



Working together to understand the depths of Alaska's vast seascape

# Seascope Alaska: Tracking Regional Mapping Campaign Progress

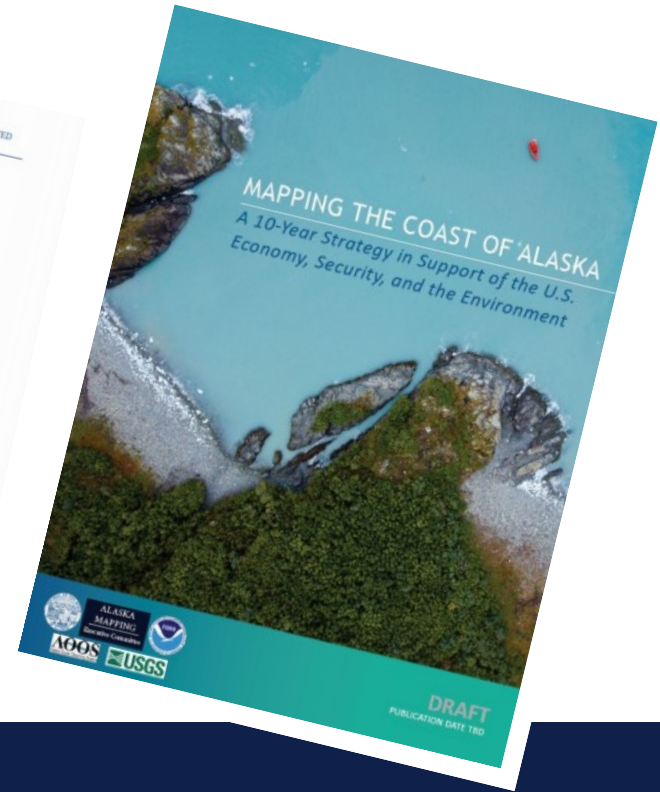
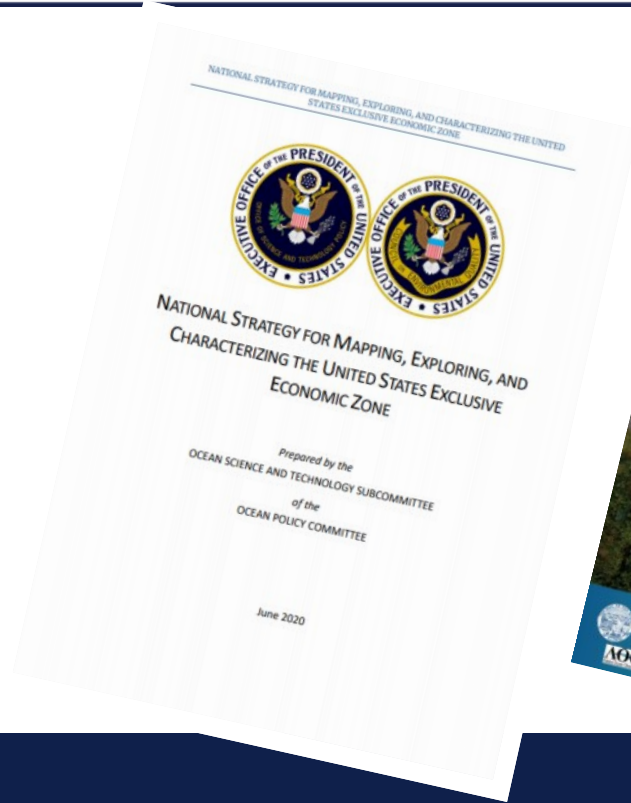
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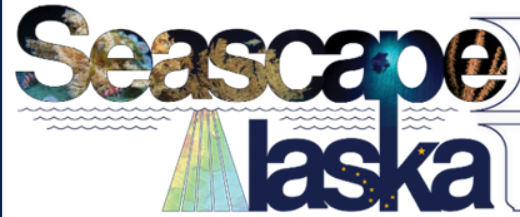
Thalia Eigen  
NOAA Integrated Ocean and Coastal Mapping

Map Once, Use Many Times!

