

Dr.-Ing. Sönke Dangendorf

Curriculum Vitae

January 2020

Email: soenke.dangendorf@uni-siegen.de

Personal Data

Date and Place of Birth: 20/10/1983 in Lemgo, Germany
Nationality: German
Address: 530 New Jersey Ave, Norfolk, VA, 23508, USA

Academic and Professional Experience

since 12/2019: Assistant Professor (Tenure-Track) for Ocean, Earth and Atmospheric Sciences at Old Dominion University in Norfolk, Virginia

11/2016-12/2019: “Akademischer Rat” (German equivalent to Assistant Professor/Lecturer) and Researcher (Group Leader “Mean Sea Level”), Research Institute for Water and Environment (fwu), Department of Civil Engineering

09/2015-11/2016: Researcher (Group Leader “Mean Sea Level”), Research Institute for Water and Environment (fwu), Department of Civil Engineering

09/2014-08/2015: Researcher (Postdoc), University of Siegen, Research Institute for Water and Environment (fwu), Department of Civil Engineering

10/2010-09/2014: Research Associate, University of Siegen, Research Institute for Water and Environment (fwu), Department of Civil Engineering

Education

10/2010-09/2014: PhD in Coastal Engineering (Dr.-Ing.), University of Siegen, supervised by Prof. Dr.-Ing. Jürgen Jensen and Prof. Dr. Hans von Storch, PhD thesis: “Sea level variability and its role for coastal flood risk in the southeastern North Sea: Insights into past, present and future sea level changes” (cumulative thesis, defended in 09/2014, grade: *Summa Cum Laude*)
Examiners: Prof. Dr. Nassos Vafeidis, Prof. Dr. Alfred Müller

09/2004-09/2010: Diploma in Civil Engineering (Dipl.-Ing.), specialised in Hydraulic Engineering, University of Siegen, supervised by Prof. Dr.-Ing. Jürgen Jensen and Prof. Dr. Edgar Kaufmann, Diploma thesis: “Methods to detect change points in water level time series – Application to the German Bight” (in German)

Awards

- 05/2019: “Forschungspreis” (Research Award) for outstanding contributions in the field of sea level science from the “Naturwissenschaftlich-Technische Fakultät” at the University of Siegen (30.000€, see also: <https://www.uni-siegen.de/start/news/oeffentlichkeit/865469.html>)
- 10/2017: “Fokos Zukunftspreis” (Fokos Future-Award) for young scientists working on interdisciplinary and societal relevant topics from the University of Siegen (7500€, see also: <https://www.uni-siegen.de/fokos/aktuelles/744711.html>)
- 07/2017: Early Career Scientist Outstanding Poster Award at the WCRP/IOC Conference on Regional Sea Level Changes and Coastal Impacts in New York City, USA (<http://www.clivar.org/news/wcrpioc-sea-level-conference-day-5-highlights>)
- 05/2015: Outstanding Student Poster Award at the European Geophysical Union (EGU) 2015 for the poster „Mechanisms of long-term mean sea level variability in the North Sea“ (<http://www.egu.eu/awards-medals/ospp-award/2015/sonke-dangendorf/>)
- 10/2014 Outstanding PhD thesis award of the “Förderverein für Architektur und Bauingenieurwesen an der Universität Siegen” in October 2014

Travel Grants and Fellowships

- 11/2019: Invited keynote lecture at the IPCC SROCC workshop organized by the SMHI in Kolmården, Sweden
- 08/2019: Visiting Fellow for one week at the Department of Meteorology at the Stockholm University, Sweden (invited by Dr. Leon Chafik)
- 10/2018: Invited seminar and Visiting Fellow for one week at Harvard University, USA in October 2018 (invited by Prof. Jerry Mitrovica)
- 07/2018: Invited keynote lecture and travel grant for the Sea Level Futures PSMSL Conference (85th anniversary) in Liverpool, UK, in July 2018 (<http://conference.noc.ac.uk/sea-level-futures-2018>, invited by Dr. Svetlana Jevrejeva)
- 04/2018: Invited keynote lecture and travel grant for the 11th Sino-German Frontiers of Science Symposium 2018 in Shanghai, China, organized by the Humboldt Foundation and the Chinese Academy of Sciences (see also: <https://www.humboldt-foundation.de/web/sinogfos-2016.html>)
- 05/2017: IMEDEA (Mallorca, Spain) Visiting Fellow for the time from September to October 2017 (invited by: Dr. Marta Marcos)
- 05/2016: Visiting Fellow at Hiroshima University for one week in 2016 (invited by Prof.-Dr. Han Soo Lee)
- 02/2016: Early Career Scientist travel grant to the E3S Future Earth Cross Community Workshop in Berlin (invited by: Prof. Damia Gomis)
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| 07/2015: | IMEDEA (Mallorca, Spain) Visiting Fellow for the time from October to November 2015 (invited by: Dr. Marta Marcos) |
| 05/2015: | Visiting Fellow for an invited keynote lecture at the Saitama University, Japan (invited by: Prof. Dr. Han Soo Lee) |
| 11/2014 | Visiting Fellow at the University of Reading (invited by: Prof. Dr. Joaquim Pinto and Dr. Len Shaffrey) |
| 09/2014-10/2014 | Bjerknes Visiting Fellow at the Nansen Centre in Bergen, Norway (invited by: Dr. J.E.Ø. Nilsen) |
| 2012-2017: | Four travels grant from the German Academic Exchange Service (DAAD) in order to participate at the Fall Meetings of the American Geophysical Union in San Francisco (2012, 2013, 2015), and the Sea Level Conference in New York (2017) |

Research Stays (see also travel grants)

Since 2013 I have been actively exchanging with several international colleagues, which comprises 15 short (one week) to mid-term (up to 2 months) research stays as a Visiting Scientist at foreign institutions including Harvard University (Boston, USA), Boston College (USA), NASA JPL (Pasadena, USA), IMEDEA (Mallorca, Spain, 4 times in total), Nansen Centre (Bergen, Norway, twice), Hiroshima University (Japan), Saitama University (Tokyo, Japan), University of Reading (UK), the University of Stockholm (Sweden), and the National Oceanography Centre (Southampton, UK). These collaborations are visible in several commonly published or submitted papers and projects.

