Lynne D Talley

List of Publications by Citations

154 papers	11,244 citations	56 h-index	104 g-index
170 ext. papers	12,975 ext. citations	5.1 avg, IF	6.63 L-index

#	Paper	IF	Citations
154	Climate change impacts on marine ecosystems. *Annual Review of Marine Science*, **2012**, 4, 11-37	15.4	1548
153	Distribution and Formation of North Pacific Intermediate Water. *Journal of Physical Oceanography*, **1993**, 23, 517-537	2.4	441
152	Hydrography of the eastern tropical Pacific: A review. *Progress in Oceanography*, **2006**, 69, 143-180	3.8	435
151	Distribution and Circulation of Labrador Sea Water. *Journal of Physical Oceanography*, **1982**, 12, 1189-1205	2.4	394
150	Closure of the Global Overturning Circulation Through the Indian, Pacific, and Southern Oceans: Schematics and Transports. *Oceanography*, **2013**, 26, 80-97	2.3	374
149	The Subpolar Mode Water of the North Atlantic Ocean. *Journal of Physical Oceanography*, **1982**, 12, 1169-1188	2.4	303
148	An Okhotsk Sea water anomaly: implications for ventilation in the North Pacific. *Deep-sea Research Part A, Oceanographic Research Papers*, **1991**, 38, S171-S190		300
147	Data-Based Meridional Overturning Streamfunctions for the Global Ocean. *Journal of Climate*, **2003**, 16, 3213-3226	4.4	282
146	Global Patterns of Diapycnal Mixing from Measurements of the Turbulent Dissipation Rate. *Journal of Physical Oceanography*, **2014**, 44, 1854-1872	2.4	280
145	Shallow, Intermediate, and Deep Overturning Components of the Global Heat Budget. *Journal of Physical Oceanography*, **2003**, 33, 530-560	2.4	259
144	Southern Ocean mixed-layer depth from Argo float profiles. *Journal of Geophysical Research*, **2008**, 113,		231
143	Introduction to Descriptive Physical Oceanography **2011**, 1-6		210
142	Freshwater transport estimates and the global overturning circulation: Shallow, deep and throughflow components. *Progress in Oceanography*, **2008**, 78, 257-303	3.8	206
141	A New Algorithm for Finding Mixed Layer Depths with Applications to Argo Data and Subantarctic Mode Water Formation*. *Journal of Atmospheric and Oceanic Technology*, **2009**, 26, 1920-1939	2	175
140	Spatial and temporal variability of global ocean mixing inferred from Argo profiles. *Geophysical Research Letters*, **2012**, 39,	4.9	174
139	Warm-to-Cold Water Conversion in the Northern North Atlantic Ocean. *Journal of Physical Oceanography*, **1984**, 14, 922-935	2.4	158
138	North Pacific Intermediate Water in the Kuroshio/Oyashio Mixed Water Region. *Journal of Physical Oceanography*, **1995**, 25, 475-501	2.4	146

