



Microsoft Research Campus, Redmond, Washington
 Thursday, February 2, 2012 – Friday, February 3, 2012

Thursday Workshop Agenda

Time	
8:00	Registration & Coffee

9:00 to 9:30	Welcome and Introductions <ul style="list-style-type: none"> Microsoft Research
9:30 to 10:20	Keynote Addresses: Ms. Laura K. Furgione, Deputy Assistant Administrator, National Weather Service 30 min State Senator Kevin Ranker, 40 th Legislative District, WA State 20 min

10:20-10:45	Coffee Break
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SETTING THE STAGE

Moderated by Jan Newton, Executive Director of NANOOS

10:45 to 11:00	Why We Are Here <i>David Martin, NANOOS Board Chair, Applied Physics Laboratory-University of Washington</i> This presentation will provide an introduction to the importance of measurements and observations in delivering safety, economic and environmental benefits. It will describe how the Integrated Ocean Observing System contributes to the delivery of these benefits locally, regionally, nationally, and internationally.
11:00 to 11:15	Delivering Observations in the Northwest Region <i>Jan Newton, Executive Director, Northwest Association of Networked Ocean Observing Systems, APL-UW</i> This presentation will provide a general introduction to the role of NANOOS in integrating regional observations. NANOOS is creating customized information and tools for Washington, Oregon, and Northern California with these areas of emphasis Maritime Operations, Ecosystem Assessment, Fisheries, Coastal Hazards, and Climate.
11:15 to 11:30	Communication through the NANOOS Visualization System <i>Jonathan Allan, NANOOS User Products Committee Chair, Oregon Department of Geology and Mineral Industries</i> This presentation will describe how NANOOS delivers information and products to users.
11:30 to 11:50	Panel Q&A Session

11:50 to 1:00	Lunch
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APPLYING MARINE INFORMATION

Moderated by David Martin, NANOOS Board Chair

1:00 to 1:15	Forecasting Northwest Hazards <i>Vicki McConnell, Oregon Department of Geology and Mineral Industries</i> This presentation will outline how observations and models are combined to generate forecasts for Northwest hazards such as tsunamis, flooding, and erosion.
1:15 to 1:30	Northwest Observations in Support of Management Decision Making <i>Jennifer Hennessey, West Coast Governors' Alliance</i> This presentation will introduce the role of data integration, and products and services that support decision making and other policy related issues.

1:30 to 1:45	Adapting to Changes in the Northwest <i>David Rupp, Oregon Climate Change Research Institute and Oregon Climate Services</i> This presentation will highlight how data and models are brought together to support adaptation to short and long-term change including the connection between local, regional, national and international observations.
1:45 to 2:05	Panel Q&A Session

USER CASE-STUDIES

Moderated by Jan Newton, Executive Director of NANOOS

2:05 to 2:20	Case Study Example – Fisheries <i>Peter Lawson, National Oceanic & Atmospheric Administration</i> <i>Joe Schumacker, Quinalt Indian Nation</i> <i>Mike Kosro, OSU & Scientists and Fisherman's Exchange (SAFE)</i> This case study will detail the local fisheries use of observations and derived products for improved decision-making and opportunities for enhanced observing.
2:20 to 2:35	Discussion – Linking needs to capabilities
2:35 to 2:50	Case Study Example – Aquaculture <i>Allan Barton, Whiskey Creek Hatchery</i> <i>Benoit Eudaline, Taylor Shellfish</i> <i>Andy Suhbier, Pacific Shellfish Institute</i> This case study will provide an understanding of how measurements play a role in operational decision-making for the aquaculture industry.
2:50 to 3:05	Discussion – Linking needs to capabilities
3:05 to 3:20	Case Study Example – Alternative Energy <i>Belinda Batten, OSU, Northwest National Marine Renewable Energy Center</i> <i>Brian Polagye, UW, Northwest National Marine Renewable Energy Center</i> This presentation will look at how observations are used in support of selecting wave and tidal locations and operations.
3:20 to 3:35	Discussion – Linking needs to capabilities

3:35 to 4:00	Coffee Break
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Moderated by David Martin, NANOOS Board Chair

4:00 to 4:15	Case Study Example – Coastal Engineering <i>Hans R. Moritz, United States Army Corps of Engineers</i> <i>David Michalsen, United States Army Corps of Engineers</i> This case study will focus on coastal infrastructure design and describe how observations have been used in risk assessment and analysis
4:15 to 4:30	Discussion – Linking needs to capabilities
4:30 to 4:45	Case Study Example – Hazard Response and Marine Operations <i>CDR Michael Schoonover, United States Coast Guard, Puget Sound</i> <i>Capt. Dan Jordan, Columbia River Bar Pilots Association</i> <i>Amy MacFadyen, NOAA HAZMAT</i> This case study will provide an understanding of real-time data needs from the perspective of emergency response and marine operations.
4:45 to 5:00	Discussion – Linking needs to capabilities

SUMMING UP AND NEXT STEPS

Jan Newton, Executive Director of NANOOS

5:00 to 5:30	A synthesis of workshop outcomes.
5:30	Reception A reception providing an opportunity for further discussion on the day's proceedings and networking amongst the providers and beneficiaries of Northwest observations.

Friday Workshop Agenda

Time	
8:30 to 10:30	<p>New Collaborations At this meeting Microsoft Research will present details of projects they are undertaking which have relevance to the Integrated Ocean Observing System. This will include a summary of their recent work on the development of 'Eye on Earth' (http://watch.eyeonearth.org); a portal for public delivery of environmental data and the incorporation of data from citizen observing networks. The meeting will provide an opportunity to discuss and develop new ideas for distribution and use of marine data and the potential for public contribution of observations.</p>
11:00 to 1:00	<p>Enhancing Observations A meeting aimed at further developing the outcomes of the previous day's workshop and determining how to take them forward. In particular, this meeting will seek to address three main themes:</p> <ul style="list-style-type: none"> • Achieving optimum integration of the Pacific Northwest regional observing efforts and needs of the Federal Agencies represented on the Interagency Ocean Observation Committee; • Encouraging wider participation of stakeholders in the work of NANOOS; • Securing and sustaining improved engagement with all users of marine observations and forecasts.

Lunch and Open House at Seabird Electronics, Inc.

Time	
1:30 to 4:00	<p>New Collaborations All attendees of the Gateway to our Future workshop are invited to the Seabird Electronics, Inc. world headquarters (located .5 mile from the Microsoft campus) for a lunch and open house with guided tours. Please come learn how Seabird is dedicated to serving the needs of regional and worldwide partners in advancing the science and monitoring of valuable water resources.</p> <p>Sea-Bird Electronics, Inc. is the largest manufacturer of marine instruments for measurement of salinity, temperature, pressure, dissolved oxygen, and related oceanographic variables. These instruments have been used to study and monitor our regional estuaries and global oceans since the 1970's. As part of their commitment to advancing the science of ocean measurement, they are deeply invested in engineering, metrology, calibration, software development, scientific analysis, and other essential technologies that make our products more accurate, reliable, and broadly useful.</p>