

# Sarah Gille

## 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.

153  
papers

5,178  
citations

37  
h-index

66  
g-index

170  
ext. papers

6,051  
ext. citations

4.3  
avg. IF

6.17  
L-index

#	Paper	IF	Citations
153	Annual Modulation of Diurnal Winds in the Tropical Oceans. <i>Remote Sensing</i> , <b>2022</b> , 14, 459	5	1
152	Mixing in the Southern Ocean <b>2022</b> , 301-327		2
151	Controls on the Boundary Between Thermally and Non-Thermally Driven p CO <sub>2</sub> Regimes in the South Pacific. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	0
150	Surface Salinity Under Transitioning Ice Cover in the Canada Basin: Climate Model Biases Linked to Vertical Distribution of Fresh Water. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL094739	4.9	3
149	Assessment of ICESat-2 for the recovery of ocean topography. <i>Geophysical Journal International</i> , <b>2021</b> , 226, 456-467	2.6	2
148	Time-Varying Empirical Probability Densities of Southern Ocean Surface Winds: Linking the Leading Mode to SAM and Quantifying Wind Product Differences. <i>Journal of Climate</i> , <b>2021</b> , 1-80	4.4	2
147	Altimetry for the future: Building on 25 years of progress. <i>Advances in Space Research</i> , <b>2021</b> , 68, 319-363	2.4	21
146	The Seasonal Cycle of Significant Wave Height in the Ocean: Local Versus Remote Forcing. <i>Journal of Geophysical Research: Oceans</i> , <b>2021</b> , 126, e2021JC017198	3.3	4
145	Tropical teleconnection impacts on Antarctic climate changes. <i>Nature Reviews Earth &amp; Environment</i> , <b>2021</b> , 2, 680-698	30.2	9
144	Weddell Sea Phytoplankton Blooms Modulated by Sea Ice Variability and Polynya Formation. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087954	4.9	6
143	Estimating Southern Ocean Storm Positions With Seismic Observations. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2019JC015898	3.3	3
142	FluxSat: Measuring the Ocean-Atmosphere Turbulent Exchange of Heat and Moisture from Space. <i>Remote Sensing</i> , <b>2020</b> , 12, 1796	5	10
141	Mooring Observations of Air-Sea Heat Fluxes in Two Subantarctic Mode Water Formation Regions. <i>Journal of Climate</i> , <b>2020</b> , 33, 2757-2777	4.4	12
140	Antarctica and the Southern Ocean. <i>Bulletin of the American Meteorological Society</i> , <b>2020</b> , 101, S287-S326	6.1	6
139	Effects of Buoyancy and Wind Forcing on Southern Ocean Climate Change. <i>Journal of Climate</i> , <b>2020</b> , 33, 10003-10020	4.4	11
138	The Large-Scale Vorticity Balance of the Antarctic Continental Margin in a Fine-Resolution Global Simulation. <i>Journal of Physical Oceanography</i> , <b>2020</b> , 50, 2173-2188	2.4	2
137	Wave-Current Interactions at Meso- and Submesoscales: Insights from Idealized Numerical Simulations. <i>Journal of Physical Oceanography</i> , <b>2020</b> , 50, 3483-3500	2.4	12

