

## CICOR: Coastal

### CICOR Research Theme: The Coastal Ocean and Near Shore Processes

Coastal waters are important for reasons that include weather, national defense, shipping, fishing, human health, coastal hazards, and mineral extraction. NOAA's mandate to bring its resources to bear on the protection and management of these waters and related ecosystems has never been more important. Woods Hole Oceanographic Institution offers a range of collaborative opportunities, that include:

- Dr. Di Jin's analysis has quantified the economic impact of a recent Red Tide event. The Marine Policy Center, of which he is a member, actively works at the intersection of natural science research with the economic and policy studies that translate oceanographic findings into practical outcomes.
- The Woods Hole Oceanographic has a range of facilities that can be used cooperatively with NOAA researchers, including the Martha's Vineyard Coastal Observatory, both large and small research vessels, and specialized laboratories.
- Woods Hole scientists have long been leaders in understanding currents and water properties in estuaries and over the continental shelf. These waters are increasingly important because of the dramatic anthropogenic effects often found there. WHOI approaches include the observations, theory and modeling, as well as their intersections.
- Shoreline change, on time scales ranging from hours to centuries, is a major research focus. Studies range from understanding the mechanics of sediment transport to studying sedimentary records in order to obtain detailed historical records of hurricanes.



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Mail: Woods Hole Oceanographic Institution, 266 Woods Hole Road, Woods Hole, MA 02543, USA.

E-Contact: [info@whoi.edu](mailto:info@whoi.edu); press relations: [media@whoi.edu](mailto:media@whoi.edu), tel. (508) 457-2000

Problems or questions about the site, please contact [webdev@whoi.edu](mailto:webdev@whoi.edu)