

# 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	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
2	Decadal Prediction. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 1467-1486.	3.3	662
3	Evolution of ENSO-Related Rainfall Anomalies in East Asia. <i>Journal of Climate</i> , 2003, 16, 3742-3758.	3.2	577
4	A U.S. CLIVAR Project to Assess and Compare the Responses of Global Climate Models to Drought-Related SST Forcing Patterns: Overview and Results. <i>Journal of Climate</i> , 2009, 22, 5251-5272.	3.2	282
5	A verification framework for interannual-to-decadal predictions experiments. <i>Climate Dynamics</i> , 2013, 40, 245-272.	3.8	254
6	Local Air–Sea Relationship in Observations and Model Simulations. <i>Journal of Climate</i> , 2006, 19, 4914-4932.	3.2	245
7	Decadal Variability in ENSO Predictability and Prediction. <i>Journal of Climate</i> , 1998, 11, 2804-2822.	3.2	226
8	Impact of ocean model resolution on CCSM climate simulations. <i>Climate Dynamics</i> , 2012, 39, 1303-1328.	3.8	181
9	Roles of Indian and Pacific Ocean air–sea coupling in tropical atmospheric variability. <i>Climate Dynamics</i> , 2005, 25, 155-170.	3.8	177
10	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
11	Collaboration of the Weather and Climate Communities to Advance Subseasonal-to-Seasonal Prediction. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 1397-1406.	3.3	168
12	The Subseasonal Experiment (SubX): A Multimodel Subseasonal Prediction Experiment. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 2043-2060.	3.3	153
13	Oceanic Rossby Wave Dynamics and the ENSO Period in a Coupled Model. <i>Journal of Climate</i> , 1997, 10, 1690-1704.	3.2	145
14	The modulated annual cycle: an alternative reference frame for climate anomalies. <i>Climate Dynamics</i> , 2008, 31, 823-841.	3.8	140
15	A Unified Modeling Approach to Climate System Prediction. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 1819-1832.	3.3	140
16	Regimes of seasonal air–sea interaction and implications for performance of forced simulations. <i>Climate Dynamics</i> , 2007, 29, 393-410.	3.8	133
17	An asymmetric mode of tropical Indian Ocean rainfall variability in boreal spring. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	129
18	Distinguishing the Roles of Natural and Anthropogenically Forced Decadal Climate Variability. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, 141-156.	3.3	125

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19	What is the current state of scientific knowledge with regard to seasonal and decadal forecasting?. Environmental Research Letters, 2012, 7, 015602.	5.2	124
20	Windows of Opportunity for Skillful Forecasts Subseasonal to Seasonal and Beyond. Bulletin of the American Meteorological Society, 2020, 101, E608-E625.	3.3	124
21	Multimodel Ensemble ENSO Prediction with CCSM and CFS. Monthly Weather Review, 2009, 137, 2908-2930.	1.4	122
22	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. Bulletin of the American Meteorological Society, 2016, 97, 2305-2328.	3.3	116
23	Current and Emerging Developments in Subseasonal to Decadal Prediction. Bulletin of the American Meteorological Society, 2020, 101, E869-E896.	3.3	116
24	Real-time multi-model decadal climate predictions. Climate Dynamics, 2013, 41, 2875-2888.	3.8	111
25	Interactive coupled ensemble: A new coupling strategy for CGCMs. Geophysical Research Letters, 2002, 29, 5-1-5-4.	4.0	101
26	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
27	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
28	Impacts of the Indian Ocean on the Indian Summer Monsoon-ENSO Relationship. Journal of Climate, 2004, 17, 3037-3054.	3.2	92
29	The Pacific Meridional Mode as an ENSO Precursor and Predictor in the North American Multimodel Ensemble. Journal of Climate, 2014, 27, 7018-7032.	3.2	90
30	Initialized Earth System prediction from subseasonal to decadal timescales. Nature Reviews Earth & Environment, 2021, 2, 340-357.	29.7	85
31	WWBs, ENSO predictability, the spring barrier and extreme events. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10,114.	3.3	80
32	The COLA Anomaly Coupled Model: Ensemble ENSO Prediction. Monthly Weather Review, 2003, 131, 2324-2341.	1.4	78
33	Why the Southern Hemisphere ENSO responses lead ENSO. Journal of Geophysical Research, 2009, 114, .	3.3	68
34	The Impact of Air-Sea Interactions on the Simulation of Tropical Intraseasonal Variability. Journal of Climate, 2008, 21, 6616-6635.	3.2	65
35	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
36	Atlantic near-term climate variability and the role of a resolved Gulf Stream. Geophysical Research Letters, 2016, 43, 3964-3972.	4.0	61

