Michael J Mcphaden

List of Publications by Year
in descending order

315	33,222	4388	4991
papers	citations	86 h-index	167 g-index

348	348	348	16254
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Increasing frequency of extreme El NiÃ±o events due to greenhouse warming. Nature Climate Change, 2014, 4, 111-116.	18.8	1,572
2	ENSO as an Integrating Concept in Earth Science. Science, 2006, 314, 1740-1745.	12.6	1,315
3	Genesis and Evolution of the 1997-98 El Nino. Science, 1999, 283, 950-954.	12.6	1,141
4	Recent intensification of wind-driven circulation in the Pacific and the ongoing warming hiatus. Nature Climate Change, 2014, 4, 222-227.	18.8	1,115
5	The Tropical Ocean-Global Atmosphere observing system: A decade of progress. Journal of Geophysical Research, 1998, 103, 14169-14240.	3.3	884
6	El NiÃ±oâ€“Southern Oscillation complexity. Nature, 2018, 559, 535-545.	27.8	702
7	ENSO and greenhouse warming. Nature Climate Change, 2015, 5, 849-859.	18.8	596
8	Enhanced warming over the global subtropical western boundary currents. Nature Climate Change, 2012, 2, 161-166.	18.8	564
9	Biological and Chemical Response of the Equatorial Pacific Ocean to the 1997-98 El Niño. Science, 1999, 286, 2126-2131.	12.6	553
10	Increasing intensity of El NiÃ±o in the centralâ€equatorial Pacific. Geophysical Research Letters, 2010, 37, .	4.0	543
11	Observations of Warm Water Volume Changes in the Equatorial Pacific and Their Relationship to El NiÃ±o and La NiÃ±a. Journal of Climate, 2000, 13, 3551-3559.	3.2	516
12	RAMA: The Research Moored Array for Africanâ€“Asianâ€“Australian Monsoon Analysis and Prediction[*]. Bulletin of the American Meteorological Society, 2009, 90, 459-480.	3.3	489
13	Increased frequency of extreme LaÂNiÃ±a events under greenhouse warming. Nature Climate Change, 2015, 5, 132-137.	18.8	479
14	Slowdown of the meridional overturning circulation in the upper Pacific Ocean. Nature, 2002, 415, 603-608.	27.8	455
15	Observations of Coupling between Surface Wind Stress and Sea Surface Temperature in the Eastern Tropical Pacific. Journal of Climate, 2001, 14, 1479-1498.	3.2	425
16	Pantropical climate interactions. Science, 2019, 363, .	12.6	419
17	Increased variability of eastern Pacific El NiÃ±o under greenhouse warming. Nature, 2018, 564, 201-206.	27.8	394
18	Forcing of intraseasonal Kelvin waves in the equatorial Pacific. Journal of Geophysical Research, 1995, 100, 10613.	3.3	370

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19	Mechanism of the Zonal Displacements of the Pacific Warm Pool: Implications for ENSO. Science, 1996, 274, 1486-1489.	12.6	350
20	The Defining Characteristics of ENSO Extremes and the Strong 2015/2016 El NiÃ±o. Reviews of Geophysics, 2017, 55, 1079-1129.	23.0	337
21	El NiÃ±o and its relationship to changing background conditions in the tropical Pacific Ocean. Geophysical Research Letters, 2011, 38, .	4.0	334
22	ENSO Atmospheric Teleconnections and Their Response to Greenhouse Gas Forcing. Reviews of Geophysics, 2018, 56, 185-206.	23.0	330
23	La NiÃ±a forces unprecedented Leeuwin Current warming in 2011. Scientific Reports, 2013, 3, 1277.	3.3	326
24	Climate impacts of the El NiÃ±oâ€“Southern Oscillation on South America. Nature Reviews Earth & Environment, 2020, 1, 215-231.	29.7	318
25	Evolution of the 2002/03 El NiÃ±o*. Bulletin of the American Meteorological Society, 2004, 85, 677-696.	3.3	311
26	THE PIRATA PROGRAM. Bulletin of the American Meteorological Society, 2008, 89, 1111-1126.	3.3	309
27	TropFlux: air-sea fluxes for the global tropical oceansâ€”description and evaluation. Climate Dynamics, 2012, 38, 1521-1543.	3.8	291
28	The Influence of Sea-Surface Temperature on Surface Wind in the Eastern Equatorial Pacific: Weekly to Monthly Variability. Journal of Climate, 1989, 2, 1500-1506.	3.2	233
29	Controls on tropical Pacific Ocean productivity revealed through nutrient stress diagnostics. Nature, 2006, 442, 1025-1028.	27.8	231
30	Equatorial waves and the 1997-98 El NiÃ±o. Geophysical Research Letters, 1999, 26, 2961-2964.	4.0	225
31	Observed freshening and warming of the western Pacific Warm Pool. Climate Dynamics, 2009, 33, 565-589.	3.8	221
32	A 21st century shift in the relationship between ENSO SST and warm water volume anomalies. Geophysical Research Letters, 2012, 39, .	4.0	217
33	Indian Ocean Decadal Variability: A Review. Bulletin of the American Meteorological Society, 2014, 95, 1679-1703.	3.3	210
34	TOGA-TAO and the 1991â€“93 El NiÃ±o Southern Oscillation Event. Oceanography, 1993, 6, 36-44.	1.0	210
35	Tropical Pacific Ocean heat content variations and ENSO persistence barriers. Geophysical Research Letters, 2003, 30, .	4.0	204
36	A Model Study of Oceanic Mechanisms Affecting Equatorial Pacific Sea Surface Temperature during the 1997â€“98 El NiÃ±o. Journal of Physical Oceanography, 2001, 31, 1649-1675.	1.7	202

