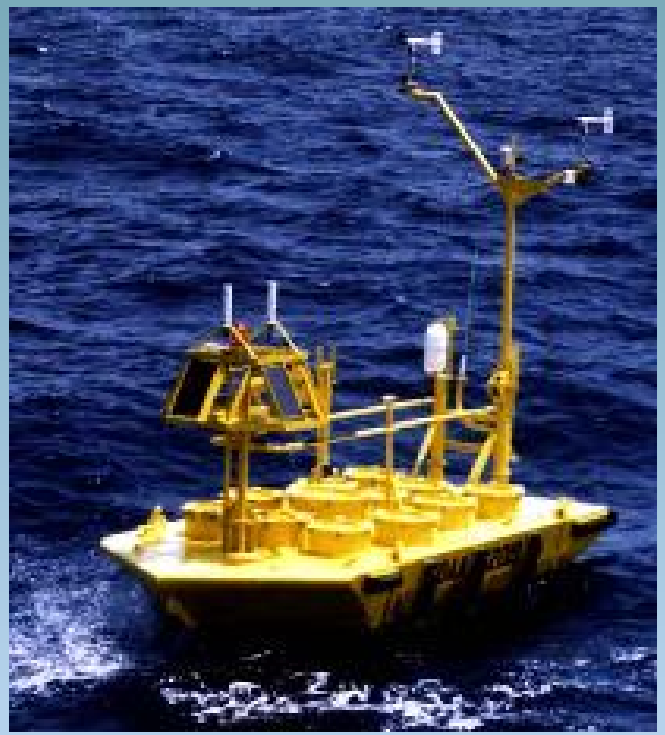
AOOS: Planning for the next 5 years

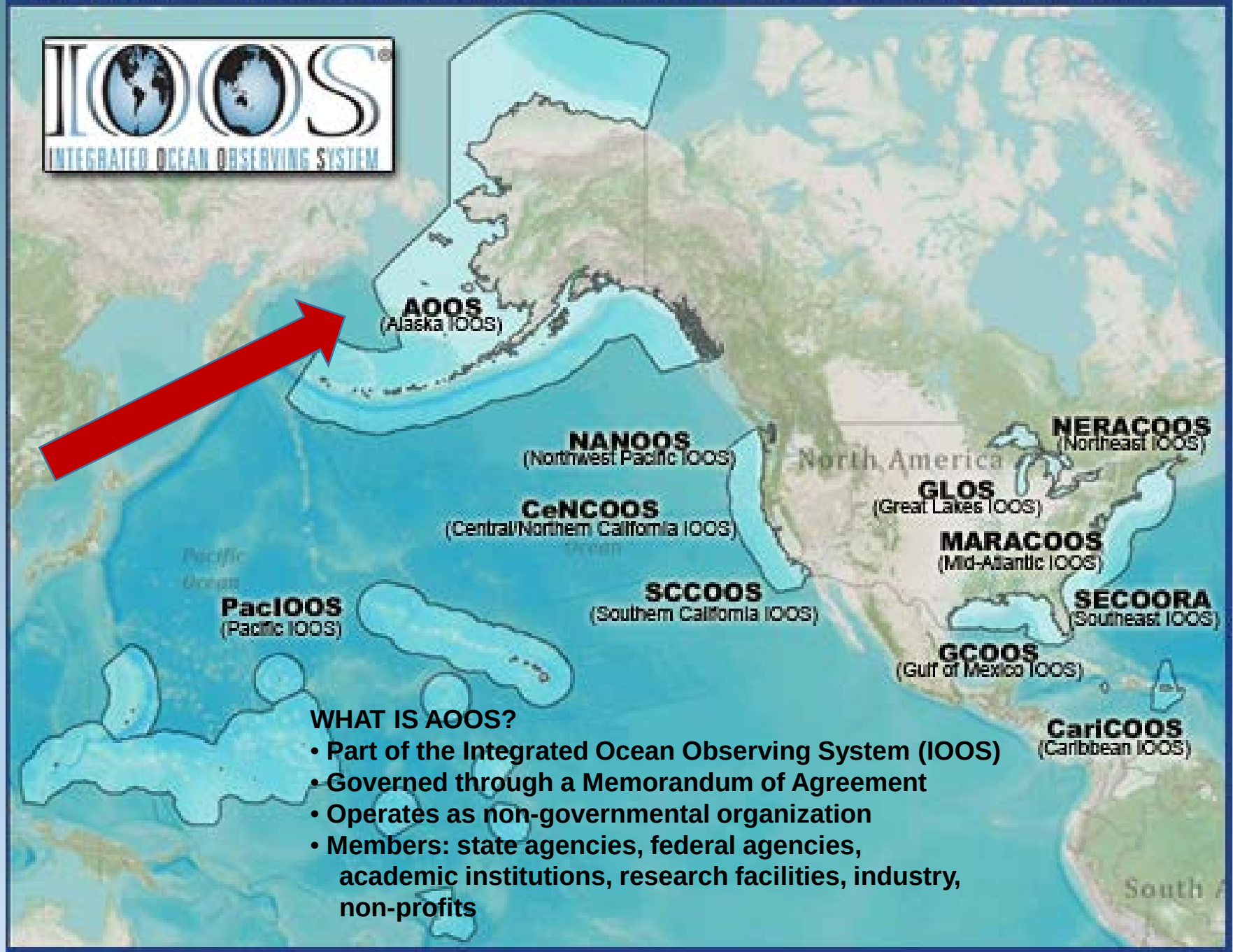


Molly McCammon
AOOS Executive Director
2020

AOOS
Alaska Ocean Observing System

IOOS
Integrated Ocean Observing System

Regional Associations Across the United States



WHAT IS AOOS?

- **Part of the Integrated Ocean Observing System (IOOS)**
- **Governed through a Memorandum of Agreement**
- **Operates as non-governmental organization**
- **Members: state agencies, federal agencies, academic institutions, research facilities, industry, non-profits**

Key Stakeholder Needs

Improve Safety of Marine Operations

- Safety at sea
- Search & rescue
- Spill response & prevention
- Offshore energy

Mitigate Coastal Hazards

- Emergency response & coastal erosion
- Sea level rise & flooding

Track Climate & Ecosystem Trends

- Food security: subsistence, recreational & commercial fishing & hunting
- Commercial fishing
- Impacts of climate change
- SOUND* (NEW)

Monitor Water Quality

- Ocean acidification
- Harmful algal blooms
- Invasive species
- MARINE DEBRIS* (NEW)

Develop Data & Information Products to Support the Above

What does AOOS do?

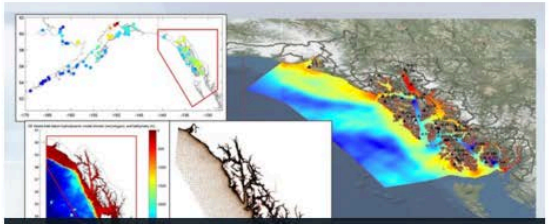