136	Optimizing Mooring Placement to Constrain Southern Ocean Air-Sea Fluxes. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2020</b> , 37, 1365-1385	2	1
135	Variability of the Oceans <b>2020</b> , 1-53		0
134	The Importance of Remote Forcing for Regional Modeling of Internal Waves. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2019JC015623	3-3	9
133	Eddy-Induced Acceleration of Argo Floats. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2019JC016042	3-3	1
132	Ocean Observations to Improve Our Understanding, Modeling, and Forecasting of Subseasonal-to-Seasonal Variability. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4-5	10
131	Global Patterns of Submesoscale Surface Salinity Variability. <i>Journal of Physical Oceanography</i> , <b>2019</b> , 49, 1669-1685	2-4	11
130	Integrated Observations of Global Surface Winds, Currents, and Waves: Requirements and Challenges for the Next Decade. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4-5	34
129	Polar Ocean Observations: A Critical Gap in the Observing System and Its Effect on Environmental Predictions From Hours to a Season. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4-5	27
128	Remotely Sensed Winds and Wind Stresses for Marine Forecasting and Ocean Modeling. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4-5	37
127	Fe sources and transport from the Antarctic Peninsula shelf to the southern Scotia Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2019</b> , 150, 103060	2-5	9
126	Global Observations of Fine-Scale Ocean Surface Topography With the Surface Water and Ocean Topography (SWOT) Mission. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4-5	106
125	The Effects of Enhanced Sea Ice Export from the Ross Sea on Recent Cooling and Freshening of the Southeast Pacific. <i>Journal of Climate</i> , <b>2019</b> , 32, 2013-2035	4-4	18
124	Characterizing the Transition From Balanced to Unbalanced Motions in the Southern California Current. <i>Journal of Geophysical Research: Oceans</i> , <b>2019</b> , 124, 2088-2109	3-3	20
123	Physical Drivers of Phytoplankton Bloom Initiation in the Southern Ocean's Scotia Sea. <i>Journal of Geophysical Research: Oceans</i> , <b>2019</b> , 124, 5811-5826	3-3	9
122	Delivering Sustained, Coordinated, and Integrated Observations of the Southern Ocean for Global Impact. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4-5	41
121	Constraining Southern Ocean Air-Sea-Ice Fluxes Through Enhanced Observations. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4-5	16
120	Air-Sea Fluxes With a Focus on Heat and Momentum. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4-5	57
119	Southern Ocean Phytoplankton Blooms Observed by Biogeochemical Floats. <i>Journal of Geophysical Research: Oceans</i> , <b>2019</b> , 124, 7328-7343	3-3	7

118	Water Mass Characteristics of the Antarctic Margins and the Production and Seasonality of Dense Shelf Water. <i>Journal of Geophysical Research: Oceans</i> , <b>2019</b> , 124, 9277-9294	3.3	7
117	Identifying Ocean Swell Generation Events from Ross Ice Shelf Seismic Data. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2019</b> , 36, 2171-2189	2	6
116	Current Systems in the Southern Ocean <b>2019</b> , 228-235		
115	Metrics for the Evaluation of the Southern Ocean in Coupled Climate Models and Earth System Models. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 3120-3143	3.3	19
114	Correlation Lengths for Estimating the Large-Scale Carbon and Heat Content of the Southern Ocean. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 883-901	3.3	13
113	Estimating the Velocity and Transport of Western Boundary Current Systems: A Case Study of the East Australian Current near Brisbane. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2018</b> , 35, 1313-1329	2	11
112	Numerical Simulations to Project Argo Float Positions in the Middepth and Deep Southwest Pacific. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2018</b> , 35, 1425-1440	2	6
111	Recent Southern Ocean warming and freshening driven by greenhouse gas emissions and ozone depletion. <i>Nature Geoscience</i> , <b>2018</b> , 11, 836-841	18.3	104
110	Oceanic Heat Delivery to the Antarctic Continental Shelf: Large-Scale, Low-Frequency Variability. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 7678-7701	3.3	25
109	When Mixed Layers Are Not Mixed. Storm-Driven Mixing and Bio-optical Vertical Gradients in Mixed Layers of the Southern Ocean. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 7264-7289	3.3	29
108	Episodic Southern Ocean Heat Loss and Its Mixed Layer Impacts Revealed by the Farthest South Multiyear Surface Flux Mooring. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 5002-5010	4.9	17
107	Wind modulation of upwelling at the shelf-break front off Patagonia: Observational evidence. <i>Journal of Geophysical Research: Oceans</i> , <b>2017</b> , 122, 2401-2421	3.3	21
106	Small-scale open ocean currents have large effects on wind wave heights. <i>Journal of Geophysical Research: Oceans</i> , <b>2017</b> , 122, 4500-4517	3.3	94
105	Characteristics of colliding sea breeze gravity current fronts: a laboratory study. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2017</b> , 143, 1434-1441	6.4	10
104	The East Pacific Rise current: Topographic enhancement of the interior flow in the South Pacific Ocean. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 277-285	4.9	5
103	Characterization of the Deep Water Surface Wave Variability in the California Current Region. <i>Journal of Geophysical Research: Oceans</i> , <b>2017</b> , 122, 8753-8769	3.3	8
102	Isopycnal eddy mixing across the Kuroshio Extension: Stable versus unstable states in an eddying model. <i>Journal of Geophysical Research: Oceans</i> , <b>2017</b> , 122, 4329-4345	3.3	4
101	The role of wind gusts in upper ocean diurnal variability. <i>Journal of Geophysical Research: Oceans</i> , <b>2017</b> , 122, 7751-7764	3.3	6

