Gabriel A Vecchi

List of Publications by Citations

248 papers	24,017 citations	78 h-index	151 g-index
263 ext. papers	27,364 ext. citations	7.4 avg, IF	7.29 L-index

#	Paper	IF	Citations
248	Model projections of an imminent transition to a more arid climate in southwestern North America. *Science*, **2007**, 316, 1181-4	33.3	1571
247	Increasing frequency of extreme El Niño events due to greenhouse warming. *Nature Climate Change*, **2014**, 4, 111-116	21.4	1181
246	Global Warming and the Weakening of the Tropical Circulation. *Journal of Climate*, **2007**, 20, 4316-4340	4.4	905
245	The impact of global warming on the tropical Pacific Ocean and El Niño. *Nature Geoscience*, **2010**, 3, 391-397	28.3	828
244	Weakening of tropical Pacific atmospheric circulation due to anthropogenic forcing. *Nature*, **2006**, 441, 73-6	50.4	749
243	Global Warming Pattern Formation: Sea Surface Temperature and Rainfall*. *Journal of Climate*, **2010**, 23, 966-986	4.4	746
242	Modeled impact of anthropogenic warming on the frequency of intense Atlantic hurricanes. *Science* , **2010**, 327, 454-8	33.3	706
241	Thermodynamic and Dynamic Mechanisms for Large-Scale Changes in the Hydrological Cycle in Response to Global Warming*. *Journal of Climate*, **2010**, 23, 4651-4668	4.4	514
240	Expansion of the Hadley cell under global warming. *Geophysical Research Letters*, **2007**, 34,	4.9	475
239	Simulations of Global Hurricane Climatology, Interannual Variability, and Response to Global Warming Using a 50-km Resolution GCM. *Journal of Climate*, **2009**, 22, 6653-6678	4.4	462
238	ENSO and greenhouse warming. *Nature Climate Change*, **2015**, 5, 849-859	21.4	441
237	Simulated Climate and Climate Change in the GFDL CM2.5 High-Resolution Coupled Climate Model. *Journal of Climate*, **2012**, 25, 2755-2781	4.4	395
236	Increased frequency of extreme La Niña events under greenhouse warming. *Nature Climate Change* , **2015**, 5, 132-137	21.4	382
235	Greenhouse warming and the 21st century hydroclimate of southwestern North America. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 21277-82	11.5	370
234	Decadal Climate Prediction: An Update from the Trenches. *Bulletin of the American Meteorological Society*, **2014**, 95, 243-267	6.1	364
233	The poleward migration of the location of tropical cyclone maximum intensity. *Nature*, **2014**, 509, 349-52	50.4	354
232	Effect of remote sea surface temperature change on tropical cyclone potential intensity. *Nature*, **2007**, 450, 1066-70	50.4	314

231	On the Seasonal Forecasting of Regional Tropical Cyclone Activity. *Journal of Climate*, **2014**, 27, 7994-8016	4.4	285
230	Simulated reduction in Atlantic hurricane frequency under twenty-first-century warming conditions. *Nature Geoscience*, **2008**, 1, 359-364	18.3	276
229	Global Projections of Intense Tropical Cyclone Activity for the Late Twenty-First Century from Dynamical Downscaling of CMIP5/RCP4.5 Scenarios. *Journal of Climate*, **2015**, 28, 7203-7224	4.4	256
228	Dynamical Downscaling Projections of Twenty-First-Century Atlantic Hurricane Activity: CMIP3 and CMIP5 Model-Based Scenarios. *Journal of Climate*, **2013**, 26, 6591-6617	4.4	253
227	GFDL's CM2 Global Coupled Climate Models. Part II: The Baseline Ocean Simulation. *Journal of Climate*, **2006**, 19, 675-697	4.4	247
226	Enhanced warming of the Northwest Atlantic Ocean under climate change. *Journal of Geophysical Research: Oceans*, **2016**, 121, 118-132	3.3	246
225	Have Aerosols Caused the Observed Atlantic Multidecadal Variability?. *Journals of the Atmospheric Sciences*, **2013**, 70, 1135-1144	2.1	240
224	On the use of IPCC-class models to assess the impact of climate on Living Marine Resources. *Progress in Oceanography*, **2011**, 88, 1-27	3.8	227
223	Climate Response of the Equatorial Pacific to Global Warming. *Journal of Climate*, **2009**, 22, 4873-4892	4.4	226
222	Urbanization exacerbated the rainfall and flooding caused by hurricane Harvey in Houston. *Nature*, **2018**, 563, 384-388	50.4	212
221	Increased tropical Atlantic wind shear in model projections of global warming. *Geophysical Research Letters*, **2007**, 34,	4.9	204
220	Attribution of extreme rainfall from Hurricane Harvey, August 2017. *Environmental Research Letters* , **2017**, 12, 124009	6.2	203
219	Origin of seasonal predictability for summer climate over the Northwestern Pacific. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 7574-9	11.5	203
218	Towards predictive understanding of regional climate change. *Nature Climate Change*, **2015**, 5, 921-930	21.4	196
217	Monsoon Breaks and Subseasonal Sea Surface Temperature Variability in the Bay of Bengal*. *Journal of Climate*, **2002**, 15, 1485-1493	4.4	189
216	On Estimates of Historical North Atlantic Tropical Cyclone Activity*. *Journal of Climate*, **2008**, 21, 3580-3600	4.4	186
215	Susceptible supply limits the role of climate in the early SARS-CoV-2 pandemic. *Science*, **2020**, 369, 315-319	33.3	180
214	Impact of Duration Thresholds on Atlantic Tropical Cyclone Counts*. *Journal of Climate*, **2010**, 23, 2508-2519	4.4	178

