



NOAA Office of Coast Survey

Field season 24/25

LCDR Caroline Wilkinson, NOAA



National Ocean Service (NOS)



National Environmental Satellite, Data, and Information Service (NESDIS)

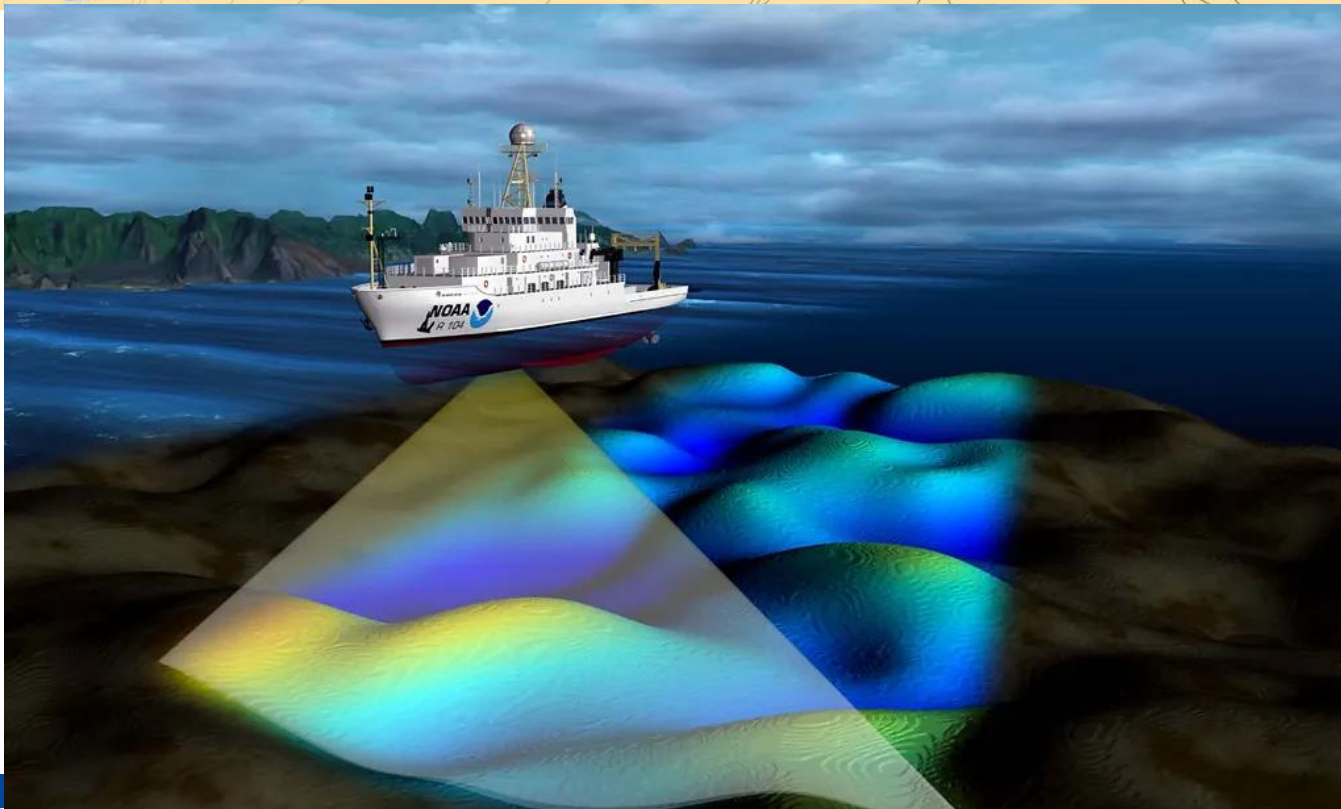
Office of Marine & Aviation Operations (OMAO)

National Weather Service (NWS)

National Marine Fisheries Service (NMFS)

Office of Oceanic & Atmospheric Research (OAR)





