Information Gathering and synthesizing subcommittee:

Oyster Aquaculture Lease Area Siting



GIS Planning Goals

- Decrease user conflicts, improve planning and regulatory efficiencies and decrease costs and delays, and preserve critical ecosystem services
 - Reduce conflicting Interests
 - High Boat use regions and pathways would be primary conflicting use.
 - High density hard clam areas would consist of a conflicted use area.
 - Conflicting uses would be exclusion areas for aquaculture.
 - Optimally aquaculture lease areas would be located in areas with low conflicted interests or highly compatible uses.
- Places science-based information at the heart of decision-making.
- Emphasizes stakeholder and public participation.

Current Data

Human-Use Considerations

- Navigational Channels
- Historic Channel dredging
- Marinas, public and private boat ramps, high use boat slip regions

Physical Data

- Bathymetry
- Bottom sediment data
 - DNREC Clam Abundance Surveys
 - Chrzastowski (1986)

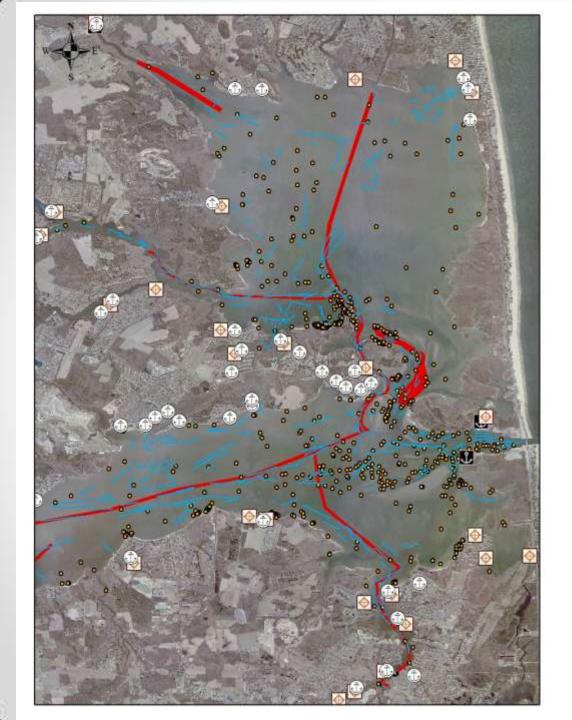
Ecological Data

- Clam abundance and potential habitat
- Seasonal important Bird Habitat
- Shellfish Closure Zones

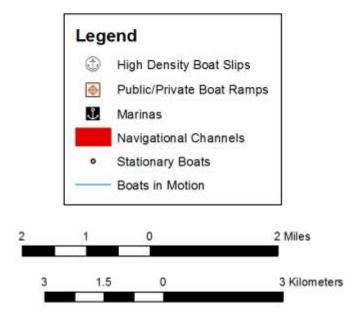
Data (GIS) collection and synthesizing subcommittee

- Determine what data has been collected and what data is still needed to form a Commercial oyster aquaculture suitability map (GIS layer).
- Synthesize data into a GIS layer showing optimal oyster aquaculture areas.

- o Overview reported to team at June 5th meeting
- First draft potential oyster aquaculture product presented to team
- Second draft product presented to team at July 3rd meeting



