

David P Stevens

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95 papers	3,579 citations	36 h-index	57 g-index
119 ext. papers	3,881 ext. citations	5.4 avg, IF	5.27 L-index

#	Paper	IF	Citations
95	North Atlantic Oscillation response to the Madden-Julian Oscillation in a coupled climate model. <i>Weather</i> , 2022 , 77, 201-205	0.9	0
94	Winter seal-based observations reveal glacial meltwater surfacing in the southeastern Amundsen Sea. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	1
93	Marine iodine emissions in a changing world.. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021 , 477, 20200824	2.4	8
92	FORTE 2.0: a fast, parallel and flexible coupled climate model. <i>Geoscientific Model Development</i> , 2021 , 14, 275-293	6.3	0
91	Oxidation of iodide to iodate by cultures of marine ammonia-oxidising bacteria. <i>Marine Chemistry</i> , 2021 , 234, 104000	3.7	0
90	Climate Response to Increasing Antarctic Iceberg and Ice Shelf Melt. <i>Journal of Climate</i> , 2020 , 33, 8917-8938	4.4	7
89	Interactions between Increasing CO2 and Antarctic Melt Rates. <i>Journal of Climate</i> , 2020 , 33, 8939-8956	4.4	
88	A Global Model for Iodine Speciation in the Upper Ocean. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2019GB006467	3.9	5
87	Surface Inorganic Iodine Speciation in the Indian and Southern Oceans From 12°N to 70°S. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	4
86	Topographic Control of Southern Ocean Gyres and the Antarctic Circumpolar Current: A Barotropic Perspective. <i>Journal of Physical Oceanography</i> , 2019 , 49, 3221-3244	2.4	7
85	The Impact of Overturning and Horizontal Circulation in Pine Island Trough on Ice Shelf Melt in the Eastern Amundsen Sea. <i>Journal of Physical Oceanography</i> , 2019 , 49, 63-83	2.4	16
84	Decadal prediction of the North Atlantic subpolar gyre in the HiGEM high-resolution climate model. <i>Climate Dynamics</i> , 2018 , 50, 921-937	4.2	21
83	Interconnectivity Between Volume Transports Through Arctic Straits. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 8714-8729	3.3	7
82	Variation in the Distribution and Properties of Circumpolar Deep Water in the Eastern Amundsen Sea, on Seasonal Timescales, Using Seal-Borne Tags. <i>Geophysical Research Letters</i> , 2018 , 45, 4982-4990	4.9	22
81	Decadal predictions with the HiGEM high resolution global coupled climate model: description and basic evaluation. <i>Climate Dynamics</i> , 2017 , 48, 297-311	4.2	12
80	Mechanisms driving variability in the ocean forcing of Pine Island Glacier. <i>Nature Communications</i> , 2017 , 8, 14507	17.4	54
79	The influence of diabatic heating in the South Pacific Convergence Zone on Rossby wave propagation and the mean flow. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016 , 142, 901-910	6.4	8

78	Why the South Pacific Convergence Zone is diagonal. <i>Climate Dynamics</i> , 2016 , 46, 1683-1698	4.2	26
77	Between the Devil and the Deep Blue Sea: The Role of the Amundsen Sea Continental Shelf in Exchanges Between Ocean and Ice Shelves 2016 , 29, 118-129		27
76	Importance of ocean salinity for climate and habitability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 4278-83	11.5	31
75	Propagation of the Madden-Julian Oscillation and scale interaction with the diurnal cycle in a high-resolution GCM. <i>Climate Dynamics</i> , 2015 , 45, 2901-2918	4.2	38
74	Changes in Global Ocean Bottom Properties and Volume Transports in CMIP5 Models under Climate Change Scenarios*. <i>Journal of Climate</i> , 2015 , 28, 2917-2944	4.4	49
73	Increasing vertical mixing to reduce Southern Ocean deep convection in NEMO 2015 ,		3
72	A dynamical framework for the origin of the diagonal South Pacific and South Atlantic Convergence Zones. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 1997-2010	6.4	44
71	Increasing vertical mixing to reduce Southern Ocean deep convection in NEMO3.4. <i>Geoscientific Model Development</i> , 2015 , 8, 3119-3130	6.3	22
70	The importance of planetary rotation period for ocean heat transport. <i>Astrobiology</i> , 2014 , 14, 645-50	3.7	42
69	Spatial and Temporal Scales of Sverdrup Balance*. <i>Journal of Physical Oceanography</i> , 2014 , 44, 2644-2660	4.4	29
68	Ocean processes at the Antarctic continental slope. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014 , 372, 20130047	3	31
67	The effects of different sudden stratospheric warming types on the ocean. <i>Geophysical Research Letters</i> , 2014 , 41, 7739-7745	4.9	27
66	Propagation of the Madden-Julian Oscillation through the Maritime Continent and scale interaction with the diurnal cycle of precipitation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014 , 140, 814-825	6.4	166
65	Importance of oceanic resolution and mean state on the extra-tropical response to El Niño in a matrix of coupled models. <i>Climate Dynamics</i> , 2013 , 41, 1439-1452	4.2	16
64	Southern Ocean bottom water characteristics in CMIP5 models. <i>Geophysical Research Letters</i> , 2013 , 40, 1409-1414	4.9	140
63	Nonlinear Climate Responses to Changes in Antarctic Intermediate Water. <i>Journal of Climate</i> , 2013 , 26, 9175-9193	4.4	1
62	Direct observations of the Antarctic circumpolar current transport on the northern flank of the Kerguelen Plateau. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 1333-1348	3.3	8
61	Upper ocean manifestations of a reducing meridional overturning circulation. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	12

