# James A Carton

List of Publications by Year
in descending order

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|---|---|---|---|
| 120 papers | 10,548 citations | 66343 42 h-index | 33894 99 g-index |
| 122 all docs | 122 docs citations | 122 times ranked | 9341 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The Community Climate System Model Version 3 (CCSM3). Journal of Climate, 2006, 19, 2122-2143. | 3.2 | 2,075 |
| 2 | A Reanalysis of Ocean Climate Using Simple Ocean Data Assimilation (SODA). Monthly Weather Review, 2008, 136, 2999-3017. | 1.4 | 1,558 |
| 3 | A Simple Ocean Data Assimilation Analysis of the Global Upper Ocean 1950â€“95. Part I: Methodology. Journal of Physical Oceanography, 2000, 30, 294-309. | 1.7 | 569 |
| 4 | SODA3: A New Ocean Climate Reanalysis. Journal of Climate, 2018, 31, 6967-6983. | 3.2 | 349 |
| 5 | Satellite evidence of hurricane-induced phytoplankton blooms in an oceanic desert. Journal of Geophysical Research, 2004, 109, . | 3.3 | 282 |
| 6 | A verification framework for interannual-to-decadal predictions experiments. Climate Dynamics, 2013, 40, 245-272. | 3.8 | 254 |
| 7 | A Simple Ocean Data Assimilation Analysis of the Global Upper Ocean 1950â€“95. Part II: Results. Journal of Physical Oceanography, 2000, 30, 311-326. | 1.7 | 246 |
| 8 | Decadal and Interannual SST Variability in the Tropical Atlantic Ocean. Journal of Physical Oceanography, 1996, 26, 1165-1175. | 1.7 | 233 |
| 9 | Tropical Atlantic Variability: Patterns, Mechanisms, and Impacts. Geophysical Monograph Series, 0, , 121-142. | 0.1 | 219 |
| 10 | Sea level rise and the warming of the oceans in the Simple Ocean Data Assimilation (SODA) ocean reanalysis. Journal of Geophysical Research, 2005, 110, . | 3.3 | 214 |
| 11 | Climate Fluctuations of Tropical Coupled Systemsâ€”The Role of Ocean Dynamics. Journal of Climate, 2006, 19, 5122-5174. | 3.2 | 203 |
| 12 | On the representation error in data assimilation. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 1257-1278. | 2.7 | 202 |
| 13 | Warm Events in the Tropical Atlantic. Journal of Physical Oceanography, 1994, 24, 888-903. | 1.7 | 200 |
| 14 | Structure of Interannual-to-Decadal Climate Variability in the Tropical Atlantic Sector. Journal of Climate, 2000, 13, 3285-3297. | 3.2 | 180 |
| 15 | A New Model of the Oceanic Evaporation Duct. Journal of Applied Meteorology and Climatology, 1997, 36, 193-204. | 1.7 | 143 |
| 16 | Seasonal mixed layer heat budget of the tropical Atlantic Ocean. Journal of Geophysical Research, 2003, 108, . | 3.3 | 139 |
| 17 | Distinguishing the Roles of Natural and Anthropogenically Forced Decadal Climate Variability. Bulletin of the American Meteorological Society, 2011, 92, 141-156. | 3.3 | 125 |
| 18 | Haline hurricane wake in the Amazon/Orinoco plume: AQUARIUS/SACD and SMOS observations. Geophysical Research Letters, 2012, 39, . | 4.0 | 107 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Removing Spurious Low-Frequency Variability in Drifter Velocities. Journal of Atmospheric and Oceanic Technology, 2013, 30, 353-360. | 1.3 | 92 |
| 20 | Ocean response to volcanic eruptions in <scp>C</scp>oupled <scp>M</scp>odel <scp>I</scp>ntercomparison <scp>P</scp>roject 5 simulations. Journal of Geophysical Research: Oceans, 2014, 119, 5622-5637. | 2.6 | 90 |
| 21 | Matching ASCAT and QuikSCAT winds. Journal of Geophysical Research, 2012, 117, . | 3.3 | 84 |
| 22 | Variability of the Oceanic Mixed Layer, 1960â€“2004. Journal of Climate, 2008, 21, 1029-1047. | 3.2 | 83 |
| 23 | On the Rapid Intensification of Hurricane Wilma (2005). Part I: Model Prediction and Structural Changes. Weather and Forecasting, 2011, 26, 885-901. | 1.4 | 81 |