213	Examining the Tropical Pacific's Response to Global Warming. *Eos*, **2008**, 89, 81-83	1.5	174
212	Tropical Pacific Sea Surface Temperature Anomalies, El Niño, and Equatorial Westerly Wind Events*. *Journal of Climate*, **2000**, 13, 1814-1830	4.4	160
211	Climate change. Whither hurricane activity?. *Science*, **2008**, 322, 687-9	33.3	149
210	Simulation and Prediction of Category 4 and 5 Hurricanes in the High-Resolution GFDL HiFLOR Coupled Climate Model*. *Journal of Climate*, **2015**, 28, 9058-9079	4.4	148
209	The North Atlantic Oscillation as a driver of rapid climate change in the Northern Hemisphere. *Nature Geoscience*, **2016**, 9, 509-512	18.3	140
208	Westerly Wind Events in the Tropical Pacific, 1986–95*. *Journal of Climate*, **1997**, 10, 3131-3156	4.4	138
207	Improved Seasonal Prediction of Temperature and Precipitation over Land in a High-Resolution GFDL Climate Model. *Journal of Climate*, **2015**, 28, 2044-2062	4.4	133
206	El Niño and our future climate: where do we stand?. *Wiley Interdisciplinary Reviews: Climate Change*, **2010**, 1, 260-270	8.4	130
205	Hurricanes and Climate: The U.S. CLIVAR Working Group on Hurricanes. *Bulletin of the American Meteorological Society*, **2015**, 96, 997-1017	6.1	127
204	Changing Frequency of Heavy Rainfall over the Central United States. *Journal of Climate*, **2013**, 26, 351-357	4.4	124
203	Projected Increases in North Atlantic Tropical Cyclone Intensity from CMIP5 Models. *Journal of Climate*, **2013**, 26, 3231-3240	4.4	124
202	The Influence of the Madden–Julian Oscillation on Precipitation in Oregon and Washington*. *Weather and Forecasting*, **2003**, 18, 600-613	2.1	119
201	The impact of COVID-19 nonpharmaceutical interventions on the future dynamics of endemic infections. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 30547-30553	11.5	116
200	Managing living marine resources in a dynamic environment: The role of seasonal to decadal climate forecasts. *Progress in Oceanography*, **2017**, 152, 15-49	3.8	114
199	Statistical–Dynamical Predictions of Seasonal North Atlantic Hurricane Activity. *Monthly Weather Review*, **2011**, 139, 1070-1082	2.4	113
198	Near-term Climate Change: Projections and Predictability953-1028		111
197	Observational Evidence for Oceanic Controls on Hurricane Intensity. *Journal of Climate*, **2011**, 24, 1138-1153	4.4	111
196	On the termination of El Niño. *Geophysical Research Letters*, **1999**, 26, 1593-1596	4.9	111

195	Estimating Annual Numbers of Atlantic Hurricanes Missing from the HURDAT Database (1878–1965) Using Ship Track Density. *Journal of Climate*, **2011**, 24, 1736-1746	4.4	110
194	Indian Ocean Dipole Response to Global Warming: Analysis of Ocean–Atmospheric Feedbacks in a Coupled Model*. *Journal of Climate*, **2010**, 23, 1240-1253	4.4	109
193	The vertical distribution of cloud feedback in coupled ocean-atmosphere models. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	108
192	Twenty-first-century projections of North Atlantic tropical storms from CMIP5 models. *Nature Climate Change*, **2012**, 2, 604-607	21.4	106
191	ENSO Modulation: Is It Decadally Predictable?. *Journal of Climate*, **2014**, 27, 2667-2681	4.4	105
190	Rapid attribution of the August 2016 flood-inducing extreme precipitation in south Louisiana to climate change. *Hydrology and Earth System Sciences*, **2017**, 21, 897-921	5.5	104
189	Projected Response of Tropical Cyclone Intensity and Intensification in a Global Climate Model. *Journal of Climate*, **2018**, 31, 8281-8303	4.4	101
188	The Central Role of Ocean Dynamics in Connecting the North Atlantic Oscillation to the Extratropical Component of the Atlantic Multidecadal Oscillation. *Journal of Climate*, **2017**, 30, 3789-3805	4.4	97
187	Contribution of Tropical Cyclones to Rainfall at the Global Scale. *Journal of Climate*, **2017**, 30, 359-372	4.4	97
186	ENSO Transition, Duration, and Amplitude Asymmetries: Role of the Nonlinear Wind Stress Coupling in a Conceptual Model. *Journal of Climate*, **2013**, 26, 9462-9476	4.4	97
185	Ocean-Atmosphere Interactions During Cyclone Nargis. *Eos*, **2009**, 90, 53-54	1.5	95
184	Tropical Cyclone Simulation and Response to CO2 Doubling in the GFDL CM2.5 High-Resolution Coupled Climate Model. *Journal of Climate*, **2014**, 27, 8034-8054	4.4	89
183	Testing the Performance of Tropical Cyclone Genesis Indices in Future Climates Using the HiRAM Model. *Journal of Climate*, **2014**, 27, 9171-9196	4.4	88
182	A Predictable AMO-Like Pattern in the GFDL Fully Coupled Ensemble Initialization and Decadal Forecasting System. *Journal of Climate*, **2013**, 26, 650-661	4.4	88
181	Halving warming with idealized solar geoengineering moderates key climate hazards. *Nature Climate Change*, **2019**, 9, 295-299	21.4	87
180	Modeling the Dependence of Tropical Storm Counts in the North Atlantic Basin on Climate Indices. *Monthly Weather Review*, **2010**, 138, 2681-2705	2.4	86
179	The Pacific Meridional Mode and the Occurrence of Tropical Cyclones in the Western North Pacific. *Journal of Climate*, **2016**, 29, 381-398	4.4	85
178	Mean Climate Controls on the Simulated Response of ENSO to Increasing Greenhouse Gases. *Journal of Climate*, **2012**, 25, 7399-7420	4.4	85