137	Potential Vorticity Distribution in the North Pacific. *Journal of Physical Oceanography*, **1988**, 18, 89-106	2.4	146
136	Direct observations of North Pacific ventilation: brine rejection in the Okhotsk Sea. *Science*, **2003**, 302, 1952-5	33.3	145
135	Water-mass distributions in the western South Atlantic; A section from South Georgia Island (54S) northward across the equator. *Journal of Marine Research*, **1994**, 52, 55-81	1.5	141
134	An Argo mixed layer climatology and database. *Geophysical Research Letters*, **2017**, 44, 5618-5626	4.9	134
133	Water-mass transformation by sea ice in the upper branch of the Southern Ocean overturning. *Nature Geoscience*, **2016**, 9, 596-601	18.3	132
132	The North Atlantic Oscillation, Surface Current Velocities, and SST Changes in the Subpolar North Atlantic. *Journal of Climate*, **2003**, 16, 2355-2369	4.4	125
131	Biogeochemical sensor performance in the SOCCOM profiling float array. *Journal of Geophysical Research: Oceans*, **2017**, 122, 6416-6436	3.3	120
130	An eastern Atlantic section from Iceland southward across the equator. *Deep-sea Research Part A, Oceanographic Research Papers*, **1992**, 39, 1885-1917		120
129	Changes in Ocean Heat, Carbon Content, and Ventilation: A Review of the First Decade of GO-SHIP Global Repeat Hydrography. *Annual Review of Marine Science*, **2016**, 8, 185-215	15.4	118
128	On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array. *Frontiers in Marine Science*, **2019**, 6,	4.5	116
127	Meridional Heat Transport in the Pacific Ocean. *Journal of Physical Oceanography*, **1984**, 14, 231-241	2.4	116
126	High-Latitude Ocean and Sea Ice Surface Fluxes: Challenges for Climate Research. *Bulletin of the American Meteorological Society*, **2013**, 94, 403-423	6.1	113
125	Deep convection and brine rejection in the Japan Sea. *Geophysical Research Letters*, **2003**, 30,	4.9	108
124	A Pacific hydrographic section at 88°W: Water-property distribution. *Journal of Geophysical Research*, **1998**, 103, 12899-12918		108
123	Japan/East Sea Water Masses and Their Relation to the Sea's Circulation. *Oceanography*, **2006**, 19, 32-49	2.3	101
122	Antarctic Intermediate Water in the South Atlantic **1996**, 219-238		95
121	Spiraling pathways of global deep waters to the surface of the Southern Ocean. *Nature Communications*, **2017**, 8, 172	17.4	86
120	Formation rates of Subantarctic mode water and Antarctic intermediate water within the South Pacific. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2011**, 58, 524-534	2.5	85

119	Temporal variability of winter mixed layer in the mid-to high-latitude North Pacific. *Journal of Oceanography*, **2007**, 63, 293-307	1.9	85
118	North Pacific Intermediate Water Transports in the Mixed Water Region. *Journal of Physical Oceanography*, **1997**, 27, 1795-1803	2.4	82
117	Water-property distributions along an eastern Pacific hydrographic section at 135W. *Journal of Marine Research*, **1996**, 54, 541-564	1.5	77
116	Autonomous Biogeochemical Floats Detect Significant Carbon Dioxide Outgassing in the High-Latitude Southern Ocean. *Geophysical Research Letters*, **2018**, 45, 9049-9057	4.9	76
115	Securing ocean benefits for society in the face of climate change. *Marine Policy*, **2013**, 40, 154-159	3.5	76
114	The subarctic frontal zone in the North Pacific: Characteristics of frontal structure from climatological data and synoptic surveys. *Journal of Geophysical Research*, **1996**, 101, 16491-16508		75
113	Ventilation of the Subtropical North Pacific: The Shallow Salinity Minimum. *Journal of Physical Oceanography*, **1985**, 15, 633-649	2.4	74
112	Advection and diffusion of Indonesian Throughflow Water within the Indian Ocean South Equatorial Current. *Geophysical Research Letters*, **1997**, 24, 2573-2576	4.9	73
111	Shallow Salinity Minima in the North Pacific. *Journal of Physical Oceanography*, **1992**, 22, 1302-1316	2.4	69
110	Calculating surface ocean pCO2 from biogeochemical Argo floats equipped with pH: An uncertainty analysis. *Global Biogeochemical Cycles*, **2017**, 31, 591-604	5.9	67
109	Antarctic Intermediate Water and Subantarctic Mode Water Formation in the Southeast Pacific: The Role of Turbulent Mixing. *Journal of Physical Oceanography*, **2010**, 40, 1558-1574	2.4	67
108	Some aspects of ocean heat transport by the shallow, intermediate and deep overturning Circulations. *Geophysical Monograph Series*, **1999**, 1-22	1.1	66
107	Japan/East Sea Intrathermocline Eddies. *Journal of Physical Oceanography*, **2002**, 32, 1960-1974	2.4	65
106	Atlas of Japan (East) Sea hydrographic properties in summer, 1999. *Progress in Oceanography*, **2004**, 61, 277-348	3.8	61
105	The double silica maximum in the North Pacific. *Journal of Geophysical Research*, **1992**, 97, 5465		61
104	The geothermal heating of the abyssal subarctic Pacific Ocean. *Deep-sea Research Part A, Oceanographic Research Papers*, **1986**, 33, 1003-1015		61
103	Estimating the Mean Diapycnal Mixing Using a Finescale Strain Parameterization. *Journal of Physical Oceanography*, **2015**, 45, 1174-1188	2.4	59
102	Surface drifter exchange between the North Atlantic subtropical and subpolar gyres. *Journal of Geophysical Research*, **2006**, 111,		59