| 24 | A real-time dynamical forecast of ocean synoptic/mesoscale eddies. Nature, 1984, 309, 781-783. | 27.8 | 80 |
| 25 | Caribbean Sea eddies inferred from TOPEX/POSEIDON altimetry and a 1/6Â° Atlantic Ocean model simulation. Journal of Geophysical Research, 1999, 104, 7743-7752. | 3.3 | 71 |
| 26 | Global Decadal Upper-Ocean Heat Content as Viewed in Nine Analyses. Journal of Climate, 2008, 21, 6015-6035. | 3.2 | 70 |
| 27 | Annual cycle of sea surface temperature in the tropical Atlantic Ocean. Journal of Geophysical Research, 1997, 102, 27813-27824. | 3.3 | 66 |
| 28 | 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 |
| 29 | A Hybrid Global Ocean Data Assimilation System at NCEP. Monthly Weather Review, 2015, 143, 4660-4677. | 1.4 | 64 |
| 30 | Near surface westerly wind jet in the Atlantic ITCZ. Geophysical Research Letters, 2003, 30, . | 4.0 | 61 |
| 31 | Seasonal Climate of the Tropical Atlantic Sector in the NCAR Community Climate System Model 3: Error Structure and Probable Causes of Errors. Journal of Climate, 2007, 20, 1053-1070. | 3.2 | 61 |
| 32 | Seasonal salt budget of the northwestern tropical Atlantic Ocean along 38Â°W. Journal of Geophysical Research, 2004, 109, . | 3.3 | 58 |
| 33 | Tropical Atlantic Biases in CCSM4. Journal of Climate, 2012, 25, 3684-3701. | 3.2 | 58 |
| 34 | Interannual and Decadal Variability in the Tropical and Midlatitude Pacific Ocean. Journal of Climate, 1999, 12, 3402-3418. | 3.2 | 56 |
| 35 | Forecast Model Bias Correction in Ocean Data Assimilation. Monthly Weather Review, 2005, 133, 1328-1342. | 1.4 | 54 |
| 36 | Variability of upwelling and chlorophyll in the equatorial Atlantic. Geophysical Research Letters, 2008, 35, . | 4.0 | 53 |

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| 37 | Intercomparison and validation of continental water level products derived from satellite radar altimetry. Journal of Applied Remote Sensing, 2012, 6, 061710. | 1.3 | 53 |
| 38 | GEOSâ€S2S Version 2: The GMAO Highâ€Resolution Coupled Model and Assimilation System for Seasonal Prediction. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031767. | 3.3 | 52 |
| 39 | Tropical instability waves at 0Â°N, 23Â°W in the Atlantic: A case study using Pilot Research Moored Array in the Tropical Atlantic (PIRATA) mooring data. Journal of Geophysical Research, 2005, 110, . | 3.3 | 48 |
| 40 | Coupled land/atmosphere interactions in the West African Monsoon. Geophysical Research Letters, 2001, 28, 1503-1506. | 4.0 | 46 |
| 41 | Intraseasonal Latent Heat Flux Based on Satellite Observations. Journal of Climate, 2009, 22, 4539-4556. | 3.2 | 46 |
| 42 | Spurious trends in global surface drifter currents. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 46 |
| 43 | Temperature and Salinity Variability in the SODA3, ECCO4r3, and ORAS5 Ocean Reanalyses, 1993â€“2015. Journal of Climate, 2019, 32, 2277-2293. | 3.2 | 46 |
| 44 | The Intertropical Convergence Zone in the South Atlantic and the Equatorial Cold Tongue. Journal of Climate, 2003, 16, 723-733. | 3.2 | 46 |
| 45 | The Seasonal Cycle in Coupled Ocean-Atmosphere Model. Journal of Climate, 1994, 7, 1208-1217. | 3.2 | 44 |
| 46 | The 1918/19 El NiÃ±o. Bulletin of the American Meteorological Society, 2010, 91, 177-183. | 3.3 | 44 |
| 47 | Annual and Interannual Variation of the Freshwater Budget in the Tropical Atlantic Ocean and the Caribbean Sea. Journal of Physical Oceanography, 1990, 20, 831-845. | 1.7 | 41 |
| 48 | Impact of altimeter, thermistor, and expendable bathythermograph data on retrospective analyses of the tropical Pacific Ocean. Journal of Geophysical Research, 1996, 101, 14147-14159. | 3.3 | 41 |