100	The Southern Ocean <b>2017</b> , 297-314		2
99	An oceanic heat transport pathway to the Amundsen Sea Embayment. <i>Journal of Geophysical Research: Oceans</i> , <b>2016</b> , 121, 3337-3349	3-3	21
98	Seasonality of submesoscale dynamics in the Kuroshio Extension. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 11,304	4-9	76
97	Mesoscale to Submesoscale Wavenumber Spectra in Drake Passage. <i>Journal of Physical Oceanography</i> , <b>2016</b> , 46, 601-620	2-4	135
96	Atlantic-induced pan-tropical climate change over the past three decades. <i>Nature Climate Change</i> , <b>2016</b> , 6, 275-279	21.4	247
95	New Approaches for Air-Sea Fluxes in the Southern Ocean. <i>Eos</i> , <b>2016</b> , 97,	1.5	10
94	Temporal Changes in the Antarctic Circumpolar Current: Implications for the Antarctic Continental Shelves <b>2016</b> , 29, 96-105		17
93	The Effect of the Kerguelen Plateau on the Ocean Circulation. <i>Journal of Physical Oceanography</i> , <b>2016</b> , 46, 3385-3396	2-4	3
92	Assessing recent trends in high-latitude Southern Hemisphere surface climate. <i>Nature Climate Change</i> , <b>2016</b> , 6, 917-926	21.4	191
91	Properties of the Subantarctic Front and Polar Front from the skewness of sea level anomaly. <i>Journal of Geophysical Research: Oceans</i> , <b>2015</b> , 120, 5179-5193	3-3	26
90	A Multiwavenumber Theory for Eddy Diffusivities and Its Application to the Southeast Pacific (DIMES) Region. <i>Journal of Physical Oceanography</i> , <b>2015</b> , 45, 1877-1896	2-4	14
89	Southern Ocean wind-driven entrainment enhances satellite chlorophyll-a through the summer. <i>Journal of Geophysical Research: Oceans</i> , <b>2015</b> , 120, 304-323	3-3	79
88	Isopycnal Eddy Diffusivities and Critical Layers in the Kuroshio Extension from an Eddy Ocean Model. <i>Journal of Physical Oceanography</i> , <b>2014</b> , 44, 2191-2211	2-4	20
87	Meridional displacement of the Antarctic Circumpolar Current. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2014</b> , 372, 20130273	3	42
86	Pathways of the Agulhas waters poleward of 29°S. <i>Journal of Geophysical Research: Oceans</i> , <b>2014</b> , 119, 4234-4250	3-3	11
85	Meridional volume transport in the South Pacific: Mean and SAM-related variability. <i>Journal of Geophysical Research: Oceans</i> , <b>2014</b> , 119, 2658-2678	3-3	16
84	Subseasonal variations in salinity and barrier-layer thickness in the eastern equatorial Indian Ocean. <i>Journal of Geophysical Research: Oceans</i> , <b>2014</b> , 119, 805-823	3-3	43
83	Improving the geoid: Combining altimetry and mean dynamic topography in the California coastal ocean. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 8944-8952	4-9	11

