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**Department of Marine Sciences
Presents a Seminar By**

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Space-Time variability of bio-optical properties in the Southern California Bight

In this talk I will examine the variability of particles and phytoplankton in the Southern California Bight over various time and space scales. I will show data from an underwater glider that was used to repeatedly sample the inner and mid-shelf Santa Barbara Channel, CA (from 20 to 70 m depth), providing data in detail never before observed in the area. Highly resolved glider data allowed answering questions such as: what is the space-time distribution of phytoplankton and sediments in the coastal Santa Barbara Channel? And, what are the main controls on the variability of these properties? Then, a larger scale approach is taken to determine what drives bio-optical variability in the Southern California Bight. This specific study took advantage of more than 17 years of quality optical imagery from SeaWiFS, MODIS, MERIS and VIIRS sensors, which were spectrally merged using a bio-optical algorithm to increase space-time coverage. The data allowed the observation of daily to seasonal and inter-annual changes in bio-optical properties, as well as long-term trends. Controls on backscatter and chlorophyll were assessed, and surface waves were shown to modulate the amount of suspended materials near the coast, also confirming observations obtained with the glider dataset.

Host: Heidi Dierssen

Time & Date: 11:00 am, Friday, September 16, 2016

Place: Marine Sciences Building, Seminar Room 103

Please see this [page](#) for cancelations and additional seminar information, email marinescienceseminars@uconn.edu, or call 860-405-9152 or 860-405-9151