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37	Interior Pycnocline Flow from the Subtropical to the Equatorial Pacific Ocean*. Journal of Physical Oceanography, 1999, 29, 3073-3089.	1.7	198
38	Changing El NiÃ±oâ€“Southern Oscillation in a warming climate. Nature Reviews Earth & Environment, 2021, 2, 628-644.	29.7	197
39	Playing hide and seek with El NiÃ±o. Nature Climate Change, 2015, 5, 791-795.	18.8	189
40	A Pilot Research Moored Array in the Tropical Atlantic (PIRATA). Bulletin of the American Meteorological Society, 1998, 79, 2019-2031.	3.3	188
41	Oceanic Equatorial Waves and the 1991â€“93 El NiÃ±o. Journal of Climate, 1995, 8, 1757-1774.	3.2	181
42	Seasonal and interannual variability of CO2 in the equatorial Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 2443-2469.	1.4	176
43	The Tropical Atmosphere Ocean Array Is Completed. Bulletin of the American Meteorological Society, 1995, 76, 739-744.	3.3	175
44	Continued increase of extreme ElÂNiÃ±o frequency long after 1.5â€‰Â°C warming stabilization. Nature Climate Change, 2017, 7, 568-572.	18.8	174
45	Variability of surface layer hydrography in the tropical Pacific Ocean. Journal of Geophysical Research, 1997, 102, 23063-23078.	3.3	168
46	Pacific Ocean circulation rebounds. Geophysical Research Letters, 2004, 31, .	4.0	165
47	How the July 2014 easterly wind burst gave the 2015â€“2016 El NiÃ±o a head start. Geophysical Research Letters, 2016, 43, 6503-6510.	4.0	162
48	More extreme swings of the South Pacific convergence zone due to greenhouse warming. Nature, 2012, 488, 365-369.	27.8	160
49	Decadal variability of the air-sea CO2fluxes in the equatorial Pacific Ocean. Journal of Geophysical Research, 2006, 111, .	3.3	159
50	The Relationship between Sea Surface Temperature and Latent Heat Flux in the Equatorial Pacific. Journal of Climate, 1995, 8, 589-605.	3.2	158
51	Ocean currents evident in satellite wind data. Geophysical Research Letters, 2001, 28, 2469-2472.	4.0	158
52	The Surface-Layer Heat Balance in the Equatorial Pacific Ocean. Part I: Mean Seasonal Cycle*. Journal of Physical Oceanography, 1999, 29, 1812-1831.	1.7	155
53	Decadal phase change in largeâ€scale sea level and winds in the Indoâ€Pacific region at the end of the 20th century. Geophysical Research Letters, 2008, 35, .	4.0	155
54	Equatorial Pacific Ocean Horizontal Velocity, Divergence, and Upwelling*. Journal of Physical Oceanography, 2001, 31, 839-849.	1.7	151

