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Who is AOOS and how can we best serve co-management groups?

Integrated Ocean Observing System (IOOS)

- NOAA funded program under National Ocean Service (NOS), operating since 2003
- 1 of 11 Regional Associations across U.S.

AOOS organizational setup

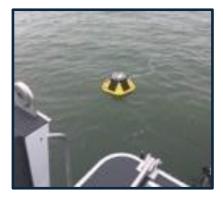
- o Mission to increase observing & forecasting in all regions of Alaska
- Board of federal and state agencies, academic institutions, research facilities, industry, non-profits,
 & Alaska Native Organizations
- o Non-profit organization with 9 staff members

Providing Services and Products to Support our Partners

- Partners are <u>essential</u> for successful ocean observing
- Key partner needs: Improve safety of marine operations, coastal hazards, track climate & ecosystem trends, and monitor water quality

AOOS Approach:

- Sustained observations/assets
- Fund/test new, innovative technologies
- o Collaborations and partnerships to find solutions
- o Collect, use, and house information in a meaningful way



Learn more about our Collaboration Networks

- Alaska Harmful Algal Bloom Network https://ahab.aoos.org/
- Alaska Water Level Watch https://awlw.aoos.org/
- Alaska Ocean Acidification Network https://aoan.aoos.org/
- Alaska Marine Policy Forum https://aoos.org/alaska-issues/alaska-marine-policy-forum/

Data Accessibility and Resources

- Ocean Data Explorer (https://portal.aoos.org/)
- o Backyard Buoys Wave Buoy App https://software.apl.uw.edu/proto/BackyardBuoys/app.php
- o Mariner's Dashboard https://aoos.org/portal-highlights-2/real-time-information-for-current-maritime-conditions



Examples of Alaska Native Partnerships

- Backyard Buoys (https://backyardbuoys.org) partnering with AEWC for wave buoys in villages
- Sea Ice for Walrus Outlook (https://www.arcus.org/siwo) partnering with Eskimo Walrus Commission (EWC) and ARCUS for sea ice prediction movements and observer support
- Arctic Watch Program (https://arcticwatch.org/) partnering with Marine Exchange of Alaska and Kawerak for real-time vessel management system in Bering Strait
- **Skipper Science** (https://www.skipperscience.org/) partnering with Aleut Community of St. Paul Island/Alaska Conservation Foundation for oceanographic information by fisherman & observers
- Alaskan Arctic Observatory & Knowledge Hub (https://arctic-aok.org/) partnering with UAF and Alaskan Arctic coastal community residents
- Nalaguq LLC
 - o Salmon counts using drones: https://nalaquq.com/portfolio/salmon-fish-count/
 - Buoys/drifters: https://nalaquq.com/portfolio/sofar-buoy-project/
- Community sampling and analysis with Sitka, Kodiak, and Alutiiq Pride Marine Institute
 - o Ocean acidification (OA): https://aoan.aoos.org/monitoring/community-sampling/
 - o Harmful Algal Blooms (HABs): https://ahab.aoos.org/how-we-monitor/
- Bering Science publication: https://aoos.org/project/bering-sea-ocean-data-sharing-initiative/
- Workforce development using Inflation Reduction Act (IRA) funds
- Education: Synthesizing scientific data with Indigenous Knowledge
- Travel Support