Memberships

American Geophysical Union (AGU)

European Geophysical Union (EGU)

World Climate Research Program (WCRP): Member of the global sea level budget team

Inter-Commission Committee on "Geodesy for Climate Research" (<https://iccc.iag-aig.org/>):

Regional sea level and vertical land motion

Research Interests

Summary:

My primary focus is the understanding of global and regional sea level variability (timescales from minutes to millennia) and its link to coastal flooding. I am particularly interested in enhancing our understanding of the associated atmospheric and oceanic processes and the role of anthropogenic and natural forcing. With this aim, I develop and apply advanced statistical approaches to describe the various processes in a physically meaningful way. My interests also include the processing of historical tide gauge records and their ability to describe the storminess conditions in different regions worldwide. In the recent past, I further investigated the ability of different approaches combining tide gauge records to estimate the complex geometry of regional sea level change and the resulting global mean. This also resulted in the development of a novel hybrid approach, which combines probabilistic Kalman Smoothers with Reduced Optimal Space Interpolation approaches only at timescales at which they perform best.

My (cumulative) PhD thesis was mainly dedicated to the understanding of sea level variability at timescales from hours to centuries in the North Sea and was published in a series of five papers in the Journals *Water*, *Ocean Dynamics*, *Climate Dynamics*, *Journal of Climate*, and *Journal of Geophysical Research* (see Publications for further information). Parallel to this, I have been working within different (i) research projects focusing on the proper description of spectral properties including long-term correlations and the application of extreme value statistics, and (ii) consulting projects focusing on inland hydrology and flood protection of, for instance, nuclear power plants.

Key words:

- Sea level and storm surge variations on intra-, inter-annual and decadal time scales
- Global mean sea level reconstructions
- Physical oceanography
- Coastal engineering
- Detection and attribution of climate change
- Reconstruction of historical tide gauge data
- Downscaling methods and application to climate change projections
- Statistical analysis of climate data
- Probabilistic methods in coastal and hydrological engineering
- Univariate and multivariate Extreme Value Statistics
- Risk analysis
- Uncertainty analysis

Research Grants

Total Research Funding: ~ € 3.900.000 (total project funding for all involved research institutions): PI = Principal Investigator (responsible for the joint project), Co-PI (PI in Siegen, but the joint project has been led by the cooperating institution), Partner (cooperating with foreign institutions in projects without explicitly receiving personal funding (exception: travel expenses))

| Duration | Funding | Role | Project Info |
|-----------------|--------------|-------|---|
| 03/2020-02/2023 | ~€ 450.000 | Co-PI | SEASCAPE II: Storm surges, sea-level rise and adaptation responses at the German Baltic Sea coast – Compound Risks (funded by the German Science Foundation (DFG), with Prof. Athanasios Vafeidis and Dr. Jochen Hinkel) |
| 09/2018-07/2020 | ~€ 1.400.000 | Co-PI | CASISAC: Changes in the Agulhas system and its impacts on Southern African coasts (funded by the German Federal Ministry of Education and Research (BMBF), with PI Prof. Arne Biastoch, and Co-PIs Prof. Nassos Vafeidis & Dr. Eduardo Zorita) |
| 07/2017-06/2019 | ~ € 50.000 | PI | Research Grant by the International Space Science Institute (ISSI) in Bern for leading the “International Team” Dangendorf/Marcos “Towards a unified sea level record: assessing the performance of global mean sea level reconstructions from satellite altimetry, tide gauges, paleo-proxies and geophysical models” from 2017-2019 |

| Duration | Funding | Role | Project Info |
|------------------|------------|---------|---|
| 08/2016-09/2017 | € 240.000 | PI | PEPSEA: Probabilistic Estimates of Past SEA level change (funded internally at the University of Siegen for the buildup of a DFG researcher group, with Prof. Jürgen Jensen, Prof. Paolo Reggiani, Prof. Alfred Müller, Prof. Hans Peter Scheffler, Prof. Alexander Schnurr, and Dr. Marco Oesting) |
| 08/2016-07/2019 | € 500.000 | PI* | MSL Absolut: Untersuchungen zum absoluten Meeresspiegelanstieg an der deutschen Nord- und Ostseeküste (funded by the German Federal Ministry of Education and Research (BMBF), with Prof. Jürgen Jensen & Prof. Wolfgang Niemeier) |
| 06/2016-05/2019: | € 350.000 | PI* | TIDEDYN: Analysis of long-term changes in the tidal dynamics in the North Sea (funded by the German Science Foundation (DFG), with Prof. Jürgen Jensen & Dr. Thomas Pohlmann) |
| 06/2016-05/2019 | € 356.400 | Co-PI* | SEASCAPE I: Storm surges, sea-level rise and adaption responses at the German Baltic Sea coastline (funded by the German Science Foundation (DFG), with Prof. Jürgen Jensen & Prof. Nassos Vafeidis & Dr. Jochen Hinkel) |
| 01/2016-12/2018 | € ????.??? | Partner | iNcREASE: NoRthern European and Arctic Sea lEvel (Research Council of Norway, with Dr. Jan Even Øie Nilsen) |
| 11/2015-10/2016 | € 13.000 | Partner | Estimation of nonlinear relative sea-level rise and its projection for coastal zone management in Asia (funded by the Sumitomo Foundation in Japan, with Prof. Han Soo Lee) |
| 07/2015-06/2018 | € 495.039 | PI* | AMSeL-Ostsee: Analysis of mean sea level changes along the German Baltic Sea coastline (funded by the German Federal Ministry of Education and Research (BMBF), with Prof. Jürgen Jensen & Prof. Peter Fröhle) |
| 04/2013-03/2014 | € 65.000 | PI | OPTeM: Optimization of extreme value statistics for hydro-meteorological data (funded internally at the University of Siegen), with Prof. Jürgen Jensen & Prof. Christoph Mudersbach & Prof. Alfred Müller & Prof. Edgar Kaufmann |