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37	Role of the Indian Ocean in the ENSOâ€“Indian Summer Monsoon Teleconnection in the NCEP Climate Forecast System. <i>Journal of Climate</i> , 2012, 25, 2490-2508.	3.2	59
38	The Impact of Anthropogenic Climate Change on North Atlantic Tropical Cyclone Tracks*. <i>Journal of Climate</i> , 2013, 26, 4088-4095.	3.2	58
39	North American rainfall and temperature prediction response to the diversity of ENSO. <i>Climate Dynamics</i> , 2016, 46, 3007-3023.	3.8	56
40	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
41	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
42	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
43	Internal Atmospheric Dynamics and Tropical Indo-Pacific Climate Variability. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 2220-2233.	1.7	48
44	Impact of interactive westerly wind bursts on CCSM3. <i>Dynamics of Atmospheres and Oceans</i> , 2013, 59, 24-51.	1.8	48
45	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
46	Varied representation of the Atlantic Meridional Overturning across multidecadal ocean reanalyses. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1848-1857.	1.4	42
47	Importance of ocean mesoscale variability for airâ€“sea interactions in the Gulf of Mexico. <i>Geophysical Research Letters</i> , 2017, 44, 6352-6362.	4.0	41
48	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
49	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
50	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
51	Drivers of coupled model ENSO error dynamics and the spring predictability barrier. <i>Climate Dynamics</i> , 2017, 48, 3631-3644.	3.8	36
52	Westerly wind bursts and the diversity of ENSO in CCSM3 and CCSM4. <i>Geophysical Research Letters</i> , 2013, 40, 4722-4727.	4.0	35
53	Cloud Radiative Feedbacks and El NiÃ±oâ€“Southern Oscillation. <i>Journal of Climate</i> , 2019, 32, 4661-4680.	3.2	35
54	The Impact of Land Surface and Atmospheric Initialization on Seasonal Forecasts with CCSM. <i>Journal of Climate</i> , 2012, 25, 1007-1021.	3.2	34

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55	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
56	The impact of internal atmospheric variability on the North Pacific SST variability. <i>Climate Dynamics</i> , 2004, 22, 721-732.	3.8	31
57	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
58	Southeastern U.S. Rainfall Prediction in the North American Multi-Model Ensemble. <i>Journal of Hydrometeorology</i> , 2014, 15, 529-550.	1.9	31
59	How MJO Teleconnections and ENSO Interference Impacts U.S. Precipitation. <i>Journal of Climate</i> , 2020, 33, 4621-4640.	3.2	31
60	Evolution of the North American Multi-Model Ensemble. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087408.	4.0	31
61	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
62	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
63	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
64	An Analysis of ENSO Prediction Skill in the CFS Retrospective Forecasts. <i>Journal of Climate</i> , 2009, 22, 1801-1818.	3.2	29
65	Quantifying Agulhas Leakage in a High-Resolution Climate Model. <i>Journal of Climate</i> , 2016, 29, 6881-6892.	3.2	25
66	Understanding the Signal-to-Noise Paradox with a Simple Markov Model. <i>Geophysical Research Letters</i> , 2019, 46, 13308-13317.	4.0	25
67	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
68	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
69	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
70	Impact of Tropical Subseasonal SST Variability on Seasonal Mean Climate Simulations. <i>Monthly Weather Review</i> , 2001, 129, 853-868.	1.4	22
71	Can we predict seasonal changes in high impact weather in the United States?. <i>Environmental Research Letters</i> , 2016, 11, 074018.	5.2	22
72	Ocean eddies and climate predictability. <i>Chaos</i> , 2017, 27, 126902.	2.5	22

