



Chesapeake Bay Program
A Watershed Partnership

Connecting Land Use and Water Quality to Fishery Sustainability

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2012 Virginia Coastal Partners Workshop



Virginia Coastal Zone
MANAGEMENT PROGRAM



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Sustainable Fisheries Goal Implementation Team

- A diverse group of senior fisheries managers, scientists, and stakeholders working to promote and maintain sustainable fisheries across all bay jurisdictions.

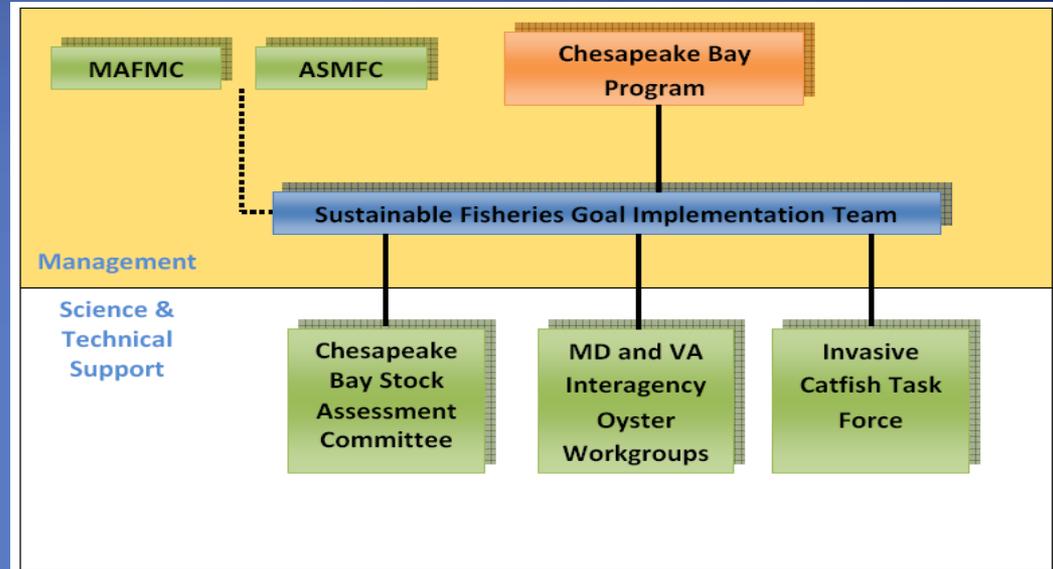




Our Charge

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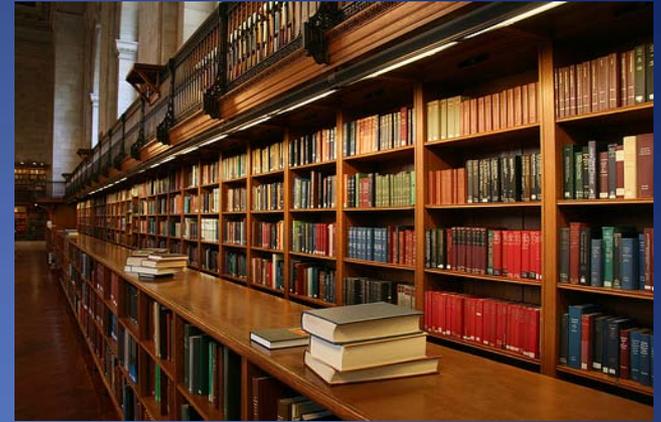
- Facilitate regional fisheries management
- Better connect science to fisheries policy
- Engage stakeholders
- Incorporate habitat and ecosystem based methods into fisheries management decisions





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The story so far...



- Management concerned with regulating what goes in as well as what comes out of the estuary
- The pie is shrinking but stakeholder needs remain constant
- Over the last year we have initiated a conversation with fishery managers, planners and stakeholders on how to better link land use decisions to living resource management



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User Groups

Target Audiences

User groups
Professional Planners
Decision Makers

Land Use and Fisheries

1. Develop guiding Principles for Protection of Chesapeake Bay Fish and Shellfish
2. Identify Special Places
3. Engage stakeholders, public, and communities.

