

Overview of AOOS



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What is AOOs?

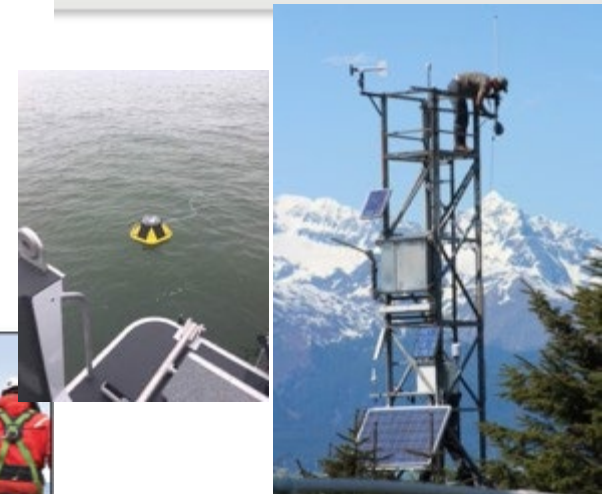
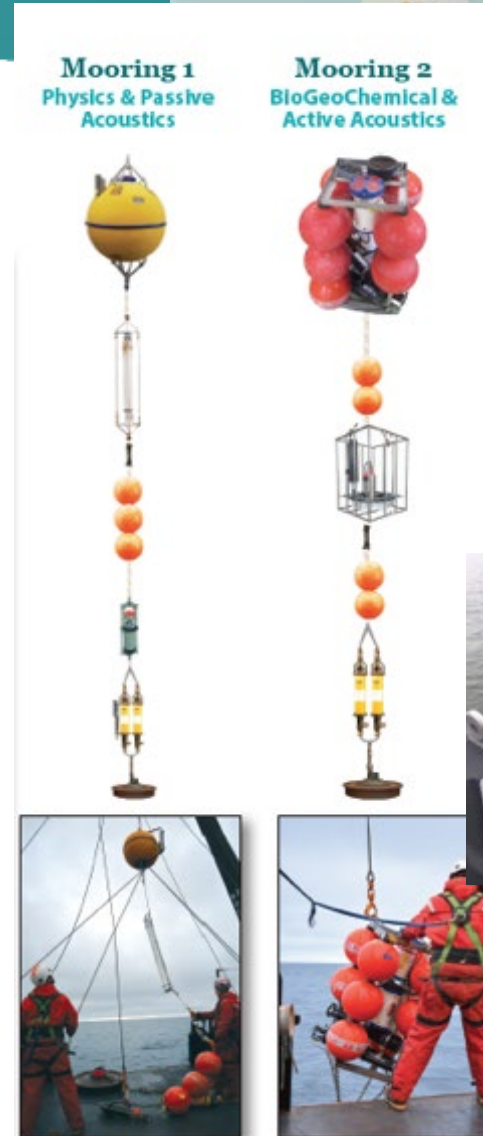
- **Part of Integrated Ocean Observing System (IOOS)**
 - NOAA-funded program, but NOT NOAA!
 - 1 of 11 regional associations
 - Operating since 2003
- **AOOS organizational setup**
 - Mission is to increase observing and forecasting capacity in all regions of Alaska
 - Board of federal and state agencies, academic institutions, research facilities, industry, non-profits, tribal
 - Fiscal sponsor: Alaska SeaLife Center as non-profit
- **AOOS observing activities are highly leveraged**
 - Partners are essential for successful for ocean observing in our region



www.aooos.org

Overview of AOOs Approach

- **Sustained observations and assets**
 - Moorings
 - Gliders
 - High frequency radars (HFR)
 - Ship surveys
- **Fund/test new and innovative technologies**
 - Coastal hazards assets
 - Sofar wave spotter buoys
- **Collaborations and partnerships to find solutions**
 - Collaborative networks
 - Community sampling programs
 - Leverage funding
- **Work with ocean users to collect, use, and show information in a meaningful way**
 - Data portal
 - Incident Response Tools
 - Mariner's dashboards



