Eric D Maloney

List of Publications by Year
in descending order

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134 papers	9,474 citations	41344 49 h-index	39675 94 g-index
143 all docs	143 docs citations	143 times ranked	5217 citing authors

#	Article	IF	Citations
1	Modulation of Eastern North Pacific Hurricanes by the Maddenâ€“Julian Oscillation. Journal of Climate, 2000, 13, 1451-1460.	3.2	429
2	Taking climate model evaluation to the next level. Nature Climate Change, 2019, 9, 102-110.	18.8	407
3	Modulation of Hurricane Activity in the Gulf of Mexico by the Madden-Julian Oscillation. Science, 2000, 287, 2002-2004.	12.6	340
4	Application of MJO Simulation Diagnostics to Climate Models. Journal of Climate, 2009, 22, 6413-6436.	3.2	331
5	Frictional Moisture Convergence in a Composite Life Cycle of the Maddenâ€“Julian Oscillation. Journal of Climate, 1998, 11, 2387-2403.	3.2	315
6	Moisture Modes and the Eastward Propagation of the MJO. Journals of the Atmospheric Sciences, 2013, 70, 187-192.	1.7	307
7	The Moist Static Energy Budget of a Composite Tropical Intraseasonal Oscillation in a Climate Model. Journal of Climate, 2009, 22, 711-729.	3.2	298
8	MJO Simulation Diagnostics. Journal of Climate, 2009, 22, 3006-3030.	3.2	265
9	The Maddenâ€“Julian Oscillation, Barotropic Dynamics, and North Pacific Tropical Cyclone Formation. Part I: Observations. Journals of the Atmospheric Sciences, 2001, 58, 2545-2558.	1.7	259
10	North American Climate in CMIP5 Experiments. Part I: Evaluation of Historical Simulations of Continental and Regional Climatology. Journal of Climate, 2013, 26, 9209-9245.	3.2	242
11	An Idealized Semi-Empirical Framework for Modeling the Maddenâ€“Julian Oscillation. Journals of the Atmospheric Sciences, 2012, 69, 1691-1705.	1.7	233
12	North American Climate in CMIP5 Experiments: Part III: Assessment of Twenty-First-Century Projections*. Journal of Climate, 2014, 27, 2230-2270.	3.2	231
13	Review of Tropicalâ€Extratropical Teleconnections on Intraseasonal Time Scales. Reviews of Geophysics, 2017, 55, 902-937.	23.0	227
14	Simulations of the Maddenâ€“Julian oscillation in four pairs of coupled and uncoupled global models. Climate Dynamics, 2006, 27, 573-592.	3.8	180
15	Surface Fluxes and Ocean Coupling in the Tropical Intraseasonal Oscillation. Journal of Climate, 2004, 17, 4368-4386.	3.2	176
16	All-Season Climatology and Variability of Atmospheric River Frequencies over the North Pacific. Journal of Climate, 2016, 29, 4885-4903.	3.2	173
17	The Sensitivity of Intraseasonal Variability in the NCAR CCM3 to Changes in Convective Parameterization. Journal of Climate, 2001, 14, 2015-2034.	3.2	160
18	Cracking the MJO nut. Geophysical Research Letters, 2013, 40, 1223-1230.	4.0	154

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19	A Systematic Relationship between Intraseasonal Variability and Mean State Bias in AGCM Simulations. Journal of Climate, 2011, 24, 5506-5520.	3.2	151
20	Intraseasonal moist static energy budget in reanalysis data. Journal of Geophysical Research, 2011, 116, .	3.3	137
21	Multi-scale meteorological conceptual analysis of observed active fire hotspot activity and smoke optical depth in the Maritime Continent. Atmospheric Chemistry and Physics, 2012, 12, 2117-2147.	4.9	134
22	MJO simulation in CMIP5 climate models: MJO skill metrics and process-oriented diagnosis. Climate Dynamics, 2017, 49, 4023-4045.	3.8	131
