On-Demand Dedicated Sessions

Connecting Science and Management: Helping salt marshes adapt to climate change 1. Hydrologic connections

Moderator: Susan Adamowicz, Rachel Carson National Wildlife Refuge/USFWS

- Holistic Approach to Estuary-scale and Regional Marsh Restoration
  Peter Phippen, MA National Estuary Program, Great Marsh Region
- Accelerated Sea Level Rise Exposes Legacy Impacts to Hydrology and Drives New Approaches to Habitat Restoration in Salt Marsh
  David Burdick, Jackson Estuarine Laboratory, Univ. New Hampshire
- Restoring hydrology for marsh resiliency
  Nancy Pau, Parker River National Wildlife Refuge/USFWS
- What comes first, the marsh or the egg? Balancing successful Saltmarsh Sparrow reproduction and marsh restoration in a changing environment
  Bri Benvenuti, Rachel Carson National Wildlife Refuge/USFWS
- Nesting Micro-topography for Sparrows: Beneficial spoil use
  Lauren Healey, Parker River National Wildlife Refuge/USFWS

Connecting Science and Management: Helping salt marshes adapt to climate change 2. Sediment supply

Moderator: Susan Adamowicz, Rachel Carson National Wildlife Refuge/USFWS

- Quantifying the importance of storms to marsh suspended sediment supply.
  Sarah Black, Boston University
- Sediment availability and sediment fluxes in Plum Island Sound
  Sergio Fagherazzi, Boston University
- An overview of thin layer sediment placement projects at two USFWS RI National Wildlife Refuges, and lessons learned
  Nick Ernst, RI National Wildlife Refuge Complex, USFWS
- The extent and impact of the 2018 Bomb Cyclone ice rafting event
  Duncan M FitzGerald, Boston University
  Gregg E. Moore, University of New Hampshire

Connecting Science and Management: Helping salt marshes adapt to climate change 3. Effects of waves & erosion

Moderator: Susan Adamowicz, Rachel Carson National Wildlife Refuge/USFWS

- Marsh edge characteristics controlling the distribution and type of edge erosion
  Lucila Houttuijn Bloemendaal, Boston University
- Patterns of erosion and deposition along Castle Neck Barrier Island and in Essex Bay, MA
  Alice Staro, Boston University
- Urban Living Shoreline Project in Salem, MA
Barbara Warren, *Salem Sound Coastwatch & MassBays*

- **Winter wave attenuation across a tidal marsh in Newbury, MA**
  Madeline Foster-Martinez, *University of New Orleans*

- **Community-Based Eelgrass Restoration in Great Marsh, MA**
  Alyssa B Novak, *Boston University*

### The Long Island Sound Study: Water-Quality-Partners Monitor Nitrogen Inputs and Impacts

**Moderator:** James Ammerman, *Long Island Sound Study (LISS)/New England Interstate Water Pollution Control Commission (NEIWPC)*

- **Nitrogen Loading Analysis of Tributaries to Long Island Sound**
  John Mullaney, *United States Geological Survey (USGS)*

- **Groundwater Flow and Nitrogen Transport in Aquifers on the North Shore of Long Island Sound**
  Dr. Janet Barclay, *United States Geological Survey (USGS)*

- **Unified Water Study (UWS): Filling the Margins**
  Peter Linderoth, *Save the Sound (STS)*

- **IEC Water Quality Monitoring in Western Long Island Sound**
  Evelyn Powers, *Interstate Environmental Commission (IEC)*

- **Remote Sensing of Water Quality and Phytoplankton Dynamics Across a Vulnerable Urbanized Coastal Ecosystem**
  Dr. Maria Tzortziou, *City University of New York (CUNY)*

### Interdisciplinary team approaches to climate adaptation in Northeast parks, from vulnerability to restoration

**Moderator:** Amanda Babson, *National Park Service*

### System-Scale Approaches to Large Scale Restoration: Scientific and Social

**Moderator:** Donna Ball, *San Francisco Estuary Institute*

- **Regional Vision: Baylands Goals and Science Update**
  Letitia Grenier, *SFEI-ASC*

- **Regional Funding: SFBRA/Measure AA**
  Luisa Valiela, *EPA*

- **Regional Permitting Approach: BRRIT**
  John Bourgeois, *Environmental Science Associates (ESA)*

- **Regional Adaptation Strategies: Adaptation Atlas**
  Julie Beagle, *SFEI-ASC*

- **Regional Monitoring: Wetland Regional Monitoring Plan**
  Heidi Nutters, *San Francisco Estuary Partnership (SFEP)*
Ghosts of Knauss Past, Present, Future; The John A. Knauss Marine Policy Fellowship