177	Increasing frequency of extremely severe cyclonic storms over the Arabian Sea. *Nature Climate Change*, **2017**, 7, 885-889	21.4	84
176	Ocean–Atmosphere Covariability in the Western Arabian Sea*. *Journal of Climate*, **2004**, 17, 1213-1224	4.4	83
175	North Atlantic Tropical Cyclones and U.S. Flooding. *Bulletin of the American Meteorological Society*, **2014**, 95, 1381-1388	6.1	82
174	Joint projections of US East Coast sea level and storm surge. *Nature Climate Change*, **2015**, 5, 1114-1120	21.4	81
173	Seasonality and Predictability of the Indian Ocean Dipole Mode: ENSO Forcing and Internal Variability. *Journal of Climate*, **2015**, 28, 8021-8036	4.4	81
172	The Madden-Julian Oscillation (MJO) and northern high latitude wintertime surface air temperatures. *Geophysical Research Letters*, **2004**, 31,	4.9	81
171	Sensitivity of Tropical Cyclone Rainfall to Idealized Global-Scale Forcings*. *Journal of Climate*, **2014**, 27, 4622-4641	4.4	78
170	A Link between the Hiatus in Global Warming and North American Drought. *Journal of Climate*, **2015**, 28, 3834-3845	4.4	77
169	Retrospective Forecasts of the Hurricane Season Using a Global Atmospheric Model Assuming Persistence of SST Anomalies. *Monthly Weather Review*, **2010**, 138, 3858-3868	2.4	77
168	Recent increases in tropical cyclone intensification rates. *Nature Communications*, **2019**, 10, 635	17.4	76
167	Impacts of Atmospheric Temperature Trends on Tropical Cyclone Activity. *Journal of Climate*, **2013**, 26, 3877-3891	4.4	75
166	January 1999 Indian Ocean Cooling Event. *Geophysical Research Letters*, **2001**, 28, 3717-3720	4.9	75
165	The 30–60-Week MJO Prediction Skill in a GFDL Coupled Model. *Journal of Climate*, **2015**, 28, 5351-5364	4.4	74
164	Weakening of the North American monsoon with global warming. *Nature Climate Change*, **2017**, 7, 806-812	21.4	73
163	Predicting a Decadal Shift in North Atlantic Climate Variability Using the GFDL Forecast System. *Journal of Climate*, **2014**, 27, 6472-6496	4.4	73
162	Tropical cyclone sensitivities to CO2 doubling: roles of atmospheric resolution, synoptic variability and background climate changes. *Climate Dynamics*, **2019**, 53, 5999-6033	4.2	72
161	Importance of initial conditions in seasonal predictions of Arctic sea ice extent. *Geophysical Research Letters*, **2014**, 41, 5208-5215	4.9	72
160	Temporally Compound Heat Wave Events and Global Warming: An Emerging Hazard. *Earth's Future*, **2019**, 7, 411-427	7.9	72