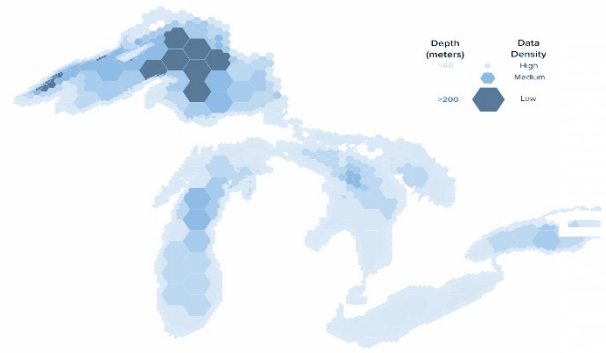
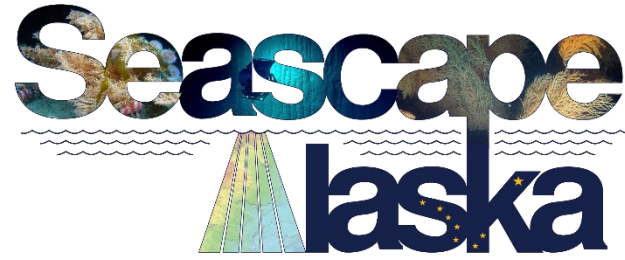
## Mapping for:

- Safe Navigation
- Fisheries Management
- Offshore Wind Siting
- Marine Debris
- Hazard Mitigation
- Critical Minerals
- And more!



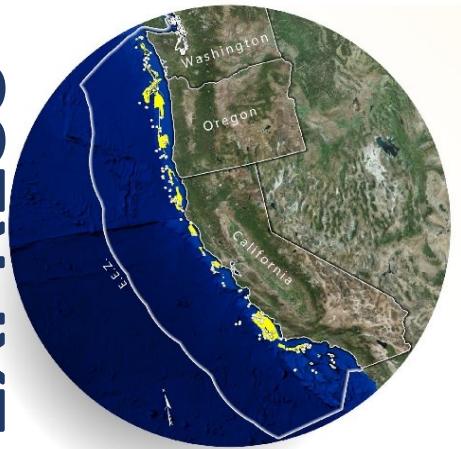


# Regional Mapping Campaigns



Lakebed2030

EXPRESS





Accessible, high quality data and products



Data and products follow best practices



Members work together to achieve more



Innovation is encouraged



Plans and progress are shared broadly

**Share** all available data with centralized repositories, like NCEI's Bathymetry and Marine Geophysical Archives and OCM/Digital Coast's LIDAR Data Access





