Gilles Reverdin

List of Publications by Year
in descending order

190 papers	8,267 citations	57758 44 h-index	58581 82 g-index
223 all docs	223 docs citations	223 times ranked	7110 citing authors

#	Article	IF	Citations
1	Global high-resolution mapping of ocean circulation from TOPEX/Poseidon and ERS-1 and -2. Journal of Geophysical Research, 2000, 105, 19477-19498.	3.3	1,418
2	The CORA dataset: validation and diagnostics of in-situ ocean temperature and salinity measurements. Ocean Science, 2013, 9, 1-18.	3.4	190
3	A Pilot Research Moored Array in the Tropical Atlantic (PIRATA). Bulletin of the American Meteorological Society, 1998, 79, 2019-2031.	3.3	188
4	North Atlantic Ocean surface currents. Journal of Geophysical Research, 2003, 108, 2-1.	3.3	172
5	Seasonal cycle of velocity in the Atlantic North Equatorial Countercurrent as measured by surface drifters, current meters, and ship drifts. Journal of Geophysical Research, 1987, 92, 3691-3708.	3.3	162
6	Surprising return of deep convection to the subpolar North Atlantic Ocean in winter 2007â€“2008. Nature Geoscience, 2009, 2, 67-72.	12.9	160
7	Seasonal variability in the surface currents of the equatorial Pacific. Journal of Geophysical Research, 1994, 99, 20323.	3.3	143
8	Ocean circulation causes the largest freshening event for 120 years in eastern subpolar North Atlantic. Nature Communications, 2020, 11, 585.	12.8	142
9	New SMOS Sea Surface Salinity with reduced systematic errors and improved variability. Remote Sensing of Environment, 2018, 214, 115-134.	11.0	132
10	Animal-Borne Telemetry: An Integral Component of the Ocean Observing Toolkit. Frontiers in Marine Science, 2019, 6, .	2.5	127
11	Satellite and In Situ Salinity: Understanding Near-Surface Stratification and Subfootprint Variability. Bulletin of the American Meteorological Society, 2016, 97, 1391-1407.	3.3	126
12	Interannual displacements of convection and surface circulation over the equatorial Indian Ocean. Quarterly Journal of the Royal Meteorological Society, 1986, 112, 43-67.	2.7	125
13	Deuterium excess in marine water vapor: Dependency on relative humidity and surface wind speed during evaporation. Journal of Geophysical Research D: Atmospheres, 2014, 119, 584-593.	3.3	123
14	Marine Mammals Exploring the Oceans Pole to Pole: A Review of the MEOP Consortium. Oceanography, 2017, 30, 132-138.	1.0	123
15	Near-Surface Salinity as Natureâ€™s Rain Gauge to Detect Human Influence on the Tropical Water Cycle. Journal of Climate, 2012, 25, 958-977.	3.2	122
16	Interannual and decadal variability of the oceanic carbon sink in the North Atlantic subpolar gyre. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 168-178.	1.6	114
17	Sea surface freshening inferred from SMOS and ARGO salinity: impact of rain. Ocean Science, 2013, 9, 183-192.	3.4	112
18	Surface current distributions in the tropical Indian Ocean derived from compilations of surface buoy trajectories. Journal of Geophysical Research, 1990, 95, 7217-7238.	3.3	110

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19	A Southern Indian Ocean database of hydrographic profiles obtained with instrumented elephant seals. Scientific Data, 2014, 1, 140028.	5.3	110
20	Estimates of the Southern Ocean general circulation improved by animalâ€borne instruments. Geophysical Research Letters, 2013, 40, 6176-6180.	4.0	108
21	Haline hurricane wake in the Amazon/Orinoco plume: AQUARIUS/SACD and SMOS observations. Geophysical Research Letters, 2012, 39, .	4.0	107
22	A freshwater jet on the east Greenland shelf. Journal of Geophysical Research, 2002, 107, 5-1.	3.3	102
23	Atlantic Climate Variability and Predictability: A CLIVAR Perspective. Journal of Climate, 2006, 19, 5100-5121.	3.2	99
