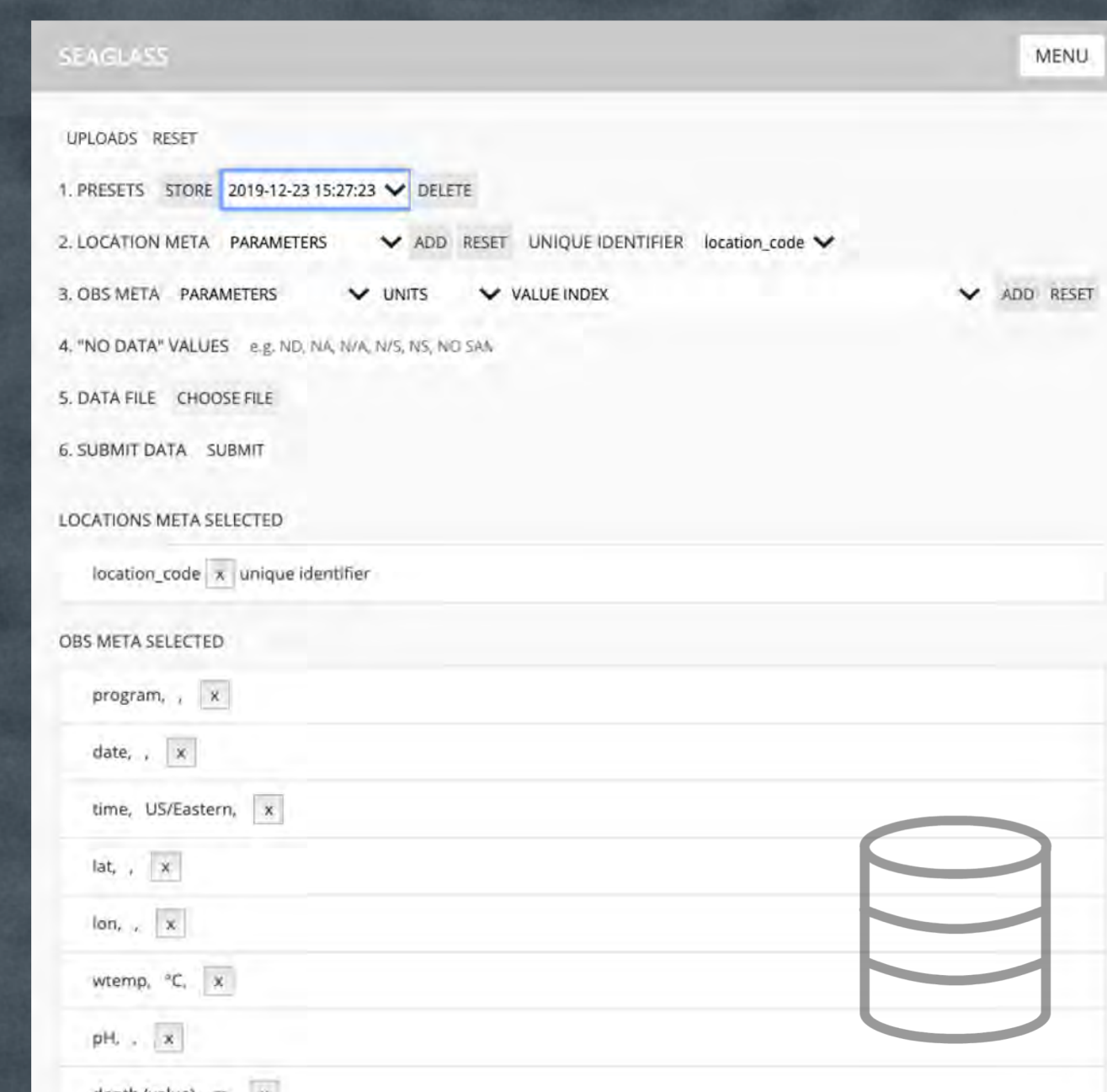


# OD44D-3522 - Democratizing Data Through Art: A Web-Based, User-Centric Approach to Water Quality Analysis and Visualization

