

Bohua Huang

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114
papers

3,547
citations

36
h-index

54
g-index

116
ext. papers

3,908
ext. citations

3.9
avg, IF

5.53
L-index

#	Paper	IF	Citations
114	Warm Events in the Tropical Atlantic. <i>Journal of Physical Oceanography</i> , 1994 , 24, 888-903	2.4	178
113	Simulating the diurnal cycle of rainfall in global climate models: resolution versus parameterization. <i>Climate Dynamics</i> , 2012 , 39, 399-418	4.2	160
112	Interannual variability in the tropical Indian Ocean. <i>Journal of Geophysical Research</i> , 2002 , 107, 20-1		157
111	Tropical Cyclone Climatology in a 10-km Global Atmospheric GCM: Toward Weather-Resolving Climate Modeling. <i>Journal of Climate</i> , 2012 , 25, 3867-3893	4.4	136
110	Multiseasonal Predictions with a Coupled Tropical Ocean-Global Atmosphere System. <i>Monthly Weather Review</i> , 1997 , 125, 789-808	2.4	103
109	Interferential Impact of ENSO and PDO on Dry and Wet Conditions in the U.S. Great Plains. <i>Journal of Climate</i> , 2009 , 22, 6047-6065	4.4	96
108	Intrinsic Ocean-Atmosphere Variability of the Tropical Atlantic Ocean. <i>Journal of Climate</i> , 2004 , 17, 2058-2077	4.4	86
107	Evidence for Enhanced Land-Atmosphere Feedback in a Warming Climate. <i>Journal of Hydrometeorology</i> , 2012 , 13, 981-995	3.7	84
106	An analysis of warm pool and cold tongue El Niños: air-sea coupling processes, global influences, and recent trends. <i>Climate Dynamics</i> , 2012 , 38, 2017-2035	4.2	80
105	Ocean-Atmosphere Interactions in the Tropical and Subtropical Atlantic Ocean. <i>Journal of Climate</i> , 2005 , 18, 1652-1672	4.4	76
104	The ENSO effect on the tropical Atlantic variability: A regionally coupled model study. <i>Geophysical Research Letters</i> , 2002 , 29, 35-1	4.9	76
103	Evolution of model systematic errors in the Tropical Atlantic Basin from coupled climate hindcasts. <i>Climate Dynamics</i> , 2007 , 28, 661-682	4.2	71
102	Salinity anomaly as a trigger for ENSO events. <i>Scientific Reports</i> , 2014 , 4, 6821	4.9	67
101	Ensemble ENSO hindcasts initialized from multiple ocean analyses. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	64
100	The Rossby wave as a key mechanism of Indian Ocean climate variability. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004 , 51, 2123-2136	2.5	63
99	Persistence and Predictions of the Remarkable Warm Anomaly in the Northeastern Pacific Ocean during 2014-16. <i>Journal of Climate</i> , 2017 , 30, 689-702	4.4	61
98	The role of off-equatorial surface temperature anomalies in the 2014 El Niño prediction. <i>Scientific Reports</i> , 2016 , 6, 19677	4.9	60

