

Welcome to Marshes for Tomorrow

Community Meeting

Berlin Library

Berlin

January 25th 2024



What are we doing today?

Welcome, introductions, and housekeeping

lce breaker(s)

Project presentation from Audubon

Mapping exercise

Whole group discussion

Close out



Introductions

- Team: Give name, organization affiliation
- Note taker: Give name, organization affiliation & role during meeting
- Public: Name and where you live



Housekeeping

- Please get up and move around
- Facilities Thanks to library staff
- Food
- Listen and speak up
- Please complete survey







Icebreaker(s)

 What brought you to the meeting/what you want to learn?

OR

 What is your favorite marsh animal (including any colloquial name)?



Audubon











What's so special about tidal marshes?

Irreplaceable ecosystem services:

- Nursery areas for commercial fisheries.
- Buffer against storm surge.
- Recreation and tourism.
- Filter of nutrient pollutants.
- Huge store of sediment and "blue carbon".
- Unique biodiversity.



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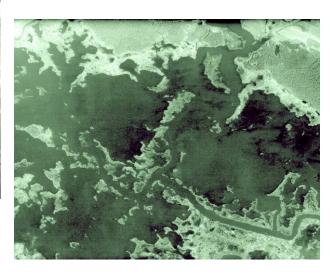
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Blackwater's disappearing wetlands











Maryland vulnerable to sea level rise

- Relative sea level rise in MD is twice the global average.
- Land subsidence (sinking)
- Narrow tides mean flat marshes.
- MCCC predicts SLR of approx. 3 feet (0.9m) by 2100.
- Most of today's marshes will drown by 2100.

Audubon









Marsh restoration methods are being applied – but need scaling up rapidly!

Marsh high enough to drain:
 Relieve flooding with runnels
 (small hand-dug channels).
 Cost: \$1000/acre

2. Marsh too low to drain:

Add sediment to raise the marsh surface.

Cost: >\$20,000/acre



Runneling project: Coastal Bays (2023)

Sediment enhancement: Blackwater NWR (2016)



Marshes for Tomorrow: a project of



Collaborative of local, state and federal agencies and NGO's working on the scale of the Delmarva Peninsula

Del - Mar - Va = Delaware, Maryland, and Virginia

Convened in 2017 by:





Marshes for Tomorrow

Goal: Create an implementation plan to restore and maintain tidal marsh on a landscape scale in Maryland.

We can't save all of the marshes. Which areas should we keep?

Objective 1

Prioritize!

Identify the "best" 25,000 acres of marsh in Maryland to maintain long term.

This is the minimum area needed to prevent Saltmarsh Sparrow from going extinct.

Objective 2

Restoration strategy

Which restoration actions are needed to keep the priority marshes from drowning long term?

Objective 3

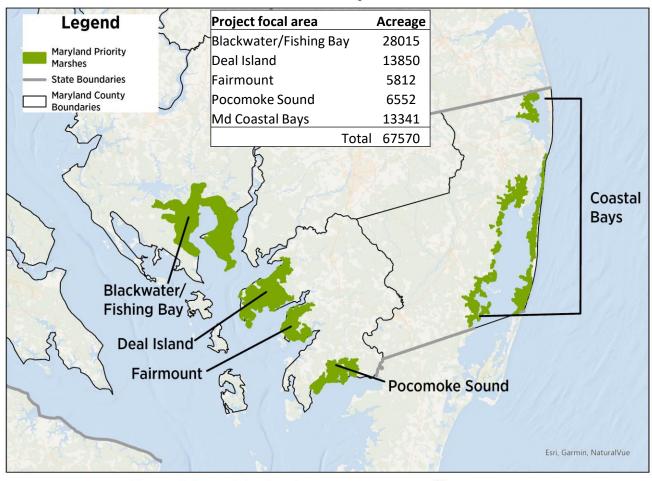
Community input

Create different conservation strategies in teach local/county area.

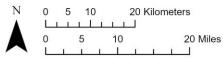
Include input from local communities



Marshes for Tomorrow project focal areas Maryland Priority Marshes for Saltmarsh Sparrow



Map prepared by Audubon Mid-Atlantic in collaboration with ACJV and bird conservation experts





Marshes for Tomorrow

25,000 acre target - What kinds of places will be selected?

- Resilient high marsh:
 - Predicted to remain as marsh for a long time.
 - Still intact not too badly eroded
- Large, contiguous areas of marsh.
- Feasible to restore and maintain, e.g. sediment supply accessible.
- Good Saltmarsh Sparrow habitat (salt hay meadows)
- Include marshes from each of the project's areas.
- Incorporate community input.



Marshes for Tomorrow

What will be in the plan?

