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Conservation

A Local NERR Perspective

Hudson River NERR program

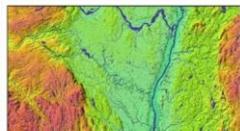
Reflections on the benefits of being a NERR

April 12, 2016

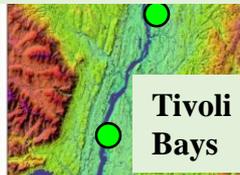


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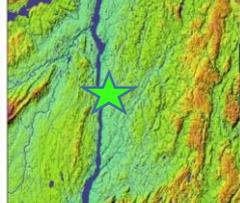
Hudson River National Estuarine Research Reserve



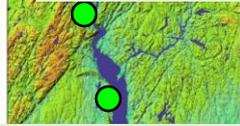
Stockport Flats



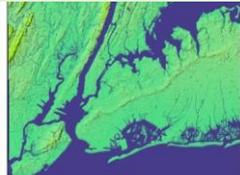
Tivoli Bays



Iona Island



Piermont Marsh



Stockport Flats



Tivoli Bays



Iona Island



Piermont Marsh

Norrie Point Environmental Center



Research and Monitoring

System-Wide Monitoring Program (SWMP)

Estuary-wide habitat mapping

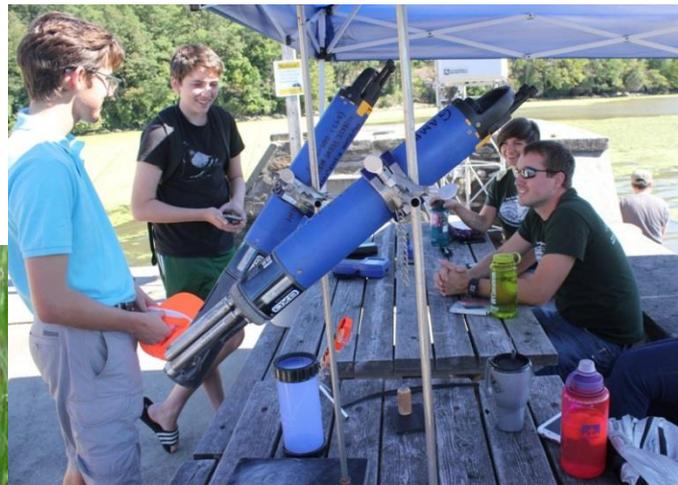
Sustainable Shorelines Project

Research facilitation

Linked to training & education programs

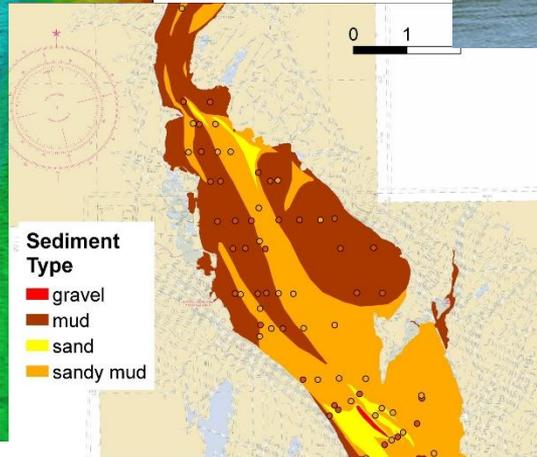
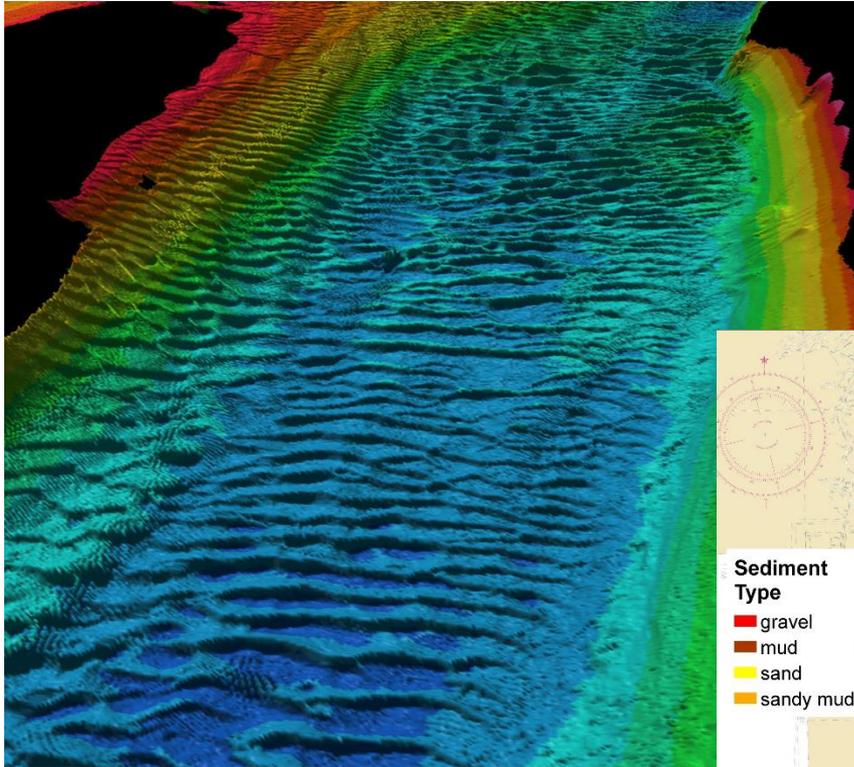