82	When land breezes collide: Converging diurnal winds over small bodies of water. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2014</b> , 140, 2573-2581	6.4	9
81	Wind-induced upwelling in the Kerguelen Plateau region. <i>Biogeosciences</i> , <b>2014</b> , 11, 6389-6400	4.6	15
80	Eulerian and Lagrangian Isopycnal Eddy Diffusivities in the Southern Ocean of an Eddy Model. <i>Journal of Physical Oceanography</i> , <b>2014</b> , 44, 644-661	2.4	18
79	Drake Passage Oceanic pCO <sub>2</sub> : Evaluating CMIP5 Coupled Carbon-Climate Models Using in situ Observations. <i>Journal of Climate</i> , <b>2014</b> , 27, 76-100	4.4	13
78	Oceanography. How ice shelves melt. <i>Science</i> , <b>2014</b> , 346, 1180-1	33.3	4
77	The diurnal salinity cycle in the tropics. <i>Journal of Geophysical Research: Oceans</i> , <b>2014</b> , 119, 5874-5890	3.3	14
76	Processes controlling upper-ocean heat content in Drake Passage. <i>Journal of Geophysical Research: Oceans</i> , <b>2013</b> , 118, 4409-4423	3.3	7
75	Winter mesoscale circulation on the shelf slope region of the southern Drake Passage. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2013</b> , 90, 4-14	2.3	18
74	Analysis of horizontal and vertical processes contributing to natural iron supply in the mixed layer in southern Drake Passage. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2013</b> , 90, 68-76	2.3	33
73	Optimal multiparameter analysis of source water distributions in the Southern Drake Passage. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2013</b> , 90, 31-42	2.3	17
72	An Assessment of Density-Based Finescale Methods for Estimating Diapycnal Diffusivity in the Southern Ocean. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2013</b> , 30, 2647-2661	2	21
71	The Mean and the Time Variability of the Shallow Meridional Overturning Circulation in the Tropical South Pacific Ocean. <i>Journal of Climate</i> , <b>2013</b> , 26, 4069-4087	4.4	23
70	High-Latitude Ocean and Sea Ice Surface Fluxes: Challenges for Climate Research. <i>Bulletin of the American Meteorological Society</i> , <b>2013</b> , 94, 403-423	6.1	113
69	Spatial Variation in Turbulent Heat Fluxes in Drake Passage. <i>Journal of Climate</i> , <b>2012</b> , 25, 1470-1488	4.4	9
68	Seasonal variability of upper ocean heat content in Drake Passage. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		14
67	Diurnal variability of upper ocean temperatures from microwave satellite measurements and Argo profiles. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		15
66	Mean dynamic topography in the Southern Ocean: Evaluating Antarctic Circumpolar Current transport. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117,		32
65	Wind-Driven Variability of the Subtropical North Pacific Ocean. <i>Journal of Physical Oceanography</i> , <b>2012</b> , 42, 2089-2100	2.4	6