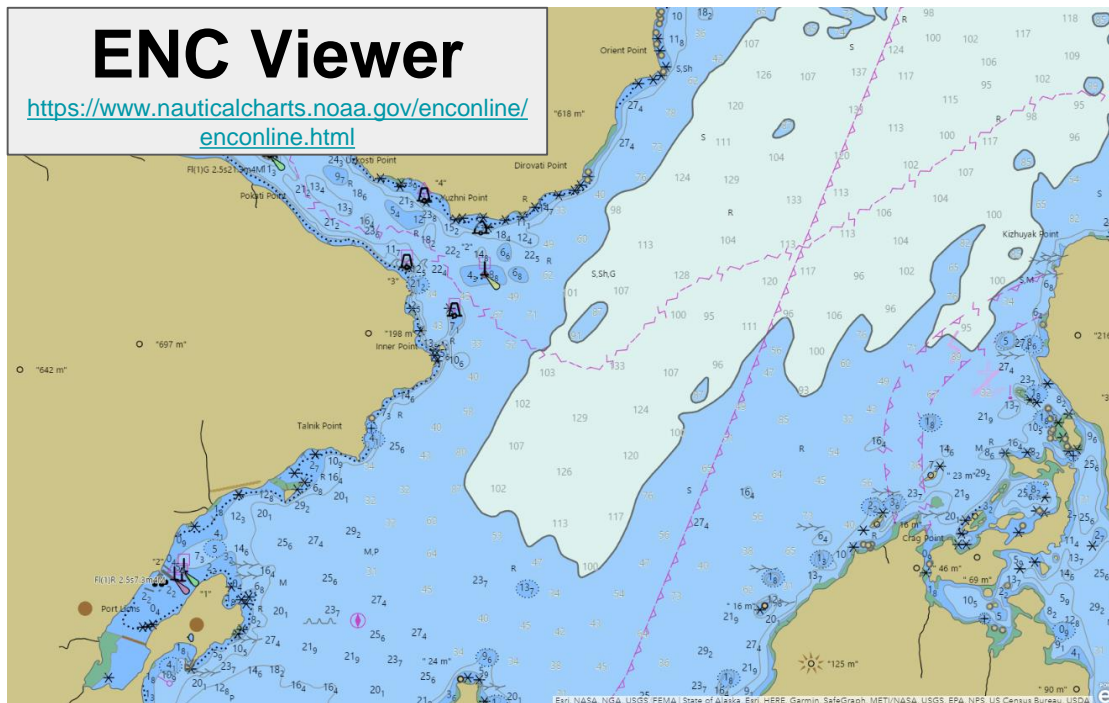


NOAA Ship *Fairweather* & *Rainier*



ENC Viewer

<https://www.nauticalcharts.noaa.gov/enonline/enonline.html>



Bathymetric Data Viewer

<https://www.ncei.noaa.gov/maps/bathymetry/>

National Centers for Environmental Information
Bathymetric Data Viewer

Layers

- Bathymetric Surveys
 - Multibeam Survey Tracelines
 - Multibeam Survey Footprints
 - Multibeam Bathymetry Mosaic
 - NOAA NOS Hydrographic Data
 - All Surveys with Digital Data
 - Surveys with Bathymetric Altimeter Grids (BAGs)
 - Surveys without Digital Data
 - BAG Color Shaded Relief
 - Single-Beam Surveys
 - Single-Beam Sounding Density
- Search Bathymetric Surveys [Reset]
- Crowdsourced Bathymetry Files [Reset]
- Search CSB Files [Reset]
- U.S. Bathymetry Coverage and Gap Analysis

Digital Elevation Models

- DEM Footprints
- DEM Color Shaded Relief
- All DEMs
- Continuously Updated Digital Elevation Model (CDEM) Bathymetric Topographic Tiles

