

Ralf Weisse

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

3,229
citations

186265

28
h-index

168389

53
g-index

88
all docs

88
docs citations

88
times ranked

3354
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Storminess over the North Atlantic and northwestern Europeâ€”A review. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 350-382. | 2.7 | 219 |
| 2 | Climate change and North Sea storm surge extremes: an ensemble study of storm surge extremes expected in a changed climate projected by four different regional climate models. Ocean Dynamics, 2006, 56, 3-15. | 2.2 | 179 |
| 3 | Exploring high-end scenarios for local sea level rise to develop flood protection strategies for a low-lying deltaâ€”the Netherlands as an example. Climatic Change, 2011, 109, 617-645. | 3.6 | 166 |
| 4 | Climate change impact on extreme wave conditions in the North Sea: an ensemble study. Ocean Dynamics, 2008, 58, 199-212. | 2.2 | 145 |
| 5 | Projection of Global Wave Climate Change toward the End of the Twenty-First Century. Journal of Climate, 2012, 26, 8269-8288. | 3.2 | 144 |
| 6 | Observed mean sea level changes around the North Sea coastline from 1800 to present. Earth-Science Reviews, 2013, 124, 51-67. | 9.1 | 130 |
| 7 | Inconsistencies between Long-Term Trends in Storminess Derived from the 20CR Reanalysis and Observations. Journal of Climate, 2013, 26, 868-874. | 3.2 | 114 |
| 8 | Northeast Atlantic and North Sea Storminess as Simulated by a Regional Climate Model during 1958â€”2001 and Comparison with Observations. Journal of Climate, 2005, 18, 465-479. | 3.2 | 110 |
| 9 | Multi-decadal atmospheric modeling for Europe yields multi-purpose data. Eos, 2001, 82, 305-305. | 0.1 | 105 |
| 10 | Changing extreme sea levels along European coasts. Coastal Engineering, 2014, 87, 4-14. | 4.0 | 102 |
| 11 | The North Sea â€” A shelf sea in the Anthropocene. Journal of Marine Systems, 2015, 141, 18-33. | 2.1 | 99 |
| 12 | Regional Meteorologicalâ€”Marine Reanalyses and Climate Change Projections. Bulletin of the American Meteorological Society, 2009, 90, 849-860. | 3.3 | 98 |
| 13 | Impact Forecasting to Support Emergency Management of Natural Hazards. Reviews of Geophysics, 2020, 58, e2020RG000704. | 23.0 | 93 |
| 14 | Changing North Sea storm surge climate: An increasing hazard?. Ocean and Coastal Management, 2012, 68, 58-68. | 4.4 | 89 |
| 15 | Advancing Wind-Waves Climate Science. Bulletin of the American Meteorological Society, 2012, 93, 791-796. | 3.3 | 88 |
| 16 | Wave climate and long-term changes for the Southern North Sea obtained from a high-resolution hindcast 1958â€”2002. Ocean Dynamics, 2007, 57, 161-172. | 2.2 | 85 |
| 17 | A 40 Year Hindcast of Wind, Sea Level and Waves in European Waters. , 2002, , 669. | | 75 |
| 18 | Evaluation of a method to reduce uncertainty in wind hindcasts performed with regional atmosphere models. Coastal Engineering, 2003, 48, 211-225. | 4.0 | 75 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Climate change in the Baltic Sea region: a summary. <i>Earth System Dynamics</i> , 2022, 13, 457-593. | 7.1 | 75 |
| 20 | North Sea Storminess from a Novel Storm Surge Record since AD 1843*. <i>Journal of Climate</i> , 2014, 27, 3582-3595. | 3.2 | 60 |
| 21 | Storm-related sea level variations along the North Sea coast as simulated by a high-resolution model 1958–2002. <i>Ocean Dynamics</i> , 2006, 56, 16-25. | 2.2 | 59 |
| 22 | Assessment of Value Added for Surface Marine Wind Speed Obtained from Two Regional Climate Models. <i>Monthly Weather Review</i> , 2009, 137, 2955-2965. | 1.4 | 59 |
| 23 | Sensitivity of a Regional Atmospheric Model to a Sea State–Dependent Roughness and the Need for Ensemble Calculations. <i>Monthly Weather Review</i> , 2000, 128, 3631-3642. | 1.4 | 57 |
| 24 | Decadal variability of the North Atlantic in an ocean general circulation model. <i>Journal of Geophysical Research</i> , 1994, 99, 12411. | 3.3 | 55 |
| 25 | Using QuikSCAT in the added value assessment of dynamically downscaled wind speed. <i>International Journal of Climatology</i> , 2011, 31, 1028-1039. | 3.5 | 51 |
| 26 | Sea level dynamics and coastal erosion in the Baltic Sea region. <i>Earth System Dynamics</i> , 2021, 12, 871-898. | 7.1 | 42 |
| 27 | Marine Climate and Climate Change. , 2010, , . | | 40 |
| 28 | Wave climate in the Arkona Basin, the Baltic Sea. <i>Ocean Science</i> , 2012, 8, 287-300. | 3.4 | 39 |
| 29 | Thermodynamic variability and change in the North Sea (1948–2007) derived from a multidecadal hindcast. <i>Journal of Marine Systems</i> , 2011, 86, 35-44. | 2.1 | 36 |
| 30 | Assessing changes in extreme sea levels along the coast of China. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 8039-8051. | 2.6 | 30 |
| 31 | Climate change impact on North Sea wave conditions: a consistent analysis of ten projections. <i>Ocean Dynamics</i> , 2015, 65, 255-267. | 2.2 | 29 |
| 32 | Climate services for marine applications in Europe. <i>Earth Perspectives – Transdisciplinarity Enabled</i> , 2015, 2, . | 1.4 | 29 |
| 33 | Determining sea level change in the German Bight. <i>Ocean Dynamics</i> , 2011, 61, 2037-2050. | 2.2 | 28 |
| 34 | Stochastically forced variability in the Antarctic Circumpolar Current. <i>Journal of Geophysical Research</i> , 1999, 104, 11049-11064. | 3.3 | 26 |
| 35 | Estimating near-shore wave statistics from regional hindcasts using downscaling techniques. <i>Ocean Dynamics</i> , 2006, 56, 26-35. | 2.2 | 26 |
| 36 | Climatology of North Sea wind energy derived from a model hindcast for 1958–2012. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 147, 18-29. | 3.9 | 26 |

