

Ben Kirtman

List of Publications by Year in descending order

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135
papers

8,277
citations

57758

44
h-index

49909

87
g-index

140
all docs

140
docs citations

140
times ranked

6309
citing authors

#	ARTICLE	IF	CITATIONS
1	Ocean warming alters the distributional range, migratory timing, and spatial protections of an apex predator, the tiger shark (<i>Galeocerdo cuvier</i>). <i>Global Change Biology</i> , 2022, 28, 1990-2005.	9.5	39
2	The summer Asia–North America teleconnection and its modulation by ENSO in Community Atmosphere Model, version 5 (CAM5). <i>Climate Dynamics</i> , 2022, 59, 2213-2230.	3.8	2
3	Effects of grid spacing on high-frequency precipitation variance in coupled high-resolution global ocean–atmosphere models. <i>Climate Dynamics</i> , 2022, 59, 2887-2913.	3.8	2
4	A Decade of the North American Multimodel Ensemble (NMME): Research, Application, and Future Directions. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E973-E995.	3.3	24
5	Decadal Variability of Southeast US Rainfall in an Eddyng Global Coupled Model. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	1
6	Role of Ocean and Atmosphere Variability in Scale-Dependent Thermodynamic Air–Sea Interactions. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	6
7	Extreme environmental forcing on the container ship SS El Faro. <i>Journal of Operational Oceanography</i> , 2021, 14, 98-113.	1.2	5
8	The Pacific decadal oscillation as a modulator of summertime North Atlantic Rossby wave breaking. <i>Climate Dynamics</i> , 2021, 56, 207-225.	3.8	1
9	Forecasting Remote Atmospheric Responses to Decadal Kuroshio Stability Transitions. <i>Journal of Climate</i> , 2021, 34, 379-395.	3.2	16
10	Saharan Dust Transport Predictability Utilizing a Subseasonal Experiment (SubX) Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033802.	3.3	0
11	Initialized Earth System prediction from subseasonal to decadal timescales. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 340-357.	29.7	85
12	Understanding the signal-to-noise paradox in decadal climate predictability from CMIP5 and an eddyng global coupled model. <i>Climate Dynamics</i> , 2021, 56, 2895-2913.	3.8	17
13	Assessment of uncertainty in multi-model means of downscaled South Florida precipitation for projected (2019–2099) climate. <i>International Journal of Climatology</i> , 2020, 40, 2764-2777.	3.5	2
14	Understanding Intermodel Diversity When Simulating the Time of Emergence in CMIP5 Climate Models. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087923.	4.0	7
15	Aligning Climate Models With Stakeholder Needs: Advances in Communicating Future Rainfall Uncertainties for South Florida Decision Makers. <i>Earth and Space Science</i> , 2020, 7, e2019EA000725.	2.6	3
16	How MJO Teleconnections and ENSO Interference Impacts U.S. Precipitation. <i>Journal of Climate</i> , 2020, 33, 4621-4640.	3.2	31
17	Evolution of the North American Multi-Model Ensemble. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087408.	4.0	31
18	Dynamic and Thermodynamic Modulators of European Atmospheric Rivers. <i>Journal of Climate</i> , 2020, 33, 4167-4185.	3.2	20

