

Hiroyuki Murakami

List of Publications by Year in descending order

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114
papers

6,509
citations

50244

46
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69214

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docs citations

115
times ranked

4431
citing authors

#	ARTICLE	IF	CITATIONS
1	Atlantic hurricanes and associated insurance loss potentials in future climate scenarios: limitations of high-resolution AGCM simulations. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 64, 15672.	0.8	11
2	Mechanisms of Regional Arctic Sea Ice Predictability in Two Dynamical Seasonal Forecast Systems. <i>Journal of Climate</i> , 2022, 35, 4207-4231.	1.2	6
3	Impacts of Midlatitude Western North Pacific Sea Surface Temperature Anomaly on the Subseasonal to Seasonal Tropical Cyclone Activity: Case Study of the 2018 Boreal Summer. <i>Scientific Online Letters on the Atmosphere</i> , 2022, 18, 88-95.	0.6	3
4	Subseasonal to Seasonal Tropical Cyclone Prediction. , 2022, , 201-235.		0
5	Extreme Typhoon Rainfall Under Changing Climate. , 2022, , 236-257.		0
6	Future Tropical Cyclone Projections and Uncertainty Estimates. , 2022, , 258-292.		0
7	Climate Variability. Part II: Interannual to Interdecadal Variability. , 2022, , 42-98.		0
8	Climate Variability and Tropical Cyclones. , 2022, , 99-200.		0
9	Roles of Meridional Overturning in Subpolar Southern Ocean SST Trends: Insights from Ensemble Simulations. <i>Journal of Climate</i> , 2022, 35, 1577-1596.	1.2	3
10	Skillful Seasonal Prediction of North American Summertime Heat Extremes. <i>Journal of Climate</i> , 2022, 35, 4331-4345.	1.2	6
11	Increasing Frequency of Anomalous Precipitation Events in Japan Detected by a Deep Learning Autoencoder. <i>Earth's Future</i> , 2022, 10, .	2.4	2
12	Patterns and frequency of projected future tropical cyclone genesis are governed by dynamic effects. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	19
13	When Will Humanity Notice Its Influence on Atmospheric Rivers?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	5
14	Substantial global influence of anthropogenic aerosols on tropical cyclones over the past 40 years. <i>Science Advances</i> , 2022, 8, eabn9493.	4.7	24
15	Declining tropical cyclone frequency under global warming. <i>Nature Climate Change</i> , 2022, 12, 655-661.	8.1	64
16	Tropical Cyclone Characteristics in the MERRA-2 Reanalysis and AMIP Simulations. <i>Earth and Space Science</i> , 2021, 8, e2020EA001415.	1.1	5
17	Dynamical Seasonal Predictions of Tropical Cyclone Activity: Roles of Sea Surface Temperature Errors and Atmosphere-land Initialization. <i>Journal of Climate</i> , 2021, 34, 1743-1766.	1.2	3
18	Seasonal Prediction and Predictability of Regional Antarctic Sea Ice. <i>Journal of Climate</i> , 2021, 34, 6207-6233.	1.2	20