97	Ocean Data Assimilation, Initialization, and Predictions of ENSO with a Coupled GCM. <i>Monthly Weather Review</i> , 1999 , 127, 1187-1207	4.2	54
96	Connection of stratospheric QBO with global atmospheric general circulation and tropical SST. Part I: methodology and composite life cycle. <i>Climate Dynamics</i> , 2012 , 38, 1-23	4.2	52
95	Predictable patterns of the Asian and Indo-Pacific summer precipitation in the NCEP CFS. <i>Climate Dynamics</i> , 2009 , 32, 989-1001	4.2	52
94	Role of the Indian Ocean in the ENSO Indian Summer Monsoon Teleconnection in the NCEP Climate Forecast System. <i>Journal of Climate</i> , 2012 , 25, 2490-2508	4.4	52
93	Ocean Wave Dynamics and El Niño. <i>Journal of Climate</i> , 1995 , 8, 2415-2439	4.4	49
92	Verification of land-atmosphere coupling in forecast models, reanalyses and land surface models using flux site observations. <i>Journal of Hydrometeorology</i> , 2018 , 19, 375-392	3.7	46
91	Mechanisms for the Interannual Variability in the Tropical Indian Ocean. Part I: The Role of Remote Forcing from the Tropical Pacific. <i>Journal of Climate</i> , 2007 , 20, 2917-2936	4.4	45
90	Future Changes in the Western North Pacific Tropical Cyclone Activity Projected by a Multidecadal Simulation with a 16-km Global Atmospheric GCM. <i>Journal of Climate</i> , 2014 , 27, 7622-7646	4.4	44
89	An ensemble estimation of the variability of upper-ocean heat content over the tropical Atlantic Ocean with multi-ocean reanalysis products. <i>Climate Dynamics</i> , 2012 , 39, 1001-1020	4.2	44
88	The influences of East Asian Monsoon on summer precipitation in Northeast China. <i>Climate Dynamics</i> , 2017 , 48, 1647-1659	4.2	42
87	The Predictive Skill and the Most Predictable Pattern in the Tropical Atlantic: The Effect of ENSO. <i>Monthly Weather Review</i> , 2007 , 135, 1786-1806	2.4	42
86	Seasonality in Prediction Skill and Predictable Pattern of Tropical Indian Ocean SST. <i>Journal of Climate</i> , 2015 , 28, 7962-7984	4.4	39
85	Characteristics of the Interannual and Decadal Variability in a General Circulation Model of the Tropical Atlantic Ocean. <i>Journal of Physical Oceanography</i> , 1997 , 27, 1693-1712	2.4	39
84	The influence of systematic errors in the Southeast Pacific on ENSO variability and prediction in a coupled GCM. <i>Climate Dynamics</i> , 2009 , 32, 1015-1034	4.2	38
83	Prediction skill of monthly SST in the North Atlantic Ocean in NCEP Climate Forecast System version 2. <i>Climate Dynamics</i> , 2013 , 40, 2745-2759	4.2	37
82	Variations of the East Asian Mei-Yu and Simulation and Prediction by the NCEP Climate Forecast System. <i>Journal of Climate</i> , 2011 , 24, 94-108	4.4	37
81	Mechanisms for the Interannual Variability in the Tropical Indian Ocean. Part II: Regional Processes. <i>Journal of Climate</i> , 2007 , 20, 2937-2960	4.4	37
80	Predictable patterns and predictive skills of monsoon precipitation in Northern Hemisphere summer in NCEP CFSv2 reforecasts. <i>Climate Dynamics</i> , 2013 , 40, 3071-3088	4.2	36

79	Physical Processes Associated with the Tropical Atlantic SST Gradient during the Anomalous Evolution in the Southeastern Ocean. <i>Journal of Climate</i> , 2007 , 20, 3366-3378	4.4	36
78	The relationship between thermocline depth and SST anomalies in the eastern equatorial Pacific: Seasonality and decadal variations. <i>Geophysical Research Letters</i> , 2015 , 42, 4507-4515	4.9	35
77	Interdecadal variations of ENSO around 1999/2000. <i>Journal of Meteorological Research</i> , 2017 , 31, 73-81	2.3	34
76	Persistent Atmospheric and Oceanic Anomalies in the North Atlantic from Summer 2009 to Summer 2010. <i>Journal of Climate</i> , 2011 , 24, 5812-5830	4.4	33
75	Climate drift of AMOC, North Atlantic salinity and arctic sea ice in CFSv2 decadal predictions. <i>Climate Dynamics</i> , 2015 , 44, 559-583	4.2	31
74	Annual Cycle and ENSO in a Coupled Ocean-Atmosphere General Circulation Model. <i>Monthly Weather Review</i> , 1997 , 125, 680-702	2.4	31
73	Physical Processes Associated with the Tropical Atlantic SST Meridional Gradient. <i>Journal of Climate</i> , 2006 , 19, 5500-5518	4.4	30
72	ENSO Prediction in Project Minerva: Sensitivity to Atmospheric Horizontal Resolution and Ensemble Size. <i>Journal of Climate</i> , 2015 , 28, 2080-2095	4.4	28
71	Reforecasting the ENSO Events in the Past 57 Years (1958-2014). <i>Journal of Climate</i> , 2017 , 30, 7669-7693	4.4	28
70	Low cloud errors over the southeastern Atlantic in the NCEP CFS and their association with lower-tropospheric stability and air-sea interaction. <i>Journal of Geophysical Research</i> , 2008 , 113,		28
69	Cloud-SST feedback in southeastern tropical Atlantic anomalous events. <i>Journal of Geophysical Research</i> , 2007 , 112,		28
68	Ocean data assimilation using intermittent analyses and continuous model error correction. <i>Advances in Atmospheric Sciences</i> , 2002 , 19, 965-992	2.9	28
67	The Interdecadal Shift of ENSO Properties in 1999/2000: A Review. <i>Journal of Climate</i> , 2020 , 33, 4441-4462	4.4	26
66	A Numerical Simulation of the Variability in the Tropical Atlantic Ocean, 1980-88. <i>Journal of Physical Oceanography</i> , 1995 , 25, 835-854	2.4	26
65	The Response of an Ocean General Circulation Model to Surface Wind Stress Produced by an Atmospheric General Circulation Model. <i>Monthly Weather Review</i> , 1995 , 123, 3059-3085	2.4	26
64	Improved reliability of ENSO hindcasts with multi-ocean analyses ensemble initialization. <i>Climate Dynamics</i> , 2013 , 41, 2785-2795	4.2	24
63	Prediction Skill of North Pacific Variability in NCEP Climate Forecast System Version 2: Impact of ENSO and Beyond. <i>Journal of Climate</i> , 2014 , 27, 4263-4272	4.4	24
62	On the variety of coastal El Niño events. <i>Climate Dynamics</i> , 2019 , 52, 7537-7552	4.2	23

