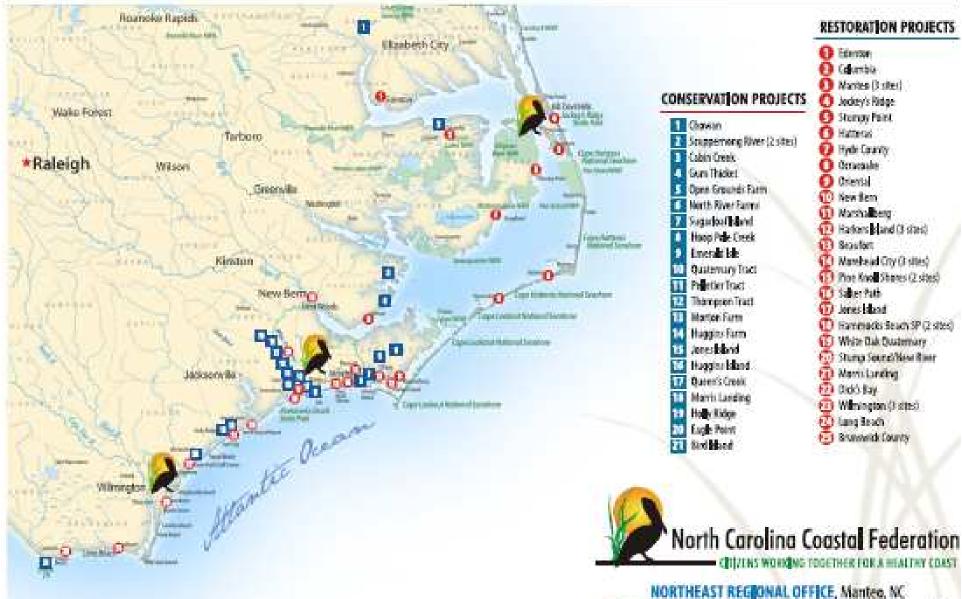




Working Together for a Healthy Coast

Erin Fleckenstein, Coastal Scientist



CENTRAL REGIONAL OFFICE & HEADQUARTERS, Ocean, WC
SOUTHEAST REGIONAL OFFICE, Wilmington, NC

