

Caroline C Ummenhofer

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

3,681
citations

201575

27
h-index

133188

59
g-index

75
all docs

75
docs citations

75
times ranked

5603
citing authors

#	ARTICLE	IF	CITATIONS
1	What causes southeast Australia's worst droughts?. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	527
2	Extreme weather and climate events with ecological relevance: a review. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160135.	1.8	467
3	Past and future rainfall in the Horn of Africa. <i>Science Advances</i> , 2015, 1, e1500682.	4.7	175
4	The Indo-Australian monsoon and its relationship to ENSO and IOD in reanalysis data and the CMIP3/CMIP5 simulations. <i>Climate Dynamics</i> , 2013, 41, 3073-3102.	1.7	153
5	Cold Tongue and Warm Pool ENSO Events in CMIP5: Mean State and Future Projections. <i>Journal of Climate</i> , 2014, 27, 2861-2885.	1.2	147
6	Indian and Pacific Ocean Influences on Southeast Australian Drought and Soil Moisture. <i>Journal of Climate</i> , 2011, 24, 1313-1336.	1.2	139
7	Contributions of Indian Ocean Sea Surface Temperatures to Enhanced East African Rainfall. <i>Journal of Climate</i> , 2009, 22, 993-1013.	1.2	136
8	Droughts, Wildfires, and Forest Carbon Cycling: A Pantropical Synthesis. <i>Annual Review of Earth and Planetary Sciences</i> , 2019, 47, 555-581.	4.6	131
9	Coupling of Indo-Pacific climate variability over the last millennium. <i>Nature</i> , 2020, 579, 385-392.	13.7	116
10	Interannual Rainfall Extremes over Southwest Western Australia Linked to Indian Ocean Climate Variability. <i>Journal of Climate</i> , 2006, 19, 1948-1969.	1.2	110
11	Initialized Earth System prediction from subseasonal to decadal timescales. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 340-357.	12.2	85
12	Multidecadal Indian Ocean Variability Linked to the Pacific and Implications for Preconditioning Indian Ocean Dipole Events. <i>Journal of Climate</i> , 2017, 30, 1739-1751.	1.2	77
13	The Contribution of Indian Ocean Sea Surface Temperature Anomalies on Australian Summer Rainfall during El Niño Events. <i>Journal of Climate</i> , 2011, 24, 3734-3747.	1.2	74
14	Extreme rainfall activity in the Australian tropics reflects changes in the El Niño/Southern Oscillation over the last two millennia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4576-4581.	3.3	64
15	Revisiting the Relationship among Metrics of Tropical Expansion. <i>Journal of Climate</i> , 2018, 31, 7565-7581.	1.2	61
16	Expansion and Contraction of the Indo-Pacific Tropical Rain Belt over the Last Three Millennia. <i>Scientific Reports</i> , 2016, 6, 34485.	1.6	60
17	Palaeoclimate perspectives on the Indian Ocean Dipole. <i>Quaternary Science Reviews</i> , 2020, 237, 106302.	1.4	60
18	Modulation of Australian Precipitation by Meridional Gradients in East Indian Ocean Sea Surface Temperature. <i>Journal of Climate</i> , 2009, 22, 5597-5610.	1.2	56