61	Asymmetric evolution of El Niño and La Niña: the recharge/discharge processes and role of the off-equatorial sea surface height anomaly. <i>Climate Dynamics</i> , 2017 , 49, 2737-2748	4.2	23
60	On the Shortening of the Lead Time of Ocean Warm Water Volume to ENSO SST Since 2000. <i>Scientific Reports</i> , 2017 , 7, 4294	4.9	22
59	Predicting US summer precipitation using NCEP Climate Forecast System version 2 initialized by multiple ocean analyses. <i>Climate Dynamics</i> , 2013 , 41, 1941-1954	4.2	21
58	An Analysis of Forced and Internal Variability in a Warmer Climate in CCSM3. <i>Journal of Climate</i> , 2012 , 25, 2356-2373	4.4	21
57	On the Challenge for ENSO Cycle Prediction: An Example from NCEP Climate Forecast System, Version 2. <i>Journal of Climate</i> , 2019 , 32, 183-194	4.4	21
56	Importance of convective parameterization in ENSO predictions. <i>Geophysical Research Letters</i> , 2017 , 44, 6334-6342	4.9	20
55	AirSea coupling in the North Atlantic during summer. <i>Climate Dynamics</i> , 2006 , 26, 441-457	4.2	20
54	Sea Surface Temperature Predictions in NCEP CFSv2 Using a Simple Ocean Initialization Scheme. <i>Monthly Weather Review</i> , 2015 , 143, 3176-3191	2.4	19
53	The Role of Ocean Dynamics in the Interaction between the Atlantic Meridional and Equatorial Modes. <i>Journal of Climate</i> , 2012 , 25, 3583-3598	4.4	19
52	Spatial distribution and the interdecadal change of leading modes of heat budget of the mixed-layer in the tropical Pacific and the association with ENSO. <i>Climate Dynamics</i> , 2016 , 46, 1753-1768	4.2	18
51	Sensitivity of tropical climate to low-level clouds in the NCEP climate forecast system. <i>Climate Dynamics</i> , 2011 , 36, 1795-1811	4.2	18
50	Mean state and interannual variability of the Indian summer monsoon simulation by NCEP CFSv2. <i>Climate Dynamics</i> , 2016 , 46, 3845-3864	4.2	17
49	Connection of the stratospheric QBO with global atmospheric general circulation and tropical SST. Part II: interdecadal variations. <i>Climate Dynamics</i> , 2012 , 38, 25-43	4.2	17
48	South Pacific Ocean Dipole: A Predictable Mode on Multiseasonal Time Scales. <i>Journal of Climate</i> , 2014 , 27, 1648-1658	4.4	17
47	The Role of Reversed Equatorial Zonal Transport in Terminating an ENSO Event. <i>Journal of Climate</i> , 2016 , 29, 5859-5877	4.4	16
46	On the significance of the relationship between the North Atlantic Oscillation in early winter and Atlantic sea surface temperature anomalies. <i>Journal of Geophysical Research</i> , 2006 , 111,		16
45	Roles of Remote and Local Forcings in the Variation and Prediction of Regional Maritime Continent Rainfall in Wet and Dry Seasons. <i>Journal of Climate</i> , 2016 , 29, 8871-8879	4.4	16
44	Predictability and prediction of Indian summer monsoon by CFSv2: implication of the initial shock effect. <i>Climate Dynamics</i> , 2018 , 50, 159-178	4.2	15