System-Wide Monitoring



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River Bottom Mapping



“The benthic mapping program is essential to our efforts to identify habitat for endangered Atlantic and shortnose sturgeon.”

-- DEC Fisheries Program Manager



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Hudson River Sustainable Shorelines Project

Shoreline treatment options & tradeoffs

Ecology of shorelines

Physical forces affecting shorelines

Demonstration site network

Collaboration with other NERRS and partners in NYS to change policy & practice.



“This project has made me a better engineer.” President, Blueshore Engineering

“Your project was the inspiration for my work in CT.” – Adam Whelchel, TNC CT.



Role of Habitats in Community Resilience



Goal: Manage for climate resilience for both the marsh & the community

Education and Training

Hudson River Estuary Training Program

School programs

Public programs

Teachers on the Estuary

Citizen Science Eel Project



Estuary Training Program



School Programs



Public Programs



Teachers on the Estuary



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Citizen Science: Eel Monitoring



Resource Stewardship

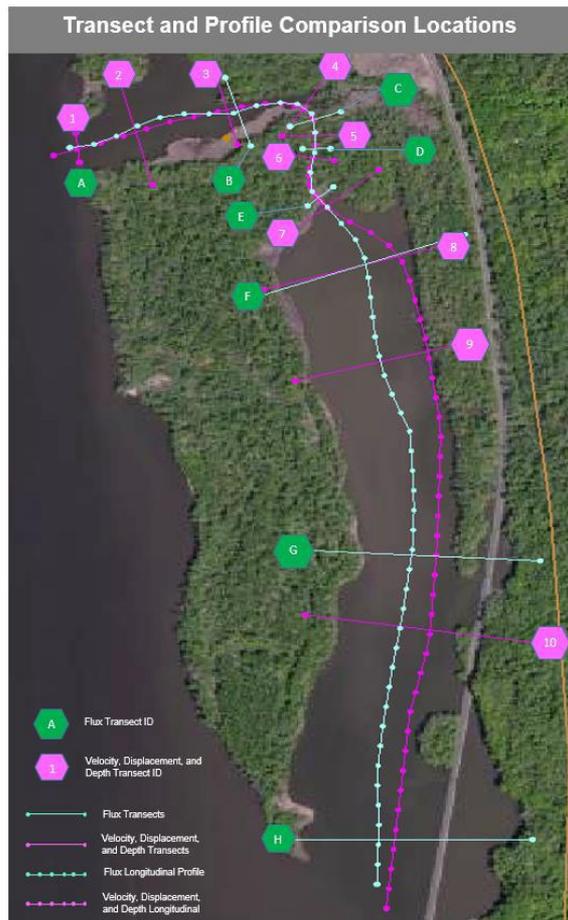
Habitat restoration

Invasive species management

Land acquisition to enable wetland migration



Habitat Restoration



Invasive Species Management





Future Tidal Wetland

Current Tidal Wetland

Approach

- **Collaborative** – Engage key audiences and intended users early on to shape project approach and research
- **Interdisciplinary** – many disciplines, including social science
- **Inclusive** – growing network of partners
- **Region-specific** – focus on understanding regional physical forces, ecological conditions, and human setting
- **Nationally relevant and linked** – helps achieve national goals and creates links to other NERRs



Benefits of Being a NERR

A highly innovative & collaborative network with shared mission; smart, supportive NOAA partners; extended networks

- Access to technical support & expertise
- Funding and in-kind services from NOAA
- Partners to advance needed initiatives
- Models programs to emulate
- A remarkable organizational culture
- National Estuarine Research Reserve Association



Thank you.

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