Professional Planners

Decision Makers



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1. Develop Guiding Principles to Promote Fisheries Sustainability

- Convey a set of values that resource managers believe will lead to better policies and management recommendations
- Science-based perspective on land management practices that will protect valuable aquatic/estuarine resources
- Intended to help land use decisionmakers effectively evaluate and consistently formulate sound recommendations on proposed projects that could adversely impact valuable aquatic/estuarine resources



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Principles for Protection

- *Limit Impervious Cover*





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Principles for Protection

- ***Buffers***





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Principles for Protection

- *Estuarine Protected Areas & Sanctuaries*





Principles for Protection

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- *Best Management Practices to Preserve Water Quality*





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Principles for Protection

- *Best Management Practices to Preserve Water Quantity*





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Principles for Protection

- *Coastal Habitat Protection*





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Principles for Protection

- *Coastal Habitat Restoration*





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Principles for Protection

- Protect Headwater Streams

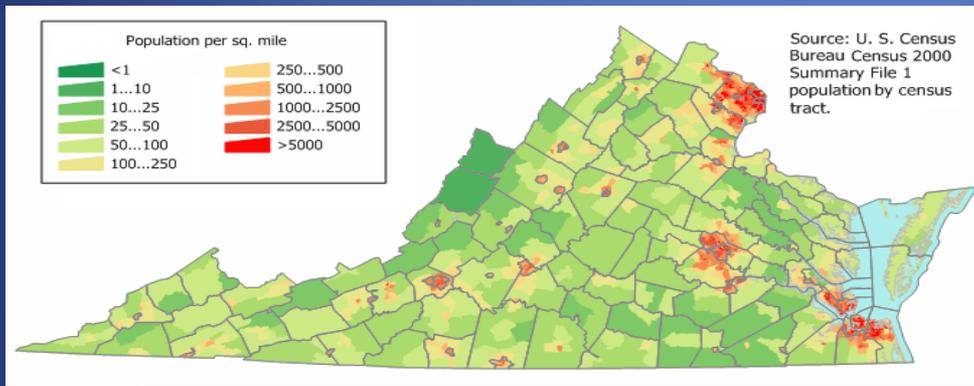




Principles for Protection

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- Smart Growth/Density Allowances

