

Living Shorelines & Habitat Restoration



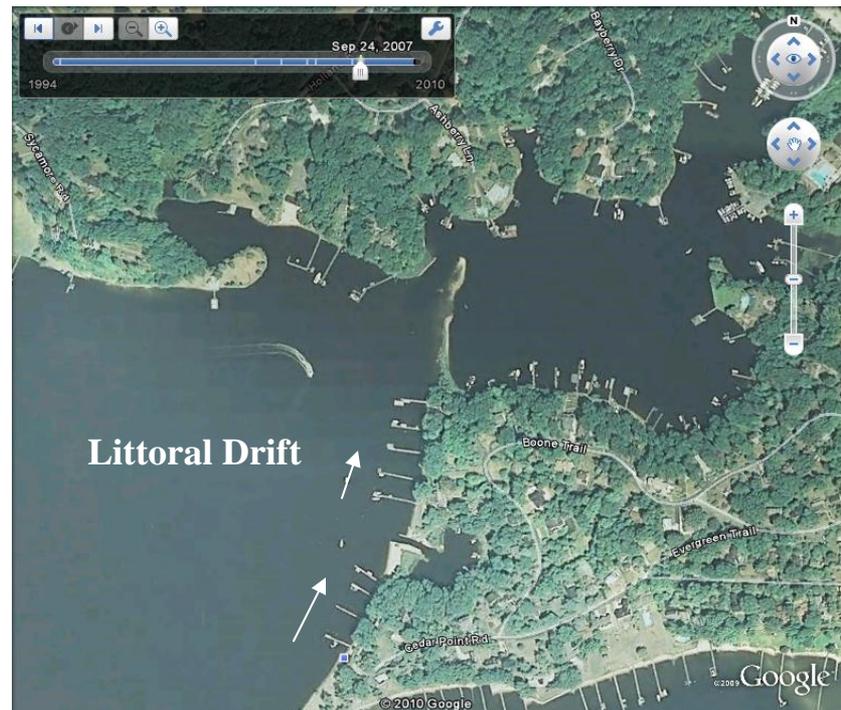
Living Shorelines are About ... **“Process”**