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55	Seasonal variability in the surface currents of the equatorial Pacific. Journal of Geophysical Research, 1994, 99, 20323.	3.3	143
56	The 1991â€“1993 El NiÃ±o in the central Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 295-333.	1.4	142
57	Seasonal mixed layer heat budget of the tropical Atlantic Ocean. Journal of Geophysical Research, 2003, 108, .	3.3	139
58	Asymmetry in zonal phase propagation of ENSO sea surface temperature anomalies. Geophysical Research Letters, 2009, 36, .	4.0	137
59	The upper ocean heat balance in the western equatorial Pacific warm pool during September-December 1992. Journal of Geophysical Research, 1997, 102, 8533-8553.	3.3	134
60	Tropical explosive volcanic eruptions can trigger El NiÃ±o by cooling tropical Africa. Nature Communications, 2017, 8, 778.	12.8	132
61	Dynamics of Seasonal and Intraseasonal Variability in the Eastern Equatorial Pacific. Journal of Physical Oceanography, 1988, 18, 1713-1732.	1.7	131
62	The Surface-Layer Heat Balance in the Equatorial Pacific Ocean. Part II: Interannual Variability*. Journal of Physical Oceanography, 2000, 30, 2989-3008.	1.7	130
63	El Nin-Southern Oscillation Displacements of the Western Equatorial Pacific Warm Pool. Science, 1990, 250, 1385-1388.	12.6	128
64	Seasonal Variability in the Equatorial Pacific. Journal of Physical Oceanography, 1999, 29, 925-947.	1.7	127
65	Oceanâ€Atmosphere Interactions During Cyclone Nargis. Eos, 2009, 90, 53-54.	0.1	122
66	Large scale dynamics and MJO forcing of ENSO variability. Geophysical Research Letters, 2006, 33, .	4.0	121
67	The response of the equatorial Pacific Ocean to a westerly wind burst in May 1986. Journal of Geophysical Research, 1988, 93, 10589-10603.	3.3	119
68	Cirene: Airâ€"Sea Interactions in the Seychellesâ€"Chagos Thermocline Ridge Region. Bulletin of the American Meteorological Society, 2009, 90, 45-62.	3.3	116
69	Late-twentieth-century emergence of the El NiÃ±o propagation asymmetry and future projections. Nature, 2013, 504, 126-130.	27.8	116
70	Twofold expansion of the Indo-Pacific warm pool warps the MJO life cycle. Nature, 2019, 575, 647-651.	27.8	114
71	The response of the western equatorial Pacific Ocean to westerly wind bursts during November 1989 to January 1990. Journal of Geophysical Research, 1992, 97, 14289-14303.	3.3	110
72	Decadal variability of the Pacific subtropical cells and their influence on the southeast Indian Ocean. Geophysical Research Letters, 2010, 37, .	4.0	109

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73	Seasonal sea surface cooling in the equatorial Pacific cold tongue controlled by ocean mixing. Nature, 2013, 500, 64-67.	27.8	104
74	Time and space scales for sea surface salinity in the tropical oceans. Deep-Sea Research Part I: Oceanographic Research Papers, 2005, 52, 787-813.	1.4	103
75	Intraseasonal variability in barrier layer thickness in the south central Bay of Bengal. Journal of Geophysical Research, 2011, 116, .	3.3	103
76	TropFlux wind stresses over the tropical oceans: evaluation and comparison with other products. Climate Dynamics, 2013, 40, 2049-2071.	3.8	102
77	The NCEP GODAS Ocean Analysis of the Tropical Pacific Mixed Layer Heat Budget on Seasonal to Interannual Time Scales. Journal of Climate, 2010, 23, 4901-4925.	3.2	101
78	Assessing the Twenty-First-Century Shift in ENSO Variability in Terms of the Bjerknes Stability Index*. Journal of Climate, 2014, 27, 2577-2587.	3.2	101
79	The impact of the AMO on multidecadal ENSO variability. Geophysical Research Letters, 2017, 44, 3877-3886.	4.0	101
80	Observational Evidence for Flow between the Subtropical and Tropical Atlantic: The Atlantic Subtropical Cells*. Journal of Physical Oceanography, 2003, 33, 1783-1797.	1.7	100
81	The child prodigy of 1997-98. Nature, 1999, 398, 559-561.	27.8	98
82	Evaluating Climate Models with the CLIVAR 2020 ENSO Metrics Package. Bulletin of the American Meteorological Society, 2021, 102, E193-E217.	3.3	93
83	Intraseasonal Surface Cooling in the Equatorial Western Pacific*. Journal of Climate, 2000, 13, 2261-2276.	3.2	92
84	Decadal variations and trends in tropical Pacific sea surface salinity since 1970. Journal of Geophysical Research, 2007, 112, .	3.3	92
85	Decadal climate variability in the tropical Pacific: Characteristics, causes, predictability, and prospects. Science, 2021, 374, eaay9165.	12.6	92
86	Decadal variability of the shallow Pacific meridional overturning circulation: Relation to tropical sea surface temperatures in observations and climate change models. Ocean Modelling, 2006, 15, 250-273.	2.4	91
87	Seasonal-to-Interannual Time-Scale Dynamics of the Equatorial Undercurrent in the Indian Ocean. Journal of Physical Oceanography, 2015, 45, 1532-1553.	1.7	91
88	Strong Indian Ocean sea surface temperature signals associated with the Maddenâ€Julian Oscillation in late 2007 and early 2008. Geophysical Research Letters, 2008, 35, .	4.0	90
89	Wyrtki Jet dynamics: Seasonal variability. Journal of Geophysical Research, 2010, 115, .	3.3	90
90	Meridional movement of wind anomalies during ENSO events and their role in event termination. Geophysical Research Letters, 2013, 40, 749-754.	4.0	90

