

# HervÃ© Giordani

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

1,874  
citations

331670

21  
h-index

265206

42  
g-index

48  
all docs

48  
docs citations

48  
times ranked

2362  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | The SURFEXv7.2 land and ocean surface platform for coupled or offline simulation of earth surface variables and fluxes. <i>Geoscientific Model Development</i> , 2013, 6, 929-960.                        | 3.6 | 527       |
| 2  | Sensitivity of torrential rain events to the sea surface temperature based on high-resolution numerical forecasts. <i>Journal of Geophysical Research</i> , 2006, 111, .                                  | 3.3 | 104       |
| 3  | Coupling between the Atlantic cold tongue and the West African monsoon in boreal spring and summer. <i>Journal of Geophysical Research</i> , 2011, 116, .   | 3.3 | 102       |
| 4  | The Tropical Atlantic Observing System. <i>Frontiers in Marine Science</i> , 2019, 6, .   | 2.5 | 80        |
| 5  | Multiscale Observations of Deep Convection in the Northwestern Mediterranean Sea During Winter 2012–2013 Using Multiple Platforms. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 1745-1776. | 2.6 | 71        |
| 6  | Advanced insights into sources of vertical velocity in the ocean. <i>Ocean Dynamics</i> , 2006, 56, 513-524.  | 2.2 | 65        |
| 7  | Equatorial upper-ocean dynamics and their interaction with the West African monsoon. <i>Atmospheric Science Letters</i> , 2011, 12, 24-30.  | 1.9 | 63        |
| 8  | PIRATA: A Sustained Observing System for Tropical Atlantic Climate Research and Forecasting. <i>Earth and Space Science</i> , 2019, 6, 577-616.   | 2.6 | 63        |
| 9  | Why Were Sea Surface Temperatures so Different in the Eastern Equatorial Atlantic in June 2005 and 2006?. <i>Journal of Physical Oceanography</i> , 2009, 39, 1416-1431.                                  | 1.7 | 58        |
| 10 | Sensitivity of Cyclogenesis to Sea Surface Temperature in the Northwestern Atlantic. <i>Monthly Weather Review</i> , 2001, 129, 1273-1295.  | 1.4 | 50        |
| 11 | SURFEX v8.0 interface with OASIS3-MCT to couple atmosphere with hydrology, ocean, waves and sea-ice models, from coastal to global scales. <i>Geoscientific Model Development</i> , 2017, 10, 4207-4227.  | 3.6 | 50        |
| 12 | Response of the atmospheric boundary layer to a mesoscale oceanic eddy in the northeast Atlantic. <i>Journal of Geophysical Research</i> , 2004, 109, .   | 3.3 | 43        |
| 13 | Surface fluxes in the North Atlantic current during CATCH/FASTEX. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1999, 125, 3563-3599.  | 2.7 | 40        |
| 14 | Are atmospheric biases responsible for the tropical Atlantic SST biases in the CNRM-CM5 coupled model?. <i>Climate Dynamics</i> , 2014, 43, 2963-2984.  | 3.8 | 33        |
| 15 | HyMeX-SOP2: The Field Campaign Dedicated to Dense Water Formation in the Northwestern Mediterranean. , 2016, 29, 196-206.   |     | 33        |
| 16 | Intraseasonal mixed-layer heat budget in the equatorial Atlantic during the cold tongue development in 2006. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 650-671.                         | 2.6 | 31        |
| 17 | Modeling and Analysis of Ageostrophic Circulation over the Azores Oceanic Front during the SEMAPHORE Experiment. <i>Monthly Weather Review</i> , 2000, 128, 2270-2287.                                    | 1.4 | 28        |
| 18 | High-resolution air-sea coupling impact on two heavy precipitation events in the Western Mediterranean. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 2448-2462.              | 2.7 | 28        |

