

A software platform to collect and store GPS drifter data

Giudici, Andrea; Soomere, Tarmo 2019 European Space Agency Living Planet Symposium 2019 / 1 p

<https://lps19.esa.int/NikalWebsitePortal/living-planet-symposium-2019/lps19/Speaker>

Analysis of wave properties in the Baltic Sea : integrating findings from the Gulf of Finland, Gulf of Riga and Western Baltic Coasts

Giudici, Andrea; Männikus, Rain; Jankowski, Mikolaj Zbigniew; Soomere, Tarmo New challenges for Baltic Sea Earth System research : conference proceedings 2024 / p. 61-62

https://baltic.earth/imperia/md/assets/baltic_earth/baltic_earth/baltic_earth/5bec_proceedings.pdf

An assessment of Caspian Sea modeled wave climate using ERA5 winds

Männikus, Rain; Giudici, Andrea; Mayemerova, Gülnara; Beisembekova, Meruyert; Rakisheva, Zaure Bayanovna; Soomere, Tarmo

Journal of coastal research 2024 / p. 649-653 <https://doi.org/10.2112/JCR-SI113-128.1>

Coefficients in Taylor's law increase with the time scale of water clarity measurements in a global suite of lakes

Glines, Max R.; Amancio, Renata C.H.; Andersen, Mikkel René; Baulch, Helen; Brighenti, Ludmila Silva; Chmiel, Hannah Elisa; Cohen, Joel E.; de Eyto, Elvira; Erina, Oxana; Feuchtmayr, Heidrun; Flaim, Giovanna; **Giudici, Andrea** Ecology Letters 2024 / art. e14451

<https://doi.org/10.1111/ele.14451> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A comparison of Baltic Sea wave properties simulated using two modelled wind data sets

Giudici, Andrea; Jankowski, Mikolaj Zbigniew; Männikus, Rain; Najafzadeh, Fatemeh; Suursaar, Ülo; Soomere, Tarmo

Estuarine, coastal and shelf science 2023 / art. 108401, 15 p. : ill <https://doi.org/10.1016/j.ecss.2023.108401> [Journal metrics at Scopus](#)

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

Compressibility of surface flows under the combined effect of currents and winds

Giudici, Andrea; Kalda, Jaan; Soomere, Tarmo The 11th Baltic Sea Science Congress "Living Along Gradients : Past, Present,

Future" : June 12-16, 2017 : abstracts 2017 / p. 47 https://www.io-warnemuende.de/tl_files/conference/bssc2017/bssc2017-abstract-book.pdf

Development of a flexible, extendable, and low-cost control unit for surface drifters

Giudici, Andrea; Torsvik, Tomas; Soomere, Tarmo Journal of atmospheric and oceanic technology 2017 / p. 669-677 : ill

<https://doi.org/10.1175/JTECH-D-16-0116.1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of ice cover on wave statistics and wave-driven processes in the northern Baltic Sea

Najafzadeh, Fatemeh; Kudryavtseva, Nadezhda; Soomere, Tarmo; Giudici, Andrea Boreal environment research 2022 / p. 97-

116 : ill <https://www.borenav.net/BER/archive/pdfs/ber27/ber27-097-116.pdf> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at](#)

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

Estimating the wave statistics bias in the partially ice-covered regions of the Baltic Sea

Najafzadeh, Fatemeh; Kudryavtseva, Nadezhda; Giudici, Andrea; Soomere, Tarmo 3rd Baltic Earth Conference : Earth system changes and Baltic Sea coasts, To be held in Jastarnia, Hel Peninsula, Poland, 1 to 5 June 2020, Held online, 2-3 June 2020 :

Conference proceedings 2020 / P. 181-182 : ill [Proceeding](#)

Finite-time compressibility as an agent of frequent spontaneous patch formation in the surface layer: A case study for the Gulf of Finland, the Baltic Sea

Giudici, Andrea; Soomere, Tarmo Marine pollution bulletin 2014 / p. 239-249 : ill <https://doi.org/10.1016/j.marpolbul.2014.09.053>