Moderator: Shelby Butz, Coastal States Organization

- The Sea Grant Knauss Marine Policy Fellowship, an Overview
  Maddie Kennedy, National Sea Grant Office; NOAA
- Becoming a Catalyst for Collaboration
  Bari Greenfeld, USACE
- Building Resilience at FEMA and Beyond!
  Janan Evans-Wilent, Community Infrastructure Resilience Branch, FEMA
- Little Fish in a Big Policy Pond
  Shelby Butz, Coastal States Organization and EPA
- A Glimpse Inside the Fellowship from an Outsider
  Bradley Watson, Coastal States Organization

Assessment Methods and Actionable Metrics to Enhance Salt Marsh Resilience

Moderator: Jamie Carter, NOAA Office for Coastal Management

- A Massachusetts perspective on statewide salt marsh condition assessment
  Marc Carullo, Massachusetts Office of Coastal Zone Management
- Maine’s Ecological Integrity Assessment for Salt Marsh Condition
  Kristen Puryear, Maine Natural Areas Program
- Synthesizing Monitoring Data to Improve Coastal Wetland Management Across New England
  Christopher Peter, Great Bay National Estuarine Research Reserve
- Spatially integrative metrics reveal hidden vulnerability of microtidal salt marshes
- Using salt marsh metrics in the decision making process
  Cory Riley, Great Bay National Estuarine Research Reserve

Increased Storms and Rising Seas: Coastal and Riverine Adaptation Techniques to Enhance Ecological and Community Resiliency

Moderator: Caitlin Chaffee, RI Coastal Resources Management Council

- Pocasset River Watershed Flood Resilience Project
  Dean Audet, Fuss & O’Neill, Inc.
- Removal, retreat and regrading: Adapting to sea level rise and erosion along the coast
  Wenley Ferguson, Save The Bay
- Rhode Island Shoreline Adaptation, Inventory and Design Project
  Caitlin Chaffee, RI Coastal Resources Management Council
- Designing Coastal Resiliency in South Boston: Moakley Park Case Study
  Julie Eaton, Weston and Sampson
- Dam Removals for Nature Based Fish Passage Projects: Challenges and Lessons Learned
  Stephen Fuller, SumCo Eco Contracting
Successfully Navigating a Multi-year Process and Diverse Stakeholders to Create a National Estuarine Research Reserve

Moderator: Matthew Chasse, NOAA

- Lake Superior NERR Site Evaluation Process and Lessons Applied to a Decade of Reserve Operations
  Dr. Patrick Robinson, University of Wisconsin-Madison
- Assessing the Challenges of Proposing a Multi-Component Reserve in Connecticut
  Kevin P. O'Brien, Connecticut Department of Energy and Environmental
- Mission-Aransas NERR - Working with Rural Landowners and the Texas General Land Office
  Sally Palmer, The University of Texas at Austin's Marine Science
- He'eia NERR Advancing Partnerships following Traditional Native Hawaiian Principles
  Dr. Robert Toonen, Hawai'i Institute of Marine Biology
- The Evolution of NOAA Support for Estuarine Reserve Designations
  Matt Chasse, NOAA's Office for Coastal Management

Increased Frequency of Algal Blooms and Climate Change: What's Happening, and What's Expected?

Moderator: Maryann Dugan, NEIWPCC

- Guy Foster, United States Geological Survey
- Jennifer Graham, United States Geological Survey

Quantifying Fish Productivity from Coastal Habitats: Advancing Science and Tools with a Focus on Application

Moderator: Emily Farr, NOAA Fisheries - Habitat

- Estimating Fish and Invertebrate Production Associated with Key Coastal Habitats in the United States
  Jonathan Grabowski, Northeastern University
- Putting science in the hands of decision-makers: A tool to apply habitat valuation science to fisheries management
  Bryan DeAngelis, The Nature Conservancy
- Oyster reef ecosystem services in the Chesapeake Bay
  Bruce Vogt, NOAA Chesapeake Bay Office
- Estimating response of Pacific salmon to estuarine and floodplain restoration through meta-analysis
  Terill Hollweg, NOAA Restoration Center
- Multidimensional biodiversity and functionality of a foundation habitat
  Christopher J. Baillie, East Carolina University

The role stewardship plays in measuring success of restoration

Moderator: Kara Fox, National Audubon Society

- A Win-Win for Birds and Beneficial Use
  Dave Buzan, Freese and Nichols
- The Paul J. Rainey Wildlife Sanctuary in LA as a living laboratory for emerging restoration and wildlife management research
Erik I Johnson, *Audubon Louisiana*
- **Lightning Point Restoration in Bayou la Batre, AL**
  Mary Kate Brown, *The Nature Conservancy*
- **Restoration of Coastal Preserves utilizing beneficial use and the need for continued restoration for birds and people**
  Jared Harris, *Mississippi Department of Marine Resources*
- **Restoration and stewardship of regionally important bird nesting islands in the Tampa Bay Region**
  Mark Rachal, *Audubon Florida Coastal Island Sanctuaries*

