

Christopher S Meinen

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

5,921
citations

109321

35
h-index

74163

75
g-index

88
all docs

88
docs citations

88
times ranked

4970
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporal Variability of the Atlantic Meridional Overturning Circulation at 26.5°N. <i>Science</i> , 2007, 317, 935-938.	12.6	718
2	Observations of Warm Water Volume Changes in the Equatorial Pacific and Their Relationship to El Niño and La Niña. <i>Journal of Climate</i> , 2000, 13, 3551-3559.	3.2	516
3	Continuous, Array-Based Estimates of Atlantic Ocean Heat Transport at 26.5°N. <i>Journal of Climate</i> , 2011, 24, 2429-2449.	3.2	352
4	Measuring the Atlantic Meridional Overturning Circulation at 26°N. <i>Progress in Oceanography</i> , 2015, 130, 91-111.	3.2	314
5	Observed decline of the Atlantic meridional overturning circulation 2004–2012. <i>Ocean Science</i> , 2014, 10, 29-38.	3.4	293
6	Seasonal Variability of the Atlantic Meridional Overturning Circulation at 26.5°N. <i>Journal of Climate</i> , 2010, 23, 5678-5698.	3.2	270
7	The North Atlantic Ocean Is in a State of Reduced Overturning. <i>Geophysical Research Letters</i> , 2018, 45, 1527-1533.	4.0	263
8	Observed interannual variability of the Atlantic meridional overturning circulation at 26.5°N. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	211
9	Observed Flow Compensation Associated with the MOC at 26.5°N in the Atlantic. <i>Science</i> , 2007, 317, 938-941.	12.6	205
10	Florida Current transport variability: An analysis of annual and longer-period signals. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010, 57, 835-846.	1.4	156
11	Vertical structure and transport on a transect across the North Atlantic Current near 42°N: Time series and mean. <i>Journal of Geophysical Research</i> , 2000, 105, 21869-21891.	3.3	148
12	State of the Climate in 2013. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, S1-S279.	3.3	138
13	Monitoring the Atlantic meridional overturning circulation. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1744-1753.	1.4	135
14	State of the Climate in 2010. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, S1-S236.	3.3	135
15	State of the Climate in 2012. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, S1-S258.	3.3	129
16	State of the Climate in 2011. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, S1-S282.	3.3	121
17	Atlantic Meridional Overturning Circulation: Observed Transport and Variability. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	120
18	Interannual Variability in Warm Water Volume Transports in the Equatorial Pacific during 1993–99*. <i>Journal of Physical Oceanography</i> , 2001, 31, 1324-1345.	1.7	81

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19	State of the Climate in 2014. Bulletin of the American Meteorological Society, 2015, 96, ES1-ES32.	3.3	78
20	State of the Climate in 2008. Bulletin of the American Meteorological Society, 2009, 90, S1-S196.	3.3	74
21	Temporal variability of the meridional overturning circulation at 34.5°S: Results from two pilot boundary arrays in the South Atlantic. Journal of Geophysical Research: Oceans, 2013, 118, 6461-6478.	2.6	70
22	Interannual variations in the Atlantic meridional overturning circulation and its relationship with the net northward heat transport in the South Atlantic. Geophysical Research Letters, 2009, 36, .	4.0	67
23	Observed Interannual Variability of the Florida Current: Wind Forcing and the North Atlantic Oscillation. Journal of Physical Oceanography, 2009, 39, 721-736.	1.7	56
24	Meridional Overturning Circulation Transport Variability at 34.5°S During 2009–2017: Baroclinic and Barotropic Flows and the Dueling Influence of the Boundaries. Geophysical Research Letters, 2018, 45, 4180-4188.	4.0	55
25	Propagation pathways of classical Labrador Sea water from its source region to 26°N. Journal of Geophysical Research, 2011, 116, .	3.3	54
26	Structure of the North Atlantic current in stream-coordinates and the circulation in the Newfoundland basin. Deep-Sea Research Part I: Oceanographic Research Papers, 2001, 48, 1553-1580.	1.4	49
27	Strong Mixing and Recirculation in the Northwestern Argentine Basin. Journal of Geophysical Research: Oceans, 2018, 123, 4624-4648.	2.6	43
28	The fate of the Deep Western Boundary Current in the South Atlantic. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 103, 125-136.	1.4	41
29	Transport variability of the Deep Western Boundary Current and the Antilles Current off Abaco Island, Bahamas. Deep-Sea Research Part I: Oceanographic Research Papers, 2004, 51, 1397-1415.	1.4	40
30	State of the Climate in 2005. Bulletin of the American Meteorological Society, 2006, 87, s1-s102.	3.3	39
31	Sustainable Observations of the AMOC: Methodology and Technology. Reviews of Geophysics, 2020, 58, e2019RG000654.	23.0	39
32	Vertical Velocities and Transports in the Equatorial Pacific during 1993–99*. Journal of Physical Oceanography, 2001, 31, 3230-3248.	1.7	38
33	Rain impacts on CO ₂ exchange in the western equatorial Pacific Ocean. Geophysical Research Letters, 2010, 37, .	4.0	38
34	Compensation between meridional flow components of the Atlantic MOC at 26°N. Ocean Science, 2016, 12, 481-493.	3.4	38
35	Basin-Wide Oceanographic Array Bridges the South Atlantic. Eos, 2014, 95, 53-54.	0.1	36
36	Further evidence that the sound-speed algorithm of Del Grosso is more accurate than that of Chen and Millero. Journal of the Acoustical Society of America, 1997, 102, 2058-2062.	1.1	34