159	Skillful regional prediction of Arctic sea ice on seasonal timescales. *Geophysical Research Letters*, **2017**, 44, 4953-4964	4.9	68
158	Characterization of rainfall distribution and flooding associated with U.S. landfalling tropical cyclones: Analyses of Hurricanes Frances, Ivan, and Jeanne (2004). *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		68
157	Intense Precipitation Events Associated with Landfalling Tropical Cyclones in Response to a Warmer Climate and Increased CO2. *Journal of Climate*, **2014**, 27, 4642-4654	4.4	67
156	Dominant Role of Subtropical Pacific Warming in Extreme Eastern Pacific Hurricane Seasons: 2015 and the Future. *Journal of Climate*, **2017**, 30, 243-264	4.4	65
155	The response of the Walker circulation to Last Glacial Maximum forcing: Implications for detection in proxies. *Paleoceanography*, **2011**, 26, n/a-n/a		65
154	Seasonal Predictability of Extratropical Storm Tracks in GFDL's High-Resolution Climate Prediction Model. *Journal of Climate*, **2015**, 28, 3592-3611	4.4	62
153	Detectability of Changes in the Walker Circulation in Response to Global Warming*. *Journal of Climate*, **2013**, 26, 4038-4048	4.4	61
152	Reconciling Differing Views of Tropical Pacific Climate Change. *Eos*, **2010**, 91, 141-142	1.5	60
151	Contrasting the termination of moderate and extreme El Niño events in coupled general circulation models. *Climate Dynamics*, **2010**, 35, 299-313	4.2	60
150	The Termination of the 1997–98 El Niño. Part II: Mechanisms of Atmospheric Change. *Journal of Climate*, **2006**, 19, 2647-2664	4.4	59
149	The Termination of the 1997–98 El Niño. Part I: Mechanisms of Oceanic Change*. *Journal of Climate*, **2006**, 19, 2633-2646	4.4	57
148	The Resolution Dependence of Contiguous U.S. Precipitation Extremes in Response to CO2 Forcing. *Journal of Climate*, **2016**, 29, 7991-8012	4.4	57
147	Improved Simulation of Tropical Cyclone Responses to ENSO in the Western North Pacific in the High-Resolution GFDL HiFLOR Coupled Climate Model*. *Journal of Climate*, **2016**, 29, 1391-1415	4.4	56
146	Indian Ocean Variability in the GFDL Coupled Climate Model. *Journal of Climate*, **2007**, 20, 2895-2916	4.4	56
145	Seasonal sea surface temperature anomaly prediction for coastal ecosystems. *Progress in Oceanography*, **2015**, 137, 219-236	3.8	55
144	Uncertainties in the timing of unprecedented climates. *Nature*, **2014**, 511, E3-5	50.4	54
143	Seasonal Forecasts of Major Hurricanes and Landfalling Tropical Cyclones using a High-Resolution GFDL Coupled Climate Model. *Journal of Climate*, **2016**, 29, 7977-7989	4.4	53
142	Multiyear Predictions of North Atlantic Hurricane Frequency: Promise and Limitations. *Journal of Climate*, **2013**, 26, 5337-5357	4.4	52

141	Beyond Weather Time-Scale Prediction for Hurricane Sandy and Super Typhoon Haiyan in a Global Climate Model. *Monthly Weather Review*, **2015**, 143, 524-535	2.4	50
140	Reassessing the role of stochastic forcing in the 1997–1998 El Niño. *Geophysical Research Letters*, **2006**, 33, n/a-n/a	4.9	50
139	Biases in the Atlantic ITCZ in Seasonal–Interannual Variations for a Coarse- and a High-Resolution Coupled Climate Model. *Journal of Climate*, **2012**, 25, 5494-5511	4.4	49
138	Predictability of the Indian Ocean sea surface temperature anomalies in the GFDL coupled model. *Geophysical Research Letters*, **2008**, 35,	4.9	47
137	The Role of the Indonesian Throughflow in the Indo–Pacific Climate Variability in the GFDL Coupled Climate Model. *Journal of Climate*, **2007**, 20, 2434-2451	4.4	47
136	The Seasonality of the Great Plains Low-Level Jet and ENSO Relationship. *Journal of Climate*, **2015**, 28, 4525-4544	4.4	46
135	Statistical–Dynamical Seasonal Forecast of North Atlantic and U.S. Landfalling Tropical Cyclones Using the High-Resolution GFDL FLOR Coupled Model. *Monthly Weather Review*, **2016**, 144, 2101-2123	2.4	46
134	Dominant Role of Atlantic Multidecadal Oscillation in the Recent Decadal Changes in Western North Pacific Tropical Cyclone Activity. *Geophysical Research Letters*, **2018**, 45, 354-362	4.9	45
133	North Atlantic Tropical Storm Frequency Response to Anthropogenic Forcing: Projections and Sources of Uncertainty. *Journal of Climate*, **2011**, 24, 3224-3238	4.4	45
132	Improved management of small pelagic fisheries through seasonal climate prediction **2017**, 27, 378-388		44
131	The Impact of Anthropogenic Climate Change on North Atlantic Tropical Cyclone Tracks*. *Journal of Climate*, **2013**, 26, 4088-4095	4.4	43
130	Sea Surface Temperature of the Bay of Bengal Derived from the TRMM Microwave Imager*,+. *Journal of Atmospheric and Oceanic Technology*, **2004**, 21, 1283-1290	2	43
129	U.S. Landfalling and North Atlantic Hurricanes: Statistical Modeling of Their Frequencies and Ratios. *Monthly Weather Review*, **2012**, 140, 44-65	2.4	42
128	The impacts of changing transport and precipitation on pollutant distributions in a future climate. *Journal of Geophysical Research*, **2011**, 116,		42
127	Is the recorded increase in short-duration North Atlantic tropical storms spurious?. *Journal of Geophysical Research*, **2011**, 116,		40
126	Epidemic dynamics of respiratory syncytial virus in current and future climates. *Nature Communications*, **2019**, 10, 5512	17.4	40
125	Subseasonal Atmospheric Variability and El Niño Waveguide Warming: Observed Effects of the Madden–Julian Oscillation and Westerly Wind Events*. *Journal of Climate*, **2014**, 27, 3619-3642	4.4	39
124	North Atlantic Power Dissipation Index (PDI) and Accumulated Cyclone Energy (ACE): Statistical Modeling and Sensitivity to Sea Surface Temperature Changes. *Journal of Climate*, **2012**, 25, 625-637	4.4	39