**Facing Tomorrow's Challenges with Today's Tools, Together**


- **Avoiding Disaster! How Diverse Stakeholders Came Together to Stabilize Our Riverbank**
  Ms. Dinell Clark, *Williamsburg Condominium Association*
- **Designing What Each Site Requires**
  Varoujan Hagopian, PE. F.ASCE, *GEI Consultants, Inc.*
- **Walking That Tightrope: Permitting Innovative Designs with Federal, State and Local Authorities**
- **Creating Nature-Based Projects, Together: Construction Lessons Learned**
  Travis Sumner, *SumCo Eco-Contracting*
- **Sen. Joseph Finnegan Port Norfolk State Park: Owner Perspectives**
  See "Additional Information" below, *Massachusetts Dept. Conservation & Recreation*

**Silver Jackets and the USACE Flood Risk Management Program: Resources for Coastal Practitioners**

Moderator: Bari Greenfeld, *USACE Institute for Water Resources*

- **Overview of the USACE Flood Risk Management Program and Silver Jackets**
  Sheila Warren, *USACE New England District*
- **Maine Silver Jackets High Water Mark Initiative**
  Jamie Carter, *NOAA Office for Coastal Management*
- **Louisiana Silver Jackets: Coastal Projects**
  Nik Richard, *USACE New Orleans District*
- **Development of the Guam Silver Jackets Team**
  Edwin Reyes, *Guam Coastal Management Program*
- **Maryland Silver Jackets: Coastal Projects**
  Stacey Underwood, *USACE Baltimore District*

**Selecting and Designing Appropriate Nature-Based Shore Protection Techniques in a Complex Geologic Environment**

Moderator: Rebecca Haney, *MA Office of Coastal Zone Management*
Comparison of Various Innovative Applications with Oyster Catcher Materials

Moderator: Rick Harter, WSP/Ecology & Environment, Inc.

- **Overview of Oyster Catcher: Development, Scaled Up Use and Expanding Applications**
  Niels Lindquist, Sandbar Oyster Company Inc.
- **Reef Materials Evaluation Experiment for the Franklin-98 Project**
  Josh Adams, Apalachee Regional Planning Council (ARPC)
- **Comparing biodegradable materials for oyster reef restoration in Florida**
  Linda Walters, University of Central Florida
- **Hard-Working Volunteers and Soft, Steep Bottoms - Using Oyster Catcher Materials as Part of a Shoreline Protection Solution**
  Bo Lusk, The Nature Conservancy (TNC)
- **Comparing abilities of alternative substrates to halt salt marsh erosion and support oyster reef development**
  Emory Wellman, East Carolina University

Advancing Stormwater Management with the Providence Stormwater Innovation Center

Moderator: William Helt, The Nature Conservancy

- **Stormwater Management at Roger Williams Park**
  Brian Byrnes, Parks & Recreation, City of Providence
- **Understanding Water Quality in Roger Williams Park and Engaging the Community**
  Ryan Kopp, Audubon Society of Rhode Island
- **Linking Green Infrastructure to Receiving Water Quality: Flow & Nutrient Flux Assessment**
  Art Gold, University of Rhode Island
- **Every Day Counts - Simpler, more effective and maintainable stormwater innovations from Departments of Public Works**
  Jamie Houle, University of New Hampshire
- **Using RWP to Provide Stormwater Management Education to Visitors and Practitioners**
  Meg Kerr, Audubon Society of Rhode Island

Addressing Sea Level Rise Impacts upon Environmentally Sensitive Sites

Moderator: Amy Hunt, EA Engineering, Science, and Technology, Inc., PBC

- **A Shift in The Climate Impact Paradigm from Response to Mitigation: Adapting to Address Environmental Cleanup Sites**
  Mr. Jason McNew, P.E., Sustainable Remediation Forum
- **Coastal Hazard Impacts to Solid Waste Disposal Sites: Block Island Landfill Case Study**
  Ms. Caitlin Chaffee, RI Coastal Resources Management Council
- **Coastal Resiliency Planning for the Natural and Built Environment: Case Study Northern Chesapeake Bay**
  Mr. Christopher L. Overcash, P.E., EA Engineering, Science, and Technology, Inc., PBC
- **Assessing the Resiliency of the Sachuest Point Remediated Landfill**
  Mr. Taber Midgley, P.E., EA Engineering, Science, and Technology, Inc., PBC
- **Remediation Projects Along Water Bodies: Construction Case Studies**
  Mr. Chad Sumner, SumCo Eco-Contracting, LLC
Coastal Wetland Restoration: Emerging Issues, Innovative Tools, and Evolving Practice with Experiences from Massachusetts