US Army Corps  
of Engineers®



Alaska Center for Energy and Power



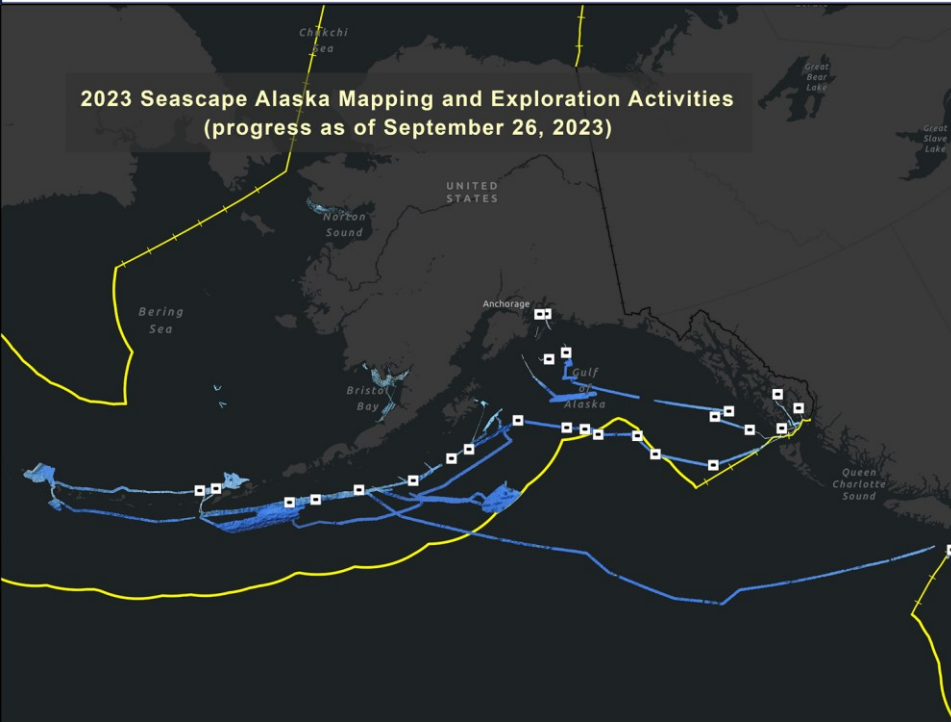
SAILDRONE



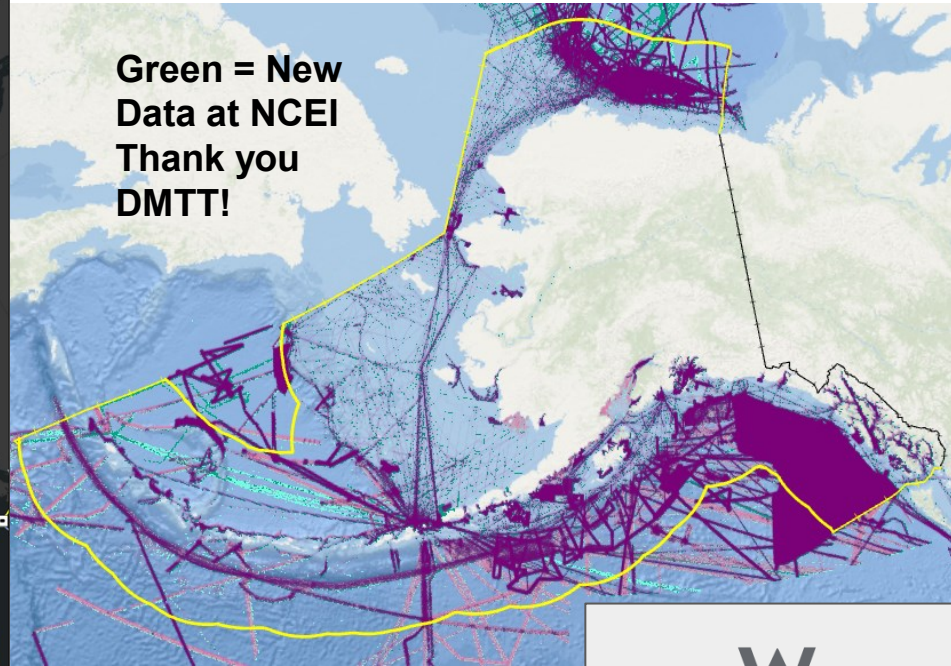
### Seascope Alaska Sub-Teams:

- Data Management Technical Team
- Aleutians and Exploration Planning Team
- Offshore Alternative Energy Data Team

2023 Seascope Alaska Mapping and Exploration Activities  
(progress as of September 26, 2023)



Green = New  
Data at NCEI  
Thank you  
DMTT!