123	The Present-Day Simulation and Twenty-First-Century Projection of the Climatology of Extratropical Transition in the North Atlantic. *Journal of Climate*, **2017**, 30, 2739-2756	4.4	37
122	Statistical–Dynamical Seasonal Forecast of Western North Pacific and East Asia Landfalling Tropical Cyclones using the GFDL FLOR Coupled Climate Model. *Journal of Climate*, **2017**, 30, 2209-2232	4.4	36
121	Influence of the Tian Shan on Arid Extratropical Asia. *Journal of Climate*, **2016**, 29, 5741-5762	4.4	36
120	Causes of large projected increases in hurricane precipitation rates with global warming. *Npj Climate and Atmospheric Science*, **2019**, 2,	8	35
119	Modulation of western North Pacific tropical cyclone activity by the Atlantic Meridional Mode. *Climate Dynamics*, **2017**, 48, 631-647	4.2	35
118	Investigating the Influence of Anthropogenic Forcing and Natural Variability on the 2014 Hawaiian Hurricane Season. *Bulletin of the American Meteorological Society*, **2015**, 96, S115-S119	6.1	35
117	El Niño and La Niña equatorial Pacific thermocline depth and sea surface temperature anomalies, 1986–98. *Geophysical Research Letters*, **2001**, 28, 1051-1054	4.9	35
116	The Roles of Radiative Forcing, Sea Surface Temperatures, and Atmospheric and Land Initial Conditions in U.S. Summer Warming Episodes. *Journal of Climate*, **2016**, 29, 4121-4135	4.4	34
115	Impact of Strong ENSO on Regional Tropical Cyclone Activity in a High-Resolution Climate Model in the North Pacific and North Atlantic Oceans. *Journal of Climate*, **2016**, 29, 2375-2394	4.4	34
114	Potential Increase in Hazard From Mediterranean Hurricane Activity With Global Warming. *Geophysical Research Letters*, **2019**, 46, 1754-1764	4.9	33
113	The added value of IMERG in characterizing rainfall in tropical cyclones. *Atmospheric Research*, **2018**, 209, 95-102	5.4	33
112	How Well Do Global Climate Models Simulate the Variability of Atlantic Tropical Cyclones Associated with ENSO?. *Journal of Climate*, **2014**, 27, 5673-5692	4.4	33
111	Long term changes in flooding and heavy rainfall associated with North Atlantic tropical cyclones: Roles of the North Atlantic Oscillation and El Niño-Southern Oscillation. *Journal of Hydrology*, **2018**, 559, 698-710	6	32
110	Nonlinear Zonal Wind Response to ENSO in the CMIP5 Models: Roles of the Zonal and Meridional Shift of the ITCZ/SPCZ and the Simulated Climatological Precipitation*. *Journal of Climate*, **2015**, 28, 8556-8573	4.4	30
109	How ocean color can steer Pacific tropical cyclones. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	30
108	Seasonal Prediction Skill of Northern Extratropical Surface Temperature Driven by the Stratosphere. *Journal of Climate*, **2017**, 30, 4463-4475	4.4	29
107	Transient Climate Sensitivity Depends on Base Climate Ocean Circulation. *Journal of Climate*, **2017**, 30, 1493-1504	4.4	29
106	On the termination of the 2002–03 El Niño event. *Geophysical Research Letters*, **2003**, 30,	4.9	28

105	Regional Arctic sea ice prediction: potential versus operational seasonal forecast skill. *Climate Dynamics*, **2019**, 52, 2721-2743	4.2	27
104	Atmosphere. Next season's hurricanes. *Science*, **2014**, 343, 618-9	33.3	27
103	Could the Recent Zika Epidemic Have Been Predicted?. *Frontiers in Microbiology*, **2017**, 8, 1291	5.7	27
102	Interannual Indian Rainfall Variability and Indian Ocean Sea Surface Temperature Anomalies. *Geophysical Monograph Series*, **2013**, 247-259	1.1	26
101	Verification of the skill of numerical weather prediction models in forecasting rainfall from U.S. landfalling tropical cyclones. *Journal of Hydrology*, **2018**, 556, 1026-1037	6	25
100	How Skillful are the Multiannual Forecasts of Atlantic Hurricane Activity?. *Bulletin of the American Meteorological Society*, **2018**, 99, 403-413	6.1	25
99	Submonthly Indian Ocean Cooling Events and Their Interaction with Large-Scale Conditions. *Journal of Climate*, **2010**, 23, 700-716	4.4	25
98	Projection of Landfalling Tropical Cyclone Rainfall in the Eastern United States under Anthropogenic Warming. *Journal of Climate*, **2018**, 31, 7269-7286	4.4	25
97	Tropical rainfall predictions from multiple seasonal forecast systems. *International Journal of Climatology*, **2019**, 39, 974-988	3.5	24
96	The Impact of Horizontal Resolution on North American Monsoon Gulf of California Moisture Surges in a Suite of Coupled Global Climate Models. *Journal of Climate*, **2016**, 29, 7911-7936	4.4	24
95	Climate science: Origins of Atlantic decadal swings. *Nature*, **2017**, 548, 284-285	50.4	24
94	The Response of the Tropical Atlantic and West African Climate to Saharan Dust in a Fully Coupled GCM. *Journal of Climate*, **2015**, 28, 7071-7092	4.4	24
93	Multiseason Lead Forecast of the North Atlantic Power Dissipation Index (PDI) and Accumulated Cyclone Energy (ACE). *Journal of Climate*, **2013**, 26, 3631-3643	4.4	24
92	An Observing System Simulation Experiment for the Indian Ocean. *Journal of Climate*, **2007**, 20, 3300-3319	4.4	24
91	Process-Oriented Diagnosis of Tropical Cyclones in High-Resolution GCMs. *Journal of Climate*, **2018**, 31, 1685-1702	4.4	23
90	Correction to Expansion of the Hadley cell under global warming *Geophysical Research Letters*, **2007**, 34,	4.9	23
89	Precipitation Sensitivity to Local Variations in Tropical Sea Surface Temperature. *Journal of Climate*, **2018**, 31, 9225-9238	4.4	23
88	Influences of Natural Variability and Anthropogenic Forcing on the Extreme 2015 Accumulated Cyclone Energy in the Western North Pacific. *Bulletin of the American Meteorological Society*, **2016**, 97, S131-S135	6.1	22

