

46th Meeting of the US - Canada Hydrographic Commission

National Report by
United States of America



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Main Achievements

- Transboundary collaboration
 - Two schedules A's
 - Monthly meeting between CHS and NOAA to discuss Great Lakes Transboundary Issues
- OCS signs new data licensing policy
- 55% of NGA's global ENC portfolio are in work or complete



Bow of NOAA Ship Thomas Jefferson, as the ship begins its transit of the Upper Beauharnois lock south of Montréal, Canada in the St. Lawrence Seaway



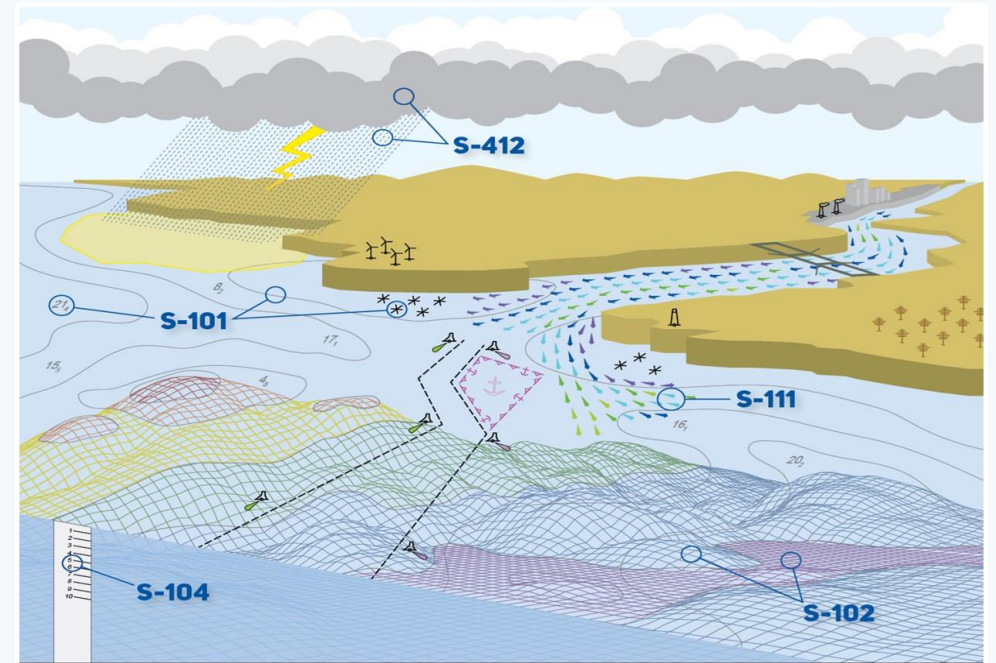
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Main Challenges and/or Obstructions

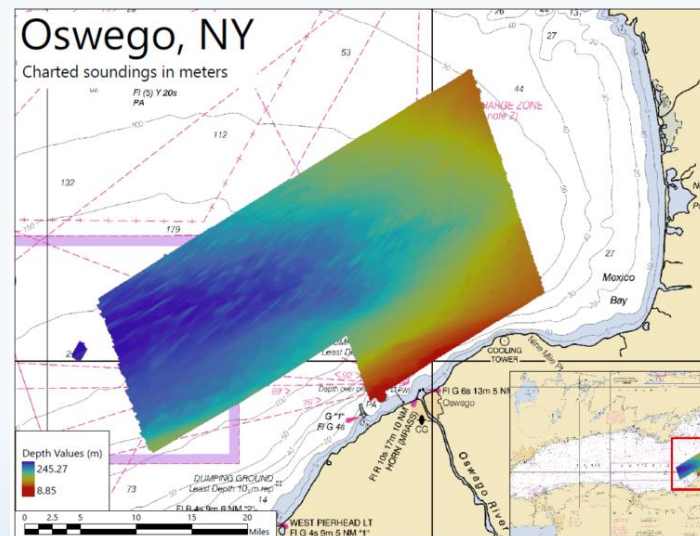
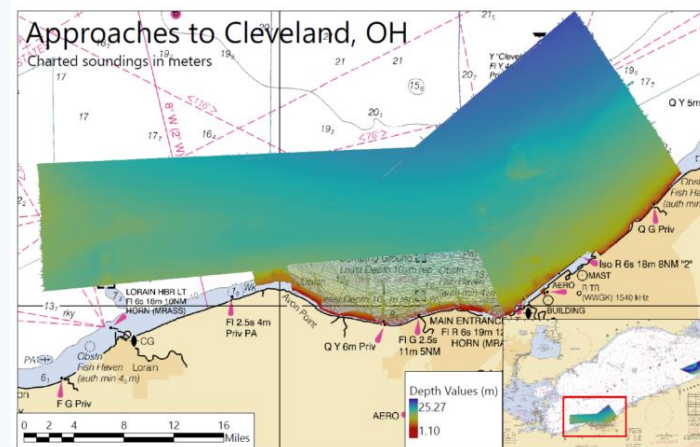
- General global workforce challenges as a result of COVID-19 persist
- S100 roadmap for 2030
 - Developing transition plan for 2026 rollout of next generation S-101
- NGA transitioning customers away from SNC and DNC; moving toward S100



