Bringing Wetlands to Market: Nitrogen & Coastal Blue Carbon

WAQUOIT BAY NATIONAL ESTUARINE RESEARCH RESERVE

Capitalizing on Coastal Blue Carbon

The Conference Center at Massasoit Community College – *Brockton, MA | May 12-13, 2015*

conference AGENDA

COASTAL BLUE CARBON:

New Guidance & Tools for Coastal Managers & Policymakers

Results of the Bringing Wetlands to Market Project and Related Research and Implications for Wetlands Conservation and Restoration in New England and Beyond

This conference is organized by the Waquoit Bay National Estuarine Research Reserve, MA Department of Conservation and Recreation, the Waquoit Bay Reserve Foundation, and the Bringing Wetlands to Market: Nitrogen and Coastal Blue Carbon Project partners.

CONFERENCE LOCATION:
The Conference Center at Massasoit Community College
770 Crescent Street, Brockton MA 02302

DIRECTIONS & LODGING INFO:
http://www.massasoit.mass.edu/conference_center/

CONFERENCE QUESTIONS & AVAILABLE CONTINUING EDUCATION CREDITS:

Tonna-Marie Surgeon-Rogers
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TUESDAY, MAY 12, 2015 – (DAY ONE) *conference* AGENDA

8:00 – 9:00 am
Sign-In & Refreshments

8:30 – 9:00 am
Blue Carbon Primer *(optional)*

9:00 am
Welcome & Introductions

9:30 am – 12:30 pm
Session 1 & Session 2

12:30 – 1:30 pm
Lunch *(provided)*

1:30 – 5:00 pm
Session 3

5:00 – 6:30 pm
Reception & Poster Session

6:30 pm
Adjourn

SESSION 1: Why Blue Carbon Matters to New England

Keynote - Blue Carbon: A New Tool for the Coastal Manager and Policymaker's Toolkit – David Yoskowitz, Ph.D., Chief Economist, National Oceanic and Atmospheric Administration

Keynote - The State of Blue Carbon Science – Lisamarie Windham-Myers, Ph.D., Ecologist, U.S. Geological Survey

SESSION 2: Innovations in Blue Carbon Science: Findings from the Bringing Wetlands to Market Project

Bringing Wetlands to Market: Nitrogen and Coastal Blue Carbon – Bridging Science, Policy, and Management – Tonna-Marie Surgeon Rogers, Coastal Training Program Coordinator, Waquoit Bay National Estuarine Research Reserve

Building a Salt Marsh Greenhouse Gas Budget: Quantifying Emissions in Respose to Nitrogen Loading–Jianwu (Jim) Tang, Ph.D., Associate Scientist, Marine Biological Laboratory

Building a Salt Marsh Greenhouse Gas Budget: Quantifying the Role of Tidal Exchanges of Carbon and Greenhouse Gases – Kevin Kroeger, Ph.D., Scientist, U.S. Geological Survey, Woods Hole Coastal and Marine Science Center

Examining Relationships Between Greenhouse Gas Fluxes and Plant Zones– Serena Moseman-Valtierra, Ph.D., Assistant Professor, University of Rhode Island

SESSION 3: Blue Carbon Financing: Applications & Tools for Wetlands Conservation and Restoration

Introduction to Coastal Blue Carbon Markets and Carbon Finance – Steve Emmett-Mattox, Senior Director for Strategic Planning, Restore America's Estuaries

Bringing Blue Carbon to Market: An Introduction to the Tidal Wetland and Seagrass Restoration Methodology and Guidance Document – Steve Emmett-Mattox, Senior Director for Strategic Planning, Restore America's Estuaries and Steve Crooks, Ph.D., Climate Change Program Manager, ESA, Inc.

A Model to Help You Determine Your Wetland's Carbon Budget – Omar Abdul Aziz, Ph.D., Assistant Professor, Florida International University

Blue Carbon Economics of Salt Marsh Restoration: Herring River Restoration Project Case Study – Tom Walker, Consulting Economist, Manomet Center for Conservation Sciences and Tim Smith, Restoration Ecologist, Cape Cod National Seashore

Considerations in Planning a Blue Carbon Project– Steve Crooks, Ph.D., Climate Change Program Manager, ESA, Inc.

Ask the Presenters: Lingering Blue Carbon Questions– Bringing Wetlands to Market Project Team

RECEPTION & POSTER SESSION:

Learn about carbon cycling and nitrogen research happening around the country

WEDNESDAY, MAY 13, 2015 – (DAY TWO) *conference* AGENDA

8:00 – 9:00 am
Sign-In & Refreshments

9:00 am
Welcome & Introductions

9:15 am – 12:00 pm
Session 4

12:00– 1:00 pm
Lunch *(provided)*

1:00-2:00 pm
Session 5

2:00-3:00 pm
Session 6

3:15– 4:15 pm
Session 7

4:30 pm
Adjourn

SESSION 4: Blue Carbon Application Issues Focus: Climate, Sea Level Rise, and Nitrogen

Salt Marsh Response to Sea Level Rise and Implications for Blue Carbon – Meagan Eagle Gonneea, Ph.D., Postdoctoral Fellow, U.S. Geological Survey, Woods Hole Coastal and Marine Science Center

Climate and Coastal Resilience: National Policy Opportunities for Coastal Blue Carbon – Ariana Sutton-Grier, Ph.D., Assistant Research Scientist, Earth System Science Interdisciplinary Center, University of Maryland, and Ecosystem Science Adviser, National Ocean Service, National Oceanic and Atmospheric Administration

Nitrogen Impacts on Marshes: Field and Greenhouse Findings and Implications for Management – Cathleen Wigand,Ph.D., Research Ecologist, U.S. Environmental Protection Agency

Elevated CO_2 and Nitrogen Impacts on Native and Introduced Wetland Plan Communities– Thomas Mozdzer, Ph.D., Assistant Professor, Bryn Mawr College

Nitrogen Impacts on Carbon Storage in Wetlands – Jianwu (Jim) Tang, Ph.D., Associate Scientist, Marine Biological Laboratory, Kevin Kroeger, Ph.D., Scientist, U.S. Geological Survey, Serena Moseman-Valtierra, Ph.D., Assistant Professor, University of Rhode Island; Meagan Eagle Gonneea, Ph.D., Postdoctoral Fellow, U.S. Geological Survey, Woods Hole Coastal and Marine Science Center

SESSION 5: Hands-On Learning (Mini-Workshops)

Select one

- Modeling Greenhouse Gas Fluxes in Wetlands
- Innovations in Science and Field Work from the BWM Project and Additional Science Questions
- Blue Carbon Projects - Examples of Policy and Projects from Around the World
- Communicating and Educating About Blue Carbon

SESSION 6: Hands-On Learning (Mini-Workshops)

Select one

- Applying the Tidal Wetland and Seagrass Restoration Methodology
- Understanding the Economics: Application of the Economic Analysis
- Innovations in Science and Field Work from the BWM Project and Additional Science Questions (repeat)
- Delving Deeper into the "BWM: STEM Curriculum Linking Wetlands and Climate Change"

SESSION 7: What's Next for Blue Carbon in New England

Panel Discussion: – Jon Kachmar, Southeastern Massachusetts Program Director, The Nature Conservancy; Aisling O'Shea, Manager Global Warming Solutions, Massachusetts Executive Office of Energy and Environmental Affairs; Tim Purinton , Director, Massachussetts Division of Ecological Restoration; Kristin Wilson, Ph.D., Research Coordinator, Wells National Estuarine Research Reserve; Moderator: Steve Crooks, Ph.D., Climate Change Program Manager, ESA, Inc.;