101	Subantarctic Mode Water Formation, Destruction, and Export in the Eddy-Permitting Southern Ocean State Estimate. *Journal of Physical Oceanography*, **2013**, 43, 1485-1511	2.4	58
100	Ocean deoxygenation: Past, present, and future. *Eos*, **2011**, 92, 409-410	1.5	58
99	Deep expression of the Indonesian Throughflow: Indonesian Intermediate Water in the South Equatorial Current. *Journal of Geophysical Research*, **2005**, 110,		56
98	Revisiting Ocean Color algorithms for chlorophyll a and particulate organic carbon in the Southern Ocean using biogeochemical floats. *Journal of Geophysical Research: Oceans*, **2017**, 122, 6583-6593	3.3	55
97	Antarctic Intermediate Water circulation in the tropical and subtropical South Atlantic. *Journal of Geophysical Research*, **1995**, 100, 13441		53
96	North Atlantic circulation and variability, reviewed for the CNLS conference. *Physica D: Nonlinear Phenomena*, **1996**, 98, 625-646	3.3	53
95	A Comparison of Southern Ocean Air–Sea Buoyancy Flux from an Ocean State Estimate with Five Other Products. *Journal of Climate*, **2011**, 24, 6283-6306	4.4	52
94	The Role of Cabbeling and Double Diffusion in Setting the Density of the North Pacific Intermediate Water Salinity Minimum. *Journal of Physical Oceanography*, **2001**, 31, 1538-1549	2.4	51
93	Distribution, formation, and seasonal variability of Okhotsk Sea Mode Water. *Journal of Geophysical Research*, **2003**, 108,		48
92	Transport and modification processes of dense shelf water revealed by long-term moorings off Sakhalin in the Sea of Okhotsk. *Journal of Geophysical Research*, **2004**, 109,		47
91	Transpacific sections at 47°N and 152°W: distribution of properties. *Deep-sea Research Part A, Oceanographic Research Papers*, **1991**, 38, S63-S82		47
90	Subpolar Mode Water in the northeastern Atlantic: 1. Averaged properties and mean circulation. *Journal of Geophysical Research*, **2008**, 113,		46
89	Antarctic offshore polynyas linked to Southern Hemisphere climate anomalies. *Nature*, **2019**, 570, 319-325	50.4	45
88	Large-scale impacts of the mesoscale environment on mixing from wind-driven internal waves. *Nature Geoscience*, **2018**, 11, 842-847	18.3	44
87	Deep, zonal subequatorial currents. *Science*, **1994**, 263, 1125-8	33.3	43
86	Evolving Relative Importance of the Southern Ocean and North Atlantic in Anthropogenic Ocean Heat Uptake. *Journal of Climate*, **2018**, 31, 7459-7479	4.4	40
85	Near-Surface Frontal Zone Trapping and Deep Upward Propagation of Internal Wave Energy in the Japan/East Sea. *Journal of Physical Oceanography*, **2003**, 33, 900-912	2.4	37
84	Generalizations of Arakawa's Jacobian. *Journal of Computational Physics*, **1989**, 83, 247-259	4.1	37