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37	Implications of changing El Niño patterns for biological dynamics in the equatorial Pacific Ocean. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	34
38	Calibrating Inverted Echo Sounders Equipped with Pressure Sensors. <i>Journal of Atmospheric and Oceanic Technology</i> , 1998, 15, 1339-1345.	1.3	33
39	Geostrophic Velocity Measurement Techniques for the Meridional Overturning Circulation and Meridional Heat Transport in the South Atlantic. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 1504-1521.	1.3	33
40	Absolutely referenced geostrophic velocity and transport on a section across the North Atlantic Current. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2000, 47, 309-322.	1.4	31
41	Variability of the Deep Western Boundary Current at 26.5°N during 2004–2009. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013, 85, 154-168.	1.4	31
42	Seasonal variations in the South Atlantic Meridional Overturning Circulation from observations and numerical models. <i>Geophysical Research Letters</i> , 2014, 41, 4611-4618.	4.0	28
43	Structure, transport, and vertical coherence of the Gulf Stream from the Straits of Florida to the Southeast Newfoundland Ridge. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 112, 137-154.	1.4	28
44	Characteristics and causes of Deep Western Boundary Current transport variability at 34.5°S during 2009–2014. <i>Ocean Science</i> , 2017, 13, 175-194.	3.4	26
45	Highly variable upper and abyssal overturning cells in the South Atlantic. <i>Science Advances</i> , 2020, 6, eaba7573.	10.3	26
46	Cross validating ocean prediction and monitoring systems. <i>Eos</i> , 2005, 86, 269.	0.1	24
47	Structure, transport and potential vorticity of the Gulf Stream at 68°W: Revisiting older data sets with new techniques. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 41-60.	1.4	24
48	Eddy impacts on the Florida Current. <i>Geophysical Research Letters</i> , 2013, 40, 349-353.	4.0	23
49	Observed Ocean Bottom Temperature Variability at Four Sites in the Northwestern Argentine Basin: Evidence of Decadal Deep/Abyssal Warming Amidst Hourly to Interannual Variability During 2009–2019. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089093.	4.0	21
50	Combining Inverted Echo Sounder and Horizontal Electric Field Recorder Measurements to Obtain Absolute Velocity Profiles. <i>Journal of Atmospheric and Oceanic Technology</i> , 2002, 19, 1653-1664.	1.3	19
51	Global Meridional Overturning Circulation Inferred From a Data-Constrained Ocean & Sea-Ice Model. <i>Geophysical Research Letters</i> , 2019, 46, 1521-1530.	4.0	19
52	Mean stream coordinates structure of the Subantarctic Front: Temperature, salinity, and absolute velocity. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	18
53	Variability in Deep Western Boundary Current transports: Preliminary results from 26.5°N in the Atlantic. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	17
54	Deep Western Boundary Current transport variability in the South Atlantic: preliminary results from a pilot array at 34.5° S. <i>Ocean Science</i> , 2012, 8, 1041-1054.	3.4	17

