## William Dewar

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Submesoscale Instability and Generation of Mesoscale Anticyclones near a Separation of the California Undercurrent. Journal of Physical Oceanography, 2015, 45, 613-629.	1.7	179
2	Sea Level Expression of Intrinsic and Forced Ocean Variabilities at Interannual Time Scales. Journal of Climate, 2011, 24, 5652-5670.	3.2	134
3	Some Effects of the Wind on Rings. Journal of Physical Oceanography, 1987, 17, 1653-1667.	1.7	111
4	Does the marine biosphere mix the ocean?. Journal of Marine Research, 2006, 64, 541-561.	0.3	111
5	On "Too Fast―Baroclinic Planetary Waves in the General Circulation. Journal of Physical Oceanography, 1998, 28, 1739-1758.	1.7	81
6	An analytical theory of distributed axisymmetric barotropic vortices on the β-plane. Journal of Fluid Mechanics, 1994, 269, 301-321.	3.4	73
7	Vertical Mixing and Cabbeling in Layered Models. Journal of Physical Oceanography, 1998, 28, 1458-1480.	1.7	70
8	Topography and barotropic transport control by bottom friction. Journal of Marine Research, 1998, 56, 295-328.	0.3	67
9	On the Stability of Oceanic Rings. Journal of Physical Oceanography, 1995, 25, 1467-1487.	1.7	59
10	The Effects of Mesoscale Ocean–Atmosphere Coupling on the Large-Scale Ocean Circulation. Journal of Climate, 2009, 22, 4066-4082.	3.2	55
11	Dynamical Response of the Oceanic Eddy Field to the North Atlantic Oscillation: A Model–Data Comparison. Journal of Physical Oceanography, 2004, 34, 2615-2629.	1.7	52
12	Meddy–Seamount Interactions: Implications for the Mediterranean Salt Tongue. Journal of Physical Oceanography, 2003, 33, 2446-2461.	1.7	50
13	A Quasi-Geostrophic Coupled Model (Q-GCM). Monthly Weather Review, 2003, 131, 2261-2278.	1.4	48
14	Mechanisms of Decadal Variability of the Wind-Driven Ocean Circulation. Journal of Physical Oceanography, 2005, 35, 512-531.	1.7	48
15	Topographic inviscid dissipation of balanced flow. Ocean Modelling, 2010, 32, 1-13.	2.4	47
16	Centrifugal Instability and Mixing in the California Undercurrent. Journal of Physical Oceanography, 2015, 45, 1224-1241.	1.7	46
17	Seasonal Prediction of Sea Surface Temperature Anomalies Using a Suite of 13 Coupled Atmosphere–Ocean Models. Journal of Climate, 2006, 19, 6069-6088.	3.2	43
18	Geostrophic Circulation in the Tropical North Pacific Ocean Based on Argo Profiles. Journal of Physical Oceanography, 2014, 44, 558-575.	1.7	41

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19	Baroclinic Eddy Interaction with Isolated Topography. Journal of Physical Oceanography, 2002, 32, 2789-2805.	1.7	40
20	Influence of Topography on the Propagation of Isolated Eddies. Journal of Physical Oceanography, 2002, 32, 2848-2869.	1.7	36
21	Numerical Investigations of Seasonal and Interannual Variability of North Pacific Subtropical Mode Water and Its Implications for Pacific Climate Variability. Journal of Climate, 2011, 24, 2648-2665.	3.2	34
22	Numerical simulations of turbulent thermal, bubble and hybrid plumes. Ocean Modelling, 2015, 90, 16-28.	2.4	33
23	Subsurface Energetics of the Gulf Stream near the Charleston Bump. Journal of Physical Oceanography, 1985, 15, 1771-1789.	1.7	31
24	Gulf Stream Dynamics. Pad II: Eddy Energetics at 73°W. Journal of Physical Oceanography, 1989, 19, 1574-1587.	1.7	29
25	The Dynamics of Barotropically Dominated Rings. Journal of Physical Oceanography, 1994, 24, 5-29.	1.7	29
26	Nonlinear Midlatitude Ocean Adjustment. Journal of Physical Oceanography, 2003, 33, 1057-1082.	1.7	27
