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Department of Marine Sciences
Presents a Seminar by

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The Effects of Ice and Currents on Wave-breaking Turbulence at the Ocean Surface

Breaking waves are critical to the exchange of momentum, gasses, and heat between the atmosphere and ocean. Wave breaking limits the growth of waves from wind, and acts as a source for turbulence at the ocean surface. Local ocean properties can significantly alter wave breaking and the resulting turbulence generation. At river inlets, strong currents influence swell that has grown over a long ocean fetch, dramatically increasing surface fluxes. The reverse effect is seen in the marginal ice zone, where drifting ice floes decouple ocean waves from the wind field, decreasing wave breaking and turbulence at the air/sea interface. Measurements of ocean waves and near surface turbulence from two field efforts are presented to show the modification of surface boundary processes from ice and currents.

Host: Jim O'Donnell

Time & Date: 11:00 am, Friday, September 27, 2019

Place: Marine Sciences Building, Seminar Room 103

If you are an individual with a disability and need accommodations, please contact 860-405-9152, 860-405-9087, or marinesciencesseminars@uconn.edu.

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