23	The Intraseasonal Oscillation and the Energetics of Summertime Tropical Western North Pacific Synoptic-Scale Disturbances. Journals of the Atmospheric Sciences, 2003, 60, 2153-2168.	1.7	130
24	Effect of ENSO and the MJO on western North Pacific tropical cyclones. Geophysical Research Letters, 2000, 27, 1739-1742.	4.0	126
25	North American Climate in CMIP5 Experiments. Part II: Evaluation of Historical Simulations of Intraseasonal to Decadal Variability. Journal of Climate, 2013, 26, 9247-9290.	3.2	124
26	Surface Fluxes and Tropical Intraseasonal Variability: a Reassessment. Journal of Advances in Modeling Earth Systems, 2010, 2, .	3.8	122
27	The role of surface heat fluxes in tropical intraseasonal oscillations. Nature Geoscience, 2008, 1, 653-657.	12.9	120
28	The Influence of the Maddenâ€"Julian Oscillation on Northern Hemisphere Winter Blocking. Journal of Climate, 2016, 29, 4597-4616.	3.2	116
29	Skillful empirical subseasonal prediction of landfalling atmospheric river activity using the Maddenâ€"Julian oscillation and quasi-biennial oscillation. Npj Climate and Atmospheric Science, 2018, 1, .	6.8	111
30	Fifty Years of Research on the Maddenâ€Julian Oscillation: Recent Progress, Challenges, and Perspectives. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD030911.	3.3	106
31	Fundamental Causes of Propagating and Nonpropagating MJOs in MJOTF/GASS Models. Journal of Climate, 2017, 30, 3743-3769.	3.2	102
32	Intraseasonal Variability in an Aquaplanet General Circulation Model. Journal of Advances in Modeling Earth Systems, 2010, 2, .	3.8	101
33	The Role of Moistureâ€"Convection Feedbacks in Simulating the Maddenâ€"Julian Oscillation. Journal of Climate, 2011, 24, 2754-2770.	3.2	100
34	Advancing atmospheric river forecasts into subseasonalâ€toâ€seasonal time scales. Geophysical Research Letters, 2017, 44, 7528-7536.	4.0	98
35	Process-Oriented MJO Simulation Diagnostic: Moisture Sensitivity of Simulated Convection. Journal of Climate, 2014, 27, 5379-5395.	3.2	92
36	Impact of the MJO on the boreal winter extratropical circulation. Geophysical Research Letters, 2014, 41, 6055-6062.	4.0	90

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37	Intraseasonal Variability of the West African Monsoon and Atlantic ITCZ. Journal of Climate, 2008, 21, 2898-2918.	3.2	89
38	Maddenâ€“Julian Oscillation Pacific Teleconnections: The Impact of the Basic State and MJO Representation in General Circulation Models. Journal of Climate, 2017, 30, 4567-4587.	3.2	85
39	Gross Moist Stability and MJO Simulation Skill in Three Full-Physics GCMs. Journals of the Atmospheric Sciences, 2014, 71, 3327-3349.	1.7	84
40	MJO-Related SST Variations over the Tropical Eastern Pacific during Northern Hemisphere Summer. Journal of Climate, 2002, 15, 675-689.	3.2	78
41	An Assessment of the Sea Surface Temperature Influence on Surface Wind Stress in Numerical Weather Prediction and Climate Models. Journal of Climate, 2006, 19, 2743-2762.	3.2	77
42	The moist static energy budget in NCAR CAM5 hindcasts during DYNAMO. Journal of Advances in Modeling Earth Systems, 2014, 6, 420-440.	3.8	73
43	Maddenâ€“Julian oscillation changes under anthropogenic warming. Nature Climate Change, 2019, 9, 26-33.	18.8	71
44	Vertically resolved weak temperature gradient analysis of the <scp>M</scp>addenâ€<scp>J</scp>ulian <scp>O</scp>scillation in <scp>SPâ€CESM</scp>. Journal of Advances in Modeling Earth Systems, 2016, 8, 1586-1619.	3.8	65
45	A Unified Moisture Mode Framework for Seasonality of the Maddenâ€“Julian Oscillation. Journal of Climate, 2018, 31, 4215-4224.	3.2	61