For more information visit www.nccoast.com/or call 252.393.8185

Our Programs *Education*





Our Programs *Advocacy*





Our Programs
Restoration





Oyster Benefits



Water Quality

Protect Shorelines

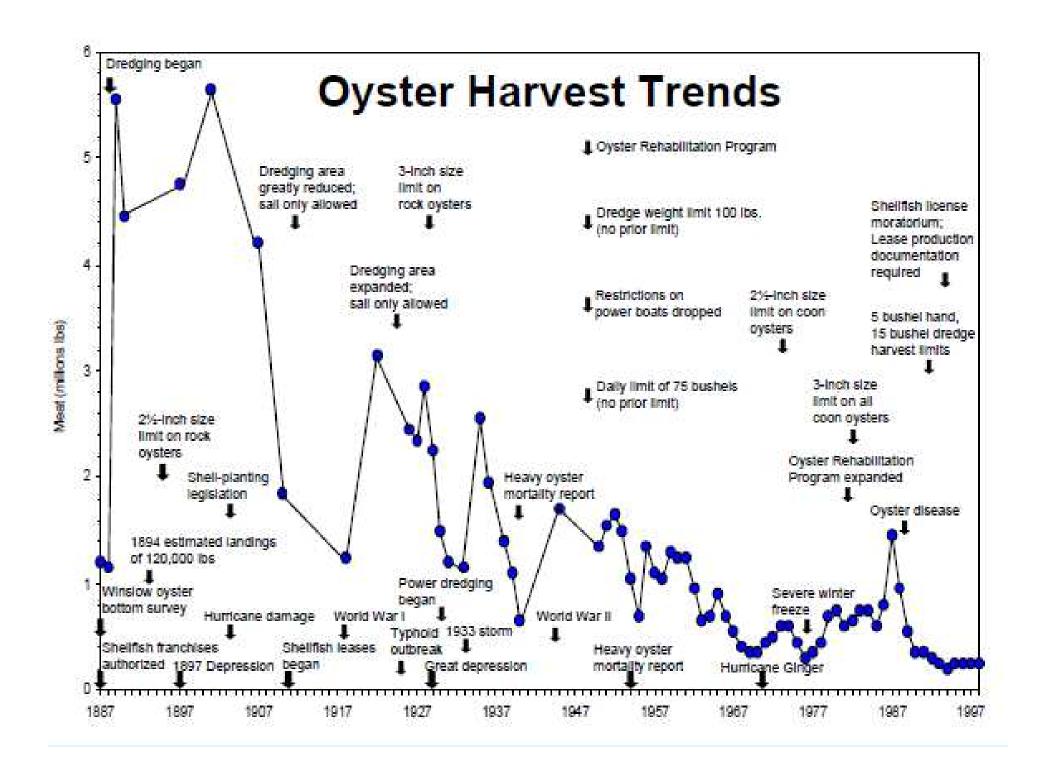


Economy and Culture



Habitat





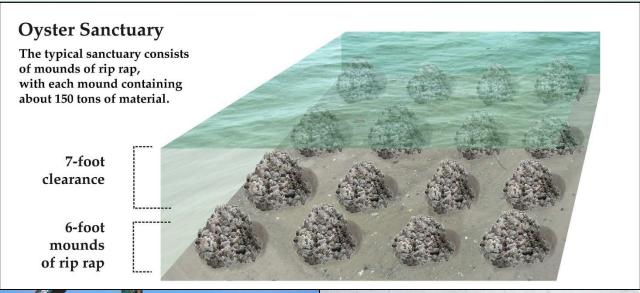
Oyster Cultch Plantings



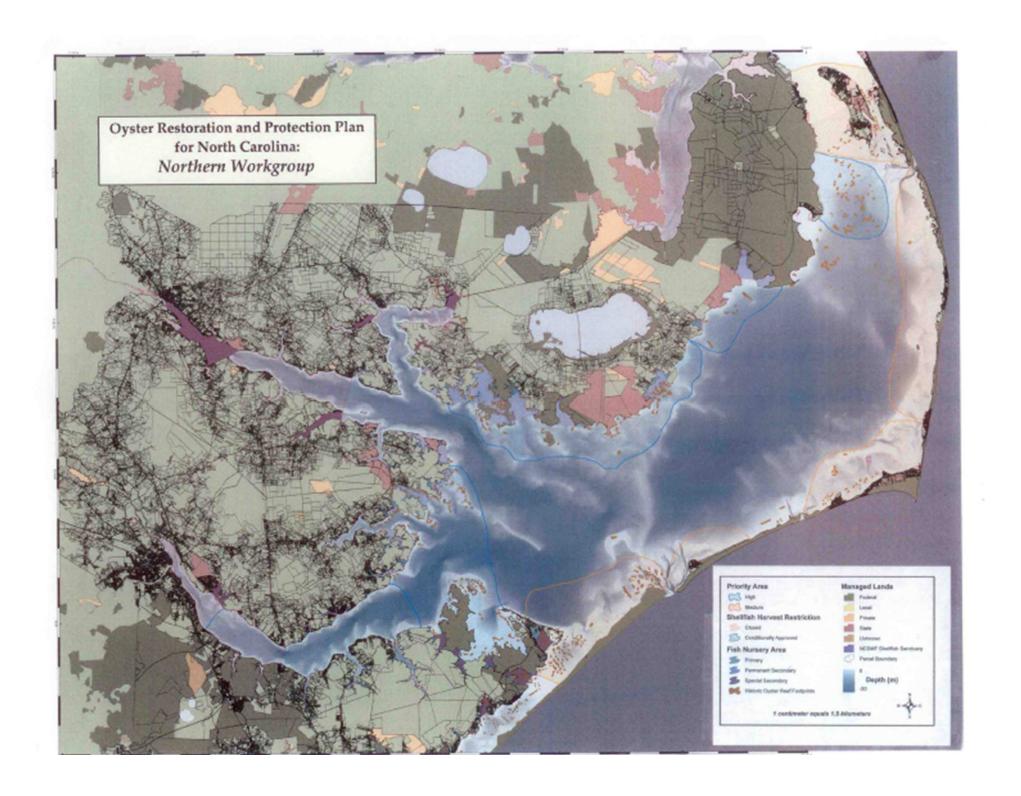




