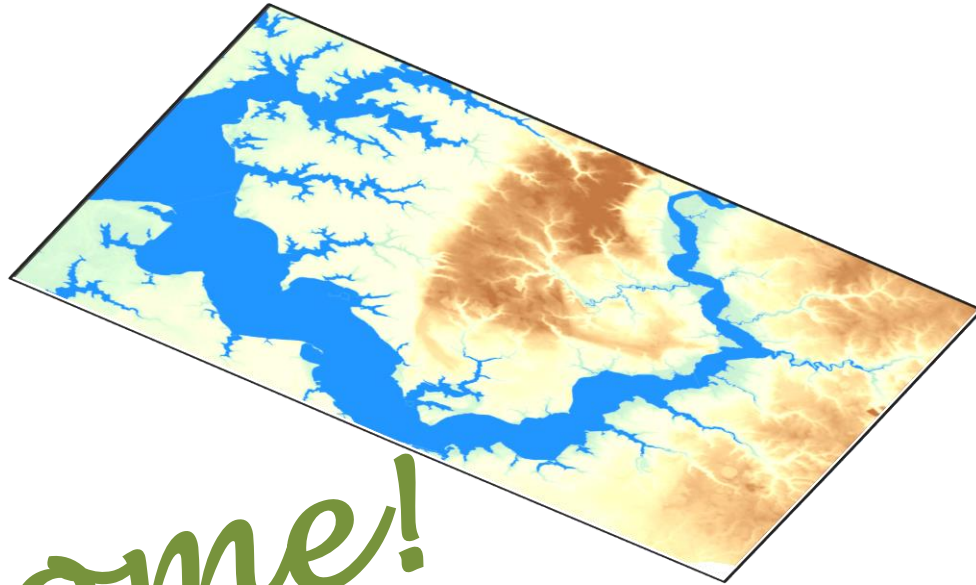


Revisiting Coastal Land-Water Interactions: The Triplet Connection



Welcome!

STAC Workshop

23-24 May 2018

Hood College, Frederick MD

The Triblet Connection: Workshop Steering Committee

- **Kathy Boomer**, The Nature Conservancy •
- **Walter Boynton**, UMCES Chesapeake Bay Laboratory •
 - **Rachel Dixon**, Chesapeake Research Consortium •
 - **Drew Ferrier**, Hood College •
- **Marjy Friedrichs**, Virginia Institute of Marine Sciences •
 - **Andrew Muller**, US Naval Academy •
 - **Diana Muller**, Maritimas •
 - **Kevin Sellner**, Hood College •

Thank you x 1000!

The Triplet Connection: Workshop Sponsors

Thank you!



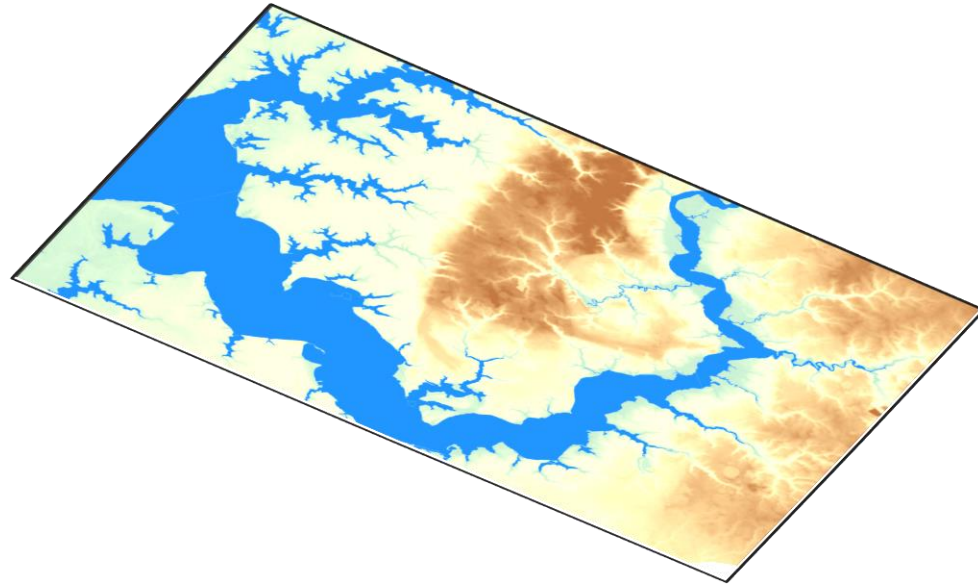
HOOD COLLEGE
Center for Coastal and
Watershed Studies