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19	East Antarctic cooling induced by decadal changes in Madden-Julian oscillation during austral summer. <i>Science Advances</i> , 2021, 7, .	4.7	9
20	Are Multiseasonal Forecasts of Atmospheric Rivers Possible?. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094000.	1.5	8
21	Seasonal predictability of baroclinic wave activity. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	2.6	8
22	Changing Impacts of Tropical Cyclones on East and Southeast Asian Inland Regions in the Past and a Globally Warmed Future Climate. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	16
23	Azimuthally Averaged Wind and Thermodynamic Structures of Tropical Cyclones in Global Climate Models and Their Sensitivity to Horizontal Resolution. <i>Journal of Climate</i> , 2020, 33, 1575-1595.	1.2	20
24	A Hybrid Dynamical–Statistical Model for Advancing Subseasonal Tropical Cyclone Prediction Over the Western North Pacific. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090095.	1.5	8
25	Detected climatic change in global distribution of tropical cyclones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10706-10714.	3.3	123
26	Tropical cyclone motion in a changing climate. <i>Science Advances</i> , 2020, 6, eaaz7610.	4.7	68
27	Characteristics of Model Tropical Cyclone Climatology and the Large-Scale Environment. <i>Journal of Climate</i> , 2020, 33, 4463-4487.	1.2	42
28	Effects of Anthropogenic Forcing and Natural Variability on the 2018 Heatwave in Northeast Asia. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, S77-S82.	1.7	12
29	Application of the Cyclone Phase Space to Extratropical Transition in a Global Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001878.	1.3	13
30	SPEAR: The Next Generation GFDL Modeling System for Seasonal to Multidecadal Prediction and Projection. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001895.	1.3	94
31	Dynamic genesis potential index for diagnosing present-day and future global tropical cyclone genesis. <i>Environmental Research Letters</i> , 2020, 15, 114008.	2.2	55
32	Role of Abnormally Enhanced MJO over the Western Pacific in the Formation and Subseasonal Predictability of the Record-Breaking Northeast Asian Heatwave in the Summer of 2018. <i>Journal of Climate</i> , 2020, 33, 3333-3349.	1.2	38
33	An asymmetric rainfall response to ENSO in East Asia. <i>Climate Dynamics</i> , 2019, 52, 2303-2318.	1.7	22
34	Tropical cyclone sensitivities to CO ₂ doubling: roles of atmospheric resolution, synoptic variability and background climate changes. <i>Climate Dynamics</i> , 2019, 53, 5999-6033.	1.7	114
35	Moist Static Energy Budget Analysis of Tropical Cyclone Intensification in High-Resolution Climate Models. <i>Journal of Climate</i> , 2019, 32, 6071-6095.	1.2	30
36	On the Mechanisms of the Active 2018 Tropical Cyclone Season in the North Pacific. <i>Geophysical Research Letters</i> , 2019, 46, 12293-12302.	1.5	15

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37	Potential Increase in Hazard From Mediterranean Hurricane Activity With Global Warming. <i>Geophysical Research Letters</i> , 2019, 46, 1754-1764.	1.5	62
38	Impact of Anthropogenic Climate Change on United States Major Hurricane Landfall Frequency. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 135.	1.2	9
39	Rainfall from tropical cyclones: high-resolution simulations and seasonal forecasts. <i>Climate Dynamics</i> , 2019, 52, 5269-5289.	1.7	24
40	Dynamical Seasonal Prediction of Tropical Cyclone Activity: Robust Assessment of Prediction Skill and Predictability. <i>Geophysical Research Letters</i> , 2019, 46, 5506-5515.	1.5	13
41	Simulated ENSO's impact on tropical cyclone genesis over the western North Pacific in CMIP5 models and its changes under global warming. <i>International Journal of Climatology</i> , 2019, 39, 3668-3678.	1.5	21
42	Recent increases in tropical cyclone intensification rates. <i>Nature Communications</i> , 2019, 10, 635.	5.8	167
43	Tropical cyclones and climate change. <i>Tropical Cyclone Research and Review</i> , 2019, 8, 240-250.	1.0	57
44	Seasonal Tropical Cyclone Forecasting. <i>Tropical Cyclone Research and Review</i> , 2019, 8, 134-149.	1.0	40
45	Process-Oriented Diagnosis of Tropical Cyclones in High-Resolution GCMs. <i>Journal of Climate</i> , 2018, 31, 1685-1702.	1.2	28
46	Dominant Role of Atlantic Multidecadal Oscillation in the Recent Decadal Changes in Western North Pacific Tropical Cyclone Activity. <i>Geophysical Research Letters</i> , 2018, 45, 354-362.	1.5	75
47	Impacts of the Pacific Meridional Mode on Landfalling North Atlantic tropical cyclones. <i>Climate Dynamics</i> , 2018, 50, 991-1006.	1.7	8
48	Towards Dynamical Seasonal Forecast of Extratropical Transition in the North Atlantic. <i>Geophysical Research Letters</i> , 2018, 45, 12,602.	1.5	3
49	Dominant effect of relative tropical Atlantic warming on major hurricane occurrence. <i>Science</i> , 2018, 362, 794-799.	6.0	70
50	Projection of Landfalling Tropical Cyclone Rainfall in the Eastern United States under Anthropogenic Warming. <i>Journal of Climate</i> , 2018, 31, 7269-7286.	1.2	37
51	Projected Response of Tropical Cyclone Intensity and Intensification in a Global Climate Model. <i>Journal of Climate</i> , 2018, 31, 8281-8303.	1.2	163
52	The Present-Day Simulation and Twenty-First-Century Projection of the Climatology of Extratropical Transition in the North Atlantic. <i>Journal of Climate</i> , 2017, 30, 2739-2756.	1.2	45
53	Dominant Role of Subtropical Pacific Warming in Extreme Eastern Pacific Hurricane Seasons: 2015 and the Future. <i>Journal of Climate</i> , 2017, 30, 243-264.	1.2	79
54	Statistical Dynamical Seasonal Forecast of Western North Pacific and East Asia Landfalling Tropical Cyclones using the GFDL FLOR Coupled Climate Model. <i>Journal of Climate</i> , 2017, 30, 2209-2232.	1.2	44

