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Who is AOS 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.

AOS organizational setup

- 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
- Non-profit organization with 9 staff members

Providing Services and Products to Support our Partners

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



AOS Approach:

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

Learn more about our Collaboration Networks

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

Data Accessibility and Resources

- Ocean Data Explorer (<https://portal.aoos.org/>)
- Backyard Buoys Wave Buoy App - <https://software.apl.uw.edu/proto/BackyardBuoys/app.php>
- 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 AEWK 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
- **Nalaquq LLC**
 - 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
 - Ocean acidification (OA): <https://aoan.aoos.org/monitoring/community-sampling/>
 - 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**