S-100 data framework

Progress on Surveys

- 2022 mapping missions in the Great Lakes (NOAA Ship Thomas Jefferson, Navigation Response Teams, and contractors)
 - NOAA Ship Thomas Jefferson surveyed 450 square nautical miles of lake bottom in Lake Erie and 274 square nautical miles in Lake Ontario
 - 42 confirmed and new shipwrecks identified along with 22 additional features
 - iXblue DriX USV
- 2023 hydrographic season preview



NOAA Ship Thomas Jefferson transit route

Top: part of the survey area in Lake Erie, offshore of Cleveland Harbor, Ohio.
Bottom: part of the survey area in Lake Ontario, offshore of Oswego, New York.



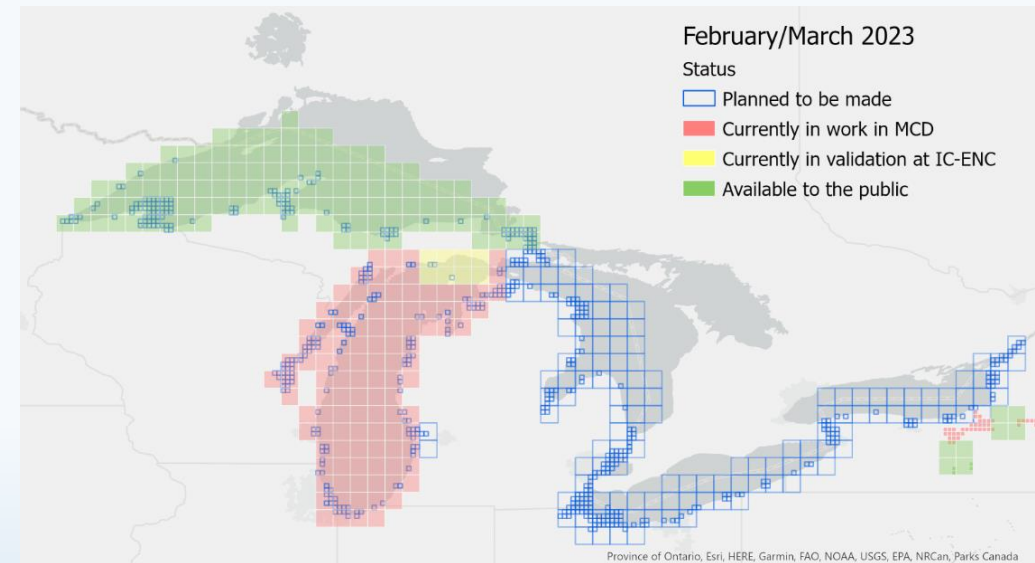
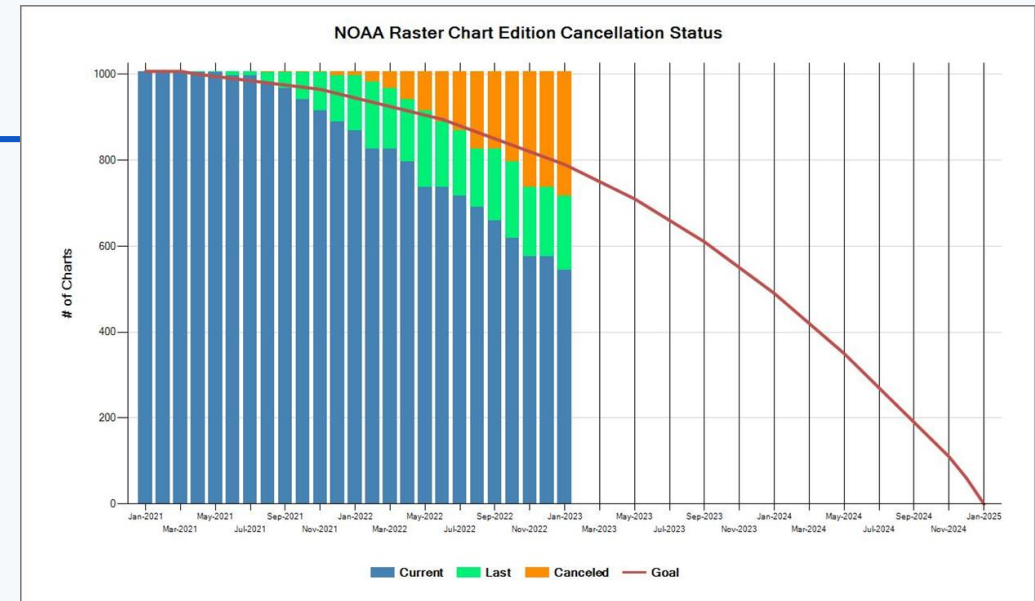
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Progress on Charting