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55	Weakening of the North American monsoon with global warming. <i>Nature Climate Change</i> , 2017, 7, 806-812.	8.1	105
56	Western North Pacific Tropical Cyclone Model Tracks in Present and Future Climates. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9721-9744.	1.2	54
57	Future Changes in Tropical Cyclone Activity in High-Resolution Large-Ensemble Simulations. <i>Geophysical Research Letters</i> , 2017, 44, 9910-9917.	1.5	159
58	Increasing frequency of extremely severe cyclonic storms over the Arabian Sea. <i>Nature Climate Change</i> , 2017, 7, 885-889.	8.1	132
59	Projection of future changes in the frequency of intense tropical cyclones. <i>Climate Dynamics</i> , 2017, 49, 619-632.	1.7	51
60	Modulation of western North Pacific tropical cyclone activity by the Atlantic Meridional Mode. <i>Climate Dynamics</i> , 2017, 48, 631-647.	1.7	48
61	Statistical-Dynamical Seasonal Forecast of North Atlantic and U.S. Landfalling Tropical Cyclones Using the High-Resolution GFDL FLOR Coupled Model. <i>Monthly Weather Review</i> , 2016, 144, 2101-2123.	0.5	55
62	Statistical-dynamical seasonal forecast of western North Pacific and East Asia landfalling tropical cyclones using the high-resolution GFDL FLOR coupled model. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 538-565.	1.3	20
63	The influence of model resolution on the simulated sensitivity of North Atlantic tropical cyclone maximum intensity to sea surface temperature. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 1037-1054.	1.3	13
64	Seasonal Forecasts of Major Hurricanes and Landfalling Tropical Cyclones using a High-Resolution GFDL Coupled Climate Model. <i>Journal of Climate</i> , 2016, 29, 7977-7989.	1.2	64
65	The Resolution Dependence of Contiguous U.S. Precipitation Extremes in Response to CO ₂ Forcing. <i>Journal of Climate</i> , 2016, 29, 7991-8012.	1.2	74
66	Simulated Connections between ENSO and Tropical Cyclones near Guam in a High-Resolution GFDL Coupled Climate Model: Implications for Seasonal Forecasting. <i>Journal of Climate</i> , 2016, 29, 8231-8248.	1.2	3
67	Atmosphere-Ocean Coupling Effect on Intense Tropical Cyclone Distribution and its Future Change with 60-km-AOGCM. <i>Scientific Reports</i> , 2016, 6, 29800.	1.6	25
68	Influences of Natural Variability and Anthropogenic Forcing on the Extreme 2015 Accumulated Cyclone Energy in the Western North Pacific. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, S131-S135.	1.7	29
69	Aerosol data assimilation using data from Himawari-8, a next-generation geostationary meteorological satellite. <i>Geophysical Research Letters</i> , 2016, 43, 5886-5894.	1.5	106
70	Impact of Strong ENSO on Regional Tropical Cyclone Activity in a High-Resolution Climate Model in the North Pacific and North Atlantic Oceans. <i>Journal of Climate</i> , 2016, 29, 2375-2394.	1.2	40
71	Improved Simulation of Tropical Cyclone Responses to ENSO in the Western North Pacific in the High-Resolution GFDL HiFLOR Coupled Climate Model*. <i>Journal of Climate</i> , 2016, 29, 1391-1415.	1.2	69
72	The Pacific Meridional Mode and the Occurrence of Tropical Cyclones in the Western North Pacific. <i>Journal of Climate</i> , 2016, 29, 381-398.	1.2	122