Moderator: Georgeann Keer, Massachusetts Division of Ecological Restoration

- The Cold Brook Eco-Restoration Project: Planning for the Present, Embracing the Future? Eric C. Ford, PWS, MA Dept. of Fish and Game, Division of Ecological
- Assessing a Critically Important Environmental Area Through a Climate Resiliency Lens Sean Duffey, Massachusetts Office of Coastal Zone Management
- Innovative Decision-making for Tide Gate Management at the Herring River; Cape Cod, MA Tim Smith, Restoration Ecologist, Cape Cod National Seashore
- Using Sea Level Affecting Marshes Model (SLAMM) derivatives to enhance coastal wetland restoration goals in Massachusetts Marc Carullo, Massachusetts Office of Coastal Zone Management
- Balancing Salt Marsh Restoration with Community Resiliency: Challenges and Approaches from Truro, MA Jarrod J. Cabral, Director, Town of Truro, Department of Public Works

Applying an Engineering With Nature® (EWN®) approach to the Restoration of Swan Island in the Chesapeake Bay

Moderator: Jeffrey King, US Army Corps of Engineers

- Setting the Stage: The Need for Island Restoration within the Chesapeake and NWR Matt Whitbeck, US Fish and Wildlife Service
- The Swan Island Project: History and Construction Danielle Szimanski, US Army Corps of Engineers, Baltimore District
- Ecological Parameters and Associated Sampling Jenny Davis, National Oceanic and Atmospheric Administration
- Hydrodynamic Parameters and Associated Sampling Joe Gailani, US Army Engineer Research and Development Center
- Sum of the Parts - Ecological Modeling and Tool Development Brook Herman, US Army Engineer Research and Development Center

Pursuit of Engineering With Nature® (EWN®) Strategies in the New Jersey Back Bays

Moderator: Jeffrey King, US Army Corps of Engineers

- Identifying and Visualizing Opportunities for Natural and Nature-Based Features (NNBF) in Regions of the New Jersey Back Bays Sean Burkholder, University of Pennsylvania
- Modeling Results for Placement of Large NNBF in the New Jersey Back Bays Candice Piercy, US Army Engineer Research and Development Center
- Advancing Science and Practice at the Seven Mile Island Innovation Laboratory (SMIIL)
Lenore Tedesco, *The Wetlands Institute*

- **The Collaborative Path Forward: Leveraging Opportunities to Implement Nature-Based Strategies in the New Jersey Back Bays**
  Ginger Kopkash, *New Jersey Department of Natural Resources*

Lessons Learned: Monitoring Biological Outcomes

Moderator: Amanda Lawrence, *U.S. Fish & Wildlife Service*

- **Uniting Forces: Bringing Ideas Together on Monitoring Biological Outcomes**
  Amanda Lawrence, *U.S. Fish & Wildlife Service*

- **Use of Large-Scale Living Shorelines in Protecting Beach Habitat: Monitoring and Lessons Learned in Delaware Bay, New Jersey**
  Danielle McCulloch Prosser, *U.S. Fish & Wildlife Service*

- **Shoreline armor removal fulfills nearshore ecosystem restoration following large scale dam removal: Elwha nearshore**
  Anne Shaffer, *Coastal Watershed Institute*

- **Lessons learned from an amphibian restoration project in an ephemeral pond system**
  Shawn Milar, *U.S. Fish & Wildlife Service*

- **Efforts to document the biological benefit of restoration actions for Pacific salmon - Alaska Pilot Studies**
  Michael Daigneault, *U.S. Fish & Wildlife Service*

How to Submit a Successful Offshore Renewable Energy Project: The Rhode Island Experience

Moderator: Jennifer McCann, *University of Rhode Island Coastal Resources Center and Rhode Island Sea Grant*

- **The Ocean SAMP: and overview and the role of the University**
  Jennifer McCann, *URI Coastal Resources Center/RI Sea Grant*

- **The Fisherman's Perspective during Development and Implementation**
  Fred Mattera, *Commercial Fisheries Research Foundation*

- **The Developers Perspective**
  John O'Keffe, *Orsted*

- **The Regulators Perspective**
  Grover Fugate, *RI Coastal Resources Management Council*

Insights and restoration policy applications derived from long-term monitoring of estuarine water quality

Moderator: Christopher Neill, *Woods Hole Research Center*

- **Leveraging long-term monitoring for nitrogen reduction projects**
  Rachel Jakuba, *Buzzards Bay Coalition*

- **Water quality monitoring on Cape Cod: Challenges and successes establishing a stakeholder-driven water quality database**
  Tim Pasakarnis, *Cape Cod Commission*

- **Importance of long-term water quality data to understanding anomalous events in the context of climate change**
Amy Costa, Center for Coastal Studies

- Climate change impacts on estuarine water quality: Trend analyses of long-term monitoring data from Waquoit Bay, MA (USA)
  Jordan Mora, Waquoit Bay National Estuarine Research Reserve
- Linking water quality monitoring in San Francisco Bay to nutrient management
  Ariella Chelsky,

Eco-Restoration of Retired Farmlands: Creating Resiliency Supporting America's Estuaries
Moderator: Nick Nelson, Inter-Fluve

- River and wetland restoration increase coastal and community resiliency
- Owner Perspectives
  A.D. Colburn, Falmouth Rod & Gun Club
- Strategies for Success and Lessons Learned - Design
  Marty Melchior, Inter-Fluve
- "The Work" to Restoring Cranberry Bogs: Strategies for Success and Lessons Learned
  Travis Sumner, SumCo Eco-Contracting
- Land Trust Perspectives
  Michael Lach, Executive Director, Harwich Conservation Trust, Harwich, Mass.