Maps:

- Marsh condition.
- Type of restoration needed
- Restoration opportunities
- Selection of priority marshes

Written plan for each of the focal areas



Maps:

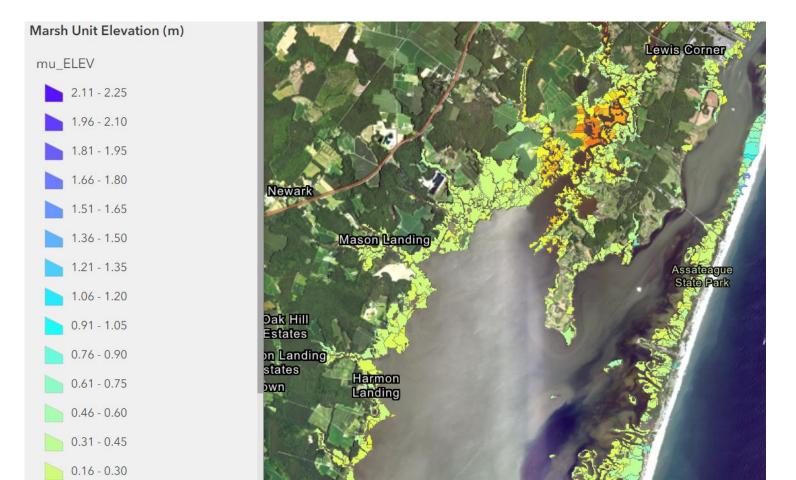
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- Type of restoration needed





Maps:

- Marsh condition.
- Type of restoration needed



Thank you to our **Partners** and **Funders**























Beaches, Bays & Water Ways







GEDAN LAB @ GWU







Questions?



