

# Meghan Cronin

## List of Publications by Year in descending order

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98  
papers

4,867  
citations

94433

37  
h-index

98798

67  
g-index

103  
all docs

103  
docs citations

103  
times ranked

5822  
citing authors

#	ARTICLE	IF	CITATIONS
1	Causes and impacts of the 2014 warm anomaly in the NE Pacific. <i>Geophysical Research Letters</i> , 2015, 42, 3414-3420.	4.0	876
2	On the role of the Agulhas system in ocean circulation and climate. <i>Nature</i> , 2011, 472, 429-436.	27.8	470
3	Western Boundary Currents and Frontal Air-Sea Interaction: Gulf Stream and Kuroshio Extension. <i>Journal of Climate</i> , 2010, 23, 5644-5667.	3.2	251
4	High-Latitude Ocean and Sea Ice Surface Fluxes: Challenges for Climate Research. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 403-423.	3.3	137
5	The upper ocean heat balance in the western equatorial Pacific warm pool during September-December 1992. <i>Journal of Geophysical Research</i> , 1997, 102, 8533-8553.	3.3	134
6	Annual Cycle and Depth Penetration of Wind-Generated Near-Inertial Internal Waves at Ocean Station Papa in the Northeast Pacific. <i>Journal of Physical Oceanography</i> , 2012, 42, 889-909.	1.7	117
7	Air-Sea Fluxes With a Focus on Heat and Momentum. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	111
8	TropFlux wind stresses over the tropical oceans: evaluation and comparison with other products. <i>Climate Dynamics</i> , 2013, 40, 2049-2071.	3.8	102
9	Quantifying upper ocean turbulence driven by surface waves. <i>Geophysical Research Letters</i> , 2014, 41, 102-107.	4.0	98
10	Satellite and In Situ Observations for Advancing Global Earth Surface Modelling: A Review. <i>Remote Sensing</i> , 2018, 10, 2038.	4.0	95
11	Near-Surface Shear Flow in the Tropical Pacific Cold Tongue Front*. <i>Journal of Physical Oceanography</i> , 2009, 39, 1200-1215.	1.7	85
12	Barrier layer formation during westerly wind bursts. <i>Journal of Geophysical Research</i> , 2002, 107, SRF 21-1-SRF 21-12.	3.3	83
13	Estimating diffusivity from the mixed layer heat and salt balances in the North Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 7346-7362.	2.6	82
14	Upper ocean salinity balance in the western equatorial Pacific. <i>Journal of Geophysical Research</i> , 1998, 103, 27567-27587.	3.3	81
15	Horizontal and Vertical Structure of Easterly Waves in the Pacific ITCZ. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 1266-1284.	1.7	81
16	Eddy-Mean Flow Interaction in the Gulf Stream at 68°W. Part I: Eddy Energetics. <i>Journal of Physical Oceanography</i> , 1996, 26, 2107-2131.	1.7	78
17	An assessment of buoy-derived and numerical weather prediction surface heat fluxes in the tropical Pacific. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	69
18	Autonomous seawater temperature, salinity, and pH time series from 40 surface buoys and the emergence of anthropogenic trends. <i>Earth System Science Data</i> , 2019, 11, 421-439.	9.9	69

