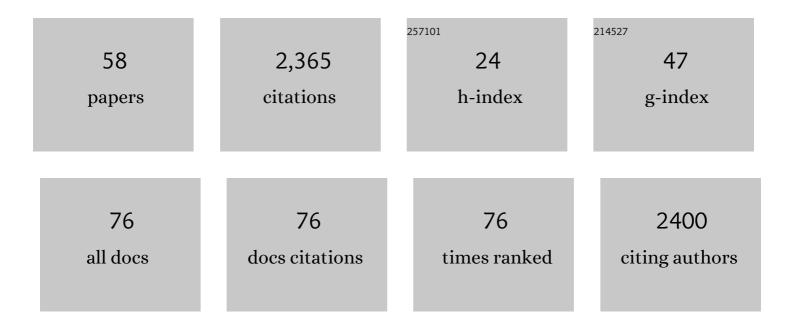
Jonathan Gula

List of Publications by Year in descending order

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ΙΟΝΑΤΗΛΝ ΟΠΙΛ

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Seasonality in submesoscale turbulence. Nature Communications, 2015, 6, 6862. | 5.8 | 242 |
| 2 | Submesoscale Cold Filaments in the Gulf Stream. Journal of Physical Oceanography, 2014, 44, 2617-2643. | 0.7 | 221 |
| 3 | Topographic generation of submesoscale centrifugal instability and energy dissipation. Nature Communications, 2016, 7, 12811. | 5.8 | 156 |
| 4 | Gulf Stream Dynamics along the Southeastern U.S. Seaboard. Journal of Physical Oceanography, 2015, 45, 690-715. | 0.7 | 128 |
| 5 | Smallâ€scale open ocean currents have large effects on wind wave heights. Journal of Geophysical Research: Oceans, 2017, 122, 4500-4517. | 1.0 | 128 |
| 6 | Filament Frontogenesis by Boundary Layer Turbulence. Journal of Physical Oceanography, 2015, 45, 1988-2005. | 0.7 | 109 |
| 7 | Dynamical Downscaling over the Great Lakes Basin of North America Using the WRF Regional Climate Model: The Impact of the Great Lakes System on Regional Greenhouse Warming. Journal of Climate, 2012, 25, 7723-7742. | 1.2 | 98 |
| 8 | Topographic vorticity generation, submesoscale instability and vortex street formation in the Gulf Stream. Geophysical Research Letters, 2015, 42, 4054-4062. | 1.5 | 92 |
| 9 | Control and Stabilization of the Gulf Stream by Oceanic Current Interaction with the Atmosphere. Journal of Physical Oceanography, 2016, 46, 3439-3453. | 0.7 | 75 |
| 10 | Submesoscale Dynamics of a Gulf Stream Frontal Eddy in the South Atlantic Bight. Journal of Physical Oceanography, 2016, 46, 305-325. | 0.7 | 64 |
| 11 | Dampening of Submesoscale Currents by Air-Sea Stress Coupling in the Californian Upwelling System. Scientific Reports, 2018, 8, 13388. | 1.6 | 59 |
| 12 | Using a coupled lake model with WRF for dynamical downscaling. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7193-7208. | 1.2 | 58 |
| 13 | Eddyâ€ŧopography interactions and the fate of the <scp>P</scp> ersian <scp>G</scp> ulf <scp>O</scp> utflow. Journal of Geophysical Research: Oceans, 2015, 120, 6700-6717. | 1.0 | 54 |
| 14 | The Submesoscale Kinetic Energy Cascade: Mesoscale Absorption of Submesoscale Mixed Layer Eddies and Frontal Downscale Fluxes. Journal of Physical Oceanography, 2020, 50, 2573-2589. | 0.7 | 53 |
| 15 | Prospects for future satellite estimation of small-scale variability of ocean surface velocity and vorticity. Progress in Oceanography, 2019, 173, 256-350. | 1.5 | 51 |
| 16 | Climate change impacts on Great Lakes Basin precipitation extremes. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10,799-10,812. | 1.2 | 49 |
| 17 | Dispersion of deep-sea hydrothermal vent effluents and larvae by submesoscale and tidal currents. Deep-Sea Research Part I: Oceanographic Research Papers, 2018, 133, 1-18. | 0.6 | 44 |
| 18 | Submesoscale Coherent Vortices in the Gulf Stream. Geophysical Research Letters, 2019, 46, 2704-2714. | 1.5 | 41 |