87	A Weather-Type-Based Cross-Time-Scale Diagnostic Framework for Coupled Circulation Models. *Journal of Climate*, **2017**, 30, 8951-8972	4.4	21
86	Characteristics of Model Tropical Cyclone Climatology and the Large-Scale Environment. *Journal of Climate*, **2020**, 33, 4463-4487	4.4	21
85	Potential for western US seasonal snowpack prediction. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 1180-1185	11.5	21
84	An Assessment of Multimodel Simulations for the Variability of Western North Pacific Tropical Cyclones and Its Association with ENSO. *Journal of Climate*, **2016**, 29, 6401-6423	4.4	21
83	Moist Static Energy Budget Analysis of Tropical Cyclone Intensification in High-Resolution Climate Models. *Journal of Climate*, **2019**, 32, 6071-6095	4.4	20
82	The Climatological Effect of Saharan Dust on Global Tropical Cyclones in a Fully Coupled GCM. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 5538-5559	4.4	20
81	Large-scale control on the frequency of tropical cyclones and seeds: a consistent relationship across a hierarchy of global atmospheric models. *Climate Dynamics*, **2020**, 55, 3177-3196	4.2	19
80	Assessing the influence of climate on wintertime SARS-CoV-2 outbreaks. *Nature Communications*, **2021**, 12, 846	17.4	19
79	Rainfall from tropical cyclones: high-resolution simulations and seasonal forecasts. *Climate Dynamics*, **2019**, 52, 5269-5289	4.2	18
78	Detection, Attribution, and Projection of Regional Rainfall Changes on (Multi-) Decadal Time Scales: A Focus on Southeastern South America. *Journal of Climate*, **2016**, 29, 8515-8534	4.4	18
77	Impacts of the Pacific Meridional Mode on June–August precipitation in the Amazon River Basin. *Quarterly Journal of the Royal Meteorological Society*, **2017**, 143, 1936-1945	6.4	17
76	Projected Twenty-First-Century Changes in the Length of the Tropical Cyclone Season. *Journal of Climate*, **2015**, 28, 6181-6192	4.4	17
75	Lifetime Evolution of Outer Tropical Cyclone Size and Structure as Diagnosed from Reanalysis and Climate Model Data. *Journal of Climate*, **2018**, 31, 7985-8004	4.4	17
74	Statistical-dynamical seasonal forecast of western North Pacific and East Asia landfalling tropical cyclones using the high-resolution GFDL FLOR coupled model. *Journal of Advances in Modeling Earth Systems*, **2016**, 8, 538-565	7.1	17
73	Evaluation of tropical Pacific observing systems using NCEP and GFDL ocean data assimilation systems. *Climate Dynamics*, **2017**, 49, 843-868	4.2	16
72	Stronger influences of increased CO2 on subdaily precipitation extremes than at the daily scale. *Geophysical Research Letters*, **2017**, 44, 7464-7471	4.9	16
71	Multi-Annual Climate Predictions for Fisheries: An Assessment of Skill of Sea Surface Temperature Forecasts for Large Marine Ecosystems. *Frontiers in Marine Science*, **2017**, 4,	4.5	16
70	Shifting patterns of mild weather in response to projected radiative forcing. *Climatic Change*, **2017**, 140, 649-658	4.5	15