83	Large accumulation of anthropogenic CO2 in the East (Japan) Sea and its significant impact on carbonate chemistry. *Global Biogeochemical Cycles*, **2006**, 20, n/a-n/a	5.9	36
82	Sustained Antarctic Research: A 21st Century Imperative. *One Earth*, **2019**, 1, 95-113	8.1	35
81	The role of air-sea fluxes in Subantarctic Mode Water formation. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		34
80	Three-dimensional isoneutral potential vorticity structure in the Indian Ocean. *Journal of Geophysical Research*, **1999**, 104, 13251-13267		34
79	Empirical algorithms to estimate water column pH in the Southern Ocean. *Geophysical Research Letters*, **2016**, 43, 3415-3422	4.9	32
78	Zonal Variations in the Southern Ocean Heat Budget. *Journal of Climate*, **2016**, 29, 6563-6579	4.4	31
77	Subpolar Mode Water in the northeastern Atlantic: 2. Origin and transformation. *Journal of Geophysical Research*, **2008**, 113,		30
76	Heat and Buoyancy Budgets and Mixing Rates in the Upper Thermocline of the Indian and Global Oceans. *Journal of Physical Oceanography*, **1998**, 28, 1961-1978	2.4	30
75	Anomalous Java cooling at the initiation of positive Indian Ocean Dipole events. *Journal of Geophysical Research: Oceans*, **2016**, 121, 5805-5824	3.3	29
74	Quantifying anthropogenic carbon inventory changes in the Pacific sector of the Southern Ocean. *Marine Chemistry*, **2015**, 174, 147-160	3.7	28
73	The Global Ocean Ship-Based Hydrographic Investigations Program (GO-SHIP): A Platform for Integrated Multidisciplinary Ocean Science. *Frontiers in Marine Science*, **2019**, 6,	4.5	27
72	Annual nitrate drawdown observed by SOCCOM profiling floats and the relationship to annual net community production. *Journal of Geophysical Research: Oceans*, **2017**, 122, 6668-6683	3.3	27
71	Radiating Barotropic Instability. *Journal of Physical Oceanography*, **1983**, 13, 972-987	2.4	27
70	Preliminary results from WOCE hydrographic sections at 80°E and 32°S in the central Indian Ocean. *Geophysical Research Letters*, **1997**, 24, 2789-2792	4.9	26
69	Estimates of Kuroshio transport using an inverse technique. *Deep-sea Research Part A, Oceanographic Research Papers*, **1991**, 38, S21-S43		24
68	Meridional overturning transports at 30°S in the Indian and Pacific Oceans in 2002–2003 and 2009. *Progress in Oceanography*, **2016**, 146, 89-120	3.8	24
67	Two decades of Pacific anthropogenic carbon storage and ocean acidification along Global Ocean Ship-based Hydrographic Investigations Program sections P16 and P02. *Global Biogeochemical Cycles*, **2017**, 31, 306	5.9	23
66	Effects of Eddy Vorticity Forcing on the Mean State of the Kuroshio Extension. *Journal of Physical Oceanography*, **2015**, 45, 1356-1375	2.4	22

65	Unabated Bottom Water Warming and Freshening in the South Pacific Ocean. *Journal of Geophysical Research: Oceans*, **2019**, 124, 1778-1794	3.3	22
64	Dense water formation on the northwestern shelf of the Okhotsk Sea: 1. Direct observations of brine rejection. *Journal of Geophysical Research*, **2004**, 109,		21
63	Radiating Instabilities of Thin Baroclinic Jets. *Journal of Physical Oceanography*, **1983**, 13, 2161-2181	2.4	21
62	Representation of Southern Ocean Properties across Coupled Model Intercomparison Project Generations: CMIP3 to CMIP6. *Journal of Climate*, **2020**, 33, 6555-6581	4.4	21
61	Transformation of Deep Water Masses Along Lagrangian Upwelling Pathways in the Southern Ocean. *Journal of Geophysical Research: Oceans*, **2018**, 123, 1994-2017	3.3	19
60	Metrics for the Evaluation of the Southern Ocean in Coupled Climate Models and Earth System Models. *Journal of Geophysical Research: Oceans*, **2018**, 123, 3120-3143	3.3	19
59	Seasonal to interannual variability from expendable bathythermograph and TOPEX/Poseidon altimeter data in the South Pacific subtropical gyre. *Journal of Geophysical Research*, **2000**, 105, 19535-19550		18
58	Episodic Southern Ocean Heat Loss and Its Mixed Layer Impacts Revealed by the Farthest South Multiyear Surface Flux Mooring. *Geophysical Research Letters*, **2018**, 45, 5002-5010	4.9	17
57	Ice-Draft Profiling from Bottom-Mounted ADCP Data. *Journal of Atmospheric and Oceanic Technology*, **2005**, 22, 1249-1266	2	16
56	Northern Arabian Sea Circulation-Autonomous Research (NASCar): A Research Initiative Based on Autonomous Sensors. *Oceanography*, **2017**, 30, 74-87	2.3	15
55	Physical and Biological Drivers of Biogeochemical Tracers Within the Seasonal Sea Ice Zone of the Southern Ocean From Profiling Floats. *Journal of Geophysical Research: Oceans*, **2018**, 123, 746-758	3.3	15
54	Deep tracer and dynamical plumes in the tropical Pacific Ocean. *Journal of Geophysical Research*, **1997**, 102, 24953-24964		15
53	Spatial Fluctuations North of the Hawaiian Ridge. *Journal of Physical Oceanography*, **1986**, 16, 981-984	2.4	15
52	Pacific Anthropogenic Carbon Between 1991 and 2017. *Global Biogeochemical Cycles*, **2019**, 33, 597-617	5.9	14
51	Subantarctic mode water in the southeast Pacific: Effect of exchange across the Subantarctic Front. *Journal of Geophysical Research: Oceans*, **2013**, 118, 2052-2066	3.3	14
50	Process-Specific Contributions to Anomalous Java Mixed Layer Cooling During Positive IOD Events. *Journal of Geophysical Research: Oceans*, **2018**, 123, 4153-4176	3.3	14
49	Crossing the line: Tunas actively exploit submesoscale fronts to enhance foraging success. *Limnology and Oceanography Letters*, **2017**, 2, 187-194	7.9	13
48	Mixing and remineralization in waters detrained from the surface into Subantarctic Mode Water and Antarctic Intermediate Water in the southeastern Pacific. *Journal of Geophysical Research: Oceans*, **2014**, 119, 4001-4028	3.3	13

