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Woods Hole Oceanographic Institution  
**Biology Department Seminar**



Thursday, December 7, 2023 – 12:00 Noon

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## **Climate Impacts, Adaptation, and Resilience in Marine Fisheries**

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Climate change is altering oceans and marine ecosystems around the world, pushing physical conditions beyond recent analogues, driving biological changes, and creating impacts that cascade through social-ecological systems. The Northeast U.S. Shelf has experienced rapid warming of ocean temperatures, recurring marine heatwaves, and an exceptionally warm temperature regime over the past decade. Fish and invertebrate populations across the region are being affected in a variety of ways, including changes in distribution, growth, phenology, and productivity. Moreover, changing ocean uses that can support climate adaptation and mitigation are also affecting marine ecosystems and fisheries. The nature of these impacts and ability of fishery stakeholders to respond to them are mediated by the ecological, socio-economic, and governance dimensions in which fisheries operate. This presentation will examine approaches to support climate adaptation in marine fisheries in the Northeast US that span multiple scales and the three dimensions noted above. It will also highlight bidirectional global-local perspectives to identify multifaceted strategies to support climate resilience in marine fisheries, including measures directed towards enhancing fish stocks and ecosystem health, reinforcing or building social capacities, expanding economic opportunities, and enhancing governance responsiveness and effectiveness.

VIRTUAL ONLY! **Zoom:** <https://whoi-edu.zoom.us/j/92042690941> Meeting ID: 920 4269 0941 **By phone:**  
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