



## **Memorandum**

To: Mariners' Advisory Committee Members and Interested Parties -----  
From: Captain Drew Hodgens  
Re: Meeting Agenda – **September 11, 2025**

Your presence is requested at the Quarterly Meeting of the above-mentioned committee on **Thursday, September 11, 2025 at 1100 hours.**

### **Agenda**

#### **I Approval of Minutes** – from the June 2025 meeting

**Introduction of all in attendance**

#### **II. Reports**

- |                              |  |
|------------------------------|--|
| A. <b>Treasurer's Report</b> | - Capt. Rick Iuliucci                    |
| B. <b>Membership Report</b>  | - Capt. Rick Iuliucci                    |
| C. <b>USCG Report</b>        | - Capt. Kate Higgins-Bloom               |
| D. <b>USACE Report</b>       | - Mr. Tim Rooney, Project Manager, USACE |
| E. <b>NOAA Report</b>        | - Mr. Ryan Wartick                       |

#### **III. Unfinished Business**

#### **IV. New Business**

#### **V. Open Discussion**

#### **VI. Adjournment**

**Next meeting: Thursday, December 11th, 2025 at 1100 hours**



## **Memorandum**

To: Mariners' Advisory Committee Members and Interested Parties  
From: Captain Rick Iulucci, Treasurer  
Re: Treasurer's Report for September 11, 2025

**Balance – from June 9, 2025** **\$ 19,732.56**

**Deposits** (June 2025- September 2025)

Total Deposits during the period **\$ 800.00**

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**INCOME BALANCE** **\$ 20,532.56**

**Disbursements** (June 9, 2025 – September 9, 2025)

Popi's Restaurant	(8/28/25)	\$ 2,000.00
Popi's	(6/13/25)	\$ 4,741.25
Email service	(G-mail @ 3 months)	\$ 130.78
Email service	(Twild- \$89.95. Per month @3 months)	\$ 269.85
PNC service fees	(\$3.00 per month @ 3 months)	\$ 9.00

-  
**TOTAL DISBURSEMENTS** (June 2025 – September 2025) **\$ 7,150.88**

**BALANCE as of September 9, 2025** **\$ 13,381.68**

# USACE PHILADELPHIA DISTRICT

## MAC MEETING

MAC Meeting Presentation

Timothy J. Rooney, Project Manager

11 September 2025

*"The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."*



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## Delaware River, Philadelphia to Sea

- Cottrell Contracting Corporation is currently dredging the 40ft side of Marcus Hook Anchorage with the Dredge Lexington and scheduled for completion by the end of September.
- FY25 maintenance dredging is expected to remove approximately 2.5 to 3 million cubic yards of material from the navigation channel. Scheduled dredging will include Marcus Hook, Cherry Island, Deepwater Point, and New Castle Ranges. Dredged material will be placed in Pedricktown South and Delaware City DMPFs. Bid Opening is currently scheduled for September 12, 2025.
- The Hopper Dredge McFarland has dredged Cross Ledge Range and Mifflin Range this past week. The next tour is scheduled to dredge the same ranges from September 22, 2025 through October 5, 2025.



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### **Delaware River, Philadelphia to Trenton**

The next contract for dredging between the Turnpike Bridge and Newbold Island as well as the Fairless Turning Basin is expected to be awarded to Cottrell Contracting Corp NLT 12 September with dredging anticipated to begin in mid-October 2025.

### **Wilmington Harbor**

The solicitation for the next dredging contract is currently advertised with bid opening scheduled for September 12, 2025. The next cycle of dredging is anticipated to be conducted in the fall or early winter of 2025.



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## **C & D Canal**

- FY25 Maintenance dredging is expected to remove approximately 500,000 cy of material from the navigation channel. Work will include the removal of material from the Upper Chesapeake, inside the Canal and at the Reedy Point Entrance. Dredged material will be placed in Pearce Creek and Delaware City DMPF. Bid opening is scheduled for September 15<sup>th</sup>.
- Summit Bridge painting and repair activities will continue through October 2026. An air gap restriction of 5ft has been issued until June 2026. Work will only be performed on half of the main span of the bridge leaving the air gap unrestricted on the other side of channel. Currently, work is being performed on the south side of the main channel.



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Ryan Wartick  
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Office of Coast Survey  
National Oceanic and Atmospheric Administration



- In 2022, the International Maritime Organization (IMO), amended its Electronic Chart Display and Information System (ECDIS) standard to leverage S-100 based ENC's beginning in 2026.
- S-100 ECDIS will be voluntary starting **1 January 2026**
- From **1 January 2029** new systems must comply with the new IMO Resolution on ECDIS Performance Standards (MSC.530(106))
- New ECDIS aim to be “dual fuel” capable – able to display both S-57 and S-101 for a smooth transition period.







