

HIGHLIGHTS

CPR/first aid class - In June, the whole AOOS team (joined by some fellow office suite colleagues from NPRB) refreshed our CPR/First aid/AED certification. Most of the training took place online through the American Red Cross, with an hour of in-person skills training that took place in the office conference room. As we slowly return to an office setting, we felt

that it was important for all of us to be prepared to help each other out in the event of an emergency. In this spirit, we are also working on updating our office emergency plan, and purchasing an AED unit for the office suite.

Lower Cook Inlet CDIP Wave Buoy Offline - At 9:00 am on Wednesday May 26, 2021 AOOS received a call from the Coastal Data Information Program (CDIP) in California that the Lower Cook Inlet wave buoy (CDIP buoy 204 due west of Homer) had gone adrift. Zech Bennett of C&C Diving & Salvage in Homer set out to rescue the buoy but before they could reach it on the water, the buoy had drifted ashore north of Homer and had to be removed from the beach at low tide via ATVs. A replacement buoy and mooring are being shipped to Alaska with plans to redeploy late July.

NSF Convergence Accelerator proposal submitted June 14 - AOOS led a proposal effort with

Sofar Ocean Technologies and two IOOS Regional Associations, the Northwest Association of Networked Ocean
Observing Systems (NANOOS) and Pacific Islands Ocean Observing System (PacIOOS). The primary objective is to get
wave data into the hands of Indigenous communities in a way that takes advantage of existing, lower-cost technology
and enables sustained community-led stewardship of the wave buoys. The co-production partners include: Alaska
Eskimo Whaling Commission, Quileute Tribe, Quinault Indian Nation, Marshall Islands Conservation Society, and the
National Park of American Samoa.

ADMINISTRATIVE

AOOS Board Executive Committee - The committee met June 24 to finalize the FY21 spend plans for the IOOS core program, as well as funds for Regional Ocean Data Sharing, Harmful Algal Bloom Observing Network, and the AK Ocean Acidification Network.

IOOS

IOOS Association - The Board met June 7 for a business meeting (Sheyna and Katrina Hoffman, AOOS Board Chair are the two AOOS board members) and to present the 2021 Caraid award to Libby Jewett, the founder of NOAA's Ocean Acidification Program. The Caraid Award recognizes outstanding contributions to ocean, coastal and Great Lakes observing through vision, leadership, collaboration, and friendship. Caraid is a Scottish Gaelic word that means "care" or "love" and is pronounced like "courage".

IOOS FAC - The IOOS Federal Advisory Committee met virtually June 14 to present NOAA leadership with a set of recommendations intended to strengthen the IOOS Enterprise (Program Office, Regional Associations, and Interagency Ocean Observing Committee). Molly led the vision and strategy discussion. Molly also led a discussion with the committee on future research needs for NOAA to consider as part of its coastal resilience leadership role. And finally, the committee began discussions of a committee workplan for the coming year.

COLLABORATIONS/PARTNERSHIPS

<u>State</u>

Alaska Water Level Watch (AWLW) - The AWLW Steering Committee met on June 21 to finalize and ratify the AWLW Guidance Plan and to review the 2021 water level build-out map. The AWLW Steering Committee established this framework for a sustained collaborative team consisting of state and federal agencies, local governing entities, non-profits, private businesses, and communities to enable the effective and efficient sharing of information, foster leveraging of available resources, provide improved services to mutual customers and assistance in identifying and prioritizing actions to fill water level monitoring gaps, and promote advancement of water level sensing technologies for

use in Alaska's coastal waters. The <u>AWLW</u> steering committee is led by Jacquelyn Overbeck (AKDNR-DGGS), and includes Carol Janzen (AOOS), Nathan Wardwell (JOA Surveys), Becki Heim (NOAA NWS, Alaska Region), and Laura Rear McLaughlin (NOAA CO-OPS, National). Both Becki and Laura have had position changes, so we expect to be bringing in new committee members in 2022.

The 2019 Alaska Coastal Mapping Prioritization Survey Report - This has been finalized and is available at 2019 Alaska Coastal Mapping Prioritization Survey. Financial support for this survey and publication were provided by NOAA, State of Alaska, USGS, and AOOS.

AK Coastal Resilience Assessment - Molly continued participation June 4 with a group advising a national effort to develop an Alaska Coastal Resilience Assessment. The draft assessment is being conducted by NOAA's Office of Coastal Management and the National Fish and Wildlife Foundation and will produce a Coastal Resilience Evaluation and Siting Tool, which will be reviewed through a variety of stakeholder engagement forums this fall and winter.



