

# Wilco Hazeleger

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102  
papers

5,353  
citations

39  
h-index

71  
g-index

109  
ext. papers

6,038  
ext. citations

5.1  
avg. IF

5.71  
L-index

#	Paper	IF	Citations
102	Anomalous moisture sources of the Rhine basin during the extremely dry summers of 2003 and 2018. <i>Weather and Climate Extremes</i> , <b>2021</b> , 31, 100302	6	1
101	Characterisation of Atlantic meridional overturning hysteresis using Langevin dynamics. <i>Earth System Dynamics</i> , <b>2021</b> , 12, 69-81	4.8	
100	Event-Based Storylines to Address Climate Risk. <i>Earth's Future</i> , <b>2021</b> , 9, e2020EF001783	7.9	19
99	The role of spatial and temporal model resolution in a flood event storyline approach in western Norway. <i>Weather and Climate Extremes</i> , <b>2020</b> , 29, 100259	6	12
98	The effect of vertical ocean mixing on the tropical Atlantic in a coupled global climate model. <i>Climate Dynamics</i> , <b>2020</b> , 54, 5089-5109	4.2	6
97	Effective resolution in high resolution global atmospheric models for climate studies. <i>Atmospheric Science Letters</i> , <b>2020</b> , 21, e952	2.4	20
96	The Southeastern Tropical Atlantic SST Bias Investigated with a Coupled Atmosphere-Ocean Single-Column Model at a PIRATA Mooring Site. <i>Journal of Climate</i> , <b>2020</b> , 33, 6255-6271	4.4	3
95	Synthesis and evaluation of historical meridional heat transport from midlatitudes towards the Arctic. <i>Earth System Dynamics</i> , <b>2020</b> , 11, 77-96	4.8	1
94	Atmosphere-Ocean Interactions and Their Footprint on Heat Transport Variability in the Northern Hemisphere. <i>Journal of Climate</i> , <b>2020</b> , 33, 3691-3710	4.4	0
93	Open weather and climate science in the digital era. <i>Geoscience Communication</i> , <b>2020</b> , 3, 191-201	0.7	2
92	Advancing Research for Seamless Earth System Prediction. <i>Bulletin of the American Meteorological Society</i> , <b>2020</b> , 101, E23-E35	6.1	9
91	Decline in Terrestrial Moisture Sources of the Mississippi River Basin in a Future Climate. <i>Journal of Hydrometeorology</i> , <b>2020</b> , 21, 299-316	3.7	4
90	State of the Climate in 2018. <i>Bulletin of the American Meteorological Society</i> , <b>2019</b> , 100, Si-S306	6.1	111
89	The benefits of spatial resolution increase in global simulations of the hydrological cycle evaluated for the Rhine and Mississippi basins. <i>Hydrology and Earth System Sciences</i> , <b>2019</b> , 23, 1779-1800	5.5	8
88	Role of wind stress in driving SST biases in the Tropical Atlantic. <i>Climate Dynamics</i> , <b>2019</b> , 53, 3481-3504	4.2	22
87	Oceanic heat transport into the Arctic under high and low (hbox {CO}_2) forcing. <i>Climate Dynamics</i> , <b>2019</b> , 53, 4763-4780	4.2	12
86	Future equivalent of 2010 Russian heatwave intensified by weakening soil moisture constraints. <i>Nature Climate Change</i> , <b>2018</b> , 8, 381-385	21.4	43