46	Atmospheric Mechanisms for MJO Decay Over the Maritime Continent. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5188-5204.	3.3	59
47	Prediction of the Midlatitude Response to Strong Maddenâ€Julian Oscillation Events on S2S Time Scales. Geophysical Research Letters, 2018, 45, 463-470.	4.0	57
48	The Consistency of MJO Teleconnection Patterns: An Explanation Using Linear Rossby Wave Theory. Journal of Climate, 2019, 32, 531-548.	3.2	56
49	Objective Diagnostics and the Maddenâ€“Julian Oscillation. Part II: Application to Moist Static Energy and Moisture Budgets. Journal of Climate, 2015, 28, 7786-7808.	3.2	54
50	Tropical Intraseasonal Variability in Version 3 of the GFDL Atmosphere Model. Journal of Climate, 2013, 26, 426-449.	3.2	53
51	Variability of the extent of the Hadley circulation in the southern hemisphere: a regional perspective. Climate Dynamics, 2018, 50, 129-142.	3.8	52
52	Increasing potential for intense tropical and subtropical thunderstorms under global warming. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11657-11662.	7.1	51
53	Windâ€driven latent heat flux and the intraseasonal oscillation. Geophysical Research Letters, 2008, 35, .	4.0	49
54	The Influence of the MJO on Upstream Precursors to African Easterly Waves. Journal of Climate, 2012, 25, 3219-3236.	3.2	49

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55	The Maddenâ€“Julian Oscillation, Barotropic Dynamics, and North Pacific Tropical Cyclone Formation. Part II: Stochastic Barotropic Modeling. Journals of the Atmospheric Sciences, 2001, 58, 2559-2570.	1.7	48
56	Changes in Maddenâ€Julian Oscillation Precipitation and Wind Variance Under Global Warming. Geophysical Research Letters, 2018, 45, 7148-7155.	4.0	45
57	Sensitivity of tropical intraseasonal variability to the pattern of climate warming. Journal of Advances in Modeling Earth Systems, 2013, 5, 32-47.	3.8	44
58	Modulation of atmospheric rivers near Alaska and the U.S. West Coast by northeast Pacific height anomalies. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12,751.	3.3	43
59	Satellite and Buoy Observations of Boreal Summer Intraseasonal Variability in the Tropical Northeast Pacific. Monthly Weather Review, 2007, 135, 3-19.	1.4	42
60	Climate change and the <scp>M</scp>addenâ€<scp>J</scp>ulian <scp>O</scp>scillation: A vertically resolved weak temperature gradient analysis. Journal of Advances in Modeling Earth Systems, 2017, 9, 307-331.	3.8	42
61	Skillful Subseasonal Forecasts of Weekly Tornado and Hail Activity Using the Maddenâ€Julian Oscillation. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,661.	3.3	41
62	The Amplification of East Pacific Maddenâ€“Julian Oscillation Convection and Wind Anomalies during Juneâ€“November. Journal of Climate, 2003, 16, 3482-3497.	3.2	40
63	Subseasonal SST Variability in the Tropical Eastern North Pacific during Boreal Summer. Journal of Climate, 2008, 21, 4149-4167.	3.2	40
64	Convective moisture adjustment time scale as a key factor in regulating model amplitude of the Maddenâ€Julian Oscillation. Geophysical Research Letters, 2016, 43, 10,412.	4.0	36
65	Process-Oriented Evaluation of Climate and Weather Forecasting Models. Bulletin of the American Meteorological Society, 2019, 100, 1665-1686.	3.3	36
66	An Intraseasonal Prediction Model of Atlantic and East Pacific Tropical Cyclone Genesis. Monthly Weather Review, 2013, 141, 1925-1942.	1.4	34
