

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	Still normal? Near-real-time evaluation of storm surge events in the context of climate change. <i>Natural Hazards and Earth System Sciences</i> , 2022, 22, 97-116.	3.6	3
2	Climate change in the Baltic Sea region: a summary. <i>Earth System Dynamics</i> , 2022, 13, 457-593.	7.1	75
3	German Bight storm activity, 1897â€“2018. <i>International Journal of Climatology</i> , 2021, 41, E2159.	3.5	7
4	Sea level dynamics and coastal erosion in the Baltic Sea region. <i>Earth System Dynamics</i> , 2021, 12, 871-898.	7.1	42
5	Impact Forecasting to Support Emergency Management of Natural Hazards. <i>Reviews of Geophysics</i> , 2020, 58, e2020RG000704.	23.0	93
6	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
7	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
8	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
9	Long-term statistics of potentially hazardous sea states in the North Sea 1958â€“2014. <i>Ocean Dynamics</i> , 2018, 68, 1559-1570.	2.2	8
10	Baltic Sea extreme sea levels 1948-2011: Contributions from atmospheric forcing. <i>Procedia IUTAM</i> , 2017, 25, 65-69.	1.2	10
11	A multi-decadal wind-wave hindcast for the North Sea 1949â€“2014: coastDat2. <i>Earth System Science Data</i> , 2017, 9, 955-968.	9.9	19
12	Meeresspiegelanstieg, Gezeiten, Sturmfluten und Seegang. , 2017, , 77-85.		1
13	Changes of storm surges in the Bohai Sea derived from a numerical model simulation, 1961â€“2006. <i>Ocean Dynamics</i> , 2016, 66, 1301-1315.	2.2	11
14	Recent Changeâ€”North Sea. <i>Regional Climate Studies</i> , 2016, , 85-136.	1.2	9
15	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
16	Climatology of North Sea wind energy derived from a model hindcast for 1958â€“2012. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 147, 18-29.	3.9	26
17	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
18	Making coastal research useful â€” cases from practice. <i>Oceanologia</i> , 2015, 57, 3-16.	2.2	21

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19	Climate services for marine applications in Europe. <i>Earth Perspectives – Transdisciplinarity Enabled</i> , 2015, 2, .	1.4	29
20	<i>Case Studies Worldwide</i> . , 2015, , 325-628.		4
21	The North Sea – A shelf sea in the Anthropocene. <i>Journal of Marine Systems</i> , 2015, 141, 18-33.	2.1	99
22	Storminess over the North Atlantic and northwestern Europe – A review. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 350-382.	2.7	219
23	Developing a Holistic Approach to Assessing and Managing Coastal Flood Risk. , 2015, , 9-53.		6
24	North Sea Storminess from a Novel Storm Surge Record since AD 1843*. <i>Journal of Climate</i> , 2014, 27, 3582-3595.	3.2	60
25	Changing extreme sea levels along European coasts. <i>Coastal Engineering</i> , 2014, 87, 4-14.	4.0	102
26	Pressure effects on regional mean sea level trends in the German Bight in the twenty-first century. <i>Ocean Dynamics</i> , 2014, 64, 633-642.	2.2	1
27	Observed mean sea level changes around the North Sea coastline from 1800 to present. <i>Earth-Science Reviews</i> , 2013, 124, 51-67.	9.1	130
28	Inconsistencies between Long-Term Trends in Storminess Derived from the 20CR Reanalysis and Observations. <i>Journal of Climate</i> , 2013, 26, 868-874.	3.2	114
29	Advancing Wind-Waves Climate Science. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 791-796.	3.3	88
30	Projection of Global Wave Climate Change toward the End of the Twenty-First Century. <i>Journal of Climate</i> , 2012, 26, 8269-8288.	3.2	144
31	Changing North Sea storm surge climate: An increasing hazard?. <i>Ocean and Coastal Management</i> , 2012, 68, 58-68.	4.4	89
32	Wave climate in the Arkona Basin, the Baltic Sea. <i>Ocean Science</i> , 2012, 8, 287-300.	3.4	39
33	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
34	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
35	Exploring high-end scenarios for local sea level rise to develop flood protection strategies for a low-lying delta – the Netherlands as an example. <i>Climatic Change</i> , 2011, 109, 617-645.	3.6	166
36	Determining sea level change in the German Bight. <i>Ocean Dynamics</i> , 2011, 61, 2037-2050.	2.2	28