Examples of how AOOs can serve Alaska communities

- **Support observations from Arctic coastal communities**

- Alaska Arctic Observatory and Knowledge Hub (AAOKH)
- Indigenous Sentinels Network (ISN)
- Sea Ice for Walrus Outlook (SIWO)

- **Support education for next generation**

- Alaska Native Science & Engineering Program (ANSEP) interns
- Barrow Arctic Research Consortium (BARC) Science Fair

- **Community-led programs**

- Alaska Eskimo Whaling Commission (AEWC) wave buoy program
- Water quality community sampling (HABs and OA)



Examples of how AOOs can serve Alaska communities

▪ Data Products

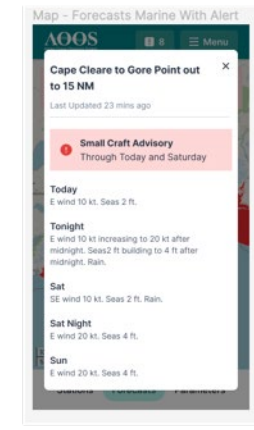
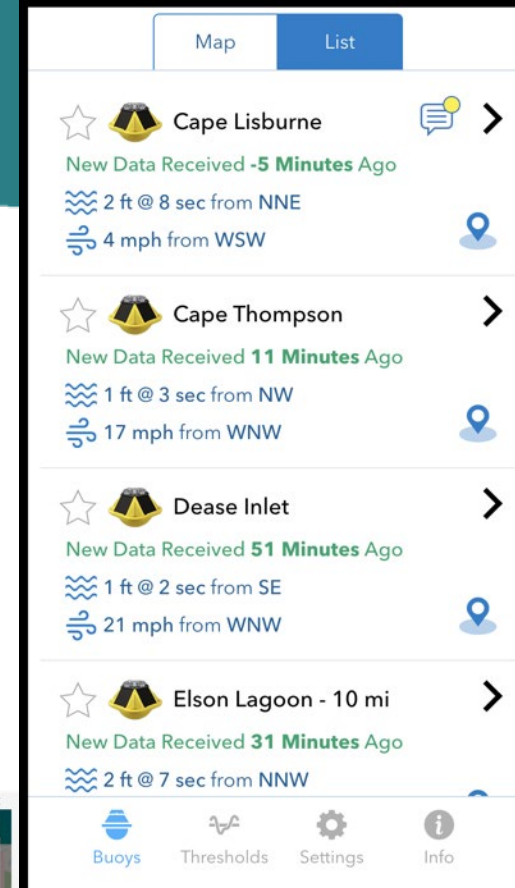
- Backyard Buoy data app: <http://software.apl.uw.edu/proto/BackyardBuoys/app.php>
- Mariner's Dashboards on portal
- Mariner's app
- SIWO weekly sea ice movement predictions
- Arctic Watch (Marine Exchange of Alaska)
- Bering Strait Incident Response Tool

▪ Ocean Assets

- Wave buoys (Nome & Cook Inlet)
- Weather stations on AIS stations
- Webcams
- Water level stations

▪ Collaborative Networks

- Alaska Ocean Acidification Network (<https://aoan.aos.org/>)
- Alaska Harmful Algal Bloom Network (<https://ahab.aos.org/>)
- Alaska Water Level Watch (<https://awlw.aos.org/>)



Ideas for new ways to serve you

- **Publications to summarize scientific information**

- Bering Science example

- **Ocean Information**

- Help with data portal
- Create data view for you based on your needs

- **Travel support**

- We can help with some travel to attend meetings

- **Other**

- Is there a way for AOOS to support collaboration among groups?
- Our mission is to make ocean information useful to you (so that means we are already funded to do this!)



Funding Opportunities

- Bipartisan Infrastructure Law (BIL)
 - \$1.2M over 2 years for equipment upgrades & community projects
 - More coming for years 3-5
- Inflation Reduction Act (IRA)
 - \$8M over 5 years for coastal resilience & workforce capacity
 - Request for Ideas got 88 projects > \$37M
 - Working through the final spend plans

Questions/Contacts

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