27	Eighteen Degree Water formation within the Gulf Stream during CLIMODE. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 91, 1-10.	1.4	26
28	Primitive Equation Instability of Wide Oceanic Rings. Part I: Linear Theory. Journal of Physical Oceanography, 1997, 27, 941-962.	1.7	25
29	Calculation of Pressure in Ocean Simulations. Journal of Physical Oceanography, 1998, 28, 577-588.	1.7	25
30	On Ocean Dynamics in Midlatitude Climate. Journal of Climate, 2001, 14, 4380-4397.	3.2	25
31	On the Cylinder Collapse Problem, Mixing, and the Merger of Isolated Eddies. Journal of Physical Oceanography, 1990, 20, 1563-1575.	1.7	24
32	Intergyre Communication in a Three-Layer Model. Journal of Physical Oceanography, 1993, 23, 855-878.	1.7	24
33	Primitive-Equation Instability of Wide Oceanic Rings. Part II: Numerical Studies of Ring Stability. Journal of Physical Oceanography, 1999, 29, 1744-1758.	1.7	24
34	The Ventilated Pool: A Model of Subtropical Mode Water. Journal of Physical Oceanography, 2005, 35, 137-150.	1.7	24
35	Scattering of gravity waves by potential vorticity in a shallow-water fluid. Journal of Fluid Mechanics, 2010, 663, 478-506.	3.4	24
36	Dynamics of multiphase turbulent plumes with hybrid buoyancy sources in stratified environments. Physics of Fluids, 2016, 28, .	4.0	24

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37	Effects of rotation on turbulent buoyant plumes in stratified environments. Journal of Geophysical Research: Oceans, 2016, 121, 5397-5417.	2.6	24
38	Particle trajectories and simple models of transport in coherent vortices. Dynamics of Atmospheres and Oceans, 1985, 9, 215-252.	1.8	23
39	CheapAML: A Simple, Atmospheric Boundary Layer Model for Use in Ocean-Only Model Calculations. Monthly Weather Review, 2013, 141, 809-821.	1.4	23
40	The Propagation of Submesoscale Coherent Vortices. Journal of Physical Oceanography, 1995, 25, 1745-1770.	1.7	22
41	Dynamical Origin of Low-Frequency Variability in a Highly Nonlinear Midlatitude Coupled Model. Journal of Climate, 2006, 19, 6391-6408.	3.2	22
42	Kelvin wave hydraulic control induced by interactions between vortices and topography. Journal of Fluid Mechanics, 2011, 687, 194-208.	3.4	22
43	A Review on Multiphase Underwater Jets and Plumes: Droplets, Hydrodynamics, and Chemistry. Reviews of Geophysics, 2020, 58, e2020RG000703.	23.0	22
44	Mixed layers in gulf stream rings. Dynamics of Atmospheres and Oceans, 1986, 10, 1-29.	1.8	21
45	Arrested fronts. Journal of Marine Research, 1991, 49, 21-52.	0.3	21
46	Decadal Variability of the Midlatitude Climate System Driven by the Ocean Circulation. Journal of Climate, 2006, 19, 1149-1166.	3.2	21
47	North Atlantic Barotropic Vorticity Balances in Numerical Models. Journal of Physical Oceanography, 2016, 46, 289-303.	1.7	21
48	On the Potential Vorticity Structure of Weakly Ventialted Isopycnals: A Theory of Subtropical Mode Water Maintenance. Journal of Physical Oceanography, 1986, 16, 1204-1216.	1.7	20
49	Do fast gravity waves interact with geostrophic motions?. Deep-Sea Research Part I: Oceanographic Research Papers, 1995, 42, 1063-1081.	1.4	20
50	The Energetics of Centrifugal Instability. Journal of Physical Oceanography, 2015, 45, 1554-1573.	1.7	20
51	Mode waters and subduction rates in a high-resolution South Atlantic simulation. Journal of Marine Research, 1999, 57, 213-244.	0.3	19
52	Planetary Shock Waves. Journal of Physical Oceanography, 1987, 17, 470-482.	1.7	18
53	Spontaneous Shocks. Journal of Physical Oceanography, 1992, 22, 505-522.	1.7	17