### How do we communicate our accomplishments?



Image Credit: NOAA

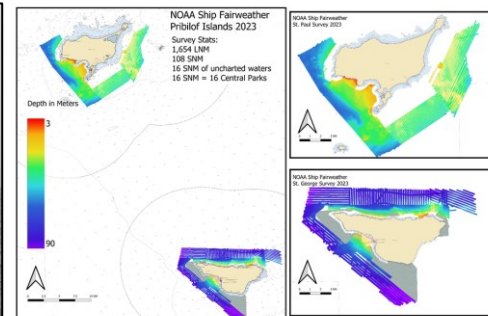


Image Credit: NOAA

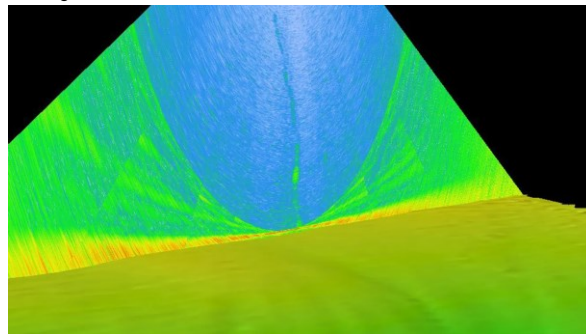


Image Credit: Amanda Bittinger, Sunset Hydrographics

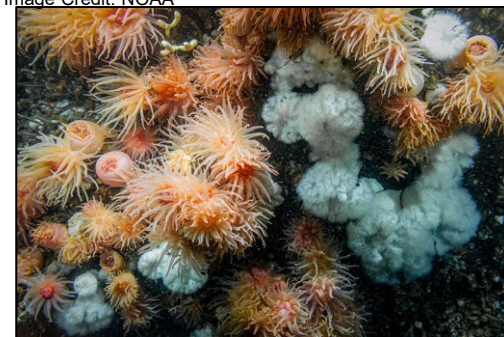
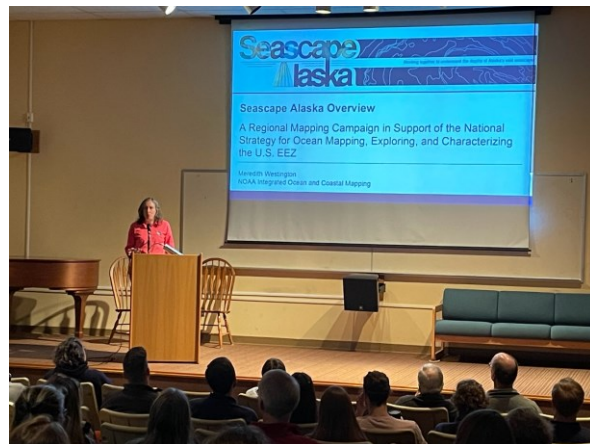


Image Credit: NOAA Ocean Exploration, Seascapes Alaska



**Seascapes  
Alaska**

Seascapes Alaska Overview

A Regional Mapping Campaign in Support of the National Strategy for Ocean Mapping, Exploring, and Characterizing the U.S. EEZ

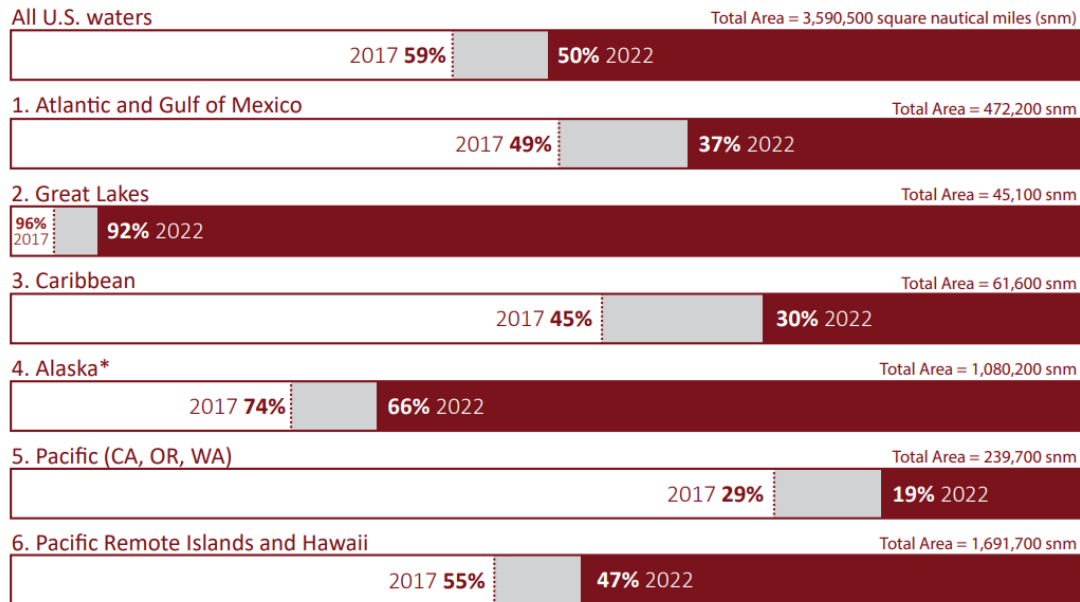
Vanessa Westergren  
NOAA Integrated Ocean and Coastal Mapping



## Why Track Progress?

- To recognize achievements in relation to goals
- Communications to the general public and interested parties
- Highlighting Data Gaps

### Percent of U.S. unmapped seafloor at 100-meter resolution in 2022





\* The Arctic portion of U.S. waters in the Alaska region is 583,600 snm and 76% unmapped in 2022.