Punching above our weight: the significance of Peconic Estuary Partnership to national coastal management efforts
Moderator: Joyce Novak, Peconic Estuary Partnership

- Living on the edge: analysis of Z. marina and potential for restoration
  Bradley Peterson, PhD, Stony Brook University
- Restoring and monitoring alewife in the Peconic River
  Elizabeth Hornstein, Peconic Estuary Partnership
- Demonstration of living shoreline restoration techniques and the ecological benefit of incorporating ribbed mussel
  Barry Udelson, Cornell Cooperative Extension of Suffolk County
- Climate change planning through critical land protection and criteria-based prioritization
  Lena DeSantis, Anchor QEA
- Regional partnerships for land protection in the Peconic watershed
  Sarah Schaefer, Peconic Estuary Partnership

Long Island Sound Hypoxia 2.0
Moderator: Katie O'Brien-Crystalton, CT Department of Energy and Environmental Protection

- Long Island Sound Ambient Water Quality Monitoring Program: Overview and Analysis of Program Data
  Matt Lyman, Connecticut Department of Energy and Environmental Protection
- Harmful Algal Bloom Species Associated with Severe Hypoxia in Long Island Sound, NY: Summer 2019
  Diane I. Greenfield, City University of New York
Long Island Sound Tidal Wetland Restoration: Innovation in a Changing Environment

Moderator: Victoria O'Neill, New England Interstate Water Pollution Control Commission

- Moving with the Marsh: a marsh migration buffer demonstration
  Juliana Barrett, Connecticut Sea Grant/UConn Extension
- Piloting Salt Marsh Restoration Techniques in NYC
  Rebecca Swadek, NYC Parks
- Stratford Point Living Shoreline: assessing carbon sequestration and fish use
  Jo-Marie Kasinak, University of Connecticut
- Connecticut's Coastal Marshes - Then, Now and the Future
  David Kozak, CT Department of Energy & Environmental Protection
- Incorporating Multiple Restoration Targets for Coastal Habitat Resiliency at the Great Meadows Marsh
  Ashlee Tyce, EA Engineering, Science, and Technology Inc., PBC

Building Resilience to our Natural and Developed Infrastructure

Moderator: Tom O'Shea, The Trustees

- Trustees Marsh Resiliency Project - Scaling up Ditch Remediation and other nature-based strategies to Help the Great Marsh Ke
  Russ Hopping and Georgeann Keer, The Trustees and MA DER
- A Model for Roads through Coastal Marshes - Argilla Road Case Study
  Frank Ventimiglia, Town of Ipswich DPW
- Designing Adaptive Buildings at-risk of flooding near marshes and dunes - The Trustees Coastal Education Center Concept
  Sam Batchelor, DesignLab Architects
- Buying Time for Barrier Beaches and Coastal Banks for Public Access and Habitat
  Tara Marden, Woods Hole Group, Inc.
- Trustees’ State of Our Coast Report for 13 North Shore Communities
  Tom O'Shea and Brittany Hoffnagle, The Trustees

Restoring Wetlands from Farmed Cranberry Bogs in Coastal Massachusetts

Moderator: Sara Quintal, Buzzards Bay Coalition

- Cranberry Bog Restoration - an Opportunity to Re-gain Wetlands in Massachusetts
  Eivy Monroy, Massachusetts Division of Ecological Restoration
- Potential for Nitrogen Removal by Restoring Wetlands on Retired Cranberry Bogs
Engaging Communities in Resilience through Nature-Based Strategies
Moderator: Kelly Samek, NOAA National Sea Grant Office

- Leveraging Natural Resources Toward Resilience: Community Based Monitoring and Restoration
  Alyson Eberhardt, New Hampshire Sea Grant
- From Science to Adaptation: Developing a Beach Restoration Model to Improve Coastal Resiliency in Santa Monica Bay
  Melodie Grubbs, USC Sea Grant Program
- Putting Green Stormwater Infrastructure to the Test: Seven years of research on soil media and vegetation design
  Stephanie Hurley, University of Vermont
- Green Infrastructure and Flood Insurance: Is there a connection?
  Niki L. Pace, Louisiana Sea Grant Law & Policy Program
- Credential Training to Promote Sustainable Landscapes
  Amanda K. Rockler, Maryland Sea Grant

Updates from the Field: Successes and Challenges in Inter-agency Efforts to Restore the Maidford River Watershed
Moderator: Elizabeth Scott, Elizabeth Scott Consulting