24	Surface salinity in the Atlantic Ocean (30Â°Sâ€“50Â°N). Progress in Oceanography, 2007, 73, 311-340.	3.2	97
25	Decadal variability of hydrography in the upper northern North Atlantic in 1948-1990. Journal of Geophysical Research, 1997, 102, 8505-8531.	3.3	95
26	EUREC⁴A. Earth System Science Data, 2021, 13, 4067-4119.	9.9	88
27	Delayed-Mode Calibration of Hydrographic Data Obtained from Animal-Borne Satellite Relay Data Loggers. Journal of Atmospheric and Oceanic Technology, 2011, 28, 787-801.	1.3	83
28	Vertical Variability of Near-Surface Salinity in the Tropics: Consequences for L-Band Radiometer Calibration and Validation. Journal of Atmospheric and Oceanic Technology, 2010, 27, 192-209.	1.3	75
29	Surface layer circulation derived from Lagrangian drifters in the Bay of Biscay. Journal of Marine Systems, 2013, 109-110, S60-S76.	2.1	74
30	Recent acceleration of the sea surface fCO₂ growth rate in the North Atlantic subpolar gyre (1993â€“2008) revealed by winter observations. Global Biogeochemical Cycles, 2010, 24, .	4.9	67
31	Decadal variations in Labrador Sea ice cover and North Atlantic sea surface temperatures. Journal of Geophysical Research, 2002, 107, 3-1.	3.3	66
32	North Atlantic Subpolar Gyre Surface Variability (1895â€“2009). Journal of Climate, 2010, 23, 4571-4584.	3.2	66
33	Year-to-year salinity changes in the Amazon plume: Contrasting 2011 and 2012 Aquarius/SACD and SMOS satellite data. Remote Sensing of Environment, 2014, 140, 14-22.	11.0	65
34	The Upper Equatorial Indian Ocean. The Climatological Seasonal Cycle. Journal of Physical Oceanography, 1987, 17, 903-927.	1.7	62
35	Vertical Structure of an OGCM Simulation of the Equatorial Pacific Ocean in 1985â€“94. Journal of Physical Oceanography, 1999, 29, 1542-1570.	1.7	61
36	Formation and Propagation of Temperature Anomalies along the North Atlantic Current*. Journal of Physical Oceanography, 2001, 31, 1287-1303.	1.7	58

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37	North Atlantic Ocean Circulation and Decadal Sea Level Change During the Altimetry Era. Scientific Reports, 2019, 9, 1041.	3.3	56
38	Interannual long equatorial waves in the tropical Atlantic from a high-resolution ocean general circulation model experiment in 1981â€“2000. Journal of Geophysical Research, 2004, 109, .	3.3	54
39	The French contribution to the voluntary observing ships network of sea surface salinity. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 105, 1-18.	1.4	54
40	CAROLS: A New Airborne L-Band Radiometer for Ocean Surface and Land Observations. Sensors, 2011, 11, 719-742.	3.8	51
41	Rainâ€induced variability of near seaâ€surface T and S from drifter data. Journal of Geophysical Research, 2012, 117, .	3.3	51
42	A new record of Atlantic sea surface salinity from 1896 to 2013 reveals the signatures of climate variability and longâ€term trends. Geophysical Research Letters, 2017, 44, 1866-1876.	4.0	51
43	Global in situ Observations of Essential Climate and Ocean Variables at the Airâ€“Sea Interface. Frontiers in Marine Science, 2019, 6, .	2.5	49
44	Sea surface salinity under rain cells: SMOS satellite and in situ drifters observations. Journal of Geophysical Research: Oceans, 2014, 119, 5533-5545.	2.6	47
45	Mitigation of systematic errors in SMOS sea surface salinity. Remote Sensing of Environment, 2016, 180, 164-177.	11.0	47
46	Water vapour transport over the Indian Ocean during summer 1915. Tellus, 2022, 33, 476.	0.8	46
47	Water vapour transport over the Indian Ocean during summer 1975. Tellus, 1981, 33, 476-487.	0.8	46
48	Introduction to the POMME special section: Thermocline ventilation and biogeochemical tracer distribution in the northeast Atlantic Ocean and impact of mesoscale dynamics. Journal of Geophysical Research, 2005, 110, .	3.3	45
