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Department of Marine Sciences Presents a Seminar by

Colleen Mouw

University of Rhode Island, Graduate School of Oceanography

Phytoplankton Community Size Structure – Environmental Controls and Export

Phytoplankton play key roles as the base of the marine food web and as a crucial component in the Earth's carbon cycle. Global phytoplankton communities have been changing in response to a shifting climate. Such changes have far reaching implications for the magnitude and efficiency of the biological carbon pump and for the structure and function of higher trophic levels. Utilizing advances in detecting phytoplankton functional types from ocean color satellite imagery, I will describe improved understanding of the impact of phytoplankton size on particle export, remineralization, and transfer. Combining these products with physical properties (PAR, euphotic depth, sea surface temperature, sea level anomaly, heat flux, mixed layer depth and stratification) across a variety of missions spanning from 1997 to 2015, I will also explore changing patterns in phytoplankton community composition, in response to environmental controls.

Host: Melanie Fewings
Time & Date: 11:00 am, Friday, September 29, 2017
Place: Marine Sciences Building, Seminar Room 103

For cancelations and additional seminar information, please see http://marinesciences.uconn.edu/seminar/seminar1178/, email marinesciencesseminars@uconn.edu, or call 860-405-9152 or 860-405-9151