



A special journal issue was dedicated to the 1st Conference on Baltic Earth, held in Nida, Lithuania, 13-17 June 2016

The following 18 papers appear open-access in **Earth System Dynamics**

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Editor(s): HEM. Meier, A. Rutgersson, B. Smith, M. Reckermann, and I. Didenkulova

18 Jan 2018

[Contribution of atmospheric circulation to recent off-shore sea-level variations in the Baltic Sea and the North Sea](#)

Sitar Karabil, Eduardo Zorita, and Birgit Hünicke

Earth Syst. Dynam., 9, 69-90, <https://doi.org/10.5194/esd-9-69-2018>, 2018

11 Dec 2017

[Structure and functioning of the acid–base system in the Baltic Sea](#)

Karol Kuliński, Bernd Schneider, Beata Szymczycha, and Marcin Stokowski

Earth Syst. Dynam., 8, 1107-1120, <https://doi.org/10.5194/esd-8-1107-2017>, 2017

05 Dec 2017

[The potential of using remote sensing data to estimate air–sea CO₂ exchange in the Baltic Sea](#)

Gaëlle Parard, Anna Rutgersson, Sindu Raj Parampil, and Anastase Alexandre Charantonis

Earth Syst. Dynam., 8, 1093-1106, <https://doi.org/10.5194/esd-8-1093-2017>, 2017

17 Nov 2017

[Mechanisms of variability in decadal sea-level trends in the Baltic Sea over the 20th century](#)

Sitar Karabil, Eduardo Zorita, and Birgit Hünicke

Earth Syst. Dynam., 8, 1031-1046, <https://doi.org/10.5194/esd-8-1031-2017>, 2017

14 Nov 2017

[Atmospheric teleconnections between the Arctic and the eastern Baltic Sea regions](#)

Liisi Jakobson, Erko Jakobson, Piia Post, and Jaak Jaagus

Earth Syst. Dynam., 8, 1019-1030, <https://doi.org/10.5194/esd-8-1019-2017>, 2017

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[Trends and regime shifts in climatic conditions and river runoff in Estonia during 1951–2015](#)

Jaak Jaagus, Mait Sepp, Toomas Tamm, Arvo Järvet, and Kiira Mõisja

Earth Syst. Dynam., 8, 963-976, <https://doi.org/10.5194/esd-8-963-2017>, 2017

26 Oct 2017

[Climate indices for the Baltic states from principal component analysis](#)

Liga Bethere, Juris Sennikovs, and Uldis Bethers

Earth Syst. Dynam., 8, 951-962, <https://doi.org/10.5194/esd-8-951-2017>, 2017

13 Oct 2017

[Ship emissions and the use of current air cleaning technology: contributions to air pollution and acidification in the Baltic Sea](#)

Björn Claremar, Karin Haglund, and Anna Rutgersson

Earth Syst. Dynam., 8, 901-919, <https://doi.org/10.5194/esd-8-901-2017>, 2017

14 Sep 2017

[Effects of the 2014 major Baltic inflow on methane and nitrous oxide dynamics in the water column of the central Baltic Sea](#)

Jukka-Pekka Myllykangas, Tom Jilbert, Gunnar Jakobs, Gregor Rehder, Jan Werner, and Susanna Hietanen

Earth Syst. Dynam., 8, 817-826, <https://doi.org/10.5194/esd-8-817-2017>, 2017

07 Sep 2017

[Low-frequency variability in North Sea and Baltic Sea identified through simulations with the 3-D coupled physical–biogeochemical model ECOSMO](#)

Ute Daewel and Corinna Schrum

Earth Syst. Dynam., 8, 801-815, <https://doi.org/10.5194/esd-8-801-2017>, 2017

08 Aug 2017

[Satellite altimetry reveals spatial patterns of variations in the Baltic Sea wave climate](#)

Nadezhda Kudryavtseva and Tarmo Soomere

Earth Syst. Dynam., 8, 697-706, <https://doi.org/10.5194/esd-8-697-2017>, 2017

17 Jul 2017

[A wind proxy based on migrating dunes at the Baltic coast: statistical analysis of the link between wind conditions and sand movement](#)

Svenja E. Bierstedt, Birgit Hünicke, Eduardo Zorita, and Juliane Ludwig

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[Drought identification in the eastern Baltic region using NDVI](#)

Egidijus Rimkus, Edvinas Stonevicius, Justinas Kilpys, Viktorija Maciulyte, and Donatas Valiukas

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[Estimation of the high-spatial-resolution variability in extreme wind speeds for forestry applications](#)

Ari Venäläinen, Mikko Laapas, Pentti Pirinen, Matti Horttanainen, Reijo Hyvönen, Ilari Lehtonen, Päivi Junila, Meiting Hou, and Heli M. Peltola

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[Evaluating the atmospheric drivers leading to the December 2014 flood in Schleswig-Holstein, Germany](#)

Nils H. Schade

Earth Syst. Dynam., 8, 405-418, <https://doi.org/10.5194/esd-8-405-2017>, 2017

12 Apr 2017

[Assessment of extreme hydrological conditions in the Bothnian Bay, Baltic Sea, and the impact of the nuclear power plant “Hanhikivi-1” on the local thermal regime](#)

Anton Y. Dvornikov, Stanislav D. Martyanov, Vladimir A. Ryabchenko, Tatjana R. Eremina, Alexey V. Isaev, and Dmitry V. Sein

Earth Syst. Dynam., 8, 265-282, <https://doi.org/10.5194/esd-8-265-2017>, 2017

06 Mar 2017

[Characteristics of convective snow bands along the Swedish east coast](#)

Julia Jeworrek, Lichuan Wu, Christian Dieterich, and Anna Rutgersson

Earth Syst. Dynam., 8, 163-175, <https://doi.org/10.5194/esd-8-163-2017>, 2017