- Protecting a Salt Marsh of Concern with Circulation Improvements and Thin Layer Deposition.
  Charlie Vandemoer, US Fish & Wildlife Service
- Flood Plain Restoration to Increase Maidford River's Flood Storage Capacity: New Meanders and Restored Riparian Buffers
  William Guenther, Fuss & O'Neill
- Getting to "Yes": Building property owner and citizen support for flood plain and buffer restoration
  Jed Thorp, Save the Bay
- Using Green Infrastructure and Retrofits to Existing Stormwater Controls to Mitigate Flooding and Improve Water Quality
  Tom O'Loughlin, Town of Middletown, RI
- Reducing Agricultural Pollution: Inter-agency Coordination to assist Farmers with implementing BMPs
  Sara Churgin, Eastern RI Conservation District
The Southeast New England Network: Healthy Watersheds, Sustainable Financing and Long-term Climate Resilience through Stormwa

Moderator: Martha Sheils, New England Environmental Finance Center

- The Southeast New England Network: Empowering Local Communities to Manage Stormwater
  Jon Kachmar, New England Environmental Finance Center
- Training and Leadership for Climate Resilience and Stormwater
  Joanne Thowe, Thowe Environmental
- Technical Assistance to Advance Stormwater and Watershed Management
  Elizabeth Scott, Elizabeth Scott Consulting
- Developing a New England Stormwater Retrofit Manual
  James Houle, University of New Hampshire Stormwater Center
- Low Impact Development and Ordinance Review for Sustainability
  Heidi Ricci, Mass Audubon

Ecosystem Services Frameworks to facilitate watershed-wide communication, management & decision making

Moderator: Emily Shumchenia, E&C Enviroscape

- MassBays Estuary Program: Water quality and habitat targets tied to desired uses and ecosystem services
  Margherita Pryor, EPA Region 1, MassBays Estuary Program
- Developing an Integrated Ecosystem Services Framework for the US EPA Southeast New England Program
  Emily Shumchenia, E&C Enviroscape
- (INVITED)
  Holly Greening, Tampa Bay Estuary Program (retired)
- (INVITED)
  Catherine Corbett, Lower Columbia River National Estuary Program
- (INVITED)
  Martha Sutula, Southern California Coastal Water Research Project

Understanding the Risk to Structures and Infrastructure in Coastal RI

Moderator: Malcolm Spaulding, Ocean Engineering, University of RI

- Application of STORMTOOLS Coastal Environmental Risk Index (CERI) to Inform State and Local Planning and Decision Making along
  Malcolm L. Spaulding, Ocean Engineering, University of RI
- Development and Implementation of the STORMTOOLS CERI Mobile Application
  Nathan Vinhateiro, Ocean Engineering, University of Rhode Island Coastal Institute
- Assessing coastal hazard from extreme storms using a phase resolving wave model: Application to Narragansett, RI
  Annette Grilli, Ocean Engineering, University of RI
- Shoreline adaptation study for Green Hill Pond
  Reza Hashemi, Ocean Engineering, University of RI
- Development and application of the STORMTOOLS Design Load (SDL) Maps
  Alexa Leone, Ocean Engineering, University of RI
The Crucial Role of Policy in Coastal Conservation

Moderator: Susan-Marie Stedman, NOAA National Marine Fisheries Service

- **Policy: What is it and Why Should I Care?**
  Susan-Marie Stedman, NOAA National Marine Fisheries Service
- **The Development of the NOAA Mitigation Policy**
  Katherine Sheppard, NOAA National Marine Fisheries Service
- **The Role of Science in Environmental Policy**
  Rick Bennet, *U.S. Fish and Wildlife Service*
- **Urban Policies and Wetland Conservation**
  William Dooley, *Association of State Wetland Managers*
- **Economics and Environmental Policy**
  Dennis King, *King and Associates LLC*

Collaborative Stakeholder Engagement for Multi-jurisdictional Coastal Watershed Resource Planning

Moderator: Danica Warns, *Mass Audubon*

- **What Happens When You Open the Door . . .?**
  Bill Napolitano, *SRPEDD*
- **Using Citizen Monitoring to Promote Estuary Rehabilitation**
  Steve Silva, *Taunton River Watershed Alliance*
- **The Town of Middleborough, MA MVP Planning, and Our Waterways**
  Tricia Cassady, *Town of Middleborough Conservation Commission*
- **The City of New Bedford Prioritizing Health of our Natural Resources**
  Ymane Galotti, PE, *City of New Bedford Dept of Public Infrastructure*
- **Regional Green Infrastructure as a Tool for Local Engagement**
  Eric Walberg, AICP, *Manomet, Inc.*