Coastal Lidar

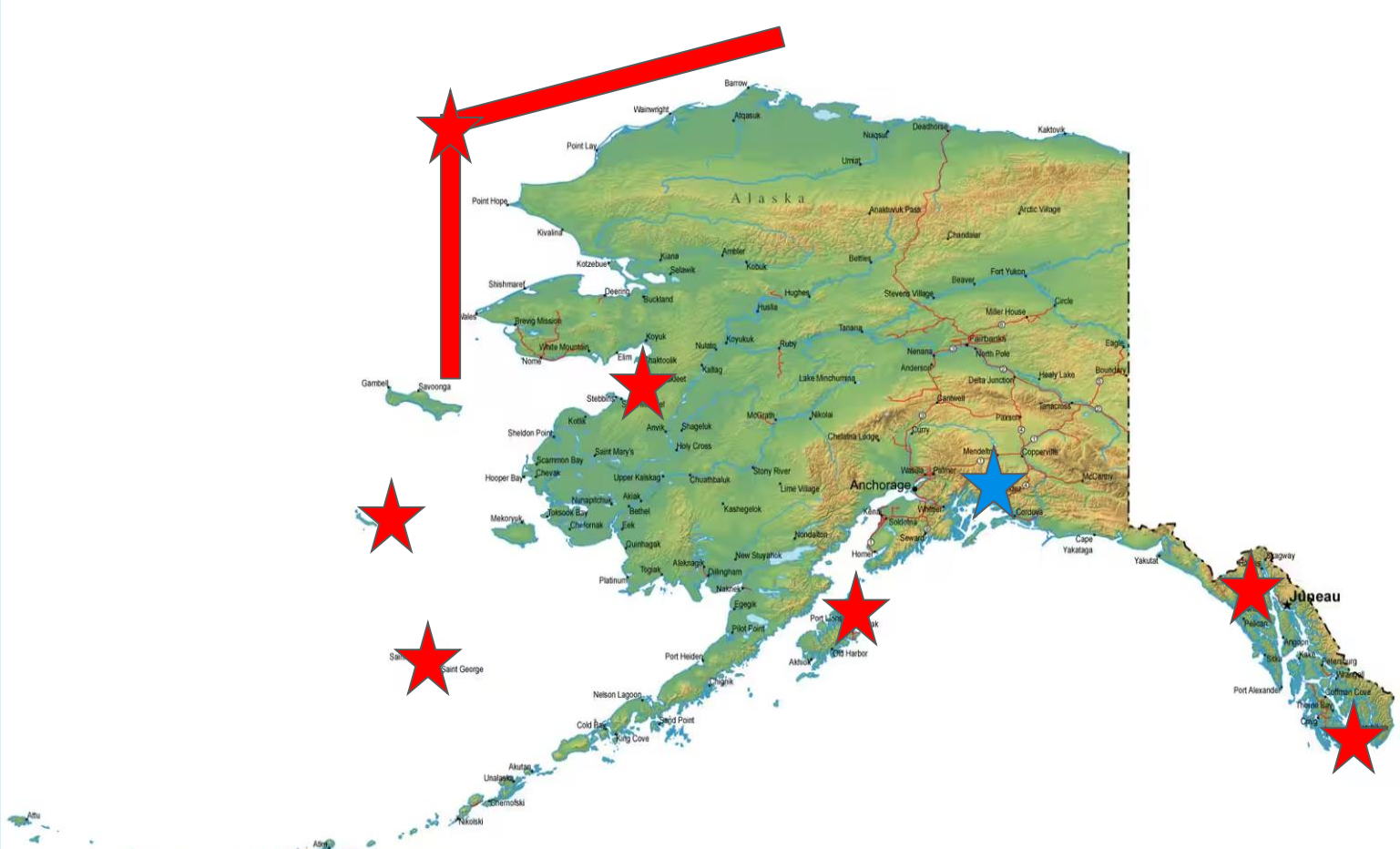
- Topo-Bathy/Bathy Lidar Datasets

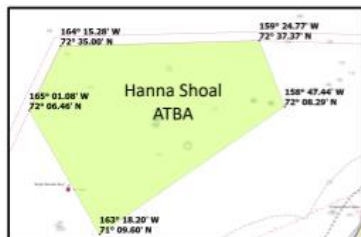
Grid Extract
More Information
Help

Navigation: Identify, Basemap, Options, Mercator, Arctic, Antarctic

Footer: Sitemap | Privacy Policy | Freedom of Information Act | Information Quality | Disclaimer | Take Our Survey | Department of Commerce | NOAA | NESDIS | Contact Us