The Nature
Conservancy
Protecting nature. Preserving life.



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The Triblet Connection: Workshop Evolution

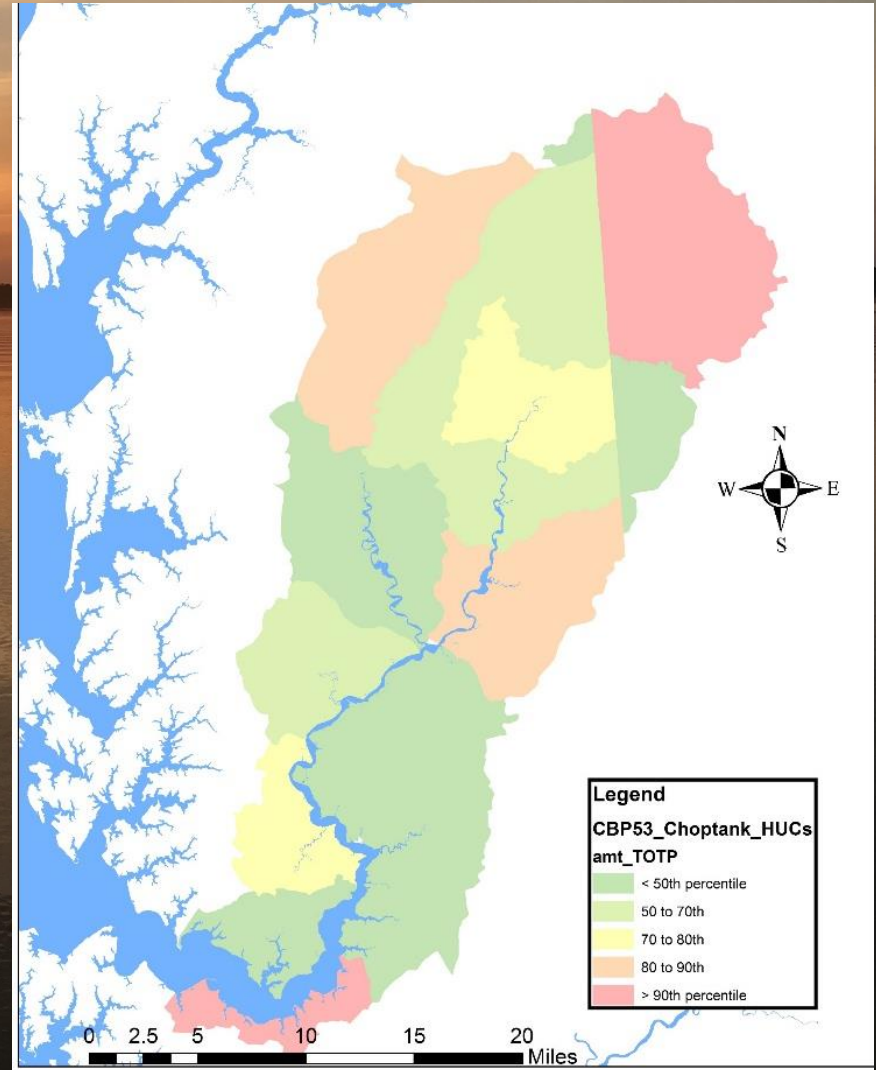
USDA Delmarva RCPP Overview:

- Direct an additional \$5M+ for priority conservation practices to Delmarva
- Demonstrate a collaborative approach for achieving water quality and habitat goals and supporting local agriculture
- Advance conservation practice outcomes by promoting collaborative science

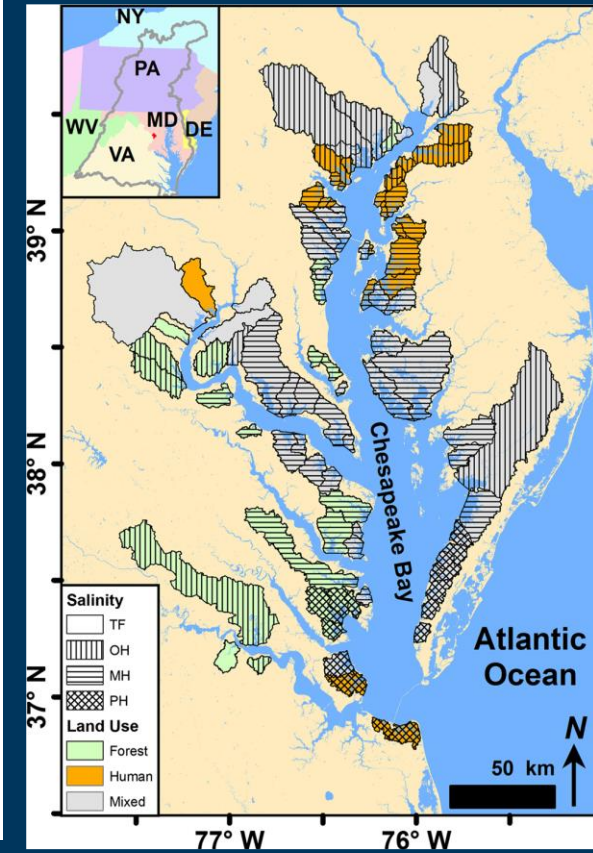
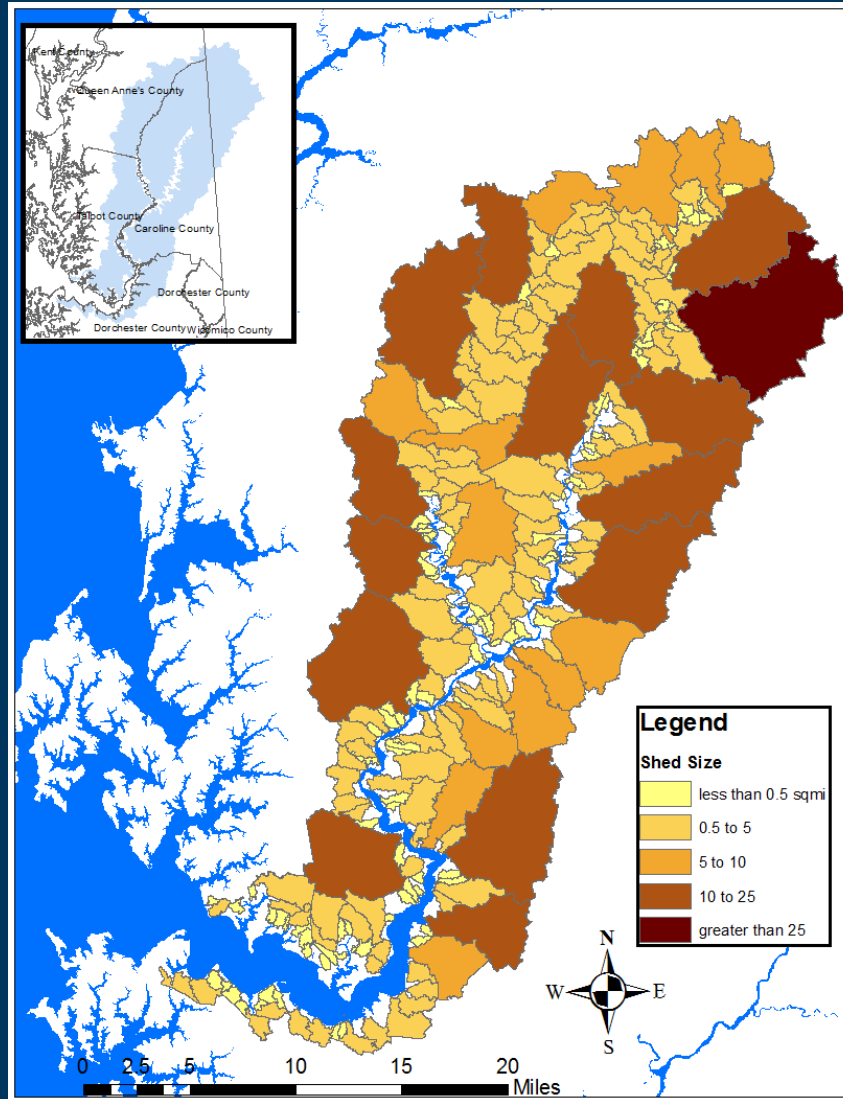
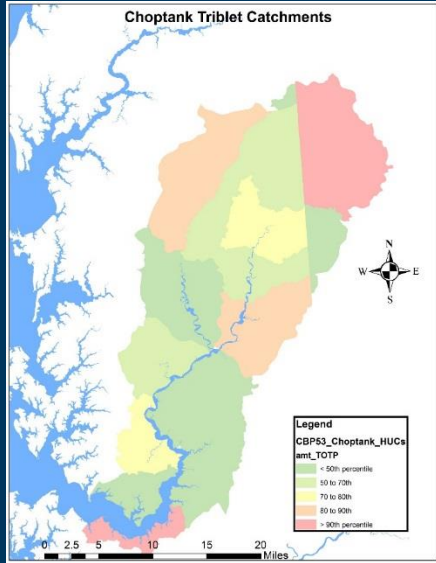
Goal: Bay Habitat Restoration