- As of March 1st, 348 paper/raster charts have been canceled, and 175 paper/raster charts are in last edition status. The last NOAA paper chart will be canceled on December 5, 2024
- NOAA ENC rescheming - 18% complete and progress has expanded up the East Coast, as well as the Mississippi River, Gulf Coast, Great Lakes, and Alaska




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Progress on Charting

- NOAA Custom Chart v. 2.0 was released in February 2023
- NOAA has a high-level S-101 transition plan in place

 **Office of Coast Survey**
National Oceanic and Atmospheric Administration
U.S. Department of Commerce






    

Chart Settings

Use these settings to enter your chart parameters. More information about chart scale, depth zone shades and other settings is in the [User Guide](#).

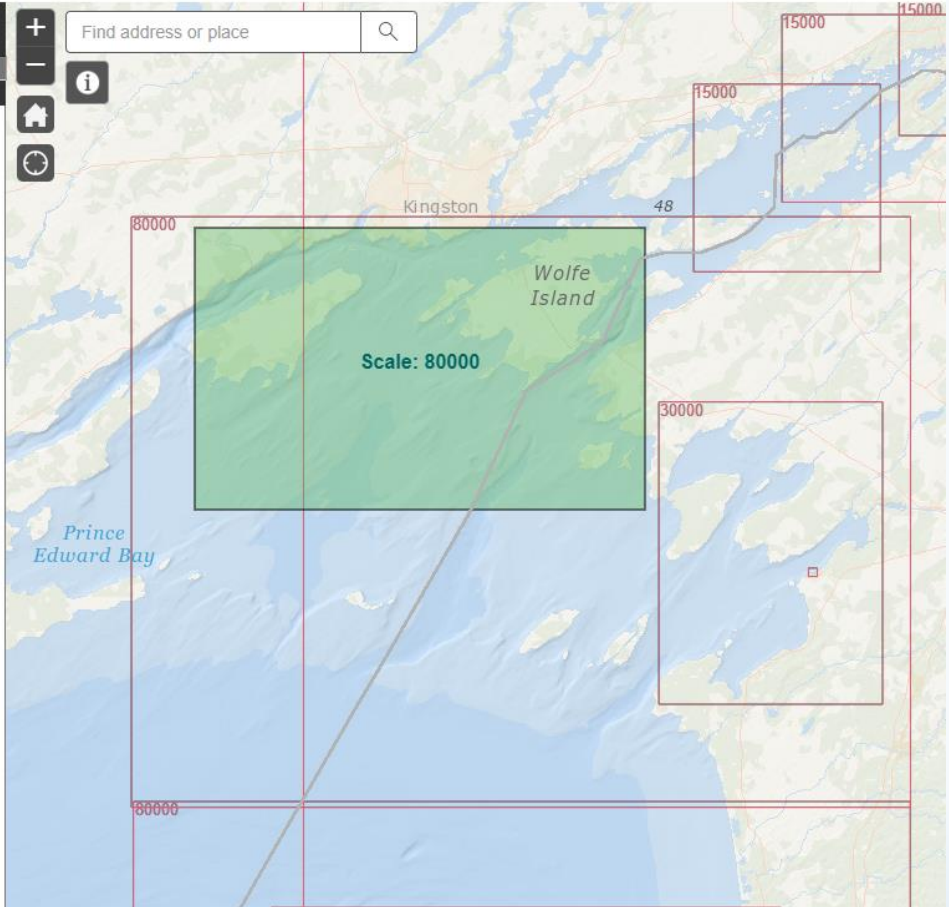
Name:	<input type="text" value="Approaches to St. Lawrence Seaway"/>
Scale:	<input type="text" value="80000"/>
Page size:	<input type="text" value="ANSI C (17in x 22in)"/>
Orientation:	<input type="text" value="Landscape"/>

