

Living Shorelines & Habitat Restoration



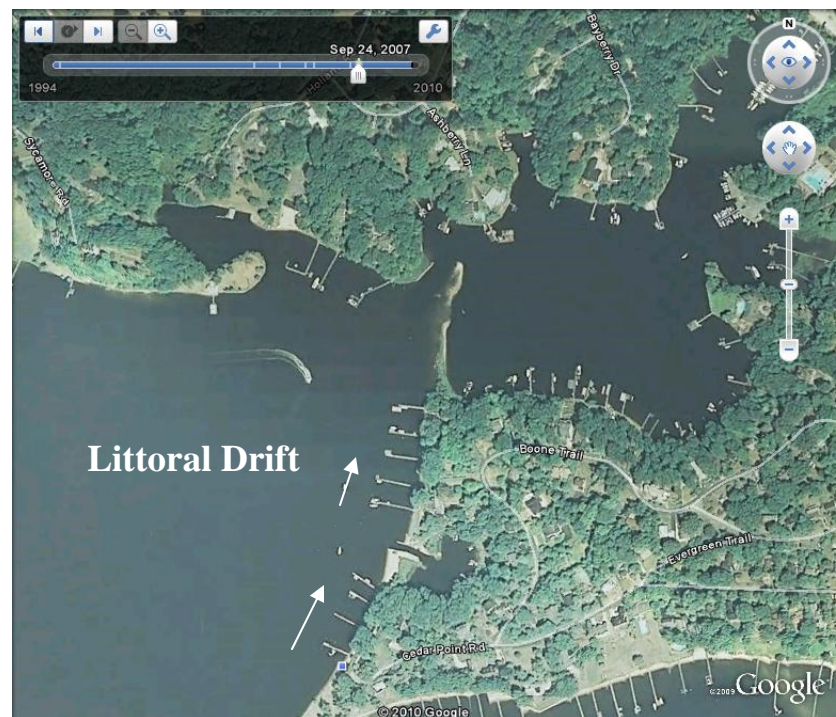
Living Shorelines are About ... “Process”