49	Isopycnal and diapycnal circulation of the upper equatorial Atlantic Ocean in 1983â€“1984. Journal of Geophysical Research, 1992, 97, 3543-3572.	3.3	43
50	Response of the atmospheric boundary layer to a mesoscale oceanic eddy in the northeast Atlantic. Journal of Geophysical Research, 2004, 109, .	3.3	43
51	Mixed and mixing layer depths in the ocean surface boundary layer under conditions of diurnal stratification. Geophysical Research Letters, 2014, 41, 8469-8476.	4.0	43
52	Expanding Tara Oceans Protocols for Underway, Ecosystemic Sampling of the Ocean-Atmosphere Interface During Tara Pacific Expedition (2016â€“2018). Frontiers in Marine Science, 2019, 6, .	2.5	42
53	Sea surface salinity interannual variability in the western tropical Atlantic: An ocean general circulation model study. Journal of Geophysical Research, 2004, 109, .	3.3	40
54	SMOS salinity in the subtropical North Atlantic salinity maximum: 1. Comparison with Aquarius and in situ salinity. Journal of Geophysical Research: Oceans, 2014, 119, 8878-8896.	2.6	39

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55	The near surface tropical Atlantic in 1982â€“1984: Results from a numerical simulation and a data analysis. Progress in Oceanography, 1991, 27, 273-340.	3.2	38
56	Seasonal sea surface height variability in the North Atlantic Ocean. Journal of Geophysical Research, 2000, 105, 6307-6326.	3.3	38
57	Enhanced Turbulence Associated with the Diurnal Jet in the Ocean Surface Boundary Layer. Journal of Physical Oceanography, 2016, 46, 3051-3067.	1.7	38
58	Interannual variability of surface currents in the tropical Pacific during 1987-1993. Journal of Geophysical Research, 1996, 101, 3629-3647.	3.3	36
59	PCO2, chemical properties, and estimated new production in the equatorial Pacific in Januaryâ€“March 1991. Journal of Geophysical Research, 1994, 99, 12639.	3.3	35
60	Mapping near-inertial variability in the SE Bay of Biscay from HF radar data and two offshore moored buoys. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	33
61	A seafloor experiment to monitor vertical deformation at the Lucky Strike volcano, Mid-Atlantic Ridge. Journal of Geodesy, 2009, 83, 147-159.	3.6	32
62	Interannual anomalies of SMOS sea surface salinity. Remote Sensing of Environment, 2016, 180, 128-136.	11.0	32
63	Stable isotopes in surface waters of the <scp>A</scp>tlantic <scp>O</scp>cean: Indicators of oceanâ€atmosphere water fluxes and oceanic mixing processes. Journal of Geophysical Research: Oceans, 2017, 122, 4723-4742.	2.6	32
64	Long waves in the equatorial Atlantic Ocean during 1983. Journal of Geophysical Research, 1987, 92, 2835-2842.	3.3	31
65	New insights into SMOS sea surface salinity retrievals in the Arctic Ocean. Remote Sensing of Environment, 2020, 249, 112027.	11.0	31
66	Observed mean and mesoscale upper ocean circulation in the midlatitude northeast Atlantic. Journal of Geophysical Research, 2005, 110, .	3.3	30
67	Nd isotopic composition of water masses and dilution of the Mediterranean outflow along the southwest European margin. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	30
68	SMOSSea Surface Salinity signals of tropical instability waves. Journal of Geophysical Research: Oceans, 2014, 119, 7811-7826.	2.6	30
69	Upper ocean variability between Iceland and Newfoundland, 1993-1998. Journal of Geophysical Research, 1999, 104, 29599-29611.	3.3	29
70	SMOS salinity in the subtropical North Atlantic salinity maximum: 2. Twoâ€dimensional horizontal thermohaline variability. Journal of Geophysical Research: Oceans, 2015, 120, 972-987.	2.6	29
71	Satelliteâ€Based Sea Surface Salinity Designed for Ocean and Climate Studies. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017676.	2.6	29