**I coordinated the proposal development and managed the projects after their acceptance; University regulations prevented me from being the official PI/Co-PI (contact: juergen.jensen@uni-siegen.de).*

Scientific Committees

Member of the Organizing Committee of the “*Workshop on Global and Regional Sea Level Variability and Change*” at the University of the Balearic Islands in June 2015, Palma de Mallorca,

Spain (together with: Dr. Marta Marcos, IMEDEA, Spain; Dr. Francisco Calafat, National Oceanography Centre, UK; Dr. Ivan Haigh, National Oceanography Centre, UK)

<https://slrmallorca.wordpress.com/>

Reviewer Activities/Community Services

Intergovernmental Panel on Climate Change Sixth Assessment Cycle:

- Contributing Author of the Special Report on Ocean and Cryosphere Chapter 4 “*Sea Level Rise and Implications*” 2018-2019

Oxford Research Encyclopaedias: Climate Sciences:

- Co-Author of the sea level rise chapter (together with Dr. Thomas Wahl), to be published in 2020 (<https://global.oup.com/academic/product/oxford-research-encyclopedias-climate-science-9780190228620?cc=de&lang=en&>)

EU GlobalMass project:

- External review panel invited to the mid-term workshop in Bristol by PI Prof. Jonathan Bamber (<https://www.globalmass.eu/>) in July 2019

Editor for:

- Editor (Earth, Environment, and Ecological Sciences) for “*Scientific Data*” (Nature Publishing Group)
- Review Editor of the Coastal Ocean Process Section in *Frontiers in Marine Science*
- Associate Editor of the Special Issue “Global and Regional Sea Level Variability and Change” in *Frontiers in Marine Science*

Reviewer for:

- *Nature Climate Change, Nature Communications, PNAS (USA), Nature Scientific Reports, Scientific Data (Nature Publishing Group), Geophysical Research Letters, Environmental Research Letters, Bulletin of the American Meteorological Society, Surveys in Geophysics, Climatic Change, Journal of Geophysical Research: Oceans, Climate of the Past, Continental Shelf Research, Ocean Science, Physica A, Journal of Coastal Research, Nonlinear Processes in Geophysics, Environmental Science: Processes and Impacts, Physics and Chemistry of the Earth, Ocean Dynamics, Climate Dynamics, Global and Planetary Change, Ocean Engineering, Water, Earth System Dynamics, Journal of Geodesy, International Journal of Climatology*
- *Norwegian Sea Level Report 2015*
(<http://www.miljodirektoratet.no/no/Publikasjoner/2015/September-2015/Havnivaendring-i-Norge/>)

Proposal Reviewer for:

- *New Hampshire Sea Grant College Program (2020-2021)*
- *Netherlands Organisation for Scientific Research (NWO) – Earth and Life sciences division*

Convener for:

- *Extreme sea levels and coastal flood risk at the Ocean Sciences Meeting 2020 (two oral and two poster slots)*

Outreach Activities

- Author of the chapter “*sea-level*” in the book “*30 seconds oceans*” for the international encyclopedia by Ivy Press (<https://www.quartoknows.com/series/931/30-Second/>)
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- Invited speaker for the BMBF funded outreach event “*Wissenschaft Kontrovers: Die Meere am Ende!?*” in May 2017 in Essen, Germany (<http://www.wissenschaft-kontrovers.de/veranstaltungen/essen/>)
- Organizer of the PEPSEA workshop “*People at risk? Extremes in a changing climate*” at the University of Siegen in March 2017 (Guest Speakers: Prof. Stefan Rahmstorf, Potsdam; Prof. Roland Gehrels, UK; Dr. Christian Genest, Canada)
- Organizer of the public lecture (pub science) “*Kneipe statt Hörsaal: Bedrohte Küsten? Meeresspiegel und Klimawandel*” in the pub „*Hackermann Küche und Bar*” in Siegen (Guest Speaker: Prof. Roland Gehrels, UK) in June 2016, https://www.youtube.com/watch?v=L_BDvjxfcmU
- Organizer of the fwu workshop “*Tracking global and Regional Sea Level Changes: An Interdisciplinary Challenge*” at the University of Siegen in February 2016 (Guest Speakers: Dr. Roelof Rietbroek, Bonn; Dr. Marta Marcos, Spain; Prof. Damia Gomis, Spain)

Teaching Activities

Courses/Lectures (regularly since 2011):

- Since 2017: “*Design approaches in hydraulic engineering*” (full course with 4 hours per week)
- Since 2016: “*Coastal Engineering*” (full course with 4 hours per week)
- Hydraulic engineering III: “*Coastal engineering*”
- Numerical methods in hydraulic engineering: “*MatLab*”
- Environmental analysis: “*Statistical analysis of climate data*”
- Hydraulic engineering III “*Waterway engineering*”

Supervised M.Sc., B.Sc. and Diploma theses and seminar papers:

- Jorid Nicola Höffken (2018): Modelling the influence of temporal variability of storm surges on coastal flood characteristics: The case of Eckernförde Bay, Master thesis at CAU Kiel (defended in December 2018, in German)
- Caroline Zöller (2017): Die Nordsee kommt – Untersuchungen zur Strandentwicklung in St. Peter Ording, Bachelor Thesis (defended in March 2018)
- Leon Jänicke (2016): Untersuchungen zu vertikalen Landbewegungen im Rahmen der Abschätzung des absoluten Meeresspiegelanstiegs an der Deutschen Nordseeküste, seminar paper (in German)
- Leon Jänicke (2016): Untersuchungen zur Detektion räumlicher Signale aus terrestrischen Frischwasserspeichern zur Massenbilanzierung im Ozean, M.Sc. Thesis (defended in October 2016, in German)
- Markus Stähler (2015): Historische Sturm- und Sturmflutänderungen aus Luftdruckproxies über Nordeuropa seit dem 17. Jahrhundert, seminar paper (in German)

Supervised PhD theses:

- Bernardino Nhantumbo (external examiner), Sea level variability along the east coast of South Africa, University of Cape Town, South Africa (with Prof. Chris Reason)
 - Sophie Williams (official 3rd supervisor), Historical sea-level changes in Australia: testing the Arctic ice melt hypothesis, NERC funded in the UK, (with Prof. Roland Gehrels (York University, UK), Prof. Edward Hanna (Sheffield University, UK), and Dr. Patrick Moss, University of Queensland, Australia)
 - Leigh McPherson: Multivariate stochastic extreme sea level generator for the Baltic Sea, DFG funded
 - Andra Ebener, Tidal changes in the German Bight, BMBF funded
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- Leon Jänicke, Tidal dynamics in the North Sea, ongoing PhD thesis, DFG funded
- Jessica Schmidt, Sea level variations in the Baltic Sea, ongoing PhD thesis, BMBF funded
- Sebastian Niehüser, Statistical-numerical storm surge forecasts in the North Sea, ongoing PhD thesis, BMBF funded
- Regular internal PhD seminars since 2016

Media

1. Main actor in the ZDF/3SAT/CNN sea-level documentary “66 meters” by the directors Alexander Lahl and Max Mönch shown in the German television in December 2019 and planned to be shown internationally (CNN) in 2020: <http://mobydok.de/66meters/>
 2. Article in La Stampa in Italy in September 2019: <https://www.lastampa.it/tuttogreen/2019/09/28/news/il-mare-sale-piu-velocemente-1.37503898>
 3. Article by CarbonBrief in the UK in September 2019: https://www.carbonbrief.org/explainer-how-climate-change-is-accelerating-sea-level-rise?fbclid=IwAR0iOJAXFHnuvCvGPC7rvuj8TObwpwF6UkpMAo07kyG0TbZB_jSBr1fr2-4
 4. Article by CarbonBrief in the UK in August 2019: <https://www.carbonbrief.org/global-sea-level-rise-began-accelerating-30-years-earlier-than-previously-thought>
 5. Article in ABC News Australia in August 2019 (also covered in many European and South American Newspapers): <https://www.abc.net.au/news/science/2019-08-06/sea-level-rise-accelerated-sixties/11373830>
 6. Interview in Westfalenpost in February 2018: <https://www.wp.de/region/sauer-und-siegerland/anstieg-des-meeresspiegels-hat-sich-bedrohlich-beschleunigt-id213542661.html>
 7. Interview in Radio Siegen in February 2018
 8. Interview in Augsburger Allgemeine in February 2018: <https://www.augsburger-allgemeine.de/panorama/Das-Meer-bedroht-die-deutschen-Inseln-id44226501.html>
 9. Article in Bustle Magazine on a new NASA sea level tool in November 2017: <https://www.bustle.com/p/new-nasa-tool-predicts-how-melting-glaciers-could-affect-your-city-as-global-warming-intensifies-5496755>
 10. Article in Deutsche Welle in May 2017: <http://www.dw.com/en/sea-level-rising-at-triple-speed-since-1990/a-38966492>
 11. Article for Climate Nexus in the United States in May 2017: <https://nexusmedianews.com/whats-really-driving-sea-level-rise-b1650e8f9459>
 12. Article in Washington Post in May 2017: https://www.washingtonpost.com/news/energy-environment/wp/2017/05/22/scientists-say-the-rate-of-sea-level-rise-has-nearly-tripled-since-1990/?utm_source=rss&utm_medium=energy-environment, which was further featured in many newspapers as “The Independent”, “La Vanguardia”, “National Geographic”, and “The Hindu”
 13. Article in Cosmos Magazine in April 2016 (Australia: <https://cosmosmagazine.com/climate/most-sea-level-rise-1970-due-greenhouse-gas-emissions>)
 14. February 2016 feature on Phys.org (<http://phys.org/news/2016-02-thousands-pieces-sea-extreme-phenomena.html>)
 15. July/August 2015 newspaper article about my Nature Communications paper: Der Standard (<http://derstandard.at/2000020020238/Beitrag-des-Menschen-zum-Anstieg-des-Meeresspiegels-koennte-geringer-sein>), WAZ (<http://www.derwesten.de/staedte/nachrichten-aus-siegen-kreuztal-netphen->
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- hilchenbach-und-freudenberg/forscher-in-siegen-meeresspiegel-anstieg-durch-ozeanzklus-id10933467.html), Scinexx (http://www.scinexx.de/wissen-aktuell-19142-2015-07-30.html?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+scinexx+%28scinexx+%7C+Das+Wissensmagazin%29), Weser Kurier, Kölner Stadtanzeiger, etc.
16. Radio interview NDR WIZO July 2015
 17. Interview Deutsche Welle July 2015: <http://www.dw.com/de/nat%C3%BCrliche-schwankungen-des-meeresspiegels-werden-untersch%C3%A4tzt/a-18615685>
 18. Interview Deutsche Welle January 2015: <http://www.dw.com/de/anstieg-des-globalen-meeresspiegels-schwer-zu-berechnen/a-18190037>

Publications

Summary:

42 peer review papers (7 in Nature Journals, 1 in PNAS) and 5 in preparation or under review, 71 conference contributions and presentations (27 invited talks/keynotes), 1199 citations in total, h-index: 20 (01/21/2020 Google Scholar)

Working Papers (peer reviewed, in prep or under review):

1. Frederikse, T., Landerer, F., Caron, L., Adhikari, S., Parkes, D., Humphrey, V., Dangendorf, S., Hogarth, P., Zanna, L., Cheng, L., Wu, H. (under review): Explaining the causes of sea-level rise since 1900, *Nature*
2. Radtke, H., Haigh, I.D., Calafat, F.M., Dangendorf, S., Nicholls, R.J., Cippolini, P., Francis, K., Winter, H. (in prep.): Reconstructing missing UK tide gauge data to confine local long-term variations in sea level, *J. Geophys. Res.*
3. Frederikse, T., Adhikari, S., Dangendorf, S., Gehrels, R., Landerer, F., Marcos, M., Slangen, A., Wöppelmann, G. (in revision): Constraining 20th century sea-level rise in the South Atlantic Ocean, *J. Geophys. Res.*
4. Gehrels, R.W., Dangendorf, S., Barlow, N.L.M., Saher, M.H., Long, A.J., Woodworth, P.L., Piecuch, C.G., Berk, K. (in revision): Pre-industrial sea-level rise hotspots in the Northwest Atlantic Ocean, *Geophysical Research Letters*
5. Höffken, J., Vafeidis, A., McPherson, L., Dangendorf, S. (in revision): Effects of the temporal variability of storm surges on coastal flooding, *Frontiers in Marine Science*

