Why a National Estuarine Research Reserve for Connecticut?

CT Department of Energy & Environmental Protection
Office of Long Island Sound Programs,
NOAA Office for Coastal Management,
CT Sea Grant, &
University of Connecticut Marine Sciences Program

April 12, 2016
Dr. Jim Edson & Dr. Sylvain De Guise
University of Connecticut









UConn Avery Point



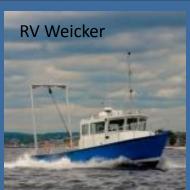


Dive Program



Rankin Lab















Basic Estuarine Research



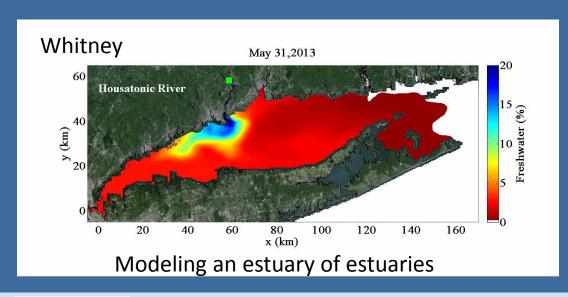
Carbon Budgets in Marshes



Ecology and conservation of birds in tidal marshes



Assessing embayment water quality



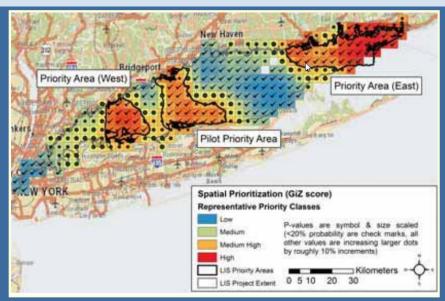




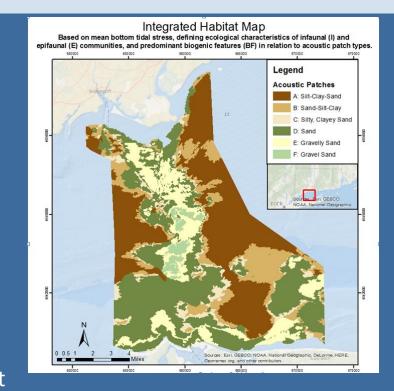




Applied Estuarine Research: LIS mapping



Identified priority areas for habitat mapping Federal, state and academic partnerships Developing data products to aid resource management



















Applied Estuarine Research: CIRCA



Connecticut Institute for Resilience and CIRCA Climate Adaptation

















Education – K through Gray





Touch, Taste & Smell of Science



- Hands-on K-12,
 Undergraduate and
 Graduate Education
- Teacher Professional Development
- Public outreach
- Citizen Science









Louis Stokes Alliance for Minority Participation









Citizen Science & MARN 4001









Monitoring: LISICOS (w/ NDBC & NERACOOS)

Long Island Sound Integrated Coastal Observing System

13.2 knots
17.7 knots
218 degT
45.0 degF
36.1 degF
30.12 inches Hg

Humidity: 71%

Significant Wave Ht: 1.8 feet

Maximum Wave Ht: 3.2 feet

Significant Wave Period: 2.7 secs

Average Wave Period: 2.6 secs

Wave Direction: 258.6 degT

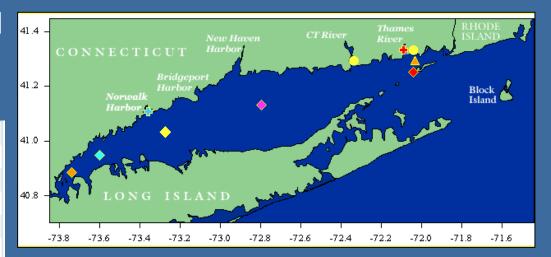
Wave Spread: 41.1 deg
Surface Water Temperature: 43.0 degF

Surface Salinity: 27.2

Surface DO Concentration: 0.6 mg/L

Surface DO Saturation: 100.5 %

Chlorophyll Concentration: 10.4 RFU







Coastal Laboratory for Atmospheric and Marine Sciences (CLAMS)