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19	An assessment of surface heat fluxes from J��FURO2 at the KEO and JKEO sites. Journal of Geophysical Research, 2010, 115, .	3.3	61
20	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
21	Tropical Pacific Observing System. Frontiers in Marine Science, 2019, 6, .	2.5	56
22	Waves and the equilibrium range at Ocean Weather Station P. Journal of Geophysical Research: Oceans, 2013, 118, 5951-5962.	2.6	55
23	Variability and trends in surface seawater $pCO_2$ and $CO_2$ flux in the Pacific Ocean. Geophysical Research Letters, 2017, 44, 5627-5636.	4.0	55
24	Formation and erosion of the seasonal thermocline in the Kuroshio Extension Recirculation Gyre. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 85, 62-74.	1.4	54
25	Surface heat fluxes from the NCEP/NCAR and NCEP/DOE reanalyses at the Kuroshio Extension Observatory buoy site. Journal of Geophysical Research, 2008, 113, .	3.3	50
26	Surface Cloud Forcing in the East Pacific Stratus Deck/Cold Tongue/ITCZ Complex*. Journal of Climate, 2006, 19, 392-409.	3.2	48
27	Observed horizontal temperature advection by tropical instability waves. Geophysical Research Letters, 2007, 34, .	4.0	48
28	Surface Heat Flux Variations across the Kuroshio Extension as Observed by Surface Flux Buoys. Journal of Climate, 2010, 23, 5206-5221.	3.2	48
29	Surface Mooring Network in the Kuroshio Extension. IEEE Systems Journal, 2008, 2, 424-430.	4.6	47
30	Enhanced oceanic and atmospheric monitoring underway in eastern Pacific. Eos, 2002, 83, 205.	0.1	45
31	Seasonal and interannual modulation of mixed layer variability at 0��, 110��W. Deep-Sea Research Part I: Oceanographic Research Papers, 2002, 49, 1-17.	1.4	43
32	Evaluation of a hybrid satellite- and NWP-based turbulent heat flux product using Tropical Atmosphere-Ocean (TAO) buoys. Journal of Geophysical Research, 2005, 110, .	3.3	43
33	Public��Private Partnerships to Advance Regional Ocean-Observing Capabilities: A Saildrone and NOAA-PMEL Case Study and Future Considerations to Expand to Global Scale Observing. Frontiers in Marine Science, 2019, 6, .	2.5	43
34	Regional Weather Patterns during Anomalous Air��Sea Fluxes at the Kuroshio Extension Observatory (KEO)*. Journal of Climate, 2008, 21, 1680-1697.	3.2	41
35	Net community production and calcification from 7��years of NOAA Station Papa Mooring measurements. Global Biogeochemical Cycles, 2016, 30, 250-267.	4.9	41
36	Program Studies the Kuroshio Extension. Eos, 2008, 89, 161-162.	0.1	40

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37	Global Perspectives on Observing Ocean Boundary Current Systems. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	39
38	Comparing Air-Sea Flux Measurements from a New Unmanned Surface Vehicle and Proven Platforms During the SPURS-2 Field Campaign. <i>Oceanography</i> , 2019, 32, 122-133.	1.0	39
39	Barometric Pressure Variations Associated with Eastern Pacific Tropical Instability Waves*. <i>Journal of Climate</i> , 2003, 16, 3050-3057.	3.2	38
40	Impact of cyclonic eddies and typhoons on biogeochemistry in the oligotrophic ocean based on biogeochemical/physical/meteorological time-series at station KEO. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	3.0	35
41	Diurnal cycle of rainfall and surface salinity in the Western Pacific Warm Pool. <i>Geophysical Research Letters</i> , 1999, 26, 3465-3468.	4.0	34
42	Upper ocean response to Typhoon Choi-Wan as measured by the Kuroshio Extension Observatory mooring. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	34
43	Meridional Structure of the Seasonally Varying Mixed Layer Temperature Balance in the Eastern Tropical Pacific. <i>Journal of Climate</i> , 2008, 21, 3240-3260.	3.2	33
44	Eddy-Mean Flow Interaction in the Gulf Stream at 68°W. Part II: Eddy Forcing on the Time-Mean Flow. <i>Journal of Physical Oceanography</i> , 1996, 26, 2132-2151.	1.7	32
45	Mixed-layer carbon cycling at the Kuroshio Extension Observatory. <i>Global Biogeochemical Cycles</i> , 2017, 31, 272-288.	4.9	31
46	Variations of the North Pacific Subtropical Mode Water from Direct Observations. <i>Journal of Climate</i> , 2014, 27, 2842-2860.	3.2	30
47	EPIC 95°W Observations of the Eastern Pacific Atmospheric Boundary Layer from the Cold Tongue to the ITCZ. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 426-442.	1.7	27
48	Latent Heat Flux Sensitivity to Sea Surface Temperature: Regional Perspectives. <i>Journal of Climate</i> , 2017, 30, 129-143.	3.2	27
49	On the role of sea-state in bubble-mediated air-sea gas flux during a winter storm. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 2671-2685.	2.6	25
50	Wind-Forced Reversing Jets in the Western Equatorial Pacific*. <i>Journal of Physical Oceanography</i> , 2000, 30, 657-676.	1.7	24
51	Observations of Cloud, Radiation, and Surface Forcing in the Equatorial Eastern Pacific. <i>Journal of Climate</i> , 2008, 21, 655-673.	3.2	24
52	Air-Sea Gas Transfer: Determining Bubble Fluxes With In Situ $N_2$ Observations. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 2716-2727.	2.6	23
53	Quantifying the flux of $CaCO_3$ and organic carbon from the surface ocean using in situ measurements of $O_2$ , $N_2$ , $pCO_2$ , and pH. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	4.9	22
54	Role of mixed layer depth in surface frontogenesis: The Agulhas Return Current front. <i>Geophysical Research Letters</i> , 2014, 41, 2447-2453.	4.0	22

