



**Please join us for our first C-CAN Roundtable discussion of
this series on
Monday, January 8 2018 at 1pm PST (4pm EST)**

Forecasting pH and aragonite saturation state in the Pacific Northwest: progress and needs

**Please forward this invitation to interested colleagues. We look forward to seeing
you at this event!**

Join Drs. Parker MacCready, University of Washington, and Samantha Siedlecki, University of Connecticut, the scientists who have created these models, to learn about these two forecast systems. Joe Schumacker, Quinault Indian Nation, will also share his perspective on the needs and utility of such tools. As noted above, this webinar is co-sponsored by C-CAN and NOAA Ocean Acidification Program and Northwest Fisheries Science Center, with assistance from Dr. Shallin Busch. The host for this presentation is Dr. Jan Newton, Washington Ocean Acidification Center and NANOOS.

Abstract: Ocean acidification of coastal waters is of increasing concern to local fisheries in the Pacific Northwest. This area enjoys a bountiful marine ecosystem that has supported coastal tribes, fishing communities, and a \$100 million shellfish industry. The ability to forecast acidification conditions and, further, to develop useful tools for visualization and indices of impact can provide considerable benefit to diverse stakeholders. Implementation of biogeochemical tracers into high-resolution models provides regional simulations that can improve our understanding of processes difficult to observe, investigate relationships between the ecology of marine organisms and ocean health, and generate forecasts and projections of changes to the region. Two such forecast systems now exist on the Washington and Oregon coasts. First, LiveOcean is supported by the Washington Ocean Acidification Center and provides a three-day forecast through the NANOOS portal. For decisions farther out into the future, seasonal forecasting is possible in the region with JISAO's Seasonal Coastal Ocean Prediction of the Ecosystem, J-SCOPE, (Siedlecki et al, 2016) through the support of NOAA. Results indicate J-SCOPE forecasts have measurable skill on seasonal timescales, for variables relevant to management

decisions for fisheries, protected species, and ecosystem health. Skill assessment and quantification of model performance for both forecasts systems focus on key variables of interest for local shellfish species: examples include bottom oxygen for adult crab and Ω for oyster and crab larvae. Work now includes implementing a forecast specifically targeting key shellfish species in the region. We plan to showcase our initial results of these pH forecasts and targeted products, including their forecast skill, and discuss the needs of this kind of tool in the region through the eyes of the tribal users from the Quinault Indian Nation.

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After registering you will receive a confirmation email containing information about joining the Webinar. Following the presentation there will be a few short informational announcements relevant to the C-CAN community.

More info on the series and upcoming webinars can be found on the [C-CAN website](http://c-can.info/workshopswebinars/) at <http://c-can.info/workshopswebinars/>

The Fine Print: Important Notes for participating in the Webinar

1. Plan to log into the Webinar at least 5 minutes before the scheduled start time. GoToWebinar is continually upgrading their software. We want to be sure that your computer has time to access any upgrades and you are able to access the presentation and meeting.
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System Requirements

PC-based attendees

Required: Windows® 8, 7, Vista, XP or 2003 Server

Mac®-based attendees

Required: Mac OS® X 10.6 or newer

Mobile attendees

Required: iPhone®, iPad®, Android™ phone or Android tablet

Please also mark your calendars for the second webinar in this series:

February 8, 2018 at 1pm PST (4pm EST)

Summary of a Workshop on Monitoring for Acidification Threats in West Coast Estuaries: A San Francisco Bay Case Study

Presenters: Phil Trowbridge, Manager of the Regional Monitoring Program for Water Quality in San Francisco Bay, San Francisco Estuary Institute, and Karina Nielsen, Director of the Estuary & Ocean Science Center and Professor of Biology, San Francisco State University.

This webinar is hosted by Bruce Steele, C-CAN Steering Committee member, and Dr. Shalin Busch, NOAA Ocean Acidification Program and Northwest Fisheries Science Center.