

CLIMATE CHANGE on the VIRGINIA COAST

FISH and WILDLIFE IMPACTS and SOLUTIONS

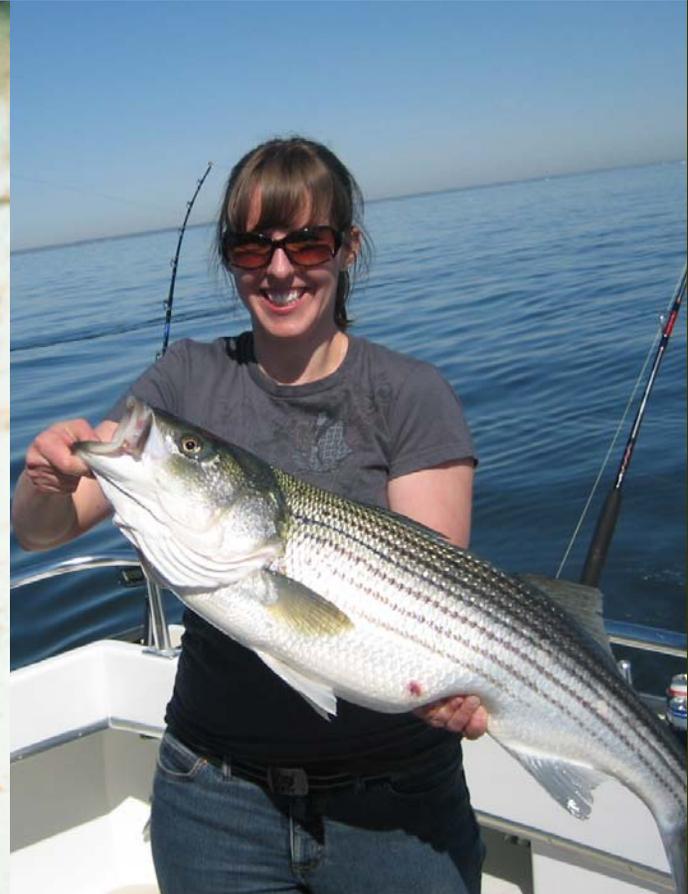


*Virginia Coastal Zone Partners Workshop
December 7, 2007
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The Virginia Coast is a Global Warming “Hot Spot”

- Temperature
- Sea Level
- Precipitation/River-flows
- Hurricanes and Tropical Storms