Published Papers (peer reviewed):

1. Haigh, I.D., Pickering, M., Green, M., Arbic, B., Arns, A., Dangendorf, S., et al. (accepted): The Tides They Are A-Changin': A comprehensive review of past and future non-astronomical changes in tides, their driving mechanisms and future implications, *Rev. in Geophys.*, online first
 2. Dangendorf, S., Hay, C., Calafat, F.M., Marcos, M., Piecuch, C.G., Berk, K., Jensen, J. (2019): Persistent acceleration in global sea-level rise since the 1960s, *Nature Climate Change*, 9, 705-710
 3. Piecuch, C.G., Dangendorf, S., Gawarkiewicz, G.G., Little, C.M., Ponte, R.M., Yang, J. (2019): How is New England coastal sea level related to the Atlantic meridional overturning circulation at 26°N?, *Geophys. Res. Lett.*, <https://doi.org/10.1029/2019GL083073>
 4. Piecuch, C., Calafat, F.M., Dangendorf, S., Jorda, G. (2019): The ability of barotropic model to simulate historical mean sea level changes from coastal tide gauge data, *Surveys in Geophysics*, <https://doi.org/10.1007/s10712-019-09537-9>
 5. Gräwe, U., Klingbeil, K., Kelln, J., Dangendorf, S. (in press): Decomposing mean sea level rise in a semi-enclosed basin, the Baltic Sea, *J. Climate*
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6. McPherson, L., Arns, A., Dangendorf, S., Vafeidis, A., Jensen, J. (in press): A stochastic extreme sea level model for the German Baltic Sea coast, *J. Geophys. Res.*, <https://doi.org/10.1029/2018JC014718>
 7. Chafik, L., Nilsen, J.E.O., Dangendorf, S., Reverdin, G., Frederikse, T. (2019): Increased role for ocean circulation on Northern European sea level over the past two decades, *Nature Scientific Reports*, 9, 1041
 8. Vermeersen, B., Slangen, A.B.A., Gerkema, T., Baart, F., Cohen, K., Dangendorf, S. et al. (2018): Sea-level change in the Dutch Wadden Sea, *Netherlands J. of Geosciences*, 97-3, 79-127
 9. Cazenave, A., Meyssignac, B., Ablain, M.,..., Dangendorf, S. et al. (2018): Global sea-level budget 1993-present, *Earth System Science Data*, 10, 1551-1590
 10. Frederikse, T., Jevrejeva, S., Riva, R., Dangendorf, S. (2018): A consistent sea-level reconstruction and its budget on basin and global scales over 1958-2014, *Journal of Climate*, <https://doi.org/10.1175/JCLI-D-17-0502.1>
 11. Visser, H., Dangendorf, S., van Vuuren, D.P., Bregman, B., Petersen, A.C. (2018): Signal detection in global mean temperatures after “Paris”: quantifying sources of uncertainty, *Climate of the Past*, <https://doi.org/10.5194/cp-2017-88>
 12. Dangendorf, S., Marcos, M. (2018): A reconciled estimate of 20th century global mean sea level rise, *Sea Level Rise (US CLIVAR Variations Letter)*, 16, 1
 13. Chafik, L., Nilsen, J.E.O., Dangendorf, S. (2017): Impact of North Atlantic Teleconnection Patterns on Northern European Sea Level, *J. Mar. Sci. Eng.*, 5, 43, doi:10.3390/jmse5030043
 14. Santamaria-Gomez, A., Gravelle, M., Dangendorf, S., Marcos, M., Spada, G., Wöppelmann, G. (2017): Uncertainty of the 20th century sea-level rise due to vertical land motion errors, *Earth and Planetary Science Letters*, 473, 24-32
 15. Wahl, T., Haigh, I.D., Nicholls, R., Arns, A., Dangendorf, S., Hinkel, J., Slangen, A. (2017): Understanding extreme sea levels for broad-scale coastal impact and adaptation analysis, *Nature Communications*, 16075, doi:10.1038/ncomms16075
 16. Dangendorf, S., Marcos, M., Wöppelmann, G., Conrad, C., Riva, R.E.M., Frederikse, T. (2017): Reassessment of 20th century global mean sea level rise, *PNAS*, doi:10.1073/pnas.1616007114 (featured e.g. in Washington Post: https://www.washingtonpost.com/news/energy-environment/wp/2017/05/22/scientists-say-the-rate-of-sea-level-rise-has-nearly-tripled-since-1990/?utm_source=rss_energy-environment, and by Climate Nexus: <https://nexusmedianews.com/whats-really-driving-sea-level-rise-b1650e8f9459>)
 17. Haigh, I.D., Marcos, M., Dangendorf, S., Calafat, F.M. (2017) Editorial: Sea level variability and change, *Frontiers in Marine Science*, <https://doi.org/10.3389/fmars.2017.00046>
 18. Arns, A., Dangendorf, S., Bender, J., Talke, S., Pattiaratchi, C., Jensen, J. (2017): Sea-level rise induced amplification of coastal protection design heights, *Nature Scientific Reports*, 7, 40171
 19. Niehüser, S., Wahl, T., Dangendorf, S., Jensen, J., Hofstede, J. (in press): Zum Einfluss möglicher Setzungserscheinungen am Leuchtturm Cuxhaven auf die Wasserstandszeitreihe, *Die Küste*
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 29. Jensen, J., Dangendorf, S., Wahl, T., Steffen, H. (2014): Meeresspiegeländerungen in der Nordsee: Vergangene Entwicklungen und zukünftige Herausforderungen mit einem Fokus auf die Deutsche Bucht, *Hydrology und Wasserbewirtschaftung*, 58(4), 304-323
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 32. Dangendorf, S., Calafat F.M, Arns, A., Haigh, I.D., Wahl, T., Jensen, J. (2014): North Sea mean sea level variability: processes and implications, *J. Geophys. Res.*, doi:10.1002/2014JC009901
 33. Haigh, I.D., Wahl, T., Rohling, E.J., Price, R.M., Pattiaratchi, C.B., Calafat, F.M., Dangendorf, S. (2014): Timescales for detecting a significant acceleration in sea level rise, *Nature Communications*, 5, 3635.
 34. Dangendorf, S., Müller-Navarra, S., Jensen, J., Schenk, F., Wahl, T., Weisse, R. (2014): North Sea storminess from a novel storm surge record since AD 1843, *Journal of Climate*, 27, 3582-3595
 35. Arns, A., Wahl, T., Dangendorf, S., Mudersbach, C., Jensen, J. (2013): Ermittlung regionalisierter Extremwasserstände für die Schleswig-Holsteinische Nordseeküste, *Hydrology und Wasserbewirtschaftung*, 57, 264-278 (in German, awarded with the students best paper award)
 36. Müller-Navarra, S., Jensen, J., Rosenhagen, G., Dangendorf, S. (2013): Rekonstruktion von Gezeiten und Windstau am Pegel Cuxhaven 1843 bis 2013, *Annalen der Meteorologie* (in German)
 37. Dangendorf, S., Wahl, T., Nilson, E., Klein, B., Jensen, J. (2013): A new atmospheric proxy for sea level variability in the south-eastern North Sea: Observations and ensemble projections, *Climate Dynamics*, online first
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38. Dangendorf, S., Wahl, T., Muderbach, C., Jensen, J. (2013): The seasonal cycle of MSL in the south-eastern North Sea, *Journal of Coastal Research*, Special Issue No. 65, pp. 1915-1920, ISSN 0749-0208
39. Wahl, T., Haigh, I.D., Dangendorf, S., Jensen, J. (2013): Inter-annual and long-term mean sea level changes along the North Sea Coastline, *Journal of Coastal Research*, Special Issue No. 65, pp. 1987-1992, ISSN 0749-0208
40. Dangendorf, S., Muderbach, C., Jensen, J., Ganske, A. and Heinrich, H. (2013): Seasonal Forcing of high Sea Level Percentiles in the German Bight throughout the 20th century, *Ocean Dynamics*, 63 (5):533-548
41. Dangendorf, S., Muderbach, C., Wahl, T., Jensen, J. (2013): Characteristics of intra-, inter-annual and decadal variability and the role of meteorological forcing: The long record of Cuxhaven, *Ocean Dynamics*, 63 (2-3):209-224
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Conference contributions (invited talks and keynotes are separated):