Oyster Sanctuaries







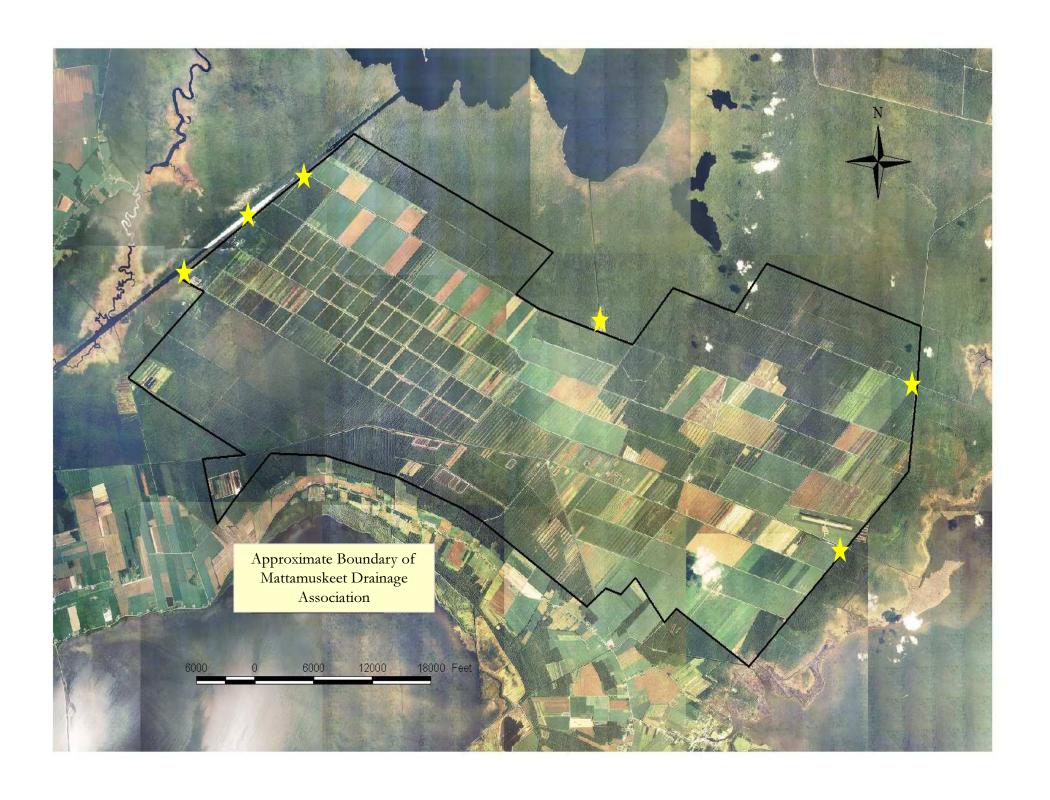






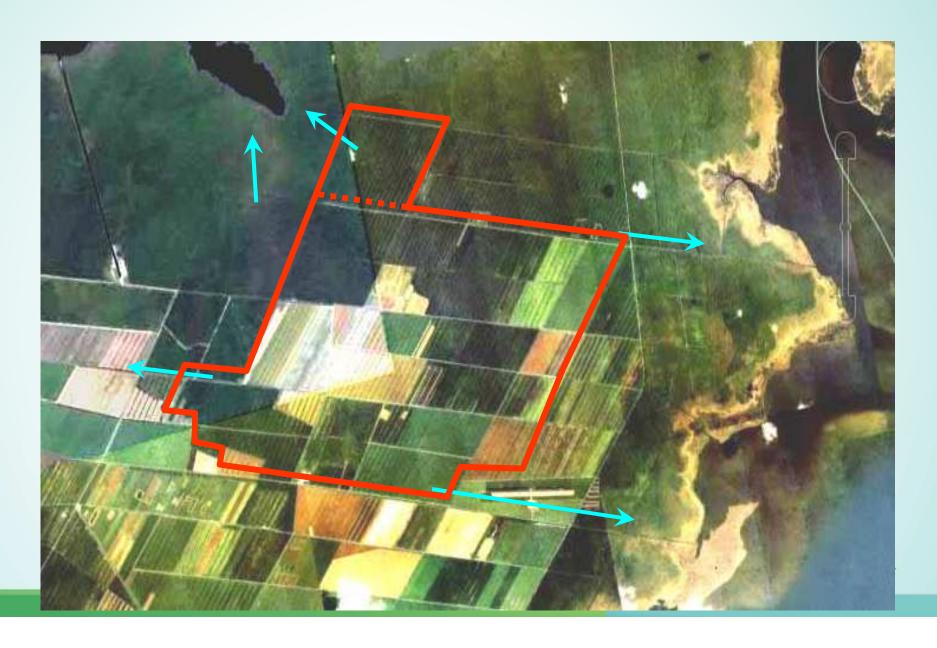








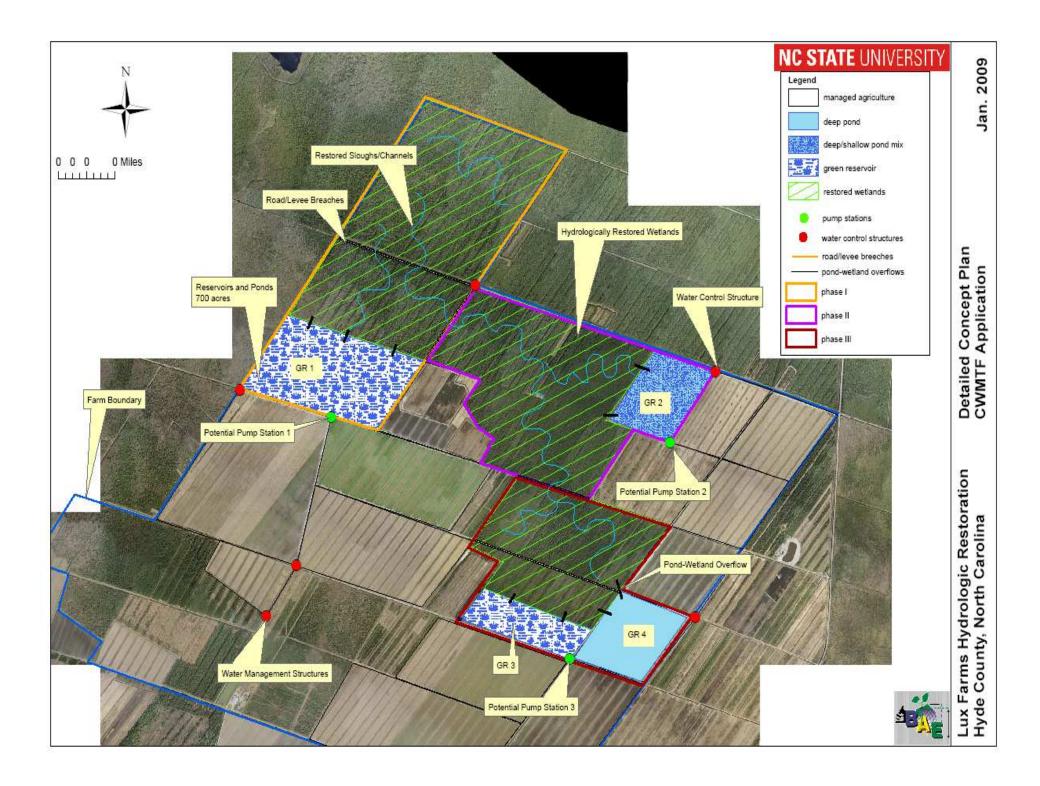
Farm boundaries and current flow patterns