64	In Situ Observations of Madden-Julian Oscillation Mixed Layer Dynamics in the Indian and Western Pacific Oceans. <i>Journal of Climate</i> , <b>2012</b> , 25, 2306-2328	4.4	47
63	Observations over an annual cycle and simulations of wind-forced oscillations near the critical latitude for diurnal inertial resonance. <i>Continental Shelf Research</i> , <b>2011</b> , 31, 1576-1591	2.4	18
62	Subsurface melting of a free-floating Antarctic iceberg. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2011</b> , 58, 1336-1345	2.3	39
61	Ocean Winds and Turbulent Air-Sea Fluxes Inferred From Remote Sensing. <i>Oceanography</i> , <b>2010</b> , 23, 36-51.3	5.3	24
60	Assessing the potential of the Atmospheric Infrared Sounder (AIRS) surface temperature and specific humidity in turbulent heat flux estimates in the Southern Ocean. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		12
59	Isopycnal diffusivities in the Antarctic Circumpolar Current inferred from Lagrangian floats in an eddying model. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		39
58	Improving Observations of High-Latitude Fluxes Between Atmosphere, Ocean, and Ice: Surface Fluxes: Challenges at High Latitudes; Boulder, Colorado, 17-19 March 2010. <i>Eos</i> , <b>2010</b> , 91, 307	1.5	3
57	Global correlations between winds and ocean chlorophyll. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		58
56	Stochastic Dynamics of Sea Surface Height Variability. <i>Journal of Physical Oceanography</i> , <b>2010</b> , 40, 1582-1596	15	
55	Vertical Structure of Kelvin Waves in the Indonesian Throughflow Exit Passages. <i>Journal of Physical Oceanography</i> , <b>2010</b> , 40, 1965-1987	2.4	64
54	Ekman layers in the Southern Ocean: spectral models and observations, vertical viscosity and boundary layer depth. <i>Ocean Science</i> , <b>2009</b> , 5, 115-139	4	25
53	Anomalous Spiking in Spectra of XCTD Temperature Profiles. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2009</b> , 26, 1157-1164	2	6
52	Modal Decay in the Australia-Antarctic Basin. <i>Journal of Physical Oceanography</i> , <b>2009</b> , 39, 2893-2909	2.4	9
51	Assessing eddy heat flux and its parameterization: A wavenumber perspective from a 1/10° ocean simulation. <i>Ocean Modelling</i> , <b>2009</b> , 29, 248-260	3	20
50	Estimates of wind energy input to the Ekman layer in the Southern Ocean from surface drifter data. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		15
49	Southern Ocean mixed-layer depth from Argo float profiles. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		231
48	Observations of the 2004 and 2006 Indian Ocean tsunamis from a pressure gauge array in Indonesia. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		5
47	Decadal-Scale Temperature Trends in the Southern Hemisphere Ocean. <i>Journal of Climate</i> , <b>2008</b> , 21, 4749-4765	4.4	285

46	Mixing and stirring in the Southern Ocean. <i>Eos</i> , <b>2007</b> , 88, 382-383	1.5	16
45	Eddies enhance biological production in the Weddell-Scotia Confluence of the Southern Ocean. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	98
44	Sea level anomalies control phytoplankton biomass in the Costa Rica Dome area. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	17
43	Estimating Eddy Heat Flux from Float Data in the North Atlantic: The Impact of Temporal Sampling Interval. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2007</b> , 24, 923-934	2	5
42	Spatial and Temporal Patterns of Small-Scale Mixing in Drake Passage. <i>Journal of Physical Oceanography</i> , <b>2007</b> , 37, 572-592	2.4	48
41	Multiple Oscillatory Modes of the Argentine Basin. Part I: Statistical Analysis. <i>Journal of Physical Oceanography</i> , <b>2007</b> , 37, 2855-2868	2.4	16
40	Multiple Oscillatory Modes of the Argentine Basin. Part II: The Spectral Origin of Basin Modes. <i>Journal of Physical Oceanography</i> , <b>2007</b> , 37, 2869-2881	2.4	21
39	An Assessment of the Southern Ocean Mixed Layer Heat Budget. <i>Journal of Climate</i> , <b>2007</b> , 20, 4425-4442	2.4	84
38	Validation of the Advanced Microwave Scanning Radiometer for the Earth Observing System (AMSR-E) sea surface temperature in the Southern Ocean. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		44
37	Bathymetry from space: Rationale and requirements for a new, high-resolution altimetric mission. <i>Comptes Rendus - Geoscience</i> , <b>2006</b> , 338, 1049-1062	1.4	35
36	Location of the Antarctic Polar Front from AMSR-E Satellite Sea Surface Temperature Measurements. <i>Journal of Physical Oceanography</i> , <b>2006</b> , 36, 2075-2089	2.4	93
35	Global observations of the land breeze. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	69
34	An Introduction to Ocean Remote Sensing. <i>Eos</i> , <b>2005</b> , 86, 125	1.5	1
33	Adjustment of the Southern Ocean to Wind Forcing on Synoptic Time Scales. <i>Journal of Physical Oceanography</i> , <b>2005</b> , 35, 2076-2089	2.4	28
32	Statistical Characterization of Zonal and Meridional Ocean Wind Stress. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2005</b> , 22, 1353-1372	2	55
31	Energetics of wind-driven barotropic variability in the Southern Ocean. <i>Journal of Marine Research</i> , <b>2005</b> , 63, 1101-1125	1.5	5
30	Seafloor Topography and Ocean Circulation. <i>Oceanography</i> , <b>2004</b> , 17, 47-54	2.3	41
29	Connections Between Ocean Bottom Topography and Earth's Climate. <i>Oceanography</i> , <b>2004</b> , 17, 65-74	2.3	24