60	Southern Ocean fronts: Controlled by wind or topography?. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		65
59	Ocean Rossby waves as a triggering mechanism for primary Madden-Julian events. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012 , 138, 514-527	6.4	49
58	Temporal Variability of Diapycnal Mixing in Shag Rocks Passage. <i>Journal of Physical Oceanography</i> , 2012 , 42, 370-385	2.4	10
57	Dynamical Ocean Forcing of the Madden-Julian Oscillation at Lead Times of up to Five Months. <i>Journal of Climate</i> , 2012 , 25, 2824-2842	4.4	20
56	Rossby wave dynamics of the North Pacific extra-tropical response to El Niño: importance of the basic state in coupled GCMs. <i>Climate Dynamics</i> , 2011 , 37, 391-405	4.2	22
55	North Atlantic climate responses to perturbations in Antarctic Intermediate Water. <i>Climate Dynamics</i> , 2011 , 37, 297-311	4.2	5
54	Circulation and Water Mass Modification in the Brazil-Malvinas Confluence. <i>Journal of Physical Oceanography</i> , 2010 , 40, 845-864	2.4	37
53	Mixed Layer Temperature Response to the Southern Annular Mode: Mechanisms and Model Representation. <i>Journal of Climate</i> , 2010 , 23, 664-678	4.4	18
52	The flow of the Antarctic Circumpolar Current over the North Scotia Ridge. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010 , 57, 14-28	2.5	33
51	Impact of Resolution on the Tropical Pacific Circulation in a Matrix of Coupled Models. <i>Journal of Climate</i> , 2009 , 22, 2541-2556	4.4	72
50	Variability of Subantarctic Mode Water and Antarctic Intermediate Water in the Drake Passage during the Late-Twentieth and Early-Twenty-First Centuries. <i>Journal of Climate</i> , 2009 , 22, 3661-3688	4.4	88
49	The Role of Eddies in the Southern Ocean Temperature Response to the Southern Annular Mode. <i>Journal of Climate</i> , 2009 , 22, 806-818	4.4	85
48	U.K. HiGEM: The New U.K. High-Resolution Global Environment Model—Model Description and Basic Evaluation. <i>Journal of Climate</i> , 2009 , 22, 1861-1896	4.4	196
47	Eddy heat fluxes from direct current measurements of the Antarctic Polar Front in Shag Rocks Passage. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	16
46	A Greenland Sea Perspective on the Dynamics of Postconvective Eddies*. <i>Journal of Physical Oceanography</i> , 2008 , 38, 2755-2771	2.4	15
45	Meridional heat transport across the Antarctic Circumpolar Current by the Antarctic Bottom Water overturning cell. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	5
44	Short-circuiting of the overturning circulation in the Antarctic Circumpolar Current. <i>Nature</i> , 2007 , 447, 194-7	50.4	73
43	Interannual variability of the Tropical Atlantic independent of and associated with ENSO: Part II. The South Tropical Atlantic. <i>International Journal of Climatology</i> , 2006 , 26, 1957-1976	3.5	26

