



**National Oceanic and  
Atmospheric Administration**

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# NOAA's Response to the Collapse of the Francis Key Scott Bridge

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Office of Coast Survey



National Weather Service



National Geodetic Survey



Center for Operational Oceanographic Products and Services



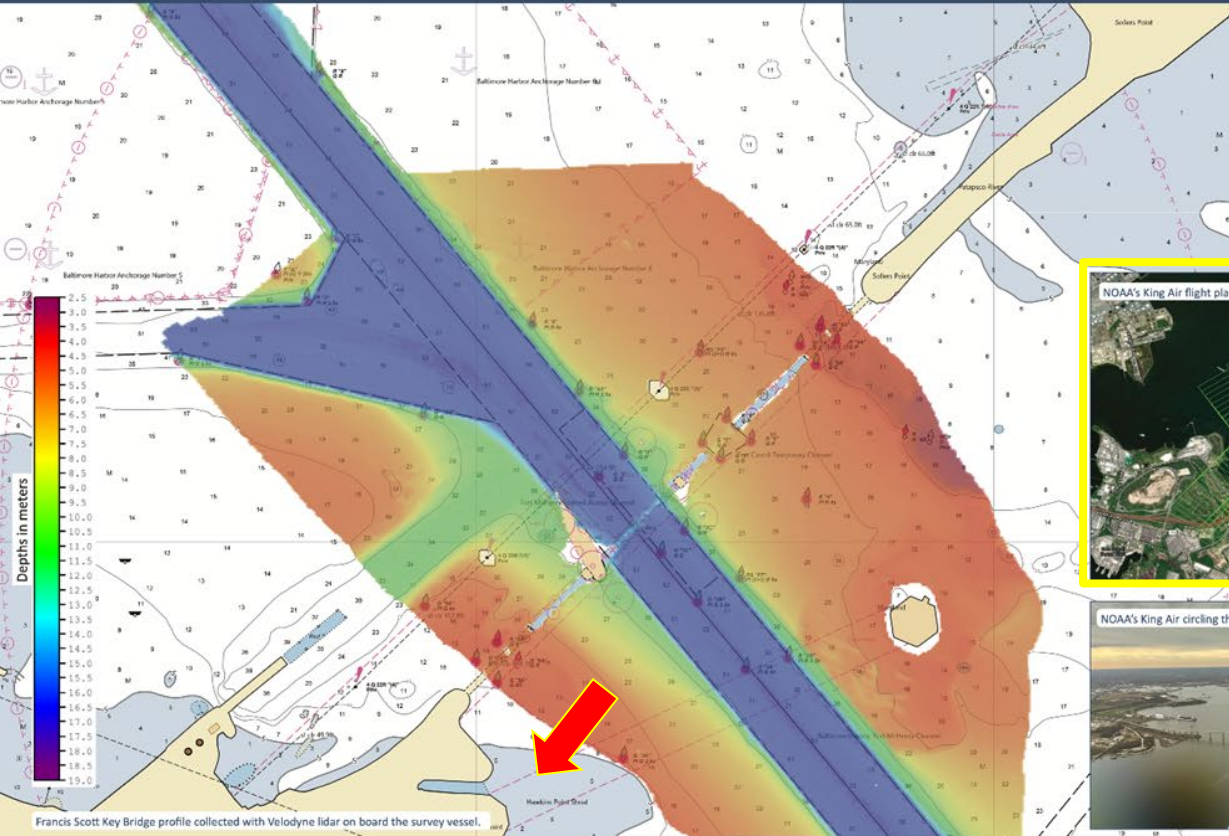
Office of Response & Restoration



# NOAA Supports Efforts to Restore Baltimore's Shipping Lanes

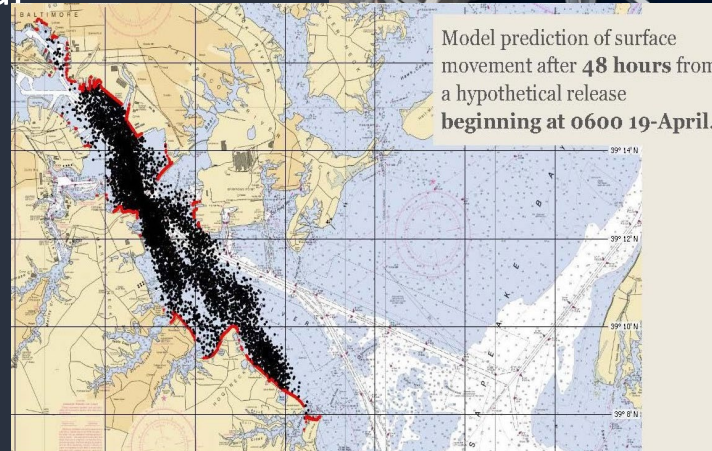
On Tuesday, March 26, 2024, the 984-foot cargo ship DALI collided with the Francis Scott Key Bridge near Baltimore, Maryland, sending the structure tumbling into the Patapsco River and triggering a local, state, and federal response.

