

# National Ocean Service

## *TRB Marine Board Update*

**Ms. Heather Gilbert,  
Office of Coast Survey, NOS, NOAA  
November 19, 2024**



# NOAA's Priorities

- Tackling the climate crisis
- Increasing equity and environmental justice
- New Blue Economy: Economic development, sustainability, and partnerships





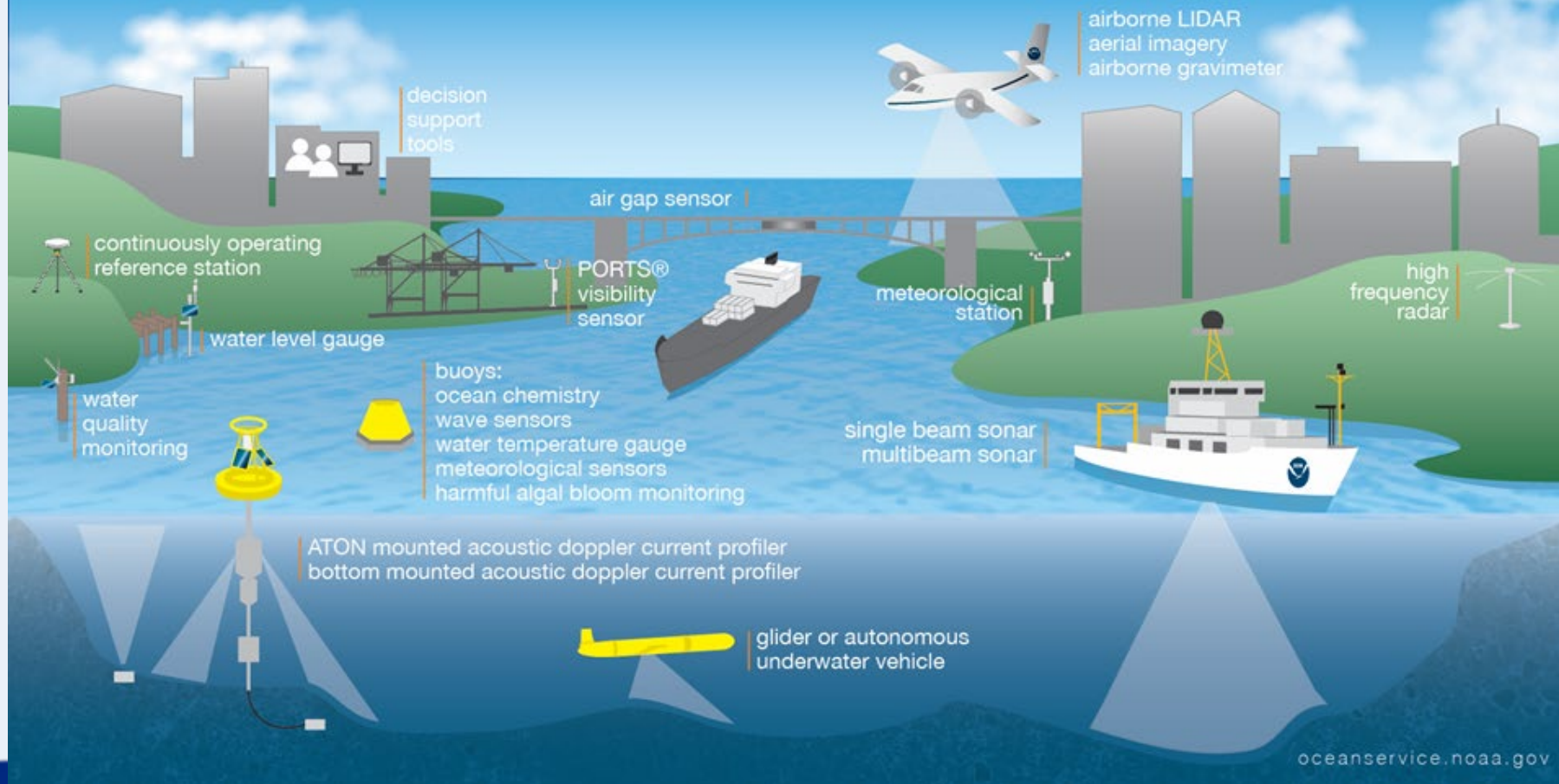


## TRANSPORTATION AND COMMERCE

**Safe and efficient** transportation and commerce:  
helping decision makers along the coast make the  
best choices for their communities.



satellite  
communication



[oceanservice.noaa.gov](http://oceanservice.noaa.gov)





# NOAA BIL & IRA



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- The Bipartisan Infrastructure Law and the Inflation Reduction Act have provided NOAA with a historic opportunity to promote coastal and ocean-based resilience, especially to benefit underserved communities.
- NOS is actively leveraging funds from IRA and BIL to enhance coastal resilience and protect marine ecosystems.
  - Very recently NOAA announced the release of the final rule for the proposed Chumash Heritage National Marine Sanctuary, which IRA funds in part assisted to make come to fruition.
  - IRA Climate Resilience Regional Challenge - 19 awards totaling \$575 million are now obligated.
  - This great work has long-term environmental benefits that NOS is proud to support, however, NOS is also continuing to complete its essential operational work, including assisting with the current hurricane season and the Port of Baltimore recovery, as well as maintaining consistent ocean observations to ensure real-time data for decision-making.