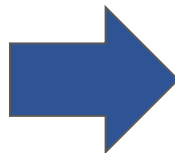
## Phase 1/Route Monitoring

### Phase 1 Route Monitoring Mode

- S-101 ENC
- S-102 Bathymetry
- S-104 Water Levels
- S-111 Surface Currents
- S-124 Navigational Warnings
- S-129 UKC Management

#### **Critical Framework**

- IHO Geospatial Information Registry
- S-98 Interoperability Specification
- S-100 Universal Hydrographic Data Model
- S-128 Catalogue of Nautical Products
- S-164 Test Data Set for S-100 and ECDIS Type Approval



## Phase 2/Route Planning

### Phase 2 Route Monitoring Mode

- S-122 Marine Protected Areas
- S-123 Marine Radio Services
- S-125 Marine Aids to Navigation (AtoN)
- S-126 Marine Physical Environment
- S-127 Marine Traffic Management
- S-131 Marine Harbour Infrastructure
- S-411 Ice Information (WMO)
- S-412 Weather and Wave Hazards (WMO)

+ S-100 Products used in Monitoring Mode



**NOAA**  
Coast Survey

# NOAA S-100 Data Products

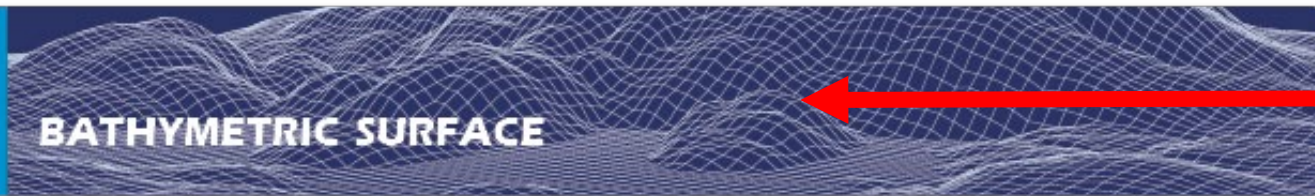
**S-101**

**ELECTRONIC NAVIGATION CHART**



**S-102**

**BATHYMETRIC SURFACE**



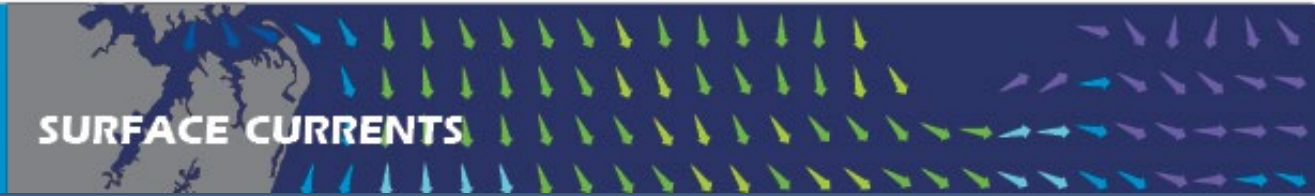
**S-104**

**WATER LEVEL INFORMATION FOR SURFACE NAVIGATION**



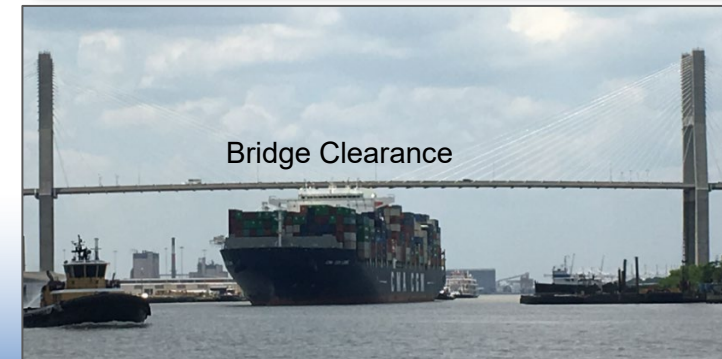
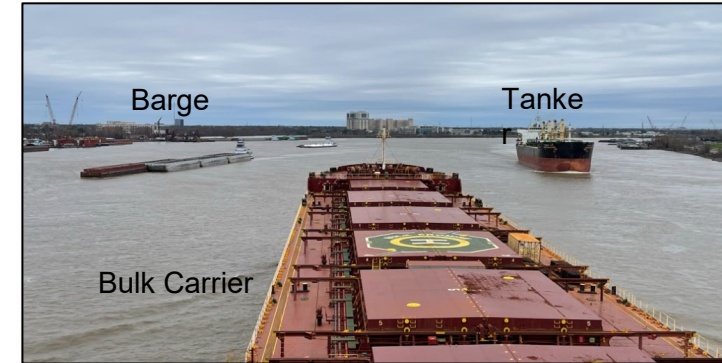
**S-111**