Nautical chart and bathymetry updated on April 30, 2024



# Pollution Support

- Scientific Support Coordinator
- HAZMAT: Crushed dangerous goods container guidance
- OIL: Trajectory and fate modeling for potential Dali fuel spill until transit to terminal



# Navigation Response Team & Common Operating Picture

Key Bridge Response Common Operating Picture (Public...)

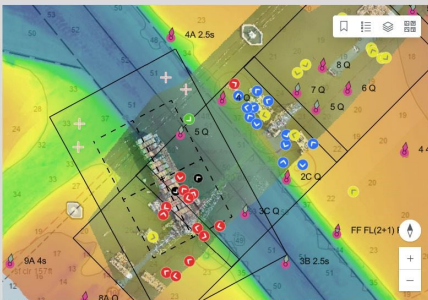
Search by Ves  
All Vessels

Wind  
0.8 kts  
from 210 °T

Curtis Bay Ent  
Wx buoy  
Last update: 2 minutes

Air Temp  
63°F

Curtis Bay Ent  
Wx buoy  
Last update: 2 minutes



AIS with  
Joined Data (sanitized for  
public)

Response Ver  
by Contractor

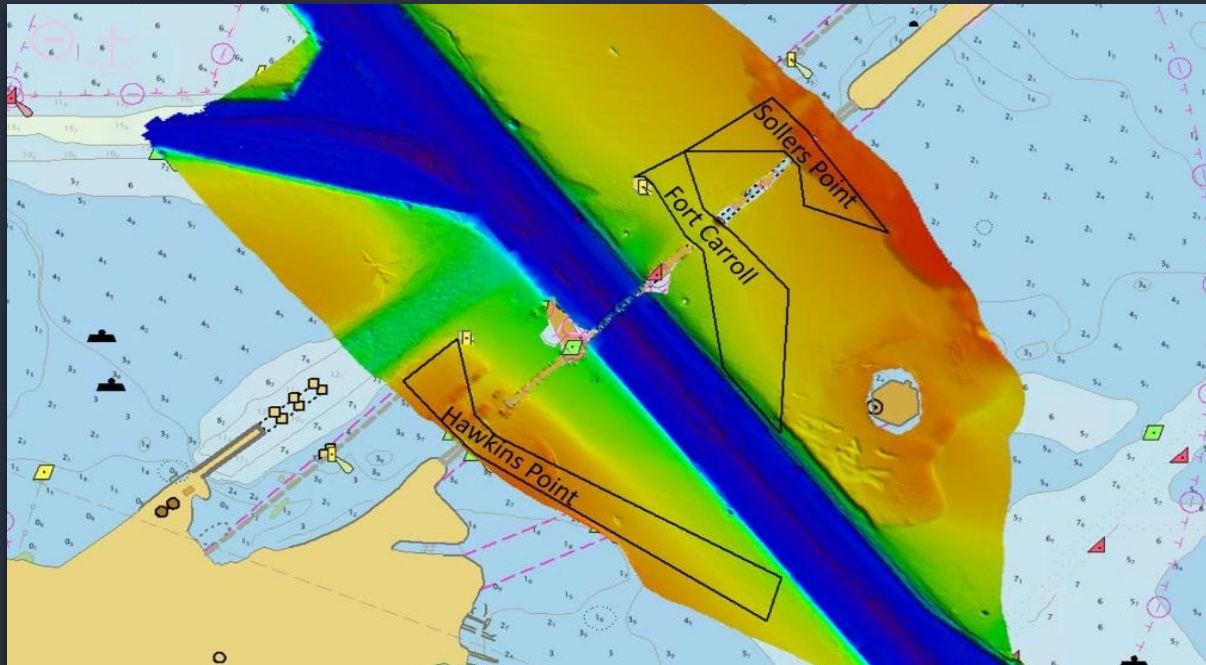
- DONJON
- RESOLVE
- SKANSKA
- Government Vessel
- Non-Resc Vessels

