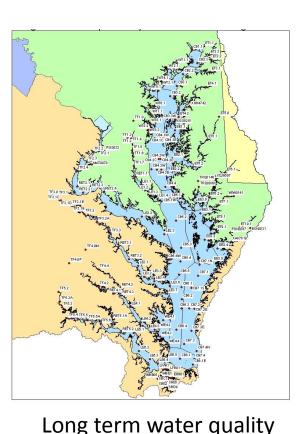
BASINs: Customer survey of expectations regarding what they need from the Chesapeake Bay monitoring (and Modeling) programs

Peter Tango with Lea Rubin and Amanda Pruzinsky Modeling WG meeting July 22, 2014

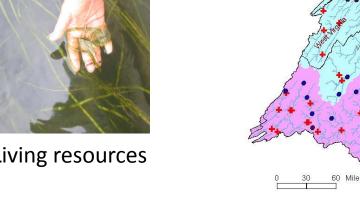
BASINs = Building and Sustaining **Integrated Networks**



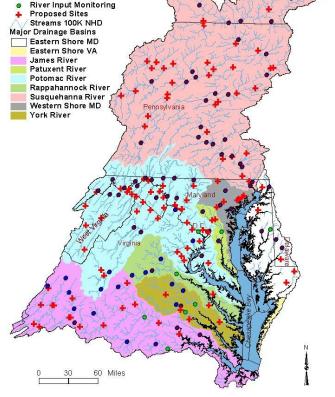
Shallow water



Living resources



Tidal Monitoring Network



Active and proposed non-tidal water-quality

NT WQ Sampling Locations Primary Secondary

monitoring network sites in the Chesapeake Bay Watershed

Watershed Monitoring Network

BASIN Overview – Three Phase Process (May 2013-Feb 2015)

□ **Phase I (complete)** – Monitoring Review: Sustaining the Monitoring networks under a Federal Funding Gap in Program Support

BASIN Overview – Three Phase Process (May 2013-Feb 2015)

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- Phase II (in progress):
- **Panel reviews** 1. Evaluation of a sustainable business model to support Chesapeake Bay completed and basin monitoring programs,
 - In Progress
- 2. Considering alternative approaches to the operation and design of the tidal and nontidal monitoring networks, and
- Under development
- 3. Assess the primary products that the monitoring program is expected to deliver to its customers.
- Final Product of Phase II BASINs Report (Feb 2015)

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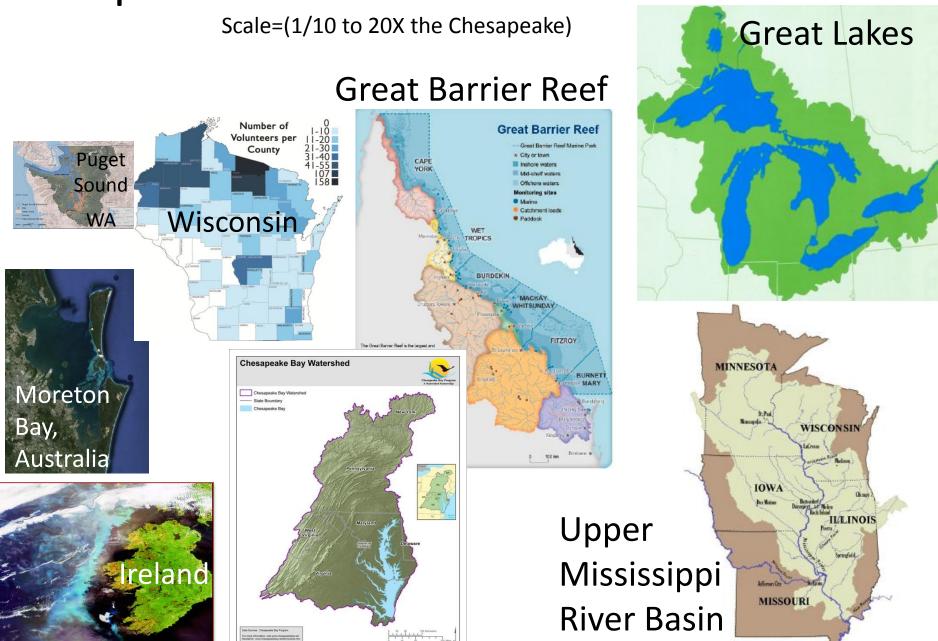
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- □ Final Product of Phase II BASINs Report (Feb 2015)
- Phase III (timeline TBD) Expanded Monitoring in Support of the New Chesapeake Bay Agreement beyond Water Quality goals

Recap: Phase II BASINs Case Studies



Recap: Operations models across programs, including innovations and communications

Chesapeake:

 Highly evolved reporting, report cards

Case studies:

- Technical capacity through agencies (all)
- Citizen scientists engaged (all)
- Vital Signs Progress of Recovery Efforts (Puget Sound)



BASINs Phase II: Customer Expectations Assessment

- The Chesapeake Bay Program (CBP) is reviewing approaches to ensure the long-term sustainability of its monitoring networks.
- As part of the process, STAR is researching customer expectations of the monitoring networks.
 - The survey could be useful for the Modeling WG to gain feedback on its products as well.
- STAR requests input from the Modeling WG on how to include modeling related questions to this survey and a specific intended audience list.

