


# Proposed STAC 2021 Workshop “Temperature Rise: Implications for Chesapeake Bay Region Water Quality and Living Resource Management”

## PROJECT DEVELOPMENT TEAM:

BILL DENNISON, UMCES, RICH BATIUK, PETER TANGO, GARY SHENK, LEW LINKER, JULIE REICHERT-NGUYEN NOAA CLIMATE RESILIENCY, BRUCE VOGT NOAA FISHERIES, SALLY CLAGGETT, ANNE HAIRSTON-STRANG MD DNR-FORESTRY, JUDY OKAY VA DOF CONSULTANT, REBECCA HANMER;  
SUPPORT FROM SCOTT PHILLIPS, TOM SCHUELER AND JEREMY HANSON

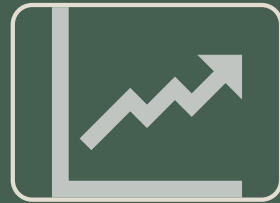


We know that  
temperature is  
rising, and this  
affects both  
nontidal and  
tidal living  
resources.

But we have water quality standards, water  
quality and habitat restoration strategies, and  
fisheries management plans based on a constant  
temperature regime.

We know that temperature is rising, and this affects both nontidal and tidal living resources.

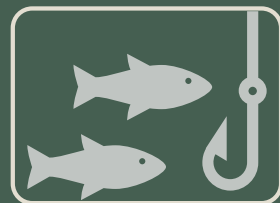
Thus, we need a workshop to understand how...



potentially to modify WQS



BMPs affect water temperature



to factor the new knowledge into our restoration strategies and fisheries management plans.



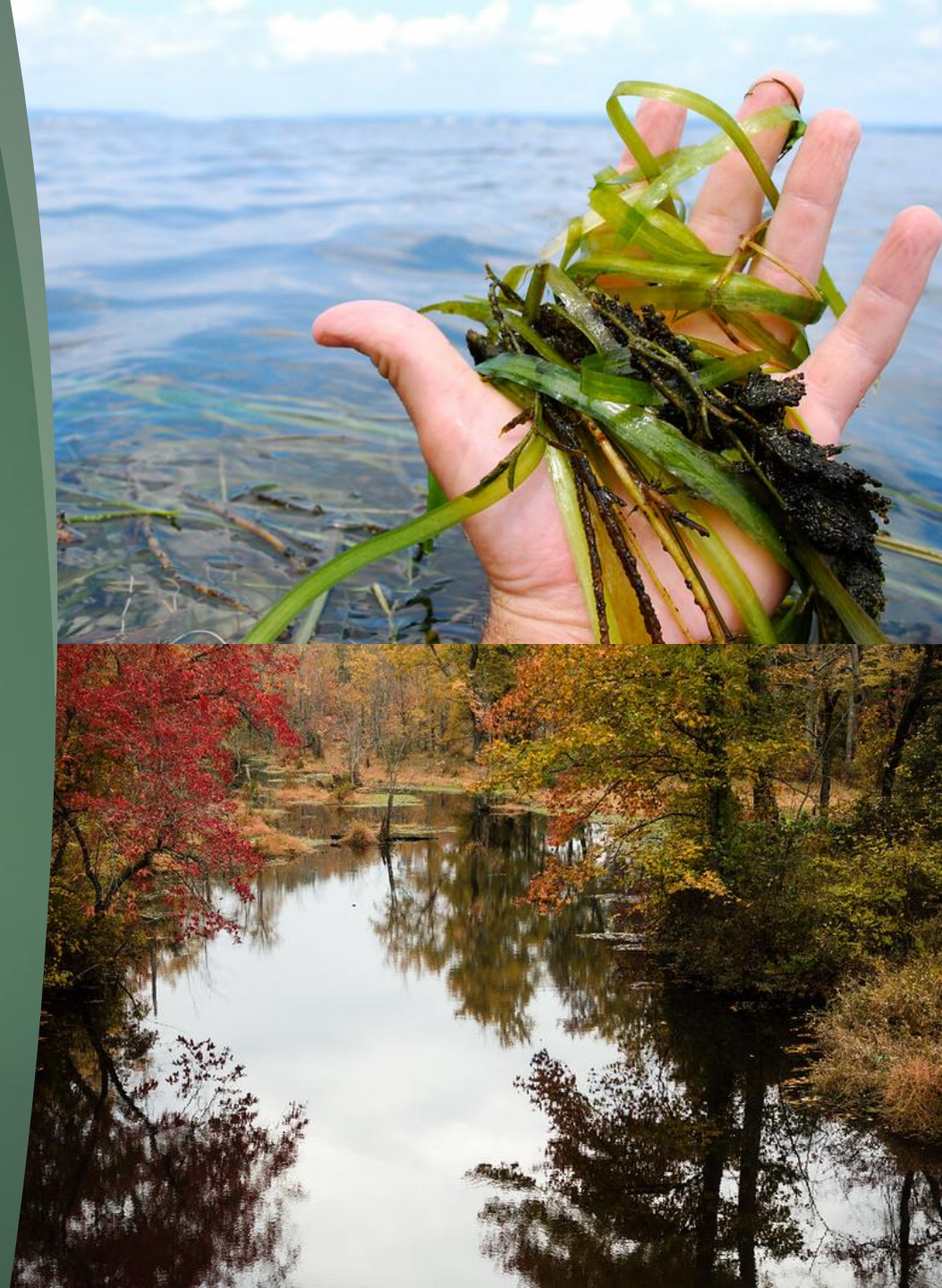
Water temperature rises in the Bay already affect eelgrass, and NOAA is studying fisheries impacts.




USGS monitoring of nontidal waters shows alarming ratio of water to air temperature increase.



Water temperature affects all chemical and biological processes of aquatic organisms, and how pollutants behave.





Preparation over the next nine months will build on the growing body of Bay Program climate studies and lay the groundwork for a successful workshop.

Information  
to be  
Assessed

- Results of modeling and monitoring temperature
- Temperature effects on watershed living resources

Preparation over the next nine months will build on the growing body of Bay Program climate studies and lay the groundwork for a successful workshop.

Tools to  
be  
Assessed

- Tidal Water Quality Standards
- BMPs in Phase III WIPs
- Fisheries Management
- Habitat Restoration Strategies

Climate Resiliency:  
New Bay Temperature  
Indicator is needed

## Phase 1

- Ask CBP workgroups to synthesize their work relating to temperature effects and tools. Pre-workshop summaries of key topics to be presented in short YouTube videos.



## Phase 2

- One- day STAC workshop, with concurrent tracks addressing tidal and nontidal issues and tools respectively.

## Phase 3

- After workshop, project steering committee to develop draft synopsis...leading to one-day virtual community workshop to complete findings and recommendations.



Emphasis will be on Program management actions.



Rising water temperatures will be a continuing challenge.

The workshop will organize the Program's understanding of the ecological impacts of temperature increases...

And show how we can adapt tools for water quality, habitat and fisheries management to face this challenge and meet the Program's goals.