67	Interactions between Moisture and Tropical Convection. Part I: The Coevolution of Moisture and Convection. Journals of the Atmospheric Sciences, 2020, 77, 1783-1799.	1.7	33
68	On the Convective Coupling and Moisture Organization of East Pacific Easterly Waves. Journals of the Atmospheric Sciences, 2015, 72, 3850-3870.	1.7	31
69	The Dynamics of the ENSOâ€“Atlantic Hurricane Teleconnection: ENSO-Related Changes to the North Africanâ€“Asian Jet Affect Atlantic Basin Tropical Cyclogenesis. Journal of Climate, 2009, 22, 2458-2482.	3.2	30
70	Tropical Intraseasonal Modes of the Atmosphere. Annual Review of Environment and Resources, 2014, 39, 189-215.	13.4	29
71	Energetics of East Pacific Easterly Waves during Intraseasonal Events. Journal of Climate, 2014, 27, 7603-7621.	3.2	29
72	The Impact of the Maddenâ€“Julian Oscillation on High-Latitude Winter Blocking during El NiÃ±oâ€“Southern Oscillation Events. Journal of Climate, 2018, 31, 5293-5318.	3.2	29

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73	An Intraseasonal Oscillation Composite Life Cycle in the NCAR CCM3.6 with Modified Convection. Journal of Climate, 2002, 15, 964-982.	3.2	28
74	Analysis of MJO Wind-Flux Feedbacks in the Indian Ocean Using RAMA Buoy Observations. Journal of the Meteorological Society of Japan, 2015, 93A, 1-20.	1.8	28
75	Systematic Errors in Weather and Climate Models: Nature, Origins, and Ways Forward. Bulletin of the American Meteorological Society, 2018, 99, ES67-ES70.	3.3	28
76	Remote Forcing versus Local Feedback of East Pacific Intraseasonal Variability during Boreal Summer. Journal of Climate, 2013, 26, 3575-3596.	3.2	25
77	Role of North Indian Ocean Airâ€“Sea Interaction in Summer Monsoon Intraseasonal Oscillation. Journal of Climate, 2018, 31, 7885-7908.	3.2	24
78	The Global Teleconnection Signature of the Maddenâ€Julian Oscillation and Its Modulation by the Quasiâ€Biennial Oscillation. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032653.	3.3	24
79	Interannual Tropical Pacific Sea Surface Temperatures and Their Relation to Preceding Sea Level Pressures in the NCAR CCSM2. Journal of Climate, 2006, 19, 998-1012.	3.2	23
80	Convective Transition Statistics over Tropical Oceans for Climate Model Diagnostics: GCM Evaluation. Journals of the Atmospheric Sciences, 2020, 77, 379-403.	1.7	22
81	MJO Teleconnections over the PNA Region in Climate Models. Part II: Impacts of the MJO and Basic State. Journal of Climate, 2020, 33, 5081-5101.	3.2	22
82	Moisture Mode Theoryâ€™s Contribution to Advances in our Understanding of the Madden-Julian Oscillation and Other Tropical Disturbances. Current Climate Change Reports, 2021, 7, 72-85.	8.6	22
83	Monsoon intraseasonal oscillations as simulated by the superparameterized Community Atmosphere Model. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	21
84	Large-scale controls of propagation of the Madden-Julian Oscillation. Npj Climate and Atmospheric Science, 2020, 3, .	6.8	21
85	The Consistency of MJO Teleconnection Patterns on Interannual Time Scales. Journal of Climate, 2020, 33, 3471-3486.	3.2	21
86	Intraseasonal variability in the far-east pacific: investigation of the role of airâ€“sea coupling in a regional coupled model. Climate Dynamics, 2011, 36, 867-890.	3.8	20
87	Effect of SST Distribution and Radiative Feedbacks on the Simulation of Intraseasonal Variability in an Aquaplanet GCM. Journal of the Meteorological Society of Japan, 2011, 89, 195-210.	1.8	20
88	Intraseasonal Eastern Pacific Precipitation and SST Variations in a GCM Coupled to a Slab Ocean Model. Journal of Climate, 2002, 15, 2989-3007.	3.2	18