Yantz Cove - 1994



Yantz Cove - 2007

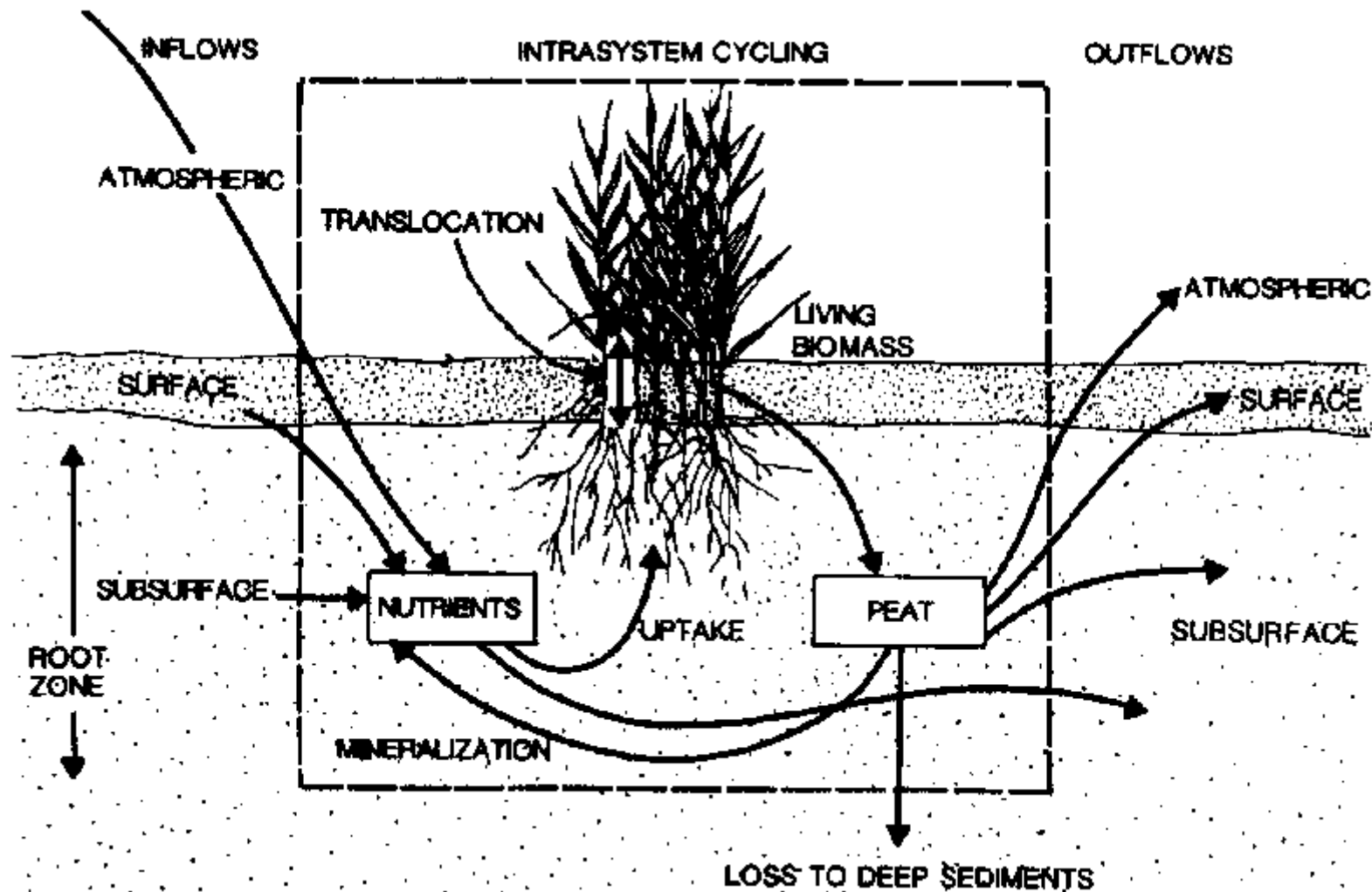


“Water Quality”



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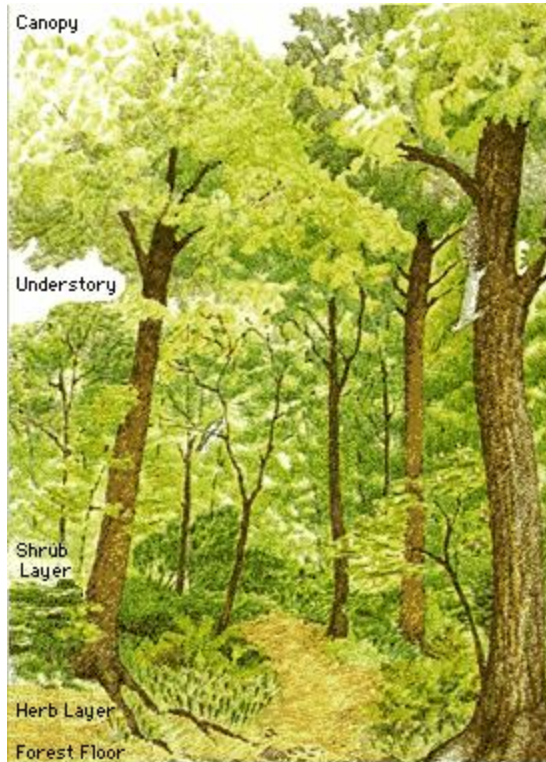
And

“HABITAT”



