Looking for sea ice forecasts?

Wondering what the weather conditions are like up the coast?

Worried how shipping traffic overlaps with subsistence species in your area?
Learn all this and more at http://portal.aoos.org/arctic.php
The Alaska Ocean Observing System (AOOS) provides easy access to real-time conditions, forecasts, and a variety of other ocean and coastal data. As part of the national Integrated Ocean Observing System, AOOS is a hub for finding and viewing map-based data. Visit www.aoos.org.

The AOOS Arctic Portal houses data from the Bering, Chukchi and Beaufort Seas, and was produced by a project called STAMP (see last page). Inside the portal, you can search for real-time weather conditions, sea ice forecasts, species distribution, historic ship tracks, oil & gas exploration locations, future climate projections, and more. One of the biggest strengths of the portal is the ability to look at different types of data on the same map.

This screenshot from the AOOS Arctic Portal shows seasonal bowhead whale distribution (blue, green, yellow), whaling community hunting areas (red), and active oil and gas leases (pink), as well as sea ice extent (white).

**FEATURES**

- Search for available data
- Choose your own base map (NOAA charts, topography, etc)
- Add, remove and adjust data layers in your map view
- View multiple data layers together
- See change over time using an interactive time slider
- Download data to your own computer
When you enter the Arctic Portal, you can begin at the Data Layer Catalog or the Interactive Ocean Portal.

Once you have found a data layer you’d like to view, you can click “Portal” to display it on the larger map. You can always return to the Data Layer Catalog to add more data.

### DATA HIGHLIGHTS

- Real-time weather conditions and webcams
- Sea ice coverage (historic and forecasted)
- Species distribution
- Social and economic data
- Locations of oil and gas activity
- Topography and bathymetry
- Administrative boundaries and human infrastructure (harbors, air strips)
- Locations of research instruments
- More data added monthly
PORTAL HIGHLIGHTS

FIND SEA ICE DATA - PRESENT AND PAST

The Arctic Portal offers several sea ice data layers, including both current forecasts and historic records going back to the 1850's. You can use an interactive time slider to look at daily or monthly maps and watch how sea ice has changed over time. This “time slider” feature is available for other time-series data sets too.

FLY THE COAST

For certain Arctic locations, you can “fly the coast” thanks to video and photos from the ShoreZone Alaska project. If you click on the red flight line in your area of interest, a window will appear and automatically start streaming video and photos. This imagery is currently available from Wales to Point Hope, as well as St. Lawrence Island. More will be added as it becomes available.

OVERLAY DIFFERENT DATA SETS

Multiple data layers can be placed on the same map, which can provide additional insights. This map shows Alaska shipping lanes overlaid by summer halibut subsistence areas for St. Lawrence Island. The Arctic Portal will soon have a database of historic ship tracks thanks to data from the Marine Exchange of Alaska.
The AOOS Arctic Portal was made possible by a project called STAMP – Spatial Tools for Arctic Mapping and Planning. This project involved multiple partners and a 9-member advisory committee which communicated regional needs. NOAA's Regional Ocean Partnership program provided the funding for development over three years, and AOOS is committed to the long-term maintenance and expansion of the portal. Learn more at http://www.aoos.org/stamp/.

**STAMP PARTNERS**
- Alaska Ocean Observing System
- Axiom Data Science
- University of Alaska Anchorage - ISER
- University of Alaska Fairbanks - ACCAP
- The Nature Conservancy

**STAMP ADVISORS**
- Alaska Department of Fish & Game
- Audubon
- Kawerak, Inc.
- NOAA National Marine Fisheries Service
- North Pacific Fisheries Management Council
- North Slope Borough
- Northwest Arctic Borough
- Norton Sound Economic Development Council
- US Coast Guard

**FEEDBACK WELCOME**
The AOOS data portal is continually being updated with new features. We appreciate your thoughts and suggestions — look for the red feedback tab on the left side of each data tool, or contact us directly.

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