Estimated Historic Drainage Area

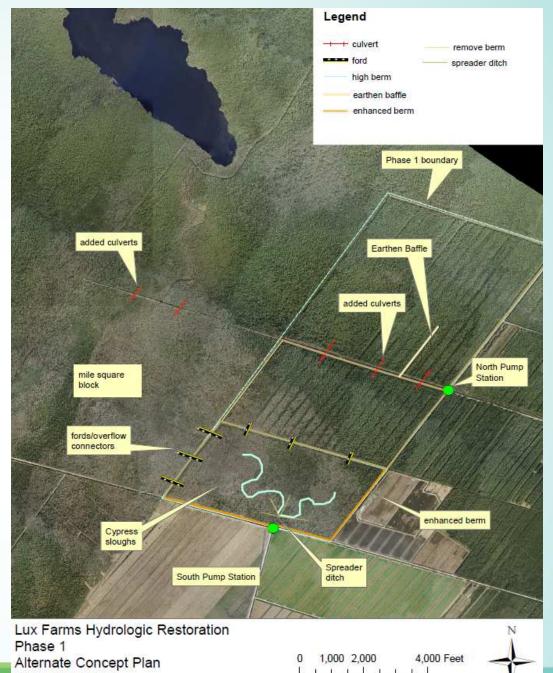
Historic Flow Directions





L1: Lux Phase 1

- 1,400 Acres
- Restoring Historic Sloughs and Flow **Patterns**
- Funded by CWMTF



