

News

•In the Pacific Northwest, the shellfish industry injects an estimated \$111 million (of \$270 million nationally) a year into the region's economy, bringing jobs to over 3,200 people, primarily in coastal communities. Ocean acidification is a top research priority for NOAA and better understanding its corrosive effects on shellfish and other marine creatures is helping our nations' fishing and aquaculture industries understand, prepare for and adapt to the changing ocean chemistry. What: NOAA researchers and their academic colleagues on board the Fairweather will visit a number of "mooring" sites where ocean circulation and chemistry are monitored. During the stop they will collect and analyze water and plankton samples. · Scientists will be doing a survey of impacts of ocean acidification on pteropods, a planktonic snail that is a key food source for many commercially and economically important fisheries in the Pacific Northwest like salmon. Scientists will sample known "hot-spots" for Pseudonitzschia, a harmful algal species, along the U.S. West coast to determine whether natural populations of these cells respond to low pH waters by increasing their toxin production. This will be a rare opportunity for biologists and chemists on board for a few reasons. Biologists will be able to look at the response of these organisms in the natural environment, while chemists simultaneously look at the ocean chemistry. They will be using the same samples, as opposed to 100.00 performing experiments in an isolated laboratory Scanning electron micrograph of a healthy pteropod shell. Photo setting. courtesy of Nina Bednarsek, PMEL · Data from this cruise will be made available later this year. It will compare this year's data with that of a mission which followed the same cruise track in 2007. Mission Leaders & Scientists: Dr. Richard A. Feely, mission co-chief scientist (Leg 1), NOAA's Pacific Marine Environmental Laboratory (Biography) · Dr. Simone Alin, mission-co-chief scientist (Leg 2), NOAA's Pacific Marine Environmental Laboratory (Biography) · Dr. Erica Hudson-Ombres, mission scientist (Leg 1), NOAA's Ocean Acidification Program (Biography) Additional Resources NOAA Ocean Acidification Program: http://www.oceanacidification.noaa.gov/ NOAA Pacific Environmental Marine Laboratory: http://www.pmel.noaa.gov/co2/story/Ocean+Acidification