**SURFACE CURRENTS**





- Difficult navigation of deep draft ships in highly congested waterways
- Very tight harbors/berths
- Clearance Issues under bridges
- Demand for integrating environmental information into formats mariners can utilize to safely operate very high and very deep draft ships

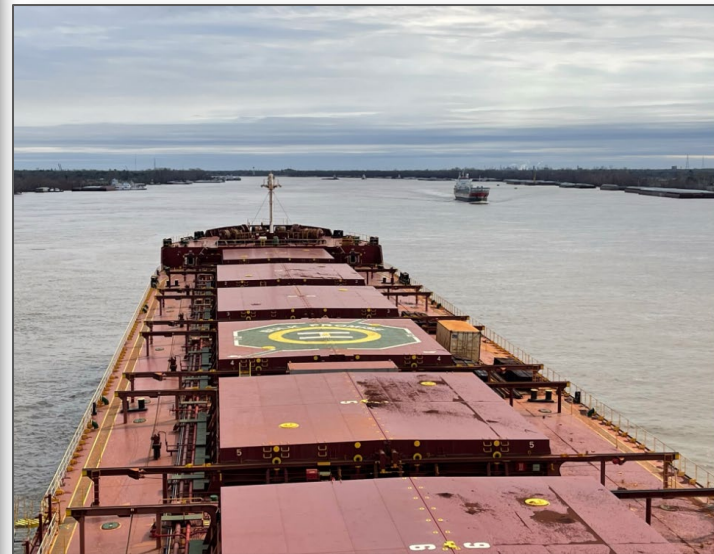
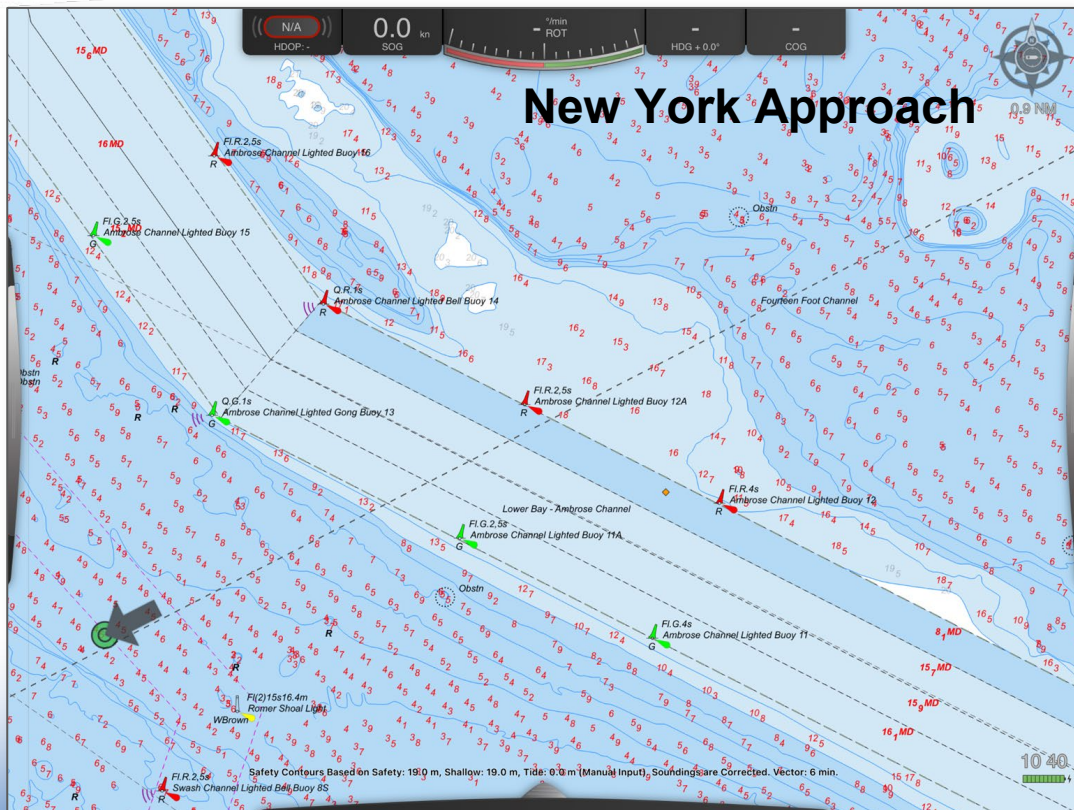