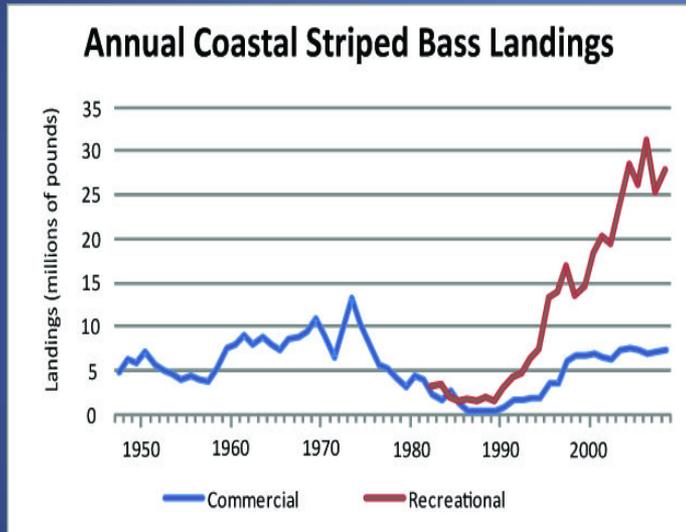




Principles for Protection

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- Fisheries Regulations

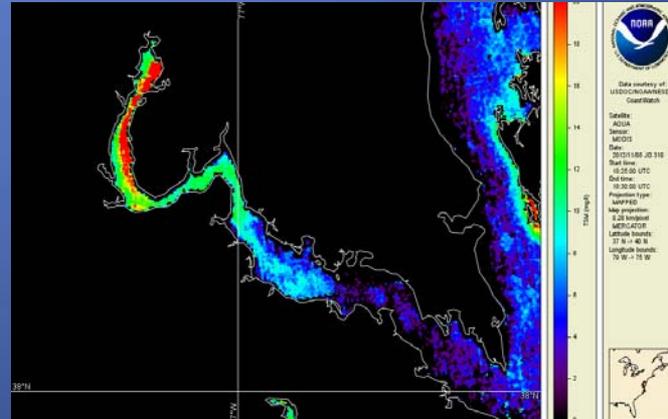




Principles for Protection

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- Research and Monitoring

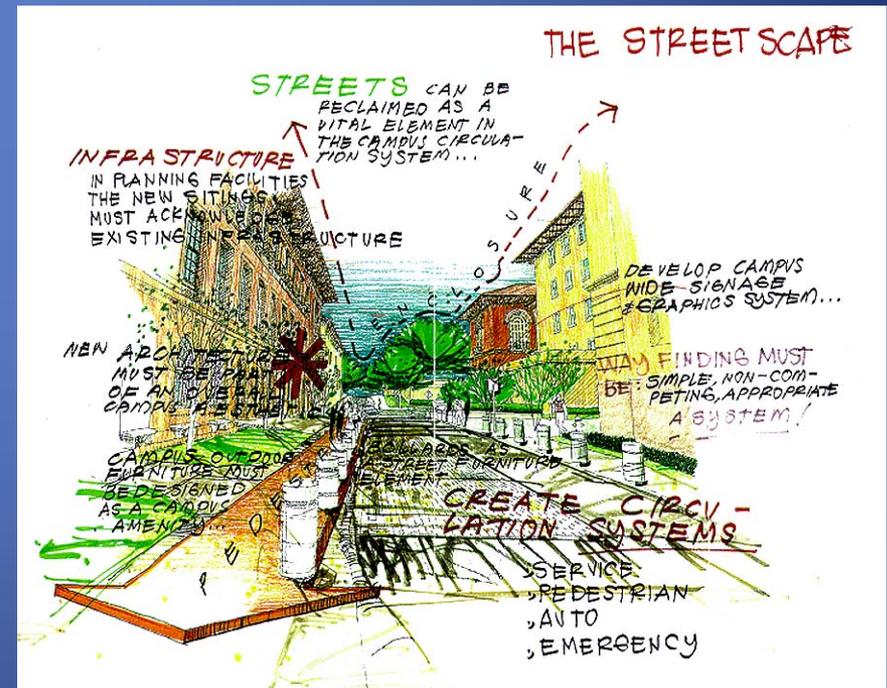
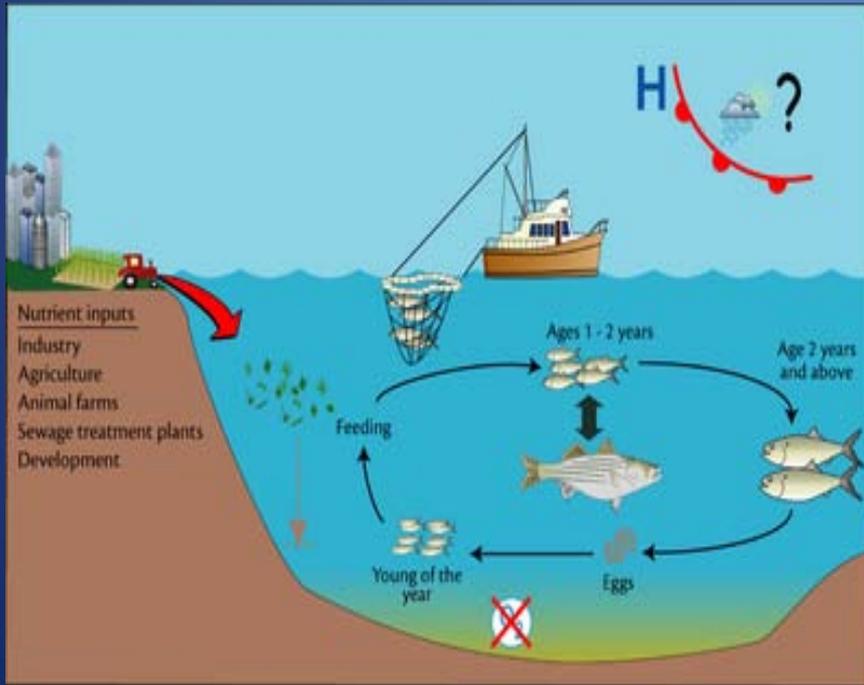