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19	Subseasonal Variability of Elevated Dust Concentrations Over South Florida. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031874.	3.3	7
20	A study of mesoscale air-sea interaction in the Southern Ocean with a regional coupled model. <i>Ocean Modelling</i> , 2020, 153, 101660.	2.4	11
21	Current and Emerging Developments in Subseasonal to Decadal Prediction. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E869-E896.	3.3	116
22	Windows of Opportunity for Skillful Forecasts Subseasonal to Seasonal and Beyond. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E608-E625.	3.3	124
23	On the Correspondence between Seasonal Forecast Biases and Long-Term Climate Biases in Sea Surface Temperature. <i>Journal of Climate</i> , 2020, 34, 427-446.	3.2	7
24	Predictability of Midsummer Great Plains Low-Level Jet and Associated Precipitation. <i>Weather and Forecasting</i> , 2020, 35, 215-235.	1.4	10
25	Impact of ocean model resolution on understanding the delayed warming of the Southern Ocean. <i>Environmental Research Letters</i> , 2020, 15, 114012.	5.2	4
26	The Subseasonal Experiment (SubX): A Multimodel Subseasonal Prediction Experiment. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 2043-2060.	3.3	153
27	Understanding the Signal-to-Noise Paradox with a Simple Markov Model. <i>Geophysical Research Letters</i> , 2019, 46, 13308-13317.	4.0	25
28	Seasonal Forecasting of Wind and Waves in the North Atlantic Using a Grand Multimodel Ensemble. <i>Weather and Forecasting</i> , 2019, 34, 31-59.	1.4	6
29	East Asian Monsoon as a Modulator of U.S. Great Plains Heat Waves. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6342-6358.	3.3	16
30	Cloud Radiative Feedbacks and El Niño-Southern Oscillation. <i>Journal of Climate</i> , 2019, 32, 4661-4680.	3.2	35
31	Estimates of Decadal Climate Predictability From an Interactive Ensemble Model. <i>Geophysical Research Letters</i> , 2019, 46, 3387-3397.	4.0	9
32	North Atlantic Summertime Anticyclonic Rossby Wave Breaking: Climatology, Impacts, and Connections to the Pacific Decadal Oscillation. <i>Journal of Climate</i> , 2019, 32, 485-500.	3.2	8
33	Cross-spectral analysis of the SST/10-m wind speed coupling resolved by satellite products and climate model simulations. <i>Climate Dynamics</i> , 2019, 52, 5071-5098.	3.8	16
34	ENSO influence over the Pacific North American sector: uncertainty due to atmospheric internal variability. <i>Climate Dynamics</i> , 2019, 52, 6149-6172.	3.8	13
35	A comparison of CCSM4 high-resolution and low-resolution predictions for south Florida and southeast United States drought. <i>Climate Dynamics</i> , 2019, 52, 6877-6892.	3.8	10
36	Linking preconditioning to extreme ENSO events and reduced ensemble spread. <i>Climate Dynamics</i> , 2019, 52, 7417-7433.	3.8	20

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37	Assessing North American multimodel ensemble (NMME) seasonal forecast skill to assist in the early warning of anomalous hydrometeorological events over East Africa. <i>Climate Dynamics</i> , 2019, 53, 7411-7427.	3.8	46
38	Seasonal forecasting of winds, waves and currents in the North Pacific. <i>Journal of Operational Oceanography</i> , 2018, 11, 11-26.	1.2	9
39	How Momentum Coupling Affects SST Variance and Large-Scale Pacific Climate Variability in CESM. <i>Journal of Climate</i> , 2018, 31, 2927-2944.	3.2	30
40	Long-Lived Mesoscale Convective Systems of Superparameterized CAM and the Response of CAM. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 2269-2286.	3.8	8
41	Interannual Agulhas Leakage Variability and Its Regional Climate Imprints. <i>Journal of Climate</i> , 2018, 31, 10105-10121.	3.2	16
42	Impact of Ocean Eddy Resolution on the Sensitivity of Precipitation to CO ₂ Increase. <i>Geophysical Research Letters</i> , 2018, 45, 7194-7203.	4.0	8
43	The South Pacific Meridional Mode as a Thermally Driven Source of ENSO Amplitude Modulation and Uncertainty. <i>Journal of Climate</i> , 2018, 31, 5127-5145.	3.2	30
44	A multi-model analysis of the resolution influence on precipitation climatology in the Gulf Stream region. <i>Climate Dynamics</i> , 2017, 48, 1685-1704.	3.8	8
45	Drivers of coupled model ENSO error dynamics and the spring predictability barrier. <i>Climate Dynamics</i> , 2017, 48, 3631-3644.	3.8	36
46	CGCM and AGCM seasonal climate predictions: A study in CCSM4. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 7416-7432.	3.3	9
47	Importance of ocean mesoscale variability for air-sea interactions in the Gulf of Mexico. <i>Geophysical Research Letters</i> , 2017, 44, 6352-6362.	4.0	41
48	Model evidence for low-level cloud feedback driving persistent changes in atmospheric circulation and regional hydroclimate. <i>Geophysical Research Letters</i> , 2017, 44, 428-437.	4.0	24
49	Ocean eddies and climate predictability. <i>Chaos</i> , 2017, 27, 126902.	2.5	22
50	A Framework to Decompose Wind-Driven Biases in Climate Models Applied to CCSM/CESM in the Eastern Pacific. <i>Journal of Climate</i> , 2017, 30, 8763-8782.	3.2	8
51	Florida Climate Variability and Prediction. , 2017, , .		7
52	Prediction and predictability of land and atmosphere initialized CCSM4 climate forecasts over North America. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 12,690.	3.3	38
53	Challenges and Prospects for Reducing Coupled Climate Model SST Biases in the Eastern Tropical Atlantic and Pacific Oceans: The U.S. CLIVAR Eastern Tropical Oceans Synthesis Working Group. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 2305-2328.	3.3	116
54	Atlantic near-term climate variability and the role of a resolved Gulf Stream. <i>Geophysical Research Letters</i> , 2016, 43, 3964-3972.	4.0	61