Depth units:	<input type="text" value="Feet"/>
Depth zones:	<input type="text" value="Four"/>
Depth zone shades:	Shallow: <input type="text" value="5"/> Safety: <input type="text" value="11"/> Deep: <input type="text" value="17"/>

Depth zones shallower than the entered values are tinted in the shade of blue shown. If no contour for the value exists in the ENC data, the next deeper contour is used. Depth zones deeper than the "Deep" value are displayed as white.

[Create New Chart](#) [Move Chart](#)

After populating all fields, click Create New Chart, then click the map once at the center of your chart. Click Move Chart, then click and drag the chart outline to refine its position.



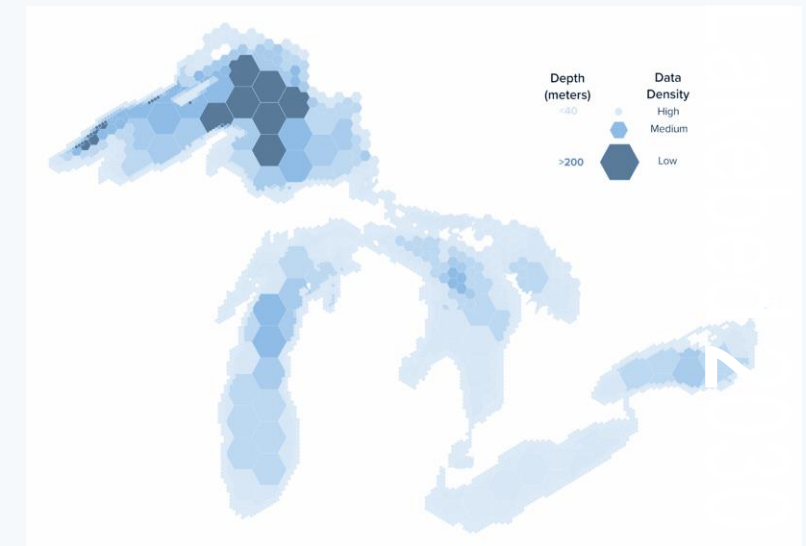
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Mapping Progress

- There is an increasing demand for high resolution mapping data across all depths
- Lakebed 2030 seeks to map the Great Lakes by 2030
 - PoC: meredith.westington@noaa.gov
- Great Lakes
 - Ideal location to demonstrate an international approach to meeting Seabed 2030 goals in transboundary waters
- Draft Standard Ocean Mapping Protocol is out for public comment - due June 2, 2023
 - PoC: Ashley.chappell@noaa.gov



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Success Stories to Share

- NGA has an increase in commercial data acquisition from new contract partners
- Certified Printed Electronic Navigational Chart (CPENC) Development
- U.S. support for the IHO and Canada's Empowering Women in Hydrography Project
 - Hosted three candidates during 2022 survey season
 - 2023 participants announced soon!



Woman officer hydrographers aboard NOAA Ship Rainier



*CPENC example
(generated from ENC)*



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Thank you!



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