
Resource Status for the Climate Resiliency Workgroup's Logic and Action Plan

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Purpose of Discussion

- The Climate Adaptation, Monitoring and Assessment Logic and Action Plan for the 3rd biennial SRS cycle was accepted at the June 10th Management Board meeting.
- Management Board Request of CRWG: Identify which actions CRWG will not be able to accomplish in 2021-2022 Logic and Action Plan and discuss potential resource solutions that can support progress on the climate resiliency actions.
- Currently there are inadequate resources to accomplish all actions in plan in 2 years - EC Climate Directive adds another level of uncertainty

Resource Needs for Discussion

- CRWG analyzed the current action plan and identified resource gaps under three separate categories:
 - Climate coordination activities across the various CBP GITs and workgroups
 - Climate technical activities that require specialized data analysis expertise
 - Climate resilience capacity-building activities that require expertise in natural infrastructure and funding opportunities

Key for Status of Actions in CRWG Logic and Actions Plan

Projected Status (2021-2022)

Unlikely to make progress with current CRWG resources

Relying heavily on partners to make progress

Likely to make progress with current CRWG resources

Summary of Climate Coordination Actions Unlikely to Make Progress with Current CRWG Resources

Cross Workgroup Efforts

- Coordinate with the Modeling Workgroup and WQGIT to support the application of TMDL climate change projections and WIP narratives (1.5)
- Support local engagement and social assessment projects and workshops (2.4, 2.5, 2.6c)

Science Application

- Support STAR efforts to promote use of climate science data in existing tools (1.7)
- Connect blue carbon science review with groups engaging in implementing financing approaches (2.3b)

Climate Coordination Resource Option

- Management Board endorsement of a **full-time CRWG staffer**
 - CRWG staffer would assist with cross-workgroup coordination (e.g., local engagement and social science requests, forestry-related climate efforts in connection with DEIJ, application of TMDL climate model) and coordinating the use of climate science data in existing tools

Summary of Climate Technical Actions Unlikely to Make Progress with Current CRWG Resources

Climate Change Indicators

- Refine implementation plans for prioritized climate change indicators and identify partners to support work (1.1b)
- Update existing prioritized indicators on Chesapeake Progress (1.1)
- Develop climate change indicators with clear management purposes (1.2)
 - Bay Water Temperature Change Indicator in connection with fisheries management (a)
 - Refinement of Stream Temperature Change Indicator in connection with Healthy Watersheds/Brook Trout (b)
 - Refinement of Sea Level Rise Indicator related to wetland loss/marsh migration (d)

Climate Technical Resource Options to Consider

- Need Management Board support in identifying **contract or support within CBP program** (federal/state agencies or universities) for technical analyst(s)
 - Climate Change Indicators require specialized data analysis expertise
 - Technical Analyst would assist with development of prioritized climate change indicators and approach to track climate resilience progress

Summary of Capacity Building Actions Unlikely to Make Progress with Current CRWG Resources

Nature-Based Resilience Activities

- Assist with capacity building (2.2)
 - Identify federal, state, and NGO partners providing technical and financial assistance for adaptation projects and connect to groups implementing projects (b)
 - Explore funding for document/decision matrix that consolidates guidance and best practices for nature-based adaptation projects (c)

Climate Resilience Capacity Building Resource Options to Consider

- Need Management Board support in identifying **contract or support within CBP program** (federal/state agencies or universities) for person(s) with nature-based infrastructure and funding knowledge
 - Capacity-building for nature-based resilience activities require expertise in site selection, technical knowledge of practices, funding sources, and local governments/planners coordination.
 - Natural infrastructure expert would assist in compiling best practices and providing technical assistance for funding.

Summary - Help Needed

- Cross-workgroup coordination and tasks (e.g., addition of a full-time CRWG staffer)
- Developing and updating climate change indicators (e.g., contractor or CBP technical analyst support)
- Supporting advancements in securing funding and advising on nature-based climate resilience activities (e.g., contractor or in-kind support within CBP Partnership)

Appendix - Status of Other Actions in Climate Resiliency Logic & Action Plan

Projected Status (2021-2022)

Relying heavily on partners to make progress

Likely to make progress with current CRWG resources

Actions Relying Heavily on Partners to Make Progress

* GIT-funding or CBP partner support available; may need help with coordination

Project Support

- Fisheries GIT FY20 GIT-funded project, “Forage Indicator Development - Using Environmental Drivers to Assess Forage Status” (2.6b) - Lead: Forage Action Team
- Application of IDF curve work - Lead: Urban Stormwater Workgroup (2.6d)
- Provide advisory support for the FY20 STAR GIT-funded project, “Modeling climate impacts on SAV in the Chesapeake Bay” - Lead: SAV Workgroup (1.4)

Actions Likely to Make Progress with Current CRWG Resources

Based on full-time coordinator, 2 part-time STAR staffers (10 hours per staffer per week), and volunteer workgroup member support

Indicators

- Evaluate the usefulness of existing and proposed climate change indicators (1.1a)
- Support STAC Workshop, “Rising Watershed and Bay Water Temperatures—Ecological Implications for Ecosystem Processes Influencing Stream, River, and Estuarine Health.” (1.1c)

Water Quality/BMPs

- Support the WQGIT on BMP climate resilience assessments needed to update the WIPs (1.6)
 - Review Virginia Tech and Chesapeake Stormwater Network reports
 - Host cross-workgroup meeting to present findings and sort out recommendations for research agenda with Management Board

Actions Likely to Make Progress with Current CRWG Resources

Based on full-time coordinator, 2 part-time STAR staffers (10 hours per staffer per week), and volunteer workgroup member support

Nature-Based Resilience Activities

- Increase capacity to better understand sea level rise impacts to coastal marsh habitats and their ecosystem services (1.3)
 - Support GIT-funded project, “Synthesizing shoreline, sea level rise, and marsh migration data to inform wetland restoration targeting” (a)
 - Invite experts to CRWG meetings. Connect projects with decision-making (b)
- Assist with capacity building activities (2.2)
 - Identify and convene discussion on priority adaptation actions and connect science with decision-making needs of natural resource managers and CBP workgroups (a)
 - Define goals of adaptation workshop (b)
- Explore opportunities to assess existing blue carbon protocols and identify science needs (2.3)

Project Support

- Consult on cross-GIT climate change projects (2.6)
 - Habitat GIT’s FY19 GIT-Funded project, “Targeted Local Outreach for Green Infrastructure in Vulnerable Areas” (a)

Actions Likely to Make Progress with Current CRWG Resources

Based on full-time coordinator, 2 part-time STAR staffers (10 hours per staffer per week), and volunteer workgroup member support

Administrative

- SRS process and CRWG management (2.7)
 - Develop workgroup charter (a)
 - Develop and implement logic and action table (b)
 - Identify high priority science needs (c)
 - Work with Management Board to identify opportunities with their organizations to other government agencies to build additional capacity outside CRWG current capacity (d)
 - Develop approach to prioritize climate-related requests (e)
- CRWG membership and meetings (2.8)
 - Develop and distribute survey to identify members and expertise to assist with logic and action plan (a)
 - Seek to expand workgroup membership to include partners with funding opportunities (b)
 - Organize and facilitate monthly meetings (c)
- Prepare for new federal and climate initiatives and emerging issues (2.9)
 - Support drafting of EC Climate Directive (a)
 - Develop process to document emerging climate change issues provided by FOD and state partners (c)