72	Nearâ€surface current and temperature variability observed in the equatorial Atlantic from drifting buoys. Journal of Geophysical Research, 1986, 91, 6569-6581.	3.3	28

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73	Large-scale variability modes of freshwater flux and precipitation over the Atlantic. Climate Dynamics, 2002, 18, 369-381.	3.8	28
74	Generation Mechanism of Spiciness Anomalies: An OGCM Analysis in the North Atlantic Subtropical Gyre. Journal of Physical Oceanography, 2009, 39, 1003-1018.	1.7	28
75	Importance of boundary layer mixing for the isotopic composition of surface vapor over the subtropical North Atlantic Ocean. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2190-2209.	3.3	28
76	The Monsoon over the Indian Ocean during Summer 1975. Part I: Mean Fields. Monthly Weather Review, 1981, 109, 148-158.	1.4	27
77	Recent changes in the surface salinity of the North Atlantic subpolar gyre. Journal of Geophysical Research, 2002, 107, SFR 11-1-SFR 11-13.	3.3	27
78	MoMAR-D: a technological challenge to monitor the dynamics of the Lucky Strike vent ecosystem. ICES Journal of Marine Science, 2011, 68, 416-424.	2.5	27
79	Surface salinity of the North Atlantic: Can we reconstruct its fluctuations over the last one hundred years?. Progress in Oceanography, 1994, 33, 303-346.	3.2	26
80	Decadal changes in the mid-depth water mass dynamic of the Northeastern Atlantic margin (Bay of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.4	26
81	Stable isotopes in the atmospheric marine boundary layer water vapour over the Atlantic Ocean, 2012â€“2015. Scientific Data, 2017, 4, 160128.	5.3	26
82	Seasonal variations in dissolved neodymium isotope composition in the Bay of Bengal. Earth and Planetary Science Letters, 2017, 479, 310-321.	4.4	26
83	Ship- and island-based atmospheric soundings from the 2020 EUREC⁴A field campaign. Earth System Science Data, 2021, 13, 491-514.	9.9	26
84	Empirical Correction of XBT Data. Journal of Atmospheric and Oceanic Technology, 2012, 29, 960-973.	1.3	24
85	Trends of Ocean Acidification and pCO₂ in the Northern North Sea, 2003â€“2015. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3088-3103.	3.0	24
86	Dissolved iron in the North Atlantic Ocean and Labrador Sea along the GEOVIDE section (GEOTRACES) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.3	24
87	A high-resolution simulation of the ocean during the POMME experiment: Simulation results and comparison with observations. Journal of Geophysical Research, 2005, 110, .	3.3	23
88	Impact of the subtropical mode water biogeochemical properties on primary production in the North Atlantic: New insights from an idealized model study. Journal of Geophysical Research, 2009, 114, .	3.3	23
89	XBT Temperature Errors during French Research Cruises (1999â€“2007). Journal of Atmospheric and Oceanic Technology, 2009, 26, 2462-2473.	1.3	23
90	Variations of the tropical Atlantic and Pacific SSS minimum zones and their relations to the ITCZ and SPCZ rain bands (1979-2009). Journal of Geophysical Research: Oceans, 2015, 120, 5090-5100.	2.6	23

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91	The CORA 5.2 dataset for global in situ temperature and salinity measurements: data description and validation. Ocean Science, 2019, 15, 1601-1614.	3.4	22
92	Sea Surface Salinity Observations with Lagrangian Drifters in the Tropical North Atlantic During SPURS: Circulation, Fluxes, and Comparisons with Remotely Sensed Salinity from Aquarius. Oceanography, 2015, 28, 96-105.	1.0	22
93	Mechanisms and spatial variability of meso scale frontogenesis in the northwestern subpolar gyre. Ocean Modelling, 2011, 39, 97-113.	2.4	21