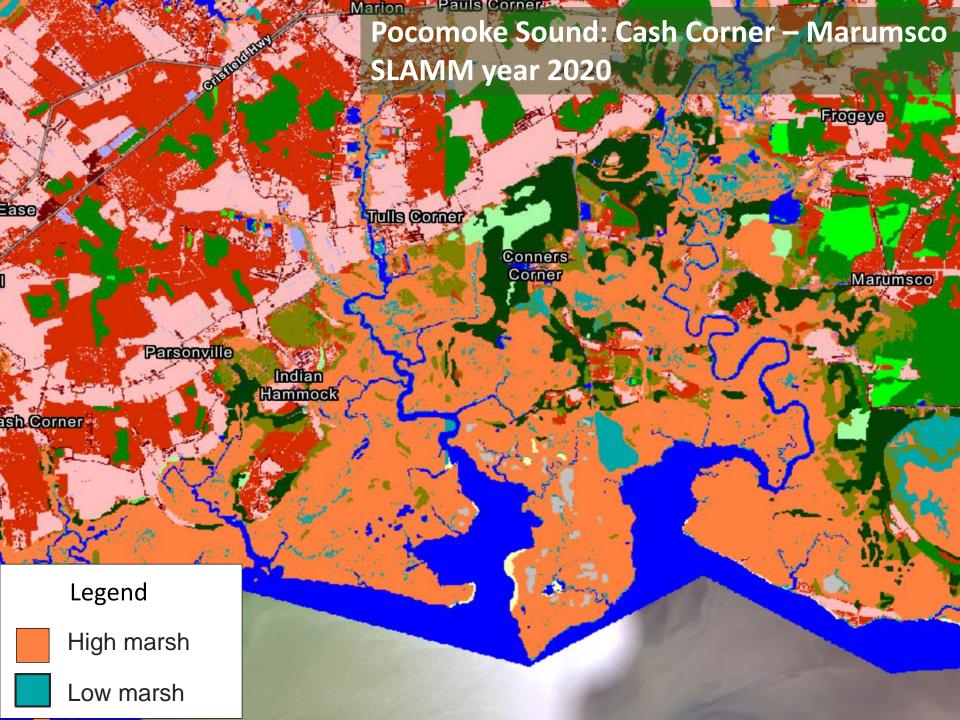
Mapping exercise

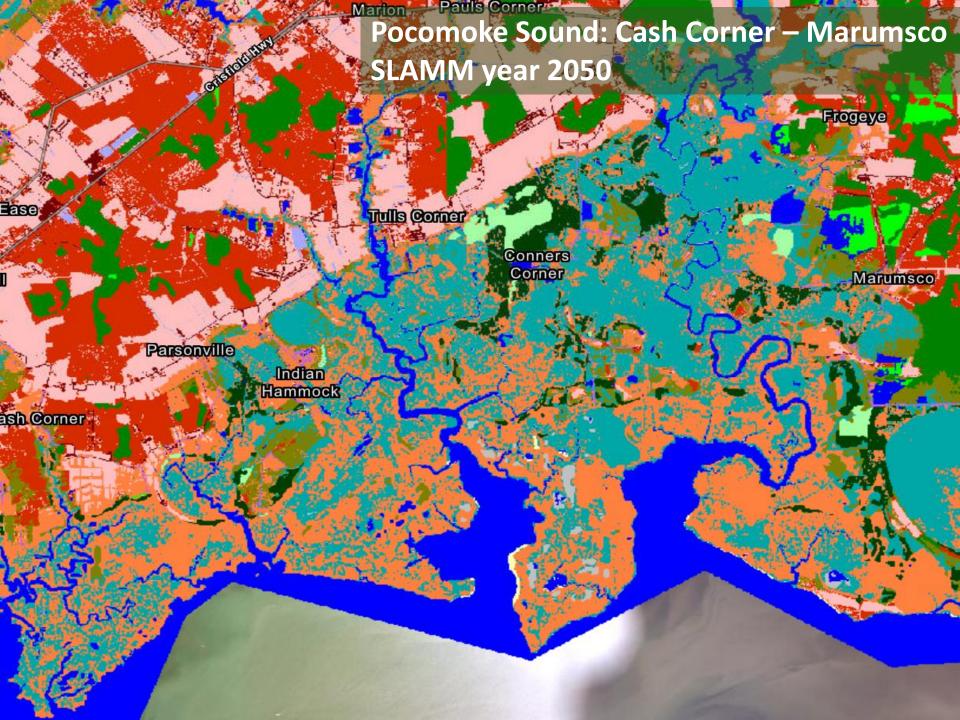


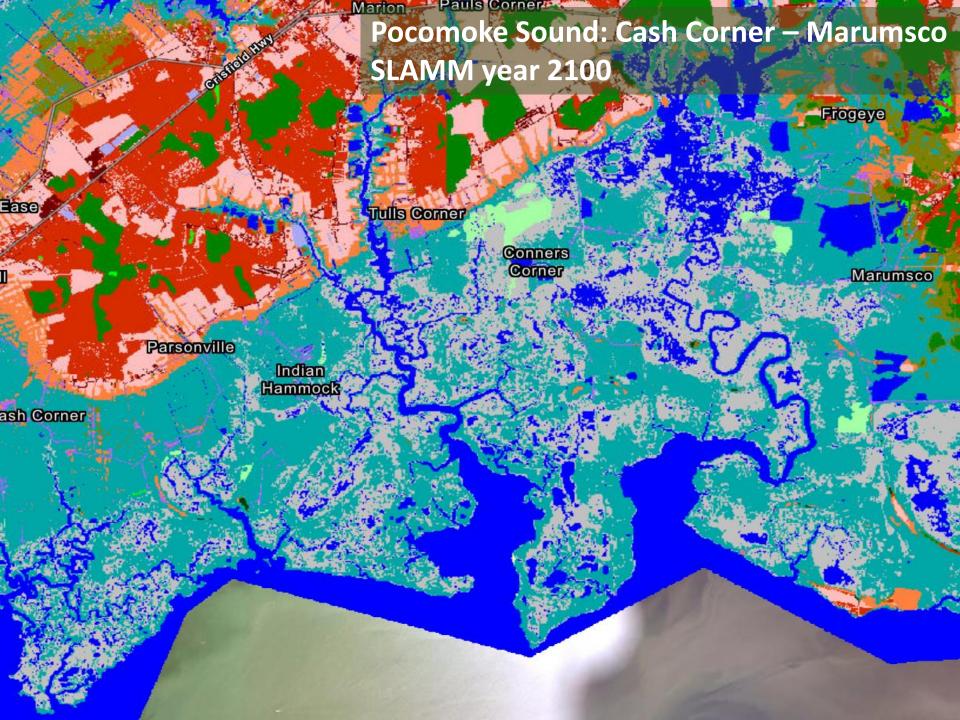
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 - Where have you noticed