

PUGET SOUND

National Estuary Program

SHORELINE MONITORING TOOLBOX PROTOCOL IMPLEMENTATION AND DATA MANAGEMENT

The Shoreline Monitoring Toolbox provides standardized approaches to monitor shorelines in Puget Sound. Groups have been incorporating protocols into their shoreline monitoring plans, and there is a need to develop resources that will further toolbox implementation and broaden results.

What we're doing

The main objective of this project is to inform success of shoreline armoring removal. This project will:

- Create a database for the input and processing of data collected using Toolbox protocols.
- Train partners in protocols and database use.
- Engage partners and practitioners in developing the database.
- Produce recommendations on next steps to use the database for assessing restoration effectiveness.

The screenshot shows the homepage of the "Shoreline Monitoring Toolbox". The header reads "Shoreline Monitoring Toolbox". Below the header, there's a "HOME" button and a "INTERESTED USE DECISION TREE" link. The main content area has a "Welcome" message: "Welcome to the Shoreline Monitoring Toolbox, a resource for standardized approaches to monitor shorelines in Puget Sound, WA." It features four main navigation links: "Decision Tree" (with a sub-link "Start here for a guide to decide what to monitor"), "Protocols" (with a sub-link "Methods for different types of monitoring"), "Data Management" (with a sub-link "Strategies for collecting and entering data"), and "References" (with a sub-link "Other efforts related to monitoring in Puget Sound").

WHY IS THIS ISSUE IMPORTANT

The development of a database and expansion of the toolbox will generate information that can be used in guidance to encourage more armoring removals, and will provide an adaptive management framework to evaluate effectiveness of future restoration projects.



WHAT YOU CAN DO

Participate in trainings on protocol and database use, and outreach on toolbox activities. Incorporate protocols into monitoring plans. Engage citizen science groups to expand monitoring capacity.

ABOUT WASHINGTON SEA GRANT

A leader in research, outreach and education for nearly 50 years, Washington Sea Grant helps people understand and address the challenges facing Washington's ocean and coasts. The Washington Sea Grant mission is to help people and marine life thrive by supplying research, technical expertise and educational activities that support the responsible use and conservation of ocean and coastal ecosystems.

FOR MORE INFORMATION

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Shoreline Monitoring Toolbox Protocol Implementation and Data Management

We created a database for the Shoreline Monitoring Toolbox, a resource to upload data from standardized protocols to monitor shorelines in Puget Sound, WA.

Project outcomes

- The database has been created based on four protocols - Beach Wrack, Insects, Logs, and Riparian Vegetation.
- Each of these protocols has data upload and download capabilities for users.
- A map displays locations of data collection.

The screenshot shows the homepage of the Shoreline Monitoring Database. At the top, there's a navigation bar with links for Home, Protocols and Data, Map, User Guide, Contact, and Downloads. Below the navigation is a large image of a shoreline with driftwood and vegetation. To the left of the image, there's text about the database being in the testing phase and reaching a final database of 3-5 protocols by June 2019. At the bottom, there are logos for Sea Grant Washington and the University of Washington College of the Environment.

Success stories

Twelve organizations have participated in data uploads/downloads via the database. Outreach has focused on user engagement and training of protocol use as well as data upload. [Engagement of volunteers](#) has been a goal, expanding the impact of citizen science volunteers in the community.



FUTURE OPPORTUNITIES

The project is continuing with funding from NTA 2018-0525. The main objective of this next phase is to inform effectiveness of shoreline restoration. This project will:

- Expand the number of protocols and amount of data in the database.
- Provide users with enhanced online functionality and visualization of data on the website.
- Analyze and interpret data.

Contact us if you wish to incorporate protocols into monitoring plans, and/or engage citizen science groups to expand monitoring capacity.

LINKS

shoremonitoring.org

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