Goals of the Customer Expectations <u>Discussion:</u>

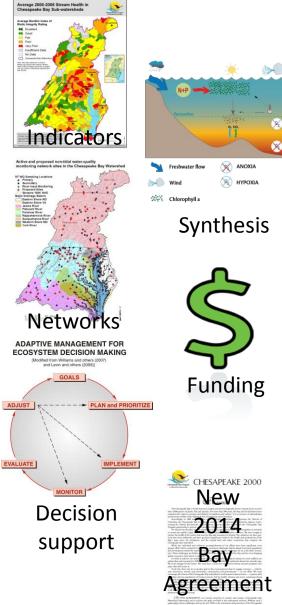
- To gain feedback on the usefulness of the products derived from the CBP Monitoring Networks.
- Gain a better understanding of the Goal Team decision making process in order to better tailor our monitoring products to fit their needs.
- To ascertain what the perceptions of the broader CBP community has regarding the utility of monitoring data in guiding the restoration efforts of Chesapeake Bay.

Audience

- Tier 1 Key Audience
 - WQ Goal Team state and federal water-quality managers responsible for improving quality of Bay and Watershed Waters
 - GIT Chairs
 - State Agency Resource Managers (contact one or two representatives from each organization MDE, MDNR, PA DEP, VADCNR, etc.)
- Tier 2 Secondary Audience
 - STAR (including WGs), CBP Communication Team
 - STAC, LGAC, and CAC
 - Academic Partners
 - Watershed groups (CBF, Riverkeepers Network, Blue Water Baltimore, Alliance for the Chesapeake Bay)

Customer Expectations Survey outline

- Use, relevance, needs evaluated regarding Bay and Watershed Health Indicators in your work.
- Chesapeake Bay Water Quality Synthesis Products use, relevance, needs supporting your work.
- Evaluating use and needs of Monitoring Networks in the Chesapeake Bay and Basin.
- Request their directions for monitoring funding priorities on any future funding available
- Provide a sense of the desired role for using Nontraditional Partner data in decision-making.
- For each of the new Bay Agreement goals how can the Chesapeake Bay Program monitoring network and synthesis products be improved to help draft the management strategies, track the progress, and meet the goal?



Customer Expectations Survey outline:

Potential Expansion Opportunities

- Use, relevance, needs evaluated regarding Bay and Watershed Health Indicators in your work.
- Chesapeake Bay Water Quality (and modeling) Synthesis Products use, relevance, needs supporting your work.
- Evaluating use and needs of Monitoring Networks in the Chesapeake Bay and Basin.
- Request their directions for monitoring (and modeling) funding priorities on any future funding available
- Provide a sense of the desired role for using Nontraditional Partner data in decision-making.
- For each of the new Bay Agreement goals how can the Chesapeake Bay Program monitoring network and (monitoring and modeling) synthesis products be improved to help draft the management strategies, track the progress, and meet the goal?

Thank you ©

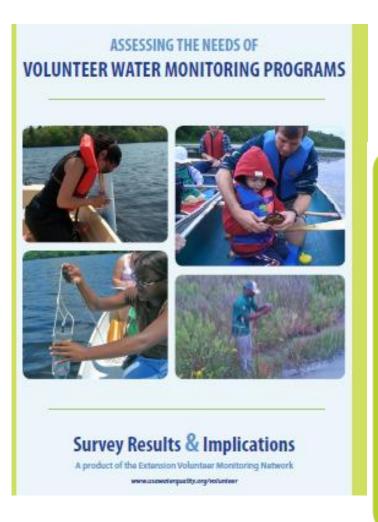
Insights from Recent Publications: e.g. Roy et al. 2012



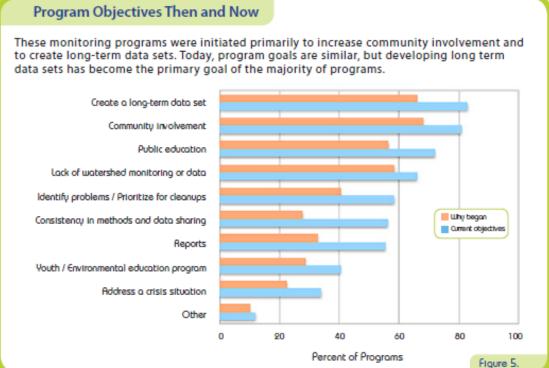
- 234 projects evaluated
- 30 selected for case studies

"Citizen science has vital roles in scientific research and engagement/education, but it also has the potential to help meet the demands of environmental/biodiversity monitoring, giving it clear relevance to policy."

Insights from Recent Publications: e.g. Green et al. 2013



- 103 respondents
- 41 states
- 94 unique programs



Emerging Monitoring Concerns

Monitoring the effects of climate change and stormwater topped the list of potential endeavors for programs. To facilitate resource and knowledge sharing, a table identifying programs that address the topics listed in below is available at:

http://www.usawaterquality.org/volunteer/