flooding (blue sticker), invasive species
 (pink), high biodiversity (black), agricultural conversion (yellow), other?
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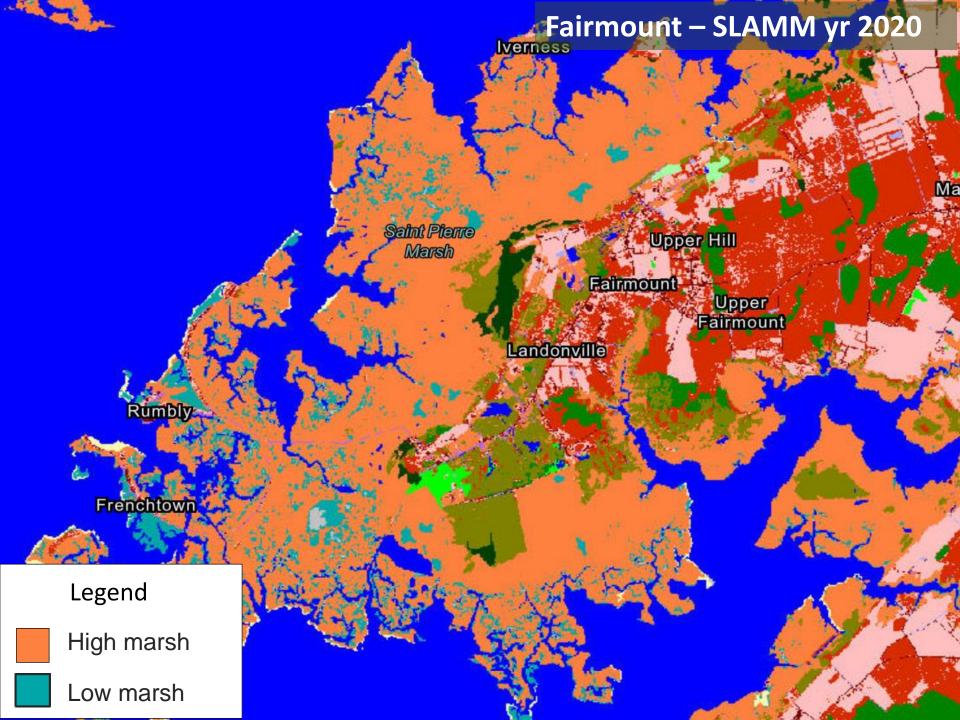


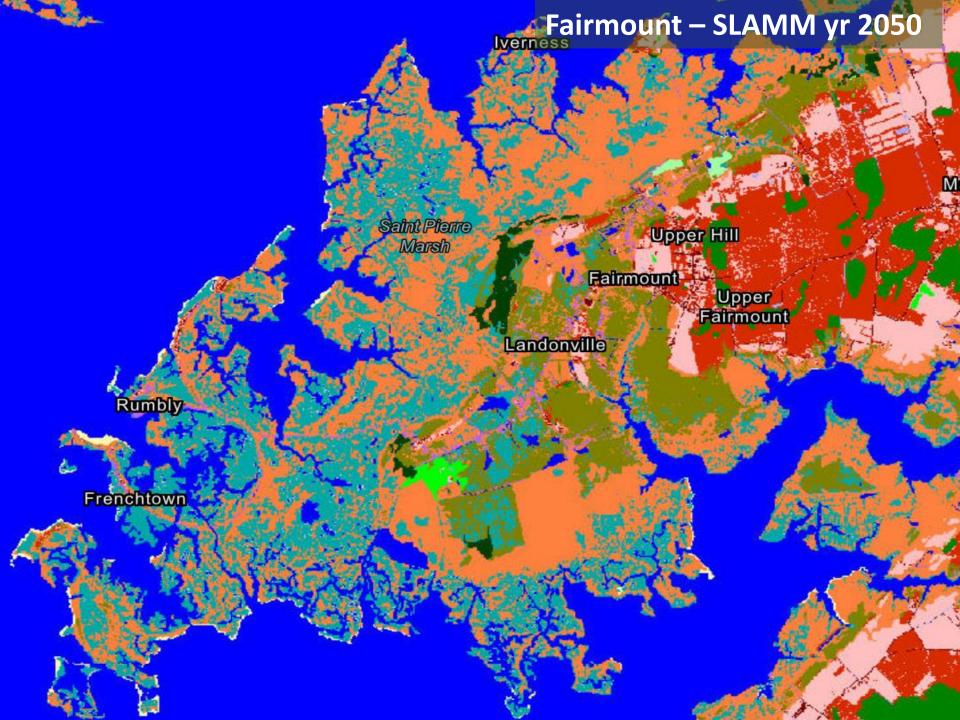


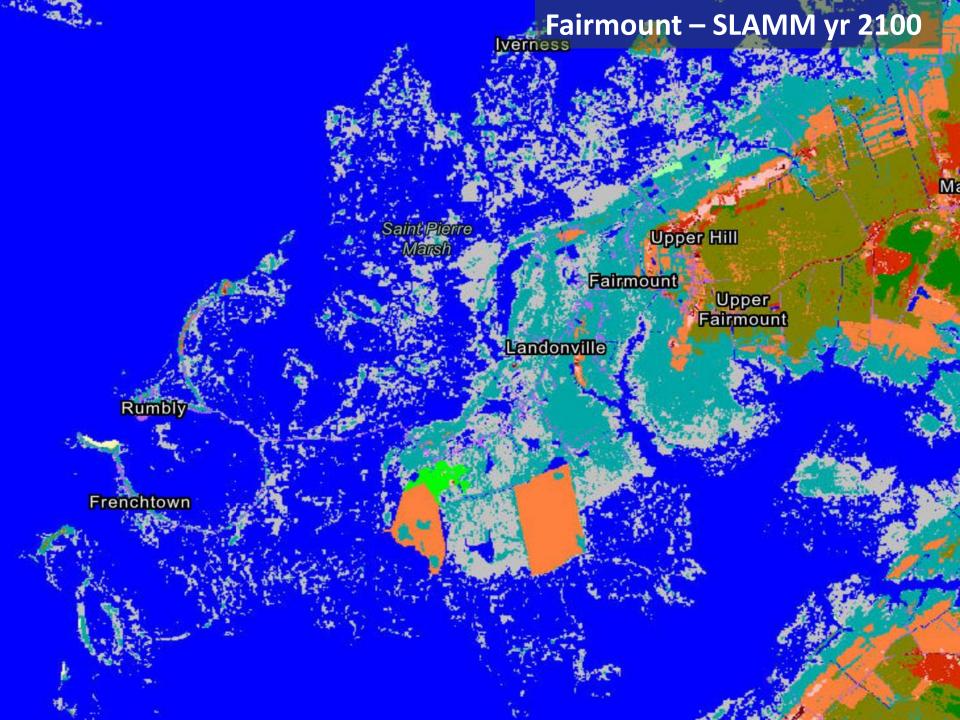




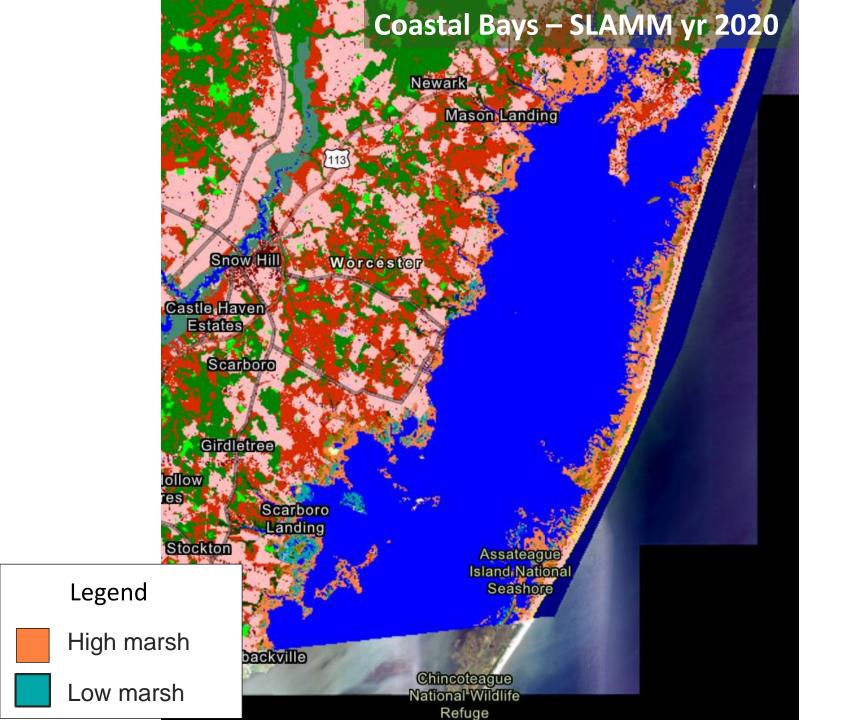


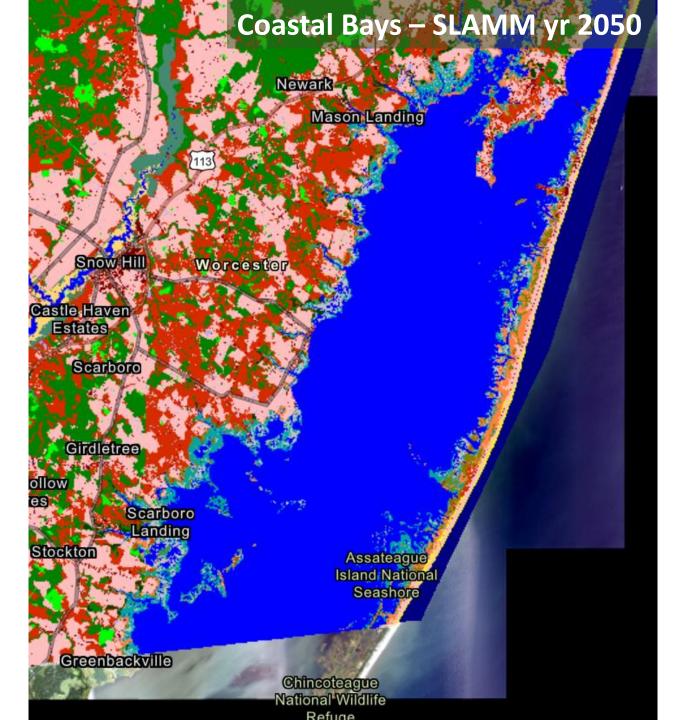


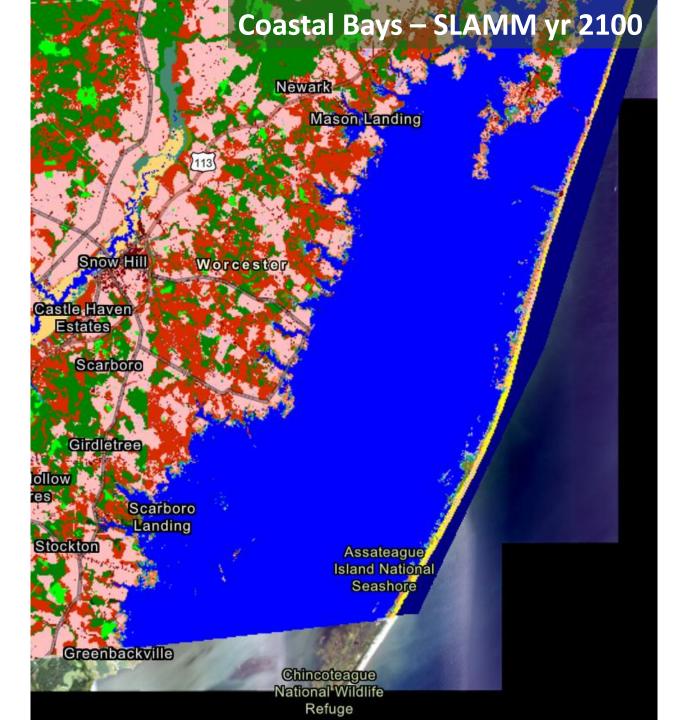




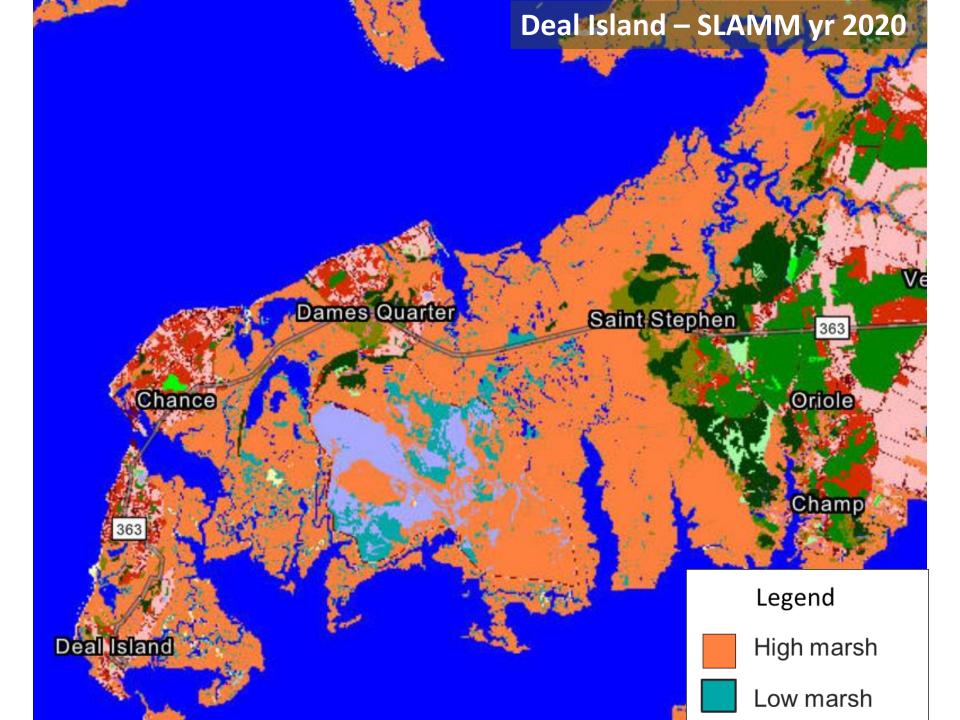


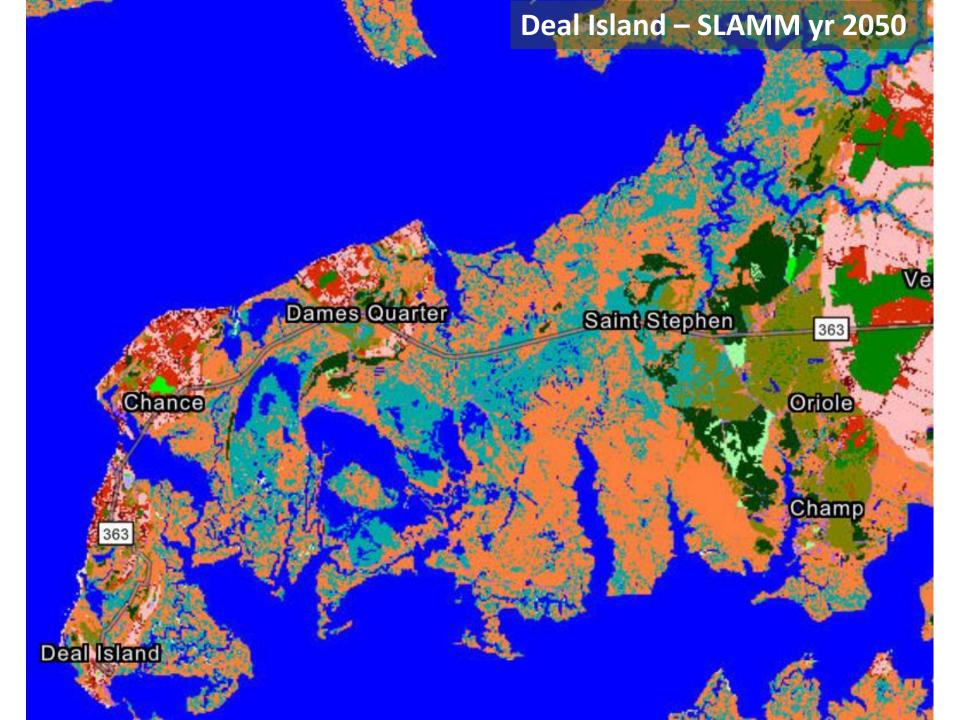


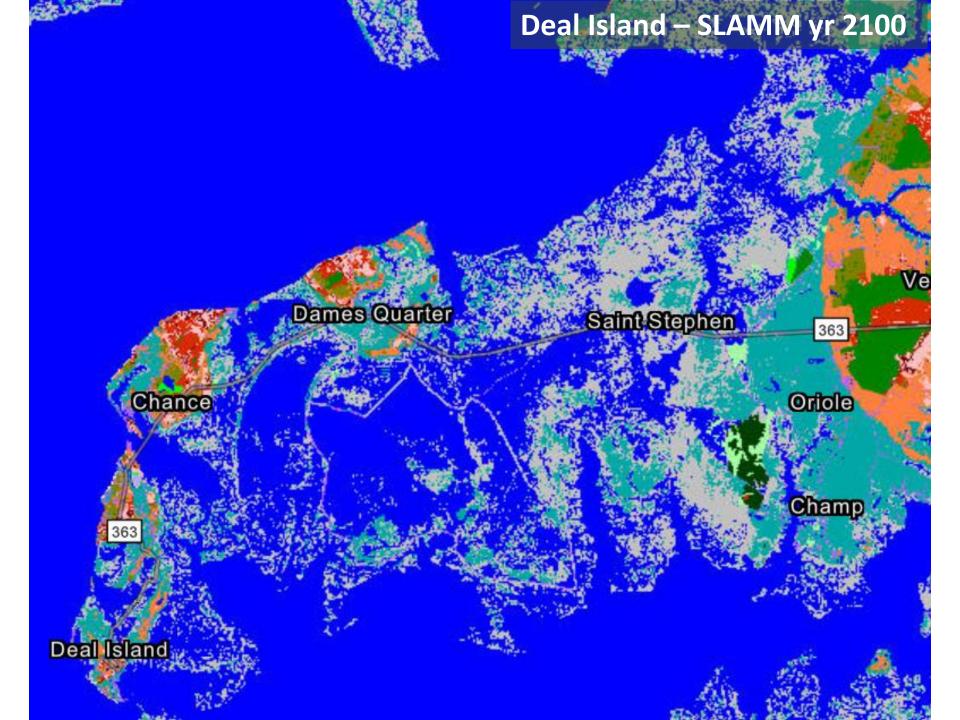




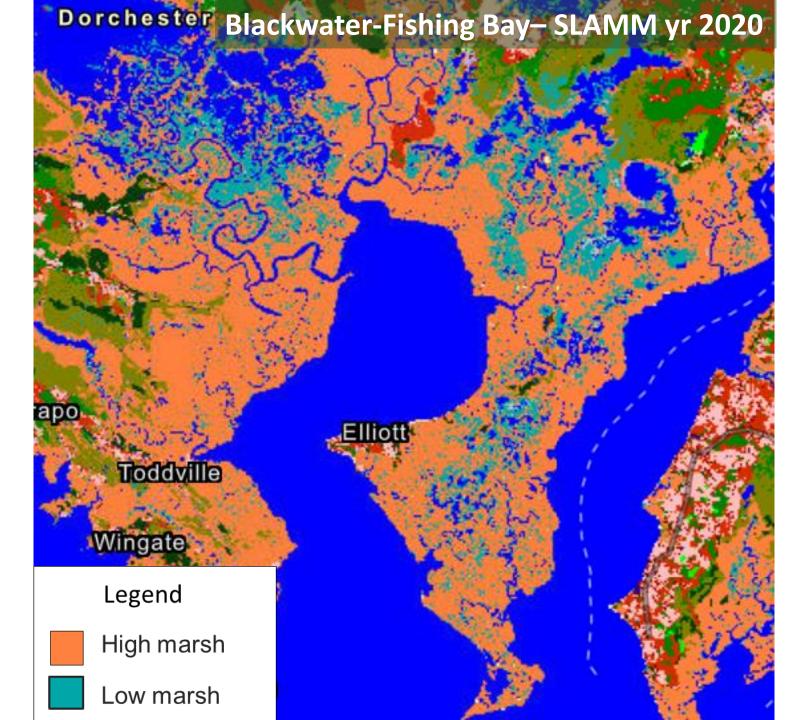


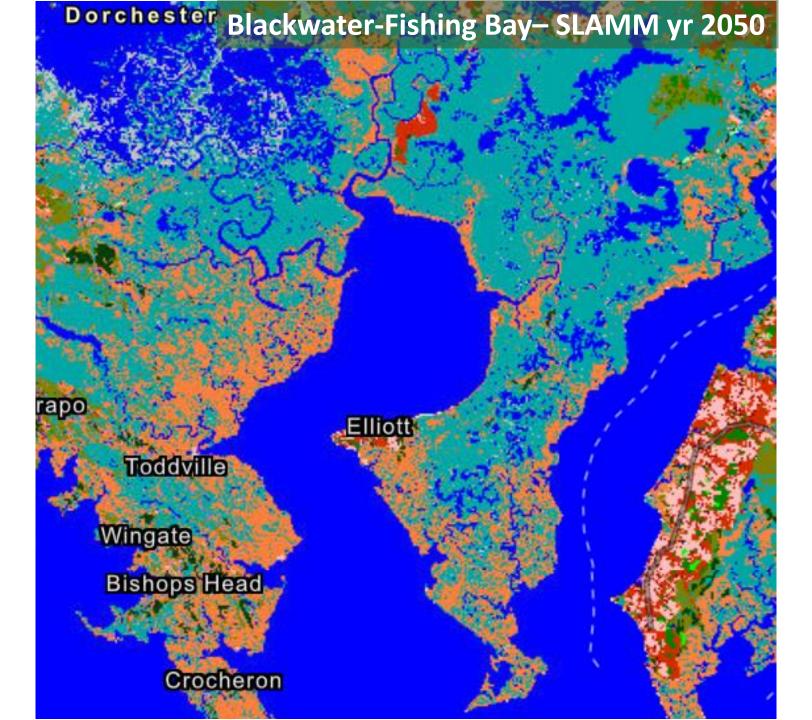


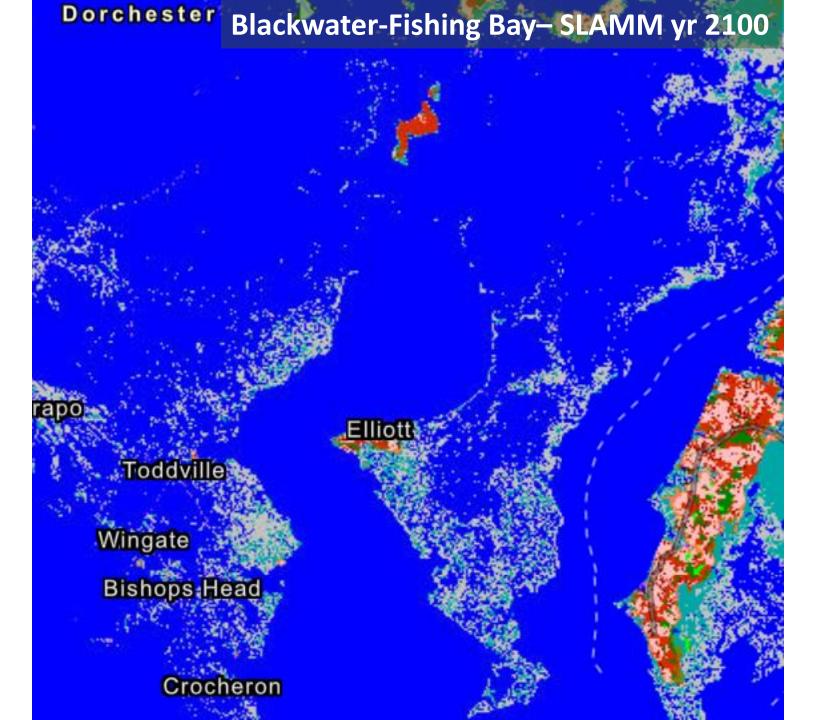














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Whole group discussion

- What comments/questions came up during mapping exercise?
- Does anyone wish to share or elaborate on their input from the exercise?
- What other questions or concerns do you have?



- Thank you for your contributions
- Second-round of meetings in the spring
- Please turn in paper survey
- Raffle draw
- Safe travels home!