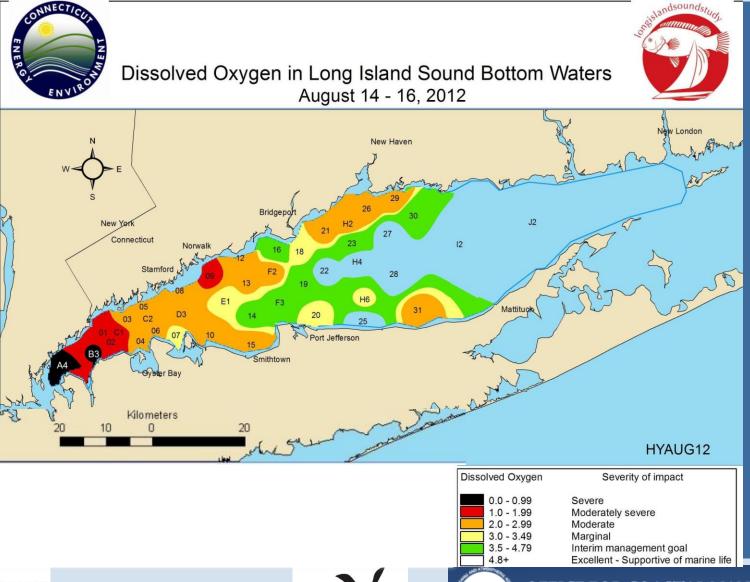








Monitoring: LISS Water Quality Monitoring



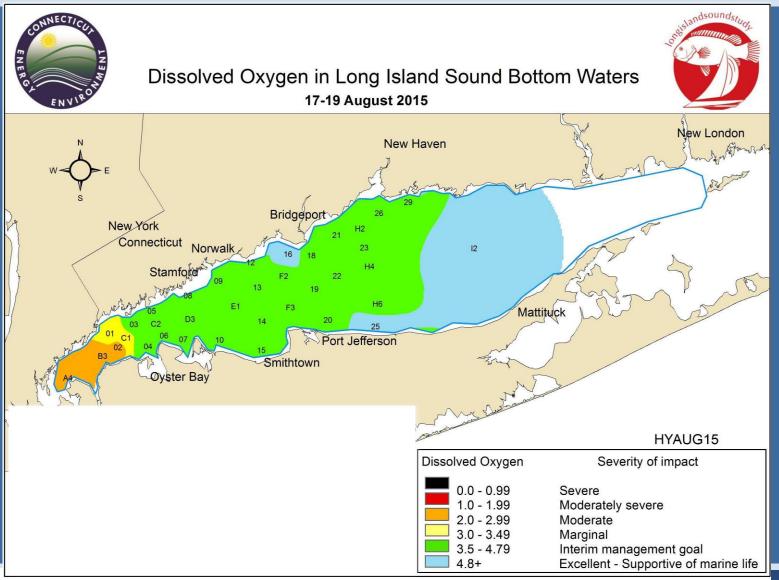








Monitoring: LISS Water Quality Monitoring











Monitoring: LIS Sentinel Monitoring for Climate Change



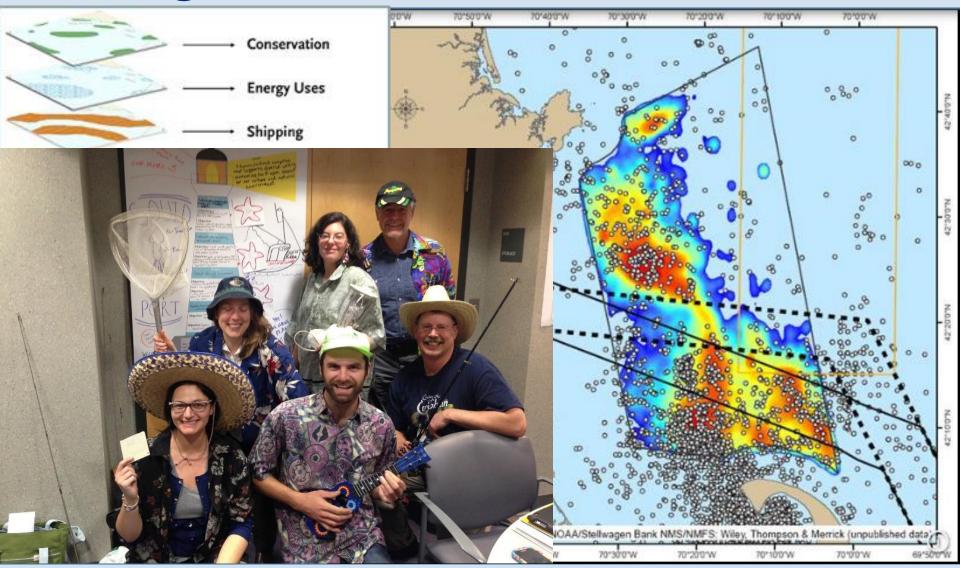








Training: Coastal and Marine Spatial Planning











Training: Climate Adaptation Academy

The Climate Adaptation
Academy provides
information on current
adaptation research, policy
and practice, and serves to
promote an exchange of
information between
municipal officials,
researchers, and other
professionals.

Read more >>



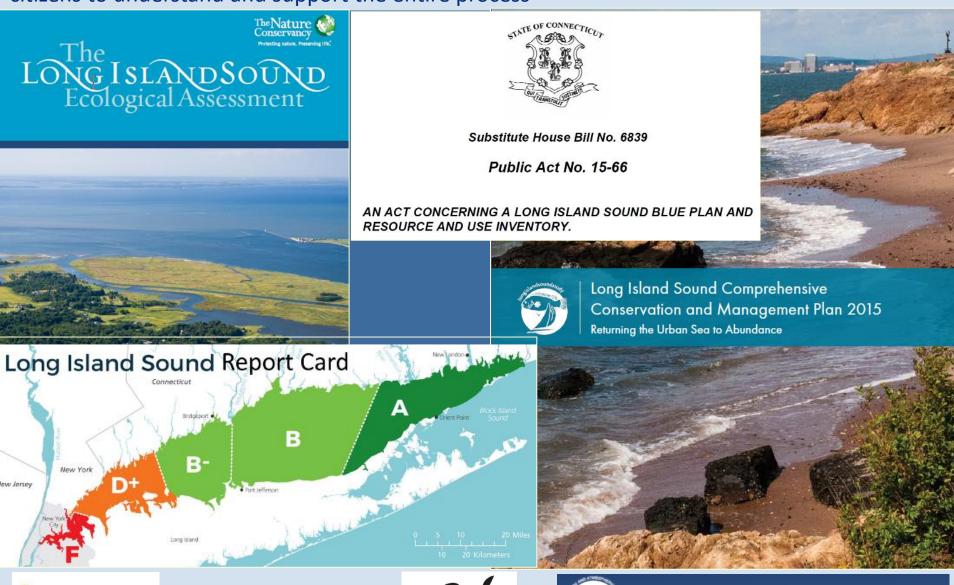








Stewardship – Enables wise management decisions based on sound science that engages citizens to understand and support the entire process











NERR – A Great Fit for Connecticut



A place-based opportunity to continue, enhance, coordinate an display ongoing hands on activities