| 49 | Role of the Atmosphere in Climate Variability of the Tropical Atlantic. Journal of Climate, 2003, 16, 2052-2065. | 3.2 | 41 |
| 50 | Spaceâ€Based Observations for Understanding Changes in the Arcticâ€Boreal Zone. Reviews of Geophysics, 2020, 58, e2019RG000652. | 23.0 | 39 |
| 51 | Dynamical Forecasting and Dynamical Interpolation: An Experiment in the California Current. Journal of Physical Oceanography, 1986, 16, 1561-1579. | 1.7 | 37 |
| 52 | Effect of seasonal surface freshwater flux on sea surface temperature in the tropical Atlantic Ocean. Journal of Geophysical Research, 1991, 96, 12593-12598. | 3.3 | 36 |
| 53 | Annual Cycle and ENSO in a Coupled Oceanâ€“Atmosphere General Circulation Model. Monthly Weather Review, 1997, 125, 680-702. | 1.4 | 36 |
| 54 | Comparative analysis of classification algorithms and multiple sensor data for land use/land cover classification in the Brazilian Amazon. Journal of Applied Remote Sensing, 2012, 6, 061706. | 1.3 | 36 |

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|---|---|---|---|
| 55 | A Global Survey of Ocean-Atmosphere Interaction and Climate Variability. Geophysical Monograph Series, 0, , 1-19. | 0.1 | 35 |
| 56 | Observed Subseasonal Variability of Oceanic Barrier and Compensated Layers. Journal of Climate, 2009, 22, 6104-6119. | 3.2 | 34 |
| 57 | The variation with frequency of the longâ€period tides. Journal of Geophysical Research, 1983, 88, 7563-7571. | 3.3 | 33 |
| 58 | Modelling the pole tide and its effect on the Earth's rotation. Geophysical Journal International, 1986, 84, 121-137. | 2.4 | 33 |
| 59 | Estimates of the zonal slope and seasonal transport of the Atlantic North Equatorial Countercurrent. Journal of Geophysical Research, 1990, 95, 3091-3100. | 3.3 | 33 |
| 60 | Sea level variability in the eastern tropical Pacific as observed by TOPEX and Tropical Ocean-Global Atmosphere Tropical Atmosphere-Ocean Experiment. Journal of Geophysical Research, 1994, 99, 24739. | 3.3 | 33 |
| 61 | Progress and Prospects of U.S. Data Assimilation in Ocean Research. Oceanography, 2006, 19, 172-183. | 1.0 | 33 |
| 62 | Spatial Dependence of the Relationship between Rainfall and Outgoing Longwave Radiation in the Tropical Atlantic. Journal of Climate, 1988, 1, 1047-1054. | 3.2 | 31 |
| 63 | A Numerical Simulation of the Variability in the Tropical Atlantic Ocean, 1980â€“88. Journal of Physical Oceanography, 1995, 25, 835-854. | 1.7 | 31 |
| 64 | A curious local surface salinity maximum in the northwestern tropical Atlantic. Journal of Geophysical Research: Oceans, 2014, 119, 484-495. | 2.6 | 31 |
| 65 | Interannual to decadal variability of Atlantic Water in the Nordic and adjacent seas. Journal of Geophysical Research, 2011, 116, . | 3.3 | 29 |
| 66 | Does direct impact of SST on short wind waves matter for scatterometry?. Geophysical Research Letters, 2012, 39, . | 4.0 | 29 |
| 67 | The seasonal cycle of the Arctic Ocean under climate change. Geophysical Research Letters, 2015, 42, 7681-7686. | 4.0 | 29 |
| 68 | Data Assimilation Applied to the Temperature and Circulation in the Tropical Atlantic, 1983â€“84. Journal of Physical Oceanography, 1990, 20, 1150-1165. | 1.7 | 28 |
| 69 | Anomalous surface currents in the tropical Indian Ocean. Geophysical Research Letters, 2001, 28, 4207-4210. | 4.0 | 28 |
| 70 | The local ensemble transform Kalman filter and the running-in-place algorithm applied to a global ocean general circulation model. Nonlinear Processes in Geophysics, 2013, 20, 1031-1046. | 1.3 | 27 |
| 71 | Tropical instability vortices in the Atlantic Ocean. Journal of Geophysical Research, 2004, 109, . | 3.3 | 26 |