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|----|--|-----|-----------|
| 37 | Comparison of HOAPS, QuikSCAT, and Buoy Wind Speed in the Eastern North Atlantic and the North Sea. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 338-348. | 6.3 | 22 |
| 38 | Past and Current Climate Change. , 2008, , 35-131. | | 21 |
| 39 | Making coastal research useful – cases from practice. <i>Oceanologia</i> , 2015, 57, 3-16. | 2.2 | 21 |
| 40 | Northeast Atlantic Storm Activity and Its Uncertainty from the Late Nineteenth to the Twenty-First Century. <i>Journal of Climate</i> , 2019, 32, 1919-1931. | 3.2 | 20 |
| 41 | A multi-decadal wind-wave hindcast for the North Sea 1949–2014: coastDat2. <i>Earth System Science Data</i> , 2017, 9, 955-968. | 9.9 | 19 |
| 42 | Sea State, Tides. , 0, , 143-198. | | 17 |
| 43 | A statistical analysis of rogue waves in the southern North Sea. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 2665-2680. | 3.6 | 15 |
| 44 | Regional storm climate and related marine hazards in the Northeast Atlantic. , 0, , 54-73. | | 12 |
| 45 | Pressure effects on past regional sea level trends and variability in the German Bight. <i>Ocean Dynamics</i> , 2012, 62, 1169-1186. | 2.2 | 12 |
| 46 | Changes of storm surges in the Bohai Sea derived from a numerical model simulation, 1961–2006. <i>Ocean Dynamics</i> , 2016, 66, 1301-1315. | 2.2 | 11 |
| 47 | Identification of extreme storm surges with high-impact potential along the German North Sea coastline. <i>Ocean Dynamics</i> , 2018, 68, 1371-1382. | 2.2 | 11 |
| 48 | Reconstruction of potential evaporation for water balance studies. <i>Climate Research</i> , 2001, 16, 123-131. | 1.1 | 11 |
| 49 | Determination of high-frequency wind variability from observations and application to North Atlantic wave modeling. <i>Journal of Geophysical Research</i> , 2000, 105, 26179-26190. | 3.3 | 10 |
| 50 | Baltic Sea extreme sea levels 1948-2011: Contributions from atmospheric forcing. <i>Procedia IUTAM</i> , 2017, 25, 65-69. | 1.2 | 10 |
| 51 | The Effect of Different Sea-State-Dependent Roughness Parameterizations on the Sensitivity of the Atmospheric Circulation in a Regional Model. <i>Monthly Weather Review</i> , 2002, 130, 1593-1600. | 1.4 | 9 |
| 52 | Recent Change–North Sea. <i>Regional Climate Studies</i> , 2016, , 85-136. | 1.2 | 9 |
| 53 | Long-term statistics of potentially hazardous sea states in the North Sea 1958–2014. <i>Ocean Dynamics</i> , 2018, 68, 1559-1570. | 2.2 | 8 |
| 54 | Past and future changes in wind, wave, and storm surge climates. , 2010, , 165-203. | | 8 |

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|----|--|-----|-----------|
| 55 | German Bight storm activity, 1897â€“2018. International Journal of Climatology, 2021, 41, E2159. | 3.5 | 7 |
| 56 | Developing a Holistic Approach to Assessing and Managing Coastal Flood Risk. , 2015, , 9-53. | | 6 |
| 57 | Comment on "Improved global maps and 54-year history of wind-work on ocean inertial motions" by M. H. Alford. Geophysical Research Letters, 2003, 30, . | 4.0 | 5 |
| 58 | Case Studies Worldwide. , 2015, , 325-628. | | 4 |
| 59 | Still normal? Near-real-time evaluation of storm surge events in the context of climate change. Natural Hazards and Earth System Sciences, 2022, 22, 97-116. | 3.6 | 3 |
| 60 | Pressure effects on regional mean sea level trends in the German Bight in the twenty-first century. Ocean Dynamics, 2014, 64, 633-642. | 2.2 | 1 |
| 61 | Climate and climate variability. , 2010, , 1-25. | | 1 |
| 62 | Marine weather phenomena. , 2010, , 27-76. | | 1 |
| 63 | Meeresspiegelanstieg, Gezeiten, Sturmfluten und Seegang. , 2017, , 77-85. | | 1 |
| 64 | Reconstructions of marine environmental conditions and scenarios for future changes. WMU Journal of Maritime Affairs, 2007, 6, 183-191. | 2.7 | 0 |
| 65 | How to determine long-term changes in marine climate. , 2010, , 113-163. | | 0 |
| 66 | Models for the marine environment. , 2010, , 77-111. | | 0 |