Goal: Bay Habitat Restoration



The Triblet Connection: Management Context



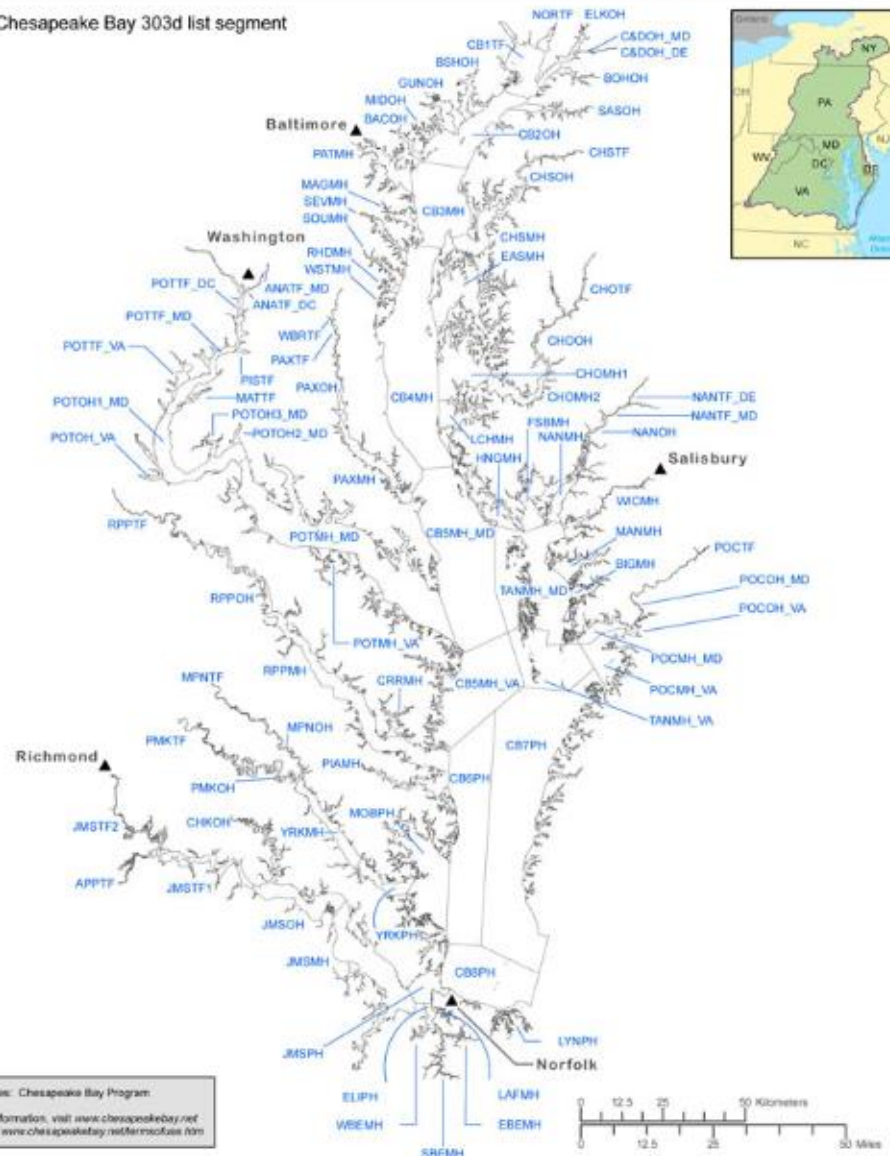
Chesapeake Bay Segmentation Scheme

(For 303d listing - 92 segments)



Chesapeake Bay Program
A Watershed Partnership

□ Chesapeake Bay 303d list segment



Data Source: Chesapeake Bay Program
For more information, visit www.chesapeakebay.net
Disclaimer: www.chesapeakebay.net/forms/ctuse.htm

The Triplet Connection: Workshop Goals & Objectives

- Define triplets
- Describe the role of triplets as river-estuary linkages
- Evaluate triplets as landscape units for watershed and coastal management
 - Discuss relevance/utility for CBP regulatory model.
- Outline critical knowledge gaps and research opportunities 1) to improve our understanding of river-estuarine linkages; and 2) refine tools/mapping strategies for watershed and coastal management

The Triblet Connection: Agenda Overview

- **SESSION I: Evidence of Triblet Linkages**

Kevin Sellner (Hood), Michael Mallin (UNC),
Denise Sanger (SCDNR), Andrew Muller (USNA)

- **SESSION II: Triblets from an Estuarine Perspective**

Larry Sanford (UMCES), Lora Harris (UMCES), Harry Wang (VIMS)

- **SESSION III: Triblets from a Watershed Perspective**

Diana Muller (Maritimus), Tom Jordan (SERC), Kathy Boomer, (TNC)

- **SESSION IV: Additional Evidence/Insights of Triblet Roles**

Ray Najjar (PSU), Jeff Cornwell (UMCES), Vicki Blazer (USGS),
Margaret Muholland ODU), Liz Van Dolah (UMD)

- **Facilitated Discussion:** Lisa Wainger (UMCES), Lew Linker (USEPA)

The Triblet Connection: Key Questions

What have we learned that informs a changes in science?

- How should triplets be defined?
- How do land-to-water, triplet interactions influence Bay water quality conditions?
 - What are key drivers of triplet health and variation in triplet health (i.e., relative influence of different triplets on sub-estuarine health)?
 - How do we predict effects of watershed and coastal management, sea level rise, and climate change?
 - Alternative models?

The Triblet Connection: Key Questions

How can what we've learned advance management?

- Can a combination of advanced watershed and coastal management in targeted triplets provide disproportionate benefits to restoring Bay health?
- Implications to aquaculture, coastal management, or watershed management?
- Implications to CBP model's segmentation strategy?

What new research needs have been identified?

- Key Knowledge and Research Gaps related to Triplets?

Ground Rules:

X

“We don’t enough data.”

- Share your expectations based on your expert background

X

“No, it doesn’t work like that”

- * Well, it could work like that, OR maybe the system responds like this: _____