

## **Discoveries in the Arctic:**

Overcoming Challenges to Map the Arctic Port Access Route
Alaska Geosummit

LCDR Caroline Wilkinson, NOAA











UNIVERSITY of WASHINGTON





Center for Coastal and Ocean Mapping
Joint Hydrographic Center (\*\*)

### **Products**





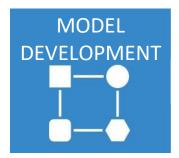


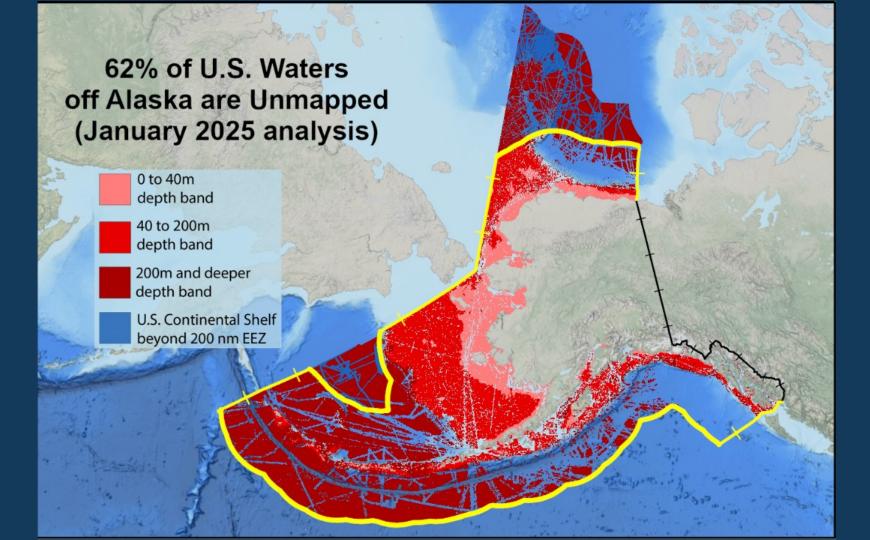
### **Services**







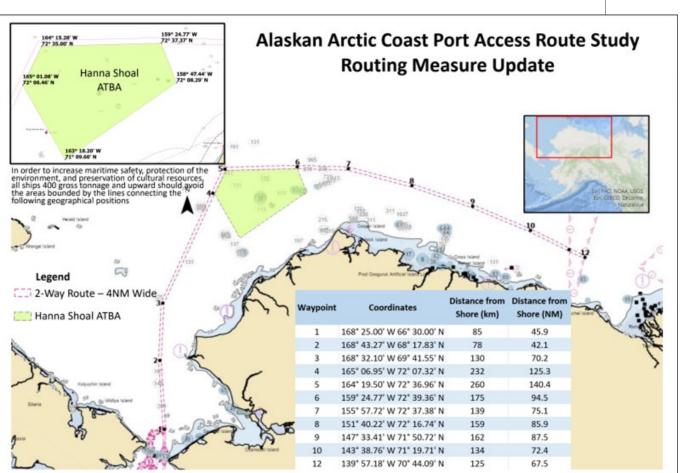




Alaskan Arctic Coast Port Access Route Study

(AACPARS)