69	The direct and ocean-mediated influence of Asian orography on tropical precipitation and cyclones. *Climate Dynamics*, **2019**, 53, 805-824	4.2	15
68	Causes and Probability of Occurrence of Extreme Precipitation Events like Chennai 2015. *Journal of Climate*, **2018**, 31, 3831-3848	4.4	15
67	Climate Impacts From Large Volcanic Eruptions in a High-Resolution Climate Model: The Importance of Forcing Structure. *Geophysical Research Letters*, **2019**, 46, 7690-7699	4.9	15
66	Extreme North America Winter Storm Season of 2013/14: Roles of Radiative Forcing and the Global Warming Hiatus. *Bulletin of the American Meteorological Society*, **2015**, 96, S25-S28	6.1	15
65	Response of the Equatorial Pacific Seasonal Cycle to Orbital Forcing. *Journal of Climate*, **2015**, 28, 9258-9276	4.4	15
64	100-Year Lower Mississippi Floods in a Global Climate Model: Characteristics and Future Changes. *Journal of Hydrometeorology*, **2018**, 19, 1547-1563	3.7	15
63	Summer Enhancement of Arctic Sea Ice Volume Anomalies in the September-Ice Zone. *Journal of Climate*, **2017**, 30, 2341-2362	4.4	14
62	Cold waves are getting milder in the northern midlatitudes. *Environmental Research Letters*, **2019**, 14, 114004	6.2	14
61	Improved ENSO Forecasting Using Bayesian Updating and the North American Multimodel Ensemble (NMME). *Journal of Climate*, **2017**, 30, 9007-9025	4.4	14
60	A dynamical statistical framework for seasonal streamflow forecasting in an agricultural watershed. *Climate Dynamics*, **2019**, 53, 7429-7445	4.2	14
59	Multi-model ensemble forecasting of North Atlantic tropical cyclone activity. *Climate Dynamics*, **2019**, 53, 7461-7477	4.2	14
58	Improved Simulations of Tropical Pacific Annual-Mean Climate in the GFDL FLOR and HiFLOR Coupled GCMs. *Journal of Advances in Modeling Earth Systems*, **2018**, 10, 3176-3220	7.1	14
57	Basin patterns of global sea level changes for 2004–2007. *Journal of Marine Systems*, **2010**, 80, 115-124	2.7	13
56	Azimuthally Averaged Wind and Thermodynamic Structures of Tropical Cyclones in Global Climate Models and Their Sensitivity to Horizontal Resolution. *Journal of Climate*, **2020**, 33, 1575-1595	4.4	13
55	On the seasonal prediction of the western United States El Niño precipitation pattern during the 2015/16 winter. *Climate Dynamics*, **2018**, 51, 3765-3783	4.2	12
54	An asymmetric rainfall response to ENSO in East Asia. *Climate Dynamics*, **2019**, 52, 2303-2318	4.2	12
53	The typhoon-induced drying of the Maritime Continent. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 3983-3988	11.5	11
52	High resolution decadal precipitation predictions over the continental United States for impacts assessment. *Journal of Hydrology*, **2017**, 553, 559-573	6	11

51	The Impact of Sea Surface Temperature Biases on North American Precipitation in a High-Resolution Climate Model. *Journal of Climate*, **2020**, 33, 2427-2447	4.4	10
50	Compensation Between Cloud Feedback and Aerosol-Cloud Interaction in CMIP6 Models. *Geophysical Research Letters*, **2021**, 48, e2020GL091024	4.9	10
49	Diagnostics comparing sea surface temperature feedbacks from operational hurricane forecasts to observations. *Journal of Advances in Modeling Earth Systems*, **2011**, 3,	7.1	9
48	Changes in Atlantic major hurricane frequency since the late-19th century. *Nature Communications*, **2021**, 12, 4054	17.4	9
47	MEETING SUMMARIES. *Bulletin of the American Meteorological Society*, **2015**, 96, 1969-1972	6.1	8
46	Response of Extreme Rainfall for Landfalling Tropical Cyclones Undergoing Extratropical Transition to Projected Climate Change: Hurricane Irene (2011). *Earth's Future*, **2020**, 8, e2019EF001360	7.9	8
45	Effects of surface forcing on the seasonal cycle of the eastern equatorial Pacific. *Journal of Marine Research*, **2009**, 67, 701-729	1.5	8
44	Tropical cyclone frequency. *Earth's Future*,	7.9	8
43	Estimating Decadal Predictability for the Southern Ocean Using the GFDL CM2.1 Model. *Journal of Climate*, **2017**, 30, 5187-5203	4.4	7
42	Comparison of global objective analyzed T-S fields of the upper ocean for 2008–2011. *Journal of Marine Systems*, **2014**, 137, 13-20	2.7	7
41	Central equatorial Pacific zonal currents. II: The seasonal cycle and the boreal spring surface eastward surge. *Journal of Marine Research*, **2001**, 59, 921-948	1.5	7
40	WHY CLIMATE MODELERS SHOULD WORRY ABOUT ATMOSPHERIC AND OCEANIC WEATHER. *World Scientific Series on Asia-Pacific Weather and Climate*, **2011**, 511-523		7
39	Outsize Influence of Central American Orography on Global Climate. *AGU Advances*, **2021**, 2, e2020AV000343	3.4	7
38	Impact of Ocean Eddy Resolution on the Sensitivity of Precipitation to CO2 Increase. *Geophysical Research Letters*, **2018**, 45, 7194-7203	4.9	7
37	Decadal temperature predictions over the continental United States: Analysis and Enhancement. *Climate Dynamics*, **2017**, 49, 3587-3604	4.2	6
36	Application of the Cyclone Phase Space to Extratropical Transition in a Global Climate Model. *Journal of Advances in Modeling Earth Systems*, **2020**, 12, e2019MS001878	7.1	6
35	Impact of an observational time window on coupled data assimilation: simulation with a simple climate model. *Nonlinear Processes in Geophysics*, **2017**, 24, 681-694	2.9	6
34	Estimating Convection Parameters in the GFDL CM2.1 Model Using Ensemble Data Assimilation. *Journal of Advances in Modeling Earth Systems*, **2018**, 10, 989-1010	7.1	6