Invited Talks and Keynotes:

1. Dangendorf, S. (2020): Persistent acceleration in global mean sea level rise since the 1960s, JPL Earth Science Seminars, NASA-JPL, Pasadena (invited talk)
 2. Dangendorf, S. (2020): What tide gauges can tell us about past sea level changes, Science Friday, Old Dominion University (invited talk)
 3. Dangendorf, S. (2019): Global and regional sea level changes over the instrumental era, IPCC SROCC Workshop on sea level rise, SMHI Norrköpping, Sweden (invited keynote)
 4. Dangendorf, S. (2019): Persistent acceleration in global mean sea level rise since the 1960s, Rossby Guest Seminar, Stockholm University, Sweden (invited talk)
 5. Dangendorf, S. (2018): Andauernde Beschleunigung des globalen Meeresspiegels seit den 1970er Jahren, Meeresspiegelworkshop, Bundesamt für Seeschifffahrt und Hydrographie, Hamburg (invited talk)
 6. Dangendorf S. (2018): Persistent acceleration in global mean sea level rise since the 1970s, Aladyn Workshop Hamburg (invited talk)
 7. Dangendorf, S. (2018): Persistent acceleration in global mean sea level rise since the 1970s, BiSEPPS Seminar, Harvard University, Cambridge, USA (invited talk)
 8. Dangendorf, S. (2018): Progress in reconstructing global and regional sea level changes, PSMSL Sea Level Futures Conference, Liverpool, UK (invited Keynote)
 9. Dangendorf, S. (2018): Räumlich-zeitliche Rekonstruktion des absoluten Meeresspiegels entlang Deutscher Küsten, Hydrologisches Gespräch, Husum, Germany (invited talk)
 10. Dangendorf, S. (2018): Rising sea levels and the special role of polar ice melt, 11th Sino-German Frontiers of Science Symposium 2018 in Shanghai, China, organized by the Humboldt Foundation and the Chinese Academy of Sciences (invited Keynote)
 11. Dangendorf S. (2018): Challenges in estimating 20th century global and regional mean sea level changes, Lunch Talks, Boston College, Boston, USA (invited talk)
 12. Dangendorf S. (2018): Challenges in estimating 20th century global and regional mean sea level changes, Physical Oceanography Seminars, WHOI, Woodswhole, USA (invited talk)
 13. Dangendorf, S. (2017): Die Geometrie des Meeresspiegels, Gastvortrag, CAU Kiel (invited talk)
 14. Dangendorf, S. (2017): Meeresspiegeländerungen in der Ostsee: Erste Ergebnisse aus dem Projekt AMSeL-Ostsee, Hydrologisches Gespräch, Flintbek, Germany (invited talk)
 15. Dangendorf, S. (2017): Neue Erkenntnisse zum globalen und regionalen Meeresspiegel seit 1900: Trends und Budgets, BSH/DWD Tagung, Hamburg, Germany (invited talk)
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16. Dangendorf, S. (2016): A reconciled estimate of 20th century global mean sea level rise, TAOYAKA Seminar, Hiroshima University, Japan (invited talk)
17. Dangendorf, S., Marcos, M. (2016): Revisiting global mean sea level changes from tide gauge records corrected for vertical land motion, EGU, Vienna, Austria (invited talk)
18. Dangendorf, S., Marcos, M., Piecuch, C., Jensen, J. (2015): Detecting anthropogenic footprints in regional and global sea level rise since 1900, AGU, San Francisco, USA (invited talk)
19. Dangendorf, S. (2015): Human influence on sea level rise, IMEDEA, Esporles, Mallorca, Spain (invited talk: <https://www.youtube.com/watch?v=0-dIF-QEC1A>)
20. Dangendorf, S. (2015): Detecting anthropogenic footprints in sea level rise, Climate Change Meeting, Saitama University, Japan (invited keynote)
21. Dangendorf, S., Wahl, T., Arns, A., Jensen, J. (2015): Coastal impacts of sea level change: present day knowledge and future challenges, Ocean Sustainability Symposium Kiel (invited keynote)
22. Dangendorf, S. (2014): Distinguishing external trends from natural variability in Northern European sea levels, University of Reading, Reading, UK (invited talk)
23. Dangendorf, S. (2014): Long-term memory in sea level: diagnostics and implications, Nansen Centre for Remote Sensing, Bergen, Norway (invited talk)
24. Dangendorf, S. (2014): Inter-annual to decadal sea level variability in the North Sea, Nansen Centre for Remote Sensing, Bergen, Norway (invited talk)
25. Dangendorf, S. (2014): Mean sea level variability in the North Sea: processes and implications, KNMI, Utrecht, Netherlands (invited talk)
26. Dangendorf, S. (2014): 170 years of storm activity in the North Sea: observations versus reanalysis, Potsdam Institute for Climate Impact Research, Berlin, Germany (invited talk)
27. Dangendorf, S. Jensen, J. (2014): Inter-annual to decadal sea level variability in the North Sea, Helmholtz-Centre, Geesthacht, Germany (invited talk)