89	A Modeling Study of Summertime East Pacific Wind-Induced Oceanâ€“Atmosphere Exchange in the Intraseasonal Oscillation. Journal of Climate, 2005, 18, 568-584.	3.2	18
90	Process-Oriented Diagnosis of East Pacific Warm Pool Intraseasonal Variability. Journal of Climate, 2014, 27, 6305-6324.	3.2	18

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91	Initiation of an intraseasonal oscillation in an aquaplanet general circulation model. Journal of Advances in Modeling Earth Systems, 2015, 7, 1956-1976.	3.8	18
92	Mechanisms for Global Warming Impacts on Maddenâ€“Julian Oscillation Precipitation Amplitude. Journal of Climate, 2019, 32, 6961-6975.	3.2	18
93	Intraseasonal Variability of the Diurnal Cycle of Precipitation in the Philippines. Journals of the Atmospheric Sciences, 2019, 76, 3633-3654.	1.7	18
94	Topographic Effects on the Luzon Diurnal Cycle during the BSISO. Journals of the Atmospheric Sciences, 2020, 77, 3-30.	1.7	18
95	Simulations of the Eastern North Pacific Intraseasonal Variability in CMIP5 GCMs. Journal of Climate, 2013, 26, 3489-3510.	3.2	17
96	MJO Teleconnections over the PNA Region in Climate Models. Part I: Performance- and Process-Based Skill Metrics. Journal of Climate, 2020, 33, 1051-1067.	3.2	17
97	In Situ Initiation of East Pacific Easterly Waves in a Regional Model. Journals of the Atmospheric Sciences, 2017, 74, 333-351.	1.7	16
98	Challenges and Opportunities in MJO Studies. Bulletin of the American Meteorological Society, 2017, 98, ES53-ES56.	3.3	16
99	Interactions between Moisture and Tropical Convection. Part II: The Convective Coupling of Equatorial Waves. Journals of the Atmospheric Sciences, 2020, 77, 1801-1819.	1.7	15
100	Consequences of systematic model drift in DYNAMO MJO hindcasts with SPâ€CAM and CAM5. Journal of Advances in Modeling Earth Systems, 2015, 7, 1051-1074.	3.8	14
101	Influence of the Maddenâ€“Julian Oscillation and Caribbean Low-Level Jet on East Pacific Easterly Wave Dynamics. Journals of the Atmospheric Sciences, 2018, 75, 1121-1141.	1.7	14
102	Transient Response of MJO Precipitation and Circulation to Greenhouse Gas Forcing. Geophysical Research Letters, 2019, 46, 13546-13555.	4.0	14
103	Genesis of an East Pacific Easterly Wave from a Panama Bight MCS: A Case Study Analysis from June 2012. Journals of the Atmospheric Sciences, 2020, 77, 3567-3584.	1.7	14
104	Observations of eastward propagation of atmospheric intraseasonal oscillations from the Pacific to the Atlantic. Journal of Geophysical Research, 2011, 116, .	3.3	13
105	The Intraseasonal Variability of African Easterly Wave Energetics. Journal of Climate, 2014, 27, 6559-6580.	3.2	13
106	Dynamics-oriented diagnostics for the Madden-Julian Oscillation. Journal of Climate, 2018, , .	3.2	12
107	Quasi-biweekly oscillation of the Asian monsoon rainfall in late summer and autumn: different types of structure and propagation. Climate Dynamics, 2019, 53, 6611-6628.	3.8	12
108	Simulation of the Madden-Julian Oscillation Using General Circulation Models. World Scientific Series on Asia-Pacific Weather and Climate, 2017, , 119-130.	0.2	12

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109	Skillful All-Season S2S Prediction of U.S. Precipitation Using the MJO and QBO. Weather and Forecasting, 2020, 35, 2179-2198.	1.4	12
110	Idealized Hot Spot Experiments with a General Circulation Model. Journal of Climate, 2007, 20, 908-925.	3.2	11
