

# Christoph Raible

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7264932/publications.pdf>

Version: 2024-02-01

114  
papers

6,537  
citations

66234

42  
h-index

79541

73  
g-index

120  
all docs

120  
docs citations

120  
times ranked

7579  
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2010 Crafoord Prize awarded to Walter Munk. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 63, 189.	0.8	125
2	Variability of the ocean carbon cycle in response to the North Atlantic Oscillation. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 64, 18738.	0.8	27
3	Atlantic hurricanes and associated insurance loss potentials in future climate scenarios: limitations of high-resolution AGCM simulations. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 64, 15672.	0.8	11
4	Lower-tropospheric humidity: climatology, trends and the relation to the ITCZ. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 65, 20413.	0.8	12
5	Objective climatology of cyclones in the Mediterranean region: a consensus view among methods with different system identification and tracking criteria. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 68, 29391.	0.8	79
6	Drought indices revisited – improving and testing of drought indices in a simulation of the last two millennia for Europe. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 69, 1296226.	0.8	30
7	Subantarctic cyclones identified by 14 tracking methods, and their role for moisture transports into the continent. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 70, 1454808.	0.8	43
8	Decadal variations of blocking and storm tracks in centennial reanalyses. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 71, 1586236.	0.8	15
9	Impact of climate change on the climatology of Vb cyclones. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 72, 1724021.	0.8	8
10	Droughts and societal change: The environmental context for the emergence of Islam in late Antique Arabia. <i>Science</i> , 2022, 376, 1317-1321.	6.0	18
11	The 852/3â€‰%CE Mount Churchill eruption: examining the potential climatic and societal impacts and the timing of the Medieval Climate Anomaly in the North Atlantic region. <i>Climate of the Past</i> , 2022, 18, 1475-1508.	1.3	7
12	The role of ice-sheet topography in the Alpine hydro-climate at glacial times. <i>Climate of the Past</i> , 2022, 18, 1579-1600.	1.3	6
13	A review of past changes in extratropical cyclones in the northern hemisphere and what can be learned for the future. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2021, 12, .	3.6	15
14	Dynamics of the Mediterranean droughts from 850 to 2099â€‰%CE in the Community Earth System Model. <i>Climate of the Past</i> , 2021, 17, 887-911.	1.3	6
15	The role of land cover in the climate of glacial Europe. <i>Climate of the Past</i> , 2021, 17, 1161-1180.	1.3	12
16	Evaluating the dependence structure of compound precipitation and wind speed extremes. <i>Earth System Dynamics</i> , 2021, 12, 1-16.	2.7	46
17	Statistical characteristics of extreme daily precipitation during 1501â€‰%BCEâ€‰“1849â€‰%CE in the Community Earth System Model. <i>Climate of the Past</i> , 2021, 17, 2031-2053.	1.3	1
18	North Atlantic Integrated Water Vapor Transportâ€‰”From 850 to 2100 CE: Impacts on Western European Rainfall. <i>Journal of Climate</i> , 2020, 33, 263-279.	1.2	26