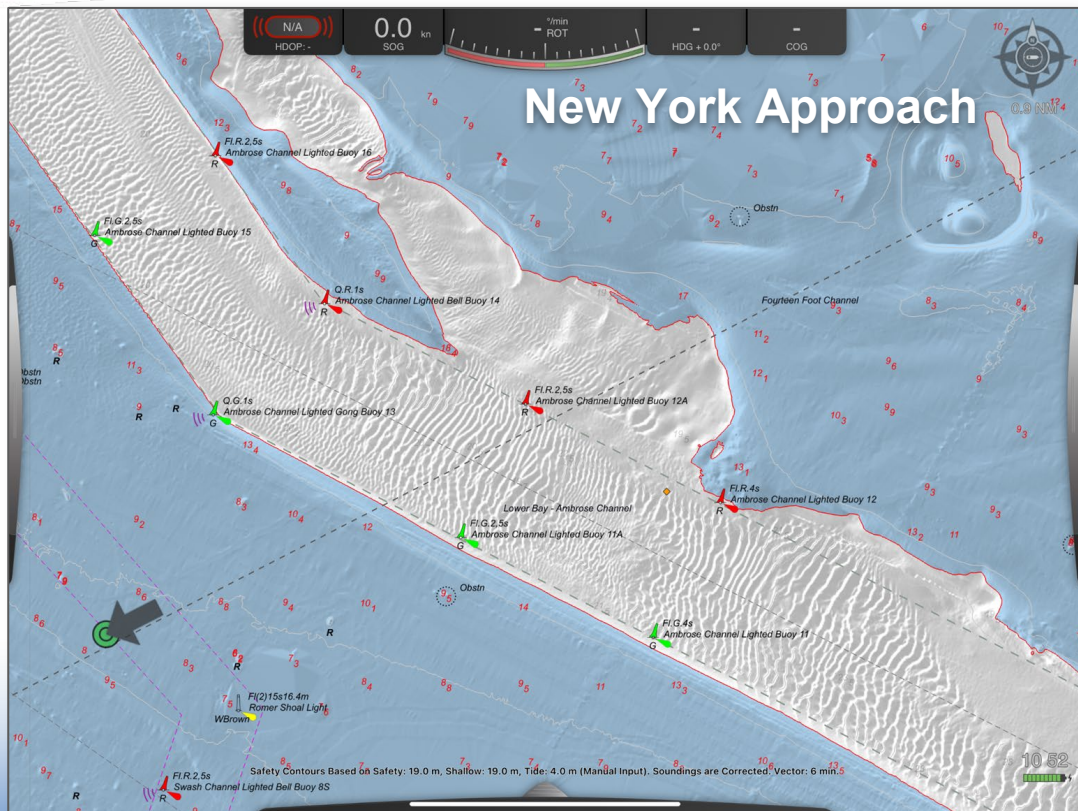


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# ENC of New York Approach



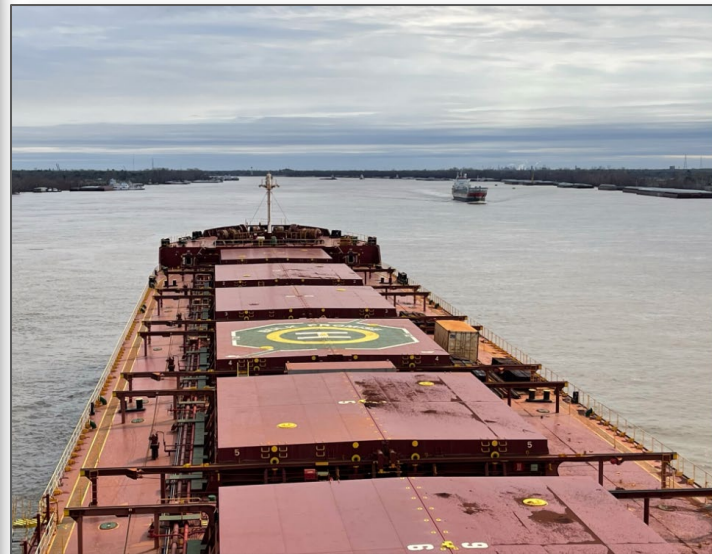
Trelleborg SafePilot - Portal Pilot Unit Display



Trelleborg SafePilot - Portal Pilot Unit Display



# Integrated Water Level and Bathymetry



Trelleborg SafePilot - Portal Pilot Unit Display  
(Potential Future Capability)