Habitat = Natural Components

On Land



Or



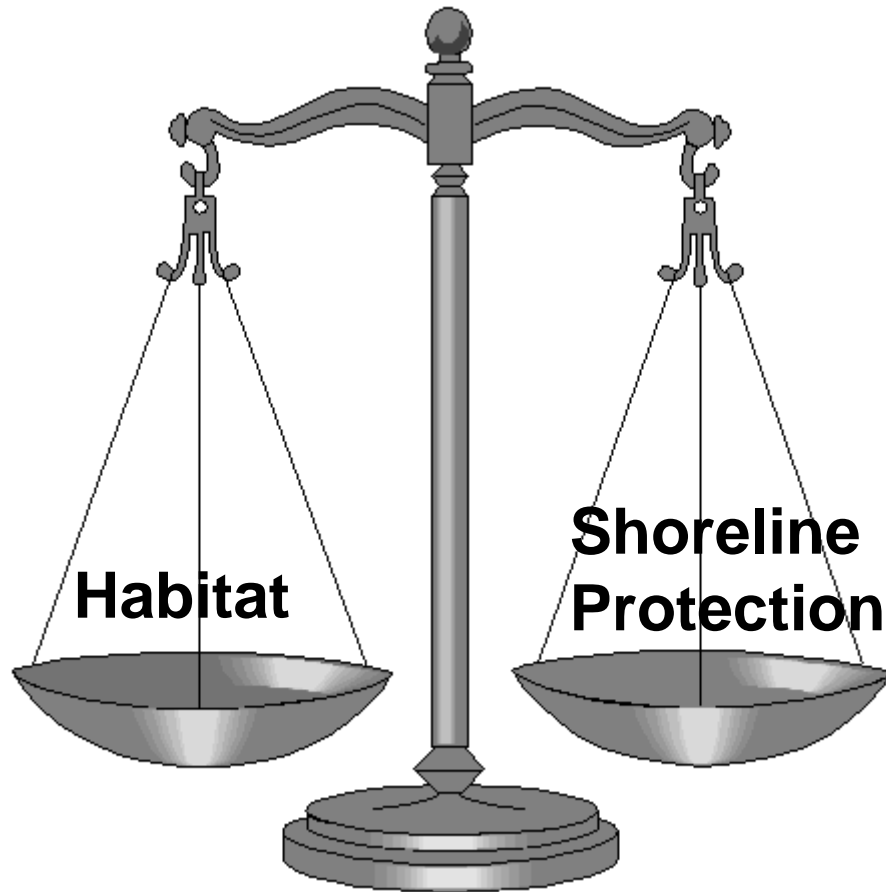
In the Water

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

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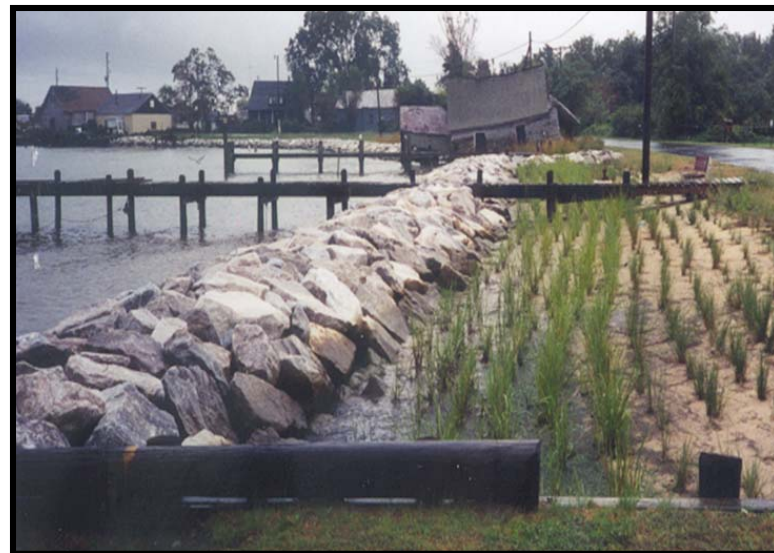
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Sills

Typical Armoring Applications

Revetment (Rip-Rap)