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91	On the Inconsistent Relationship between Pacific and Atlantic NiÃ±os*. Journal of Climate, 2012, 25, 4294-4303.	3.2	87
92	Variability of the sea surface temperature in the eastern equatorial Pacific during 1986â€“1988. Journal of Geophysical Research, 1991, 96, 10553-10566.	3.3	86
93	Why did the 2011â€“2012 La NiÃ±a cause a severe drought in the Brazilian Northeast?. Geophysical Research Letters, 2014, 41, 1012-1018.	4.0	86
94	Temperature inversions and their influence on the mixed layer heat budget during the winters of 2006â€“2007 and 2007â€“2008 in the Bay of Bengal. Journal of Geophysical Research: Oceans, 2013, 118, 2426-2437.	2.6	85
95	Interannual sea surface salinity and temperature changes in the western Pacific warm pool during 1992-2000. Journal of Geophysical Research, 2002, 107, SRF 3-1-SRF 3-17.	3.3	84
96	Variability in the Western Equatorial Pacific Ocean during the 1986â€“87 El NiÃ±o/Southern Oscillation Event. Journal of Physical Oceanography, 1990, 20, 190-208.	1.7	83
97	Barrier layer formation during westerly wind bursts. Journal of Geophysical Research, 2002, 107, SRF 21-1-SRF 21-12.	3.3	83
98	Extreme Noiseâ€“Extreme El NiÃ±o: How State-Dependent Noise Forcing Creates El NiÃ±oâ€“La NiÃ±a Asymmetry. Journal of Climate, 2016, 29, 5483-5499.	3.2	83
99	Impact of Barrier Layer Thickness on SST in the Central Tropical North Atlantic*. Journal of Climate, 2009, 22, 285-299.	3.2	82
100	A TOGA Retrospective. Oceanography, 2010, 23, 86-103.	1.0	82
101	Dynamics of zonal current variations associated with the Indian Ocean dipole. Journal of Geophysical Research, 2010, 115, .	3.3	82
102	Upper ocean salinity balance in the western equatorial Pacific. Journal of Geophysical Research, 1998, 103, 27567-27587.	3.3	81
103	Interannual Variability in Warm Water Volume Transports in the Equatorial Pacific during 1993â€“99*. Journal of Physical Oceanography, 2001, 31, 1324-1345.	1.7	81
104	Interaction between the Atlantic meridional and NiÃ±o modes. Geophysical Research Letters, 2010, 37, .	4.0	81
105	The Tropical Atlantic Observing System. Frontiers in Marine Science, 2019, 6, .	2.5	80
106	Deep-reaching acceleration of global mean ocean circulation over the past two decades. Science Advances, 2020, 6, eaax7727.	10.3	80
107	Evolution of the 2006â€“2007 El NiÃ±o: the role of intraseasonal to interannual time scale dynamics. Advances in Geosciences, 0, 14, 219-230.	12.0	80
108	Biological-physical coupling in the Central Equatorial Pacific during the onset of the 1997-98 El NiÃ±o. Geophysical Research Letters, 1998, 25, 3543-3546.	4.0	79