November 2011



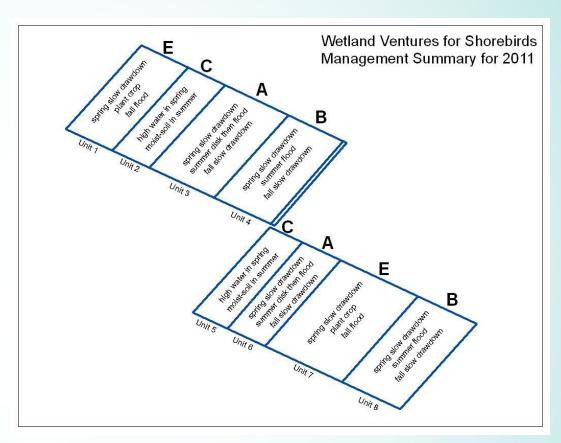


MV0: Shorebird Project

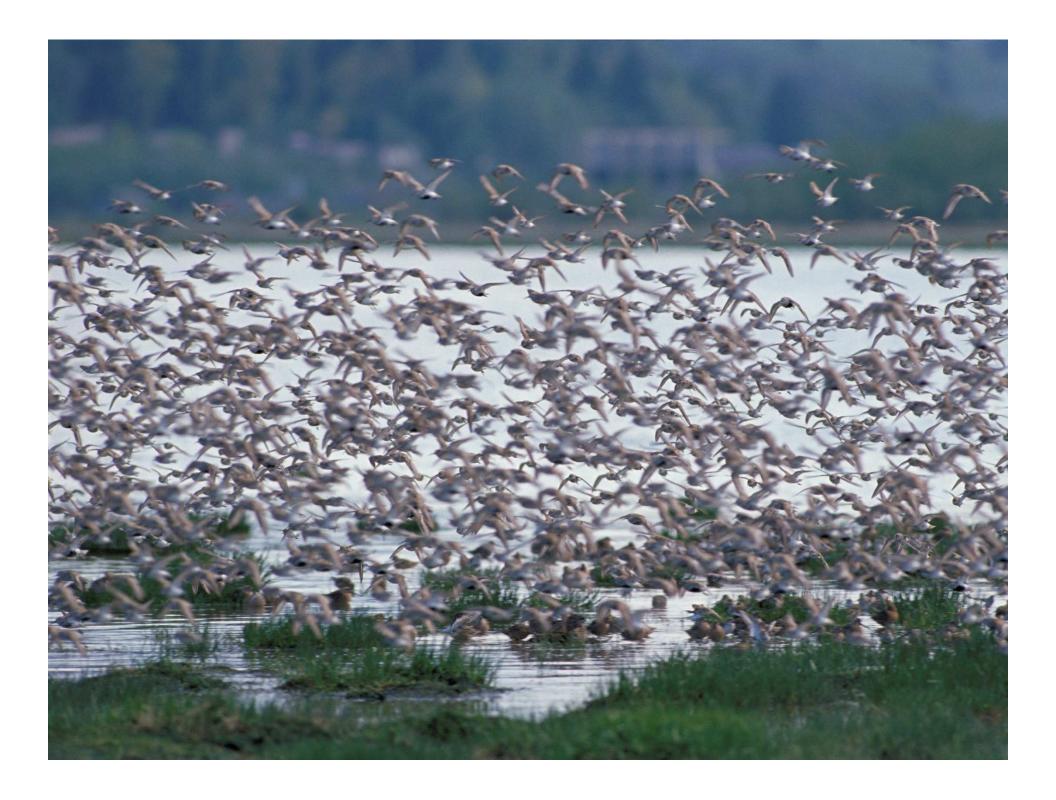
600 acres

 Shorebird Habitat Creation

 Funded by USFWS/APNEP and Implemented

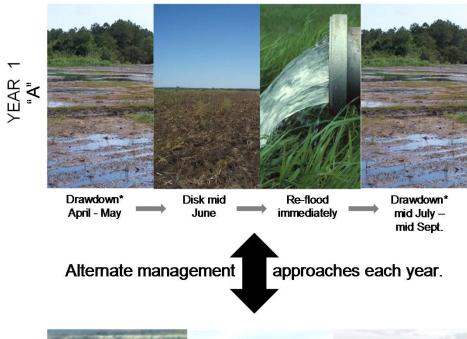


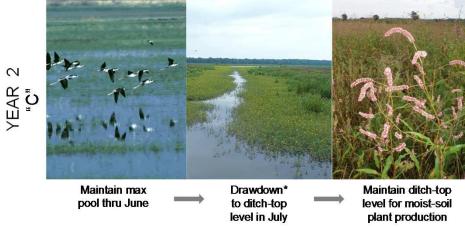




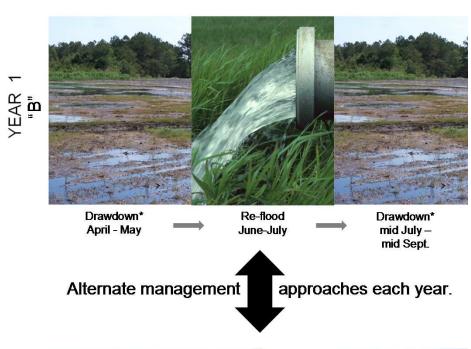


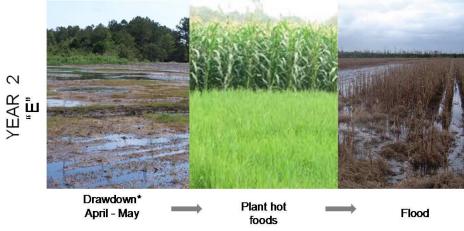






^{*} Drawdowns should be slow and gradual and can often be accomplished through evaporation/transpiration (i.e. not pulling any boards).





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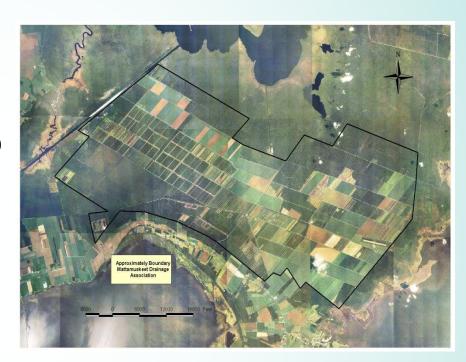
Next Steps- Drainage Association

Develop a Watershed
Restoration Plan for entire
Drainage Association

Convene a stakeholder group

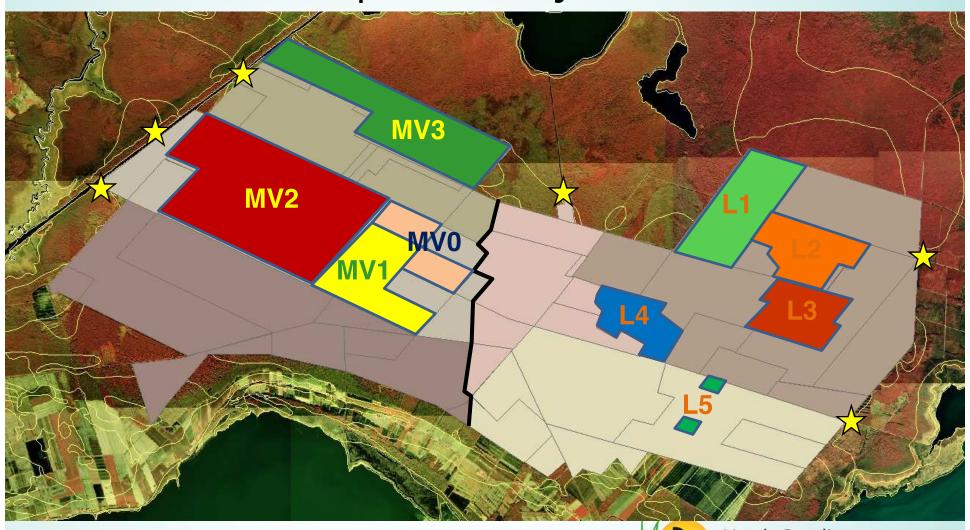
Identify and rank wetland restoration projects

Plan that meets needs/goals of the drainage association, NCCF, USFWS, EPA, NRCS and others





Proposed Projects











Next Steps- Oyster Restoration

Maintain Oyster Workgroup

Model Oyster Larvae
Transport and Settling

Develop a plan and rank future sanctuaries

Identify Funding for Plan Implementation





North Carolina has more than 320 miles of ocean beaches and 12,000 miles of shoreline around our coastal sounds, rivers and creeks making it one of the largest, most productive estuarine environments.



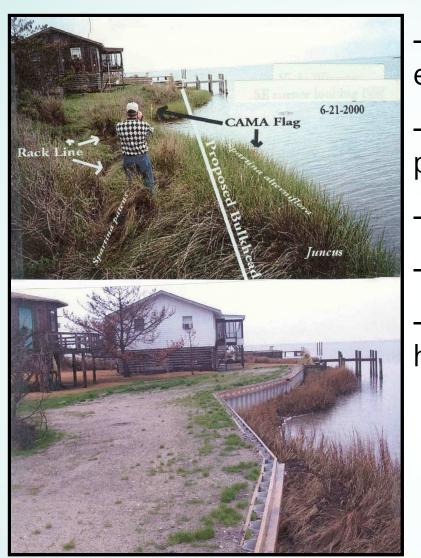


Traditional Methods of Erosion Control





Potential Effects of Bulkheads/Revetments



- -Wave reflection/increased erosion
- -Loss of water quality protection/improvements
- -Interruption of sediment budget
- -Loss of public trust lands
- -Loss of intertidal/riparian
 habitat_____





Functions and Values of the Living Shoreline



Shoreline Stabilization

Water Quality



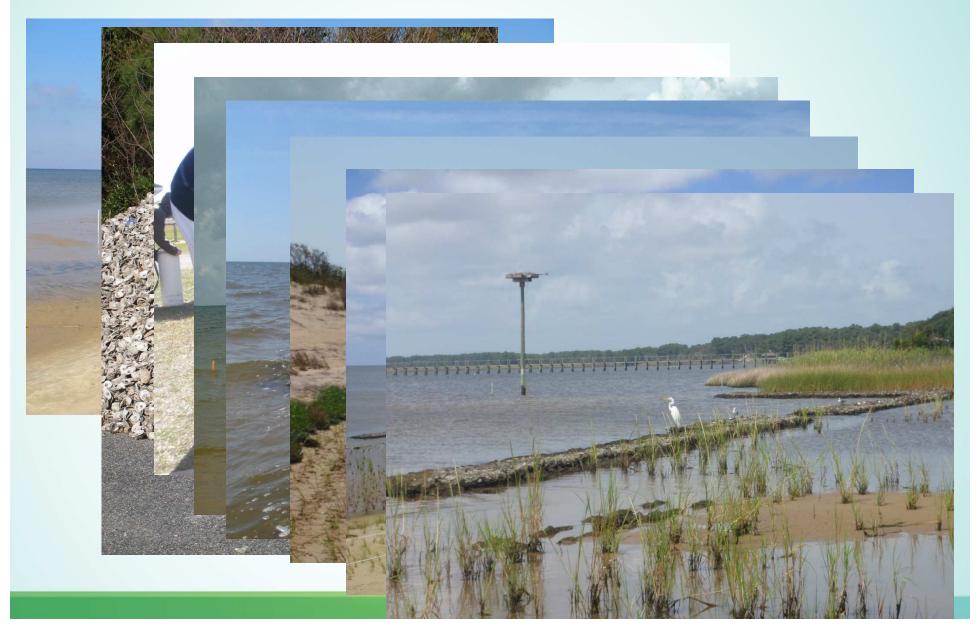


Productivity

Habitat Enhancement

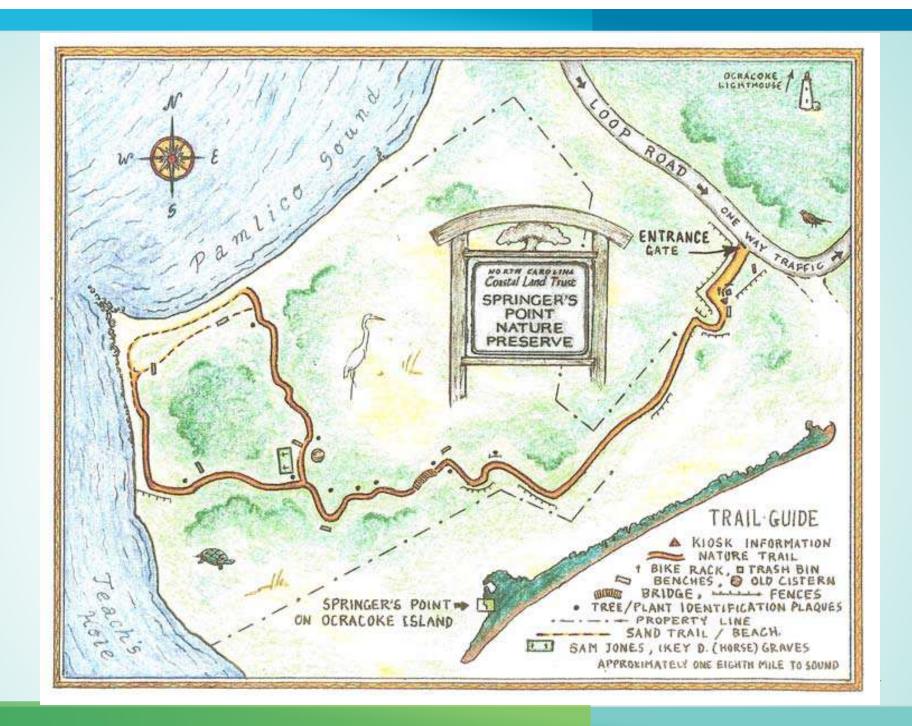


Jockey's Ridge State Park



Linking Education and Restoration





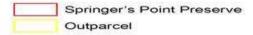
Shoreline Concerns & Partnership Opportunities



Site Assessment



Springer's Point Preserve Hyde County, NC Aerial 2010







Moving the Trail









Volunteers construct a sill at Jockey's Ridge State Park

Engaging Local Fishermen





Working with the existing structure

















NCCAT









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