Human-Use Data

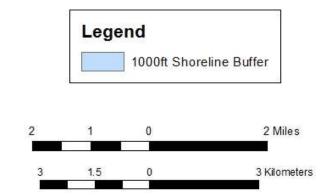




Exclusion Areas



Current Regulatory 1000 ft Exclusionary Shoreline Buffer

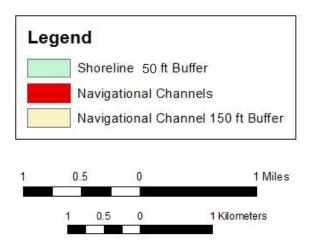








Proposed Buffer Regulations (State of Maryland Buffers): Rehoboth Bay



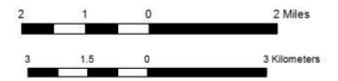






DNREC Clam Harvest Closures

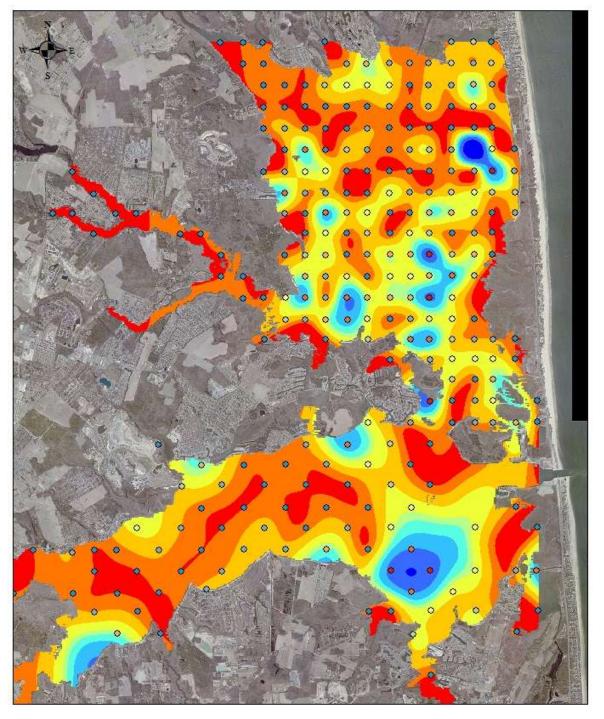




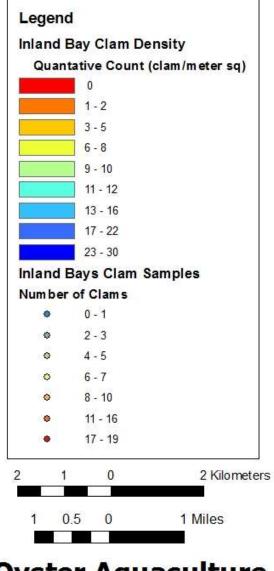


Barren Bottom Classification

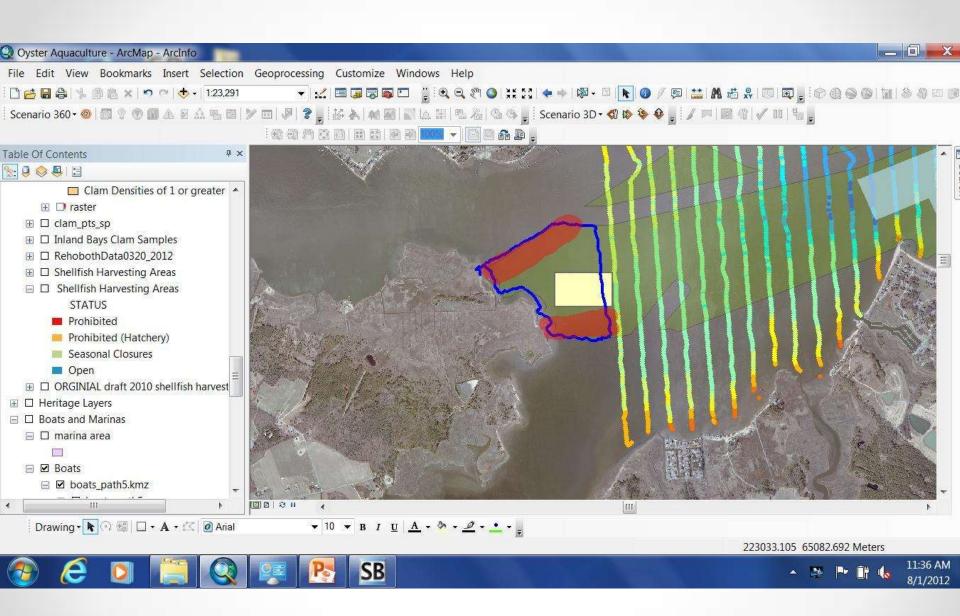
- Rhode Island considers >3 clams per square meter to be the dividing line between productive vs. barren bottom suitable for aquaculture use.
- New Jersey considers > ~2 clams per square meter the dividing line between productive vs. barren bottom.
- Virginia does not have any specific shellfish density standard
 - Use public verses lease designation
- Maryland does not have any specific shellfish density standard