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|----|--|-----|-----------|
| 19 | Two-way one-dimensional high-resolution air-sea coupled modelling applied to Mediterranean heavy rain events. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 187-204.                     | 2.7 | 27        |
| 20 | Characterization of air-sea exchanges over the Western Mediterranean Sea during HyMeX SOP1 using the AROME-WMED model. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 173-187.            | 2.7 | 27        |
| 21 | Ocean Mixed Layer responses to intense meteorological events during HyMeX-SOP1 from a high-resolution ocean simulation. Ocean Modelling, 2014, 84, 84-103.   | 2.4 | 25        |
| 22 | 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        |
| 23 | A 1 year mesoscale simulation of the northeast Atlantic: Mixed layer heat and mass budgets during the POMME experiment. Journal of Geophysical Research, 2005, 110, .  | 3.3 | 23        |
| 24 | Sensitivity of three Mediterranean heavy rain events to two different sea surface fluxes parameterizations in high-resolution numerical modeling. Journal of Geophysical Research, 2008, 113, .              | 3.3 | 21        |
| 25 | A one-dimensional modeling study of the diurnal cycle in the equatorial Atlantic at the PIRATA buoys during the EGEE-3 campaign. Ocean Dynamics, 2011, 61, 1-20.   | 2.2 | 20        |
| 26 | A Simplified 3D Oceanic Model Assimilating Geostrophic Currents: Application to the POMME Experiment. Journal of Physical Oceanography, 2005, 35, 628-644.   | 1.7 | 18        |
| 27 | A 1 year sea surface heat budget in the northeastern Atlantic basin during the POMME experiment: 1. Flux estimates. Journal of Geophysical Research, 2005, 110, .  | 3.3 | 17        |
| 28 | Dense water formation in the northwestern Mediterranean area during HyMeX-SOP2 in 1/36° ocean simulations: Sensitivity to initial conditions. Journal of Geophysical Research: Oceans, 2016, 121, 5549-5569. | 2.6 | 17        |
| 29 | Diagnosing vertical motion in the Equatorial Atlantic. Ocean Dynamics, 2011, 61, 1995-2018.  | 2.2 | 15        |
| 30 | Summer interactions between weather regimes and surface ocean in the North-Atlantic region. Climate Dynamics, 2010, 34, 527-546.   | 3.8 | 14        |
| 31 | A PV-approach for dense water formation along fronts: Application to the Northwestern Mediterranean. Journal of Geophysical Research: Oceans, 2017, 122, 995-1015.   | 2.6 | 14        |
| 32 | 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        |
| 33 | Effects of the air-sea coupling time frequency on the ocean response during Mediterranean intense events. Ocean Dynamics, 2009, 59, 539-549.   | 2.2 | 12        |
| 34 | Impact of the Mesoscale Dynamics on Ocean Deep Convection: The 2012-2013 Case Study in the Northwestern Mediterranean Sea. Journal of Geophysical Research: Oceans, 2017, 122, 8813-8840.                    | 2.6 | 12        |
| 35 | 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        |
| 36 | Impact of the Ocean Mixed Layer Diurnal Variations on the Intraseasonal Variability of Sea Surface Temperatures in the Atlantic Ocean*. Journal of Climate, 2011, 24, 2889-2914.                             | 3.2 | 11        |

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|----|--|-----|-----------|
| 37 | Main processes of the Atlantic cold tongue interannual variability. <i>Climate Dynamics</i> , 2018, 50, 1495-1512.   | 3.8 | 11        |
| 38 | Dense water formation in the northwestern Mediterranean area during HyMeX-SOP2 in 1/36° ocean simulations: Ocean-atmosphere coupling impact. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 5749-5773.      | 2.6 | 10        |
| 39 | Atmospheric response to sea surface temperature in the eastern equatorial Atlantic at quasi-biweekly time scales. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 1700-1714.                   | 2.7 | 9         |
| 40 | Frontogenesis of the Angola-Benguela Frontal Zone. <i>Ocean Science</i> , 2019, 15, 83-96.   | 3.4 | 9         |
| 41 | Seasonal and Interannual Mixed Layer Heat Budget Variability in the Western Tropical Atlantic From Argo Floats (2007-2012). <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5298-5322.                       | 2.6 | 8         |
| 42 | An inverse method to derive surface fluxes from the closure of oceanic heat and water budgets: Application to the northwestern Mediterranean Sea. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 2884-2908. | 2.6 | 7         |
| 43 | An Eddy Diffusivity Mass Flux Parameterization for Modeling Oceanic Convection. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002078.  | 3.8 | 7         |
| 44 | Lagrangian sources of frontogenesis in the equatorial Atlantic front. <i>Climate Dynamics</i> , 2014, 43, 3147-3162.   | 3.8 | 5         |
| 45 | Assessment of the sea surface temperature diurnal cycle in CNRM-CM6-1 based on its 1D coupled configuration. <i>Geoscientific Model Development</i> , 2022, 15, 3347-3370.   | 3.6 | 1         |