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109	Upper equatorial Pacific Ocean current and salinity variability during the 1996-1998 El NiÃ±o-La NiÃ±a cycle. Journal of Geophysical Research, 2000, 105, 1037-1053.	3.3	79
110	Observed correlation of surface salinity, temperature and barrier layer at the eastern edge of the western Pacific warm pool. Geophysical Research Letters, 2006, 33, .	4.0	79
111	Strengthened Indonesian Throughflow Drives Decadal Warming in the Southern Indian Ocean. Geophysical Research Letters, 2018, 45, 6167-6175.	4.0	79
112	Impact of Saharan Dust on Tropical North Atlantic SST*. Journal of Climate, 2008, 21, 5048-5060.	3.2	74
113	Seasonal mixed layer salinity balance of the tropical North Atlantic Ocean. Journal of Geophysical Research, 2008, 113, .	3.3	73
114	MISMO FIELD EXPERIMENT IN THE EQUATORIAL INDIAN OCEAN. Bulletin of the American Meteorological Society, 2008, 89, 1889-1904.	3.3	73
115	Biological response to the 1997â€“98 and 2009â€“10 El NiÃ±o events in the equatorial Pacific Ocean. Geophysical Research Letters, 2012, 39, .	4.0	73
116	On the variability of winds, sea surface temperature, and surface layer heat content in the western equatorial Pacific. Journal of Geophysical Research, 1991, 96, 3331-3342.	3.3	72
117	Mixed Layer Temperature Balance on Intraseasonal Timescales in the Equatorial Pacific Ocean*. Journal of Climate, 2002, 15, 2632-2647.	3.2	71
118	The Interdecadal Shift of ENSO Properties in 1999/2000: A Review. Journal of Climate, 2020, 33, 4441-4462.	3.2	71
119	Indian Ocean dipole interpreted in terms of recharge oscillator theory. Climate Dynamics, 2014, 42, 1569-1586.	3.8	70
120	An assessment of buoy-derived and numerical weather prediction surface heat fluxes in the tropical Pacific. Journal of Geophysical Research, 2006, 111, .	3.3	69
121	Volume transports of the <scp>W</scp>yrtki jets and their relationship to the <scp>I</scp>ndian <scp>O</scp>cean <scp>D</scp>ipole. Journal of Geophysical Research: Oceans, 2015, 120, 5302-5317.	2.6	69
122	The annual cycle in ENSO growth rate as a cause of the spring predictability barrier. Geophysical Research Letters, 2015, 42, 5034-5041.	4.0	69
123	Autonomous seawater <i>p</i>CO₂ and pH time series from 40 surface buoys and the emergence of anthropogenic trends. Earth System Science Data, 2019, 11, 421-439.	9.9	69
124	Remotely Sensed Biological Production in the Equatorial Pacific. Science, 2001, 293, 471-474.	12.6	67
125	Surface Layer Temperature Balance in the Equatorial Pacific during the 1997â€“98 El NiÃ±o and 1998â€“99 La NiÃ±a*. Journal of Climate, 2001, 14, 3393-3407.	3.2	67
126	Natural variability and anthropogenic change in equatorial Pacific surface ocean pCO₂ and pH. Global Biogeochemical Cycles, 2014, 28, 131-145.	4.9	64

