

Oceanography Seminar

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Internal Waves in Variable Stratification

1200 Monday, May 20, 2019
Spanagel Hall, Room 316

Internal waves are oscillatory motions of a density-stratified fluid. They are ubiquitous in Earth's oceans and atmosphere, transporting momentum and energy and playing an important role in ocean dynamics and climate. In varying stratification, internal waves transfer energy to harmonic modes. This nonlinear process may contribute to the transfer of internal wave energy from large to small scales in the ocean. This seminar will introduce basic concepts of internal waves and explore harmonic generation in variable stratification using weakly nonlinear theory, laboratory experiment, and numerical simulation.