#	ARTICLE	IF	CITATIONS
19	Eastern Mediterranean summer temperatures since 730 CE from Mt. Smolikas tree-ring densities. <i>Climate Dynamics</i> , 2020, 54, 1367-1382.	1.7	32
20	Extreme climate after massive eruption of Alaska's Okmok volcano in 43 BCE and effects on the late Roman Republic and Ptolemaic Kingdom. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15443-15449.	3.3	57
21	A new bias-correction method for precipitation over complex terrain suitable for different climate states: a case study using WRF (version 3.8.1). <i>Geoscientific Model Development</i> , 2020, 13, 5007-5027.	1.3	25
22	Perspectives of regional paleoclimate modeling. <i>Annals of the New York Academy of Sciences</i> , 2019, 1436, 54-69.	1.8	32
23	Last phase of the Little Ice Age forced by volcanic eruptions. <i>Nature Geoscience</i> , 2019, 12, 650-656.	5.4	93
24	Near-surface mean wind in Switzerland: Climatology, climate model evaluation and future scenarios. <i>International Journal of Climatology</i> , 2019, 39, 4798-4810.	1.5	10
25	Representation of Extratropical Cyclones, Blocking Anticyclones, and Alpine Circulation Types in Multiple Reanalyses and Model Simulations. <i>Journal of Climate</i> , 2018, 31, 3009-3031.	1.2	28
26	From global circulation to local flood loss: Coupling models across the scales. <i>Science of the Total Environment</i> , 2018, 635, 1225-1239.	3.9	30
27	A new region-aware bias-correction method for simulated precipitation in areas of complex orography. <i>Geoscientific Model Development</i> , 2018, 11, 2231-2247.	1.3	15
28	Extratropical cyclone statistics during the last millennium and the 21st century. <i>Climate of the Past</i> , 2018, 14, 1499-1514.	1.3	30
29	Stable Equatorial Ice Belts at High Obliquity in a Coupled Atmosphere-Ocean Model. <i>Astrophysical Journal</i> , 2018, 864, 106.	1.6	21
30	Palaeoclimate constraints on the impact of 2 °C anthropogenic warming and beyond. <i>Nature Geoscience</i> , 2018, 11, 474-485.	5.4	166
31	Impact of variations of gravitational acceleration on the general circulation of the planetary atmosphere. <i>Planetary and Space Science</i> , 2017, 135, 1-16.	0.9	5
32	Projected drought risk in 1.5 °C and 2 °C warmer climates. <i>Geophysical Research Letters</i> , 2017, 44, 7419-7428.	1.5	227
33	Multiple Climate States of Habitable Exoplanets: The Role of Obliquity and Irradiance. <i>Astrophysical Journal</i> , 2017, 844, 147.	1.6	45
34	Impacts of surface boundary conditions on regional climate model simulations of European climate during the Last Glacial Maximum. <i>Geophysical Research Letters</i> , 2017, 44, 5086-5095.	1.5	37
35	Sensitivity experiments on the response of Vb cyclones to sea surface temperature and soil moisture changes. <i>Earth System Dynamics</i> , 2017, 8, 477-493.	2.7	30
36	Pseudo-proxy tests of the analogue method to reconstruct spatially resolved global temperature during the Common Era. <i>Climate of the Past</i> , 2017, 13, 629-648.	1.3	19

#	ARTICLE	IF	CITATIONS
37	The 1430s: a cold period of extraordinary internal climate variability during the early Spörer Minimum with social and economic impacts in north-western and central Europe. <i>Climate of the Past</i> , 2016, 12, 2107-2126.	1.3	66
38	Warm Greenland during the last interglacial: the role of regional changes in sea ice cover. <i>Climate of the Past</i> , 2016, 12, 2011-2031.	1.3	15
39	Intensification of tropical Pacific biological productivity due to volcanic eruptions. <i>Geophysical Research Letters</i> , 2016, 43, 1184-1192.	1.5	21
40	Tambora 1815 as a test case for high impact volcanic eruptions: Earth system effects. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2016, 7, 569-589.	3.6	105
41	Stratospheric age of air variations between 1600 and 2100. <i>Geophysical Research Letters</i> , 2016, 43, 5409-5418.	1.5	9
42	The influence of absorbed solar radiation by Saharan dust on hurricane genesis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 1902-1917.	1.2	27
43	Detecting changes in marine responses to ENSO from 850 to 2100 C.E.: Insights from the ocean carbon cycle. <i>Geophysical Research Letters</i> , 2015, 42, 518-525.	1.5	19
44	The impacts of volcanic aerosol on stratospheric ozone and the Northern Hemisphere polar vortex: separating radiative-dynamical changes from direct effects due to enhanced aerosol heterogeneous chemistry. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11461-11476.	1.9	23
45	Non-exponential return time distributions for vorticity extremes explained by fractional Poisson processes. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 249-257.	1.0	28
46	Reconciling reconstructed and simulated features of the winter Pacific/North American pattern in the early 19th century. <i>Climate of the Past</i> , 2015, 11, 939-958.	1.3	19
47	Climate and carbon cycle dynamics in a CESM simulation from 850 to 2100 CE. <i>Earth System Dynamics</i> , 2015, 6, 411-434.	2.7	52
48	Sensitivity of the WRF model to PBL parametrisations and nesting techniques: evaluation of wind storms over complex terrain. <i>Geoscientific Model Development</i> , 2015, 8, 3349-3363.	1.3	68
49	A regional climate palaeosimulation for Europe in the period 1500â€“1990 â€“ Part 2: Shortcomings and strengths of models and reconstructions. <i>Climate of the Past</i> , 2015, 11, 1077-1095.	1.3	26
50	Continental-scale temperature variability in PMIP3 simulations and PAGES 2k regional temperature reconstructions over the past millennium. <i>Climate of the Past</i> , 2015, 11, 1673-1699.	1.3	98
51	Climatology of Vb cyclones, physical mechanisms and their impact on extreme precipitation over Central Europe. <i>Earth System Dynamics</i> , 2015, 6, 541-553.	2.7	53
52	A model-tested North Atlantic Oscillation reconstruction for the past millennium. <i>Nature</i> , 2015, 523, 71-74.	13.7	255
53	North Atlantic Eddy-Driven Jet in Interglacial and Glacial Winter Climates. <i>Journal of Climate</i> , 2015, 28, 3977-3997.	1.2	69
54	Contrasting interannual and multidecadal NAO variability. <i>Climate Dynamics</i> , 2015, 45, 539-556.	1.7	120