Jonathan Gula

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|----|--|-----|-----------|
| 19 | Technical challenges and solutions in representing lakes when using WRF in downscaling applications. Geoscientific Model Development, 2015, 8, 1085-1096. | 1.3 | 39 |
| 20 | Submesoscale cyclones in the Agulhas current. Geophysical Research Letters, 2017, 44, 346-354. | 1.5 | 37 |
| 21 | Effects of the Submesoscale on the Potential Vorticity Budget of Ocean Mode Waters. Journal of Physical Oceanography, 2018, 48, 2141-2165. | 0.7 | 37 |
| 22 | Submesoscale streamers exchange water on the north wall of the Gulf Stream. Geophysical Research Letters, 2016, 43, 1226-1233. | 1.5 | 33 |
| 23 | Coastal upwelling south of Madagascar: Temporal and spatial variability. Journal of Marine Systems, 2018, 178, 29-37. | 0.9 | 30 |
| 24 | Generation of Submesoscale Frontal Eddies in the Agulhas Current. Journal of Geophysical Research: Oceans, 2019, 124, 7606-7625. | 1.0 | 29 |
| 25 | Ageostrophic instabilities of fronts in a channel in a stratified rotating fluid. Journal of Fluid Mechanics, 2009, 627, 485-507. | 1.4 | 24 |
| 26 | The Gulf Stream North Wall: Ageostrophic Circulation and Frontogenesis. Journal of Physical Oceanography, 2019, 49, 893-916. | 0.7 | 23 |
| 27 | Barotropic vorticity balance of the North Atlantic subpolar gyre in an eddy-resolving model. Ocean Science, 2020, 16, 451-468. | 1.3 | 23 |
| 28 | Instabilities of buoyancy-driven coastal currents and their nonlinear evolution in the two-layer rotating shallow-water model. Part 1. Passive lower layer. Journal of Fluid Mechanics, 2010, 659, 69-93. | 1.4 | 21 |
| 29 | North Atlantic Barotropic Vorticity Balances in Numerical Models. Journal of Physical Oceanography, 2016, 46, 289-303. | 0.7 | 21 |
| 30 | The life cycle of submesoscale eddies generated by topographic interactions. Ocean Science, 2019, 15, 1531-1543. | 1.3 | 21 |
| 31 | The Role of Curvature in Modifying Frontal Instabilities. Part I: Review of Theory and Presentation of a Nondimensional Instability Criterion. Journal of Physical Oceanography, 2021, 51, 299-315. | 0.7 | 21 |
| 32 | Instabilities of buoyancy-driven coastal currents and their nonlinear evolution in the two-layer rotating shallow water model. Part 2. Active lower layer. Journal of Fluid Mechanics, 2010, 665, 209-237. | 1.4 | 20 |
| 33 | Oceanic Mesoscale Eddy Depletion Catalyzed by Internal Waves. Geophysical Research Letters, 2021, 48, e2021GL094376. | 1.5 | 19 |
| 34 | Sea Surface Signature of Internal Tides. Geophysical Research Letters, 2019, 46, 3880-3890. | 1.5 | 17 |
| 35 | Uncovering a New Current: The Southwest MAdagascar Coastal Current. Geophysical Research Letters, 2018, 45, 1930-1938. | 1.5 | 16 |
| 36 | Frontal instabilities and waves in a differentially rotating fluid. Journal of Fluid Mechanics, 2011, 685, 532-542. | 1.4 | 15 |