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19	How did ocean warming affect Australian rainfall extremes during the 2010/2011 La Niña event?. <i>Geophysical Research Letters</i> , 2015, 42, 9942-9951.	1.5	55
20	Australian Monsoon Variability Driven by a Gill–Matsuno-Type Response to Central West Pacific Warming. <i>Journal of Climate</i> , 2010, 23, 4717-4736.	1.2	49
21	A Road Map to IndOOS-2: Better Observations of the Rapidly Warming Indian Ocean. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1891-E1913.	1.7	48
22	On the dynamics of the Hadley circulation and subtropical drying. <i>Climate Dynamics</i> , 2014, 42, 2259-2269.	1.7	47
23	Early assessment of seasonal forage availability for mitigating the impact of drought on East African pastoralists. <i>Remote Sensing of Environment</i> , 2016, 174, 44-55.	4.6	45
24	Progress in understanding of Indian Ocean circulation, variability, air–sea exchange, and impacts on biogeochemistry. <i>Ocean Science</i> , 2021, 17, 1677-1751.	1.3	43
25	Pacific Ocean Contribution to the Asymmetry in Eastern Indian Ocean Variability. <i>Journal of Climate</i> , 2013, 26, 1152-1171.	1.2	36
26	North Atlantic salinity as a predictor of Sahel rainfall. <i>Science Advances</i> , 2016, 2, e1501588.	4.7	31
27	Tropical Widening: From Global Variations to Regional Impacts. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E897-E904.	1.7	31
28	The climate of Myanmar: evidence for effects of the Pacific Decadal Oscillation. <i>International Journal of Climatology</i> , 2015, 35, 634-640.	1.5	29
29	Amplified seasonal cycle in hydroclimate over the Amazon river basin and its plume region. <i>Nature Communications</i> , 2020, 11, 4390.	5.8	29
30	Multidecadal variability of the continental precipitation annual amplitude driven by AMO and ENSO. <i>Geophysical Research Letters</i> , 2015, 42, 526-535.	1.5	28
31	Influences of Pacific Climate Variability on Decadal Subsurface Ocean Heat Content Variations in the Indian Ocean. <i>Journal of Climate</i> , 2018, 31, 4157-4174.	1.2	28
32	400 Years of summer hydroclimate from stable isotopes in Iberian trees. <i>Climate Dynamics</i> , 2017, 49, 143-161.	1.7	24
33	Extremes in East African hydroclimate and links to Indo-Pacific variability on interannual to decadal timescales. <i>Climate Dynamics</i> , 2018, 50, 2971-2991.	1.7	24
34	Twentieth-century Azores High expansion unprecedented in the past 1,200 years. <i>Nature Geoscience</i> , 2022, 15, 548-553.	5.4	24
35	Interdecadal Pacific Oscillation reconstructed from trans-Pacific tree rings: 1350–2004 CE. <i>Climate Dynamics</i> , 2019, 53, 3181-3196.	1.7	23
36	The El Niño–La Niña cycle and recent trends in supply and demand of net primary productivity in African drylands. <i>Climatic Change</i> , 2016, 138, 111-125.	1.7	22