Talks and posters:

1. Dangendorf, S. (2020): Identifying the contributions to 20th century coastal sea level rise, Ocean Sciences Meeting, San Diego, USA (talk)
 2. Dangendorf, S., Hay, C., Calafat, F.M., Marcos, M. (2019): Persistent global sea level rise acceleration since the 1970s, EGU, Vienna, Austria (talk)
 3. Dangendorf, S., Hay, C., Calafat, F.M., Marcos, M. (2018): A hybrid reconstruction of 20th century regional and global sea level change, AGU Fall Meeting, Washington DC, USA (talk)
 4. Dangendorf, S., Marcos, M., Wöppelmann, G., Conrad, C., Frederikse, T., Riva, R.E.M. (2017): A reconciled estimate of 20th century global mean sea-level rise, International WCRP/IOC Conference on Regional Sea Level Changes and Coastal Impacts, New York, USA (poster presentation, awarded with the Outstanding Early Career Poster Award, http://www.sealevel2017.org/index.php?option=com_content&view=article&id=57&Itemid=200)
 5. Arns, A., Dangendorf, S., Jensen, J., Talke, S., Bender, J., Pattiaratchi, C. (2017): Sea-level rise induced amplification of coastal protection design heights, EGU, Vienna, Austria (talk)
 6. Dangendorf, S., Marcos, M., Piecuch, C., Jensen, J. (2016): Spatio-temporal evolution of 20th century regional mean sea level rise, OSTST Meeting, La Rochelle, France (talk)
 7. Dangendorf, S., Arns, A., Pinto, J., Ludwig, P., Jensen, J. (2016): The exceptional influence of storm Xaver on design water levels in the German Bight, EU ECRA workshop, Nansen Centre, Bergen, Norway (talk)
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8. Dangendorf, S., Richter, K., Marzeion, B., Jensen, J. (2016): Intrinsic low-frequency variability in ice sheets, glaciers and ocean dynamics and its relation to the observed 20th century sea level rise, EGU, Vienna, Austria (poster presentation)
 9. Jensen, J., Dangendorf, S., Wahl, T., Niehüser, S. (2016): Revisiting sea level changes in the North Sea during the Anthropocene, EGU, Vienna, Austria (talk)
 10. Marcos, M., Calafat, F., Berihuete, A., Dangendorf, S. (2016): Long term variations in global sea level extremes, EGU, Vienna, Austria (talk)
 11. Niehüser, S., Dangendorf, S., Arns, A., Jensen, J. (2016): A high resolution water level forecast for the German Bight, EGU, Vienna, Austria (poster presentation)
 12. Schmidt, J., Patzke, J., Dangendorf, S., Arns, A., Jensen, J., Fröhle, P. (2016): Mean and extreme sea level changes in the southwestern Baltic Sea, EGU, Vienna, Austria (poster presentation)
 13. Dangendorf, S., Arns, A., Pinto, J., Ludwig, P., Jensen, J. (2015): The exceptional influence of storm Xaver on design water levels in the German Bight, AGU, San Francisco, USA (Poster presentation)
 14. Marcos, M., Calafat, F.M., Berihuete, A., Dangendorf, S. (2015): Time varying trends in sea level extremes, Workshop on Global and Regional Sea Level Variability and Change, Mallorca, Spain (talk)
 15. Dangendorf, S., Marcos, M., Müller, A., Zorita, E., Riva, R.E.M., Berk, K., Jensen, J. (2015): Detecting anthropogenic footprints in sea level rise, Workshop on Global and Regional Sea Level Variability and Change, Mallorca, Spain (talk)
 16. Amiruddin, A.M., Haigh, I.D., Tsimplis, M.N., Calafat, F.M., Dangendorf, S. (2015): The seasonal cycle and variability of sea level in the South China Sea Workshop on Global and Regional Sea Level Variability and Change, Mallorca, Spain (poster presentation)
 17. Dangendorf, S., Calafat, F.M., Nilsen, J.E.Ø., Richter, K., Jensen, J. (2015): Mechanisms of long-term mean sea level variability in the North Sea, EGU, Vienna, Austria (poster presentation, awarded with the Outstanding Student Best Paper Award)
 18. Amiruddin, A.M., Haigh, I.D., Tsimplis, M.N., Calafat, F.M., Dangendorf, S. (2015): The seasonal cycle and variability of sea level in the South China Sea, EGU, Vienna, Austria (poster presentation)
 19. Niehüser, S., Jensen, J., Wahl, T., Dangendorf, S., Hofstede, J. (2015): The role of vertical land movements on the late 19th century sea level rise at Cuxhaven, Germany, EGU, Vienna, Austria (poster presentation)
 20. Schenk, F., Dangendorf, S., Zorita, E. (2015): Northern European storminess since 1850, EGU, Vienna, Austria (talk)
 21. Dangendorf, S., Woodworth, P.L., Wöppelmann, G., Pinto, J., Niehüser, S., Jensen, J. (2015): Northern European storm surge climate since the 18th century, EGU, Vienna, Austria (poster presentation)
 22. Dangendorf, S., Marcos, M., Müller, A., Zorita, E., Riva, R.E.M., Berk, K., Jensen, J. (2015): Detecting anthropogenic footprints in sea level rise, EGU, Vienna, Austria (talk)
 23. Dangendorf, S., Marcos, M., Müller, A., Zorita, E., Riva, R.E.M., Jensen, J. (2015): Detecting anthropogenic footprints in sea level rise, UK Sea Level Science Meeting (in honors to P.L. Woodworth), UK (talk)