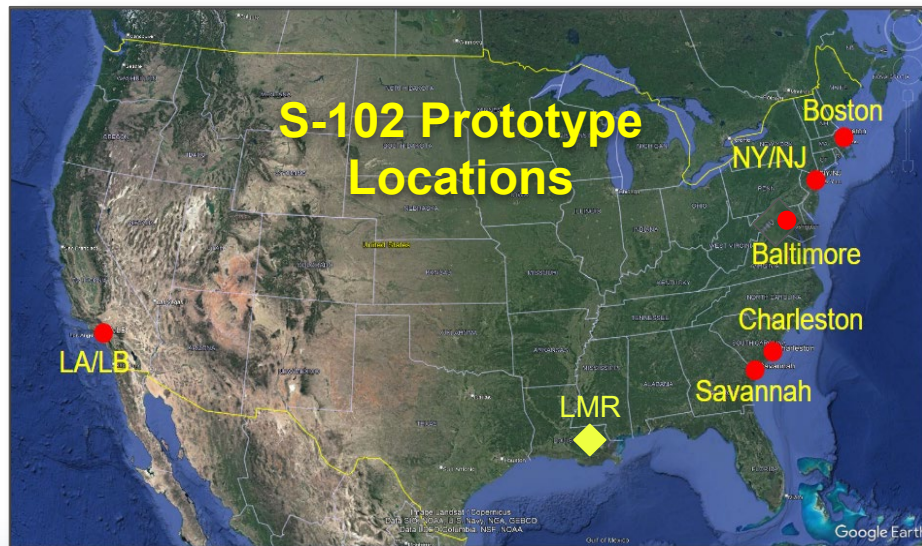




## Trelleborg SafePilot - Portal Pilot Unit Display (Potential Future Capability)

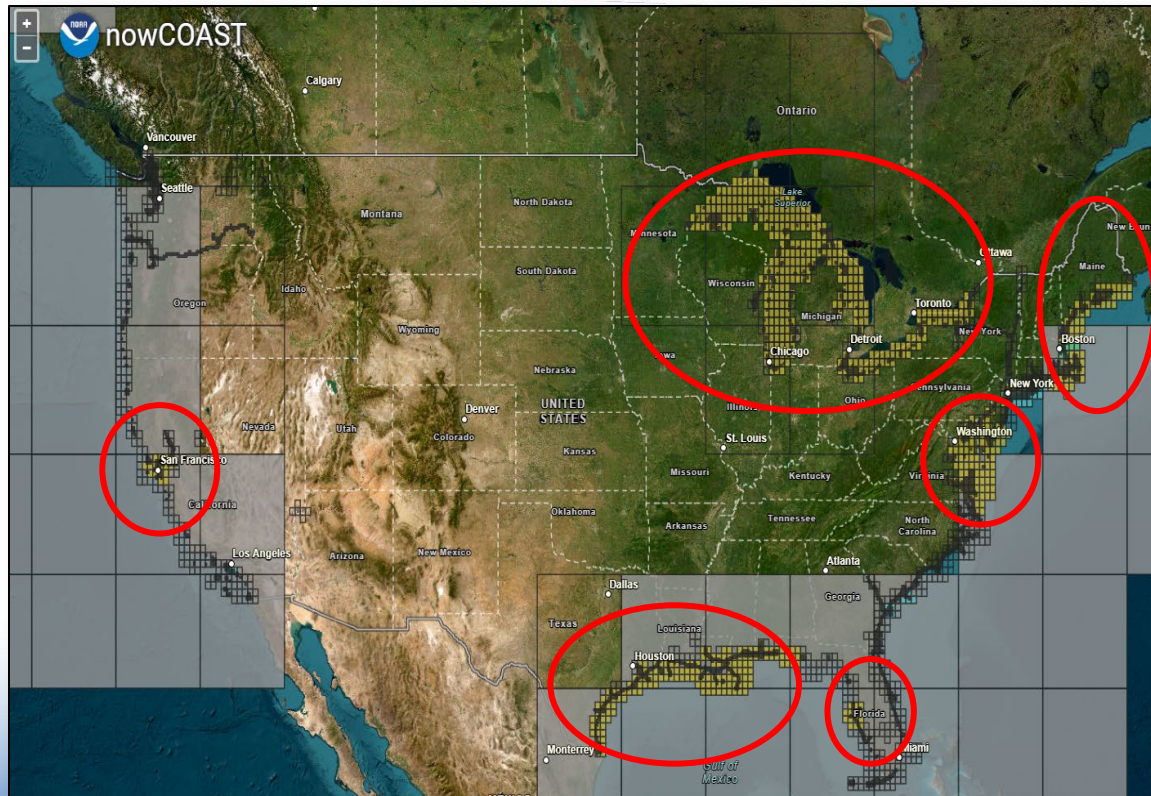
# Test S-102 Bathymetry Availability

- S-102 Edition 2.2.0 available in the following locations
  - LA/LB, NY/NJ, Boston, Baltimore, Charleston, Savannah, LMR