85	An EC-Earth coupled atmosphere-ocean single-column model (AOSCM.v1_EC-Earth3) for studying coupled marine and polar processes. <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 4117-4137	6.3	7
84	eScience development and experiences in The Netherlands. <i>Informatik-Spektrum</i> , <b>2018</b> , 41, 405-413	0.3	
83	An EC-Earth coupled atmosphere-ocean single-column model (AOSCM) for studying coupled marine and polar processes <b>2018</b> ,		2
82	Arctic decadal variability in a warming world. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 5677-5696	4.4	13
81	Time-Dependent Variations in the Arctic's Surface Albedo Feedback and the Link to Seasonality in Sea Ice. <i>Journal of Climate</i> , <b>2017</b> , 30, 393-410	4.4	18
80	The Bjerknes feedback in the tropical Atlantic in CMIP5 models. <i>Climate Dynamics</i> , <b>2016</b> , 47, 2691-2707	4.2	41
79	Low-frequency variability of surface air temperature over the Barents Sea: causes and mechanisms. <i>Climate Dynamics</i> , <b>2016</b> , 47, 1247-1262	4.2	9
78	Global and regional climate impacts of future aerosol mitigation in an RCP6.0-like scenario in EC-Earth. <i>Climatic Change</i> , <b>2016</b> , 134, 1-14	4.5	10
77	High Resolution Model Intercomparison Project (HighResMIPv1.0) for CMIP6. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 4185-4208	6.3	396
76	Skill improvement of dynamical seasonal Arctic sea ice forecasts. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5124-5132	4.9	16
75	Impact of Initial Conditions versus External Forcing in Decadal Climate Predictions: A Sensitivity Experiment*. <i>Journal of Climate</i> , <b>2015</b> , 28, 4454-4470	4.4	19
74	Resolution dependence of circulation forced future central European summer drying. <i>Environmental Research Letters</i> , <b>2015</b> , 10, 055002	6.2	14
73	Resolution Dependence of European Precipitation in a State-of-the-Art Atmospheric General Circulation Model. <i>Journal of Climate</i> , <b>2015</b> , 28, 5134-5149	4.4	23
72	Global impacts of surface ozone changes on crop yields and land use. <i>Atmospheric Environment</i> , <b>2015</b> , 106, 11-23	5.3	49
71	Tales of future weather. <i>Nature Climate Change</i> , <b>2015</b> , 5, 107-113	21.4	92
70	Adaptation to extreme weather: identifying different societal perspectives in the Netherlands. <i>Regional Environmental Change</i> , <b>2014</b> , 14, 91-101	4.3	23
69	Simulation of tropospheric chemistry and aerosols with the climate model EC-Earth. <i>Geoscientific Model Development</i> , <b>2014</b> , 7, 2435-2475	6.3	39
68	The future of Antarctica's surface winds simulated by a high-resolution global climate model: 1. Model description and validation. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 7136-7159	4.4	13

67	Contribution of Dynamic Vegetation Phenology to Decadal Climate Predictability. <i>Journal of Climate</i> , <b>2014</b> , 27, 8563-8577	4.4	18
66	Drivers of mean climate change around the Netherlands derived from CMIP5. <i>Climate Dynamics</i> , <b>2014</b> , 42, 1683-1697	4.2	17
65	Atmospheric blocking and its relation to jet changes in a future climate. <i>Climate Dynamics</i> , <b>2013</b> , 41, 2643-2654	3.7	9
64	Real-time multi-model decadal climate predictions. <i>Climate Dynamics</i> , <b>2013</b> , 41, 2875-2888	4.2	85
63	On the future reduction of snowfall in western and central Europe. <i>Climate Dynamics</i> , <b>2013</b> , 41, 2319-2330	3.0	9
62	Implications of alternative assumptions regarding future air pollution control in scenarios similar to the Representative Concentration Pathways. <i>Atmospheric Environment</i> , <b>2013</b> , 79, 787-801	5.3	18
61	SST and circulation trend biases cause an underestimation of European precipitation trends. <i>Climate Dynamics</i> , <b>2013</b> , 40, 1-20	4.2	58
60	Drivers of North Atlantic Oscillation Events. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , <b>2013</b> , 65, 19741	2	3
59	Evaluation of modeled changes in extreme precipitation in Europe and the Rhine basin. <i>Environmental Research Letters</i> , <b>2013</b> , 8, 014053	6.2	14
58	Multiyear climate predictions using two initialization strategies. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 1794-1798	4.9	57
57	Multiyear predictability of the North Atlantic subpolar gyre. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 3080-3084	4.9	14
56	More hurricanes to hit western Europe due to global warming. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 1783-1788	4.9	88
55	Predicting multiyear North Atlantic Ocean variability. <i>Journal of Geophysical Research: Oceans</i> , <b>2013</b> , 118, 1087-1098	3.3	35
54	Waveguidability of idealized jets. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 10432-10440	4.0	29
53	The simultaneous occurrence of surge and discharge extremes for the Rhine delta. <i>Natural Hazards and Earth System Sciences</i> , <b>2013</b> , 13, 2017-2029	3.9	57
52	EC-Earth V2.2: description and validation of a new seamless earth system prediction model. <i>Climate Dynamics</i> , <b>2012</b> , 39, 2611-2629	4.2	422
51	Boundary layer stability and Arctic climate change: a feedback study using EC-Earth. <i>Climate Dynamics</i> , <b>2012</b> , 39, 2659-2673	4.2	39
50	Interdecadal North-Atlantic meridional overturning circulation variability in EC-EARTH. <i>Climate Dynamics</i> , <b>2012</b> , 39, 2695-2712	4.2	25