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37	Tree-ring reconstructed May–June precipitation in the Caucasus since 1752 CE. <i>Climate Dynamics</i> , 2016, 47, 3011-3027.	1.7	22
38	The role of the subtropical North Atlantic water cycle in recent US extreme precipitation events. <i>Climate Dynamics</i> , 2018, 50, 1291-1305.	1.7	21
39	A stalagmite test of North Atlantic SST and Iberian hydroclimate linkages over the last two glacial cycles. <i>Climate of the Past</i> , 2018, 14, 1893-1913.	1.3	21
40	Impact of Multidecadal Variability in Atlantic SST on Winter Atmospheric Blocking. <i>Journal of Climate</i> , 2020, 33, 867-892.	1.2	20
41	Increased typhoon activity in the Pacific deep tropics driven by Little Ice Age circulation changes. <i>Nature Geoscience</i> , 2020, 13, 806-811.	5.4	19
42	North Atlantic Natural Variability Modulates Emergence of Widespread Greenland Melt in a Warming Climate. <i>Geophysical Research Letters</i> , 2018, 45, 9171-9178.	1.5	18
43	Hydroclimate variability from western Iberia (Portugal) during the Holocene: Insights from a composite stalagmite isotope record. <i>Holocene</i> , 2020, 30, 966-981.	0.9	18
44	Impact of Surface Forcing on Southern Hemisphere Atmospheric Blocking in the Australia–New Zealand Sector. <i>Journal of Climate</i> , 2013, 26, 8476-8494.	1.2	17
45	Can Australian Multiyear Droughts and Wet Spells Be Generated in the Absence of Oceanic Variability?. <i>Journal of Climate</i> , 2016, 29, 6201-6221.	1.2	16
46	Pacific climate influences on ocean conditions and extreme shell growth events in the Northwestern Atlantic (Gulf of Maine). <i>Climate Dynamics</i> , 2019, 52, 6339-6356.	1.7	16
47	Importance of Orography for Greenland Cloud and Melt Response to Atmospheric Blocking. <i>Journal of Climate</i> , 2020, 33, 4187-4206.	1.2	16
48	Meridional Gulf Stream Shifts Can Influence Wintertime Variability in the North Atlantic Storm Track and Greenland Blocking. <i>Geophysical Research Letters</i> , 2019, 46, 1702-1708.	1.5	14
49	Heat and freshwater changes in the Indian Ocean region. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 525-541.	12.2	14
50	Understanding physical drivers of the 2015/16 marine heatwaves in the Northwest Atlantic. <i>Scientific Reports</i> , 2021, 11, 17623.	1.6	14
51	On the Predominant Nonlinear Response of the Extratropical Atmosphere to Meridional Shifts of the Gulf Stream. <i>Journal of Climate</i> , 2017, 30, 9679-9702.	1.2	13
52	Evaluation of monsoon seasonality and the tropospheric biennial oscillation transitions in the CMIP models. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	12
53	Emerging European winter precipitation pattern linked to atmospheric circulation changes over the North Atlantic region in recent decades. <i>Geophysical Research Letters</i> , 2017, 44, 8557-8566.	1.5	12
54	Depth Structure of Ningaloo Ni ²⁺ /Ni ³⁺ Events and Associated Drivers. <i>Journal of Climate</i> , 2021, 34, 1767-1788.	1.2	12

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55	A synoptic climatology of heavy rain events in the Lake Eyre and Lake Frome catchments. <i>Frontiers in Environmental Science</i> , 2014, 2, .	1.5	10
56	Distinct Mechanisms of Decadal Subsurface Heat Content Variations in the Eastern and Western Indian Ocean Modulated by Tropical Pacific SST. <i>Journal of Climate</i> , 2018, 31, 7751-7769.	1.2	10
57	Late 20th Century Indian Ocean Heat Content Gain Masked by Wind Forcing. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088692.	1.5	10
58	Intraseasonal rainfall variability in the Bay of Bengal during the Summer Monsoon: coupling with the ocean and modulation by the Indian Ocean Dipole. <i>Atmospheric Science Letters</i> , 2017, 18, 88-95.	0.8	8
59	Near-Surface Salinity Reveals the Oceanic Sources of Moisture for Australian Precipitation through Atmospheric Moisture Transport. <i>Journal of Climate</i> , 2020, 33, 6707-6730.	1.2	8
60	Improving Australian Rainfall Prediction Using Sea Surface Salinity. <i>Journal of Climate</i> , 2021, 34, 2473-2490.	1.2	5
61	Linking the karst record to atmospheric, precipitation, and vegetation dynamics in Portugal. <i>Chemical Geology</i> , 2020, 558, 119949.	1.4	4
62	The Role of Nearshore Air–Sea Interactions for Landfalling Atmospheric Rivers on the U.S. West Coast. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091388.	1.5	4
63	Albatrosses respond adaptively to climate variability by changing variance in a foraging trait. <i>Global Change Biology</i> , 2021, 27, 4564-4574.	4.2	4
64	Distinct seasonal climate drivers revealed in a network of tree-ring records from Labrador, Canada. <i>Climate Dynamics</i> , 2020, 54, 1897-1911.	1.7	2
65	Relative contributions of heat flux and wind stress on the spatiotemporal upper-ocean variability in the tropical Indian Ocean. <i>Environmental Research Letters</i> , 2020, 15, 084047.	2.2	2
66	Skillful Long-Lead Prediction of Summertime Heavy Rainfall in the US Midwest From Sea Surface Salinity. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	1
67	Reply to Nott: Assessing biases in speleothem records of flood events. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4637-E4637.	3.3	0