



HIGHLIGHTS

A team of Distributed Biological Observatory (DBO) scientists just completed a research cruise on the R/V *Sikuliaq* November 7-16, 2021. The team of 11 scientists from six institutions collected water column data and samples, zooplankton, and sediments, as well as mooring retrievals and deployments. This research cruise was able to happen because of the extensive partnerships among NOAA, AOOS, NPRB, and NSF.

ADMINISTRATIVE

PI Informational Webinar - AOOS staff hosted a series of informational webinars for all new PIs for the new NOAA Cooperative Agreement in October and November. The webinar provided information to PIs and their accounting team for proper invoicing and reporting. Feedback from PIs has been positive!

Semi-Annual Reporting - Because we are in a closeout year AND a new year for our two Cooperative Agreements, AOOS has two concurrent reporting cycles this winter. The semi-annual report for the “old” agreement is due at the end of December and the first semi-annual report for the “new” agreement is due at the end of January. Our team has been working hard to get all the information together!

Annual Audit - Our fiscal agent (Alaska SeaLife Center) has started the annual audit for AOOS. The ASLC team will be busy over the next few months as they ensure we are in compliance!

PROPOSALS/AWARDS

MBON - AOOS is teaming with Dr. Katrin Iken with UAF to apply for a 5-year grant for the NOAA Marine Biodiversity Observation Network (MBON). UAF has operated the Alaska MBON (AMBON) for the last 8 years in which AOOS was an informal partner; AOOS is formalizing the partnership with UAF for this proposal due December 17.

IOOS

IOOS FAC - As a member of the IOOS Federal Advisory Committee, Molly joined the committee’s administrative call on November 1, and the public meeting on November 29. At the public meeting, committee members heard from NOAA Administrator Rick Spinrad, IOOS Program Office Director Carl Gouldman, Interagency Ocean Observation Committee Co-Chair Laura Lorenzoni (NASA), and NOAA Coastal Resilience lead Mark Osler. Day 2 of the FAC meeting will be held December 6 and will include working sessions to develop the committee’s next 3-year work plan.

CONFERENCES/MEETINGS/PRESENTATIONS

CERF presentation - Molly presented “Detecting climate trends, variability and their impacts in coastal Arctic Alaska” during a special session November 3 on Detecting the Coastal Climate Signal at the 2021 Coastal and Estuarine Research Federation.

Maritime Risk Symposium presentation - Sheyna was on the panel entitled “Climate Change - Operationally Relevant Arctic-Related Research” on November 5 at the 2021 Maritime Risk Symposium ([MaritimeSymposium](#))

ARCUS Annual Meeting - Sheyna participated in the Arctic Research Consortium of the United States annual meeting on November 4, providing an update on AOOS activities to this group.

COLLABORATIONS/PARTNERSHIPS

State

Alaska Sea Grant Advisory Committee - Sheyna and Molly represented AOOS at the Alaska Sea Grant Advisory Committee on November 5.

Alaska Ocean Acidification Network: November was a busy month for the network. Darcy was on a live radio show in Kodiak about ocean acidification and the Future Ocean Podcast on November 2, and ran an [Op-Ed](#) about the podcast and OA in Alaska in the November issue of Pacific Fishing magazine. She and two researchers (Claudine Hauri and Marina Washburn of UAF) were part of an ocean acidification session at the 2021 Virtual Alaska Fishermen’s Expo on Nov 8. The network’s executive committee is planning an ocean acidification dialogue series in the spring and currently has a survey out to help inform the structure and content of the sessions. If you are interested in



Photo: Aurora above young sea ice at DBO4. Photo from cruise report.



November e-News



A closer look at species response studies
As climate change continues to impact the world, there are still many ways to learn about the science. Check out the updated annotated bibliography on Alaska species responses to ocean acidification. Learning highlights of studies that the researchers tested in each study and their high level results. Thanks to the Policy Lab at UAF for compiling this resource and updating it to 2021.
Alaska SeaLife Center

engaging on ocean acidification, please [take the 5-minute survey](#). You can also check out the [November eNews](#) which highlights some new resources, including a bulleted breakdown of what species response studies have tested and what they found.

