Please consider joining us on Saturday October 19

- ***$5 Registration fee due in advance to hold you spot… Space is limited (40)***
- ***Rain Date: October 20***

$5 REGISTRATION FEE TO JOIN

Cash, Check or CheddarUp

- **https://urban-waters-restart-the-reef.cheddarup.com**

The Sound School

Sea Grant CONNECTICUT

Long Island Sound Study
A Partnership to Restore and Protect the Sound

Sound School – CT Sea Grant Increasing Community Awareness Through Sustainable Collaborations

Location: Sound School
60 South Water Street
New Haven CT 06519

October 19, 2024
8:30 AM – 4:30 PM

Tentative Agenda for the Day:

8:30 – Arrival and Set-Up at Thomas Diver Shop (SS Campus)

8:30 – 9:00 – Opening Remarks and Overview by Mulligan and Bouve

Rotation 1 (approx. 3 hours):
Understanding the Reef and Biodiversity of the Coastal System:

- Building a Reef Ball
  - *Participants will learn the science and engineering behind reef ball construction.*
- Coastal Macroalgae Diversity/Pressing
  - *Participants will learn taxonomic identification of the diverse marine algae in coastal New Haven, along with techniques and some materials to implement in their classrooms.*

12:00 – 12:30: In-between Rotations Participants Have Lunch

BRING YOUR OWN LUNCH PLEASE. WATER AND SNACKS WILL BE PROVIDED WE WILL ALSO HAVE A DISCUSSION ABOUT HOW TO FOSTER MORE COLLABORATIONS BETWEEN THE GROUPS

Rotation 2 (approx. 3 hours):
Understanding and Profiling Urban Waters (*Aboard Island Rover*):

- Analyzing Data from the New Haven Waterways
  - *Participants will travel coastal NH Harbor and discuss/profile a variety of sites currently evaluated by SS research students.*
  - *Included will be access to the information about field sites, the data spreadsheet and resources/samples of what's possible.*
- Adaptations of Marine Foodwebs
  - *Participants will collect/identify and discuss marine phytoplankton And fish/inverts collected from local NH waters.*

Rotations should wrap up around 4:30.

NGSS Standards Addressed:
Restart the Reef: HSN.Q.A.1, HS-ETS1-2, HS-LS2-6, HS-LS4-6, HS-LS2-4, HS-LS2-5.

Profiling Urban Waters: HS-ESS3-4, HS-LS2-2, WHST.9-12.2, HS-LS1-5, HSN.Q.A.3, HS-LS2-1.

SOUND SCHOOL DIVE CLUB 41° 18' 17.95" N, 72° 92' 88.13" W

ENVIRONMENTAL JUSTICE PROGRAM

In addition to the collaborative possibilities, we would like to bring to your attention several resources available to further enhance your classroom or workspace programming. These resources will be used and discussed at length during this workshop.

Downloadable Resources:

Lesson on climate change and marshes created for high schools: In the "Impacts of Climate Change on Long Island Sound Salt Marshes" module, students learn about the natural and anthropogenic impacts of climate change on salt marshes, delve into how scientists are studying the various impacts on salt marsh habitat, and gain a overview of different techniques for climate change research.

Lesson on climate change and marshes created for high schools | Connecticut Sea Grant (uconn.edu)

Long Island Sound Curricular Resource Guide: Funded by the EPA Long Island Sound Study and edited by Diana Payne, the 148-page guide is a resource for educators teaching about Long Island Sound. The Guide is divided into five sections: 1) background information about Long Island Sound (LIS), 2) LIS activities, 3) LIS lesson plans, 4) science lessons at a LIS field site, and 5) resources. The lesson plans and field site section were written by CT Sea Grant LIS Mentor Teachers, K-12 teachers who currently utilize LIS as a teaching tool in their curriculum. All lessons are aligned to the CT Science Frameworks, the NY Science Standards, the National Science Education Standards, and the Ocean Literacy Essential Principles and Fundamental Concepts.

Long Island Sound Curricular Resource Guide | Connecticut Sea Grant (uconn.edu)

Billion Oyster Project: Oyster/Reef Module: This module will lead students through oyster anatomy, ecology and incorporation into coastal reefs.

Billion Oyster Project - Digital Platform (bopuiprod.azurewebsites.net)

Seaweeds of Long Island Sound: A visual guide to identification of coastal marine macroalgae species. This book will help students identify red, green and brown algae.

Bulletin No. 39: Seaweeds of Long Island Sound (conncoll.edu)

Phytoplankton App for Identification: This apple app allows users to quickly identify phytoplankton in Long Island Sound waters.

https://apps.apple.com/us/app/phyto/id333237649