SAFETY ZONE

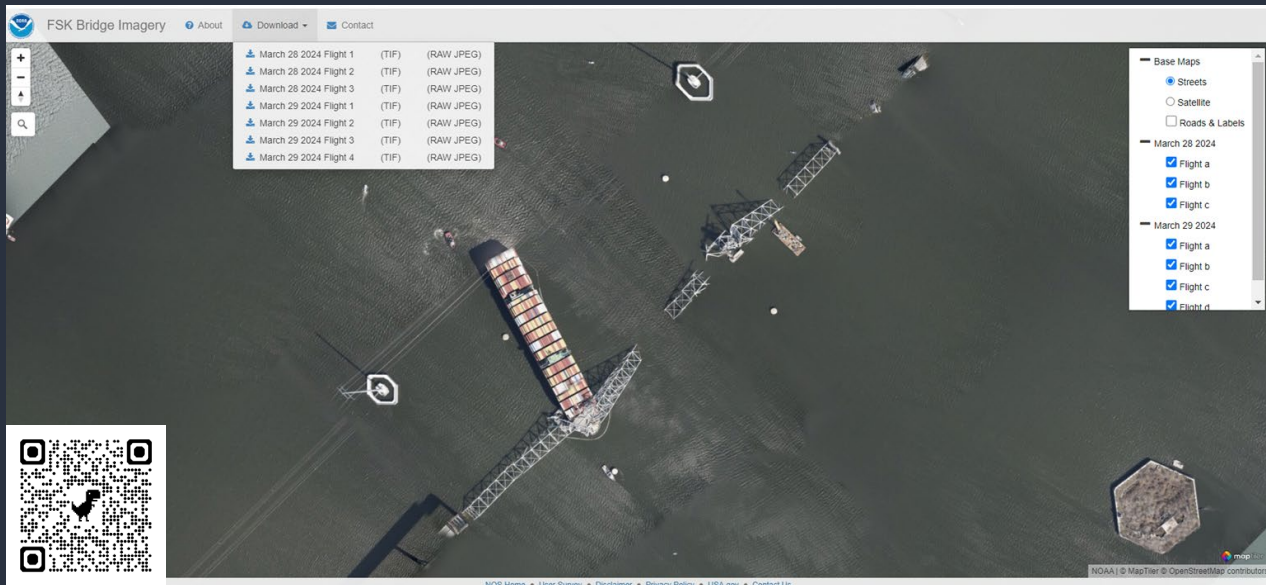
Imagery  
updated: 23  
Apr

Erii, Maxar, Earthstar Geographics, and the GIS User Community NOAA Office of Coast Sur... Powered by Erii