33	Impacts of the Pacific Meridional Mode on Landfalling North Atlantic tropical cyclones. *Climate Dynamics*, **2018**, 50, 991-1006	4.2	6
32	Comment on "Multiyear prediction of monthly mean Atlantic Meridional Overturning Circulation at 26.5°N". *Science*, **2012**, 338, 604; author reply 604	33.3	6
31	Tropical Cyclone Rainfall Changes in a Warmer Climate **2017**, 243-255		6
30	Attribution of the impacts of the 2008 flooding in Cedar Rapids (Iowa) to anthropogenic forcing. *Environmental Research Letters*, **2020**, 15, 114057	6.2	6
29	Impact of volcanic aerosol hemispheric symmetry on Sahel rainfall. *Climate Dynamics*, **2020**, 55, 1733-1758	4.2	6
28	Response to CO2 Doubling of the Atlantic Hurricane Main Development Region in a High-Resolution Climate Model. *Journal of Climate*, **2013**, 26, 4322-4334	4.4	5
27	Impacts of the Pacific meridional mode on rainfall over the maritime continent and australia: potential for seasonal predictions. *Climate Dynamics*, **2019**, 53, 7185-7199	4.2	5
26	The Risks of Contracting the Acquisition and Processing of the Nation's Weather and Climate Data to the Private Sector. *Bulletin of the American Meteorological Society*, **2018**, 99, 869-870	6.1	5
25	Assessing GFDL high-resolution climate model water and energy budgets from AMIP simulations over Africa. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 8444-8459	4.4	4
24	Assessment of summer rainfall forecast skill in the Intra-Americas in GFDL high and low-resolution models. *Climate Dynamics*, **2019**, 52, 1965-1982	4.2	4
23	North Atlantic Hurricane Activity: Past, Present and Future. *World Scientific Series on Asia-Pacific Weather and Climate*, **2015**, 285-301		4
22	Eastward surface jets in the central equatorial Pacific, November 1991–March 1992. *Journal of Marine Research*, **2000**, 58, 735-754	1.5	4
21	Hurricane annual cycle controlled by both seeds and genesis probability. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
20	Climatological, virological and sociological drivers of current and projected dengue fever outbreak dynamics in Sri Lanka. *Journal of the Royal Society Interface*, **2020**, 17, 20200075	4.1	4
19	The Role of Radiative Interactions in Tropical Cyclone Development under Realistic Boundary Conditions. *Journal of Climate*, **2021**, 34, 2079-2091	4.4	4
18	Comment on "Roles of interbasin frequency changes in the poleward shifts of the maximum intensity location of tropical cyclones" *Environmental Research Letters*, **2016**, 11, 068001	6.2	4
17	Estuarine Forecasts at Daily Weather to Subseasonal Time Scales. *Earth and Space Science*, **2020**, 7, e2020EA001179	3.1	3
16	Large-scale environmental controls on the seasonal statistics of rapidly intensifying North Atlantic tropical cyclones. *Climate Dynamics*, **2020**, 54, 3907-3925	4.2	3

15	Simulated Connections between ENSO and Tropical Cyclones near Guam in a High-Resolution GFDL Coupled Climate Model: Implications for Seasonal Forecasting. *Journal of Climate*, **2016**, 29, 8231-8248	4.4	3
14	An OSSE Study for Deep Argo Array using the GFDL Ensemble Coupled Data Assimilation System. *Ocean Science Journal*, **2018**, 53, 179-189	1.1	3
13	Improved simulation of 19th- and 20th-century North Atlantic hurricane frequency after correcting historical sea surface temperatures. *Science Advances*, **2021**, 7,	14.3	3
12	Enhanced hydrological cycle increases ocean heat uptake and moderates transient climate change. *Nature Climate Change*, **2021**, 11, 848-853	21.4	3
11	Hurricanes and Climate: The U.S. CLIVAR Working Group on Hurricanes. *Bulletin of the American Meteorological Society*, **2015**, 96, 1440	6.1	2
10	Reply to Comments on "Multiyear Predictions of North Atlantic Hurricane Frequency: Promise and Limitations" *Journal of Climate*, **2014**, 27, 490-492	4.4	2
9	Towards Dynamical Seasonal Forecast of Extratropical Transition in the North Atlantic. *Geophysical Research Letters*, **2018**, 45, 12,602	4.9	2
8	Sea Surface Salinity Response to Tropical Cyclones Based on Satellite Observations. *Remote Sensing* , **2021**, 13, 420	5	2
7	Model Spread in the Tropical Cyclone Frequency and Seed Propensity Index Across Global Warming and ENSO-Like Perturbations. *Geophysical Research Letters*, **2022**, 49,	4.9	2
6	Tropical cyclone flooding in the Carolinas. *Journal of Hydrometeorology*, **2021**,	3.7	1
5	Assessing the influence of climate on future wintertime SARS-CoV-2 outbreaks		1
4	The East Asian Subtropical Jet Stream and Atlantic Tropical Cyclones. *Geophysical Research Letters*, **2020**, 47, e2020GL088851	4.9	1
3	A Comparison of Tropical Cyclone Projections in a High-resolution Global Climate Model and from Downscaling by Statistical and Statistical-deterministic Methods. *Journal of Climate*, **2021**, 1-48	4.4	1
2	Influence of Vertical Wind Shear on the Ocean Response to Tropical Cyclones Based on Satellite Observations. *Geophysical Research Letters*, **2021**, 48, e2021GL095451	4.9	
1	Investigating the Causes and Impacts of Convective Aggregation in a High Resolution Atmospheric GCM. *Journal of Advances in Modeling Earth Systems*,e2021MS002675	7.1	