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55	ENSO modulation of tropical Indian Ocean subseasonal variability. <i>Geophysical Research Letters</i> , 2016, 43, 12,634.	4.0	12
56	Can we predict seasonal changes in high impact weather in the United States?. <i>Environmental Research Letters</i> , 2016, 11, 074018.	5.2	22
57	Increasing flooding hazard in coastal communities due to rising sea level: Case study of Miami Beach, Florida. <i>Ocean and Coastal Management</i> , 2016, 126, 1-8.	4.4	175
58	North American rainfall and temperature prediction response to the diversity of ENSO. <i>Climate Dynamics</i> , 2016, 46, 3007-3023.	3.8	56
59	Quantifying Agulhas Leakage in a High-Resolution Climate Model. <i>Journal of Climate</i> , 2016, 29, 6881-6892.	3.2	25
60	Modulation of SST Interannual Variability in the Agulhas Leakage Region Associated with ENSO. <i>Journal of Climate</i> , 2016, 29, 7089-7102.	3.2	38
61	An alternate approach to ensemble ENSO forecast spread: Application to the 2014 forecast. <i>Geophysical Research Letters</i> , 2015, 42, 9411-9415.	4.0	32
62	Contributions of the atmosphereâ€œland and oceanâ€œsea ice model components to the tropical Atlantic SST bias in CESM1. <i>Ocean Modelling</i> , 2015, 96, 280-290.	2.4	13
63	An efficient perturbed parameter scheme in the Lorenz system for quantifying model uncertainty. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 2552-2562.	2.7	2
64	A new Eulerian method to estimate â€œspicyâ€œAgulhas leakage in climate models. <i>Geophysical Research Letters</i> , 2015, 42, 4532-4539.	4.0	10
65	Revisiting ENSO Coupled Instability Theory and SST Error Growth in a Fully Coupled Model. <i>Journal of Climate</i> , 2015, 28, 4724-4742.	3.2	30
66	Tropical Pacific internal atmospheric dynamics and resolution in a coupled GCM. <i>Climate Dynamics</i> , 2015, 44, 509-527.	3.8	9
67	The Impact of Natural and Anthropogenic Climate Change on Western North Pacific Tropical Cyclone Tracks*. <i>Journal of Climate</i> , 2015, 28, 1806-1823.	3.2	54
68	Southeastern U.S. Rainfall Prediction in the North American Multi-Model Ensemble. <i>Journal of Hydrometeorology</i> , 2014, 15, 529-550.	1.9	31
69	The Pacific Meridional Mode as an ENSO Precursor and Predictor in the North American Multimodel Ensemble. <i>Journal of Climate</i> , 2014, 27, 7018-7032.	3.2	90
70	The North American Multimodel Ensemble: Phase-1 Seasonal-to-Interannual Prediction; Phase-2 toward Developing Intraseasonal Prediction. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 585-601.	3.3	756
71	The robustness of the atmospheric circulation and precipitation response to future anthropogenic surface warming. <i>Geophysical Research Letters</i> , 2014, 41, 2614-2622.	4.0	50
72	Role of the western tropical Pacific in the North Pacific regime shift in the winter of 1998/1999. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 6161-6170.	2.6	17