Global Warming Threats to Virginia's Coastal Fish and Wildlife



Triple Threat to Waterfowl

1. Drier Prairie Pothole Region

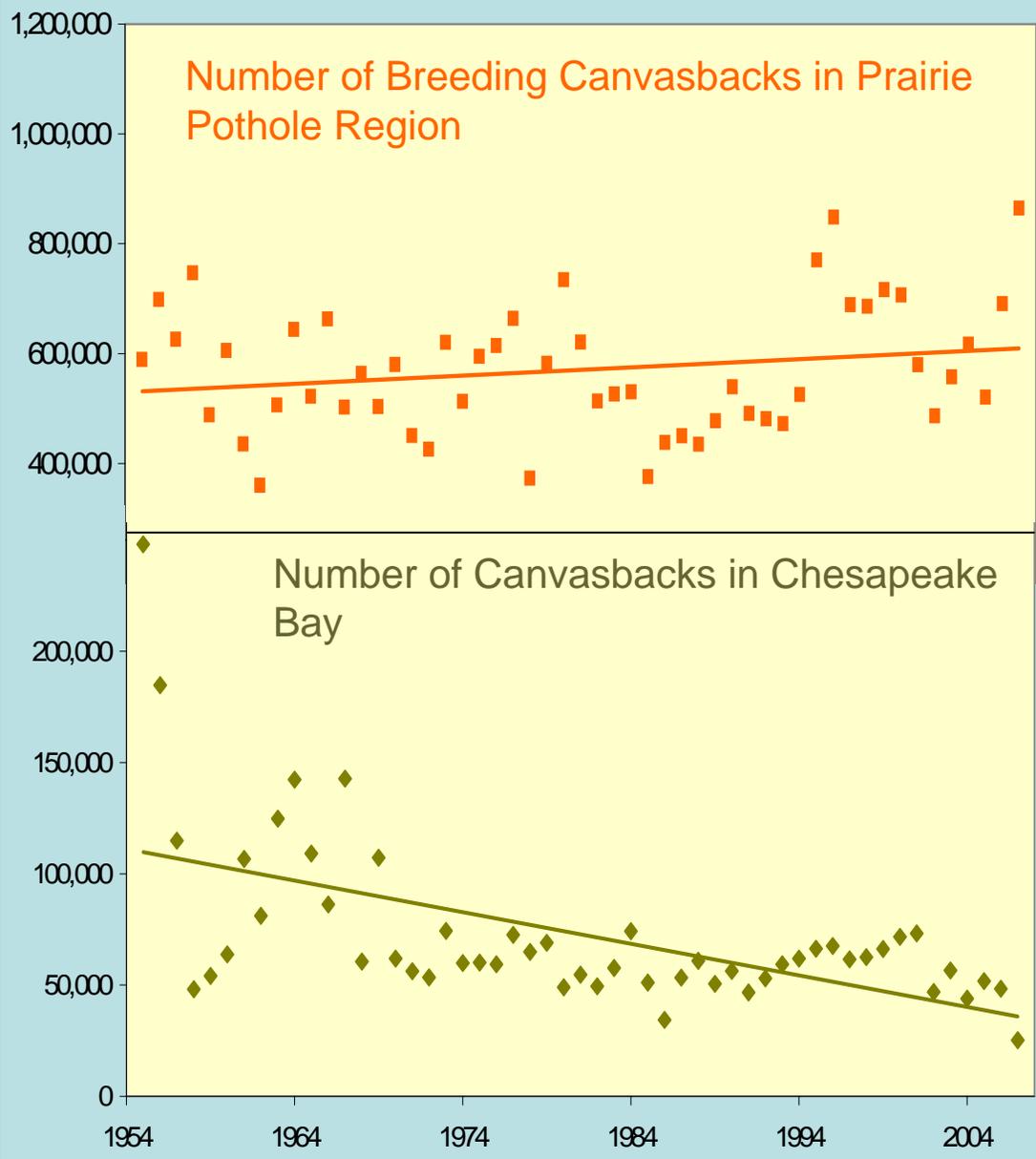
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stopping