49	Impact of vegetation variability on potential predictability and skill of EC-Earth simulations. <i>Climate Dynamics</i> , <b>2012</b> , 39, 2733-2746	4.2	23
48	Western European cold spells in current and future climate. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.3	50
47	Decadal prediction skill in a multi-model ensemble. <i>Climate Dynamics</i> , <b>2012</b> , 38, 1263-1280	4.2	161
46	A comprehensive view on climate change: coupling of earth system and integrated assessment models. <i>Environmental Research Letters</i> , <b>2012</b> , 7, 024012	6.2	57
45	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> , <b>2011</b> , 109, 617-645	4.5	140
44	Impacts of interruption of the Agulhas leakage on the tropical Atlantic in coupled ocean-atmosphere simulations. <i>Climate Dynamics</i> , <b>2011</b> , 36, 989-1003	4.2	25
43	Greenland's contribution to global sea-level rise by the end of the 21st century. <i>Climate Dynamics</i> , <b>2011</b> , 37, 1427-1442	4.2	53
42	A dampened land use change climate response towards the tropics. <i>Climate Dynamics</i> , <b>2011</b> , 37, 2035-2043	4.3	27
41	Arctic winter warming amplified by the thermal inversion and consequent low infrared cooling to space. <i>Nature Geoscience</i> , <b>2011</b> , 4, 758-761	18.3	122
40	Robust assessment of future changes in extreme precipitation over the Rhine basin using a GCM. <i>Hydrology and Earth System Sciences</i> , <b>2011</b> , 15, 1157-1166	5.5	14
39	EC-Earth. <i>Bulletin of the American Meteorological Society</i> , <b>2010</b> , 91, 1357-1364	6.1	387
38	Response of the Western European climate to a collapse of the thermohaline circulation. <i>Climate Dynamics</i> , <b>2010</b> , 34, 689-697	4.2	18
37	Simulations of Hydrographic Properties in the Northwestern North Atlantic Ocean in Coupled Climate Models. <i>Journal of Climate</i> , <b>2009</b> , 22, 1767-1786	4.4	16
36	Coordinated Ocean-ice Reference Experiments (COREs). <i>Ocean Modelling</i> , <b>2009</b> , 26, 1-46	3	498
35	Drier Mediterranean soils due to greenhouse warming bring easterly winds over summertime central Europe. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	53
34	Western Europe is warming much faster than expected. <i>Climate of the Past</i> , <b>2009</b> , 5, 1-12	3.9	209
33	Oceanic link between abrupt changes in the North Atlantic Ocean and the African monsoon. <i>Nature Geoscience</i> , <b>2008</b> , 1, 444-448	18.3	121
32	Ocean and Climate Studies: Linking Physical, Biogeochemical, and Ecosystems Research: Climate Driving of Marine Ecosystem Changes (CLIMECO): Training for Young Marine Scientists; Brest, France, 21-24 April 2008. <i>Eos</i> , <b>2008</b> , 89, 227-227	1.5	