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73	Decadal Modulation of ENSO in a Hybrid Coupled Model. <i>Journal of Climate</i> , 2008, 21, 5482-5500.	3.2	21
74	Linking preconditioning to extreme ENSO events and reduced ensemble spread. <i>Climate Dynamics</i> , 2019, 52, 7417-7433.	3.8	20
75	Dynamic and Thermodynamic Modulators of European Atmospheric Rivers. <i>Journal of Climate</i> , 2020, 33, 4167-4185.	3.2	20
76	Evaluation of Weather Noise and Its Role in Climate Model Simulations*. <i>Journal of Climate</i> , 2013, 26, 3766-3784.	3.2	19
77	The Urgent Need for Improved Climate Models and Predictions. <i>Eos</i> , 2009, 90, 343-343.	0.1	18
78	How weather impacts the forced climate response. <i>Climate Dynamics</i> , 2011, 37, 2389-2416.	3.8	18
79	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
80	Origin of decadal El Niño–Southern Oscillation–like variability in a coupled general circulation model. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	17
81	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
82	Understanding the signal-to-noise paradox in decadal climate predictability from CMIP5 and an eddying global coupled model. <i>Climate Dynamics</i> , 2021, 56, 2895-2913.	3.8	17
83	ENSO amplitude changes in climate change commitment to atmospheric CO <sub>2</sub> doubling. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	16
84	Toward linking weather and climate in the interactive ensemble NCAR climate model. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	16
85	Interannual Agulhas Leakage Variability and Its Regional Climate Imprints. <i>Journal of Climate</i> , 2018, 31, 10105-10121.	3.2	16
86	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
87	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
88	Forecasting Remote Atmospheric Responses to Decadal Kuroshio Stability Transitions. <i>Journal of Climate</i> , 2021, 34, 379-395.	3.2	16
89	How the annual cycle affects the extratropical response to ENSO. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	15
90	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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91	The impact of ENSO periodicity on North Pacific SST variability. <i>Climate Dynamics</i> , 2010, 34, 1015-1039.	3.8	13
92	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
93	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
94	Prediction from Weeks to Decades. , 2013, , 205-235.		13
95	ENSO modulation of tropical Indian Ocean subseasonal variability. <i>Geophysical Research Letters</i> , 2016, 43, 12,634.	4.0	12
96	A study of mesoscale airâ€œsea interaction in the Southern Ocean with a regional coupled model. <i>Ocean Modelling</i> , 2020, 153, 101660.	2.4	11
97	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
98	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
99	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
100	Predictability of Midsummer Great Plains Low-Level Jet and Associated Precipitation. <i>Weather and Forecasting</i> , 2020, 35, 215-235.	1.4	10
101	A possible explanation on the changes in the spatial structure of ENSO from CMIP3 to CMIP5. <i>Geophysical Research Letters</i> , 2014, 41, 140-145.	4.0	9
102	Tropical Pacific internal atmospheric dynamics and resolution in a coupled GCM. <i>Climate Dynamics</i> , 2015, 44, 509-527.	3.8	9
103	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
104	Seasonal forecasting of winds, waves and currents in the North Pacific. <i>Journal of Operational Oceanography</i> , 2018, 11, 11-26.	1.2	9
105	Estimates of Decadal Climate Predictability From an Interactive Ensemble Model. <i>Geophysical Research Letters</i> , 2019, 46, 3387-3397.	4.0	9
106	Local versus nonâ€œlocal atmospheric weather noise and the North Pacific SST variability. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	8
107	Internal Atmospheric Variability and Interannual-to-Decadal ENSO Variability in a CGCM. <i>Journal of Climate</i> , 2009, 22, 2335-2355.	3.2	8
108	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

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109	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
110	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
111	Impact of Ocean Eddy Resolution on the Sensitivity of Precipitation to CO <sub>2</sub> Increase. <i>Geophysical Research Letters</i> , 2018, 45, 7194-7203.	4.0	8
112	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
113	WHY CLIMATE MODELERS SHOULD WORRY ABOUT ATMOSPHERIC AND OCEANIC WEATHER. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2011, , 511-523.	0.2	8
114	Understanding Intermodel Diversity When Simulating the Time of Emergence in CMIP5 Climate Models. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087923.	4.0	7
115	Subseasonal Variability of Elevated Dust Concentrations Over South Florida. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031874.	3.3	7
116	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
117	Florida Climate Variability and Prediction. , 2017, , .		7
118	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
119	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
120	The Ocean's Role in Modeling and Predicting Seasonal-to-Interannual Climate Variations. <i>International Geophysics</i> , 2013, 103, 625-643.	0.6	5
121	Extreme environmental forcing on the container ship SS El Faro. <i>Journal of Operational Oceanography</i> , 2021, 14, 98-113.	1.2	5
122	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
123	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
124	The extratropical sensitivity to the meridional extent of tropical ENSO forcing. <i>Climate Dynamics</i> , 2010, 34, 935-951.	3.8	3
125	The role of atmospheric internal variability on the tropical instability wave dynamics. <i>Journal of Geophysical Research</i> , 2012, 117, n/a-n/a.	3.3	3
126	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



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127	An efficient perturbed parameter scheme in the Lorenz system for quantifying model uncertainty. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2552-2562.	2.7	2
128	Assessment of uncertainty in multi-model means of downscaled South Florida precipitation for projected (2019–2099) climate. International Journal of Climatology, 2020, 40, 2764-2777.	3.5	2
129	The summer Asia–North America teleconnection and its modulation by ENSO in Community Atmosphere Model, version 5 (CAM5). Climate Dynamics, 2022, 59, 2213-2230.	3.8	2
130	Effects of grid spacing on high-frequency precipitation variance in coupled high-resolution global ocean–atmosphere models. Climate Dynamics, 2022, 59, 2887-2913.	3.8	2
131	Internal Climate Variability in the Present Climate and the Change in ENSO Amplitude in Future Climate Simulations. Frontiers in Climate, 0, 4, .	2.8	2
132	The Pacific decadal oscillation as a modulator of summertime North Atlantic Rossby wave breaking. Climate Dynamics, 2021, 56, 207-225.	3.8	1
133	Decadal Variability of Southeast US Rainfall in an Eddying Global Coupled Model. Geophysical Research Letters, 2022, 49, .	4.0	1
134	Nonlinear Dynamics in the Geosciences. Eos, 2008, 89, 334-334.	0.1	0
135	Saharan Dust Transport Predictability Utilizing a Subseasonal Experiment (SubX) Model. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033802.	3.3	0