

# UConn

## UNIVERSITY OF CONNECTICUT

Department of Marine Sciences  
Presents a Seminar By

**Carlos Moffat**  
University of Delaware

### **The Ocean and Glacier Retreat in Patagonia**

Understanding the ocean's structure and circulation in the vicinity of tidewater glaciers is key to elucidate the role the ocean is playing in modulating loss of freshwater from the continents and to quantify the present rate and future evolution of Sea Level Rise. Patagonia contains the largest temperate ice bodies in the Southern Hemisphere, and the vast majority of glaciers that form the Patagonian Ice Fields are currently retreating. Here, glaciological, meteorological, and oceanographic observations collected since 2010 in a fjord adjacent to Jorge Montt glacier, a rapidly retreating glacier in the Southern Patagonia Ice field, are used to explore key processes that explain the supply of warm water to the ice-ocean interface, the structure and evolution of the freshwater output from the glacier, and the overall impact that the ocean is playing in the retreat of these glaciers.

**Host:** Melanie Fewings

**Time & Date:** 11:00 am, Friday, October 28, 2016

**Place:** Marine Sciences Building, Seminar Room 103

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