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127	Why Has the Relationship between Indian and Pacific Ocean Decadal Variability Changed in Recent Decades?. Journal of Climate, 2017, 30, 1971-1983.	3.2	64
128	Anatomy and Decadal Evolution of the Pacific Subtropicalâ€“Tropical Cells (STCs)*. Journal of Climate, 2005, 18, 3739-3758.	3.2	63
129	Ecological Impacts of the 2015/16 El NiÃ±o in the Central Equatorial Pacific. Bulletin of the American Meteorological Society, 2018, 99, S21-S26.	3.3	63
130	PIRATA: A Sustained Observing System for Tropical Atlantic Climate Research and Forecasting. Earth and Space Science, 2019, 6, 577-616.	2.6	63
131	Butterfly effect and a self-modulating El NiÃ±o response to global warming. Nature, 2020, 585, 68-73.	27.8	63
132	Surface layer variations observed in multiyear time series measurements from the western equatorial Pacific. Journal of Geophysical Research, 1994, 99, 963.	3.3	61
133	Monthly period oscillations in the Pacific North Equatorial Countercurrent. Journal of Geophysical Research, 1996, 101, 6337-6359.	3.3	61
134	Ocean Preconditioning of Cyclone Nargis in the Bay of Bengal: Interaction between Rossby Waves, Surface Fresh Waters, and Sea Surface Temperatures*. Journal of Physical Oceanography, 2011, 41, 1741-1755.	1.7	61
135	Tropical stormâ€induced nearâ€inertial internal waves during the Cirene experiment: Energy fluxes and impact on vertical mixing. Journal of Geophysical Research: Oceans, 2013, 118, 358-380.	2.6	61
136	Enhancement of Tropical Ocean Evaporation and Sensible Heat Flux by Atmospheric Mesoscale Systems. Journal of Climate, 1996, 9, 2307-2325.	3.2	60
137	Recent climatic trends in the tropical Atlantic. Climate Dynamics, 2014, 43, 3071-3089.	3.8	60
138	Using present-day observations to detect when anthropogenic change forces surface ocean carbonate chemistry outside preindustrial bounds. Biogeosciences, 2016, 13, 5065-5083.	3.3	60
139	Wind, Waves, and Fronts: Frictional Effects in a Generalized Ekman Model. Journal of Physical Oceanography, 2016, 46, 371-394.	1.7	59
140	Variability in the eastern equatorial Pacific Ocean during 1986â€“1988. Journal of Geophysical Research, 1990, 95, 13195-13208.	3.3	58
141	Seasonal salt budget of the northwestern tropical Atlantic Ocean along 38Â°W. Journal of Geophysical Research, 2004, 109, .	3.3	58
142	A Strong Atlantic Meridional Mode Event in 2009: The Role of Mixed Layer Dynamics*. Journal of Climate, 2012, 25, 363-380.	3.2	58
143	Trends in Saharan dust and tropical Atlantic climate during 1980â€“2006. Geophysical Research Letters, 2008, 35, .	4.0	57
144	Tropical Pacific upper ocean heat content variations and Indian summer monsoon rainfall. Geophysical Research Letters, 2004, 31, .	4.0	56

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145	Seasonal Mixed Layer Heat Balance of the Southwestern Tropical Indian Ocean*. Journal of Climate, 2010, 23, 947-965.	3.2	56
146	Impact of Indian Ocean Dipole and El NiÃ±o/Southern Oscillation windâ€forcing on the Wyrtki jets. Journal of Geophysical Research, 2012, 117, .	3.3	56
147	Mixed Layer Temperature Budget for the Northward Propagating Summer Monsoon Intraseasonal Oscillation (MISO) in the Central Bay of Bengal. Journal of Geophysical Research: Oceans, 2017, 122, 8841-8854.	2.6	54
148	What is the mean seasonal cycle of surface heat flux in the equatorial Pacific?. Journal of Geophysical Research, 2001, 106, 837-857.	3.3	53
149	ATLAS Self-Siphoning Rain Gauge Error Estimates*. Journal of Atmospheric and Oceanic Technology, 2001, 18, 1989-2002.	1.3	53
150	Dynamics of wind-forced intraseasonal zonal current variations in the equatorial Indian Ocean. Journal of Geophysical Research, 2011, 116, .	3.3	52
151	A Comparative Stability Analysis of Atlantic and Pacific NiÃ±o Modes*. Journal of Climate, 2013, 26, 5965-5980.	3.2	52
152	Variability of zonal currents in the eastern equatorial Indian Ocean on seasonal to interannual time scales. Journal of Geophysical Research: Oceans, 2014, 119, 7969-7986.	2.6	52
153	Seasonal cycles of surface layer salinity in the Pacific Ocean. Ocean Science, 2010, 6, 775-787.	3.4	51
154	Multidecadal variability of the North Brazil Current and its connection to the Atlantic meridional overturning circulation. Journal of Geophysical Research, 2011, 116, .	3.3	51
155	Variability in equatorial Pacific sea surface topography during the verification phase of the TOPEX/POSEIDON mission. Journal of Geophysical Research, 1994, 99, 24725.	3.3	50
156	Characteristics of the seasonal cycle of surface layer salinity in the global ocean. Ocean Science, 2012, 8, 915-929.	3.4	50
157	Variability in the South Atlantic Anticyclone and the Atlantic NiÃ±o Mode*. Journal of Climate, 2014, 27, 8135-8150.	3.2	50
158	A Sustained Ocean Observing System in the Indian Ocean for Climate Related Scientific Knowledge and Societal Needs. Frontiers in Marine Science, 2019, 6, .	2.5	49
159	The Interaction of Equatorial Kelvin Waves with Realistically Sheared Zonal Currents. Journal of Physical Oceanography, 1986, 16, 1499-1515.	1.7	48
160	Internal Waves and Turbulence in the Upper Central Equatorial Pacific: Lagrangian and Eulerian Observations. Journal of Physical Oceanography, 2002, 32, 2619-2639.	1.7	48
161	Seasonal and interannual CO2fluxes for the central and eastern equatorial Pacific Ocean as determined from fCO2-SST relationships. Journal of Geophysical Research, 2003, 108, .	3.3	48
162	Tropical instability waves at 0Â°N, 23Â°W in the Atlantic: A case study using Pilot Research Moored Array in the Tropical Atlantic (PIRATA) mooring data. Journal of Geophysical Research, 2005, 110, .	3.3	48