47	Deep upwelling and diffusivity in the southern central Indian Basin. *Geophysical Research Letters*, **1997**, 24, 2801-2804	4.9	13
46	Southern Ocean Biogeochemical Float Deployment Strategy, With Example From the Greenwich Meridian Line (GO-SHIP A12). *Journal of Geophysical Research: Oceans*, **2019**, 124, 403-431	3.3	13
45	The upper, deep, abyssal and overturning circulation in the Atlantic Ocean at 30°S in 2003 and 2011. *Progress in Oceanography*, **2019**, 176, 102136	3.8	12
44	Space and time variability of the Southern Ocean carbon budget. *Journal of Geophysical Research: Oceans*, **2017**, 122, 7407-7432	3.3	12
43	Near cessation of Eighteen Degree Water renewal in the western North Atlantic in the warm winter of 2011–2012. *Journal of Geophysical Research: Oceans*, **2013**, 118, 6838-6853	3.3	12
42	Dense water formation on the northwestern shelf of the Okhotsk Sea: 2. Quantifying the transports. *Journal of Geophysical Research*, **2004**, 109,		12
41	Cabbeling and the density of the North Pacific Intermediate Water quantified by an inverse method. *Journal of Geophysical Research*, **2003**, 108,		11
40	Effects of Buoyancy and Wind Forcing on Southern Ocean Climate Change. *Journal of Climate*, **2020**, 33, 10003-10020	4.4	11
39	Observing the Ice-Covered Weddell Gyre With Profiling Floats: Position Uncertainties and Correlation Statistics. *Journal of Geophysical Research: Oceans*, **2018**, 123, 8383-8410	3.3	11
38	Oxygen Pathways and Budget for the Eastern South Pacific Oxygen Minimum Zone. *Journal of Geophysical Research: Oceans*, **2018**, 123, 1722-1744	3.3	10
37	Synoptic observation of Central Mode Water in its formation region in spring 2003. *Journal of Oceanography*, **2014**, 70, 521-534	1.9	10
36	Dynamical Processes for Descriptive Ocean Circulation **2011**, 1-72		10
35	Seasonal Cycle and Annual Reversal of the Somali Current in an Eddy-Resolving Global Ocean Model. *Journal of Geophysical Research: Oceans*, **2018**, 123, 6562-6580	3.3	10
34	Physical Drivers of Phytoplankton Bloom Initiation in the Southern Ocean's Scotia Sea. *Journal of Geophysical Research: Oceans*, **2019**, 124, 5811-5826	3.3	9
33	Nonlinear vorticity balance of the Subantarctic Front in the southeast Pacific. *Journal of Geophysical Research*, **2010**, 115,		9
32	The influence of geochemical processes in the near-bottom layer on the hydrochemical characteristics of the waters of the Sea of Japan. *Oceanology*, **2007**, 47, 350-359	0.7	9
31	Dynamical Processes for Descriptive Ocean Circulation **2011**, 187-221		8
30	A tribute to Joseph L. Reid in recognition of 40 years of contributions to oceanography. *Deep-sea Research Part A, Oceanographic Research Papers*, **1991**, 38, vi-xi		7