Yantz Cove - 1994

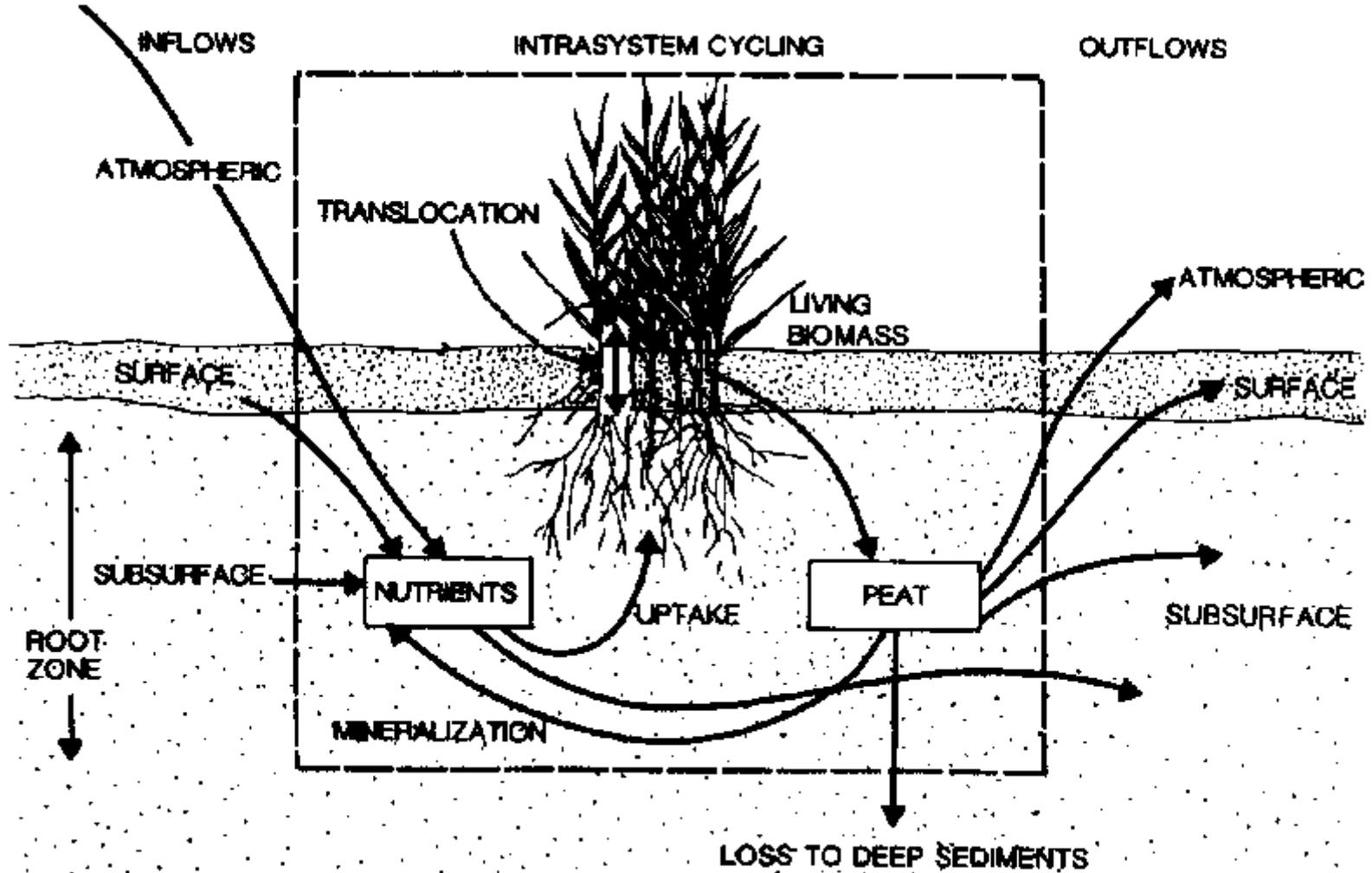


Yantz Cove - 2007



“Water Quality”





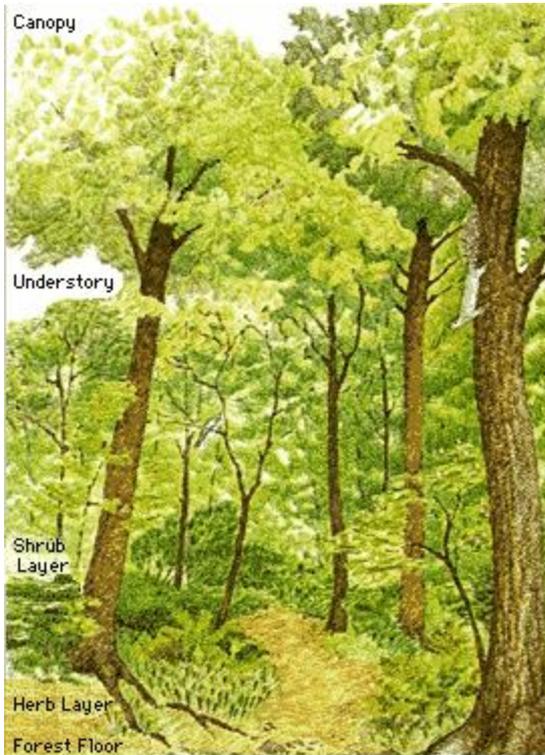
And

“HABITAT”