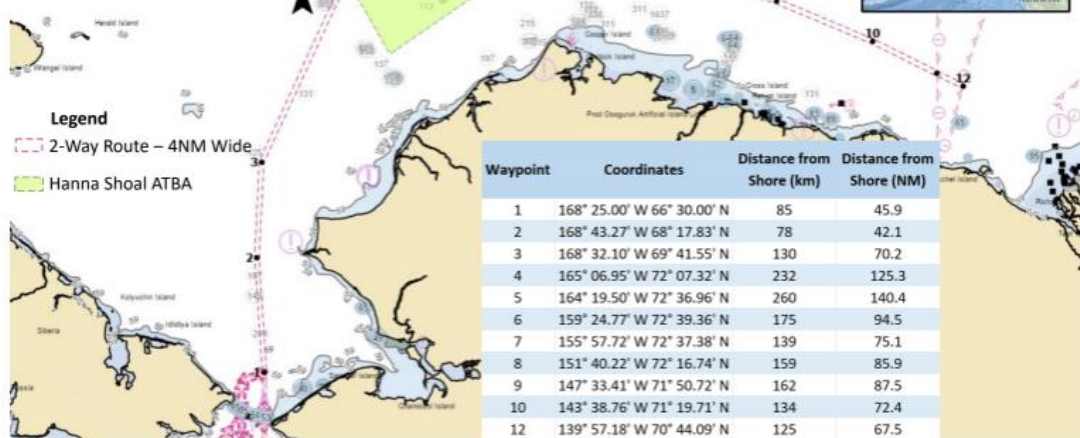
NOAA Office of Coast Survey 2025 Survey Plans





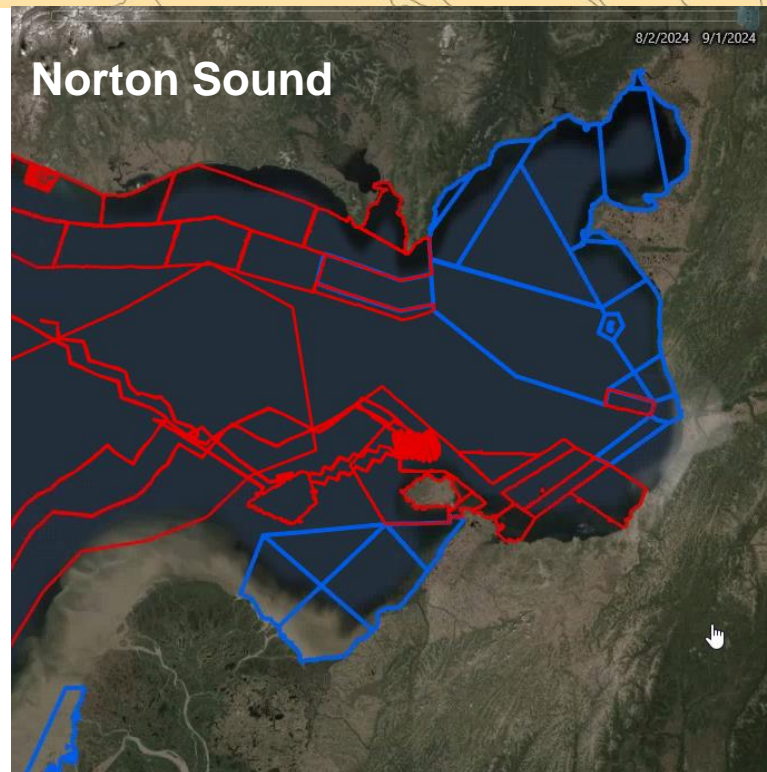
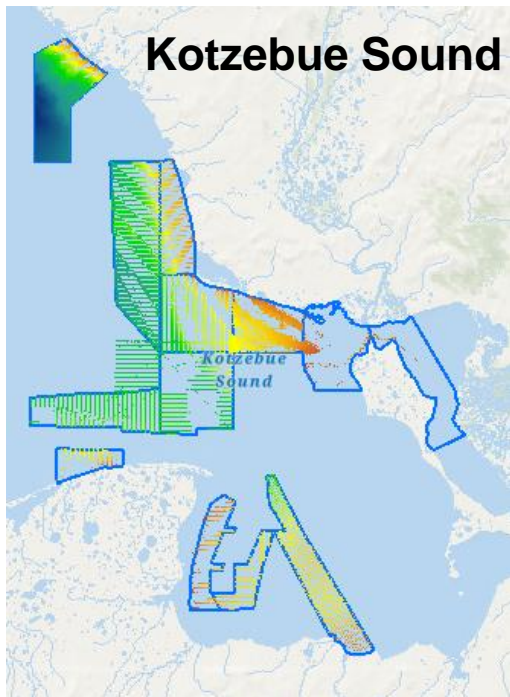
Alaskan Arctic Coast Port Access Route Study Routing Measure Update

