

East Carolina University®
Department of Physics

Colloquium

Friday, November 22, Room N109, Howell Science Complex
3:15 p.m. (Refreshments at 3:00 p.m.)

Professor Derek Grimes
University of North Carolina - Wilmington

*Shoreline Released Tracer Evolution Mediated
by Surf-zone and Inner-shelf Processes*

I will share observations from a surf-zone dye release experiment conducted during my PhD that motivated a deep dive into the interaction of surf-zone generated eddies (rip-currents) with inner-shelf stratification. I will discuss the time & space scales of these exchange pathways. This work motivated my active research on the generation and evolution of surf-zone flows, mixing and exchange associated with kelp forests, and the impacts of receding, fecal-contaminated tidal-floodwaters. I will share details of these ongoing projects.

WebEx Link:

<https://ecu.webex.com/ecu/j.php?MTID=m597b61dec85df5a0e1e21138fe56cd86>

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