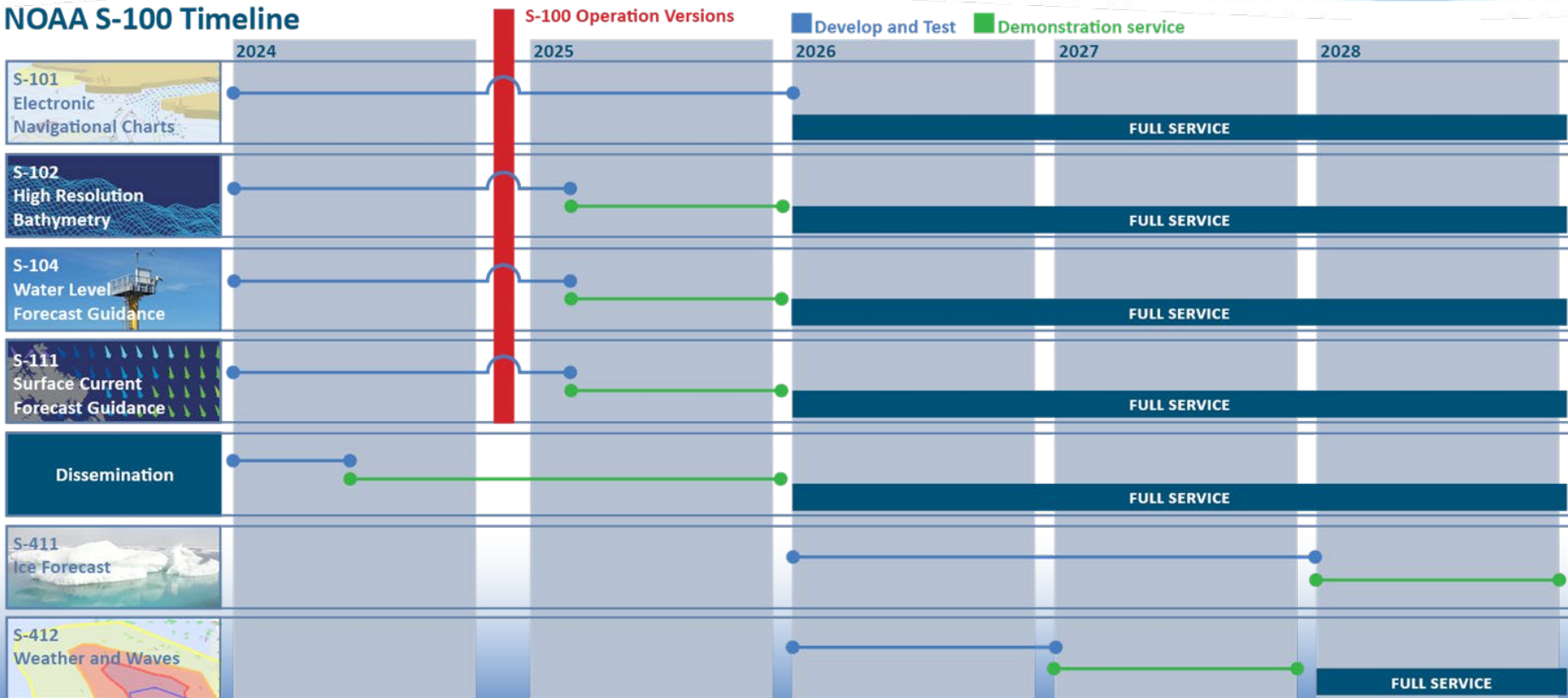
- We have test Surface Current Data in locations where we have Operational Forecast Systems