In order to increase maritime safety, protection of the environment, and preservation of cultural resources, all ships 400 gross tonnage and upward should avoid the areas bounded by the lines connecting the following geographical positions

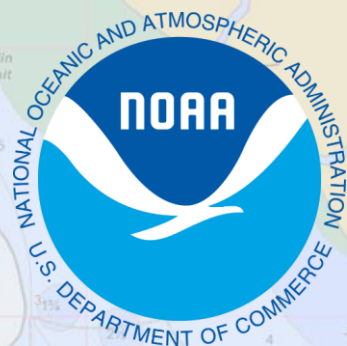
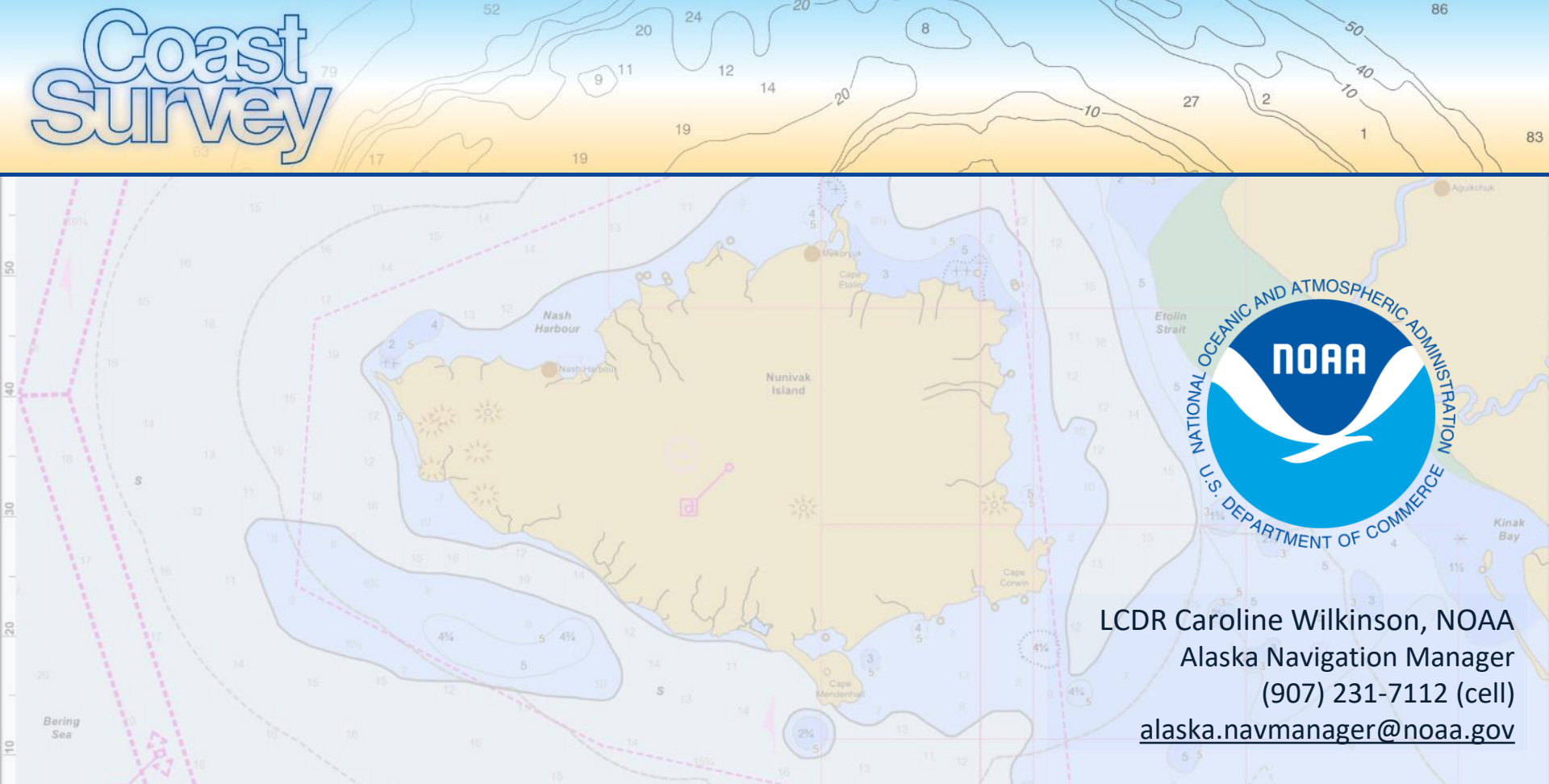


