



**Joint Scientific, Technical Assessment and Reporting (STAR) Meeting/
Coordinator & Staffer
Meeting**

Thursday, December 17, 2020
9:30 AM – 12:30 PM

Join by Webinar:
Meeting Number: 120 715 6008

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Meeting Materials:
https://www.chesapeakebay.net/what/event/joint_c_s_star_december_2020_meeting *This*

meeting will be recorded for internal use to assure the accuracy of meeting notes.

AGENDA

9:30 Welcome, Introductions & Announcements – Bill Dennison (UMCES) and Scott Phillips (USGS)- STAR Co-Chairs, Peter Tango (USGS) and Emily Trentacoste (EPA), STAR Co- Coordinator

Upcoming Conferences, Meetings, Workshops, & Webinars-

- [Sustainable Agriculture Conference](#), February 3-6, 2021. Lancaster, PA. Virtual.
- [CERF](#), November 7 – 11, 2021. Richmond, VA.
- [A Community on Ecosystem Services \(ACES\)](#), December 13 - 16, 2021. Bonita Springs, FL.

Announcements

- Welcome New STAR Staffer Tom Butler!
- USGS and NRCS renew data sharing agreement.
 - Jeni Keisman will remain in the CBP Ecosystem Analyst position.
- Scott Phillips opens saying this is the last STAR Meeting 2020
 - Jeni Keisman's detail won't happen so she will be back full time in Feb.
 - Emily Trentacosta will also be back in Feb full time.

- Late last week the USGS and NRCS signed a new data sharing agreement. Lets USGS have point data of BMP info from NRCS to interpret water quality trends. This data won't be shared, it will be aggregate so it doesn't show private property. Mark Nardi and Jeni Kiesman are to thank for this 5 year renewal.
- Scott Phillips says going over the Science needs for the Climate Change and resilience cohort, inducing the two climate change outcomes and wetlands.
- Scott Phillips also announces that Breck has created a science needs database which is planned to be demonstrated at today's meeting.
- Scott Phillips wants to finish with STAC proposals for goal teams which might be merged with each other.
- Scott Phillips asks if anyone has announcements?
 - Tom Parham says Bruce can't make it but passes along that MD DNR is working with CBP modeling folks to standardize baywide hypoxia modeling. Report for 2021 on Baywide hypoxia, not just MD, this includes the Potomac.
- Scott Phillips asks if anyone else has general announcements?
 - He then introduces Marisa Baldine and asks for a quick overview of what she will be doing.

9:35 CBP Communications Update – Marisa Baldine (CRC)

- Marisa Baldine says she will handle the CBP news letter, twitter account, and other communications projects.
 - She started 1 month yesterday.
- Marisa has a list of blogs published since the last STAR meeting
 - She states that several pieces were written by communications staff and some by guests including a two part series by an intern.
 - Still coming within the next year or so a few additional publications will be submitted:
 - https://www.chesapeakebay.net/channel_files/41670/communications_update_12-17-20.pdf
 - They are also wrapping up the 201 GIT funded project on social marketing of shoreline mgt and will continue working on the Bay barometer and will report that after the holidays.
- Scott Phillips says this is a good opportunity for STAR to provide feedback regarding new articles coming out or if they want assistance to produce communications projects.
 - Scott Phillips asks if there are any things to share with the communications team?
 - Scott Phillips has a few which UGSG is putting out related to fisheries
 - Viki Blazer takes a 2 decade look at fish health issues throughout the watershed. This is mostly in the Susquehanna and Potomac rivers regarding what causes fish health issues?
 - Rachel Felver asks if this is out now?
 - Scott Philips has a prerelease which he can send around

after the meeting.

- Jeni Keisman is making a summary report on different tributaries on what the tidal conditions are.
 - The Potomac river report is coming out early in the new year.
- Scott Phillips says if anyone else has anything then to please send it to the communications team after the meeting.
- Scott Phillips Rachel Felver who the five people on the communications team are and what they each do?
 - Rachel Felver, is the communications director
 - Jake Solyst is the web content specialist and manages the CBP facebook.
 - Kate Johnson is the communications outreach specialist dealing with local engagement.
 - Will Parson is the multimedia manager
 - Marisa Baldine is the new staffer
 - Scott Phillips asks Marisa if she can give reports of a 2-3 month plan so they can easily coordinate with others regarding project communication goals..
- Scott Phillips thanked the communications team and moved on to the climate cohort.

9:40 – 11:05 Climate Change and Resiliency Cohort Science Needs Discussion – Outcome Leads

Materials: Climate Change and Resiliency Cohort Science Needs

In follow-up to the Management Board review, each of the leads for the Climate Change and Resiliency Outcomes will discuss their updated science needs. STAR will provide input on potential opportunities to address science needs.

- Scott Philips says he wants a detailed discussion of outcomes with the science needs portion of an outcomes review from the management board.
 - This discussion updates a science needs list which can then be used to reach out to science providers to address these science needs.
 - Scott Phillips asks if we want to follow the agenda order or deviate?
- Julie Reichert-Nguyen says the order is fine.
- Scott Phillips agrees the order is fine and that the meeting will stick with it.

9:40 [Wetlands](#) – Chris Guy (USFWS) & Megan Ossmann (CRC)

- Scott Phillips says Chris Guy, Megan Ossman, and Pam Mason will be on to present.
- