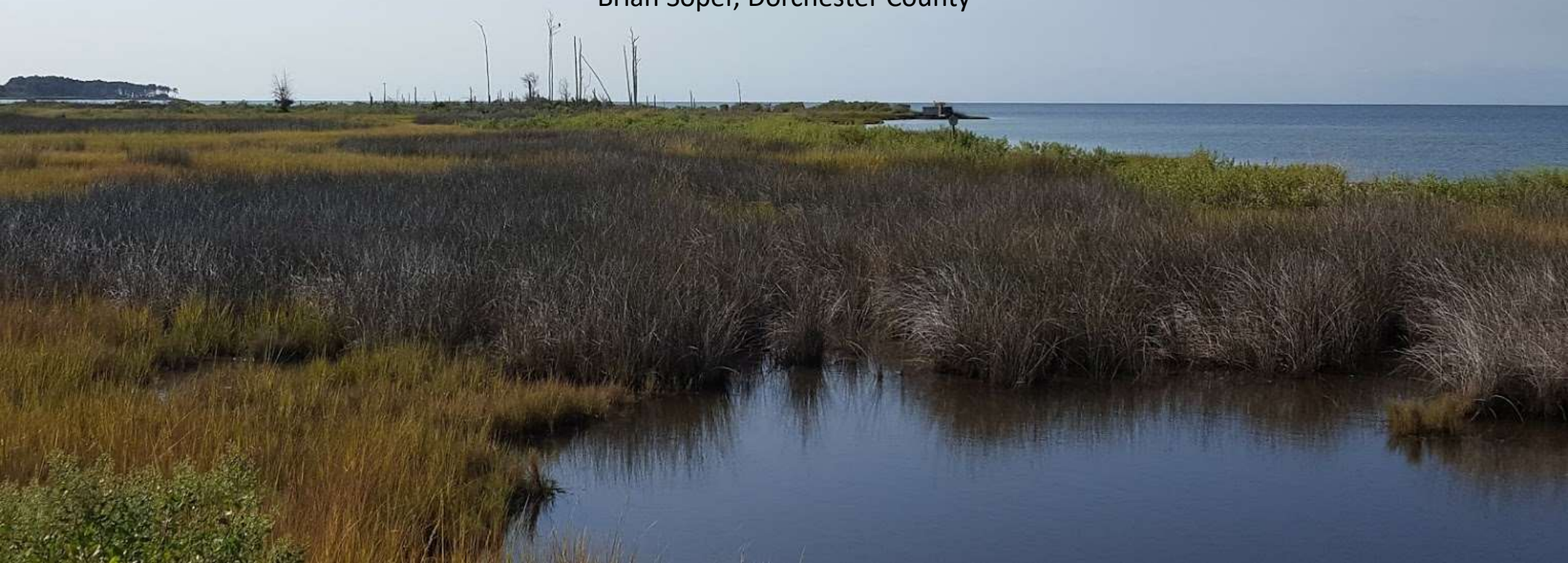


# Buffer Planting Adaption in the Face of Environmental Change

Brian Soper, Dorchester County



# Planting Challenges


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- Changing Landscape
  - Sea Level Rise
  - Erosion
  - Salt Water Intrusion
- Extreme Weather Conditions
- Plant Material Availability
- Cost of Implementation
- Expanded Buffer and Wetlands



# Objectives

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- Meeting the goals and intent of the Critical Area Law
  - Property owner buy-in
  - Plant material survival
  - Overlap with other County initiatives (Floodplain, Stormwater Management, Erosion)
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# COMAR 27.01.09.01-2

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M. A local jurisdiction may authorize an applicant to increase the percentage of large shrubs, small shrubs, or herbaceous perennials in a buffer management plan if:

(1) The buffer has existing canopy coverage of at least 50 percent; or

(2) Site constraints that preclude canopy planting, including severely eroding slopes, salt water intrusion, predominately sandy soils, or unconsolidated fill

**THIS LANGUAGE IS YOUR FRIEND!**



# Site Conditions to Consider

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- Existing Vegetation
  - Don't re-invent the wheel
- Condition of Shoreline Erosion Control Features
- Use of the property and surrounding properties
- Stormwater Management and Flooding
- Irrigation available?
  - Rural vs. Urban



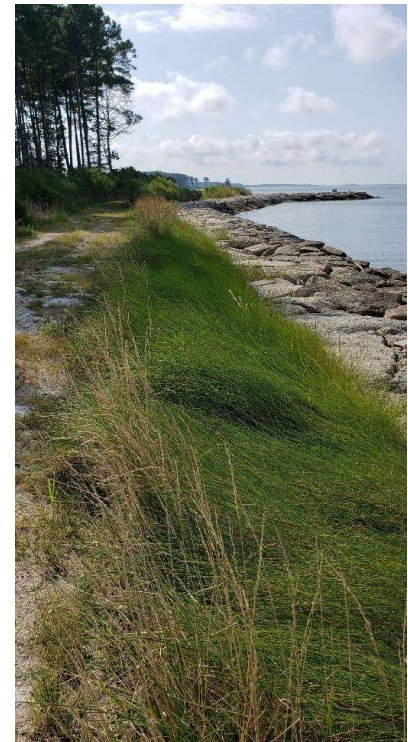
# Taylor's Island



# Taylor's Island

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- Expanded Buffer and Non-tidal Wetlands
- Fully Established Forest
- Grass Plugs
- Vegetative strips behind revetments to reduce the risk of failure



# Choptank River





# Choptank River

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Existing Canopy within 100' Buffer

Less impact from wave action

- No Shoreline Erosion Control


Encouraging the planting or growth of existing habitat

- Pollinator gardens
- Reducing mown areas
- Shoreline plantings above mean high water to reduce erosion and capture debris when flooding recedes



# Meeting Our Objectives

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- Salt tolerate plants
  - Vegetative strips behind revetments to reduce the risk of failure
  - Encouraging the planting or growth of existing habitat
  - Pollinator gardens
  - Reducing mown areas
  - Shoreline plantings above mean high water to reduce erosion and capture debris when flooding recedes
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# Meeting Our Objectives

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- Shrubs and Grasses can be less expensive, easier to install and maintain than trees
- Landscape Plans designed to capture stormwater and flooding
  - Divert around structures and access roads



# Questions?

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