#	ARTICLE	IF	CITATIONS
55	Impact of solar versus volcanic activity variations on tropospheric temperatures and precipitation during the Dalton Minimum. <i>Climate of the Past</i> , 2014, 10, 921-938.	1.3	48
56	Time of emergence of trends in ocean biogeochemistry. <i>Biogeosciences</i> , 2014, 11, 3647-3659.	1.3	81
57	Changing correlation structures of the Northern Hemisphere atmospheric circulation from 1000 to 2100 AD. <i>Climate of the Past</i> , 2014, 10, 537-550.	1.3	53
58	Dependence of Eemian Greenland temperature reconstructions on the ice sheet topography. <i>Climate of the Past</i> , 2014, 10, 1221-1238.	1.3	27
59	The coupled atmosphere–chemistry–ocean model SOCOL-MPIOM. <i>Geoscientific Model Development</i> , 2014, 7, 2157-2179.	1.3	44
60	Influence of ice sheet topography on Greenland precipitation during the Eemian interglacial. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10,749-10,768.	1.2	19
61	Climate change in Switzerland: a review of physical, institutional, and political aspects. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2014, 5, 461-481.	3.6	21
62	Inter-hemispheric temperature variability over the past millennium. <i>Nature Climate Change</i> , 2014, 4, 362-367.	8.1	240
63	Northern hemispheric winter warming pattern after tropical volcanic eruptions: Sensitivity to the ozone climatology. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1340-1355.	1.2	20
64	Corrigendum to ‘‘Dependence of Eemian Greenland temperature reconstructions on the ice sheet topography’’ published in <i>Clim. Past</i> , 10, 1221–1238, 2014. <i>Climate of the Past</i> , 2014, 10, 1603-1604.	1.3	0
65	Is the Atlantic subpolar gyre bistable in comprehensive coupled climate models?. <i>Climate Dynamics</i> , 2013, 40, 2993-3007.	1.7	33
66	Impact of a potential 21st century ‘‘grand solar minimum’’ on surface temperatures and stratospheric ozone. <i>Geophysical Research Letters</i> , 2013, 40, 4420-4425.	1.5	38
67	IMILAST: A Community Effort to Intercompare Extratropical Cyclone Detection and Tracking Algorithms. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 529-547.	1.7	391
68	Spectral biases in tree-ring climate proxies. <i>Nature Climate Change</i> , 2013, 3, 360-364.	8.1	125
69	Atmospheric CO <sub>2</sub> response to volcanic eruptions: The role of ENSO, season, and variability. <i>Global Biogeochemical Cycles</i> , 2013, 27, 239-251.	1.9	53
70	Amplified Inception of European Little Ice Age by Sea Ice–Ocean–Atmosphere Feedbacks. <i>Journal of Climate</i> , 2013, 26, 7586-7602.	1.2	81
71	Forcing of stratospheric chemistry and dynamics during the Dalton Minimum. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10951-10967.	1.9	20
72	Are Greenhouse Gas Signals of Northern Hemisphere winter extra-tropical cyclone activity dependent on the identification and tracking algorithm?. <i>Meteorologische Zeitschrift</i> , 2013, 22, 61-68.	0.5	77