Alaska Harmful Algal Bloom Network - Thomas is at the 1-year mark as the AHAB network coordinator at AOOS and went through his annual review with Sheyna. He is satisfied with his progress so far and is looking forward to building on the energy and engagement of the network members to further develop the HAB monitoring and research capacity in Alaska. Thomas also took 2 weeks of leave in later October and early November to visit family. In November, Thomas took part in several outreach events, including leading a discussion on HABs for Tuula Holmen's DVM 714 epidemiology class, presenting at the Alaska Tribal Conference for Environmental Management (ATCEM) on Nov 15 along with Darcy Dugan on the food security threat posed by HABs and ocean acidification, and leading a training on HAB outreach and monitoring techniques at ATCEM.

Bering Region Ocean Data Sharing Initiative - Heather McFarland (UAF/IARC) held two meetings on behalf of Jill (who was out on medical leave) to plan for content for the next Bering Science outreach publication. Meetings will continue with other observation and monitoring groups for possible inclusion in the publication. Jill attended the RODSI Technical Working Group meeting on November 16, which focused on the technical issues around implementing RODSI datastreams and products; she gave an update on RODSI activities such as the Bering Science outreach publication, Bering Strait Transboundary Incident Response Tool and plans for a portal of conserved/protected areas for the America the Beautiful Initiative. Jill attended the ARCUS Community & Citizen Science follow-up webinar on November 30.

National/International

NOAA SAB Coastal Resilience activities - Molly participated in meetings on Nov 18 and 23 as part of a small Science Advisory Board working group helping scope out NOAA's leadership role in coastal resilience.

UNDOS Arctic - Molly met November 30 with a small working group planning a session on the UN Decade of Ocean Science's Arctic Action Plan to be held during the Arctic Science Summit Week in Tromso, Norway in late March.

ENGAGEMENT METRICS

Audience Name	Type of Presentation	# of people
Kodiak Public Radio	Talk of the Rock live show on ocean acidification and podcast	we can only guess!
Alaska Tribal Management Conference (ATCEM)	Presentations on ocean acidification and HABS	26
2021 Alaska Fishermen's Expo	Panel on ocean acidification	45
OA Executive Committee	Planning	5
Bering Science - seabirds, walrus, salmon	Planning & facilitation	12
Bering Science - crab	Planning & facilitation	8
Alaska Tribal Management Conference (ATCEM)	Alaska HAB monitoring and outreach techniques training	39
2021 Maritime Risk Symposium	Panel member on operationally-relevant arctic research related to maritime risk.	200
2021 Coastal & Estuarine Research Federation (CERF)	Presentation on Detecting Arctic climate variability & trends	42
ARCUS Community & Citizen Science in the Far North	Participating in interactive webinar & breakout sessions	20
Technical Working Group for Regional Ocean Data Sharing Initiative	Update on AK RODSI activities to national RODSI technical working group	30

UPCOMING EVENTS

- Nov 30 - Dec 1** Pacific Arctic Group meeting (virtual) (Thomas)
- Dec 1-4** Alaska Eskimo Whaling Commission, Anchorage, AK (in person) (Sheyna, Jill)
- Dec 1-2** Alaska Coastal and Ocean Mapping Summit (virtual) (Carol)
- Dec 6** IOOS Federal Advisory Committee (virtual) (Molly)
- Dec 7** United Fishermen of Alaska webinar on Ocean Acidification (Darcy)
- Dec 13-17** AGU Fall Meeting 2021, New Orleans, LA (virtual)
- Jan 24** Ocean Acidification Research session at AMSS (Darcy)
- Feb 27-Mar 4, 2022** Ocean Sciences Meeting, Honolulu, HI (virtual) (2 Abstracts, Sheyna, Carol, Molly)
- Mar 26-Apr 1, 2022** Arctic Science Summit Week & Observing Summit (Tromso) (Sheyna, Molly)
- Sheyna Wisdom, Molly McCammon, Carol Janzen, Holly Kent, Darcy Dugan, Jill Prewitt, Thomas Farrugia, and our data team at Axiom**