

ATS/CIRA Colloquium

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Submesoscales and Mixed Layer Eddies

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ATS room 101; Discussion will begin at 3:30pm

Refreshments will be served at 3:00pm in the coffee lounge

Oceanographers have traditionally viewed turbulence in two categories--fine scale and mesoscale--the fine scale turbulence being three-dimensional and effective at mixing across density classes while mesoscale turbulence is quasi-two-dimensional and nearly adiabatic. Recent work has shown that the scales in between, the submesoscales, have interesting dynamics distinct from either smaller or larger scales and a direct impact on climate. I will present some dynamical results of the submesoscale, as well as a parameterization developed to capture the most important effects of submesoscale eddies on climate.