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55	Radiative fluxes at high latitudes. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	20
56	Tropical Cells and a Secondary Circulation near the Northern Front of the Equatorial Pacific Cold Tongue*. <i>Journal of Physical Oceanography</i> , 2010, 40, 2091-2106.	1.7	18
57	Atmospheric pressure response to mesoscale sea surface temperature variations in the Kuroshio Extension region: In situ evidence. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 8015-8031.	3.3	18
58	Seaglider surveys at Ocean Station Papa: Circulation and water mass properties in a meander of the North Pacific Current. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 6816-6846.	2.6	18
59	Monitoring Ocean - Atmosphere Interactions in Western Boundary Current Extensions. , 2010, , .		18
60	A metric for surface heat flux effect on horizontal sea surface temperature gradients. <i>Climate Dynamics</i> , 2018, 51, 547-561.	3.8	17
61	In Situ Sustained Eulerian Observatories. , 2010, , .		17
62	Prevalence of strong bottom currents in the greater Agulhas system. <i>Geophysical Research Letters</i> , 2013, 40, 1772-1776.	4.0	16
63	Numerical simulations of oceanic $CO_2$ variations and interactions between Typhoon Choiwan (0914) and the ocean. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 2667-2684.	2.6	15
64	Origin of near-surface high-salinity water observed in the Kuroshio Extension region. <i>Journal of Oceanography</i> , 2014, 70, 389-403.	1.7	15
65	Atmospheric Sensitivity to SST near the Kuroshio Extension during the Extratropical Transition of Typhoon Tokage*. <i>Monthly Weather Review</i> , 2010, 138, 2644-2663.	1.4	14
66	Preconditioning of the wintertime mixed layer at the Kuroshio Extension Observatory. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	14
67	Surface frontogenesis by surface heat fluxes in the upstream Kuroshio Extension region. <i>Scientific Reports</i> , 2017, 7, 10258.	3.3	14
68	Resonant Forcing of Mixed Layer Inertial Motions by Atmospheric Easterly Waves in the Northeast Tropical Pacific*. <i>Journal of Physical Oceanography</i> , 2010, 40, 401-416.	1.7	13
69	Assessing surface heat fluxes in atmospheric reanalyses with a decade of data from the NOAA Kuroshio Extension Observatory. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 6874-6890.	2.6	13
70	Comparisons of aircraft, ship, and buoy meteorological measurements from TOGA COARE. <i>Journal of Geophysical Research</i> , 1999, 104, 30853-30883.	3.3	12
71	Steady State Ocean Response to Wind Forcing in Extratropical Frontal Regions. <i>Scientific Reports</i> , 2016, 6, 28842.	3.3	12
72	Measuring the Global Ocean Surface Circulation with Satellite and In Situ Observations. , 2010, , .		12