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

Finnish Meteorological Institute's open data mining tool

Giudici, Andrea; Soomere, Tarmo 28th Nordic Seminar on Computational Mechanics, 22-23 October, Tallinn, 2015 : proceedings of the NSCM28 2015 / p. 59-62

A first look to Lagrangian coherent structures in the Gulf of Finland as a meanto identify hotspots of surface particle aggregation

Giudici, Andrea; Suara, Kabir Adewale; Soomere, Tarmo; Brown, Richard J. 3rd Baltic Earth Conference : Earth system changes and Baltic Sea coasts, To be held in Jastarnia, Hel Peninsula, Poland, 1 to 5 June 2020, Held online, 2-3 June 2020 : Conference

proceedings 2020 / p. 97-98 : ill ["proceedings"](#)

Generation of large pollution patches via collisions of sticky floating parcels driven by wind and surface currents

Giudici, Andrea; Kalda, Jaan; Soomere, Tarmo Marine pollution bulletin 2019 / p. 573-585 : ill

<https://doi.org/10.1016/j.marpolbul.2019.02.039> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

High-resolution wave model for coastal management and engineering in the eastern Baltic Sea

Giudici, Andrea; Männikus, Rain; Najafzadeh, Fatemeh; Jankowski, Mikolaj Zbigniew; Soomere, Tarmo; Suursaar, Ülo 4th Baltic Earth Conference Assessing the Baltic Sea Earth System : Jastarnia, Hel Peninsula, Poland, 30 May to 3 June 2022 :

conference proceedings 2022 / p. 150-151 : ill

https://baltic.earth/imperia/md/assets/baltic_earth/baltic_earth/baltic_earth/4bec_proceedings_web.pdf

Identification of areas of frequent patch formation from velocity fields

Giudici, Andrea; Soomere, Tarmo Journal of coastal research 2013 / p. 231-236 : ill <https://doi.org/10.2112/SI65-040> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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>

Intervjuu : Andrea Giudici

Giudici, Andrea Teadus kolme minutiga : 2017-2019 2019 / lk. 44-49 : ill https://www.ester.ee/record=b5245642*est [Läänemere lainete uurimine selgitab, kuidas tekivad ookeanis prügisaaired](#)

Joint impact of currents and winds on the patch formation near the coasts of the Gulf of Finland

Giudici, Andrea; Kalda, Jaan; Soomere, Tarmo The 15th International Coastal Symposium 2018 Haeundae, Busan, Republic of Korea 13th – 18th May 2018 : book of abstracts 2018 / p. 104

Joint impact of currents and winds on the patch formation near the coasts of the Gulf of Finland

Giudici, Andrea; Kalda, Jaan; Soomere, Tarmo Journal of coastal research Proceedings of the 15th International Coastal Symposium, Haeundae, Busan, 13-18 May 2018 2018 / p. 1156 - 1160 <https://doi.org/10.2112/SI85-232.1> <https://www.jcronline.org/doi/abs/10.2112/SI85-232.1> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Kuidas kolme minutiga maailma muuta?

Giudici, Andrea; Dorbek-Kolin, Elisabeth; Joonas, Elise; Roots, Fideelia-Signe; Urvik, Janek; Uuemaa, Madis; Laas, Oliver; Laansalu, Tiina Sirp 2017 / lk. 31 : fot <http://www.sirp.ee/s1-artiklid/c21-teadus/kuidas-kolme-minutiga-maailma-muuta/>

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

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

Marine drifter data collection tool [Online resource]

Giudici, Andrea Baltic Earth Workshop on multiple drivers for Earth system changes in the Baltic Sea region : Tallinn University of Technology, Tallinn, Estonia 26-27 November 2018 : [programme, abstracts, participants] 2018 / p. 32 https://www.baltic-earth.eu/publications/IBESPublications/No_14_Workshop_Multiple_Drivers_Tallinn_Nov2018/No.14_Tallinn2018.pdf

Measurement of spontaneous current-induced patch formation processes in the marine surface layer

Giudici, Andrea 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. 246 http://www.bssc2015.lv/wp-content/uploads/2015/07/10th_BSSC_AbstractBook_final.pdf

Measuring finite time compressibility from large simulated datasets : towards identification of areas of spontaneous patch formation in the Gulf of Finland

