p. 263-270 : ill [http://dx.doi.org/10.1007/1345\\_2015\\_163](http://dx.doi.org/10.1007/1345_2015_163)

**Improving regional gravity field and geoid modelling by various use of global geopotential models [Online resource]**

**Märdla, Silja;** **Ellmann, Artu;** Oja, Tõnis; Ågren, Jonas 26th IUGG General Assembly 2015 : Prague, Czech Republic, Prague Congress Centre, June 22-July 02, 2015 2015 / [1] p

**The influence of bathymetry on regional marine geoid modeling in Northern Europe**

**Varbla, Sander** Journal of Marine Science and Engineering 2022 / art. 793, 25 p. : ill <https://doi.org/10.3390/jmse10060793> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Interrelation between the geoid and orthometric heights**

**Ellmann, Artu;** Vanicek, P.; Santos, M.; Kingdon, R. Harita dergisi 2007 / June, Special issue 18, Proceedings of the 1st International Symposium of the International Gravity Field Service "Gravity Field of the Earth" : 28 August - 1 September, 2006, Istanbul, Turkey, p. 130-135

**Investigations towards the NKG2014 geoid model in Estonia [Electronic resource]**

**Märdla, Silja;** Oja, Tõnis; **Ellmann, Artu** Abstract Book for the NKG General Assembly : Göteborg, Sweden, September 1-4, 2014 2014 / p. 14 [http://www.lantmateriet.se/globalassets/kartor-och-geografisk-information/gps-och-matning/nkg2014/abstract\\_book\\_nkg2014\\_web.pdf](http://www.lantmateriet.se/globalassets/kartor-och-geografisk-information/gps-och-matning/nkg2014/abstract_book_nkg2014_web.pdf)

**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>

**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 refinement and accuracy validation of marine geoid models = Meregeoidi mudelite iteratiivne täpsustamine ja täpsuse valideerimine**

**Varbla, Sander** 2023 <https://doi.org/10.23658/taltech.35/2023> <https://digikogu.taltech.ee/et/Item/4087a2ae-321e-4a1b-b11f-dd8fd5ab1b99>  
[https://www.ester.ee/record=b5568726\\*est](https://www.ester.ee/record=b5568726*est)

**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.sciconf.cn/upload/file/20210626/20210626085039\\_69146.pdf](https://files.sciconf.cn/upload/file/20210626/20210626085039_69146.pdf)

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

**Varbla, Sander; Ellmann, Artu** Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Poster Session 2022 / 38 l.  
<https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf>

**Kosmosetehnoloogia rakendused geoidi ja gravitatsioonivälja täpsustamiseks Eesti alal**

**Ellmann, Artu; Oja, Tõnis; Jürgenson, Harli** Geodeet 2011 / lk. 22-25 : ill

**Kosmosetehnoloogilised rakendused geoidi ja gravitatsioonivälja modelleerimiseks Eesti alal**

**Ellmann, Artu** Tallinna Tehnikaülikooli aastaraamat 2008 2009 / lk. 99-110 : ill

**Meregeoidi mudelite iteratiivne täpsustamine ja täpsuse valideerimine**

**Varbla, Sander** Geodeet 2024 / lk. 22-27 [https://www.ester.ee/record=b1072198\\*est](https://www.ester.ee/record=b1072198*est)

**Meregeoidi mudelite valideerimine GNSS- ja aerolaserskaneerimise profiilidega**

**Varbla, Sander** Geodeet 2019 / lk. 19-26 : ill [http://www.ester.ee/record=b1072198\\*est](http://www.ester.ee/record=b1072198*est)

**Modelling the influence of terraced landforms to the Earth's gravity field**

**Märdla, Silja; Oja, Tõnis; Ellmann, Artu; Jürgenson, Harli** Gravity, Geoid and Height Systems : proceedings of the IAG Symposium GGHS2012, October 9-12, 2012, Venice, Italy 2014 / p. 157-162 : ill

**Modified Stokes's formula for regional geoid modeling : deterministic and stochastic modifications of Stokes's formula for computing an improved geoid model over the Baltic Countries**

**Ellmann, Artu** 2009 [https://www.ester.ee/record=b2616287\\*est](https://www.ester.ee/record=b2616287*est)

**Mudelpindade EST-GEOID2011 ja EST-GEOID2003 omavahelistest erinevustest ning võimalikust üleminekust uuele kõrgussüsteemile**

**Oja, Tõnis; Ellmann, Artu; Jürgenson, Harli; Kall, Tarmo** Geodeet 2011 / lk. 31-37 : ill

**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>

**New 5 mm geoid model for Estonia**

**Ellmann, Artu; Oja, Tõnis** [EUREF2019 abstracts] 2019 / p. [60] <https://www.maaamet.ee/euref2019/EUREF2019-Abstracts.pdf>