Bulkheads/Seawalls



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

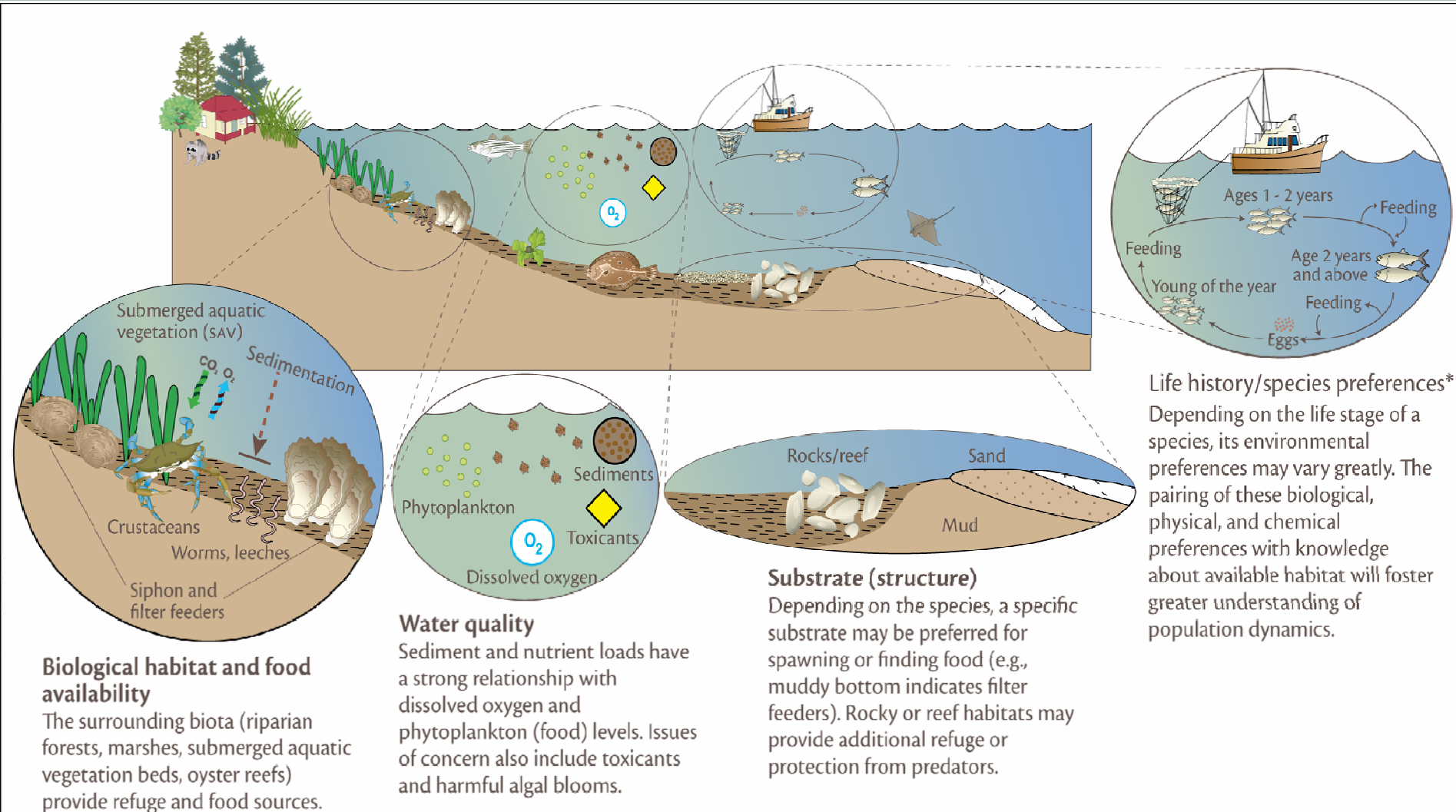


Offshore Considerations



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Symbols courtesy of the Integration and Application Network (www.ian.umces.edu/symbols/), University of Maryland Center for Environmental Science.