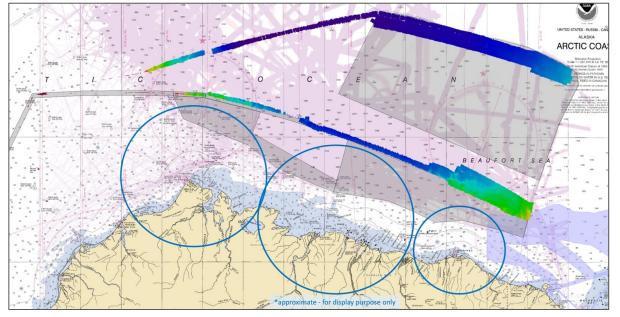












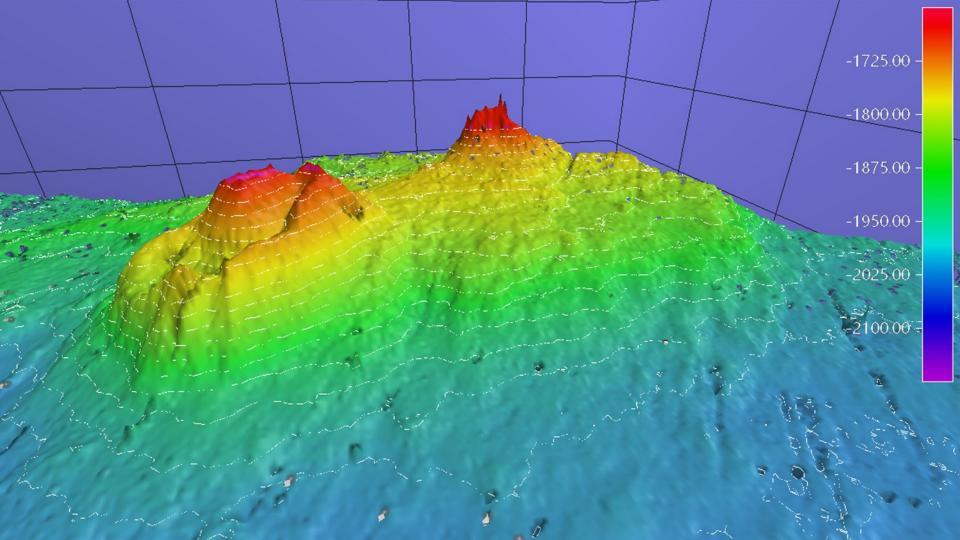
**HLY2402 PARS = 2794 LNM** 

**HLY2403 ECS** = **1104 LNM** 

~50% unmapped (per bathy gap analysis) https://gis.charttools.noaa.gov/bathy-coverage-report/



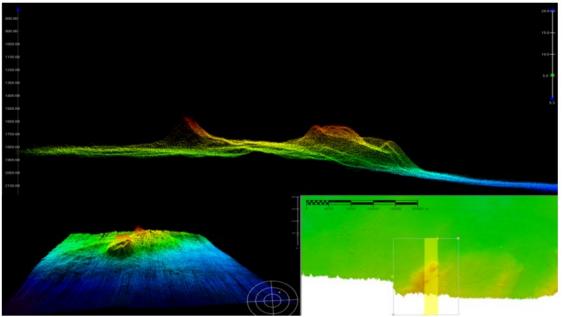
Blog post: https://nauticalcharts.noaa.gov/updates/interagency-science-team-collects-ocean-and-weather-data-in-the-arctic-aboard-u-s-coast-guard-cutter-healy/



E01093 PARS Corridor

#### **Unusual Condition**

Two features were observed around 70.84N 141.18W that may be of interest for further investigation. The field party processed watercolumn data over the features and observed a plume.

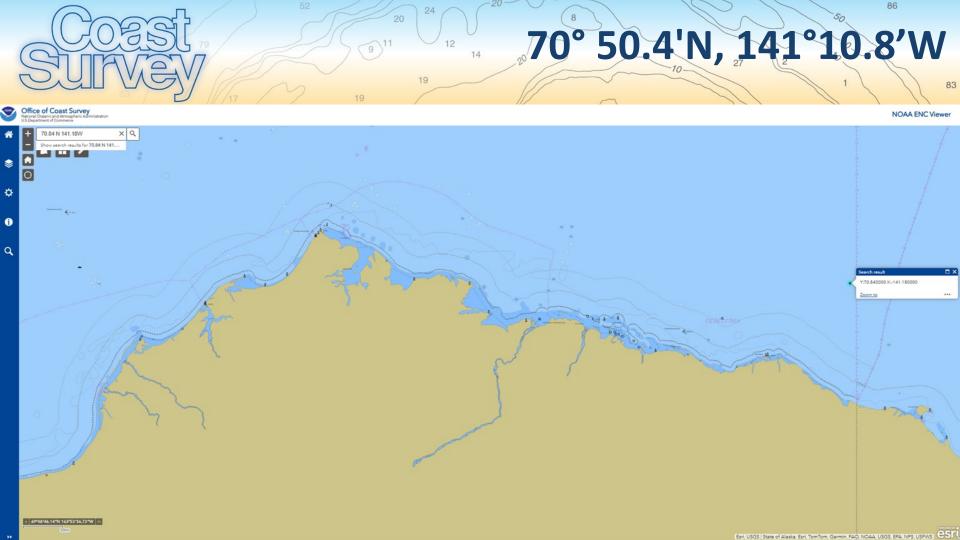


The two features observed around 70.84N 141.18W. (Top) 2D view with 5X exaggeration. (Bottom left) 3D view with 5X exaggeration. (Bottom right) top down view with box showing location of 3D and 2D view.

