2018 NERRS Science Collaborative Project Workshop

Participants, affiliations and project titles, organized by themes

(List as of November 14, 2018)

Living shorelines

Christine Angelini	University of Florida	Re-engineering living shorelines to halt erosion and restore coastal habitat functioning in high-energy environments
Nikki Dix	Guana Tolomato Matanzas NERR	
Kaitlyn Dietz	Guana Tolomato Matanzas NERR	
Denise Sanger	ACE Basin NERR	Evaluating living shorelines to inform regulatory decision-making in South Carolina
Peter Kingsley-Smith	South Carolina Department of Natural Resources	
Stuart Findlay	Cary Institute of Ecosystem Studies	Assessing ecological and physical performance of sustainable shoreline structures
Eric Sparks	Mississippi State University & Mississippi-Alabama Sea Grant	Maximizing the effectiveness and sustainability of coastal restoration
Just Cebrian	Dauphin Island Sea Lab & University of South Alabama	

Marsh resilience

Kenny Raposa	Narragansett Bay NERR	Thin-layer sediment placement: Evaluating an adaptation strategy to enhance coastal marsh resilience across the NERRS
Jennifer West	Narragansett Bay NERR	
Kimberly Cressman	Grand Bay NERR	Is marsh surface tracking sea level change? Developing tools and visualizations for NERRS Sentinel Site data
Suzanne Shull	Padilla Bay NERR	
David Burdick	Jackson Estuarine Laboratory, University of New Hampshire	Synthesizing NERR Sentinel Site data to improve coastal wetland management across New England
Peter Sheng	University of Florida	Assessing and Enhancing the Value of Coastal Marshes for Protecting Coastal Communities from Storm Surge and Flooding in a Changing Climate

Climate adaptation

Danielle Boudreau	Tijuana River NERR	Facilitation tools, techniques, and tactics: Advancing local adaptation and evaluation dialogues throughout the NERRS
Kristen Goodrich	Tijuana River NERR	
Lisa Auermuller	Jacques Cousteau NERR	Enhancing coastal resilience decision-support tools to reflect latest local, applied science
Jeanne Herb	Rutgers Bloustein School of Planning and Public Policy	
Stuart Siegel	San Francisco Bay NERR	Bringing together end users and stakeholders to identify and evaluate sea level rise adaptation options to solve road flooding in China Camp State Park
Michael Vasey	San Francisco Bay NERR	
Aimee Good	San Francisco Bay NERR	
Bennett Brooks	Consensus Building Institute	Catalyzing a deeper understanding of the effects of storm surge barriers on the Hudson River estuary

Ecosystem services

Jude Apple	Padilla Bay NERR	Enhancing coastal zone policy, management, and research through end user-driven quantification and public dissemination of carbon stocks data for Pacific Northwest tidal wetlands
Kevin Kroeger	USGS	Expanding blue carbon implementation: Increasing GHG model application in tidally restricted and restored New England salt marshes
Tonna-Marie Surgeon-Rogers	Waquoit Bay NERR	
Steve Emmett-Mattox	Silvestrum Climate Associates LLC	Feasibility planning for Pacific Northwest blue carbon finance projects
Sara Mason	Duke University	Exploring applications of ecosystem service conceptual models for coastal habitats
Brandon Puckett	North Carolina NERR	

Water quality and sediment dynamics

David Ralston	Woods Hole Oceanographic Institute	Quantifying effects of dam removal on sediment transport and wetland sustainability in the Hudson River estuary
Rachel Noble	UNC Chapel Hill Institute of Marine Sciences	A multi-faceted collaborative approach toward managing stormwater impacts on NC reserves
Bass Dye	Florida Gulf Coast University	Improved understanding of sediment dynamics and direct management applications for the South Slough NERR and the greater Coos Bay Estuary
Emily Kuzmick	Old Woman Creek NERR	How much can coastal wetlands contribute to the reduction of nutrient loading to Lake Erie?
Song Qian	University of Toledo	Quantifying nutrient retention by coastal wetlands for guiding restoration and management

Marsh ecology

Alison Watts	University of New Hampshire	New technology for old problems - Using DNA methods to monitor invasive species and biodiversity in estuarine systems
W. Kelley Thomas	Hubbard Center for Genome Studies & University of New Hampshire	
Richard Lathrop	Rutgers University	Investigating the interconnectedness of climate change, nuisance mosquito populations, and long-term resilience of coastal salt marsh systems
Megan Tyrrell	Waquoit Bay NERR	Evaluating the impact of hydrologic alterations on salt marsh sustainability in a changing climate
Brita Jessen	Rookery Bay NERR	Mapping terrestrial and benthic habitat change to address mangrove and seagrass migration and die-off in response to recent and long-term environmental drivers
Matthew McCarthy	University of South Florida	

Oyster management

Elizabeth Darrow	University of North Carolina Wilmington	Evaluation of Ecosystem Services Associated with Shellfish Culture Operations in Coastal Regions Served by the National Estuarine Research Reserve
Daniel Rogers	Stonehill College	Evaluating the effectiveness of different oyster aquaculture strategies for nitrogen loading remediation to inform end user decisions to restore water quality
Virginia Edgcomb	Woods Hole Oceanographic Institute	
Kerstin Wasson	Elkhorn Slough NERR	Building a coastwide Olympia oyster network to improve restoration outcomes and enhance community engagement
April Ridlon	Elkhorn Slough NERR	
Wilson White	Oregon State University	Stakeholder-driven modeling investigation of factors affecting oyster population sustainability

Conservation planning

Cory Riley	Great Bay NERR	Exploring the trends, the science, and the options of buffer management in the Great Bay Watershed
Syverine Bentz	Kachemak Bay NERR	Collaborative tool development for promoting resilient groundwater resources and holistic watershed management at the Kachemak Bay NERR
Mark Rains	University of South Florida	
Jenni Schmitt	South Slough NERR	An estuarine and shoreland use and zoning integrated assessment for the Coos Estuary