Sediment enhancement as an intervention to build coastal resiliency

Moderator: Cathleen Wigand, *US Environmental Protection Agency*

- **Making the Case for Sediment Enhancement Within a Restoration and Management Framework: Two Case Studies in RI**
  Caitlin Chaffee, *RI Coastal Resources Management Council*
- **Changes in apparent conductivity and soil salinity at restored salt marshes located in two RI coastal ponds**
  Richard McKinney, *US Environmental Protection Agency*
- **Ecological responses to sediment enhancement: A 5-year case study from Ninigret marsh, RI**
  Kenny Raposa, *Narragansett Bay Natl Estuarine Research Reserve*
- **Biogeochemical responses of salt marsh soils to restoration through sediment enhancement**
  Joseph Loffredo, *ORISE Research Trainee, US EPA*
- **Seed colonization and other marsh vegetation responses following sediment enhancement**
  Joseph Bishop, *ORISE Research Trainee, US EPA*
On-Demand Individual Presentations
In Alpha order by Presenter Last Name (as of August 13, 2020)

Making Multiple-Decade Multiple-Partner Marsh Restoration Work: A Case Study from Florida
Corey Anderson, Florida Fish and Wildlife Conservation Commission

Citizen Science Water Quality Monitoring in Texas: Issues, Solutions and Lessons Learned
Sandra Arismendez, The Meadows Center for Water and the Environment

Trustees Coastal Ed Center Design for Adaptation and Re-use - Designing Adaptive Buildings at-risk of flooding near marshes a
Sam Batchelor, designLAB architects

Quantifying the estuarine nekton community response following restoration of coastal wetlands in northeast FL
Jeff Beal, Florida Fish and Wildlife Conservation Commission

An Exploration of Restoration Techniques in Degraded Salt Marshes of the Northumberland Strait, Nova Scotia, Canada
Allen Beck, Clean Foundation

10 Species, 10 Years Later: A look at Gulf Restoration after the Deepwater Horizon
Jessica Bibza, National Wildlife Federation

50 Years of Conservation at the Virginia Coast Reserve: Local Lessons, Global Impact
Jill Bieri, The Nature Conservancy

Real-time Coastal Modeling of Total Water Level-Part 2: Mapping Storm Tide Pathways
Mark Borrelli, 100 Morrissey Blvd

Planning for resilience: marsh restoration siting and design in Currituck Sound, North Carolina
Cat Bowler, Audubon North Carolina

Modeling the Potential Impacts of Climate Change on the Hydrology of Forested Headwater Wetlands in the Coastal Plain of VA
Pamela Braff, NOAA

A Flood Adaptation Hierarchy for Coastal Management
ALISON BRANCO, The Nature Conservancy New York

The Solution to This Pollution is Bioswales - Greater New Haven's Innovative Approach to CSO Abatement
Douglas Brisee, Fuss & O'Neill, Inc.
So Much Data, So Little Time
Tracy Brown, *Save the Sound*

**STABILIZING SHORELINES ON FLORIDA'S NATURE COAST: FOR MANATEES, HOPE SPRINGS ETERNAL**
Michael Burton, *Stantec Consulting Services Inc.*

**Engage Diverse Groups of Volunteers to Support a Multitude of Organizational Goals**
Rachelle Cardona, *Save The Bay*

**Opportunities and Criteria for Restoration of Pocket Estuaries in Puget Sound**
Jessica Cote, *Blue Coast Engineering PS IncLLC*

**Environmental DNA (eDNA) facilitates biological monitoring in a Gulf of Maine estuary**
Laura Crane, *Wells National Estuarine Research Reserve*

**Eastham's Integrated Approach to Nutrient Management - Initial Implementation Results and Next Steps**
Jane Crowley, *Town of Eastham*

**Reduction of the Gulf of Mexico Hypoxic Zone - Status report and prospects for success**
Doug Daigle, *Lower Mississippi River Sub-basin Committee*

**Removing barriers to an adaptable Louisiana coast**
Christopher Dalbom, *Tulane Institute on Water Resources Law & Policy*

**Living Laboratory in the Three Bays Watershed**
Casey Dannhauser, *Barnstable Clean Water Coalition*

**Real-time Coastal Modeling of Total Water Level-Part 1: Gridded Flooding Forecasts**
Joseph DelliCarpini, *NOAA/National Weather Service*

**Population increases following the creation of hard clam spawner sanctuaries in Shinnecock Bay, NY**
Michael Doall, *Stony Brook University, School of Marine & Atmospherice Sciences*

**Integrating Ecosystem Services Functions and Values into Land-Use Decision Making in the Narragansett Bay Watershed**
Paige Dolci, *Mass Audubon*

**Reducing Bacteria to Keep Beaches Open Using Porous Pavement in Provincetown, MA**
Marc Drainville, *GHD*

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Amanda Guthrie, Virginia Institute of Marine Science

Living with the Bay Coastal Marsh Restoration Project
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The evolving scientific foundation for regulation of dissolved oxygen in coastal marine ecosystems
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Coastal Ocean Acidification: Challenges and Opportunities to Estuaries and Their Restoration
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Becca Hatchell, Florida Fish and Wildlife Conservation Commission (FWC)