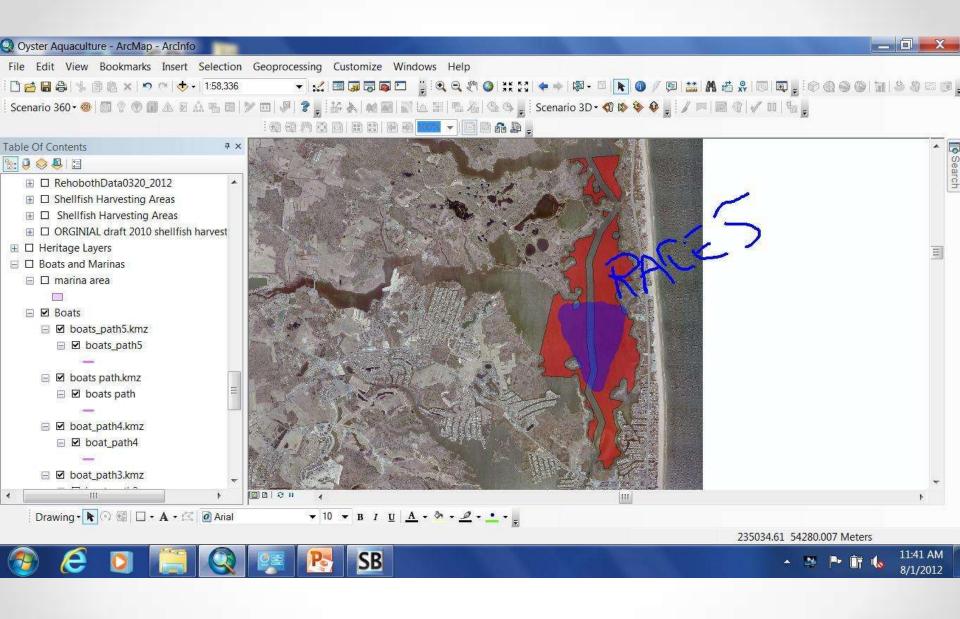


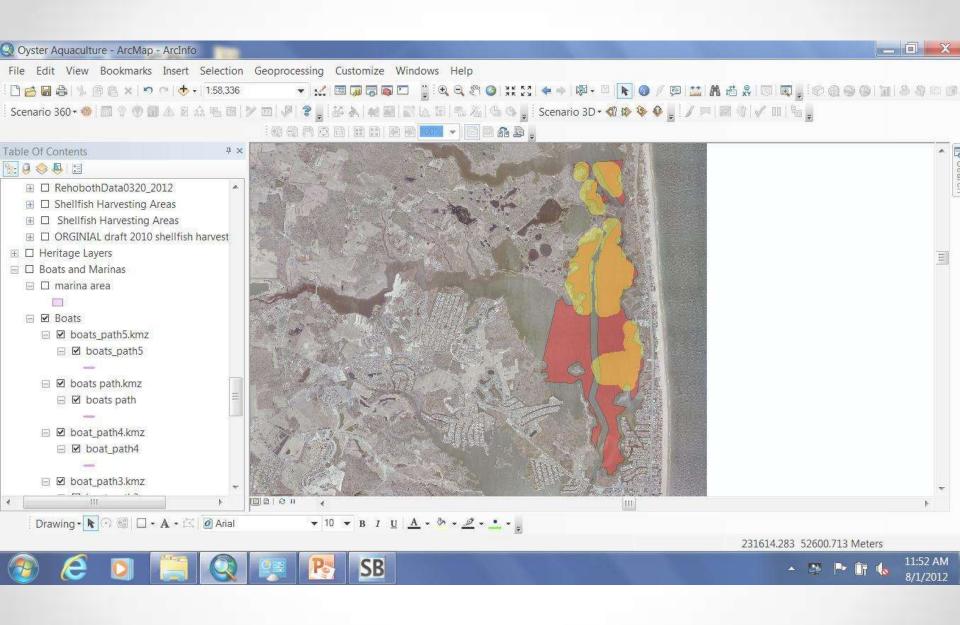
Clam Density and Sample Locations

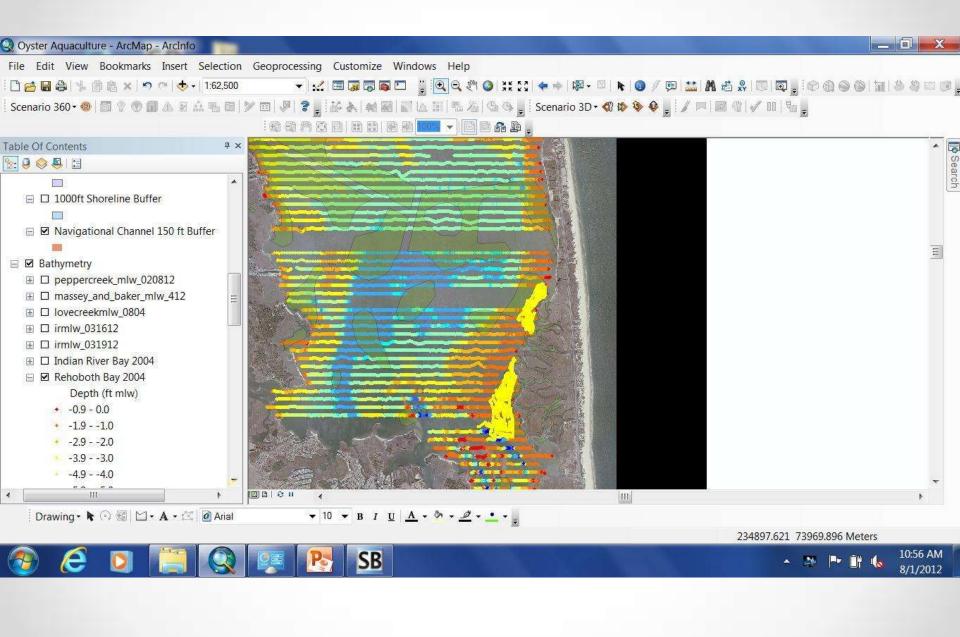


August 1st: GIS Sub-Committee Results







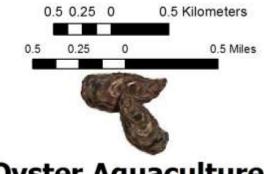




Rehoboth Bay Potential Aquaculture Lease Area

Legend

Potential Aquaculture Lease Area v3

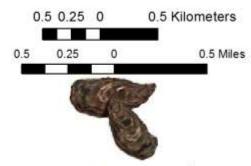


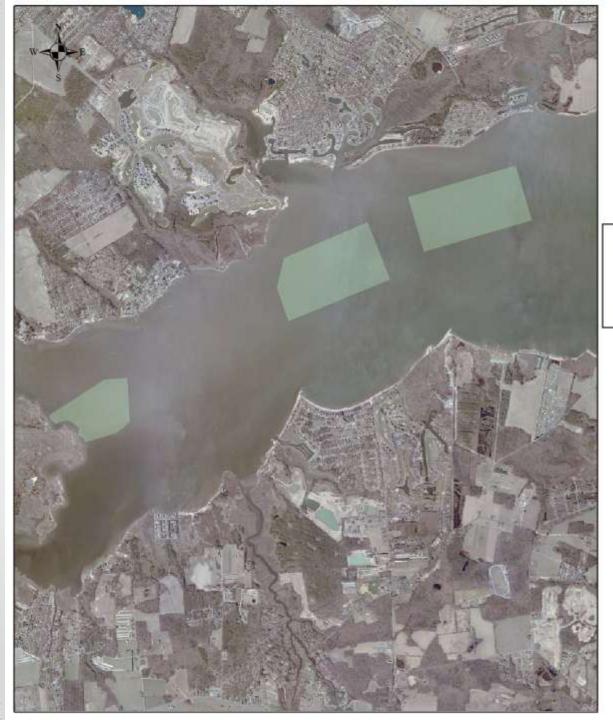


Rehoboth Bay Potential Aquaculture Lease Area

Legend

Potential Aquaculture Lease Area v3

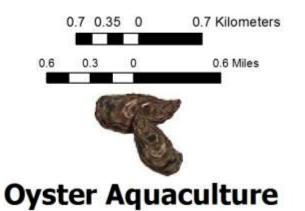