- Increase observing & forecasting capacity & fill gaps: support ADNR's igages, color-coded community flood maps, wave buoys, weather stations on AIS
- Pilot alternative observing approaches: GNSS platforms to fill gaps in NWLON;; hydroball for nearshore bathymetry
- Facilitate working groups & networks; serve convener role: support AK Water Level Watch & coastal mapping strategist
- Host statewide data portal & regional data assembly center to increase access to existing coastal and ocean data: support new AWLW data portal for tiered data
- Package information & data in useful ways to meet stakeholder needs: data views & QAQC of data

Alaska Water Level Watch: Website, Portal & Buildout Plans

Alaska Water Level Watch

Home | About | Data Portal | Resources | Community Monitoring | Annual Meetings

Alaska Water Level Watch



VDatum Efforts in Alaska

Southeast Alaska Model Release/Update The VDatum 4.0.1 release on October 28, 2019 includes support for transformations involving the tidal datums of southeast Alaska (SE AK): local mean sea level (LMSL), mean lower low water (MLLW), mean high water (...

1 2 3 4 5 6 7

Alaska Water Level Watch Features archive

Welcome

The Alaska Water Level Watch (AWLW) is a collaborative group working to improve the quality, coverage, and accessibility to water level observations in Alaska's coastal zone.