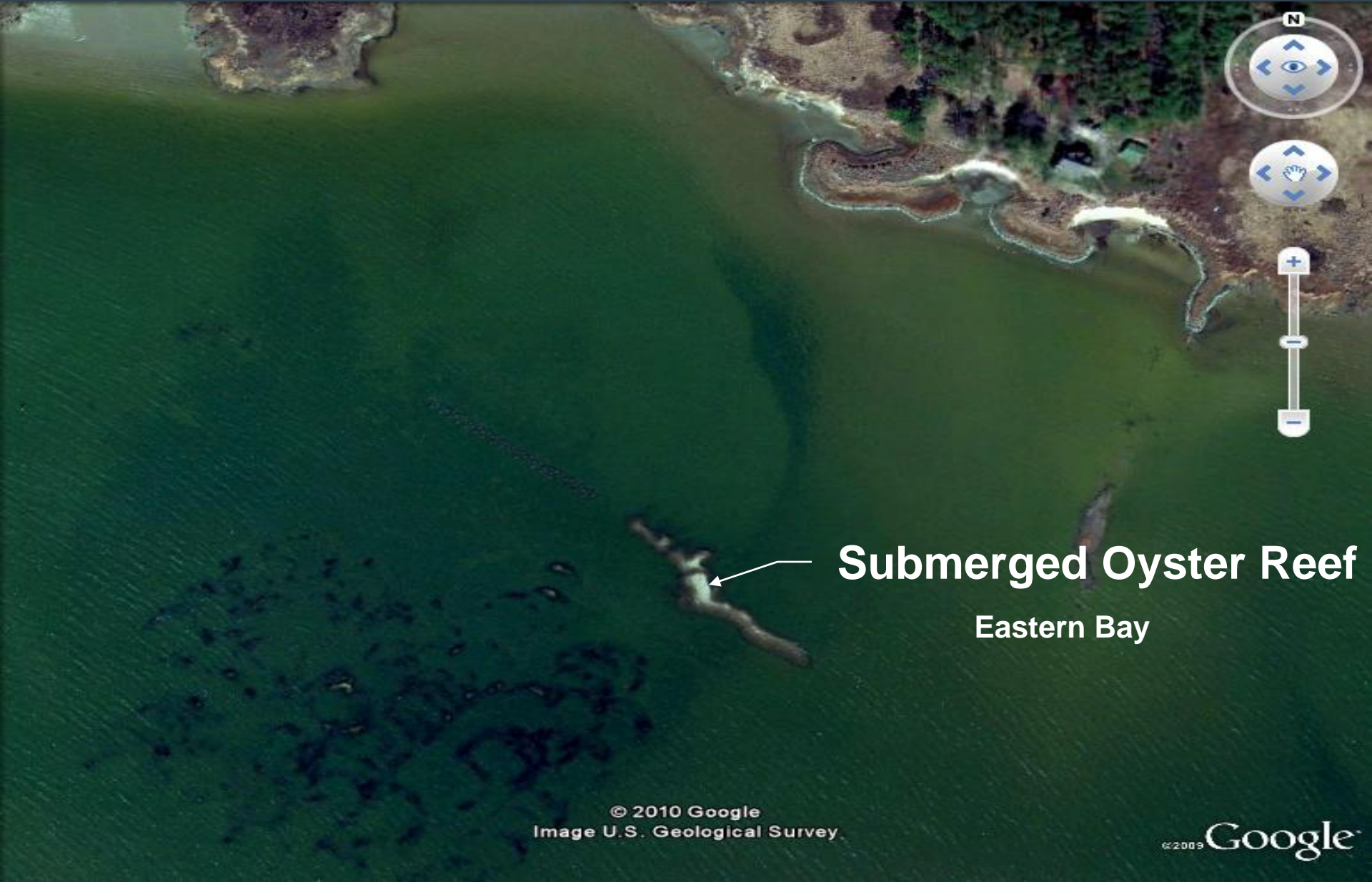
Oyster Bottom Survey Completed in the Early 1900's

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



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Vegetation



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Woody Debris



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Rock Placement

MAR 15 2007





**This is
Great Rock
Work.**

**But is it
Great
Habitat?**

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