

# Climate Resiliency Workgroup Climate Research Needs Prioritization



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**Chesapeake Bay Program**  
*Science. Restoration. Partnership.*

# Climate Resiliency Workgroup Background



- As part of the framework for addressing climate change impacts in the Phase III Watershed Implementation Plans (WIPs), the PSC requested that the Climate Resiliency Workgroup (CRWG) determine how climate change will impact the BMPs included in the WIPs and address these vulnerabilities beginning in the 2022-2023 milestones

# Climate Resiliency Workgroup Strategic Review System request



- During the CRWG SRS presentation it was pointed out that the workgroup really did not have the means to fully meet this PSC request without Management Board support.
- During the ensuing Management Board discussion, the CRWG was asked to provide a prioritized list of climate research needs for consideration.
- It was requested that the CRWG also get STAC input into the research needs list.

# Climate Resiliency Prioritized List of Climate Research Needs



- Based on the Climate Resiliency Workgroup's (CRWG) previous science prioritizations that have been done over the last few years
- Two rounds of prioritization done by the CRWG

# Climate Research Needs



- Design and function of BMPs under new climate reality 100 % \*
- Better understanding of precipitation changes with regards to intensity, annual amounts, seasonal impacts, storm events and stormwater management 56% \*
- Social Science - human behavior - implications of the human response (positive and negative) to climate change, flooding, sea level rise as well as motivation and needs of communities to adapt 50%\*
- Better Understanding of sea level rise and subsidence impacts in changing climatic conditions 44%\*

# Climate Research Needs



- Green infrastructure performance including increased sediment due to climate change 33%\*
- Changing Climate Conditions and their impacts on wetlands 19% \*
- Climate Impacts to key aquatic fish species abundance, life cycle and habitat 13%\*
- Changing climate conditions and their impacts on SAV 6%\*
- Changing Climate conditions and their impacts on invasive species 0%\*

# Climate Resiliency Workgroup's request of STAC



- CRWG presentation to STAC on climate research priorities in December
- STAC not yet comfortable endorsing the list of 9 Climate Research Priorities but coordinating with STAR and CRWG on this effort

# Questions

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