54	Almost symmetric solitary eddies in a two-layer ocean. Journal of Fluid Mechanics, 1992, 238, 633-656.	3.4	17

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55	Submesoscale generation by boundaries. Journal of Marine Research, 2011, 69, 501-522.	0.3	17
56	Freshening of Subsurface Waters in the Northwest Pacific Subtropical Gyre: Observations and Dynamics. Journal of Physical Oceanography, 2013, 43, 2733-2751.	1.7	17
57	Diagnosing Crossâ€5cale Kinetic Energy Exchanges From Two Submesoscale Permitting Ocean Models. Journal of Advances in Modeling Earth Systems, 2021, 13, e2019MS001923.	3.8	17
58	A nonlinear, time-dependent thermocline theory. Journal of Marine Research, 1989, 47, 1-31.	0.3	16
59	Ventilating Warm Rings: Theory and Energetics. Journal of Physical Oceanography, 1987, 17, 2219-2231.	1.7	15
60	On the Propagation of Baroclinic Waves in the General Circulation. Journal of Physical Oceanography, 2000, 30, 2637-2649.	1.7	15
61	Local Sensitivities of the Gulf Stream Separation. Journal of Physical Oceanography, 2017, 47, 353-373.	1.7	14
62	Haline Circulation: Bifurcation and Chaos. Journal of Physical Oceanography, 1996, 26, 2093-2106.	1.7	13
63	Spatiotemporal Patterns of Chaos in the Atlantic Overturning Circulation. Geophysical Research Letters, 2019, 46, 7509-7517.	4.0	13
64	The nonlinear spin-up of a stratified ocean. Geophysical and Astrophysical Fluid Dynamics, 1984, 30, 169-197.	1.2	12
65	Convection in Small Basins. Journal of Physical Oceanography, 2002, 32, 2766-2788.	1.7	12
66	Fluid flow in loops driven by freshwater and heat fluxes. Journal of Fluid Mechanics, 1995, 297, 153-191.	3.4	11
67	Volume and Potential Vorticity Budgets of Eighteen Degree Water. Journal of Physical Oceanography, 2013, 43, 2309-2321.	1.7	11
68	Ventilating Beta Plane Leases. Journal of Physical Oceanography, 1988, 18, 1193-1201.	1.7	10
69	Adjustment of the Ventilated Thermocline*. Journal of Physical Oceanography, 2001, 31, 1676-1697.	1.7	10
70	Oceanic time variability near a large scale topographic circulation. Ocean Modelling, 2009, 29, 176-188.	2.4	10
71	Numerical simulations of rotating bubble plumes in stratified environments. Journal of Geophysical Research: Oceans, 2017, 122, 6795-6813.	2.6	10
72	Dynamics of Mesoscale Eddies Interacting With a Western Boundary Current Flowing by a Gap. Journal of Geophysical Research: Oceans, 2019, 124, 4117-4132.	2.6	10

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73	Towards integrated modeling of the long-term impacts of oil spills. Marine Policy, 2021, 131, 104554.	3.2	10
74	Ventilating Warm Rings: Structure and Model Evaluation. Journal of Physical Oceanography, 1988, 18, 552-564.	1.7	9
75	Gulf Stream Dynamics: Part I: Mean Flow Dynamics at 73°W. Journal of Physical Oceanography, 1989, 19, 1558-1573.	1.7	9
76	Decadal Variability of the Meridional Geostrophic Transport in the Upper Tropical North Pacific Ocean. Journal of Climate, 2018, 31, 5891-5910.	3.2	9
77	Potential Vorticity Budgets in the North Atlantic Ocean. Journal of Physical Oceanography, 2014, 44, 164-178.	1.7	8
78	Locally and Remotely Forced Subtropical AMOC Variability: A Matter of Time Scales. Journal of Climate, 2020, 33, 5155-5172.	3.2	8
79	Physical Transport Processes that Affect the Distribution of Oil in the Gulf of Mexico: Observations and Modeling. Oceanography, 2021, 34, 58-75.	1.0	8
80	On Windâ€Ðriven Energetics of Subtropical Gyres. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002329.	3.8	8