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55	Accuracy of Florida Current Volume Transport Measurements at 27°N Using Multiple Observational Techniques. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 1169-1180.	1.3	17
56	Shallow and Deep Eastern Boundary Currents in the South Atlantic at 34.5°S: Mean Structure and Variability. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 1634-1659.	2.6	17
57	Structure and Variability of the Antilles Current at 26.5°N. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 3700-3723.	2.6	16
58	Warming Trend in Antarctic Bottom Water in the Vema Channel in the South Atlantic. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094709.	4.0	16
59	Circulation-driven variability of Atlantic anthropogenic carbon transports and uptake. <i>Nature Geoscience</i> , 2021, 14, 571-577.	12.9	15
60	Meridional Extent and Interannual Variability of the Pacific Ocean Tropical-Subtropical Warm Water Exchange. <i>Journal of Physical Oceanography</i> , 2005, 35, 323-335.	1.7	14
61	Florida Current Salinity and Salinity Transport: Mean and Decadal Changes. <i>Geophysical Research Letters</i> , 2017, 44, 10,495.	4.0	14
62	Comparison of methods of estimating mean synoptic current structure in ocean stream coordinates reference frames with an example from the Antarctic Circumpolar Current. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2003, 50, 201-220.	1.4	13
63	The South Atlantic Meridional Overturning Circulation and Mesoscale Eddies in the First GO-SHIP Section at 34.5°S. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016962.	2.6	12
64	Attribution of Deep Western Boundary Current variability at 26.5°N. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 90, 81-90.	1.4	11
65	Synoptic maps of temperature and velocity within the Subantarctic Front south of Australia. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	10
66	Mechanisms of Eddy-Driven Variability of the Florida Current. <i>Journal of Physical Oceanography</i> , 2019, 49, 1319-1338.	1.7	10
67	Correction of Motional Electric Field Measurements for Galvanic Distortion*. <i>Journal of Atmospheric and Oceanic Technology</i> , 2004, 21, 317-330.	1.3	9
68	Multi-Year Estimates of Daily Heat Transport by the Atlantic Meridional Overturning Circulation at 34.5°S. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016947.	2.6	8
69	Inferring Florida Current Volume Transport From Satellite Altimetry. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016763.	2.6	8
70	Measuring the Atlantic Meridional Overturning Circulation. <i>Marine Technology Society Journal</i> , 2015, 49, 167-177.	0.4	8
71	Salinity Transport in the Florida Straits. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 971-983.	1.3	7
72	Brazil Current Volume Transport Variability During 2009-2015 From a Long-Term Moored Array at 34.5°S. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC017146.	2.6	7

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73	Abyssal Transport Variations in the Southwest South Atlantic: First Insights From a Long-Term Observation Array at 34.5°S. <i>Geophysical Research Letters</i> , 2019, 46, 6699-6705.	4.0	6
74	Evaluating pressure gauges as a potential future replacement for electromagnetic cable observations of the Florida Current transport at 27°N. <i>Journal of Operational Oceanography</i> , 2021, 14, 166-176.	1.2	6
75	Newfoundland Basin sea-level variability from TOPEX/POSEIDON altimetry and inverted echo sounder bottom pressure measurements. <i>Canadian Journal of Remote Sensing</i> , 2002, 28, 544-555.	2.4	5
76	Accuracy in Mooring Motion Temperature Corrections. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008, 25, 2293-2303.	1.3	5
77	Estimating Mooring Motion when the Pressure Sensors Fail: A Method Employing Inverted Echo Sounders. <i>Journal of Atmospheric and Oceanic Technology</i> , 2002, 19, 1451-1460.	1.3	2
78	What Caused the Large-Scale Heat Deficit in the Subtropical South Atlantic Ocean During 2009-2012?. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088206.	4.0	2
79	Temporal Sampling: How Many Sections Are Needed to Quantify the Mean Transport and Structure of a Meandering Current?. <i>Journal of Atmospheric and Oceanic Technology</i> , 2005, 22, 476-489.	1.3	0
80	Reply to "Comment on: Structure, transport, and vertical coherence of the Gulf Stream from the Straits of Florida to the Southeast Newfoundland Ridge, by Meinen and Luther" by Dana K. Savidge. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 112, 158-159.	1.4	0