29	Estimates of Time and Space Scales at 300 Meters in the Midlatitude North Pacific from the TRANSPAC XBT Program. *Journal of Physical Oceanography*, **1987**, 17, 2168-2188	2.4	7
28	Ocean warming and accelerating Southern Ocean zonal flow. *Nature Climate Change*, **2021**, 11, 1090-1097	21.4	7
27	Supercooled Southern Ocean Waters. *Geophysical Research Letters*, **2020**, 47, e2020GL090242	4.9	7
26	100 Years of Progress in Ocean Observing Systems. *Meteorological Monographs*, **2019**, 59, 3.1-3.46	5.7	6
25	Weddell Sea Phytoplankton Blooms Modulated by Sea Ice Variability and Polynya Formation. *Geophysical Research Letters*, **2020**, 47, e2020GL087954	4.9	6
24	Annual cycle and destruction of Eighteen Degree Water. *Journal of Geophysical Research: Oceans*, **2016**, 121, 6604-6617	3.3	6
23	Some advances in understanding of the general circulation of the Pacific Ocean, with emphasis on recent U.S. contributions. *Reviews of Geophysics*, **1995**, 33, 1335-1352	23.1	6
22	A Deep Eastern Boundary Current Carrying Indian Deep Water South of Australia. *Journal of Geophysical Research: Oceans*, **2019**, 124, 2218-2238	3.3	6
21	Water Mass and Biogeochemical Variability in the Kerguelen Sector of the Southern Ocean: A Machine Learning Approach for a Mixing Hot Spot. *Journal of Geophysical Research: Oceans*, **2020**, 125, e2019JC015877	3.3	6
20	Repeat hydrography cruises reveal chemical changes in the North Atlantic. *Eos*, **2005**, 86, 399	1.5	5
19	High spatial resolution global ocean metagenomes from Bio-GO-SHIP repeat hydrography transects. *Scientific Data*, **2021**, 8, 107	8.2	5
18	Oxygen Seasonality, Utilization Rate, and Impacts of Vertical Mixing in the Eighteen Degree Water Region of the Sargasso Sea as Observed by Profiling Biogeochemical Floats. *Global Biogeochemical Cycles*, **2021**, 35, e2020GB006824	5.9	3
17	GO-SHIP Easy Ocean: Gridded ship-based hydrographic section of temperature, salinity, and dissolved oxygen.. *Scientific Data*, **2022**, 9, 103	8.2	3
16	2.Oceanography **2017**, 19-33		2
15	Interannual Variability in the Gulf of Alaska during the 1991–94 El Niño. *Journal of Climate*, **2000**, 13, 1664-1673	4.4	2
14	Spatial and Temporal Variability of Diapycnal Mixing in the Indian Ocean. *Journal of Geophysical Research: Oceans*, **2021**, 126, e2021JC017257	3.3	2
13	Pacific Ocean **2011**, 1-31		1
12	Gravity Waves, Tides, and Coastal Oceanography **2011**, 1-31		1

11	Climate and the Oceans **2011**, 1-36		1
10	High spatial resolution global ocean metagenomes from Bio-GO-SHIP repeat hydrography transects		1
9	Abyssal Heat Budget in the Southwest Pacific Basin. *Journal of Physical Oceanography*, **2021**,	2.4	1
8	Global Circulation and Water Properties: Supplementary Materials **2011**, 1-9		0
7	Controls on the Boundary Between Thermally and Non-Thermally Driven p CO 2 Regimes in the South Pacific. *Geophysical Research Letters*, **2022**, 49,	4.9	0
6	Atlases Give Global Snapshot of Oceans in the 1990s. *Eos*, **2014**, 95, 101-102	1.5	
5	Southern Ocean: Supplementary Materials **2011**, 1-4		
4	Atlantic Ocean: Supplementary Materials **2011**, 1-43		
3	Indian Ocean: Supplementary Materials **2011**, 1-14		
2	Correction [to Repeat hydrography cruises reveal chemical changes in the North Atlantic]. *Eos*, **2005**, 86, 417	1.5	
1	Variability in the meridional overturning circulation at 32°S in the Pacific Ocean diagnosed by inverse box models. *Progress in Oceanography*, **2022**, 203, 102780	3.8	