# NOAA BIL & IRA - Provision 3

## BIL Provision 3 work

- In June, CO-OPS and OCM gathered in Charleston to finalize plans for the release of version one of the Sea Level Calculator.
- CO-OPS completed testing of two new low cost wave and water level sensors at the Money Point, VA tide station.
  - Results will contribute to BIL-supported collaborative efforts under Provision 3.
- CO-OPS and OCS are developing an ocean forecast system skill assessment tool. Phase one, the 1D (time series) skill assessment, is now complete.
  - This system utilizes data from CO-OPS, NDBC and USGS, with water levels, water temperature, currents and salinity.



# NOAA BIL & IRA - NGA and IOOS

- NGS was able to complete the initial collection of the Gravity for the Redefinition of the American Vertical Datum (GRAV-D). The GRAV-D dataset, collected by NGS over the past 16 years, is one of the key datasets that will be used to modernize the way U.S. elevations are determined.
- IOOS partners have installed 22 water level sensors and 1 coastal flooding webcam, recapitalized 11 high-frequency radar stations, purchased 2 water quality sensors and 8 satellite tags, and deployed 5 new buoys and 4 Imaging Flow Cytobots.



# NOAA BIL & IRA - CO-OPS & OMAO

## For CO-OPS

- In August 2024, the NWLON station in Ogdensburg, NY was rebuilt. This new station is designed to support a full suite of sensors (3 primary water level sensors, dual winds, air temperature, water temperature, barometer, and GNSS).
- In July 2024, station upgrades and a MWWL sensor transition were completed at the Sewells Point NWLON station in Norfolk, VA using BIL funding
- In May 2024, a MWWL sensor was installed under the NOAA pier in Juneau

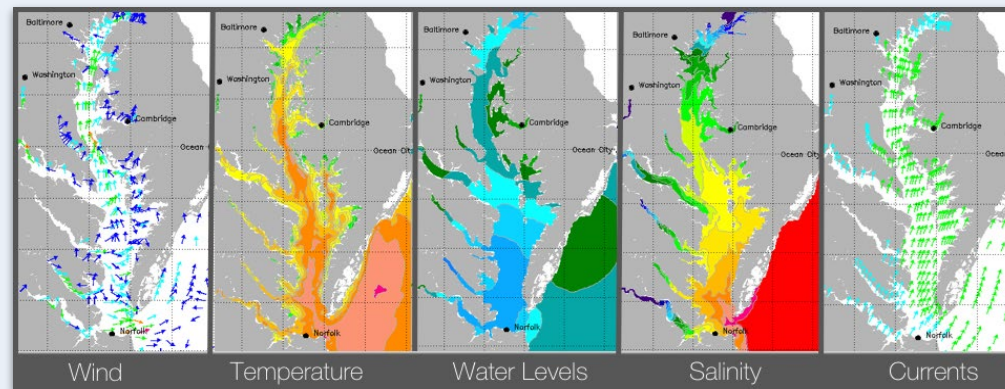
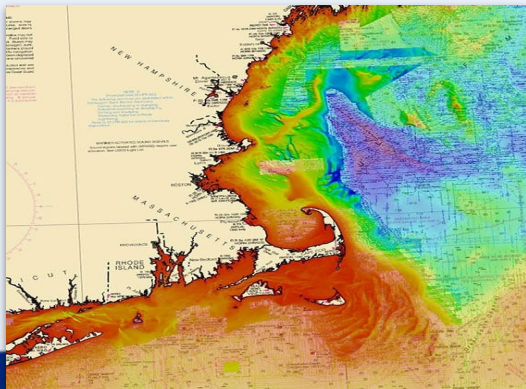
For OMAO, NOAA ship Oscar Dyson, one of five Fishery Survey Vessels, will undergo mid-life repair in FY 2026 from \$85M of BIL.





