

Growing and Improving: (developing) Recommendations for Chesapeake Bay SAV Watchers

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About Me

- Frederick, MD
- 2020 graduate - Juniata College
- Background with participatory/citizen/community science orgs
- 2nd year MA student at Virginia Institute of Marine Science
- Chesapeake Bay National Estuarine Research Reserve in VA



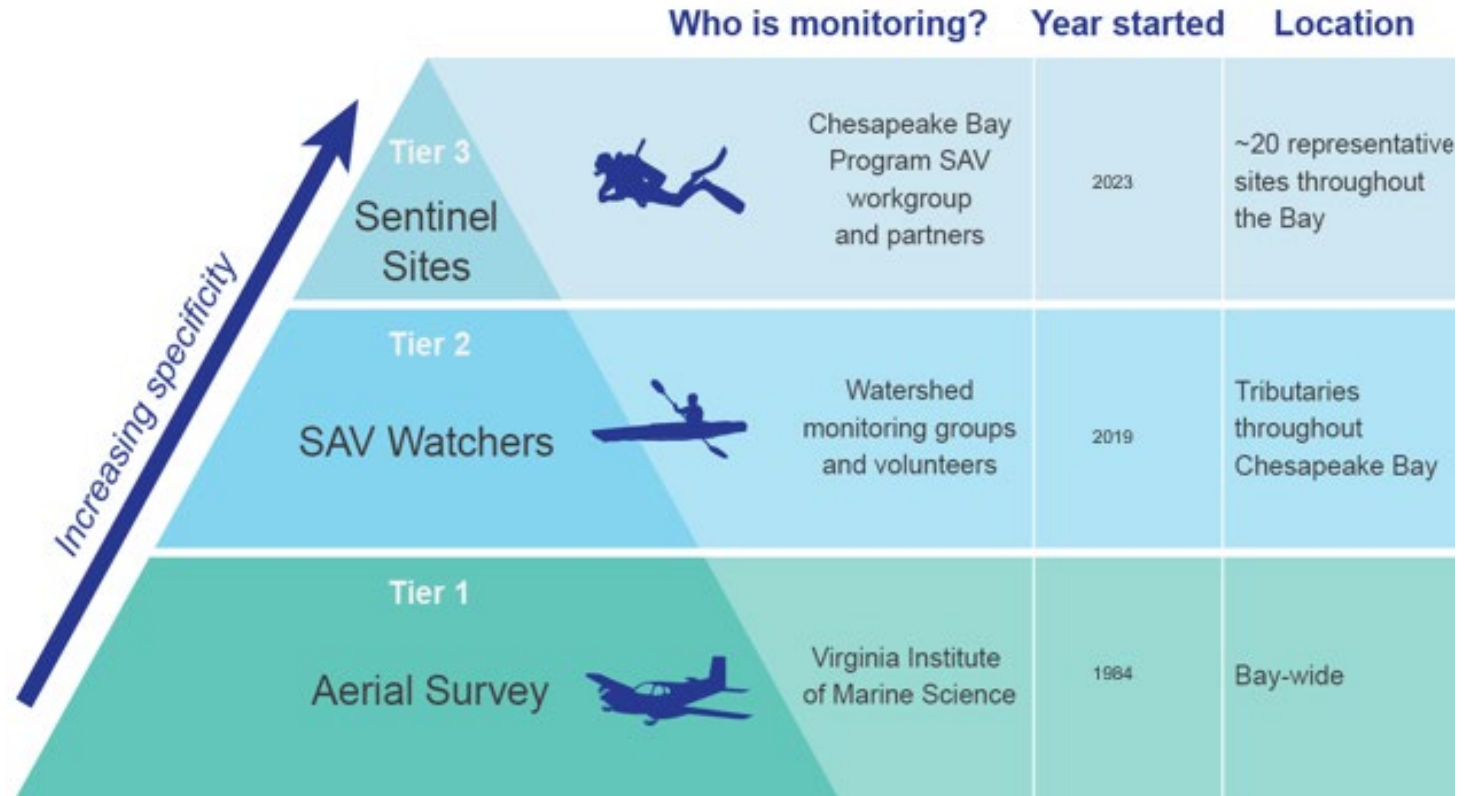


A project was seeded...

SAV Watchers Overview

→ Provide volunteer scientists with an engaging and educational experience with SAV while also generating useful data for Bay scientists and managers.

→ Uses “train-the-trainer”



Program Evaluation: Main Questions

- 1) What is the **scientific literacy** of SAV Watcher trainers and volunteers?
- 2) What is the **effectiveness** of the program, including successes and areas for improvement?
- 3) What are the anticipated **challenges of expansion** into VA?