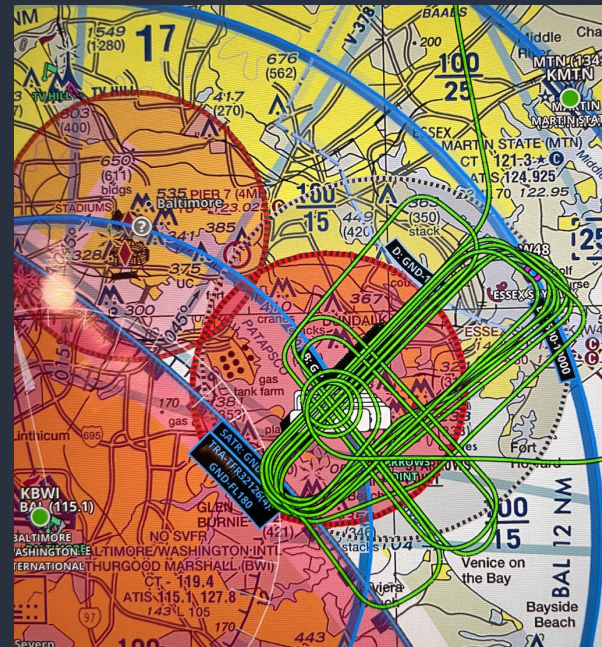
COP NWS Weather Threat



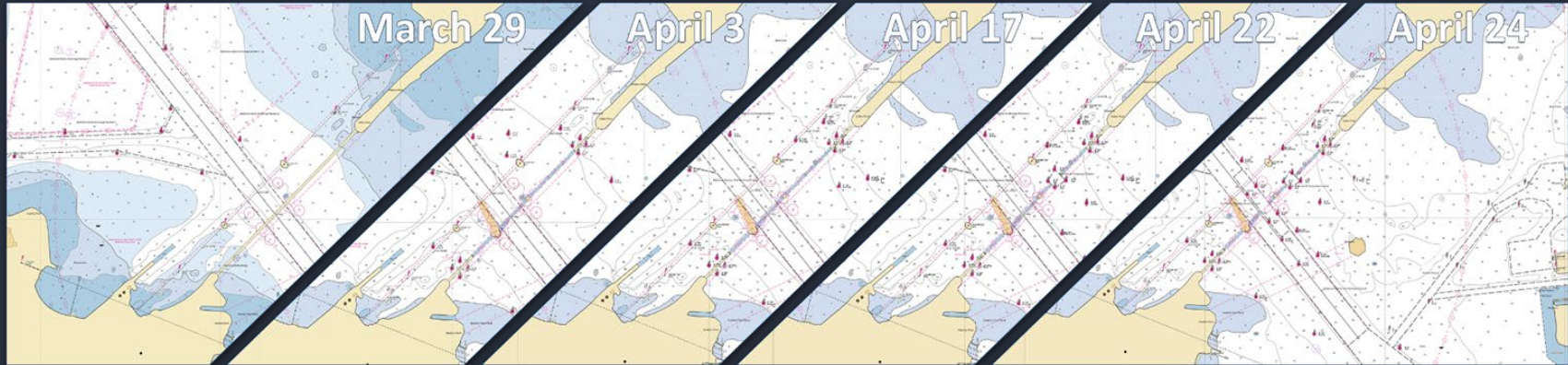
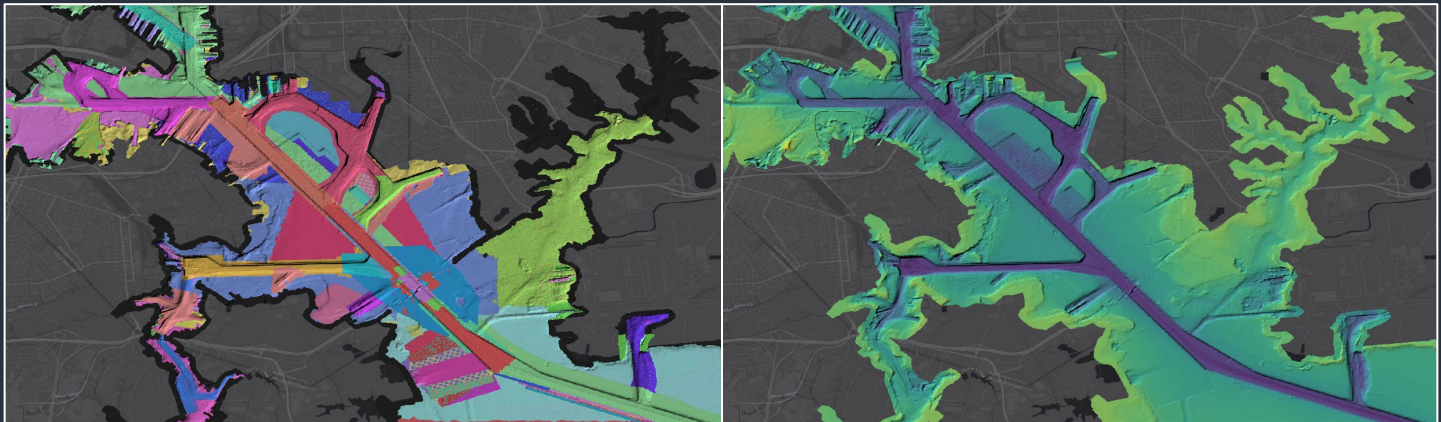
# Supporting Evaluation of Access Challenges