# NOAA S-100 Development Timeline

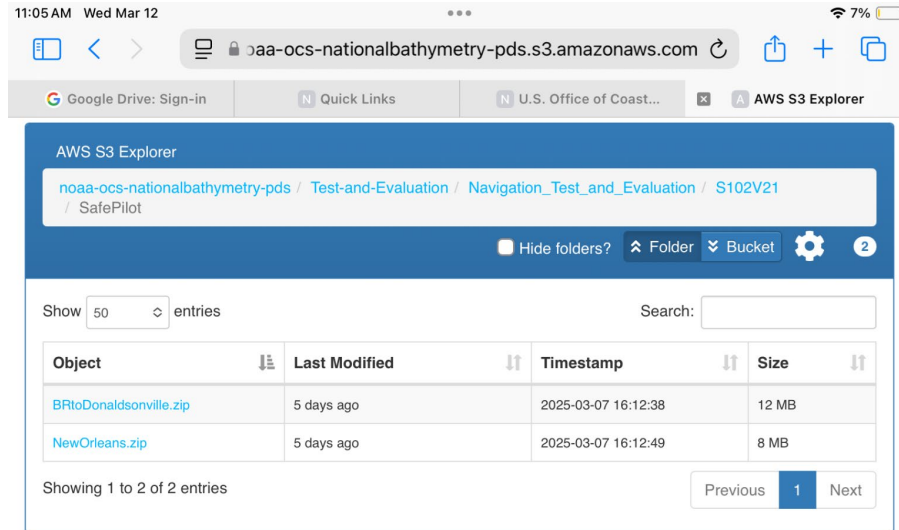
## NOAA S-100 Timeline



Data is available [here](#).

SafePilot needs S-102 data in zip files.

- The naming convention of these files has been modified to support integration with SafePilot.
- Size limitations: ~18MB before performance issues are experienced.
- Trelleborg is working to improve User Experience issues with larger files.
- Want to see another area? Just let us know.



11:05 AM Wed Mar 12

aaa-ocs-nationalbathymetry-pds.s3.amazonaws.com

Google Drive: Sign-in Quick Links U.S. Office of Coast... AWS S3 Explorer

AWS S3 Explorer

noaa-ocs-nationalbathymetry-pds / Test-and-Evaluation / Navigation\_Test\_and\_Evaluation / S102V21 / SafePilot

Hide folders? Folder Bucket 2

Show 50 entries Search:

Object	Last Modified	Timestamp	Size
BRtoDonaldsonville.zip	5 days ago	2025-03-07 16:12:38	12 MB
NewOrleans.zip	5 days ago	2025-03-07 16:12:49	8 MB

Showing 1 to 2 of 2 entries

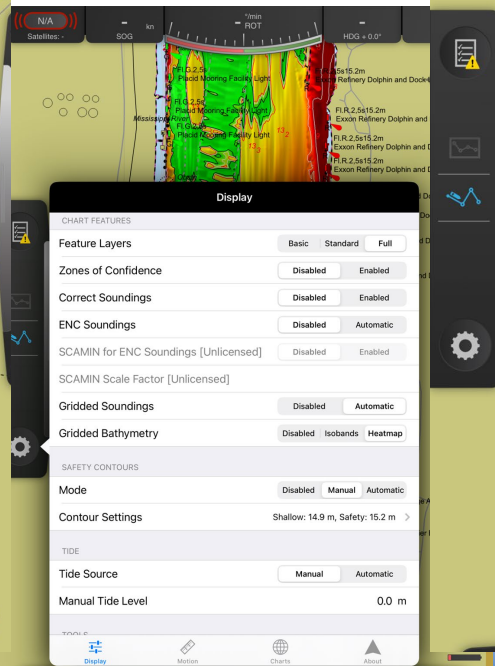
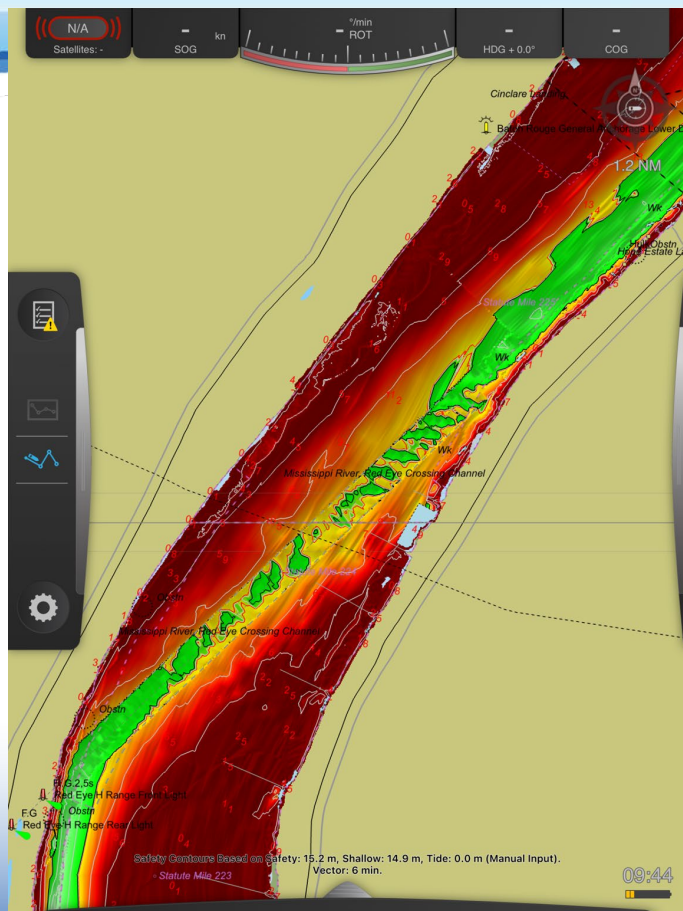
Previous 1 Next

