

HIGHLIGHTS

White House summit – More than 125 representatives of industry, academia, government agencies and philanthropy gathered at the White House Eisenhower Executive Office Building November 14 to share ideas about increasing public-private partnerships to enhance ocean research and the blue economy. AOOS Executive Director Molly McCammon and IOOS Program Director Carl Gouldman represented the IOOS ocean observing community. The gathering, hosted by the Office of Science and Technology Policy and the Council on Environmental Quality, was a high-profile means to foster new partnerships and identify opportunities to advance marine science, promote new technologies, and explore the unknown ocean.

The summit was followed by the release on November 19 of a Presidential Memorandum on Ocean Mapping of the United States Exclusive Economic Zone and the Shoreline and Nearshore of Alaska. In the memorandum, President Trump directed Federal agencies to develop



AOOS Executive Director Molly McCammon and IOOS Program Office Director Carl Gouldman.

a national strategy to map the United States Exclusive Economic Zone (EEZ) and a strategy to map the Alaskan coastline to advance our understanding of our oceans and coastlines and to promote efficient permitting related to ocean exploration activities. Read the Presidential Memorandum [fact sheet](#).



Shallin Busch (NOAA OAP) and Darcy Dugan (AOOS) at the Pacific Marine Expo

Pacific Marine Expo – Darcy ran an Alaska OA Network table at the Pacific Marine Expo in Seattle on Nov 21-22 and had the chance to talk to fishermen from Alaska and across the Pacific Northwest about ocean acidification. She was joined by Shallin Busch (NOAA OAP and Alaska OA Network Steering Committee member) on the first day and Tom Hurst (NOAA fisheries researcher) the second day. The experience validated the level of interest and concern about ocean acidification from the fishing community – the majority of people that came to the booth were aware of the issue and looking for more information. Thank you to our partners at the Alaska Marine Conservation Council for sharing booth space!

CONFERENCES/MEETINGS/PRESENTATIONS

National Geospatial and Intelligence Agency (NGA), Arctic Domain Awareness – Carol presented to a diverse audience of 250 people including individuals from the US, Canada, Denmark, Netherlands, UK, Australia, and Alaska Native organizations, at the Symposium on Arctic Maritime Domain Awareness (MDA) held at NGA in Washington DC, Nov. 21. Carol participated on a science and observing panel and discussed efforts IOOS and AOOS are engaged with for improving MDA in the U.S. Arctic. The Maritime Community of Practice (MCoP), hosted by NGA, is a collaborative group of analysts whose members share maritime-related intelligence, knowledge, and tradecraft, to strengthen expertise, facilitate cross-occupational collaboration, and foster interagency cooperation. The MCoP unites traditional and non-traditional partners who have an interest in areas such as MDA, emerging threats, new technologies, safety of navigation, and warfighter support. The MCoP establishes a network of subject matter experts and organizes annual speaker series and symposia for analysts to share information and collaborate. This information exchange enables maritime experts to better serve the Intelligence Community, U.S. policymakers, and warfighters.

ACCAP Advisory Committee – The Alaska Center for Climate Assessment and Policy's Advisory Committee met in Anchorage on November 6. As a member of the committee, Molly participated in discussions about potential collaborations with ACCAP in addressing current and emerging climate change initiatives.

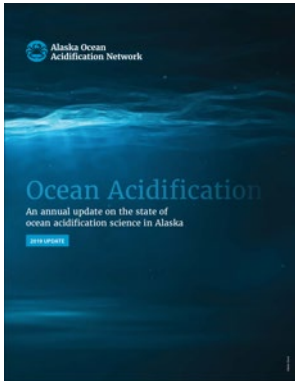
Regional Ocean Data Sharing Conference – Molly and Rob participated in this conference in Charleston, SC Nov. 21-22. The conference was hosted by NOAA's Office of Coastal Management and provided an opportunity for this year's Regional Ocean Data Sharing Partnerships to share their proposed action plans. AOOS is a grant recipient and plans to focus our efforts on data sharing in the Bering Sea region.

COLLABORATIONS

Women's Climate Adaptation Conference – Darcy attended a 1.5 day workshop November 14-15 that brought together 25 women from around the state to create a network of women who are leading climate adaptation efforts throughout Alaska. The workshop provided the chance for participants to get to know each other, generate ideas, share solutions, and generate new connections for moving forward in our work.

AK Sea Grant Task Force – Molly is meeting with other task force members as part of a review of AK Sea Grant's organizational structure within the University of Alaska system.

AK Marine Policy Forum – The bi-monthly Alaska Marine Policy Forum call was held on November 20 using Zoom as a new platform for the call. This call featured Rachel Potter, UAF researcher, talking about the High Frequency radars installed in the Arctic and the new stations in the Bering Strait region.



PROJECT HIGHLIGHTS

AK OA Network – The Alaska Ocean Acidification Network produced two new outreach materials this month: 1) [the 2019 State of the Science update](#), highlighting what we've learned through research and monitoring in the past year; and 2) a 2-pager on [how crab and fish may respond to ocean acidification in the face of other stressors](#) such as warming. These can also be found on the Alaska OA Network website. If you'd like a stack of hard copies to circulate, please email Darcy (dugan@aoos.org). It is exciting to see the amount of progress in the past year!

AK HAB Network – The Alaska HAB Network held a monthly telecon on November 14, providing a chance for network members to hear updates on research, monitoring, and events around the state. Highlights from the call included shellfish toxins in Southeast tapering off, continuing research efforts around understanding harmful algal bloom toxins within the food web,

expanded toxin testing capacity at the Department of Environmental Conservation, and ongoing concerns around harmful algal bloom risk communication statewide. AHAB Network members will be contributing information to a statewide summary on HAB events from the summer of 2019 that will be available no later than Alaska Forum on the Environment in February 2020. Notes will be posted on the AHAB website next week.

DATA MANAGEMENT

IOOS DMAC Code Sprint: A team of six Axiom staff joined in the inaugural [IOOS Code Sprint](#) October 8 - 10 in Ann Arbor, MI to tackle some tough ocean and Great Lakes data management problems and develop new tools and capabilities. The Code Sprint brought together over 45 software developers, data managers, and technical professionals from the IOOS Data Management and Communications (DMAC), the Canadian IOOS (CIOOS), ocean observatories, and other communities, to advance capabilities to publish physical, chemical, and biological ocean and lake observations. Most of the work centered on improving open source software libraries hosted on IOOS' [GitHub](#) organization. Specifically, work was done to standardize the software used for Quality Assurance/Quality Control of Real Time Oceanographic Data (QARTOD) implementation, query and plot timeseries datasets hosted on ERDDAP servers on a mobile-friendly app, format and display biological datasets in Darwin Core schema, and leverage emerging commercial cloud technologies like 'functions-as-a-service' for data publishing needs. The AOOS Data System capabilities for QARTOD and timeseries visualizations were leveraged as part of these code sprint activities.

UPCOMING EVENTS

Dec 3-5	ADAC Arctic Oil Spill workshop, Anchorage – Molly
Dec 5-6	CIRCAC Board Meeting, Anchorage – Molly
Dec 9-13	AGU, San Francisco – no AOOS staff attending this year
Dec 16	AOOS Board Meeting, Anchorage
Jan 27-30	AK Marine Science Symposium

Molly McCammon, Carol Janzen, Holly Kent, Darcy Dugan, and Stacey Buckelew