#	ARTICLE	IF	CITATIONS
73	Investigating the sensitivity of hurricane intensity and trajectory to sea surface temperatures using the regional model WRF. <i>Meteorologische Zeitschrift</i> , 2013, 22, 685-698.	0.5	11
74	Large-scale temperature response to external forcing in simulations and reconstructions of the last millennium. <i>Climate of the Past</i> , 2013, 9, 393-421.	1.3	131
75	Greenland accumulation and its connection to the large-scale atmospheric circulation in ERA-Interim and paleoclimate simulations. <i>Climate of the Past</i> , 2013, 9, 2433-2450.	1.3	22
76	Simulated winter circulation types in the North Atlantic and European region for preindustrial and glacial conditions. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	35
77	Testing the robustness of a precipitation proxy-based North Atlantic Oscillation reconstruction. <i>Quaternary Science Reviews</i> , 2012, 45, 85-94.	1.4	77
78	North Atlantic storminess and Atlantic Meridional Overturning Circulation during the last Millennium: Reconciling contradictory proxy records of NAO variability. <i>Global and Planetary Change</i> , 2012, 84-85, 48-55.	1.6	163
79	Climate variability of the mid- and high-latitudes of the Southern Hemisphere in ensemble simulations from 1500 to 2000 AD. <i>Climate of the Past</i> , 2012, 8, 373-390.	1.3	16
80	Past and recent changes in the North Atlantic oscillation. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2012, 3, 79-90.	3.6	129
81	The freshwater balance of polar regions in transient simulations from 1500 to 2100 AD using a comprehensive coupled climate model. <i>Climate Dynamics</i> , 2012, 39, 347-363.	1.7	18
82	The impact of different glacial boundary conditions on atmospheric dynamics and precipitation in the North Atlantic region. <i>Climate of the Past</i> , 2012, 8, 935-949.	1.3	54
83	Sensitivity of atmospheric CO <sub>2</sub> and climate to explosive volcanic eruptions. <i>Biogeosciences</i> , 2011, 8, 2317-2339.	1.3	46
84	Variations of the Atlantic meridional overturning circulation in control and transient simulations of the last millennium. <i>Climate of the Past</i> , 2011, 7, 133-150.	1.3	50
85	Future storm surge impacts on insurable losses for the North Sea region. <i>Natural Hazards and Earth System Sciences</i> , 2011, 11, 1205-1216.	1.5	15
86	Causes and Consequences of Past and Projected Scandinavian Summer Temperatures, 500â€“2100 AD. <i>PLoS ONE</i> , 2011, 6, e25133.	1.1	39
87	Simulated decadal oscillations of the Atlantic meridional overturning circulation in a cold climate state. <i>Climate Dynamics</i> , 2010, 34, 101-121.	1.7	45
88	Winter synoptic-scale variability over the Mediterranean Basin under future climate conditions as simulated by the ECHAM5. <i>Climate Dynamics</i> , 2010, 35, 473-488.	1.7	65
89	Ensemble reconstruction constraints on the global carbon cycle sensitivity to climate. <i>Nature</i> , 2010, 463, 527-530.	13.7	256
90	Transient climate simulations from the Maunder Minimum to present day: Role of the stratosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	28