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73	Seaglider Surveys at Ocean Station Papa: Oxygen Kinematics and Upper-Ocean Metabolism. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 6408-6427.	2.6	11
74	Instability-Driven Benthic Storms below the Separated Gulf Stream and the North Atlantic Current in a High-Resolution Ocean Model. <i>Journal of Physical Oceanography</i> , 2018, 48, 2283-2303.	1.7	11
75	Evolving the Physical Global Ocean Observing System for Research and Application Services Through International Coordination. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	11
76	Frontogenesis in the Agulhas Return Current Region Simulated by a High-Resolution CGCM. <i>Journal of Physical Oceanography</i> , 2017, 47, 2691-2710.	1.7	10
77	The Roles of Intraseasonal Kelvin Waves and Tropical Instability Waves in SST Variability along the Equatorial Pacific in an Isopycnal Ocean Model. <i>Journal of Climate</i> , 2009, 22, 3470-3487.	3.2	8
78	Validation of AMSR2 Sea Surface Wind and Temperature over the Kuroshio Extension Region. <i>Scientific Online Letters on the Atmosphere</i> , 2015, 11, 43-47.	1.4	8
79	Diurnal Cycles of Near-Surface Currents Across the Tropical Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016982.	2.6	8
80	Prediction of the Gulf Stream path from upstream parameters. <i>Journal of Geophysical Research</i> , 1992, 97, 7257-7269.	3.3	6
81	Sub-seasonal variance of surface meteorological parameters in buoy observations and reanalyses. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	6
82	Seaglider surveys at Ocean Station Papa: Diagnosis of upper-ocean heat and salt balances using least squares with inequality constraints. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 5140-5168.	2.6	6
83	Frontolysis by surface heat flux in the eastern Japan Sea: importance of mixed layer depth. <i>Journal of Oceanography</i> , 2019, 75, 283-297.	1.7	6
84	Surface Energy, CO2 Fluxes and Sea Ice. , 2010, , .		6
85	Uncertainty in Net Surface Heat Flux due to Differences in Commonly Used Albedo Products. <i>Journal of Climate</i> , 2020, 33, 303-315.	3.2	5
86	Cold Pools Observed by Uncrewed Surface Vehicles in the Central and Eastern Tropical Pacific. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093373.	4.0	5
87	Trends in the Agulhas Return Current. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2021, 175, 103573.	1.4	5
88	CLIMATE RESEARCH: Best Practices For Process Studies. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 917-918.	3.3	4
89	Skin Temperature Correction for Calculations of Air-Sea Oxygen Flux and Annual Net Community Production. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	4
90	Asymmetric air-sea heat flux response and ocean impact to synoptic-scale atmospheric disturbances observed at JKEO and KEO buoys. <i>Scientific Reports</i> , 2021, 11, 469.	3.3	3

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91	The Barrier Layer Effect on the Heat and Freshwater Balance from Moored Observations in the Eastern Pacific Fresh Pool. <i>Journal of Physical Oceanography</i> , 2022, 52, 1705-1730.	1.7	3
92	PMEL Contributions to the OceanSITES Program. , 2006, , .		2
93	Upper Ocean Vertical Structure. , 2019, , 97-104.		2
94	Challenges of Measuring Abyssal Temperature and Salinity at the Kuroshio Extension Observatory. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 1999-2014.	1.3	2
95	Super Sites for Advancing Understanding of the Oceanic and Atmospheric Boundary Layers. <i>Marine Technology Society Journal</i> , 2021, 55, 144-145.	0.4	1
96	Roles of TAO/TRITON and Argo in tropical Pacific observing system: An OSSE study for multiple time scale variability. <i>Journal of Climate</i> , 2021, , 1-56.	3.2	1
97	Appreciation of 2017 GRL Peer Reviewers. <i>Geophysical Research Letters</i> , 2018, 45, 4494-4528.	4.0	0
98	Thank You to Our 2018 Peer Reviewers. <i>Geophysical Research Letters</i> , 2019, 46, 12608-12636.	4.0	0