Photo: SAV Watchers

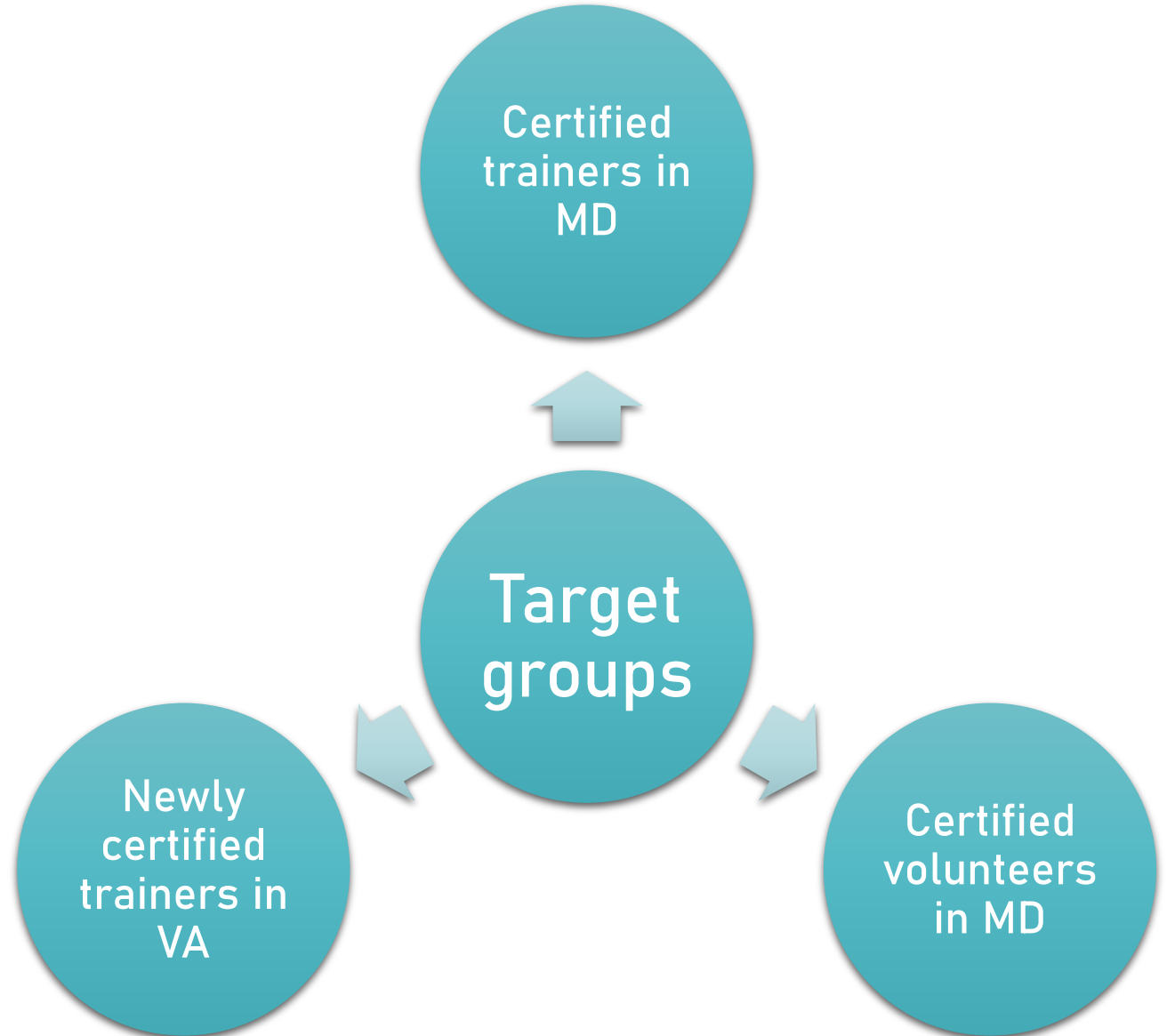
Learn & Observe



Methods: Focus on Human Perspectives

Mixed methods:

- ✓ Surveys
- ✓ Focus groups/group interviews



The Case for Human Perspectives

- Must revisit program goals – with ALL partners – to ensure:
 - ✓ Expectations met
 - ✓ Meaningful interactions
 - ✓ Effective engagement
- For program expansion/building, it maximizes:
 - ✓ Community support
 - ✓ Engagement
 - ✓ Overall scientific benefit



Surveys

- Question development based on:
 - Other program evaluations and literature
 - Previous SAV Watchers questions
 - Observation of a trainer's course
- Validation of survey instruments (4 – 5 reviewers)
- Three content areas:
 - Background
 - Scientific literacy (analyzing volunteers' scientific observation skills)
 - Program evaluation
- Administered online via [Qualtrics](#) (Dec – Jan)
- Analysis as appropriate in R



Photo: CBNERR-VA/Erin Shields

A close-up, underwater photograph of seagrass. The blades are long, thin, and green, with some showing signs of wear or damage. They are set against a light blue, slightly hazy background, suggesting a shallow water environment.

Focus Groups/ Group Interviews

- Questions, structure, and approach informed by survey results
- 5-8 people per group
- Facilitated via Zoom (Jan – Feb)
- Recorded digitally and transcribed with Otter.ai
- Thematic coding will be done with an inductive approach in MaxQDA
 - Coding → “free flowing text into a set of nominal variables”
 - Inductive approach → themes emerge from text

(Bernard, 2018)

Additional Strategies

- Assessment rubric → describing project impacts
 - Adapted by Bonney et al. 2009 from a framework for evaluating impacts of informal science education projects
 - Focused on participatory science to compare outcomes
- Interview with program coordinator
- Use network and experiences to gauge groups and identify how data gaps could be filled



Products

1. Evaluation report with suggestions for improvement
2. General framework for other volunteer monitoring programs to evaluate their own efforts
3. Written strategy for expansion into Virginia



Thank you! Questions?

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