| 72 | Subarctic and Arctic sea surface temperature and its relation to ocean heat content 1982â€“2010. Journal of Geophysical Research, 2012, 117, . | 3.3 | 26 |

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| 73 | Compatibility of C- and Ku-band scatterometer winds: ERS-2 and QuikSCAT. Journal of Marine Systems, 2013, 117-118, 72-80. | 2.1 | 26 |
| 74 | From Salty to Freshâ€"Salinity Processes in the Upper-ocean Regional Study-2 (SPURS-2): Diagnosing the Physics of a Rainfall-Dominated Salinity Minimum. Oceanography, 2015, 28, 150-159. | 1.0 | 26 |
| 75 | Climatological Annual Cycle of the Salinity Budgets of the Subtropical Maxima. Journal of Physical Oceanography, 2016, 46, 2981-2994. | 1.7 | 26 |
| 76 | Global linkages originating from decadal oceanic variability in the subpolar North Atlantic. Geophysical Research Letters, 2016, 43, 10,909. | 4.0 | 25 |
| 77 | Interannual surface salinity on <scp>N</scp>orthwest <scp>A</scp>tlantic shelf. Journal of Geophysical Research: Oceans, 2017, 122, 3638-3659. | 2.6 | 25 |
| 78 | Improved Global Net Surface Heat Flux. Journal of Geophysical Research: Oceans, 2018, 123, 3144-3163. | 2.6 | 25 |
| 79 | Intense surface currents in the tropical Pacific during 1996-1998. Journal of Geophysical Research, 2001, 106, 16673-16684. | 3.3 | 24 |
| 80 | Low frequency variation of sea surface salinity in the tropical Atlantic. Geophysical Research Letters, 2006, 33, . | 4.0 | 24 |
| 81 | Sea level in ocean reanalyses and tide gauges. Journal of Geophysical Research: Oceans, 2014, 119, 147-155. | 2.6 | 24 |
| 82 | Observational Needs for Improving Ocean and Coupled Reanalysis, S2S Prediction, and Decadal Prediction. Frontiers in Marine Science, 2019, 6, 391. | 2.5 | 24 |
| 83 | Estimates of sea level in the tropical Atlantic Ocean using Geosat altimetry. Journal of Geophysical Research, 1989, 94, 8029-8039. | 3.3 | 22 |
| 84 | Origin of the Springtime Westerly Bias in Equatorial Atlantic Surface Winds in the Community Atmosphere Model Version 3 (CAM3) Simulation. Journal of Climate, 2008, 21, 4766-4778. | 3.2 | 21 |
| 85 | Long waves and eddies in the tropical Atlantic Ocean: 1984â€"1990. Journal of Geophysical Research, 1991, 96, 15161-15171. | 3.3 | 20 |
| 86 | Coastal Circulation Caused by an Isolated Storm. Journal of Physical Oceanography, 1984, 14, 114-124. | 1.7 | 19 |
| 87 | Surface drifter pathways originating in the equatorial Atlantic cold tongue. Geophysical Research Letters, 2002, 29, 62-1-62-4. | 4.0 | 18 |
| 88 | Climatic Effects on Lake Basins. Part I: Modeling Tropical Lake Levels. Journal of Climate, 2011, 24, 2983-2999. | 3.2 | 18 |
| 89 | Gravity and the hydrosphere: new frontier. Hydrological Sciences Journal, 1999, 44, 407-415. | 2.6 | 17 |
| 90 | How Predictable are the Geostrophic Currents in the Recirculation Zone of the North Atlantic?. Journal of Physical Oceanography, 1987, 17, 751-762. | 1.7 | 16 |

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| 91 | Latent Heat Flux and Interannual Variability of the Coupled Atmosphereâ€“Ocean System. Journals of the Atmospheric Sciences, 1998, 55, 494-501. | 1.7 | 16 |
| 92 | Use of breeding to detect and explain instabilities in the global ocean. Geophysical Research Letters, 2009, 36, . | 4.0 | 16 |
| 93 | Comparison of bulk sea surface and mixed layer temperatures. Journal of Geophysical Research, 2008, 113, . | 3.3 | 15 |
| 94 | Application of multi-variate statistical objective analysis to the circulation in the tropical Atlantic ocean. Dynamics of Atmospheres and Oceans, 1989, 13, 491-515. | 1.8 | 14 |