43	Influences of tropical-extratropical interaction on the multidecadal AMOC variability in the NCEP climate forecast system. <i>Climate Dynamics</i> , 2012 , 39, 531-555	4.2	15
42	Interannual variability of the Indian summer monsoon associated with the air-sea feedback in the northern Indian Ocean. <i>Climate Dynamics</i> , 2016 , 46, 1977-1990	4.2	15
41	An Analysis of the Linkage of Pacific Subtropical Cells with the Recharge-Discharge Processes in ENSO Evolution. <i>Journal of Climate</i> , 2015 , 28, 3786-3805	4.4	14
40	Predictive Skill and Predictable Patterns of the U.S. Seasonal Precipitation in CFSv2 Reforecasts of 60 Years (1958-2017). <i>Journal of Climate</i> , 2019 , 32, 8603-8637	4.4	13
39	Improved seasonal predictive skill and enhanced predictability of the Asian summer monsoon rainfall following ENSO events in NCEP CFSv2 hindcasts. <i>Climate Dynamics</i> , 2019 , 52, 3079-3098	4.2	13
38	Slow and fast annual cycles of the Asian summer monsoon in the NCEP CFSv2. <i>Climate Dynamics</i> , 2016 , 47, 529-553	4.2	12
37	Seasonal predictability of the tropical Atlantic variability: northern tropical Atlantic pattern. <i>Climate Dynamics</i> , 2019 , 52, 6909-6929	4.2	11
36	Regional Structure of the Indian Summer Monsoon in Observations, Reanalysis, and Simulation. <i>Journal of Climate</i> , 2015 , 28, 1824-1841	4.4	11
35	Sensitivity of the tropical Pacific seasonal cycle and ENSO to changes in mean state induced by a surface heat flux adjustment in CCSM3. <i>Climate Dynamics</i> , 2011 , 37, 325-341	4.2	11
34	Contributions of Atmosphere-Ocean Interaction and Low-Frequency Variation to Intensity of Strong El Niño Events since 1979. <i>Journal of Climate</i> , 2019 , 32, 1381-1394	4.4	11
33	Leading Modes of the Upper-Ocean Temperature Interannual Variability along the Equatorial Atlantic Ocean in NCEP GODAS. <i>Journal of Climate</i> , 2013 , 26, 4649-4663	4.4	10
32	A New Look at the Physics of Rossby Waves: A Mechanical-Coriolis Oscillation. <i>Journals of the Atmospheric Sciences</i> , 2013 , 70, 303-316	2.1	10
31	Leading patterns of the tropical Atlantic variability in a coupled general circulation model. <i>Climate Dynamics</i> , 2008 , 30, 703-726	4.2	10
30	A spurious warming trend in the NMME equatorial Pacific SST hindcasts. <i>Climate Dynamics</i> , 2019 , 53, 7287-7303	4.2	9
29	A multi-model analysis of the resolution influence on precipitation climatology in the Gulf Stream region. <i>Climate Dynamics</i> , 2017 , 48, 1685-1704	4.2	8
28	Seasonal dependence of the predictable low-level circulation patterns over the tropical Indo-Pacific domain. <i>Climate Dynamics</i> , 2018 , 50, 4263-4284	4.2	8
27	Evaluation of the CFSv2 CMIP5 decadal predictions. <i>Climate Dynamics</i> , 2015 , 44, 543-557	4.2	8
26	Monthly Climatologies of Oceanic Friction Velocity Cubed. <i>Journal of Climate</i> , 2006 , 19, 5700-5708	4.4	8