 24. Amiruddin, A.M., Haigh, I.D., Tsimplis, M.N., Calafat, F.M., Dangendorf, S. (2015): Interannual and long-term changes of sea level in the South China Sea, UK Sea Level Science Meeting (in honors to P.L. Woodworth), UK (poster presentation)
 25. Dangendorf, S., Arns, A., and Jensen, J. (2014): Mechanisms of inter-annual to multi-decadal sea level variability in the North Sea, REKLIM conference, Berlin, Germany (accepted presentation)
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26. Dangendorf, S., Jensen, J. (2014): Inter-annual to multi-decadal sea level variations in the North Sea and their implications for coastal safety management, ICCE, Seoul, Korea (talk)
 27. Dangendorf, S., Jensen, J. (2014): North Sea storminess from a novel storm surge record since AD 1843, High Impact Events and Climate Change Workshop, Copenhagen, Denmark (talk)
 28. Dangendorf, S., Müller-Navarra, S., Jensen, J., Schenk, F., Wahl, T., Weisse, R. (2014): North Sea storminess from a novel storm surge record since AD 1843, EGU, Vienna, Austria (talk)
 29. Dangendorf, S., Wahl, T., Nilson, E., Klein, B., Jensen, J. (2014): A new atmospheric proxy for sea level variability in the south-eastern North Sea: Observations and ensemble projections, EGU, Vienna, Austria (poster presentation)
 30. Dangendorf, S., Wahl, T., Arns, A., Jensen, J. (2013): North Sea sea level rise and the role of inter-annual to multi-decadal variability since the late 19th century, AGU, San Francisco, USA (poster presentation)
 31. Dangendorf, S., Wahl, T., Nilson, E., Klein, B., Jensen, J. (2013): A new atmospheric proxy for sea level variability in the south-eastern North Sea: Observations and ensemble projections, High End Sea Level Rise Workshop in Hamburg (talk)
 32. Dangendorf, S., Wahl, T., Jensen, J. (2013): Monthly to Multi-Decadal Sea Level Variations from tide gauges in the German Bight from the mid-19th century to present, IAHS-IAPSO-IASPEI 2013, Göteborg, (talk)
 33. Dangendorf, S., Wahl, T., Jensen, J. (2013): Monthly to Multi-Decadal Sea Level Variations in the German Bight during the past two centuries, ICWRER 2013, Koblenz, (talk)
 34. Dangendorf, S., Wahl, T., Mudersbach, C., Jensen, J. (2013): The seasonal cycle of MSL in the south-eastern North Sea (Abstract), 12th International Coastal Symposium, Plymouth, UK (talk)
 35. Dangendorf, S., Mudersbach, C., Jensen, J. (2013): Are regional projections of extreme sea levels based on uncertain future MSL scenarios reliable? A case study for the southeastern North Sea, AGU, San Francisco, USA (poster presentation)
 36. Jensen, J., Dangendorf, S., Mudersbach, C. (2012): Effects of seasonal MSL variability on extreme sea level in the German Bight (Abstract), Tenth International Conference on Hydroscience & Engineering 2012, Orlando, USA, (talk)
 37. Mudersbach, Ch., Wahl, T., Dangendorf, S. and Jensen, J. (2012): Trends in extreme high sea levels and implications for coastal flood risk management (Abstract), European Conference on Floodrisk Management, Rotterdam, The Netherlands, (talk)
 38. Jensen, J., Dangendorf, S., Arns, A. (2012): How does seasonal mean sea level affect extreme sea levels in the German Bight?, Proceedings of the 33rd International Conference on Coastal Engineering, Santander, Spain, 2012
 39. Mudersbach, Ch., Dangendorf, S., Wahl, T., and Jensen, J. (2012): Trends in sea level percentiles along the German North Sea coastline compared to regional mean sea level changes (Abstract), EGU General Assembly 2012, Vienna, Austria
 40. Dangendorf, S., Mudersbach, C., Wahl, T., Jensen, J. (2012): Meteorological forcing of the annual MSL cycle and its impacts on flood risk in the German Bight, Geophysical Research Abstracts, Vol. 14, EGU General Assembly 2012, Vienna, Austria, 2012
 41. Dangendorf, S., Jensen, J., Niehüser, S. (2012): On detecting anthropogenic change points in sea level quantiles of mesotidal areas - Application to the German Bight, Geophysical Research Abstracts, Vol. 14, EGU General Assembly 2012, Vienna, Austria
 42. Dangendorf, S., Jensen, J. (2011): Changing North Atlantic Oscillation and its influence on seasonality of Mean Sea Level in the German Bight, 2. CoastDoc-Seminar 2011, Braunschweig, Germany
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43. Dangendorf, S., Jensen, J. (2011): Methods to detect change points in water level time series – Application to the German Bight, 5th International Short Conference on Applied Coastal Research, Aachen
44. Dangendorf, S., Jensen J. (2010): Untersuchungen zur Detektion von Instationaritäten in küstenhydrologischen Zeitreihen, 1. CoastDoc-Seminar, In: Mitteilungen des Forschungsinstituts Wasser und Umwelt, Heft 2, ISSN 1868-6613

Other Information

Languages: German (mother tongue), English, 9 years studied, fluent
Software Skills: MATLAB, R, Microsoft Office