Habitat = Natural Components

On Land



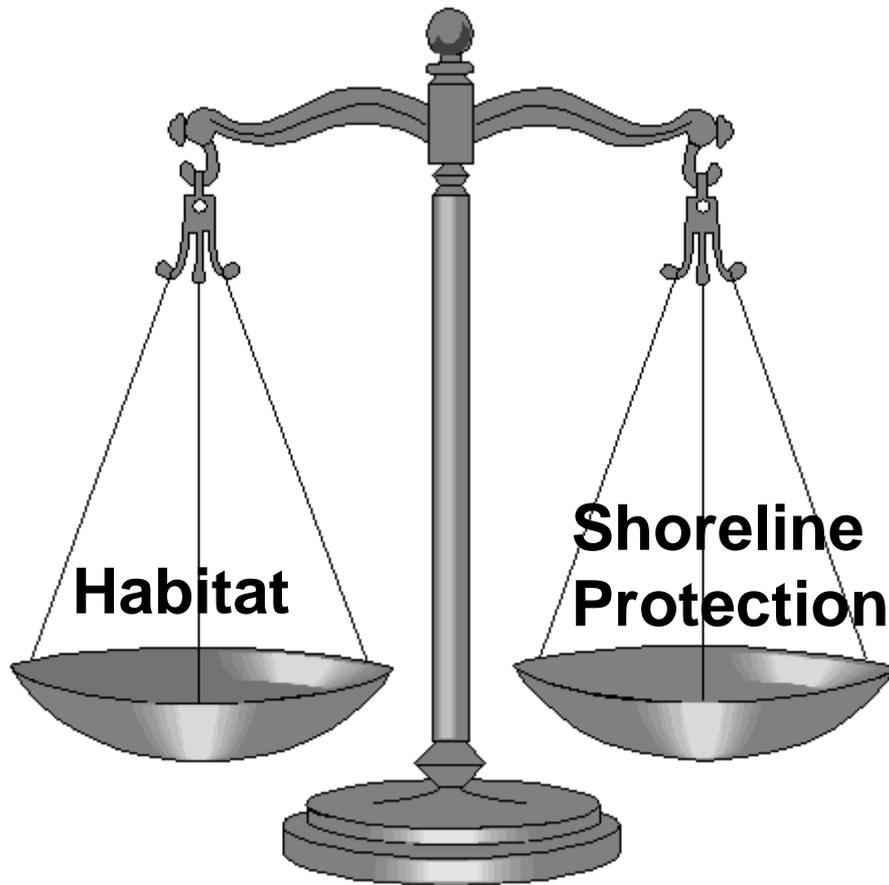
Or



In the Water

And At the Land – Water Interface

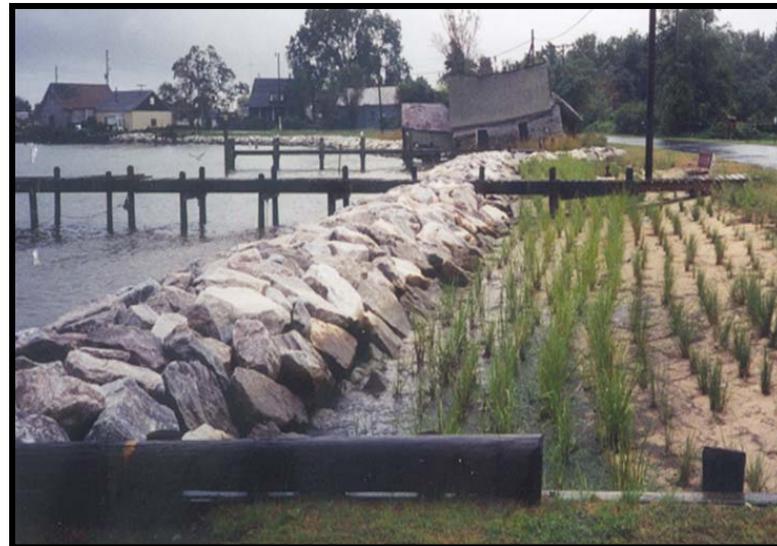
Living shorelines are an attempt to *restore*, *enhance* and *protect* living resources while providing **SOME** degree of erosion control



Sills

Typical Armoring Applications

Revetment (Rip-Rap)