#### **Additional Information**

Related press release:

https://www.news.uscg.mil/Press-Releases/Article/3959918/us-coast-guard-cutter-healy-crew-and-embarked-science-teams-discover-volcano-li/





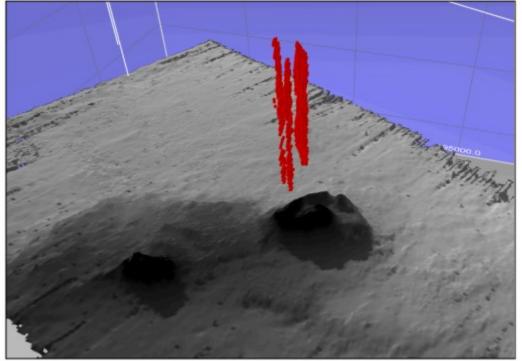


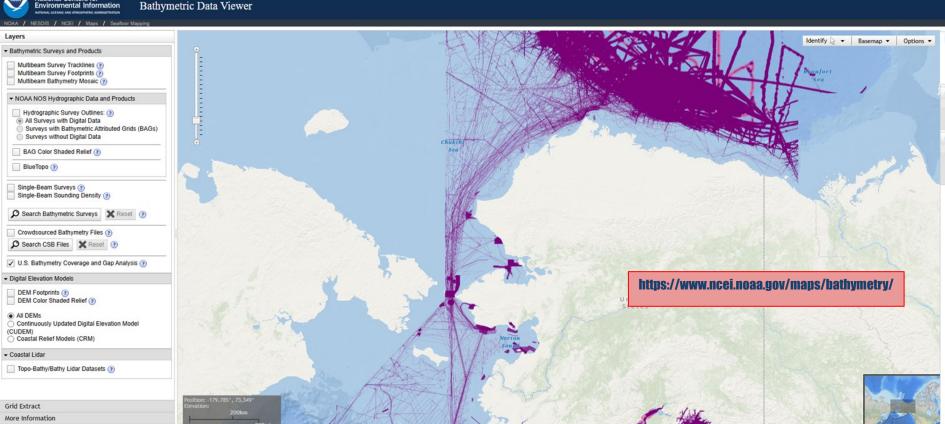
Image credit: LT Andrew Niedbala, USCG



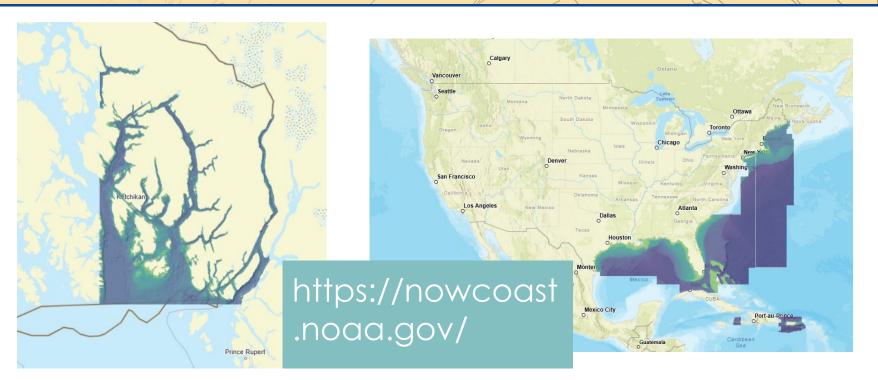
# **National Centers for**

# Environmental Information-NCEL











# Acknowledgements

James Miller, NOAA LT Andrew Niedbala, USCG/CCOM CAPT Meghan McGovern, NOAA Richard Powell, NOAA Meredith Westington, NOAA Christy Fandel, NOAA Martha Herzog, NOAA Miya Pavlock, NOAA LT Taylor Krabiel, NOAA LTJG Lucas Doran, NOAA LCDR Alex Hamel, USCG LCDR Brian Williams, USCG Emily Eidam, OSU Laurie Juranek, OSU Frank Rack, NSF

CAPT Michele Schallip, USCG

Emily Shimada, OSU Brandon D'Andrea, OSU Christina Ramirez, UW Murray Manchanthasouk, UCSD LT Nicholas Azzopardi, NOAA Clinton Marcus, NOAA Brian Mohr, NOAA David Seris, USCG Deborah Spring, NOAA Andy Armstrong, NOAA LT Brennan Mcculloch, USCG Todd Buck, USCG Robert Edwardson, USCG Sarah Ober, NOAA John Cole, NOAA Clarissa Zeller, UIC Science

Kaan Cav, CCOM Lily Dove, Brown Lloyd Pikok Jr., UIC Science Fernanda Gastelu, Virginia Tech Pushyami Kaveti, Northeastern Evan Lucas, Michigan Tech Alexandra Ravelo, UAF Maddie Smith, WHOI Jackie Veatch, Rutgers Mike Wood, Moss Landing Shannon Doherty, UAF Lucia Maldonado, UAF CDR Bart Buesseler, NOAA **NOAA External Data Source team Alaska Eskimo Whaling Commission Crew of the CGC Healy** 