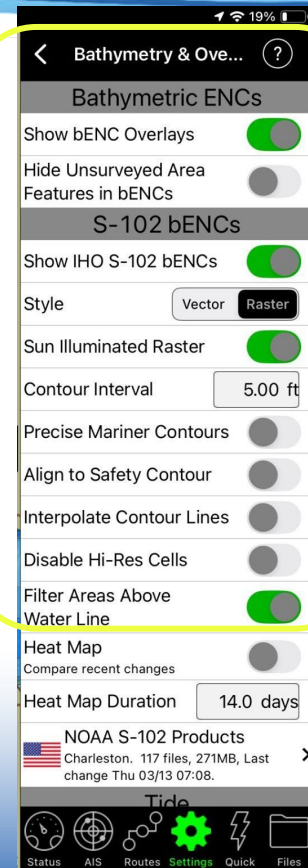
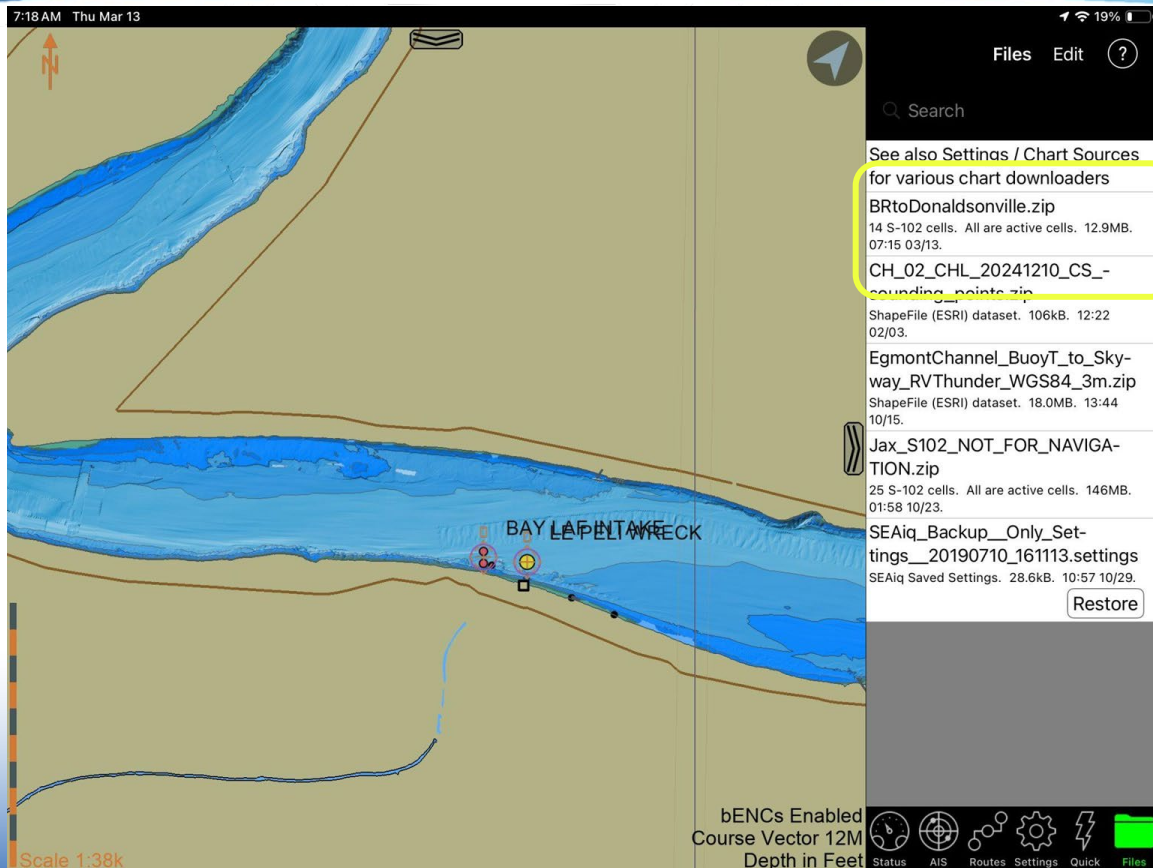




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# S-102 in SafePilot







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National Oceanic and Atmospheric Administration