Bulkheads/Seawalls

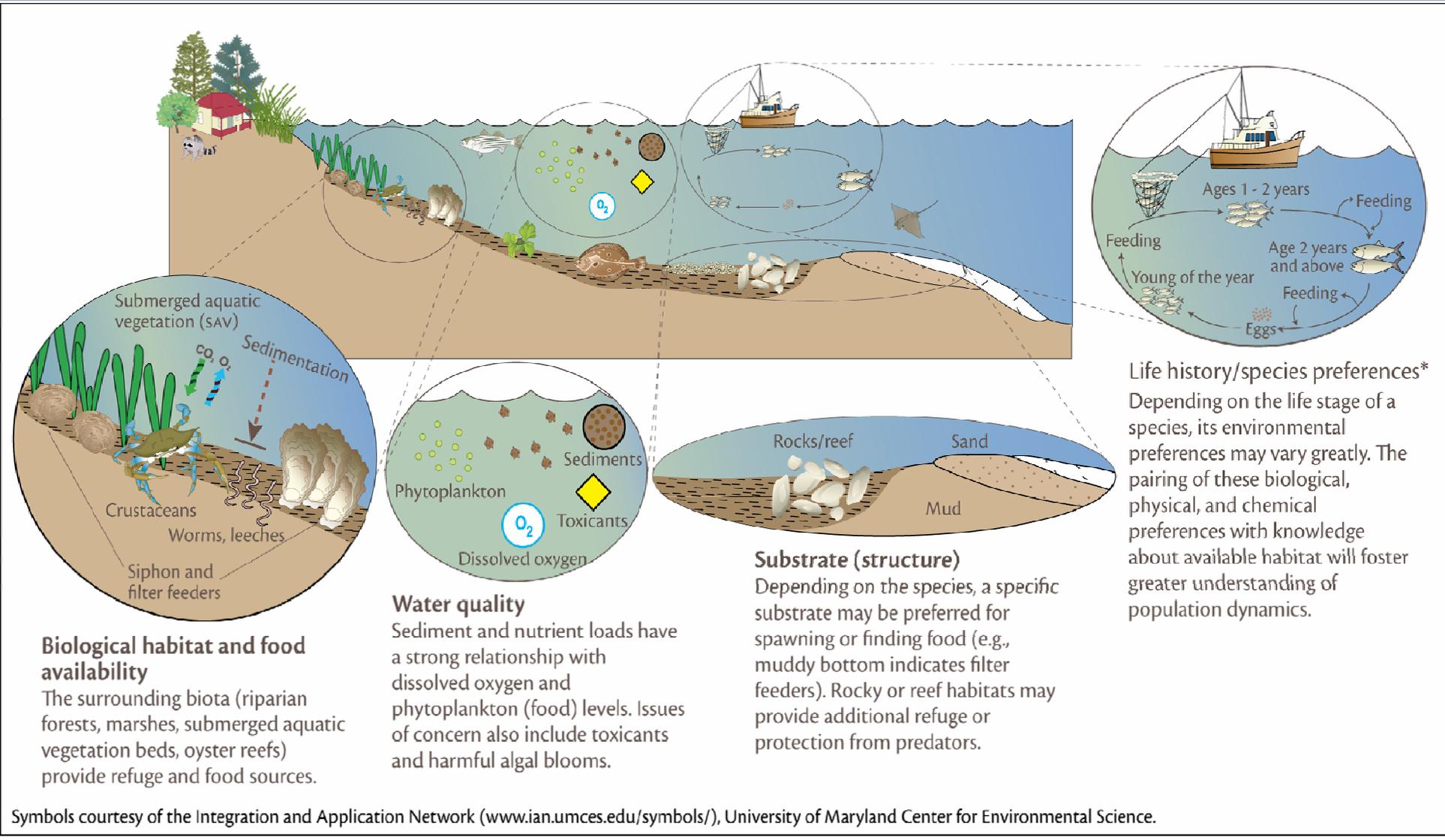


Some of the Best Shorelines are Those That
Provide for a Diversity of Habitat



Offshore Considerations





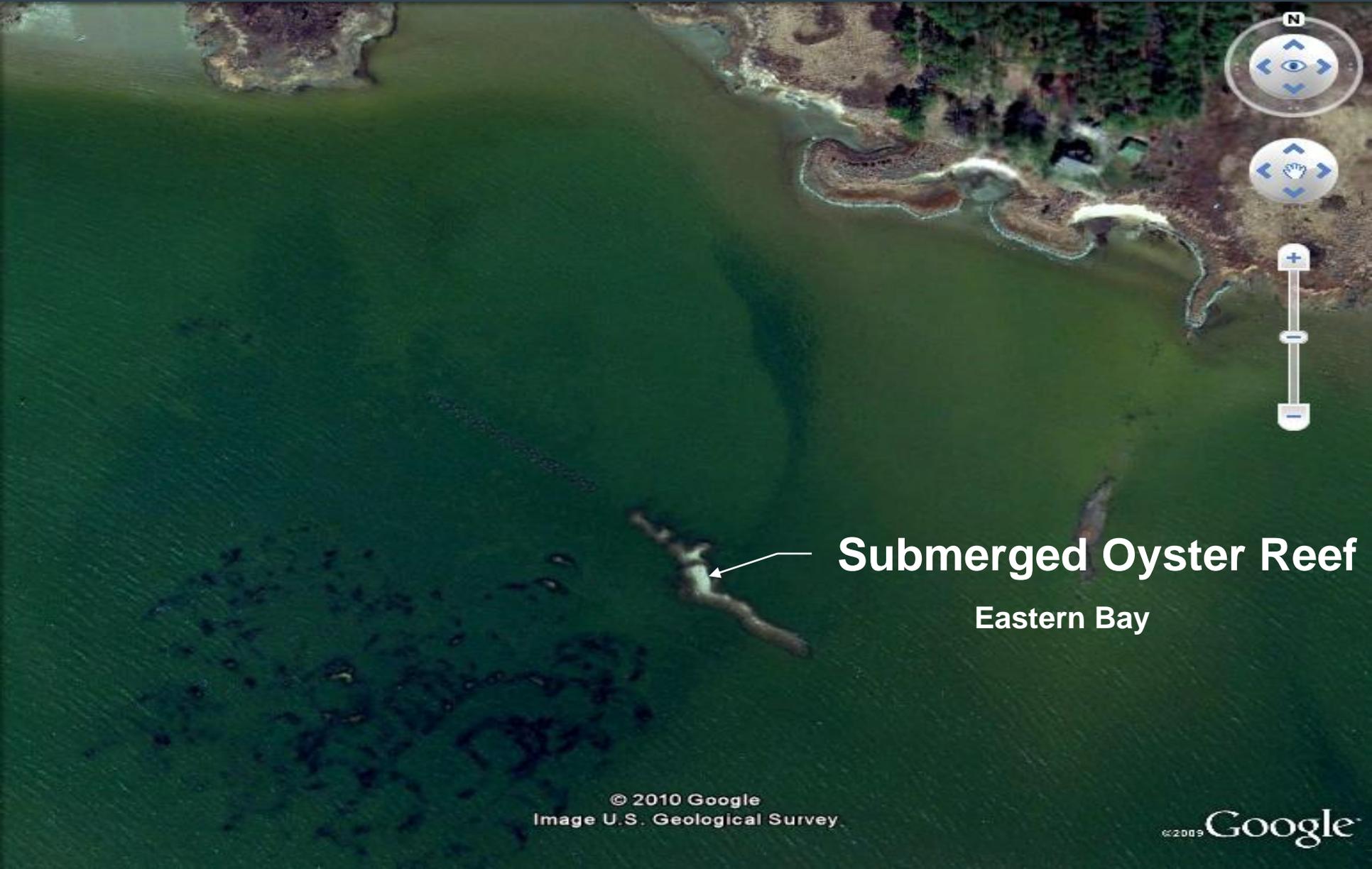
Oyster Bottom Survey Completed in the Early 1900's

Chester River Area



Oyster Reef in Virginia





Submerged Oyster Reef

Eastern Bay

Offshore Structures Colonized By:



**Mussels, Clams,
Oysters,
Barnacles...**

REEF BALLS





Reef Ball Placement in the Choptank River

Toad Fish Peering out
of Reef Ball





Vegetation





Woody Debris















Rock Placement

MAR 15 2007





**This is
Great Rock
Work.**

**But is it
Great
Habitat?**

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