[https://storms.ngs.noaa.gov/storms/fskb\\_2024/index.html#](https://storms.ngs.noaa.gov/storms/fskb_2024/index.html#)



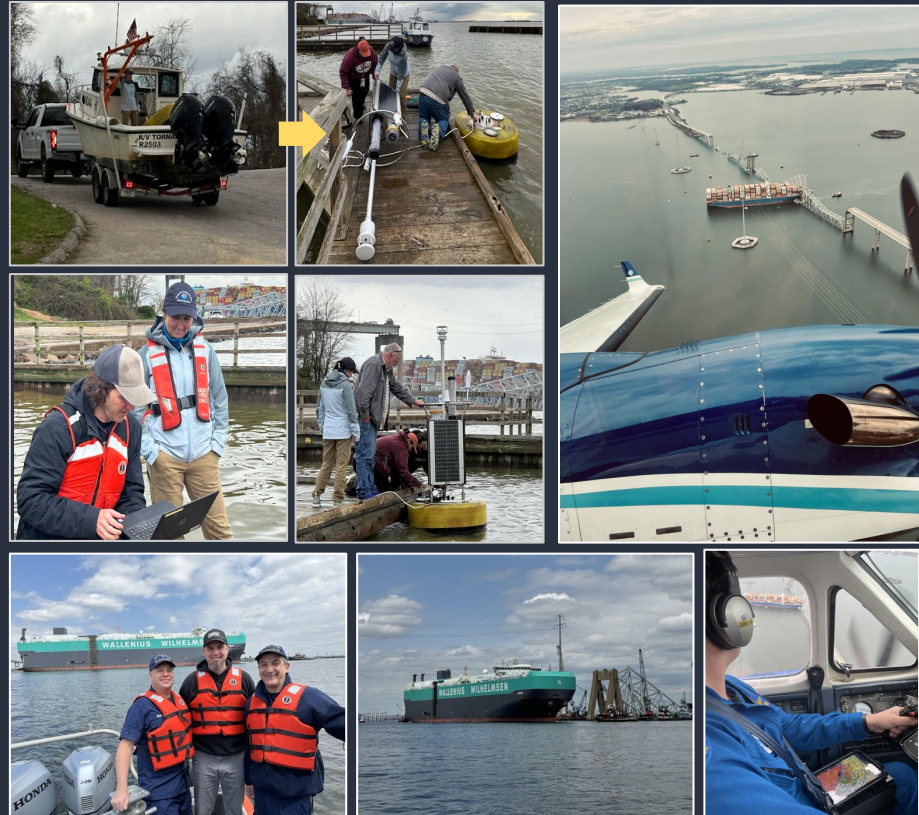
# National Bathymetric Sources & Rapid Nautical Chart Updates



# Lessons Learned

## How Could Nav Services Better Support Ports in the Face of Threats?

- Enhanced rapid response capabilities
- **Densification of observations** (NWLON, PORTS, geodetic controls)
- **New types of observations** (waves, fog, webcams)
- More frequent surveys (hydro & shoreline & tidal current surveys)
- Improved **model forecasts** of oceanographic conditions in seaport areas
- Info relevant to **long-term port resilience** due to sea level change
- **Standardized one-stop destination for all relevant NOAA decision support information** (Incident Management Team)





# Many Thanks to:

- Port of Baltimore
- U.S. Coast Guard
- U.S. Army Corps of Engineers
- And all the other local, state, and federal partners that contributed to the swift response