| 95 | Impact of Bathythermograph Temperature Bias Models on an Ocean Reanalysis. Journal of Climate, 2011, 24, 84-93. | 3.2 | 14 |
| 96 | Interannual <scp>C</scp>aribbean salinity in satellite data and model simulations. Journal of Geophysical Research: Oceans, 2015, 120, 1375-1387. | 2.6 | 14 |
| 97 | Estimation of Systematic Errors in the GFS Using Analysis Increments. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1626-1637. | 3.3 | 14 |
| 98 | Delayed and Quasiâ€Synchronous Response of Tropical Atlantic Surface Salinity to Rainfall. Journal of Geophysical Research: Oceans, 2018, 123, 5971-5985. | 2.6 | 14 |
| 99 | Differences between two estimates of air-sea turbulent heat fluxes over the Atlantic Ocean. Journal of Geophysical Research, 2011, 116, . | 3.3 | 13 |
| 100 | SST-forced surface wind variability in the tropical Atlantic: An empirical model. Journal of Geophysical Research, 2002, 107, ACL 4-1. | 3.3 | 12 |
| 101 | Seasonal Heat Budgets of the North Pacific and North Atlantic Oceans. Journal of Physical Oceanography, 2002, 32, 3474-3489. | 1.7 | 12 |
| 102 | Comparison of retrospective analyses of the global ocean heat content. Dynamics of Atmospheres and Oceans, 1999, 29, 119-145. | 1.8 | 11 |
| 103 | Modeling Climate Variability in the Tropical Atlantic Atmosphere. Journal of Climate, 2003, 16, 3858-3876. | 3.2 | 11 |
| 104 | Coastal Upwelling Viewed as a Stochastic Phenomenon. Journal of Physical Oceanography, 1984, 14, 1499-1509. | 1.7 | 10 |
| 105 | Influence of the tropics on the climate of the South Atlantic. Geophysical Research Letters, 2006, 33, . | 4.0 | 10 |
| 106 | Dynamics of the equatorial Atlantic from altimetry. Journal of Geophysical Research, 1995, 100, 25061. | 3.3 | 9 |
| 107 | The hydrography and circulation of the upper 1200 meters in the tropical North Atlantic during 1982â€“91. Journal of Marine Research, 1997, 55, 633-670. | 0.3 | 9 |
| 108 | Detecting historical ocean climate variability. Journal of Geophysical Research, 2012, 117, . | 3.3 | 8 |

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| 109 | Comparison of dynamic height variations in the tropical Atlantic during 1987â€“1989 as viewed in sections Hydrography and Geosat altimetry. Journal of Geophysical Research, 1993, 98, 14369-14377. | 3.3 | 7 |
| 110 | Identifying Low-Dimensional Nonlinear Behavior in Atmospheric Data. Monthly Weather Review, 2001, 129, 2116-2125. | 1.4 | 7 |
| 111 | Seasonal heat and freshwater cycles in the Arctic Ocean in CMIP5 coupled models. Journal of Geophysical Research: Oceans, 2016, 121, 2043-2057. | 2.6 | 7 |
| 112 | See-saw sea. Nature, 1997, 385, 487-489. | 27.8 | 5 |
| 113 | Satellite gravity: insights into the solid Earth and its fluid envelope. Eos, 1998, 79, 237-237. | 0.1 | 5 |
| 114 | What's Next for Salinity?. Oceanography, 2008, 21, 82-85. | 1.0 | 4 |
| 115 | Predictability of the tropical Atlantic Ocean. Journal of Marine Systems, 1991, 1, 299-313. | 2.1 | 3 |
| 116 | Salty anomalies forced by Tehuantepec and Papagayo gap winds: Aquarius observations. Remote Sensing Letters, 2014, 5, 568-574. | 1.4 | 3 |
| 117 | The role of the <scp>I</scp>ndian <scp>O</scp>cean sector for prediction of the coupled <scp>I</scp>ndoâ€<scp>P</scp>acific system: Impact of atmospheric coupling. Journal of Geophysical Research: Oceans, 2017, 122, 2813-2829. | 2.6 | 3 |
| 118 | Secular trend in the near-surface currents of the equatorial Pacific Ocean. Geophysical Research Letters, 2002, 29, 9-1-9-3. | 4.0 | 1 |
| 119 | Towards a High-Resolution Global Coupled Navy Prediction System. , 0, , . | | 0 |
| 120 | Fine-Resolution Global Sea-Ice/Ocean Modeling and Data Assimilation. , 2006, , . | | 0 |