## Goals for Progress Tracking:

- Data Viewer
- Progress Reports
- Updating Existing Tools

Working together to understand the depths of Alaska's vast seascape

Welcome to the Seascape Alaska Data Viewer

Explore data collected in support of this regional mapping campaign

**Navigation Menu**

**Seafloor Mapping**

Seascape Alaska began in 2021 in response to the 2020 National Strategy for Mapping, Exploring, and Characterizing the United States Exclusive Economic Zone and the Alaska Coastal Mapping Strategy. With Alaska's coastal and ocean waters at just over 1 million square nautical miles in size and 68% unmapped, the campaign seeks to fully map U.S. waters deeper than 40 meters by 2030 and coastal waters by 2040 through collaborative efforts among federal, tribal, state, and non-governmental partners with a wide range of interests and dependencies on mapping data. This campaign brings the Interagency Working Group on Ocean and Coastal Mapping and the Interagency Working Group on Ocean Exploration and Characterization federal members together with state, tribal, academic, private and other non-government sectors to share mapping plans and advance technical innovations to more efficiently map and characterize the area.

[Learn more about Seascape Alaska](#)

MAP showing select multibeam bathymetry contributed to NCEI  
+  
footprints of recently collected, but not yet shared data

\*Pop-ups to show survey ID, year, ship, SNM area mapped, and link to data at NCEI\*

Campaign Metrics


# of Days at Sea (Expedition/Project Tracking Metric)

SNM of high resolution seafloor mapping completed (Expedition/Project Tracking Metric)

SNM and total uncompressed size in GB of high resolution seafloor mapping data rescued (Data Mgmt TT metric)

Pie chart showing different contributions of bathymetry at 0 to 40m and 40m and deeper (from BGA reporting tool)

Red bar graph of unmapped % progress w/ link to relevant Progress Report



Action: Add to Running List Below

## Potential Seascope Alaska Progress Metrics:

- Nautical Miles Traveled
- Seascope AK Designated Ship Days
- Active Science Days
- Days in the Arctic
- Seafloor area mapped → Square nautical miles and linear nautical miles (if available) of new mapping data (gaps filled)
  - New features mapped
  - New data collected
- ROV Dives (or Camera transects?) and depths
- # of CTD Casts
- # of XBT Casts
- # of Expeditions
- Biological Samples Collected
- Geological Samples Collected
- Water samples collected for eDNA (and shared with the Smithsonian?)
- 'Interesting' imagery or observations (range extensions, geological formations, new species, etc)
- Public engagement (scientists involved, views on feeds and web content, any news stories, stakeholder visits, outreach presentations given and audience count)

**Group and one-on-one collaboration with interagency and multisectoral stakeholders is important to ensuring all goals are being met**

## Tracking Bins:

- *Expedition/Project*: General information for each leg
- *ROV Dive*: Length, depth bands, biological communities, etc.
- *Data Management Technical Team*: Data rescue – external link to data, data types, uncompressed size
- *Communications*: news articles, publications, outreach events, etc.

Campaign Tracking ID	UN DECADE YEAR (July 1 - June 30)	FISCAL YEAR (Oct 1 - Sept 30)	CALENDAR YEAR	DATES	REGION	PROJECT NUMBER	PROJECT NAME	SHIP	ORGANIZATION(S)
23OCSFW1	23-24	23-24	2023	April-May, Sept-Oct	Gulf of Alaska	OPR-0392-FA-23	Approaches to Revillagigedo Channel	NOAA Ship Fairweather	NOAA OCS
23OCSFW2	22-23	2023	2023	May-June	Eastern Bering Sea	OPR-R331-FA-23	Togiak Bay	NOAA Ship Fairweather	NOAA OCS
23ETRAC1	23-24	2023	2023	June-August	Arctic (Chukchi-Beaufort Seas)	OPR-R390-KR-23	Approaches to Nome	NOAA Contractor, eTrac	NOAA OCS
23OCSFW3	23-24	2023	2023	June-August	Eastern Bering Sea	OPR-R344-FA-23	Pribilof Islands	NOAA Ship Fairweather	NOAA OCS
23TRSND1	23-24	2023	2023	May-July	Eastern Bering Sea	OPR-R340-KR-23	Bristol Bay	NOAA Contractor, Terrasond	NOAA OCS
23SSAFW1	22-23	2023	2023	June	Gulf of Alaska	OPR-P337-FA-23	Seascope Alaska (USGS-Kodiak), Leg 1	NOAA Ship Fairweather	NOAA OCS/USGS
							Seascope Alaska		