JONATHAN GULA

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|----|--|-----|-----------|
| 37 | (A)geostrophic adjustment of dipolar perturbations, formation of coherent structures and their properties, as follows from high-resolution numerical simulations with rotating shallow water model. Physics of Fluids, 2010, 22, . | 1.6 | 14 |
| 38 | Potential vorticity diagnostics based on balances between volume integral and boundary conditions. Ocean Modelling, 2019, 138, 23-35. | 1.0 | 14 |
| 39 | Instabilities of two-layer shallow-water flows with vertical shear in the rotating annulus. Journal of Fluid Mechanics, 2009, 638, 27-47. | 1.4 | 13 |
| 40 | Deep Currents in the Rift Valley of the North Mid-Atlantic Ridge. Frontiers in Marine Science, 2019, 6, . | 1.2 | 13 |
| 41 | The Role of Curvature in Modifying Frontal Instabilities. Part II: Application of the Criterion to Curved Density Fronts at Low Richardson Numbers. Journal of Physical Oceanography, 2021, 51, 317-341. | 0.7 | 12 |
| 42 | Interaction of the Gulf Stream with small scale topography: a focus on lee waves. Scientific Reports, 2020, 10, 2332. | 1.6 | 12 |
| 43 | Observed Equatorward Propagation and Chimney Effect of Nearâ€Inertial Waves in the Midlatitude Ocean. Geophysical Research Letters, 2022, 49, . | 1.5 | 12 |
| 44 | A Persistent Deep Anticyclonic Vortex in the Rockall Trough Sustained by Anticyclonic Vortices Shed From the Slope Current and Wintertime Convection. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015905. | 1.0 | 10 |
| 45 | Submesoscale flows impact Agulhas leakage in ocean simulations. Communications Earth & Environment, 2021, 2, . | 2.6 | 9 |
| 46 | Why Does the Deep Western Boundary Current "Leak―around Flemish Cap?. Journal of Physical Oceanography, 2020, 50, 1989-2016. | 0.7 | 9 |
| 47 | Internal Tide Cycle and Topographic Scattering Over the North Midâ€Atlantic Ridge. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016376. | 1.0 | 8 |
| 48 | Submesoscale processes and mixing. , 2022, , 181-214. | | 8 |
| 49 | Hydrothermal plumes as hotspots for deep-ocean heterotrophic microbial biomass production. Nature Communications, 2021, 12, 6861. | 5.8 | 7 |
| 50 | Slippery Bottom Boundary Layers: The Loss of Energy From the General Circulation by Bottom Drag. Geophysical Research Letters, 2021, 48, e2021GL094434. | 1.5 | 6 |
| 51 | Oceanic mesoscale cyclones cluster surface Lagrangian material. Geophysical Research Letters, 0, , . | 1.5 | 6 |
| 52 | Foresight Workshop on Advances in Ocean Biological Observations: a sustained system for deep-ocean meroplankton. Research Ideas and Outcomes, 0, 6, . | 1.0 | 5 |
| 53 | The influence of merger and convection on an anticyclonic eddy trapped in a bowl. Ocean Modelling, 2021, 167, 101874. | 1.0 | 4 |
| 54 | Effects of Mesoscale Dynamics on the Path of Fast‣inking Particles to the Deep Ocean: A Modeling Study. Journal of Geophysical Research: Oceans, 2022, 127, . | 1.0 | 4 |

Jonathan Gula

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Mesoscale Eddy Kinetic Energy Budgets and Transfers between Vertical Modes in the Agulhas Current. Journal of Physical Oceanography, 2022, 52, 677-704. | 0.7 | 3 |
| 56 | Bottom Mixing Enhanced by Tropical Stormâ€Generated Nearâ€Inertial Waves Entering Critical Layers in the Straits of Florida. Geophysical Research Letters, 2021, 48, e2021GL093773. | 1.5 | 1 |
| 57 | The Interaction of Two Unsteady Point Vortex Sources in a Deformation Field in 2D Incompressible Flows. Regular and Chaotic Dynamics, 2021, 26, 618-646. | 0.3 | 1 |
| 58 | Eady Baroclinic Instability of a Circular Vortex. Symmetry, 2022, 14, 1438. | 1.1 | 0 |