28	Using Kolmogorov-Smirnov Statistics to Compare Geostrophic Velocities Measured by the Jason, TOPEX, and Poseidon Altimeters. <i>Marine Geodesy</i> , <b>2004</b> , 27, 47-57	1.2	8
27	How nonlinearities in the equation of state of seawater can confound estimates of steric sea level change. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		13
26	Interpreting wind-driven Southern Ocean variability in a stochastic framework. <i>Journal of Marine Research</i> , <b>2003</b> , 61, 313-334	1.5	24
25	Decadal Timescale Shift in the 14C Record of a Central Equatorial Pacific Coral. <i>Radiocarbon</i> , <b>2003</b> , 45, 91-99	4.6	22
24	Measuring the sea breeze from QuikSCAT Scatterometry. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	59
23	Bathymetry from space is now possible. <i>Eos</i> , <b>2003</b> , 84, 37-44	1.5	14
22	Float Observations of the Southern Ocean. Part II: Eddy Fluxes. <i>Journal of Physical Oceanography</i> , <b>2003</b> , 33, 1182-1196	2.4	52
21	Float Observations of the Southern Ocean. Part I: Estimating Mean Fields, Bottom Velocities, and Topographic Steering. <i>Journal of Physical Oceanography</i> , <b>2003</b> , 33, 1167-1181	2.4	74
20	Statistics of velocity gradients in two-dimensional Navier-Stokes and ocean turbulence. <i>Physical Review E</i> , <b>2002</b> , 65, 026307	2.4	6
19	Warming of the Southern Ocean since the 1950s. <i>Science</i> , <b>2002</b> , 295, 1275-7	33.3	494
18	Ocean Circulation and Climate Observing and Modelling the Global Ocean. <i>Eos</i> , <b>2001</b> , 82, 517-517	1.5	2
17	Antarctic Circumpolar Current response to zonally averaged winds. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 2743-2759		31
16	Aliasing of high-frequency variability by altimetry: Evaluation from bottom pressure recorders. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 1755-1758	4.9	21
15	Global correlation of mesoscale ocean variability with seafloor roughness from satellite altimetry. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 1251-1254	4.9	36
14	Velocity Probability Density Functions from Altimetry. <i>Journal of Physical Oceanography</i> , <b>2000</b> , 30, 125-136		23
13	Mass, heat, and salt transport in the southeastern Pacific: A Circumpolar Current inverse model. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 5191-5209		19
12	The Influence of Mesoscale Eddies on Coarsely Resolved Density: An Examination of Subgrid-Scale Parameterization. <i>Journal of Physical Oceanography</i> , <b>1999</b> , 29, 1109-1123	2.4	27
11	Probability Density Functions of Large-Scale Turbulence in the Ocean. <i>Physical Review Letters</i> , <b>1998</b> , 81, 5249-5252	7.4	17

10	The Southern Ocean Momentum Balance: Evidence for Topographic Effects from Numerical Model Output and Altimeter Data. <i>Journal of Physical Oceanography</i> , <b>1997</b> , 27, 2219-2232	2.4	76
9	Why Potential Vorticity Is Not Conserved along Mean Streamlines in a Numerical Southern Ocean. <i>Journal of Physical Oceanography</i> , <b>1997</b> , 27, 1286-1299	2.4	9
8	Scales of spatial and temporal variability in the Southern Ocean. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 8759-8773		36
7	Dynamics of the Antarctic circumpolar current : evidence for topographic effects from altimeter data and numerical model output <b>1995</b> ,		4
6	Mean sea surface height of the Antarctic Circumpolar Current from Geosat data: Method and application. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 18255		106
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