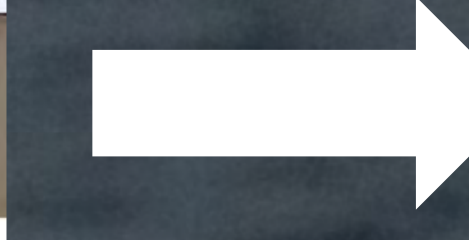
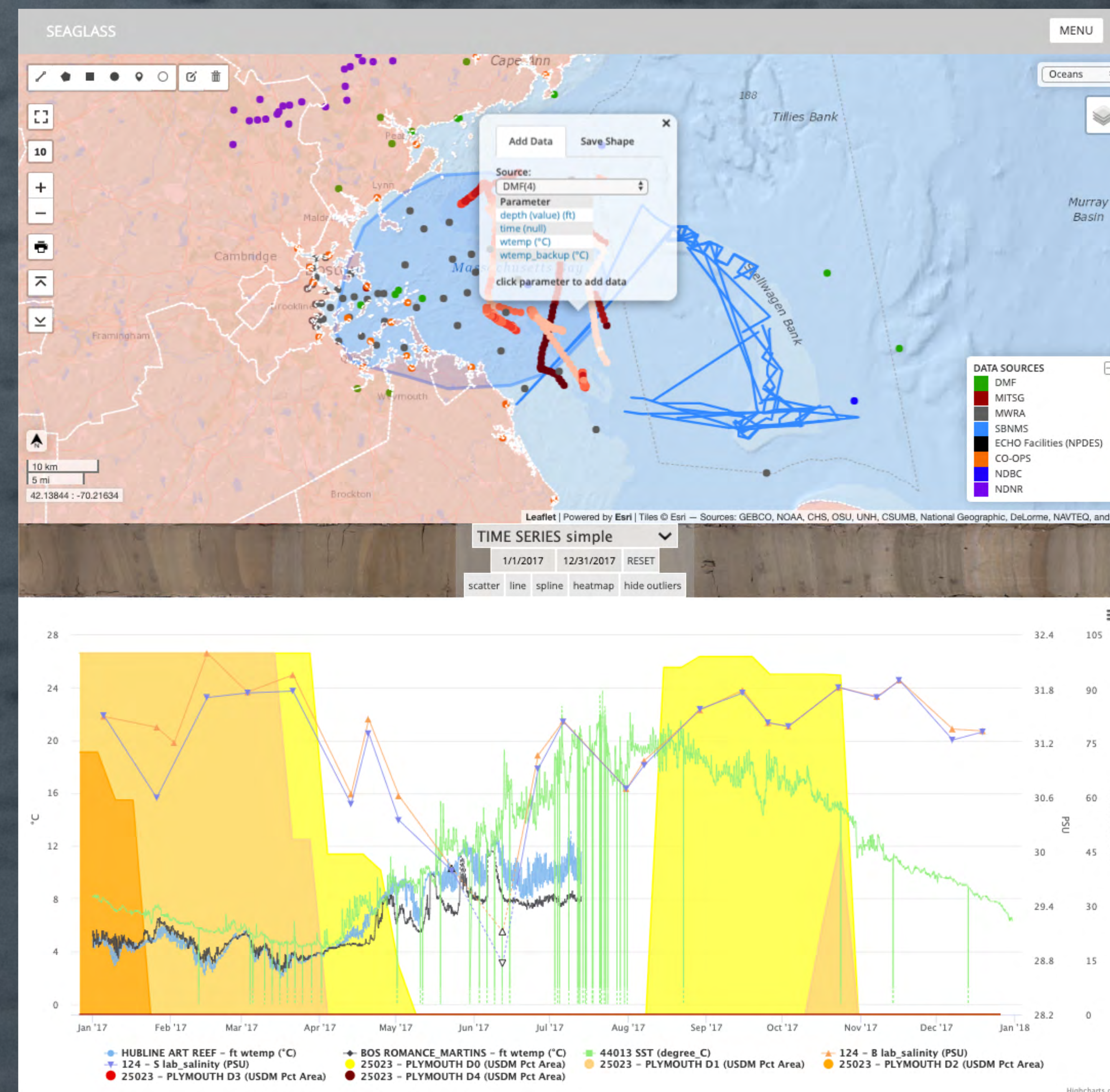
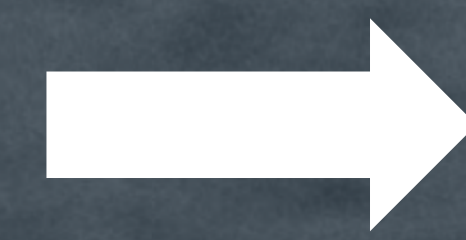
W. Benjamin Bray  
MIT Sea Grant

Dr. Robert Vincent  
MIT Sea Grant

Kaitlyn Shaw  
Ipswich River Watershed  
Association



Upload Data to Internal Database  
and / or  
Utilize Data / Map Services



- Download PNG image
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  - Download SVG vector image
  - Download Plotted Data
- MORE

<https://mit.sea-grant.net/seaglass>

Try it on your laptop, tablet, or mobile!

## MOTIVATION

- Expressed need by NGOs, private companies and funded researchers for cutting-edge solutions to data management and analysis issues
- Expressed need by local communities for increased access to more datasets

## GOALS

- Significantly improve workflows for data retrieval, analysis and scientific dissemination; reduce staff time required for tasks, eliminate some tasks, and create new tools for better utilization of data
- Enable users to access a greater variety of data types
- Provide virtual computing space for user-provided code
- Increase impact of data on stakeholders through increased access and effective presentation

## PROCESS

- Collaborated with staff, funded researchers, outreach professionals, and artists to identify the most effective features
- Utilized popular, open-source web technology, and flexible, scalable storage
- Ensured cross-platform / cross-device compatibility and customizability

## CURRENT / FUTURE USERS

- Nantucket Dept of Natural Resources (NDNR) and Town of Nantucket, MA
- Funded Researchers
- Massachusetts Water Resources Authority (MWRA)
- Stellwagen Bank National Marine Sanctuary (SBNMS)
- Massachusetts Div. of Marine Fisheries (DMF)
- Boston Harbor Cruises