#	ARTICLE	IF	CITATIONS
91	Simulated resumption of the North Atlantic meridional overturning circulation – Slow basin-wide advection and abrupt local convection. <i>Quaternary Science Reviews</i> , 2010, 29, 101-112.	1.4	34
92	Timing and climatic impact of Greenland interstadials recorded in stalagmites from northern Turkey. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	379
93	Tropical cyclones in ERA-40: A detection and tracking method. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	17
94	Northern Hemisphere Extratropical Cyclones: A Comparison of Detection and Tracking Methods and Different Reanalyses. <i>Monthly Weather Review</i> , 2008, 136, 880-897.	0.5	186
95	On the relation between extremes of midlatitude cyclones and the atmospheric circulation using ERA40. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	66
96	Extreme midlatitude cyclones and their implications for precipitation and wind speed extremes in simulations of the Maunder Minimum versus present day conditions. <i>Climate Dynamics</i> , 2007, 28, 409-423.	1.7	94
97	The influence of regional circulation patterns on wet and dry mineral dust and sea salt deposition over Greenland. <i>Climate Dynamics</i> , 2007, 28, 635-647.	1.7	15
98	A European pattern climatology 1766–2000. <i>Climate Dynamics</i> , 2007, 29, 791-805.	1.7	127
99	Climate Variability-Observations, Reconstructions, and Model Simulations for the Atlantic-European and Alpine Region from 1500-2100 AD. <i>Climatic Change</i> , 2006, 79, 9-29.	1.7	74
100	On the interpretation of low-latitude hydrological proxy records based on Maunder Minimum AOGCM simulations. <i>Climate Dynamics</i> , 2006, 27, 493-513.	1.7	10
101	Climate variability – observations, reconstructions, and model simulations for the Atlantic-European and Alpine region from 1500–2100 AD. , 2006, , 9-29.		3
102	Decadal cyclone variability in the North Atlantic. <i>Meteorologische Zeitschrift</i> , 2005, 14, 747-753.	0.5	16
103	Northern Hemispheric Trends of Pressure Indices and Atmospheric Circulation Patterns in Observations, Reconstructions, and Coupled GCM Simulations. <i>Journal of Climate</i> , 2005, 18, 3968-3982.	1.2	51
104	Water cycle shifts gear. <i>Nature</i> , 2005, 434, 830-833.	13.7	72
105	Recurrent climate winter regimes in reconstructed and modelled 500-hPa geopotential height fields over the North Atlantic/European sector 1659–1990. <i>Climate Dynamics</i> , 2005, 24, 809-822.	1.7	35
106	Externally Forced and Internal Variability in Ensemble Climate Simulations of the Maunder Minimum. <i>Journal of Climate</i> , 2005, 18, 4253-4270.	1.2	76
107	Reconstructing climate variability from Greenland ice sheet accumulation: An ERA40 study. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	21
108	Northern Hemisphere midlatitude cyclone variability in GCM simulations with different ocean representations. <i>Climate Dynamics</i> , 2004, 22, 239-248.	1.7	40

#	ARTICLE	IF	CITATIONS
109	Precipitation and Northern Hemisphere regimes. <i>Atmospheric Science Letters</i> , 2004, 5, 43-55.	0.8	36
110	Predictability study of the observed and simulated European climate using linear regression. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003, 129, 2299-2313.	1.0	16
111	Analog Ensemble Forecasts of Tropical Cyclone Tracks in the Australian Region. <i>Weather and Forecasting</i> , 2003, 18, 3-11.	0.5	26
112	North Atlantic decadal regimes in a coupled GCM simulation. <i>Climate Dynamics</i> , 2001, 18, 321-330.	1.7	61
113	Self-Adapting Analog Ensemble Predictions of Tropical Cyclone Tracks. <i>Weather and Forecasting</i> , 2000, 15, 623-629.	0.5	22
114	Statistical Single-Station Short-Term Forecasting of Temperature and Probability of Precipitation: Area Interpolation and NWP Combination. <i>Weather and Forecasting</i> , 1999, 14, 203-214.	0.5	13