Giudici, Andrea; Soomere, Tarmo Databases and Information Systems : proceedings of the 11th International Baltic Conference, Baltic DB&IS 2014 : Tallinn, Estonia, 8-11 June, 2014 2014 / p. 441-446 : ill

Modeling patchiness on the sea surface caused by the interplay of winds and currents in the Gulf of Finland [Online resource]

Giudici, Andrea; Kalda, Jaan; Soomere, Tarmo 2nd Baltic Earth Conference The Baltic Sea in Transition : Helsingør, Denmark, 11 to 15 June 2018 : conference proceedings 2018 / p. 190-120 : ill https://www.baltic-earth.eu/publications/IBESPublications/No_13_Helsingor_Proceedings/2ndBalticEarthConferenceProceedings_IBESP_No13_web.pdf

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](#)

On the finite-time compressibility of the surface currents in the Gulf of Finland, the Baltic Sea

Kalda, Jaan; Soomere, Tarmo; Giudici, Andrea Journal of marine systems 2014 / p. 56-65 : ill <https://doi.org/10.1016/j.jmarsys.2012.08.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Patchiness of the sea surface under the combined effects of winds and currents

Giudici, Andrea; Soomere, Tarmo; Kalda, Jaan From small scales to large scales - The Gulf of Finland Science Days 2017, 9th-10th October 2017, Estonian Academy of Sciences, Tallinn : Oral presentations 2017 / p. 20
https://www.etis.ee/File/DownloadPublic/ebda3e4a-2eb0-4f26-971f-f16046bc0bed?name=TheGulfOfFinlandScienceDays_2017.pdf&type=application%2Fpdf

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 spontaneous current-induced patch formation in the marine surface layer = Spontaanne laikude formeerumine mere pinnahoovuste mõjul

Giudici, Andrea 2015 <https://digi.lib.ttu.ee/i/?1871> https://www.ester.ee/record=b4446070*est

Saaste jälgimise tehnoloogia Soome lahes

Giudici, Andrea Teadus kolme minutiga : 2017-2019 2019 / lk. 40-43 : portr., kaart https://www.ester.ee/record=b5245642*est

Spatiotemporal variability of wave climate in the Gulf of Riga

Najafzadeh, Fatemeh; Jankowski, Mikolaj Zbigniew; Giudici, Andrea; Männikus, Rain; Suursaar, Ülo; Viška, Maija; Soomere, Tarmo Oceanologia 2024 / p. 56-77 : ill <https://doi.org/10.1016/j.oceano.2023.11.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 run-up of long waves of different polarity on non-reflecting and flat cross-shore profiles

Rodin, Artem; Zemlyanikin, Andrey; Kurkin, Andrey; **Giudici, Andrea** 7th IEEE/OES Baltic Symposium Clean and Safe Baltic Sea and Energy Security for the Baltic countries : abstract book : 12–15 June 2018 Klaipėda, Lithuania 2018 / p. 54
http://balticvalley.lt/baltic2018/wp-content/uploads/2018/06/abstract-book_7th_Baltic-Symposium_20180528.pdf

The run-up of long waves of different polarity on non-reflecting and flat cross-shore profiles

Rodin, Artem; Zemlyanikin, Andrey; Kurkin, Andrey; **Giudici, Andrea** 2018 IEEE/OES Baltic International Symposium (BALTIC 2018) : Klaipėda, Lithuania 12 - 15 June 2018 2018 / p. 128-133 : ill <https://doi.org/10.1109/BALTIC.2018.8634864>

Tracking areas with increased likelihood of surface particle aggregation in the Gulf of Finland : a first look at persistent Lagrangian Coherent Structures (LCS)

Giudici, Andrea; Suara, Kabir Adewale; Soomere, Tarmo; Brown, Richard J. Journal of marine systems 2021 / art. 103514, 8 p. : ill., map <https://doi.org/10.1016/j.jmarsys.2021.103514> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Validation of multi-mission satellite altimetry for the Baltic Sea region

Kudryavtseva, Nadezhda; Soomere, Tarmo; Giudici, Andrea Geophysical research abstracts 2016 / p. EGU2016-5571