

AOOS

Monthly Update July | August 2022

Ocean Observation Operations Update

- A research cruise is currently underway to research HABs in the Northern Bering Sea, Chukchi Sea and Beaufort Sea. This WHOI-led cruise aboard the R/V Norseman II is the first-ever extensive survey of HABs in this region.
- Nome real time reporting wave buoy is in the water for 2022. The Coastal Data Information System (CDIP) wave buoy 241 was deployed on August 1st offshore of the Port of Nome, and is now streaming real time information on significant wave height, wave direction, wave period, and sea surface temperature on the [AOOS Ocean Data Explorer Data Portal](#), the [CDIP website](#), and through the [National Data Buoy Center \(NDBC\) website](#).

Special thanks to Lucas Stotts (Port of Nome Harbormaster), Chris McCully (McCully Underwater Imagery and Inspection), the Norton Sound Economic Development Corporation (NSEDC), the US Army Corps of Engineers, and James Behrens, Les Hanson and the entire UC San Diego team at CDIP for their support with the 2021 buoy launch



Nome wave buoy on deck of an NSEDC fish tender, 2022. (Photo credit: Les Hanson, CDIP)

- Chukchi Sea Marine Mammal Glider “LOKI” Underway for 2022 Survey "Our AOOS funded whale glider was deployed last week [July 30,2022]. This glider is officially known as unit_595, but we like to call her “Loki.” Everything is functional and the glider is happily steaming to Barrow for recovery sometime this September." (Quote: Hank Statscewich, UAF-CFOS). The Chukchi Sea Marine Mammal Glider, supported by AOOS since 2013, provides one of the longest geospatial time series documenting unprecedented changes in the Arctic. Real time oceanographic data from Loki are streaming live through the AOOS Ocean Data Explorer Data Portal. Near real time passive acoustic detections of Arctic marine mammals are viewable on WHOI's Website: Robots4Whales, Chukchi Sea, Arctic Summer 2022.



The glider named “Loki” (unit_595) being launched by Robert Pickart and crew onboard the Norseman 2, July 30, 2022. (Photo courtesy: Robert S. Pickart, WHOI)

AOOS Projects & Partnership News

NSF Convergence Accelerator Backyard Buoy project

- It has been a busy time for the Backyard Buoy team as we prepared for the [NSF Expo 2022](#) held on July 27 & 28!
- You can now find us on the website (<http://backyardbuoys.org>), Facebook (<https://www.facebook.com/profile.php?id=100082225792257>), Twitter (<https://twitter.com/BackyardBuoys>), Instagram (<https://www.instagram.com/backyardbuoys>), and LinkedIn (<https://www.linkedin.com/company/backyard-buoys>).
- We are excited to travel to Utqiagvik Aug 16 & 17 for a Co-Production Workshop hosted jointly by the Barrow Whaling Captains Association, Alaska Eskimo Whaling



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Commission, and AOOS. Our partners from the NANOOS and PacIOOS region will be joining.

Alaska Harmful Algal Bloom Network

- The Alaska Harmful Algal Bloom Network has a new website! Check it out at ahab.aos.org to learn about HABs in Alaska, see what people are doing to research, monitor and address this threat to coastal communities, and get the latest HAB news.
- Thomas Farrugia is now a steering committee member of the [National HAB Observing Network Community of Practice](#), and will provide leadership and strategic insight to guide and advance HAB observing capabilities across the United States.

Alaska Ocean Acidification Network

- The Alaska Ocean Acidification Network has been on automatic pilot while Darcy is on a two-month leave of absence. She returns in September and will be working remotely from Germany!

Alaska Water Level Watch (AWLW)

- The Alaska Division of Geological & Geophysical Surveys works with Alaska Water Level Watch partners to maintain photos and resources on historical floods in western Alaska. These data are available in multiple formats, including the [DGGS photo database](#), [DGGS reports](#), and now the [AWLW Data Portal](#). Flood heights, impact levels, and photos can be viewed as a data layer in the data portal map view using the [Flood Events dataset](#).

AOOS Managerial

- The July Semi-Annual report for the new cooperative agreement was completed and submitted to the IOOS program office.
- Work continues on the NOAA Infrastructure Investments and Jobs Act proposal with a budget of \$1.9M with an intent to submit in early September.
- Megan Onders joined AOOS July 18 as Director of Ocean Engagement and works between Anchorage and Nome.
- AOOS Supported ANSEP Intern: This summer, AOOS is supporting a student from the Alaska Native Science and Engineering Program to work on a sleeper shark research project under the direction of Dr. Markus Horning (Wildlife Technology Frontiers). Nadia Barcelona will be sending regular notes from the field. Read her field notes here: <https://aos.org/ansep-intern-working-on-sleeper-shark-research/>

AOOS DATA Portal

We are constantly working to improve the experience of using the AOOS Data Portal. If you have any recommendations for improving the Data Portal experience for your agency, organization or community user needs, please contact Jill Prewitt (prewitt@aos.org)

- **Data Portal Highlight**

Alaska Division of Geological and Geophysical Surveys (AK-DGGS) installed new water level stations at [Kivalina](#) and [Kipnuk](#) this past June. These stations are now streaming real time data on the AOOS hosted [Alaska Water Level Watch \(AWLW\) Data Portal](#). AKDNR-DGGS manages multiple operational water level stations in Alaska ([see full list here](#)).

AOOS ON TWITTER: check us out on Twitter. @AlaskaOOS Follow us. Retweet. ♥



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PROPOSALS/AWARDS

- No new proposals were submitted in this period.
- We received the official award for the EVOSTC 2022-2031 Data Management Program this month.

COMMUNITY OUTREACH

- Sheyna presented an update on the NSF-funded Backyard Buoys project to the Alaska Eskimo Whaling Commission.

CONFERENCES | MEETINGS | PRESENTATIONS

ENGAGEMENT METRICS

Audience Name	Type of Presentation	# of people
Bering Science Spring 2022 Webinar	ACCAP webinar	65
Alaska Harmful Algal Bloom Network	Facilitated monthly meeting and update	20
AHAB Steering Committee	Facilitated bi-monthly meeting	8
Alaska Eskimo Whaling Commission	Update on Backyard Buoys project	30
NSF Convergence Accelerator Expo	Facilitated live presentations for expo	25

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