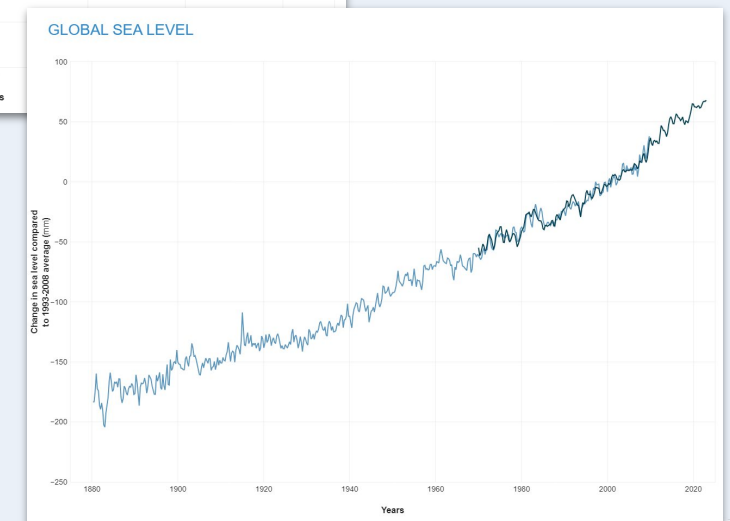
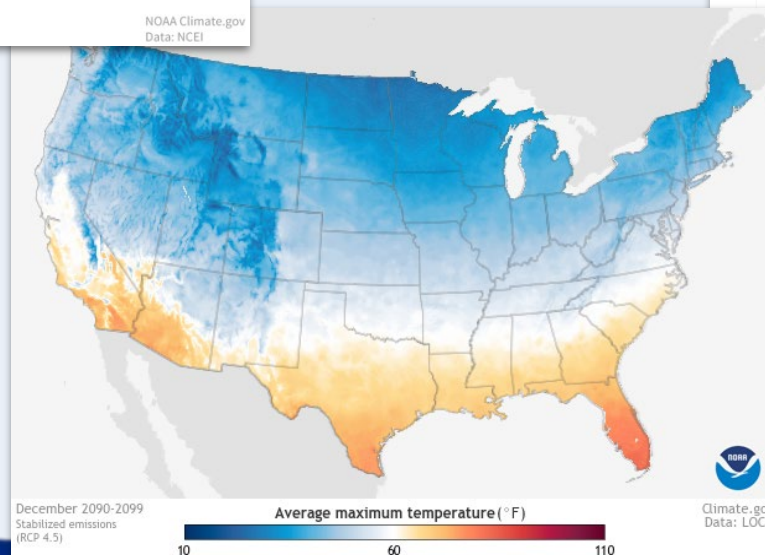
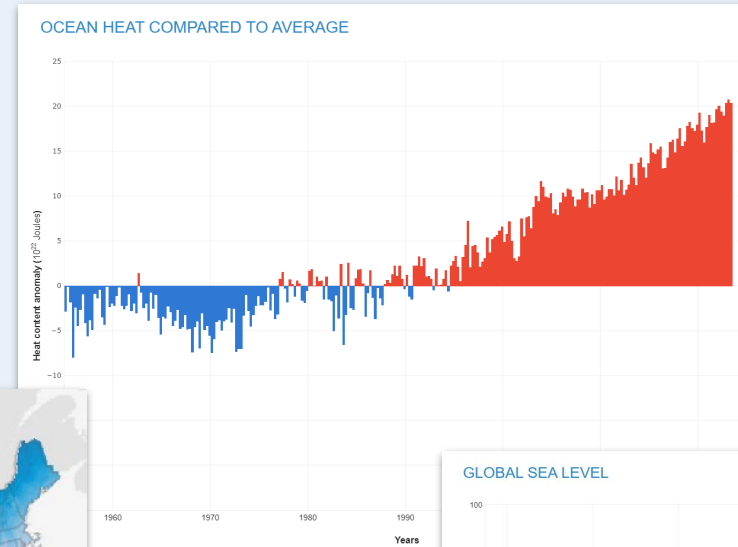
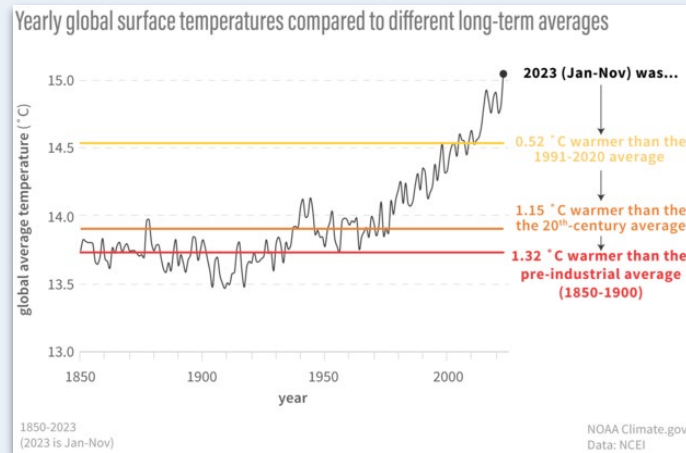
# Marine Board's Current Areas of Interest

- Emerging Technologies and Potential Impacts on Maritime
  - Maritime Resilience
- Precision Marine Navigation  
... the ability of a vessel to navigate safely and efficiently within U.S. waterways. Relying on foundational oceanographic, meteorological, and electronic navigational charting data; observations; predictions and forecasts; and critical maritime information to provide support to mariners throughout every step of a voyage.



# Marine Board Area of Interest for Consideration

## Authoritative Data



# Thank you



National Ocean Service