94	An international intercomparison of stable carbon isotope composition measurements of dissolved inorganic carbon in seawater. Limnology and Oceanography: Methods, 2019, 17, 200-209.	2.0	21
95	Eastern North Atlantic Mode Waters during POMME (September 2000â€“2001). Journal of Geophysical Research, 2005, 110, .	3.3	20
96	The Aeroclipper: A New Device to Explore Convective Systems and Cyclones. Bulletin of the American Meteorological Society, 2009, 90, 63-72.	3.3	20
97	Precipitation Estimates from SMOS Seaâ€Surface Salinity. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 103-119.	2.7	20
98	Sections in the western Indian oceanâ€”variability in the temperature structure. Deep-sea Research Part A, Oceanographic Research Papers, 1987, 34, 601-626.	1.5	19
99	Vertical Structure of the Seasonal Cycle in the Central Equatorial Atlantic Ocean: XBT Sections from 1980 to 1988. Journal of Physical Oceanography, 1991, 21, 277-291.	1.7	19
100	Vertically Propagating Annual and Interannual Variability in an OGCM Simulation of the Tropical Pacific Ocean in 1985â€“94. Journal of Physical Oceanography, 2000, 30, 1562-1581.	1.7	19
101	Hydrography and flow in the Lucky Strike segment of the Mid-Atlantic Ridge. Journal of Marine Research, 2008, 66, 347-372.	0.3	19
102	Mesoscale and diel to monthly variability of CO₂ and carbon fluxes at the ocean surface in the northeastern Atlantic. Journal of Geophysical Research, 2009, 114, .	3.3	19
103	Evaluation of Drifter Salinities in the Subtropical North Atlantic. Journal of Atmospheric and Oceanic Technology, 2015, 32, 185-192.	1.3	19
104	Fingerprinting Northeast Atlantic water masses using neodymium isotopes. Geochimica Et Cosmochimica Acta, 2017, 210, 267-288.	3.9	19
105	Extension of the prognostic model of sea surface temperature to rainâ€induced cool and fresh lenses. Journal of Geophysical Research: Oceans, 2017, 122, 484-507.	2.6	19
106	Properties of surface water masses in the Laptev and the East Siberian seas in summer 2018 from in situ and satellite data. Ocean Science, 2021, 17, 221-247.	3.4	18
107	Poleward propagation of spiciness anomalies in the North Atlantic Ocean. Geophysical Research Letters, 2006, 33, .	4.0	17
108	Surface Salinity Measurementsâ€”COSMOS 2005 Experiment in the Bay of Biscay. Journal of Atmospheric and Oceanic Technology, 2007, 24, 1643-1654.	1.3	17

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109	Remote Sensing of Sea Surface Salinity From CAROLS L-Band Radiometer in the Gulf of Biscay. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1703-1715.	6.3	17
110	Surface Salinity in the North Atlantic Subtropical Gyre During the STRASSE/SPURS Summer 2012 Cruise. Oceanography, 2015, 28, 114-123.	1.0	17
111	A Framework to Study Mixing Processes in the Marine Boundary Layer Using Water Vapor Isotope Measurements. Geophysical Research Letters, 2018, 45, 2524-2532.	4.0	17
112	Formation and Evolution of a Freshwater Plume in the Northwestern Tropical Atlantic in February 2020. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016981.	2.6	17
113	Acoustic Doppler current profiling along the Pacific Equator from 95Â°W to 165Â°E. Geophysical Research Letters, 1992, 19, 913-916.	4.0	16
114	Chapter 4.3 The tropical ocean circulation. International Geophysics, 2001, 77, 215-246.	0.6	16
115	A synthesis of the first GARP Globa Experiment (FGGE) in the equatorial Atlantic Ocean. Progress in Oceanography, 1986, 16, 91-112.	3.2	15
116	Contribution of Horizontal Advection to the Interannual Variability of Sea Surface Temperature in the North Atlantic. Journal of Physical Oceanography, 2003, 33, 964-978.	1.7	15