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73	WWBs, ENSO predictability, the spring barrier and extreme events. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10,114.	3.3	80
74	A possible explanation on the changes in the spatial structure of ENSO from CMIP3 to CMIP5. Geophysical Research Letters, 2014, 41, 140-145.	4.0	9
75	Real-time multi-model decadal climate predictions. Climate Dynamics, 2013, 41, 2875-2888.	3.8	111
76	The Impact of Anthropogenic Climate Change on North Atlantic Tropical Cyclone Tracks*. Journal of Climate, 2013, 26, 4088-4095.	3.2	58
77	A verification framework for interannual-to-decadal predictions experiments. Climate Dynamics, 2013, 40, 245-272.	3.8	254
78	Impact of interactive westerly wind bursts on CCSM3. Dynamics of Atmospheres and Oceans, 2013, 59, 24-51.	1.8	48
79	Evaluation of Weather Noise and Its Role in Climate Model Simulations*. Journal of Climate, 2013, 26, 3766-3784.	3.2	19
80	The Pacific Meridional Mode as a trigger for ENSO in a high-resolution coupled model. Geophysical Research Letters, 2013, 40, 3189-3194.	4.0	96
81	Westerly wind bursts and the diversity of ENSO in CCSM3 and CCSM4. Geophysical Research Letters, 2013, 40, 4722-4727.	4.0	35
82	The Ocean's Role in Modeling and Predicting Seasonal-to-Interannual Climate Variations. International Geophysics, 2013, 103, 625-643.	0.6	5
83	Prediction from Weeks to Decades. , 2013, , 205-235.		13
84	The Impact of Land Surface and Atmospheric Initialization on Seasonal Forecasts with CCSM. Journal of Climate, 2012, 25, 1007-1021.	3.2	34
85	Role of the Indian Ocean in the ENSO's Indian Summer Monsoon Teleconnection in the NCEP Climate Forecast System. Journal of Climate, 2012, 25, 2490-2508.	3.2	59
86	Impact of ocean model resolution on CCSM climate simulations. Climate Dynamics, 2012, 39, 1303-1328.	3.8	181
87	The role of atmospheric internal variability on the tropical instability wave dynamics. Journal of Geophysical Research, 2012, 117, n/a-n/a.	3.3	3
88	What is the current state of scientific knowledge with regard to seasonal and decadal forecasting?. Environmental Research Letters, 2012, 7, 015602.	5.2	124
89	Natural variability of the central Pacific El Niño event on multi-centennial timescales. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	101
90	What caused the significant increase in Atlantic Ocean heat content since the mid-20th century?. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	62

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91	Varied representation of the Atlantic Meridional Overturning across multidecadal ocean reanalyses. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1848-1857.	1.4	42
92	How weather impacts the forced climate response. Climate Dynamics, 2011, 37, 2389-2416.	3.8	18
93	Distinguishing the Roles of Natural and Anthropogenically Forced Decadal Climate Variability. Bulletin of the American Meteorological Society, 2011, 92, 141-156.	3.3	125
94	WHY CLIMATE MODELERS SHOULD WORRY ABOUT ATMOSPHERIC AND OCEANIC WEATHER. World Scientific Series on Asia-Pacific Weather and Climate, 2011, , 511-523.	0.2	8
95	The extratropical sensitivity to the meridional extent of tropical ENSO forcing. Climate Dynamics, 2010, 34, 935-951.	3.8	3
96	The impact of ENSO periodicity on North Pacific SST variability. Climate Dynamics, 2010, 34, 1015-1039.	3.8	13
97	Collaboration of the Weather and Climate Communities to Advance Subseasonal-to-Seasonal Prediction. Bulletin of the American Meteorological Society, 2010, 91, 1397-1406.	3.3	168
98	How the annual cycle affects the extratropical response to ENSO. Journal of Geophysical Research, 2010, 115, .	3.3	15
99	Decadal Prediction. Bulletin of the American Meteorological Society, 2009, 90, 1467-1486.	3.3	662
100	A U.S. CLIVAR Project to Assess and Compare the Responses of Global Climate Models to Drought-Related SST Forcing Patterns: Overview and Results. Journal of Climate, 2009, 22, 5251-5272.	3.2	282
101	Multimodel Ensemble ENSO Prediction with CCSM and CFS. Monthly Weather Review, 2009, 137, 2908-2930.	1.4	122
102	A Unified Modeling Approach to Climate System Prediction. Bulletin of the American Meteorological Society, 2009, 90, 1819-1832.	3.3	140
103	Toward linking weather and climate in the interactive ensemble NCAR climate model. Geophysical Research Letters, 2009, 36, .	4.0	16
104	Why the Southern Hemisphere ENSO responses lead ENSO. Journal of Geophysical Research, 2009, 114, .	3.3	68
105	The Urgent Need for Improved Climate Models and Predictions. Eos, 2009, 90, 343-343.	0.1	18
106	An Analysis of ENSO Prediction Skill in the CFS Retrospective Forecasts. Journal of Climate, 2009, 22, 1801-1818.	3.2	29
107	Internal Atmospheric Variability and Interannual-to-Decadal ENSO Variability in a CGCM. Journal of Climate, 2009, 22, 2335-2355.	3.2	8
108	The modulated annual cycle: an alternative reference frame for climate anomalies. Climate Dynamics, 2008, 31, 823-841.	3.8	140