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Lisa Havel, Atlantic Coastal Fish Habitat Partnership

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Nicole Iadevaia, Coastal & Heartland National Estuary Partnership

Florida's Living Shorelines Training Program for Marine Contractors
Fara Ilami, Florida Fish and Wildlife Conservation Commission

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Weixia (Way-Sha) Jin, Moffatt & Nichol

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Trevor Mattera, *Piscataqua Region Estuaries Partnership*

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Nathalie Morison, *New Hampshire Department of Environmental Services Coastal Program*

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Coastal Zone Soil Survey - An Improved Tool for Coastal Planning
Maggie Payne, USDA NRCS

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Sabrina Pereira, New Jersey Department of Environmental Protection

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Amanda Poskaitis, National Wildlife Federation

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A New Approach to Coastal Watershed Habitat Master Planning
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Building Climate Resilience on Cape Cod
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The Community Playbook for Clean Water: Activities to Achieve and Sustain Holistic Nutrient Management
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Xiao Shen, Environmental Protection Agency

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Tracking climate resilience to inform coastal restoration decisions in Chesapeake Bay through multidisciplinary indicators
Breck Sullivan, Chesapeake Bay Program

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Tam Tran, Freese and Nichols, Inc.

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Nurdles are invading our beaches: abundance and distribution of plastic pellets across the U.S.
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NOAA Fisheries Roles and Responsibilities for Offshore Wind Development
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Good for now, but as good as gone: what climate change could mean for seagrass recovery in a temperate estuary
James Vasslides, Barnegat Bay Partnership

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Long-Term Monitoring of Water Quality Improvement Following Wastewater Treatment Nutrient Reductions
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Salvador Dali to the design lab! Restoring a tidal herring run while filling the heart of a beloved veterans memorial lagoon.
Nils Wiberg, Fuss & O’Neill, Inc.

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Dawn York, Moffatt and Nichol

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Impacts of microplastics on fish communities in the Connecticut Quinnipiac River and New Haven Harbor
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Vegetative community and health assessment of a constructed Juncus-dominated salt marsh in the northern Gulf of Mexico
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Esther Gomes, CBCL Limited

Drones and Dykelands: How Drones are Informing the Managed Realignment of Dyke Infrastructure and the Restoration of Tidal We
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Tidal Marsh Recovery After Thin-Layer Placement Restoration in New England
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Preliminary results from the benthic habitat mapping study of northern coasts of Cyprus according to EUNIS
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A vulnerability assessment for climate effects on the habitats of living marine resources in the Northeast U.S.
Michael Johnson, National Oceanic and Atmospheric Administration

North of Boston's Blue Economy & Coastal Resilience Opportunities
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Permitting challenges for use of soft shoreline solutions in Puget Sound
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Explore the Salish Sea Curriculum, raising the next gen. with estuary-based science
Mira Lutz Castle, SeaDoc Society

Leveraging Transportation Budgets to Implement Tidal Restoration at Road Stream Crossings in NY
Nicole Maher, The Nature Conservancy

Key Policy Recommendations from EESI's new report on coastal climate adaptation in the United States
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Monitoring Nekton Biodiversity at the Delaware National Estuarine Research Reserve
Michael Mensinger, Delaware Department of Natural Resources & Environmental Control/Delaware National Estuarine Research Reserve

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Christopher Moore, East Carolina University

Impacts of sea level rise on tidal marsh habitats and carbon sequestration in the Pacific Northwest
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Cultivating Oysters and Volunteers - How to Develop Better Volunteers
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Optimizing for Tide Gate Replacement: A Tool for Coastal Working Lands
Jason Nuckols, The Nature Conservancy

Where can I find great photos?
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RIDOT's Approach for Optimizing Stormwater Treatment
Mark Pereira, Fuss & O'Neill

A Rapid Assessment of Tidal Wetlands in the Maryland Coastal Bays' Watershed
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Spatial Modeling of Blue Carbon Stocks in Southwest Florida Coastal Wetlands
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Assessing coastal carbon variability in two Delaware tidal marshes
Kari St. Laurent, Delaware Department of Natural Resources and Environmental Control

Determining the fate of land-derived nitrogen in salt marshes using a large-scale 15N isotope tracer experiment
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Biological Monitoring of Distinct Habitats Within the Great Bay Estuary with environmental DNA
Devin Thomas, University of New Hampshire

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Alison Verkade, NOAA-NMFS-GARFO-Habitat

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Understanding the Response of Estuarine Wetlands to Anthropogenic Disturbances at the Delaware NERR
Christina Whiteman, Delaware Department of Natural Resources and Environmental Control - DNERR

Using Ground Based and Remote Sensing Data to assess the Vegetative Recovery of the Prime Hook NWR Ecosystem Restoration
Bartholomew Wilson, Coastal Delaware Wildlife Refuge Complex

Development of a Sediment Management Plan for Coastal Texas
Ben Wilson, Texas General Land Office