+ ≡ Expeditions/Project Tracking ▾ ROV Dive Tracking ▾ Data Management TT Tracking ▾ Communications/Outreach Track

Depth (m)	Min Depth (m)	Dive Duration	Bottom Time	Water Column Time	High Diversity Present	Corals/ Sponges Present	Chemo Community Present
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## Challenges:

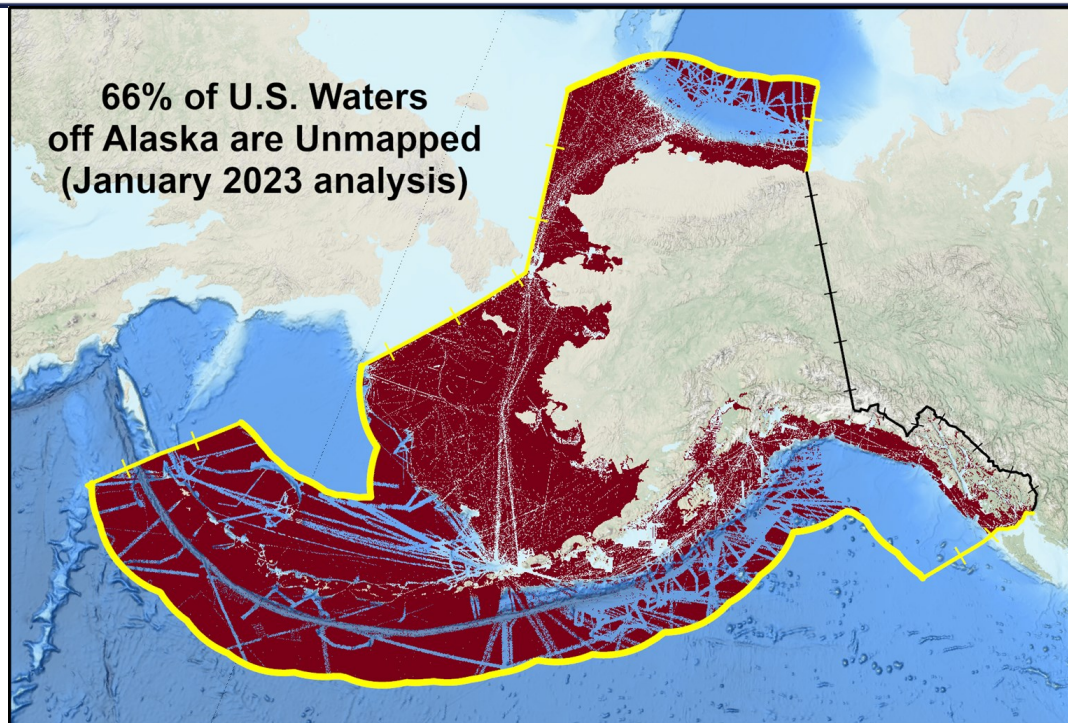
- How to include certain data types
- Collecting and managing data
- Time and Effort!

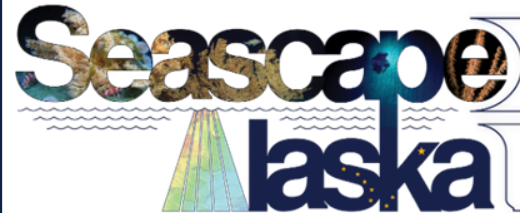
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325	23AFSCWOL1
326	23AFSCWOL1
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330	23AFSCWOL1



### Next Steps:

- Streamlining data collection and management
- Developing data visualizations
- Bathymetry Coverage Report Updates
- Creating communications deliverables





**Thank you!**

**Factsheet** at

[https://iocm.noaa.gov/documents/Seascope+Alaska+Factsheet\\_March2023.pdf](https://iocm.noaa.gov/documents/Seascope+Alaska+Factsheet_March2023.pdf)

**StoryMap** at

<https://storymaps.arcgis.com/stories/094abb14281e4b2489146a3f3e030961>

**Questions?**

**Would you like to join and participate?**

For more information on **Seascope Alaska**, contact  
Thalia.Eigen@noaa.gov and Meredith.Westington@noaa.gov