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wintering habitat





Dryer Prairie Pothole Region



Waterfowl short-stopping

Blackwater N. W. Refuge



Loss of shallow-water wintering habitat

Saltwater Intrusion



Submerged Aquatic Vegetation



Loss of shallow-water wintering habitat

Coastal “Protection” Will Worsen Impact on Habitats

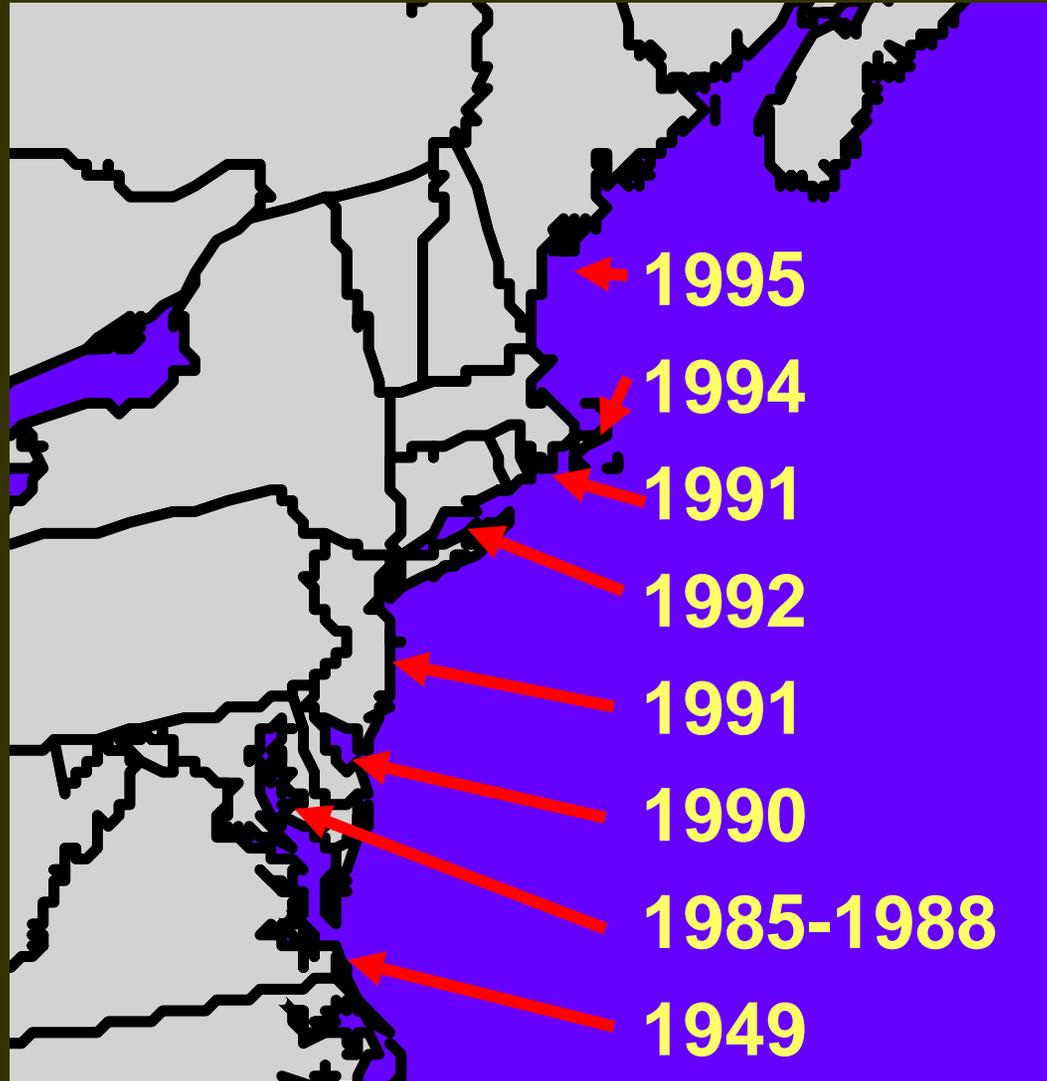


Virginia Coastal Impacts

- Altered composition of species
- Worsening dead zones and harmful algal blooms
- Enhance marine diseases
- Encourage expansion of harmful invasive species



Perkinsus marinus - Dermo



Oystering



Fisheries



Changing the Forecast for the Virginia's Coasts

- Reduce global warming pollution
- Provide conservation funding
- Manage the land and fish and wildlife to account for global warming



Reduce Global Warming Pollution 2% per year annually to achieve 80% reduction by 2050



Provide conservation funding

Use 10% of revenue from the
auction of carbon credits
for fish and wildlife
conservation



MANAGE THE LAND IN THE FACE OF GLOBAL WARMING

(1) Discourage extensive coastal development and shoreline armoring



MANAGE THE LAND IN THE FACE OF GLOBAL WARMING

(2) Account for global warming in land conservation and habitat protection



Wetlands Restoration



Stream Restoration



(3) Redouble efforts to manage storm-water runoff

- Increase support of non-structural approaches
- Account for increases in extreme precipitation events
- Expand wetland/stream buffers



The Time for Action is Now

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For more information and report copies visit <http://www.nwf.org/globalwarming>



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