Principles for Protection

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- Consider Ecosystem-Based Fisheries Management Goals in Revising Land Use Planning Approaches

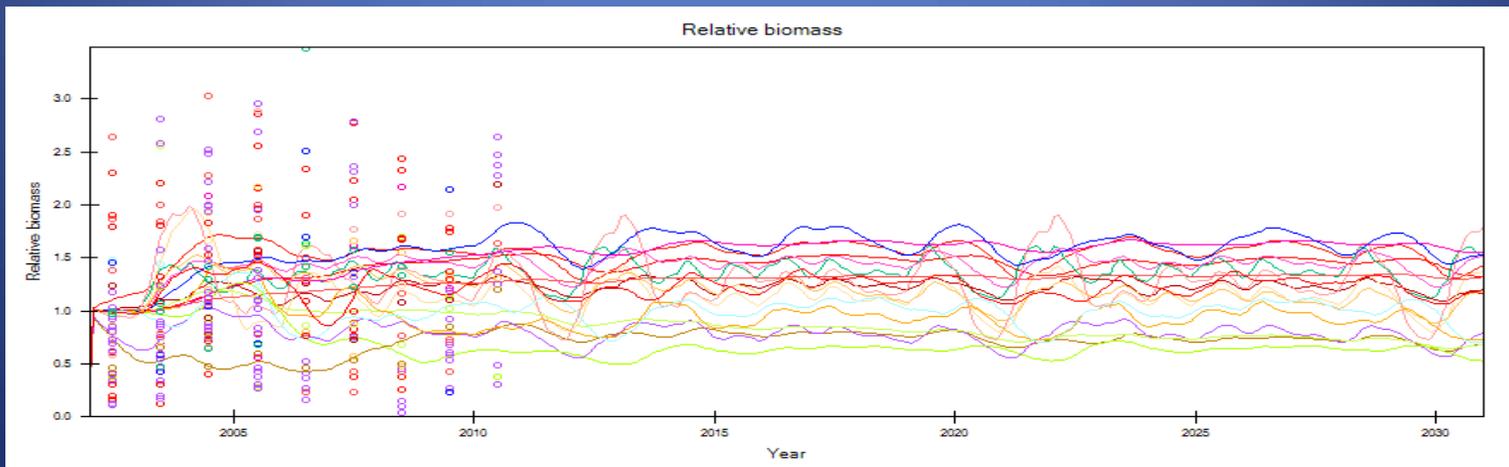
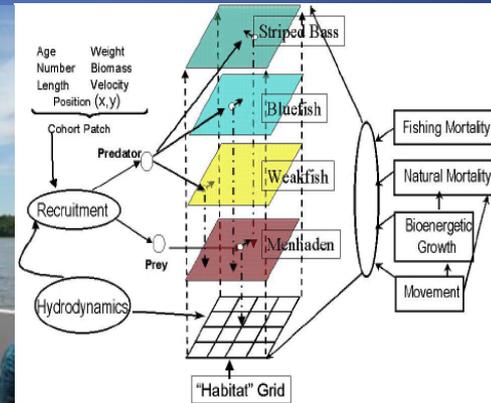
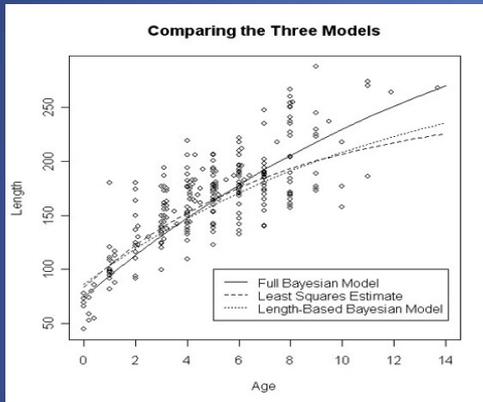