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37	Using QuikSCAT in the added value assessment of dynamically downscaled wind speed. International Journal of Climatology, 2011, 31, 1028-1039.	3.5	51
38	Marine Climate and Climate Change. , 2010, , .		40
39	Comparison of HOAPS, QuikSCAT, and Buoy Wind Speed in the Eastern North Atlantic and the North Sea. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 338-348.	6.3	22
40	Climate and climate variability. , 2010, , 1-25.		1
41	Marine weather phenomena. , 2010, , 27-76.		1
42	Past and future changes in wind, wave, and storm surge climates. , 2010, , 165-203.		8
43	How to determine long-term changes in marine climate. , 2010, , 113-163.		0
44	Models for the marine environment. , 2010, , 77-111.		0
45	Regional Meteorologicalâ€œMarine Reanalyses and Climate Change Projections. Bulletin of the American Meteorological Society, 2009, 90, 849-860.	3.3	98
46	Assessment of Value Added for Surface Marine Wind Speed Obtained from Two Regional Climate Models. Monthly Weather Review, 2009, 137, 2955-2965.	1.4	59
47	Climate change impact on extreme wave conditions in the North Sea: an ensemble study. Ocean Dynamics, 2008, 58, 199-212.	2.2	145
48	Past and Current Climate Change. , 2008, , 35-131.		21
49	Reconstructions of marine environmental conditions and scenarios for future changes. WMU Journal of Maritime Affairs, 2007, 6, 183-191.	2.7	0
50	Wave climate and long-term changes for the Southern North Sea obtained from a high-resolution hindcast 1958â€œ2002. Ocean Dynamics, 2007, 57, 161-172.	2.2	85
51	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
52	Storm-related sea level variations along the North Sea coast as simulated by a high-resolution model 1958â€œ2002. Ocean Dynamics, 2006, 56, 16-25.	2.2	59
53	Estimating near-shore wave statistics from regional hindcasts using downscaling techniques. Ocean Dynamics, 2006, 56, 26-35.	2.2	26
54	Northeast Atlantic and North Sea Storminess as Simulated by a Regional Climate Model during 1958â€œ2001 and Comparison with Observations. Journal of Climate, 2005, 18, 465-479.	3.2	110

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55	Evaluation of a method to reduce uncertainty in wind hindcasts performed with regional atmosphere models. <i>Coastal Engineering</i> , 2003, 48, 211-225.	4.0	75
56	Comment on "Improved global maps and 54-year history of wind-work on ocean inertial motions" by M. H. Alford. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	5
57	A 40 Year Hindcast of Wind, Sea Level and Waves in European Waters. , 2002, , 669.		75
58	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
59	Multi-decadal atmospheric modeling for Europe yields multi-purpose data. <i>Eos</i> , 2001, 82, 305-305.	0.1	105
60	Reconstruction of potential evaporation for water balance studies. <i>Climate Research</i> , 2001, 16, 123-131.	1.1	11
61	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
62	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
63	Stochastically forced variability in the Antarctic Circumpolar Current. <i>Journal of Geophysical Research</i> , 1999, 104, 11049-11064.	3.3	26
64	Decadal variability of the North Atlantic in an ocean general circulation model. <i>Journal of Geophysical Research</i> , 1994, 99, 12411.	3.3	55
65	Regional storm climate and related marine hazards in the Northeast Atlantic. , 0, , 54-73.		12
66	Sea State, Tides. , 0, , 143-198.		17