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73	More tropical cyclones in a cooler climate?. <i>Geophysical Research Letters</i> , 2015, 42, 6780-6784.	1.5	27
74	Effect of air-sea coupling on the frequency distribution of intense tropical cyclones over the northwestern Pacific. <i>Geophysical Research Letters</i> , 2015, 42, 10,415.	1.5	31
75	Simulation and Prediction of Category 4 and 5 Hurricanes in the High-Resolution GFDL HiFLOR Coupled Climate Model*. <i>Journal of Climate</i> , 2015, 28, 9058-9079.	1.2	181
76	Investigating the Influence of Anthropogenic Forcing and Natural Variability on the 2014 Hawaiian Hurricane Season. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, S115-S119.	1.7	39
77	Hurricanes and Climate: The U.S. CLIVAR Working Group on Hurricanes. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 997-1017.	1.7	158
78	Hurricanes and Climate: The U.S. CLIVAR Working Group on Hurricanes. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1440.	1.7	2
79	A Spectral Cumulus Parameterization Scheme Interpolating between Two Convective Updrafts with Semi-Lagrangian Calculation of Transport by Compensatory Subsidence. <i>Monthly Weather Review</i> , 2015, 143, 597-621.	0.5	82
80	Strengthening of the Walker circulation under globalwarming in an aqua-planet general circulation model simulation. <i>Advances in Atmospheric Sciences</i> , 2015, 32, 1473-1480.	1.9	15
81	Hydroclimate changes over Central America and the Caribbean in a global warming climate projected with 20-km and 60-km mesh MRI atmospheric general circulation models. <i>Papers in Meteorology and Geophysics</i> , 2014, 65, 15-33.	0.9	17
82	Contributing Factors to the Recent High Level of Accumulated Cyclone Energy (ACE) and Power Dissipation Index (PDI) in the North Atlantic*. <i>Journal of Climate</i> , 2014, 27, 3023-3034.	1.2	22
83	Influence of Model Biases on Projected Future Changes in Tropical Cyclone Frequency of Occurrence*. <i>Journal of Climate</i> , 2014, 27, 2159-2181.	1.2	57
84	Tracking Scheme Dependence of Simulated Tropical Cyclone Response to Idealized Climate Simulations. <i>Journal of Climate</i> , 2014, 27, 9197-9213.	1.2	86
85	An Abrupt Decrease in the Late-Season Typhoon Activity over the Western North Pacific*. <i>Journal of Climate</i> , 2014, 27, 4296-4312.	1.2	89
86	Moisture Asymmetry and MJO Eastward Propagation in an Aquaplanet General Circulation Model*. <i>Journal of Climate</i> , 2014, 27, 8747-8760.	1.2	40
87	Characteristics of tropical cyclones in high-resolution models in the present climate. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 1154-1172.	1.3	111
88	Exploratory analysis of extremely low tropical cyclone activity during the late season of 2010 and 1998 over the western North Pacific and the South China Sea. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 1141-1153.	1.3	20
89	Mechanism of the Indian Ocean Tropical Cyclone Frequency Changes due to Global Warming. , 2014, , 40-49.		8
90	Annual maximum 5-day rainfall total and maximum number of consecutive dry days over Central America and the Caribbean in the late twenty-first century projected by an atmospheric general circulation model with three different horizontal resolutions. <i>Theoretical and Applied Climatology</i> , 2014, 116, 155-168.	1.3	30