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109	An asymmetric mode of tropical Indian Ocean rainfall variability in boreal spring. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	129
110	Nonlinear Dynamics in the Geosciences. <i>Eos</i> , 2008, 89, 334-334.	0.1	0
111	Decadal Modulation of ENSO in a Hybrid Coupled Model. <i>Journal of Climate</i> , 2008, 21, 5482-5500.	3.2	21
112	The Low-Frequency Relationship of the Tropical "North Pacific Sea Surface Temperature Teleconnections. <i>Journal of Climate</i> , 2008, 21, 3416-3432.	3.2	3
113	The Influence of Atmospheric Noise and Uncertainty in Ocean Initial Conditions on the Limit of Predictability in a Coupled GCM. <i>Journal of Climate</i> , 2008, 21, 3487-3503.	3.2	23
114	The Impact of Air "Sea Interactions on the Simulation of Tropical Intraseasonal Variability. <i>Journal of Climate</i> , 2008, 21, 6616-6635.	3.2	65
115	Local versus non-local atmospheric weather noise and the North Pacific SST variability. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	8
116	Surface latent heat flux and its relationship with sea surface temperature in the National Centers for Environmental Prediction Climate Forecast System simulations and retrospective forecasts. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	31
117	Impact of the Indian Ocean on ENSO variability in a hybrid coupled model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 445-457.	2.7	10
118	Regimes of seasonal air "sea interaction and implications for performance of forced simulations. <i>Climate Dynamics</i> , 2007, 29, 393-410.	3.8	133
119	ENSO amplitude changes in climate change commitment to atmospheric CO2 doubling. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	16
120	Origin of decadal El Ni "Southern Oscillation "like variability in a coupled general circulation model. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	17
121	Local Air "Sea Relationship in Observations and Model Simulations. <i>Journal of Climate</i> , 2006, 19, 4914-4932.	3.2	245
122	Roles of Indian and Pacific Ocean air "sea coupling in tropical atmospheric variability. <i>Climate Dynamics</i> , 2005, 25, 155-170.	3.8	177
123	Internal Atmospheric Dynamics and Tropical Indo-Pacific Climate Variability. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 2220-2233.	1.7	48
124	The impact of internal atmospheric variability on the North Pacific SST variability. <i>Climate Dynamics</i> , 2004, 22, 721-732.	3.8	31
125	Causes of low frequency North Atlantic SST variability in a coupled GCM. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	17
126	Decadal North Pacific sea surface temperature variability and the associated global climate anomalies in a coupled general circulation model. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	13

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127	Impacts of the Indian Ocean on the Indian Summer Monsoonâ€“ENSO Relationship. <i>Journal of Climate</i> , 2004, 17, 3037-3054.	3.2	92
128	On the impacts of the Indian summer monsoon on ENSO in a coupled GCM. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003, 129, 3439-3468.	2.7	55
129	Evolution of ENSO-Related Rainfall Anomalies in East Asia. <i>Journal of Climate</i> , 2003, 16, 3742-3758.	3.2	577
130	The COLA Anomaly Coupled Model: Ensemble ENSO Prediction. <i>Monthly Weather Review</i> , 2003, 131, 2324-2341.	1.4	78
131	Interactive coupled ensemble: A new coupling strategy for CGCMs. <i>Geophysical Research Letters</i> , 2002, 29, 5-1-5-4.	4.0	101
132	Impact of Tropical Subseasonal SST Variability on Seasonal Mean Climate Simulations. <i>Monthly Weather Review</i> , 2001, 129, 853-868.	1.4	22
133	Decadal Variability in ENSO Predictability and Prediction. <i>Journal of Climate</i> , 1998, 11, 2804-2822.	3.2	226
134	Oceanic Rossby Wave Dynamics and the ENSO Period in a Coupled Model. <i>Journal of Climate</i> , 1997, 10, 1690-1704.	3.2	145
135	Internal Climate Variability in the Present Climate and the Change in ENSO Amplitude in Future Climate Simulations. <i>Frontiers in Climate</i> , 0, 4, .	2.8	2