- Legend**
- 2-Way Route – 4NM Wide
 - Hanna Shoal ATBA

Waypoint	Coordinates	Distance from Shore (km)	Distance from Shore (NM)
1	168° 25.00' W 66° 30.00' N	85	45.9
2	168° 43.27' W 68° 17.83' N	78	42.1
3	168° 32.10' W 69° 41.55' N	130	70.2
4	165° 06.95' W 72° 07.32' N	232	125.3
5	164° 19.50' W 72° 36.96' N	260	140.4
6	159° 24.77' W 72° 39.36' N	175	94.5
7	155° 57.72' W 72° 37.38' N	139	75.1
8	151° 40.22' W 72° 16.74' N	159	85.9
9	147° 33.41' W 71° 50.72' N	162	87.5
10	143° 38.76' W 71° 19.71' N	134	72.4
12	139° 57.18' W 70° 44.09' N	125	67.5



Coast Survey



LCDR Caroline Wilkinson, NOAA
Alaska Navigation Manager
(907) 231-7112 (cell)
alaska.navmanager@noaa.gov



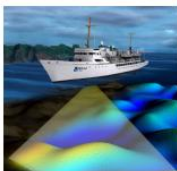


FINAL PROGRAMMATIC ENVIRONMENTAL IMPACT STATEMENT (PEIS) FOR SURVEYING AND MAPPING PROJECTS IN U.S. WATERS FOR COASTAL AND MARINE DATA ACQUISITION

UNDERWATER SOUND AND MARINE MAMMALS



- Underwater sound from human activities adds to the ambient sound level of the ocean which includes sounds from natural biological sources such as marine life and natural physical sounds such as weather.
- NOS activities that produce underwater sound include vessel operations and use of active acoustic equipment such as echo sounders and Acoustic Doppler Current Profilers (ADCPs).



Multibeam Echo Sounder

Marine mammals are sensitive to increasing sounds in the ocean because they use sound for biological functions such as communicating, navigating, searching for food, and avoiding danger.

Sound from human activities has the potential to interfere with these functions when there is an overlap between the manmade sound source and the frequencies of sound used by animals for biological functions. Masking occurs when interfering sounds reduce an animal's ability to hear sounds required for biological functions.

Approximate Underwater Hearing Range of Marine Mammals in U.S. Waters

Cetaceans	Pinnipeds	Sirenians	Fissipeds	
Whales, dolphins, and porpoises	Seals, sea lions, and walrus	Manatees	Sea otters	Polar bears
High Frequency: 275 Hz - 160 kHz Mid Frequency: 150 Hz - 160 kHz Low Frequency: 7 Hz - 35 kHz	75 Hz - 75 kHz	5 kHz - 60 kHz	< 32 kHz	< 25 kHz
				



MARINE MAMMAL SIGHTING


 NOAA/NMFS/AFSC/NMML
 Platforms of Opportunity
 7600 Sand Point Way NE
 Seattle, WA 98115

Observer(s) Jon Sircy	Vessel Name Rosejon	Cruise Number	Permit Number
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year 24	month 07	day 03	local time (24 hr clock) 11:00	+/- GMT <input type="checkbox"/>	latitude 66° 42' 9" N	longitude 163° 45' 2" E	W
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Sighting Conditions: excellent good fair poor

Beaufort +/- water temp. 4.4°C

Species (Please fill out a form for each species) Seal confidence sure likely unsure

Sighting Cue The seal's head surfaced and looked @ us for a few seconds before diving under water

Closest Approach (in meters) 100

Number Sighted: best estimate 1 minimum no. 1 maximum no. 1

Narrative: Make identifications only on specific features seen. Mention them here. Include body features, markings and coloration, associated organisms, elaborate on behaviors, etc. The most valuable sightings contain a good amount of detailed information.