111	Objective Diagnostics and the Maddenâ€“Julian Oscillation. Part I: Methodology. Journal of Climate, 2015, 28, 4127-4140.	3.2	11
112	The Importance of Past MJO Activity in Determining the Future State of the Midlatitude Circulation. Journal of Climate, 2020, 33, 2131-2147.	3.2	10
113	Wind Speed, Surface Flux, and Intraseasonal Convection Coupling From CYGNSS Data. Geophysical Research Letters, 2020, 47, e2020GL090376.	4.0	10
114	Shortcomings in climate model simulations of the ENSO-Atlantic hurricane teleconnection. Climate Dynamics, 2012, 38, 1973-1988.	3.8	7
115	Dr. Yanaiâ€™s Contributions to the Discovery and Science of the MJO. Meteorological Monographs, 2016, 56, 4.1-4.18.	5.0	7
116	Windâ€“Flux Feedbacks and Convective Organization during the November 2011 MJO Event in a High-Resolution Model. Journals of the Atmospheric Sciences, 2018, 75, 57-84.	1.7	7
117	Atmospheric Mixed Layer Convergence from Observed MJO Sea Surface Temperature Anomalies. Journal of Climate, 2020, 33, 547-558.	3.2	7
118	Large-Scale State and Evolution of the Atmosphere and Ocean during PISTON 2018. Journal of Climate, 2021, 34, 5017-5035.	3.2	7
119	Changes to the Maddenâ€Julian Oscillation in Coupled and Uncoupled Aquaplanet Simulations With 4xCO₂. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002179.	3.8	6
120	Investigating Recent Changes in MJO Precipitation and Circulation in Multiple Reanalyses. Geophysical Research Letters, 2020, 47, e2020GL090139.	4.0	6
121	Internal Intraseasonal Variability of the West African Monsoon in WRF. Journal of Climate, 2017, 30, 5815-5833.	3.2	5
122	Mapping Large-Scale Climate Variability to Hydrological Extremes: An Application of the Linear Inverse Model to Subseasonal Prediction. Journal of Climate, 2021, 34, 4207-4225.	3.2	5
123	Using Simple, Explainable Neural Networks to Predict the Maddenâ€Julian Oscillation. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	5
124	The Boreal Summer Maddenâ€“Julian Oscillation and Moist Convective Morphology over the Maritime Continent. Journals of the Atmospheric Sciences, 2020, 77, 647-667.	1.7	4
125	Easterly Waves in the East Pacific during the OTREC 2019 Field Campaign. Journals of the Atmospheric Sciences, 2021, 78, 4071-4088.	1.7	4
126	Mixed layer modeling in the East Pacific warm pool during 2002. Climate Dynamics, 2012, 38, 2559-2573.	3.8	3

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127	The variability of South Korean temperature associated with climate indicators. Theoretical and Applied Climatology, 2019, 138, 469-489.	2.8	3
128	Review: MJO Propagation over the Maritime Continent. World Scientific Series on Asia-Pacific Weather and Climate, 2021, , 261-272.	0.2	2
129	Quasi-Biweekly Extensions of the Monsoon Winds and the Philippines Diurnal Cycle. Monthly Weather Review, 2021, , .	1.4	2
130	Role of the Tropics in Stateâ€Dependent Improvements of US West Coast NOAA Unified Forecast System Precipitation Forecasts. Geophysical Research Letters, 2022, 49, .	4.0	2
131	The Water Cycle across Scales. Bulletin of the American Meteorological Society, 2005, 86, 1743-1746.	3.3	1
132	Effects of the changing heating profile associated with melting layers in a climate model. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 3110-3121.	2.7	1
133	Progress and Status of MJO Simulation in Climate Models and Process-Oriented Diagnostics. World Scientific Series on Asia-Pacific Weather and Climate, 2021, , 315-326.	0.2	1
134	Global Climate Model Simulations of North America. Regional Climate Studies, 2014, , 167-200.	1.2	1