Principles for Protection

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- Modeling





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Principles for Protection

- Balancing coastal uses

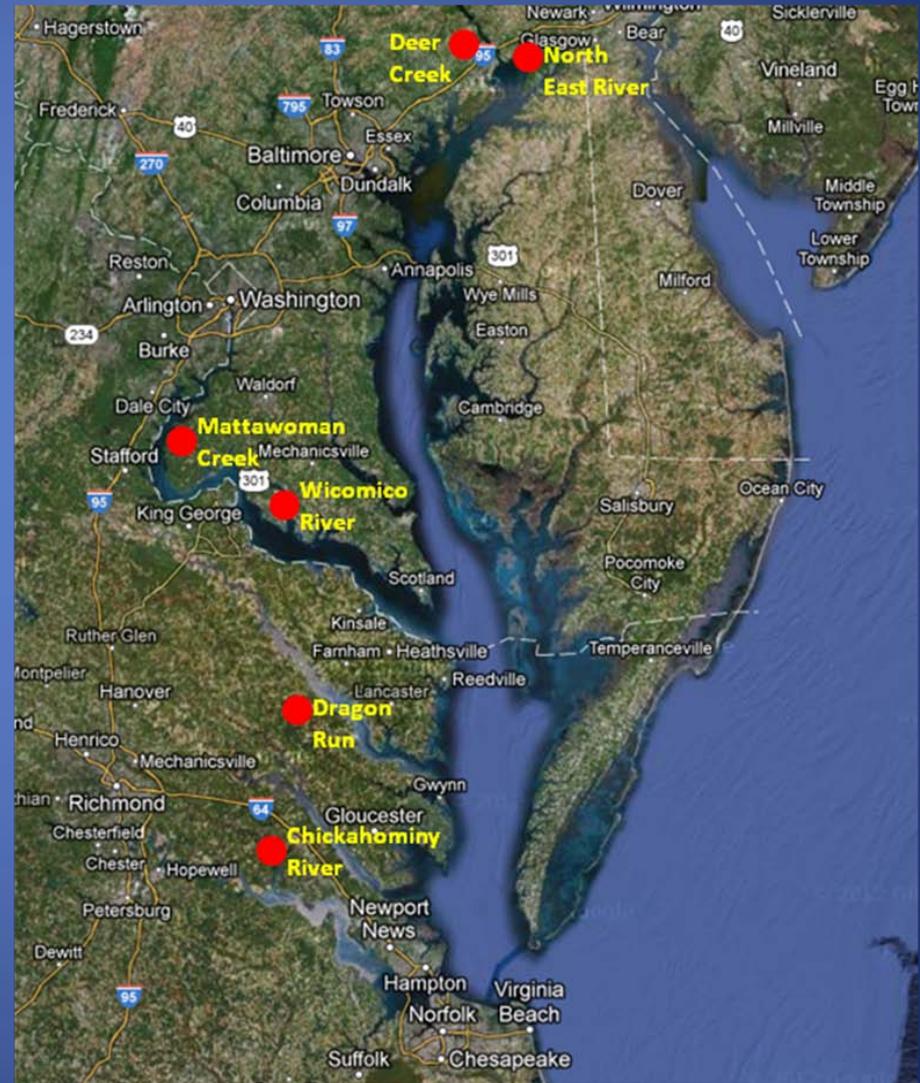




2. Identify Special Places

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- Target special places to apply guidance and protection principles
- Incorporate into comprehensive planning process





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3. Engage stakeholders, public, and communities

- Provide stakeholders with a “tool kit” to engage in comprehensive planning processes
 - Science synthesis of special places and their benefits
 - Handbook on how planning works and how to get involved



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Proposed Next Steps

- Develop regional guidance and principles for supporting land management for healthy fisheries
 - Coordinate effort between Goal Teams to directly link principles of protection to fisheries management and outcomes.
 - Example:
 - **Impervious Cover:** Maintain rural landscapes limiting impervious cover in a watershed to no more than 5%.
 - **Justification:** Traditional fisheries management approaches (harvest limits and stock enhancement) are most effective in rural landscapes. There are fewer habitat perturbations impacting sensitive fish life stages. Because of this stock assessment results that assume constant natural mortality are effective tools for managers to use to set harvest targets and limits.
 - **Management Outcome:** Sustainable stocks and reduced user conflicts.
- Strategically target and coordinate multiple state and federal assistance, information and resources to protect the most ecologically valuable resources threatened by development



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What can VA CZM partners do?

- Help target and apply tools such as Special Area Management Plans
- Assist in developing the “tool kit” and building active participation in planning process