Climate Resiliency Activities Discussion

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CRWG Meeting

Julie Reichert-Nguyen, Climate Resiliency Workgroup Coordinator
NOAA Chesapeake Bay Office

Presentation Outline

- Do you agree with the modifications to the logic factors?
- Which actions can we incorporate DEIJ considerations?
- Do you agree with the primary actions for the workgroup to focus on during the next 2 years? Are there any key actions missing?
- Should any of the secondary climate-related activities be considered a primary action?
- Are there member organizations or partner resources that can support these actions and activities?

Logic Factor Modifications

- Monitoring and Assessment - Scientific Capabilities: Merged the multiple stressors factor with this one.
  - Reasoning: CRWG doesn't have the capacity to tackle other stressors - other workgroups in CBP are doing so.
  - Included language that interactions between climate and non-climate stressors are important

Logic Factor Modifications Cont.

Scientific Capabilities: New suggested language

The scientific capabilities to estimate, project, model and monitor ecosystem changes and impacts as a result of climate change are complex just emerging and resource intensive. Additionally, impacts are exacerbated by non-climate stressors (e.g., land-subsidence, land use change, growth and development). Appropriate science and modeling of climate and non-climate related stressors are necessary for Chesapeake Bay Program partners to properly address climate impacts during policy planning and adaptation efforts.

Logic Factor Modifications

- Adaptation - Collaboration: Modified text to focus on maximizing limited resources and providing strategic adaptation approaches
  - Reasoning: Consistent “one size fits all” approaches are unlikely. While ideal for tracking, consensus likely unattainable.
  - It would seem the CRWG is more suited to facilitate collaboration that leverages resources, in addition to reaching agreement on best practices related to the approaches.

Logic Factor Modifications Cont.

Collaboration: New suggested language

The many and diverse stakeholders and organizations that make up the Bay Program are a strength, but it also causes collaboration challenges that must be addressed in order to maximize limited resources and provide strategic adaptation approaches across the watershed.

Need to achieve strategic collaboration that maximizes limited resources; need consensus on strategic adaptation approaches that fit the impact and area of concern

Logic Factor Modifications

- Adaptation - Capacity: Incorporated variable approaches in this factor instead of it being its own factor
  - Reasoning: Capacity could become an issue depending on how many approaches need review/guidance
- Adaptation - Guidance: Incorporated text from variable approaches in this factor
  - Reasoning: Variability in institutional responses affect the development of guidance.

Monitoring & Assessment Primary Actions

Action #	Description (Any DEIJ connections?)	Performance Targets	Who?
1.1	**Design monitoring and maintenance protocols to report on and implement new Chesapeake Bay Program (CBP) Climate Change Indicators and their corresponding data sets**	a. Assess utility of proposed new climate indicators b. Develop a climate indicator framework c. Develop indicator(s) - Bay Water Temperature (already indicated as a priority). d. Support the proposed 2021 STAC Workshop, "Rising Watershed and Bay Water Temperatures—Ecological Implications for Ecosystem Processes Influencing Stream, River, and Estuarine Health."	Lead: CRWG, STAR, Status and Trends Workgroup, relevant workgroups, relevant CBP partners NCBO: lead for Bay Water Temperature Change Indicator

Monitoring & Assessment Primary Actions

Action #	Description (Any DEIJ connections?)	Performance Targets	Who?
1.2	**Maintain monitoring and maintenance protocols for the existing suite of CBP Climate Change Indicators and their corresponding data sets**	a. Assess utility of existing climate indicators. Archive ones that are not included in prioritization decisions by relevant workgroups/Mgmt Board b. Determine updating timeframes c. Develop maintenance plan with Status and Trends d. Explore collaboration with USGS PA Water Science to connect their stream temperature compilation project with updating the stream temp indicator	Lead: CRWG, STAR, Status and Trends Workgroup, relevant workgroups, relevant CBP partners

Monitoring & Assessment Primary Actions

Action #	Description (Any DEIJ connections?)	Performance Targets	Who?
1.3	**Increase capacity to better understand sea level rise impacts to habitats and their ecosystem services**	a. Partnered on GIT-funding project synthesizing shoreline, sea level rise, and marsh migration data to inform wetland restoration targeting	Lead: Wetlands Support: CRWG

Adaptation Primary Actions

Action #	Description (Any DEIJ connections?)	Performance Targets	Who?
1.4	**Develop a research agenda and provide estimates of associated costs to inform a potential funding plan on climate change impacts to BMP performance (function, design, placement)**	a. Coordinate with WQGIT in identifying BMPs where climate change research is most needed b. Review Virginia Tech BMP Climate Resilience Assessment Report (STAC and NOAA-funded) c. Work with the Management Board to identify alternative options (e.g., jurisdictional help) in supporting a funding plan	Lead: CRWG Support: MB, WQGIT, NCBO

Adaptation Primary Actions

Action #	Description (Any DEIJ connections?)	Performance Targets	Who?
1.5	**Track progress in climate resilience efforts and help localities identify climate resilience actions that can be taken**	a. Support FY19 GIT-Funded project, "Bay-wide Climate Resilience Scorecard for Watershed Communities."	Lead: Rand, CRWG Support: CBP Comms Team, Jurisdictions

Adaptation Primary Actions

Action #	Description (Any DEIJ connections?)	Performance Targets	Who?
1.6	**Assist stakeholders with "shovel-ready" design plans for adaptation projects**	**a. Support the Habitat GIT in the FY19 GIT-Funded project, "Targeted Local Outreach for Green Infrastructure in Vulnerable Areas."**	Lead: Habitat GIT Support: CRWG
1.7	**Expand resource capacity to implement climate adaptation projects**	**a. Identify and provide assistance on 1-2 proposals with local/regional groups (e.g., consult on project ideas, draft/review text by subject matter experts, etc.) related to applying for external funding that would allow for the implementation of climate adaptation projects.**	???

Adaptation Primary Actions

Action #	Description (Any DEIJ connections?)	Performance Targets	Who?
1.8	**Increase understanding of science needs to apply finance strategies related to blue carbon sequestration and resilience crediting**	**a. Explore possible STAC workshop to assess available blue carbon information and identify science gaps in applying existing blue carbon crediting protocols for wetland and SAV restoration projects in Chesapeake Bay.**	Lead: CRWG, Support: Wetlands, SAV