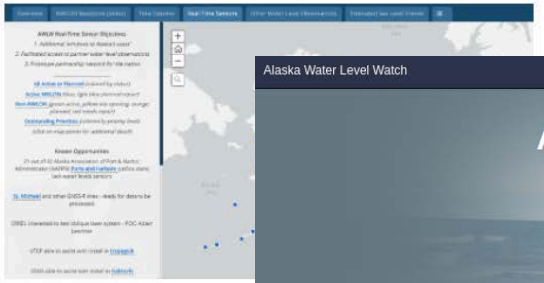
Water level data has many applications that contribute to safe navigation, storm modeling and mapping, tsunami warnings, watches, and advisories, incident response, search and. rescue operations, tidal datums, sea level trends, storm trends, and much more.

Contact Us

For more information regarding the Alaska Water Level Observing Network, contact Jacquelyn Overbeck, Alaska Division of Geological & Geophysical Surveys Coastal Hazards Program:

- Jacquelyn.overbeck@alaska.gov
- Facebook (https://www.facebook.com/AlaskaWaterLevelWatch/)

Water Level Build-Out Plan



Search Photos of Past Storms

Alaska Water Level Watch

Catalog | Map | Data views | Settings | Share | Help | Feedback

ALASKA WATER LEVEL WATCH

EXPLORE WATER LEVEL SENSOR DATA | SEARCH DATASETS

Alaska Water Level Watch is a water level data management system and associated interface to house data from NOAA and the AOOS Water Level Watch Program in tandem. This system mirrors critical functionality of CO-OPS's Tides Online, yet is designed to accommodate a wide range of observational water level data acquired from external sources through a partnership model. The portal is a complimentary extension of NOAA's authoritative National Water Level Observation Network (NWLON), and is under development in direct collaboration with NOAA staff to ensure consistency and compatibility of data products with downstream tools. Increased access to critical water level observation products (real-time stations, short time series, and high water mark measurements) derived from sites with lower accuracy standards or off-specification installations will help to meet a wide range of maritime applications, water resources management, and scientific research needs.

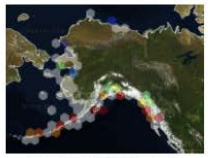
Please use the 'Feedback' tab in the upper right corner to help improve our services

Explore map | Catalog

Interactive map

Data Views

Explore highlighted views below. Or, create, save, and share your own custom views.



Featured Source: NOAA CO-OPS Stations

Featured Station: Kotzebue, Alaska

Featured Data View

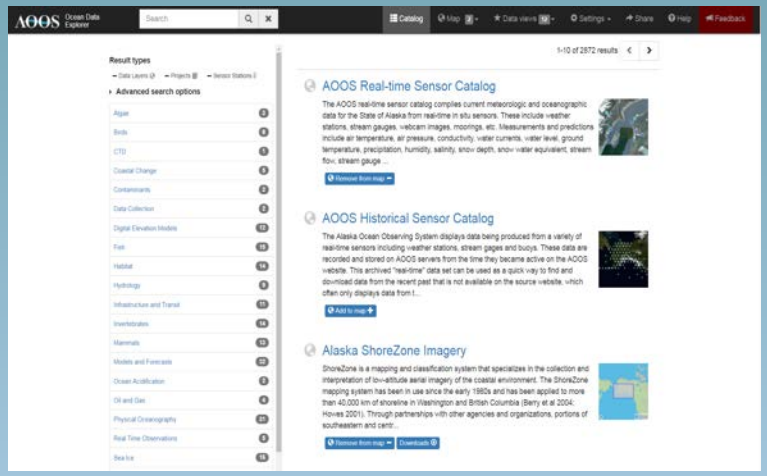
AOOS Data Assembly Center & Ocean Data Explorer

Map

Integrate & visualize data from many sources:
Grids, GIS, mobile sensors, platforms, products

Catalog

Search , metadata, & data download



Data Views

Rapidly assimilate & compare different data streams

Data Amount

- *2,300 data layers*
- *1,500 sensors*
- *35 parameters*
- *20+ data sources*
- *5 million obs/week*

U.S. INTEGRATED OCEAN OBSERVING SYSTEM
CERTIFIED
REGIONAL ASSOCIATION

How you can contribute to the AOOS plan

- Contribute to AWLW buildout plan: https://aoos.org/alaska-water-level-watch/ or contact Jaci Overbeck at jacquelyn.overbeck@alaska.gov
- Submit ideas for the AOOS plan or contact Dr. Carol Janzen, AOOS Operations Director, directly at Janzen@aoos.org
- For more information, go to aoos.org website

THANK YOU
Molly McCammon
www.aoos.org