**A new Taiwanese geoid model based upon airborne, satellite and terrestrial gravimetric data**

**Ellmann, Artu; Hwang, C.; Hsiao, Y.-S.** Harita dergisi 2007 / June, Special issue 18, Proceedings of the 1st International Symposium of the International Gravity Field Service "Gravity Field of the Earth" : 28 August - 1 September, 2006, Istanbul, Turkey, p. 72-77 : ill  
[http://space.cv.nctu.edu.tw/static/data/publications/Ellmann\\_IGFS2006\\_TaiwanGeoid\\_v2.pdf](http://space.cv.nctu.edu.tw/static/data/publications/Ellmann_IGFS2006_TaiwanGeoid_v2.pdf)

**On the development of the new Nordic gravimetric geoid model NKG2015**

**Ågren, Jonas; Märdla, Silja; Ellmann, Artu** 26th IUGG General Assembly 2015 : Prague, Czech Republic, Prague Congress Centre, June 22-July 02, 2015 2015 / [1] p

**Ortalama gravite anomalilerinin enterpolasyonunda basit ve tamamlanmış Bouguer yaklaşımının karşılaştırılması**  
Abbak, Ramazan Alpay; Üstün, Aydın; **Ellmann, Artu** Journal of geodesy and geoinformation = Jeodezi ve jeoinformasyon dergisi 2012 / p. 45-52 : ill <https://dergipark.org.tr/tr/pub/hkmojjd/issue/53154/704803>

**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 retracers: 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](https://doi.org/10.1007/1345_2019_59)

**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/appsfiles/go/boa/Book-of-Abstracts.pdf?v=1725460868>

**A precise gravimetric geoid model in a mountainous area with scarce gravity data : a case study in central Turkey**  
Abbak, Ramazan Alpay; Sjöberg, Lars E.; **Ellmann, Artu**; Ustun, Aydın Studia geophysica et geodaetica 2012 / p. 909-927 : ill  
<https://link.springer.com/article/10.1007/s11200-011-9001-0>

**Rahvusvaheline Maa raskuskiirendusvälja teenistuse konverents IGFS2006 Istanbulis**  
**Ellmann, Artu**; **Oja, Tõnis** Geodeet 2006 / lk. 28-29 [https://artiklid.elnet.ee/record=b1019983\\*est](https://artiklid.elnet.ee/record=b1019983*est)

**Raskuskiirenduse anomaalvälja ja geoidi mudelpinna täpsustamine Eestis**  
**Ellmann, Artu**; **Oja, Tõnis**; All, Tarmo; Jürgenson, Harli; Kall, Tarmo; Liibus, Aive Tartu Ülikooli Ilmade Observatooriumi 150. aastapäeva konverentside artiklid 2016 / lk. 152-164 : ill

**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/>

**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](https://www.lps22.eu/)

**Regional geoid computation by least squares modified Hotine's formula with additive corrections**  
**Märdla, Silja**; **Ellmann, Artu**; Agren, Jonas; Sjöberg, Lars E. Journal of geodesy 2018 / p. 253-270 : ill <https://doi.org/10.1007/s00190-017-1061-7> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Regional geoid computation by least squares modified Hotine's formula with additive corrections**  
**Märdla, Silja**; **Ellmann, Artu**; Agren, Jonas; Sjöberg, Lars E. IAG-IASPEI 2017 : Joint Scientific Assembly of the International Association of Geodesy (IAG) and International Association of Seismology and Physics of the Earth's Interior (IASPEI) : Kobe (Japan), July 30 - August 4, 2017 : abstract book 2017 / p. [83] [http://www.iag-iaspei-2017.jp/files/IAG-IASPEI2017\\_abstracts.pdf](http://www.iag-iaspei-2017.jp/files/IAG-IASPEI2017_abstracts.pdf)

**Regional geoid modelling by the least squares modified Hotine formula using gridded gravity disturbances = Piirkondlik geoidi modelleerimine vähimruutude meetodil modifitseeritud Hotine valemiga kasutades võrgustatud raskuskiirenduse hälbeid**  
**Märdla, Silja** 2017 <https://digi.lib.ttu.ee//?9130> [https://www.ester.ee/record=b4749552\\*est](https://www.ester.ee/record=b4749552*est)

**Regional models of the gravity field from terrestrial gravity data of heterogeneous quality and density [Electronic resource]**  
**Märdla, Silja**; **Oja, Tõnis**; **Ellmann, Artu**; Jürgenson, Harli Geophysical research abstracts 2014 / p. EGU2014-168. [CD-ROM]

**Sander Varbla kaitses tehnikateaduste doktori kraadi**  
**Ellmann, Artu** Geodeet 2024 / lk. 42-43 : fot [https://www.ester.ee/record=b1072198\\*est](https://www.ester.ee/record=b1072198*est)

**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>

**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

### **Small-footprint airborne laser scanner data for validating marine geoid models**

**Gruno, Anti;** Liibusk, Aive; **Ellmann, Artu;** Oja, Tõnis; Vain, Ants; Jürgenson, Harli 2013 European Space Agency Living Planet Symposium : [programme and abstracts] 2013 / [1] p

### **Status report for the EUREF Working Group “European Unified Height Reference”**

Schwabe, Joachim; Sacher, Martina; Liebsch, Gunter; Lidberg, Martin; Denker, Heiner; Ågren, Jonas; Alfredson, Anders; Barzaghi, Riccardo; **Ellmann, Artu; Varbla, Sander** Abstracts EUREF 2023 2023 / p. 9-10 [https://www.chalmers.se/api/media/?url=https://cms.www.chalmers.se/Media/vifgxhe/abstract\\_booklet\\_euref\\_2023\\_may22.pdf?](https://www.chalmers.se/api/media/?url=https://cms.www.chalmers.se/Media/vifgxhe/abstract_booklet_euref_2023_may22.pdf?)