81	A fishy mix. Nature, 2009, 460, 581-582.	27.8	6
82	An estimate of the climatology and variability of Eighteen Degree Water potential vorticity forcing. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 91, 84-95.	1.4	6
83	Simple Models of Stratification. Journal of Physical Oceanography, 1991, 21, 1762-1779.	1.7	5
84	Variability on steep, confined topography. Deep-Sea Research Part II: Topical Studies in Oceanography, 2004, 51, 2973-2993.	1.4	5
85	North Atlantic climate variability in coupled models and data. Nonlinear Processes in Geophysics, 2008, 15, 13-24.	1.3	5
86	First-Order Scaling Law for Potential Vorticity Extraction due to Wind. Journal of Physical Oceanography, 2012, 42, 1303-1312.	1.7	5
87	Semicompressible Ocean Dynamics. Journal of Physical Oceanography, 2015, 45, 149-156.	1.7	5
88	Circumpolar Variations in the Chaotic Nature of Southern Ocean Eddy Dynamics. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	5
89	Semicompressible Ocean Thermodynamics and Boussinesq Energy Conservation. Fluids, 2016, 1, 9.	1.7	4
90	Fast Warming of the Surface Ocean Under a Climatological Scenario. Geophysical Research Letters, 2019, 46, 3871-3879.	4.0	4

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91	Planetons: An example of large amplitude solitary waves. Geophysical and Astrophysical Fluid Dynamics, 1990, 51, 53-85.	1.2	3
92	The Drift of Midocean Jets. Journal of Physical Oceanography, 1993, 23, 2313-2325.	1.7	3
93	Research Overview of the Consortium for Advanced Research on Transport of Hydrocarbon in the Environment (CARTHE). International Oil Spill Conference Proceedings, 2014, 2014, 544-560.	0.1	3
94	An Ensembleâ€Based Eddy and Spectral Analysis, With Application to the Gulf Stream. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	3
95	Diagnosing the Thicknessâ€Weighted Averaged Eddyâ€Mean Flow Interaction From an Eddying North Atlantic Ensemble: The Eliassenâ€Palm Flux. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	3
96	The Numerical Solution of the One-Dimensional Advection–Diffusion Equation in Layered Coordinates. Monthly Weather Review, 2000, 128, 2575-2587.	1.4	2
97	Density Coordinate Mixed Layer Models. Monthly Weather Review, 2001, 129, 237-253.	1.4	2
98	Dissipation processes in the Tongue of the Ocean. Journal of Geophysical Research: Oceans, 2016, 121, 3159-3170.	2.6	2
99	On Energy Cascades in General Flows: A Lagrangian Application. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002090.	3.8	2
100	Connected Thermal and Transport Anomalies in the General Circulation. Journal of Physical Oceanography, 1990, 20, 534-550.	1.7	1
101	Inertial Embedded Fronts. Journal of Physical Oceanography, 1994, 24, 79-90.	1.7	1
102	Space-time structures of earthquakes. Meteorology and Atmospheric Physics, 2009, 105, 69-83.	2.0	1
103	On Energy and Turbulent Mixing in the Thermocline. Journal of Advances in Modeling Earth Systems, 2019, 11, 578-596.	3.8	1
104	Ocean Energy, Fluxes and an Anti-Anti-Turbulence Conjecture. Ocean and Coastal Research, 2022, 70, .	0.6	1
105	The Evolution of Cooling Rings. Elsevier Oceanography Series, 1989, 50, 75-93.	0.1	0
106	On mid-ocean fronts in multi-layer models. Geophysical and Astrophysical Fluid Dynamics, 1994, 74, 1-22.	1.2	0
107	Multiple Equilibria and Transitions in a Coupled Ocean–Atmosphere Box Model. Journal of Physical Oceanography, 1998, 28, 389-397	1.7	0
108	Direct Measurements of Turbulence in the Upper Western Pacific North Equatorial Current over a 25-h Period. Sensors, 2022, 22, 1167.	3.8	0