Seal's head popped up out of the water about 120 yards off the starboard bow. After a few seconds the seal dove under the water and was not seen again.

Sketches: When possible, make a sketch noting pigmentation, anatomical features, scarring, posture, anatomical anomalies, group positioning, etc. (see silhouettes on other side).



BODY LENGTH ESTIMATE

- <3m (10')
- 3-8 m (10-25')
- 8-16 m (25-50')
- 18-26 m (50-80')
- >26 m (>80')

Some common behaviors

(check all that apply)

SMALL CETACEANS

- Bow riding
- Leaping entirely out of water
- Porpoising (swimming fast, body out of the water)
- Rooster-tailing (usually a tail's porpoise cue)
- Slow rolling

LARGE CETACEANS

- Blow visible from a distance
- Breaching
- Flipper slapping
- Group feeding
- Lob-tailing
- Spy-hopping
- Tail raised on dive
- Side wake riding
- Stern wake riding

PINNIPEDS

- Jug handle (flippers in air)
- Porpoising (swimming fast, at least partially out of the water)
- Rafting
- Spooked from haulout
- Vocalizing

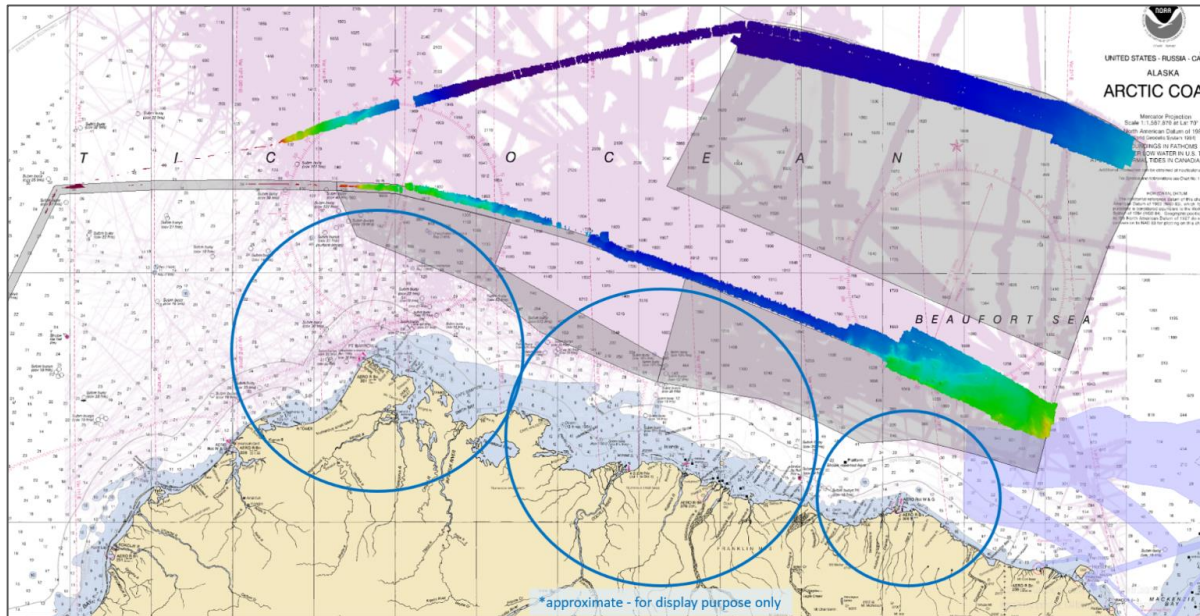
Fishing Interactions

Please fill out the Marine Mammal Interaction and Specimen Form for all fishing interactions

- Contact with gear
- Contact with vessel
- Entangled in gear
- Feeding on discards
- Feeding from gear

Photos/Video (optional)

- photographs (list filenames)



HLY2402 PARS = 2794 LNM

HLY2403 ECS = 1104 LNM

~50% unmapped (per bathy gap analysis)

<https://gis.charttools.noaa.gov/bathy-coverage-report/>



Blog post: <https://nauticalcharts.noaa.gov/updates/interagency-science-team-collects-ocean-and-weather-data-in-the-arctic-aboard-u-s-coast-guard-cutter-healy/>

Volcanic-like Feature