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163	A Road Map to IndOOS-2: Better Observations of the Rapidly Warming Indian Ocean. Bulletin of the American Meteorological Society, 2020, 101, E1891-E1913.	3.3	48
164	The Curious Case of the EL NiÃ±o That Never Happened: A Perspective from 40 Years of Progress in Climate Research and Forecasting. Bulletin of the American Meteorological Society, 2015, 96, 1647-1665.	3.3	47
165	The effect of tropical instability waves on CO2species distributions along the equator in the eastern equatorial Pacific during the 1992 ENSO event. Geophysical Research Letters, 1994, 21, 277-280.	4.0	46
166	Strong Intraseasonal Variability of Meridional Currents near 5Â°N in the Eastern Indian Ocean: Characteristics and Causes. Journal of Physical Oceanography, 2017, 47, 979-998.	1.7	46
167	Enhanced oceanic and atmospheric monitoring underway in eastern Pacific. Eos, 2002, 83, 205.	0.1	45
168	Interhemispheric SST Gradient Trends in the Indian Ocean prior to and during the Recent Global Warming Hiatusa. Journal of Climate, 2016, 29, 9077-9095.	3.2	45
169	Airâ€“Sea Heat Exchange along the Northern Sea Surface Temperature Front in the Eastern Tropical Pacific. Journal of Climate, 2002, 15, 3361-3378.	3.2	45
170	Scales of Variability in the Equatorial Pacific Inferred form Tropical Atmosphere-Ocean Buoy Array. Journal of Climate, 1996, 9, 2999-3024.	3.2	44
171	Intraseasonal variations in the surface layer heat balance of the central equatorial Indian Ocean: The importance of zonal advection and vertical mixing. Geophysical Research Letters, 2013, 40, 2737-2741.	4.0	44
172	Symmetry of the Atlantic NiÃ±o mode. Geophysical Research Letters, 2017, 44, 965-973.	4.0	44
173	On the variety of coastal El NiÃ±o events. Climate Dynamics, 2019, 52, 7537-7552.	3.8	44
174	Simulation of ENSO Related Surface Wind Anomalies with an Atmospheric GCM Forced by Observed SST. Journal of Climate, 1990, 3, 509-521.	3.2	43
175	Intraseasonal Variations in the Upper Equatorial Pacific Ocean prior to and during the 1997â€“98 El NiÃ±o. Journal of Physical Oceanography, 2002, 32, 1133-1149.	1.7	43
176	Abrupt equatorial waveâ€induced cooling of the Atlantic cold tongue in 2009. Geophysical Research Letters, 2010, 37, .	4.0	43
177	On the Dynamics of Equatorial Subsurface Countercurrents. Journal of Physical Oceanography, 1984, 14, 1216-1225.	1.7	42
178	A meeting place of great ocean currents: shipboard observations of a convergent front at 2Â°N in the Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 1997, 44, 1827-1849.	1.4	42
179	The dynamics of zonal current variations in the central equatorial Indian Ocean. Geophysical Research Letters, 2008, 35, .	4.0	42
180	Changes in Tropical Pacific Thermocline Depth and Their Relationship to ENSO after 1999. Journal of Climate, 2014, 27, 7230-7249.	3.2	42

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181	Generalized Inversion of Tropical Atmosphereâ€“Ocean Data and a Coupled Model of the Tropical Pacific. Journal of Climate, 1998, 11, 1768-1792.	3.2	41
182	The role of external forcing and internal variability in regulating global mean surface temperatures on decadal timescales. Environmental Research Letters, 2017, 12, 034011.	5.2	41
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