117	A direct estimate of poleward volume, heat, and freshwater fluxes at 59.5Â°N between Greenland and Scotland. Journal of Geophysical Research: Oceans, 2017, 122, 5870-5887.	2.6	15
118	Interannual Variability of the Mixed Layer Winter Convection and Spice Injection in the Eastern Subtropical North Atlantic. Journal of Physical Oceanography, 2015, 45, 504-525.	1.7	14
119	Controls on the water vapor isotopic composition near the surface of tropical oceans and role of boundary layer mixing processes. Atmospheric Chemistry and Physics, 2019, 19, 12235-12260.	4.9	14
120	Temperature Measurements from Surface Drifters. Journal of Atmospheric and Oceanic Technology, 2010, 27, 1403-1409.	1.3	13
121	The role of phytoplankton dynamics in the seasonal and interannual variability of carbon in the subpolar North Atlantic â€“ a modeling study. Geoscientific Model Development, 2012, 5, 683-707.	3.6	13
122	Anthropogenic carbon changes in the Irminger Basin (1981â€“2006): Coupling Î´13CDIC and DIC observations. Journal of Marine Systems, 2013, 126, 24-32.	2.1	13
123	Freshwater from the Bay of Biscay shelves in 2009. Journal of Marine Systems, 2013, 109-110, S134-S143.	2.1	13
124	Low-frequency thermohaline variability in the Subtropical South Atlantic pycnocline during 2002-2013. Geophysical Research Letters, 2014, 41, 6468-6475.	4.0	13
125	Sea surface temperature and salinity from French research vessels, 2001â€“2013. Scientific Data, 2015, 2, 150054.	5.3	13
126	Composition of freshwater in the spring of 2014 on the southern Labrador shelf and slope. Journal of Geophysical Research: Oceans, 2017, 122, 1102-1121.	2.6	13

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127	Deep Currents in the Rift Valley of the North Mid-Atlantic Ridge. Frontiers in Marine Science, 2019, 6, .	2.5	13
128	Wintertime fCO₂ Variability in the Subpolar North Atlantic Since 2004. Geophysical Research Letters, 2019, 46, 1580-1590.	4.0	13
129	Convergence in the equatorial surface jets of the Indian Ocean. Journal of Geophysical Research, 1985, 90, 11741-11750.	3.3	12
130	Modeled surface dynamic height in 1964â€“1984: An effort to assess how well the low frequencies in the equatorial Atlantic were sampled in 1982â€“1984. Journal of Geophysical Research, 1987, 92, 1899-1913.	3.3	12
131	A high-resolution simulation of the ocean during the POMME experiment: Mesoscale variability and near surface processes. Journal of Geophysical Research, 2007, 112, .	3.3	12
132	Intense and Small Freshwater Pools From Rainfall Investigated During Spursâ€2 on 9 November 2017 in the Eastern Tropical Pacific. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015558.	2.6	12
133	Surpact: A SMOS Surface Wave Rider for Air-Sea Interaction. Oceanography, 2013, 26, 48-57.	1.0	12
134	Wintertime process study of the North Brazil Current rings reveals the region as a larger sink for CO₂ than expected. Biogeosciences, 2022, 19, 2969-2988.	3.3	12
135	A 1 year sea surface heat budget in the northeastern Atlantic basin during the POMME experiment: 2. Flux optimization. Journal of Geophysical Research, 2005, 110, .	3.3	11
136	Sea Surface Salinity and Temperature Budgets in the North Atlantic Subtropical Gyre during SPURS Experiment: August 2012-August 2013. Frontiers in Marine Science, 2015, 2, .	2.5	11
137	Observation of the surface horizontal thermohaline variability at mesoscale to submesoscale in the northâ€eastern subtropical <scp>A</scp>tlantic <scp>O</scp>cean. Journal of Geophysical Research: Oceans, 2015, 120, 2588-2600.	2.6	11
138	Spatial and seasonal distributions of frontal activity over the French continental shelf in the Bay of Biscay. Continental Shelf Research, 2017, 144, 65-79.	1.8	11