25	Role of Atlantic air-sea interaction in modulating the effect of Tibetan Plateau heating on the upstream climate over Afro-Eurasia and Atlantic regions. <i>Climate Dynamics</i> , 2019 , 53, 509-519	4.2	8
24	Predictable Patterns of the Atmospheric Low-Level Circulation over the Indo-Pacific Region in Project Minerva: Seasonal Dependence and Intraensemble Variability. <i>Journal of Climate</i> , 2018 , 31, 8351-8379	4.4	7
23	Improving prediction of two ENSO types using a multi-model ensemble based on stepwise pattern projection model. <i>Climate Dynamics</i> , 2020 , 54, 3229-3243	4.2	6
22	The Influence of Summer Deep Soil Temperature on Early Winter Snow Conditions in Eurasia in the NCEP CFSv2 Simulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 9062-9077	4.4	6
21	A Comparison of Two Surface Wind Stress Analyses over the Tropical Atlantic during 1980-1987. <i>Journal of Climate</i> , 1996 , 9, 906-927	4.4	6
20	Does vertical temperature gradient of the atmosphere matter for El Niño development?. <i>Climate Dynamics</i> , 2017 , 48, 1413-1429	4.2	5
19	Climatological influence of Eurasian winter surface conditions on the Asian and Indo-Pacific summer circulation in the NCEP CFSv2 seasonal reforecasts. <i>International Journal of Climatology</i> , 2019 , 39, 3431-3453	3.5	5
18	A Dissection of Energetics of the Geostrophic Flow: Reconciliation of Rossby Wave Energy Flux and Group Velocity. <i>Journals of the Atmospheric Sciences</i> , 2013 , 70, 2179-2196	2.1	5
17	The relative roles of decadal climate variations and changes in the ocean observing system on seasonal prediction skill of tropical Pacific SST. <i>Climate Dynamics</i> , 2021 , 56, 3045-3063	4.2	5
16	Interannual variability of the South Pacific Ocean in observations and simulated by the NCEP Climate Forecast System, version 2. <i>Climate Dynamics</i> , 2014 , 43, 1141-1157	4.2	4
15	An Examination of the AGCM Simulated Surface Wind Stress and Low-Level Winds over the Tropical Pacific Ocean. <i>Monthly Weather Review</i> , 1997 , 125, 985-998	2.4	4
14	On the Interdecadal Variation of the Warm Water Volume in the Tropical Pacific Around 1999/2000. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD033306	4.4	4
13	Dynamical and Thermodynamical Influences of the Maritime Continent on ENSO Evolution. <i>Scientific Reports</i> , 2018 , 8, 15352	4.9	4
12	Combined Role of High- and Low-Frequency Processes of Equatorial Zonal Transport in Terminating an ENSO Event. <i>Journal of Climate</i> , 2018 , 31, 5461-5483	4.4	4
11	Representation of Ocean-Atmosphere Processes Associated with Extended Monsoon Episodes over South Asia in CFSv2. <i>Frontiers in Earth Science</i> , 2018 , 6,	3.5	3
10	Seasonal Forecasting Skill of Sea-Level Anomalies in a Multi-Model Prediction Framework. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2020JC017060	3.3	3
9	Seasonal prediction skill and predictability of the Northern Hemisphere storm track variability in Project Minerva. <i>Climate Dynamics</i> , 2019 , 52, 6427-6440	4.2	3
8	An examination of the Northern Hemisphere mid-latitude storm track interannual variability simulated by climate models-sensitivity to model resolution and coupling. <i>Climate Dynamics</i> , 2019 , 52, 4247-4268	4.2	2

7	Sensitivity of U.S. Drought Prediction Skill to Land Initial States. <i>Journal of Hydrometeorology</i> , 2020 , 21, 2793-2811	3.7	2
6	Cumulative Influence of Summer Subsurface Soil Temperature on North America Surface Temperature in the CFSv2. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031899	4.4	2
5	Seasonally-dependent impact of easterly wind bursts on the development of El Niño events. <i>Climate Dynamics</i> , 2019 , 53, 1527-1546	4.2	1
4	Subannual to Interannual Variabilities of SST in the North Atlantic Ocean. <i>Journal of Climate</i> , 2020 , 33, 5547-5564	4.4	1
3	Impact of Land Initial States Uncertainty on Subseasonal Surface Air Temperature Prediction in CFSv2 Reforecasts. <i>Journal of Hydrometeorology</i> , 2020 , 21, 2101-2121	3.7	1
2	Bulk connectivity of global SST and land precipitation variations. <i>Climate Dynamics</i> , 1	4.2	1
1	Oceanic meridional transports and their roles in warm water volume variability and ENSO in the tropical Pacific. <i>Climate Dynamics</i> , 1	4.2	0