Indian River Bay Potential Aquaculture Lease Area

Legend

Potential Aquaculture Lease Area v3



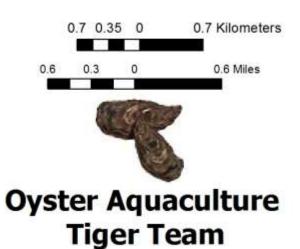
Tiger Team

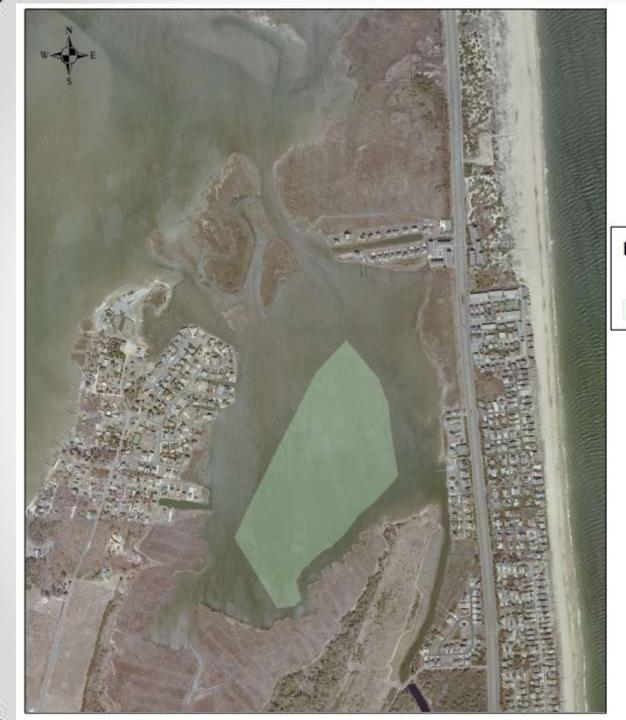


Indian River Bay Potential Aquaculture Lease Area

Legend

Potential Aquaculture Lease Area v3





Sloughs Gut Potential Aquaculture Lease Area

Legend

Potential Aquaculture Lease Area v3

0.0.050 0.1 Kilometers



0.1 0.05 0

0.1 Miles





Sloughs Gut Potential Aquaculture Lease Area

Legend

Potential Aquaculture Lease Area v3

.0.050 0.1 Kilometers

0.1 0.05 0 0.1 Miles

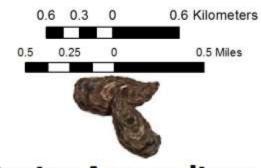




Little Assawoman Potential Aquaculture Lease Area

Legend

Potential Oyster Aquaculture v3

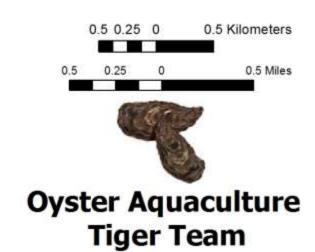




Little Assawoman Potential Aquaculture Lease Area

Legend

Potential Aquaculture Lease Area v3





Area Available for Oyster Aquaculture: Rehoboth Bay

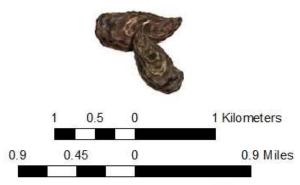
Legend

Areas outside of the OA exclusions

Total Area:

4,299 Acres

45.6% of the total Rehoboth Bays area



Oyster Aquaculture Tiger Team