42	Interannual variability of the tropical Atlantic independent of and associated with ENSO: Part I. The North Tropical Atlantic. <i>International Journal of Climatology</i> , 2006 , 26, 1937-1956	3.5	44
41	A Decomposition of the Atlantic Meridional Overturning. <i>Journal of Physical Oceanography</i> , 2006 , 36, 2253-2270	2.4	26
40	Comparison of two time-variant forced eddy-permitting global ocean circulation models with hydrography of the Scotia Sea. <i>Ocean Modelling</i> , 2005 , 9, 105-132	3	10
39	Short-term climate response to a freshwater pulse in the Southern Ocean. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	33
38	Physiological state of phytoplankton communities in the Southwest Atlantic sector of the Southern Ocean, as measured by fast repetition rate fluorometry. <i>Polar Biology</i> , 2005 , 29, 44-52	2	50
37	Can limited ocean mixing buffer rapid climate change?. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2005 , 57, 676-690	2	5
36	Coupled Ocean-Atmosphere Interactions between the Madden-Julian Oscillation and Synoptic-Scale Variability over the Warm Pool. <i>Journal of Climate</i> , 2005 , 18, 2004-2020	4.4	14
35	Tracking passive drifters in a high resolution ocean model: implications for interannual variability of larval krill transport to South Georgia. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004 , 51, 909-909	2.5	1
34	On the fate of the Antarctic Slope Front and the origin of the Weddell Front. <i>Journal of Geophysical Research</i> , 2004 , 109,		80
33	Tracking passive drifters in a high resolution ocean model: implications for interannual variability of larval krill transport to South Georgia. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004 , 51, 909-920	2.5	43
32	Water Mass Conversion, Fluxes, and Mixing in the Scotia Sea Diagnosed by an Inverse Model. <i>Journal of Physical Oceanography</i> , 2003 , 33, 2565-2587	2.4	51
31	An additional deep-water mass in Drake Passage as revealed by 3He data. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2003 , 50, 1079-1098	2.5	42
30	Variability of the southern Antarctic Circumpolar Current front north of South Georgia. <i>Journal of Marine Systems</i> , 2002 , 37, 87-105	2.7	84
29	High mixing rates in the abyssal Southern Ocean. <i>Nature</i> , 2002 , 415, 1011-4	50.4	83
28	The Antarctic Circumpolar Current between the Falkland Islands and South Georgia. <i>Journal of Physical Oceanography</i> , 2002 , 32, 1914-1931	2.4	48
27	Modification and pathways of Southern Ocean Deep Waters in the Scotia Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2002 , 49, 681-705	2.5	139
26	On the export of Antarctic Bottom Water from the Weddell Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002 , 49, 4715-4742	2.3	137
25	Antarctic Circumpolar Current response to zonally averaged winds. <i>Journal of Geophysical Research</i> , 2001 , 106, 2743-2759		31

24	Deep and Bottom Waters in the Eastern Scotia Sea: Rapid Changes in Properties and Circulation. <i>Journal of Physical Oceanography</i> , 2001 , 31, 2157-2168	2.4	29
23	Glacial thermohaline circulation states of the northern Atlantic: the compatibility of modelling and observations. <i>Journal of the Geological Society</i> , 2000 , 157, 655-665	2.7	9
22	Mixing and convection in the Greenland Sea from a tracer-release experiment. <i>Nature</i> , 1999 , 401, 902-904	3.4	58
21	Passive tracers in a general circulation model of the Southern Ocean. <i>Annales Geophysicae</i> , 1999 , 17, 971-982	2	3
20	Simulations of two Last Glacial Maximum ocean states. <i>Paleoceanography</i> , 1998 , 13, 340-351		26
19	Modelling the dynamics and thermodynamics of icebergs. <i>Cold Regions Science and Technology</i> , 1997 , 26, 113-135	3.8	141
18	The importance of interocean exchange south of Africa in a numerical model. <i>Journal of Geophysical Research</i> , 1997 , 102, 3303-3315		13
17	Optimisation of a parallel ocean general circulation model. <i>Annales Geophysicae</i> , 1997 , 15, 1369-1377	2	14
16	The zonal momentum balance in an eddy-resolving general-circulation model of the southern ocean. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1997 , 123, 929-951	6.4	54
15	The zonal momentum balance in an eddy-resolving general-circulation model of the southern ocean 1997 , 123, 929		1
14	Eddy formation behind the tropical island of Aldabra. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1996 , 43, 555-578	2.5	55
13	Current structure of the south Indian Ocean. <i>Journal of Geophysical Research</i> , 1996 , 101, 6377-6391		73
12	Prediction of iceberg trajectories for the North Atlantic and Arctic oceans. <i>Geophysical Research Letters</i> , 1996 , 23, 3587-3590	4.9	52
11	The Dynamics of the Antarctic Circumpolar Current. <i>Journal of Physical Oceanography</i> , 1996 , 26, 753-774	2.4	69
10	Sensitivity of the North Atlantic to Surface Forcing in an Ocean General Circulation Model. <i>Journal of Physical Oceanography</i> , 1996 , 26, 1129-1141	2.4	8
9	A New Tracer Advection Scheme for Bryan and Cox Type Ocean General Circulation Models. <i>Journal of Physical Oceanography</i> , 1995 , 25, 1731-1741	2.4	60
8	The South Atlantic in the Fine-Resolution Antarctic Model. <i>Annales Geophysicae</i> , 1994 , 12, 826-839	2	10
7	A note on leapfrogging vortex rings. <i>Fluid Dynamics Research</i> , 1993 , 11, 235-244	1.2	27

6	Implementing finite difference ocean circulation models on MIMD, distributed memory computers. <i>Future Generation Computer Systems</i> , 1993 , 9, 11-18	7.5	1
5	The Open Boundary Condition in the United Kingdom Fine-Resolution Antarctic Model. <i>Journal of Physical Oceanography</i> , 1991 , 21, 1494-1499	2.4	96
4	A numerical ocean circulation model of the Norwegian and Greenland Seas. <i>Progress in Oceanography</i> , 1991 , 27, 365-402	3.8	16
3	On open boundary conditions for three dimensional primitive equation ocean circulation models. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1990 , 51, 103-133	1.4	115
2	Can limited ocean mixing buffer rapid climate change?		8
1	Modelling iodine in the ocean		1