139	North Atlantic extratropical and subpolar gyre variability during the last 120Âyears: a gridded dataset of surface temperature, salinity, and density. Part 1: dataset validation and RMS variability. Ocean Dynamics, 2019, 69, 385-403.	2.2	11
140	Ocean carbonate system variability in the North Atlantic Subpolar surface water (1993â€“2017). Biogeosciences, 2020, 17, 2553-2577.	3.3	11
141	Objective Analysis of SMOS and SMAP Sea Surface Salinity to Reduce Large-Scale and Time-Dependent Biases from Low to High Latitudes. Journal of Atmospheric and Oceanic Technology, 2021, 38, 405-421.	1.3	11
142	Objective analysis of simulated equatorial Atlantic Ocean data on seasonal time scales. Deep-sea Research Part A, Oceanographic Research Papers, 1984, 31, 551-569.	1.5	10
143	Ventilation of the Atlantic Ocean equatorial thermocline. Journal of Geophysical Research, 1993, 98, 16289-16310.	3.3	10
144	Near real-time analyses of the mesoscale circulation during the POMME experiment. Deep-Sea Research Part I: Oceanographic Research Papers, 2005, 52, 1345-1373.	1.4	10

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145	Variability of sea ice melt and meteoric water input in the surface Labrador Current off Newfoundland. Journal of Geophysical Research: Oceans, 2016, 121, 2841-2855.	2.6	10
146	Editorial: Oceanobs'19: An Ocean of Opportunity. Frontiers in Marine Science, 2019, 6, .	2.5	10
147	Tropical Instability Waves in the Atlantic Ocean: Investigating the Relative Role of Sea Surface Salinity and Temperature From 2010 to 2018. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016641.	2.6	10
148	Ice Shelf Basal Melt and Influence on Dense Water Outflow in the Southern Weddell Sea. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015710.	2.6	10
149	Free Drifting Buoy Measurements in the Indian Ocean Equatorial Jet. Elsevier Oceanography Series, 1983, , 99-120.	0.1	9
150	Validation of Salinity Data from Surface Drifters. Journal of Atmospheric and Oceanic Technology, 2014, 31, 967-983.	1.3	9
151	A New Platform for the Determination of Airâ€“Sea Fluxes (OCARINA): Overview and First Results. Journal of Atmospheric and Oceanic Technology, 2014, 31, 1043-1062.	1.3	9
152	North Atlantic subpolar gyre along predetermined ship tracks since 1993: a monthly data set of surface temperature, salinity, and density. Earth System Science Data, 2018, 10, 1403-1415.	9.9	9
153	Heat budget of the tropical Atlantic Oceanâ€"seasonal upwellings. Deep-sea Research Part A, Oceanographic Research Papers, 1985, 32, 363-368.	1.5	8
154	Nearâ€“Sea Surface Temperature Stratification from SVP Drifters. Journal of Atmospheric and Oceanic Technology, 2013, 30, 1867-1883.	1.3	8
155	Heat and Mass Budgets of the Warm Upper Layer of the Tropical Atlantic Ocean in 1979â€“99. Journal of Physical Oceanography, 2004, 34, 903-919.	1.7	7
156	A Long-Lasting Mode Water Vortex in the Northeast Atlantic Ocean. Journal of Physical Oceanography, 2009, 39, 536-558.	1.7	7
157	The seasonal cycle of Î´³C_{DIC} in the North Atlantic subpolar gyre. Biogeosciences, 2014, 11, 1683-1692.	3.3	7
158	Advances in reconstructing the AMOC using sea surface observations of salinity. Climate Dynamics, 2020, 55, 975-992.	3.8	7
159	Variability of Satellite Sea Surface Salinity Under Rainfall. Advances in Global Change Research, 2020, , 1155-1176.	1.6	7
160	Summer trends and drivers of sea surface fCO₂ and pH changes observed in the southern Indian Ocean over the last two decades (1998â€“2019). Biogeosciences, 2022, 19, 2599-2625.	3.3	7
161	The Dynamical Structure of the Planetary Boundary Layer over the Arabian Sea, as Deduced from Constant-Level Balloon Trajectories. Journals of the Atmospheric Sciences, 1983, 40, 1435-1452.	1.7	6
162	Zonal slope variability of the tropical Indian Ocean studied from Seasat altimetry. Marine Geodesy, 1986, 10, 53-68.	2.0	6