Alaska Ocean Acidification Network - An updated poster showing the response of Alaska species to ocean acidification is now available. The poster summarizes the results of peer reviewed studies on calcification, growth, reproduction and survival. New features include more species as well as responses at different life stages. The OA Network also released a 5-minute video highlighting a study on Alaska pink salmon which is currently underway at the Alutiiq Pride Marine Institute. The study is part of a larger project exploring tipping points in the marine environment and our ability to predict them and respond through fisheries management.

Alaska Harmful Algal Bloom Network - In addition to the monthly HAB update, Thomas led a HAB identification workshop in June. This workshop was part of a 2-day training on HAB monitoring and event response done in collaboration with the Kachemak Bay Estuarine Research Reserve. The identification workshop brought together six experts to share their expertise on how to identify harmful bloom species under the microscope. The workshop was recorded and is available online through the AHAB website. Thomas will now work on putting

together a short reference guide for Alaska HAB identification based on this workshop. The AHAB Action Plan was revised and will be going out to the steering committee for final approval in early July, and the HAB 2020 summary was finalized in June. Thomas also developed a FY22 budget and spend plan for the AHAB network.

Bering Region Ocean Data Sharing Initiative - The Bering Science outreach publication was presented during a UAF/ACCAP webinar on June 22. Speakers included Jill Prewitt (AOOS), Rick Thoman (UAF/ACCAP), Katie Howard (ADF&G), and Elizabeth Siddon (NOAA/NMFS/AFSC). Speakers presented information included in the Bering Science publication released in April and also gave updates on research and observations in 2021. A recording of the webinar is available on the ACCAP website. Jill worked with Molly to develop a Regional Data Sharing FY22 budget and spend plan. Jill continues to work on development of the Bering Sea Data Integration Portal and the Bering Strait Transboundary Incident Response Tool (funded through BODSI and WWF US Arctic Program).

National/International

Coastal Resilience Planning for NOAA Science Advisory Board - Molly led a discussion on coastal resilience research needs for a committee of the Hydrographic Services Review Panel on June 9, and a discussion with the IOOS Regional Association directors on June 15.

UNDOS Arctic Task Force - Molly and University of Washington's Craig Lee met for a final time June 23 with the Danish Marine Institute's Arctic Action Plan Task Force to discuss how to move forward with implementation of the UN Decade of Ocean Science Arctic Action Plan.

DATA MANAGEMENT

The Axiom data management team participated in the 2021 DMAC Virtual Annual Meeting held June 15-17, 2021. Axiom gave five oral presentations focused on recent data management developments at the meeting, including presentations entitled: SanctSound: Acoustic Observing Systems & Data Portal (Brian Stone/Axiom, Carrie Wall Bell/NCEI); ATN DAC: Quality Controlled Animal Bourne Ocean Profiles on the GTS (Kyle Wilcox); Faster Visualizations of Gridded Data (Luke Campbell); and Hoos ERDDAP Implementation Status - GTS/Sensor Map Transition (Micah Wengren and Shane St.Savage), and WebCOOS: Best Management Practices for Video Data (Kyle Wilcox).

ENGAGEMENT METRICS

Audience Name	Type of Presentation	# of people
Alaska Harmful Algal Bloom Network	Facilitated monthly meeting and update	37
HAB identification and monitoring workshop	Training workshop	41
HSRP Planning Committee	Research needs discussion for NOAA SAB	20
IOOS RA Directors & Program Office	Research needs discussion for NOAA SAB	30
KBBI - Homer and serving the Kenai Peninsula	Interview/News Story for Science Friday	many
ACCAP Webinar - Bering Science	webinar	40

UPCOMING EVENTS

July 19-21 Alaska Eskimo Whaling Commission Tri-annual convention, Fairbanks, AK (in person)

Aug 31-Sept 2 US-Russia Coast Guards joint incident response tabletop exercise (Molly & Jill)

Sep 20-23 OCEANS'21 (MTS/TOS/IEEE) Conference in San Diego, CA (in person)

Oct 5-7 IOOS Association fall mtg, Washington DC (Sheyna, Molly & Katrina)

Oct 19-21 IOOS Community Modeling Workshop, virtual

Nov 1-4 & 8-11 Coastal & Estuarine Research Federation Conference 2021 (virtual)

Nov 2-4 2021 Maritime Risk Symposium, University of Houston College of Technology (in person)

Dec 13-17 AGU Fall Meeting 2021, New Orleans, LA (in person) (Abstracts due Aug 4)

Feb 27-Mar 4, 2022 Ocean Sciences Meeting, Honolulu, HI (in person) (Abstracts due Sep tbd)

Sheyna Wisdom, Molly McCammon, Carol Janzen, Holly Kent, Darcy Dugan, Jill Prewitt, Thomas Farrugia, Marta Kumle and our data team at Axiom