Commonwealth Center for Coastal Physical Oceanography
Old Dominion University
Fall 2012 Seminar Series

"LARGE-SCALE OCEAN VARIABILITY AND ECOSYSTEM RESPONSE IN THE NORTHERN CALIFORNIA CURRENT SYSTEM"

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Monday, October 22, 2012
3:30 PM
Room 3200, Innovation Research Park Building I

Abstract

In the northern California Current (NCC), zooplankton communities in the inshore and offshore waters showed a synchronized response to large-scale forcing as indexed by the Pacific Decadal Oscillation (PDO), with copepods in the coastal waters more responsive to local perturbations than those in the slope waters. Alongshore transport manifests PDO signals and serves as a linkage between large-scale forcing and local ecosystem dynamics. In years when the PDO is negative, a greater portion of the source waters feeding the NCC enters from the north, resulting in higher copepod biomass and greater salmon survival.

Biography

Hongsheng Bi received his Ph.D. from Louisiana State University in 2005. He then held a postdoctoral position at Oregon State University before joining the faculty at the University of Maryland Center for Environmental Science in 2009, where he is currently an Assistant Professor. His current research interests include climate change and ecosystem response, and early life stages of gelatinous zooplankton and their trophic interactions.

Reception before seminar at 3:00 PM