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91	Caribbean low-level jets and accompanying moisture fluxes in a global warming climate projected with <scp>CMIP3</scp> multi-model ensemble and fine-mesh atmospheric general circulation models. International Journal of Climatology, 2014, 34, 964-977.	1.5	21
92	Tropical cyclones in reanalysis data sets. Geophysical Research Letters, 2014, 41, 2133-2141.	1.5	125
93	Future Changes in Tropical Cyclone Activity in the North Indian Ocean Projected by the New High-Resolution MRI-AGCM. , 2014, , 65-71.		3
94	Future changes in tropical cyclone activity in the North Indian Ocean projected by high-resolution MRI-AGCMs. Climate Dynamics, 2013, 40, 1949-1968.	1.7	63
95	Resolution dependence of tropical cyclone formation in CMIP3 and finer resolution models. Climate Dynamics, 2013, 40, 585-599.	1.7	73
96	Will the South Asian monsoon overturning circulation stabilize any further?. Climate Dynamics, 2013, 40, 187-211.	1.7	144
97	Projected increase in tropical cyclones near Hawaii. Nature Climate Change, 2013, 3, 749-754.	8.1	88
98	Future change of the global monsoon revealed from 19 CMIP5 models. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1247-1260.	1.2	117
99	Attribution of Projected Future Changes in Tropical Cyclone Passage Frequency over the Western North Pacific. Journal of Climate, 2013, 26, 4096-4111.	1.2	30
100	Changes to environmental parameters that control tropical cyclone genesis under global warming. Geophysical Research Letters, 2013, 40, 2265-2270.	1.5	19
101	Multi-Model Ensemble Projection of Future Tropical Cyclone Characteristics due to Global Climate Change. Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering), 2012, 68, I_1251-I_1255.	0.0	0
102	Future Changes in Tropical Cyclone Activity Projected by the New High-Resolution MRI-AGCM. Journal of Climate, 2012, 25, 3237-3260.	1.2	342
103	Future changes in tropical cyclone activity projected by multi-physics and multi-SST ensemble experiments using the 60-km-mesh MRI-AGCM. Climate Dynamics, 2012, 39, 2569-2584.	1.7	174
104	Increase of global monsoon area and precipitation under global warming: A robust signal?. Geophysical Research Letters, 2012, 39, .	1.5	114
105	On the Mechanism of Tropical Cyclone Frequency Changes Due to Global Warming. Journal of the Meteorological Society of Japan, 2012, 90A, 397-408.	0.7	54
106	Climate Simulations Using MRI-AGCM3.2 with 20-km Grid. Journal of the Meteorological Society of Japan, 2012, 90A, 233-258.	0.7	413
107	Future Change of Western North Pacific Typhoons: Projections by a 20-km-Mesh Global Atmospheric Model*. Journal of Climate, 2011, 24, 1154-1169.	1.2	187
108	Effect of Model Resolution on Tropical Cyclone Climate Projections. Scientific Online Letters on the Atmosphere, 2010, 6, 73-76.	0.6	141

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109	Future Change of North Atlantic Tropical Cyclone Tracks: Projection by a 20-km-Mesh Global Atmospheric Model*. Journal of Climate, 2010, 23, 2699-2721.	1.2	188
110	Climate control of the global tropical storm days (1965â€“2008). Geophysical Research Letters, 2010, 37, .	1.5	56
111	The Tropical Cyclone Climate Model Intercomparison Project. , 2010, , 1-24.		11
112	A Reduction in Global Tropical Cyclone Frequency due to Global Warming. Scientific Online Letters on the Atmosphere, 2009, 5, 164-167.	0.6	105
113	Verification of Typhoon Forecasts for a 20 km-mesh High-Resolution Global Model. Journal of the Meteorological Society of Japan, 2008, 86, 669-698.	0.7	6
114	Development of an Effective Non-Linear Normal-Mode Initialization Method for a High-Resolution Global Model. Journal of the Meteorological Society of Japan, 2007, 85, 187-208.	0.7	40