31	When can we expect extremely high surface temperatures?. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	144
30	Influence of the Meridional Overturning Circulation on Tropical Atlantic Climate and Variability. <i>Journal of Climate</i> , <b>2008</b> , 21, 1403-1416	4.4	28
29	Climate scenarios of sea level rise for the northeast Atlantic Ocean: a study including the effects of ocean dynamics and gravity changes induced by ice melt. <i>Climatic Change</i> , <b>2008</b> , 91, 351-374	4.5	65
28	Future changes in internal variability of the Atlantic Meridional Overturning Circulation. <i>Climate Dynamics</i> , <b>2008</b> , 30, 407-419	4.2	15
27	A recipe for simulating the interannual variability of the Asian summer monsoon and its relation with ENSO. <i>Climate Dynamics</i> , <b>2007</b> , 28, 441-460	4.2	35
26	On the robustness of ENSO teleconnections. <i>Climate Dynamics</i> , <b>2007</b> , 29, 469-485	4.2	61
25	Bjerknes Compensation at High Northern Latitudes: The Ocean Forcing the Atmosphere. <i>Journal of Climate</i> , <b>2007</b> , 20, 6023-6032	4.4	52
24	Extratropical Atmospheric Response to Equatorial Atlantic Cold Tongue Anomalies. <i>Journal of Climate</i> , <b>2007</b> , 20, 2076-2091	4.4	39
23	Detecting Atlantic MOC Changes in an Ensemble of Climate Change Simulations. <i>Journal of Climate</i> , <b>2007</b> , 20, 1571-1582	4.4	12
22	Mechanisms of Northern Tropical Atlantic Variability and Response to CO2 Doubling. <i>Journal of Climate</i> , <b>2007</b> , 20, 2691-2705	4.4	27
21	Increasing the Atlantic subtropical jet cools the circum-North Atlantic Region. <i>Meteorologische Zeitschrift</i> , <b>2007</b> , 16, 675-684	3.1	12
20	Stability of the thermohaline circulation under millennial CO2 forcing and two alternative controls on Atlantic salinity. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	23
19	Subtropical cells and meridional overturning circulation pathways in the tropical Atlantic. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		30
18	Pathways into the Pacific Equatorial Undercurrent: A Trajectory Analysis*. <i>Journal of Physical Oceanography</i> , <b>2005</b> , 35, 2134-2151	2.4	45
17	Can global warming affect tropical ocean heat transport?. <i>Geophysical Research Letters</i> , <b>2005</b> , 32, n/a-n/a	4.9	5
16	The relative roles of tropical and extratropical forcing on atmospheric variability. <i>Geophysical Research Letters</i> , <b>2005</b> , 32, n/a-n/a	4.9	7
15	Water Mass Transformation and Subduction in the South Atlantic. <i>Journal of Physical Oceanography</i> , <b>2005</b> , 35, 1841-1860	2.4	35
14	Tropical Pacific-Driven Decadal Energy Transport Variability. <i>Journal of Climate</i> , <b>2005</b> , 18, 2037-2051	4.4	24

- 13 Optimizing Parameters in an Atmospheric General Circulation Model. *Journal of Climate*, **2005**, 18, 3527-3535 33
- 12 Dominant Modes of Variability in the South Atlantic: A Study with a Hierarchy of Ocean-Atmosphere Models. *Journal of Climate*, **2005**, 18, 1719-1735 4.4 46
- 11 Sensitivity of tropical Atlantic climate to mixing in a coupled ocean-atmosphere model. *Climate Dynamics*, **2005**, 25, 387-399 4.2 47
- 10 How Can Tropical Pacific Ocean Heat Transport Vary?. *Journal of Physical Oceanography*, **2004**, 34, 320-334 3.4 33
- 9 Sources of the Equatorial Undercurrent in the Atlantic in a High-Resolution Ocean Model. *Journal of Physical Oceanography*, **2003**, 33, 677-693 2.4 49
- 8 Coupled variability and air-sea interaction in the South Atlantic Ocean. *Climate Dynamics*, **2003**, 21, 559-571 4.1 77
- 7 Looking for the Role of the Ocean in Tropical Atlantic Decadal Climate Variability\*. *Journal of Climate*, **2001**, 14, 638-655 4.4 39
- 6 Impact of the Midlatitude Storm Track on the Upper Pacific Ocean. *Journal of Physical Oceanography*, **2001**, 31, 616-636 2.4 12
- 5 Eddy Mixing of Potential Vorticity versus Thickness in an Isopycnic Ocean Model. *Journal of Physical Oceanography*, **2001**, 31, 481-505 2.4 23
- 4 Do tropical cells ventilate the Indo-Pacific Equatorial Thermocline?. *Geophysical Research Letters*, **2001**, 28, 1763-1766 4.9 33
- 3 Decadal upper ocean temperature variability in the tropical Pacific. *Journal of Geophysical Research*, **2001**, 106, 8971-8988 4.5 45
- 2 Eddy Subduction in a Model of the Subtropical Gyre. *Journal of Physical Oceanography*, **2000**, 30, 677-695 2.4 36
- 1 Mode Water Variability in a Model of the Subtropical Gyre: Response to Anomalous Forcing. *Journal of Physical Oceanography*, **1998**, 28, 266-288 2.4 26