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163	Summertime modification of surface fronts in the North Atlantic subpolar gyre. Journal of Geophysical Research, 2011, 116, .	3.3	6
164	The CISE-LOCEAN seawater isotopic database (1998â€“2021). Earth System Science Data, 2022, 14, 2721-2735.	9.9	6
165	Objective analysis of thermocline depth distributions obtained in the tropical Atlantic ocean during FGGE, 1979. Deep-sea Research Part A, Oceanographic Research Papers, 1986, 33, 43-53.	1.5	5
166	Variability of the Azores Current during Octoberâ€“December 1993. Journal of Marine Systems, 2001, 29, 101-123.	2.1	5
167	A Statistical Method for Correcting Salinity Observations from Autonomous Profiling Floats: An ARGO Perspective. Journal of Atmospheric and Oceanic Technology, 2005, 22, 292-301.	1.3	5
168	Finescale parameterizations of energy dissipation in a region of strong internal tides and sheared flow, the Lucky-Strike segment of the Mid-Atlantic Ridge. Deep-Sea Research Part I: Oceanographic Research Papers, 2016, 112, 79-93.	1.4	5
169	Airâ€Sea Turbulent Fluxes From a Waveâ€Following Platform During Six Experiments at Sea. Journal of Geophysical Research: Oceans, 2019, 124, 4290-4321.	2.6	5
170	Sources and Distribution of Fresh Water Around Cape Farewell in 2014. Journal of Geophysical Research: Oceans, 2019, 124, 9404-9416.	2.6	5
171	Improved Statistical Method for Quality Control of Hydrographic Observations. Journal of Atmospheric and Oceanic Technology, 2020, 37, 789-806.	1.3	5
172	SURATLANT: a 1993â€“2017 surface sampling in the central part of the North Atlantic subpolar gyre. Earth System Science Data, 2018, 10, 1901-1924.	9.9	5
173	Temperature variations in the Equatorial Atlantic as revealed by drifting buoys. Geophysical Research Letters, 1984, 11, 791-794.	4.0	4
174	Sea level from temperature profiles in the tropical Pacific Ocean, 1975-1982. Journal of Geophysical Research, 1996, 101, 18105-18119.	3.3	4
175	Combined Airborne Radio-instruments for Ocean and Land Studies (CAROLS). , 2008, , .		4
176	The Tropical Ocean Circulation and Dynamics. International Geophysics, 2013, 103, 385-412.	0.6	4
177	Nutrients in mode waters of the northeast Atlantic. Journal of Geophysical Research, 2009, 114, .	3.3	3
178	Satellite and In Situ Sampling Mismatches: Consequences for the Estimation of Satellite Sea Surface Salinity Uncertainties. Remote Sensing, 2022, 14, 1878.	4.0	3
179	Upper ocean temperature and salinity sections in the South Atlantic in 1911. Journal of Geophysical Research, 1996, 101, 6361-6376.	3.3	2
180	Current Systems in the Indian Ocean. , 2001, , 728-734.		2

#	Article	IF	Citations
181	CAROLS campaigns 2009: First Results. , 2010, , .		2
182	Sea surface salinity as measured by SMOS and by surface autonomous drifters. , 2012, , .		2
183	Freshened from the south. Nature Geoscience, 2014, 7, 783-784.	12.9	2
184	Interannual displacements of convection and surface circulation over the equatorial Indian Ocean. Quarterly Journal of the Royal Meteorological Society, 1986, 112, 43-67.	2.7	2
185	A Nonlinear Statistical Model of Turbulent Airâ€"Sea Fluxes. Monthly Weather Review, 2007, 135, 1077-1089.	1.4	1
186	Combined Airborne Radio-instruments for Ocean and Land Studies (CAROLS). , 2008, , .		1
187	Inâ€air oneâ€point calibration of oxygen optodes in underway systems. Limnology and Oceanography: Methods, 2021, 19, 293-302.	2.0	1
188	Monitoring and Interpreting Mid-Latitude Oceans by Satellite Altimetry. , 2017, , 211-230.		1
189	Sea surface salinity signatures of tropical instability waves: New evidences from SMOS. , 2014, , .		0
190	Progress in Ocean Salinity Science. Eos, 2019, 100, .	0.1	0