### **Status report for the EUREF Working Group “European Unified Height Reference”**

Schwabe, Joachim; Sacher, Martina; Liebsch, Gunter; Lidberg, Martin; Denker, Heiner; Ågren, Jonas; Alfredsson, Anders; Barzaghi, Riccardo; Bilker-Koivula, Mirjam; **Ellmann, Artu; Varbla, Sander** EUREF Symposium 2025 : Abstracts Book 2025 / p. 14 [Abstracts Book \(PDF\)](#)

### **Sub-commission 2.2 : Methodology for geoid and physical weight systems**

Ågren, Jonas; **Ellmann, Artu** IAG Reports 2015-2019 : Commission 2 - Gravity Field 2019 / p. 33-38 [https://iag.dgfi.tum.de/fileadmin/IAG-docs/Travaux2019/02\\_Commission\\_2\\_2015-2019.pdf](https://iag.dgfi.tum.de/fileadmin/IAG-docs/Travaux2019/02_Commission_2_2015-2019.pdf)

### **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>

### **Testing Stokes-Helmert geoid model computation on a synthetic gravity field : experiences and shortcomings**

Vanicek, Petr; **Ellmann, Artu** Studia geophysica et geodaetica 2013 / p. 369-400 : ill <https://doi.org/10.1007/s11200-012-0270-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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](https://link.springer.com/chapter/10.1007/978-3-540-85426-5_18)

### **The NKG2015 gravimetric geoid model for the Nordic-Baltic region [Online resource]**

Ågren, Jonas; Strykowski, Gabriel; **Märdla, Silja; Ellmann, Artu** 1st Joint Commission 2 and IGFS Meeting International Symposium on Gravity, Geoid and Height Systems 2016 : September 19-23, 2016, Thessaloniki, Greece : program 2016 / [2] p <http://gghs2016.com/presentation-info/?presentation=721>

### **The relation between the rigorous and Helmert's definitions of orthometric heights**

Santos, M.C.; Vanicek, P.; Featherstone, W.E.; Kingdon, R.; **Ellmann, Artu;** Martin, B.-A.; Kuhn, M.; Tenzer, Robert Journal of geodesy 2006 / 12, p. 691-704 <https://gge.ext.unb.ca/Personnel/Santos/JGon-line.pdf>

### **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](#)

### **Treatment of tide gauge time series and marine GNSS measurements for vertical land motion with relevance to the implementation of the Baltic Sea chart datum 2000**

**Varbla, Sander;** Ågren, Jonas; **Ellmann, Artu;** Poutanen, Markku Remote sensing 2022 / art. 920, 24 p. : ill <https://doi.org/10.3390/rs14040920> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **UNB application of Stokes-Helmert's approach to geoid computation**

**Ellmann, Artu;** Vanicek, P. Journal of geodynamics 2007 / p. 200-213 : ill <https://www.sciencedirect.com/science/article/pii/S0264370706000706>

### **Using high-resolution spectral models of gravity anomaly for computing stochastic modifications of Stokes's formula**

**Ellmann, Artu** Computers & geosciences 2012 / p. 188-190 : ill

### **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](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](#)

### **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 I.

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

**Validation of Copernicus sea level altimetry products in the Baltic Sea and Estonian lakes**

Liibusk, Aive; **Kall, Tarmo**; **Rikka, Sander**; **Uiboupin, Rivo**; Suursaar, Ülo; Tseng, K.-H. Remote sensing 2020 / art. 4062, p. 1-19

<https://doi.org/10.3390/rs12244062> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Validation of marine geoid models by profile-wise GNSS measurements on ice surface**

Liibusk, Aive; **Ellmann, Artu** Marine geodesy 2015 / p. 314-326 : ill <https://doi.org/10.1080/01490419.2015.1037408> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[Journal metrics at WOS](#) [Article at WOS](#)

**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 Altimetry

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 Earth gravitational model EGM08 over the Baltic countries**

**Ellmann, Artu** Gravity, Geoid and Earth Observation : IAG Commission 2: Gravity Field, Chania, Crete, Greece, 23-27 June 2008

2010 / p. 489-496 [https://link.springer.com/chapter/10.1007/978-3-642-10634-7\\_65](https://link.springer.com/chapter/10.1007/978-3-642-10634-7_65)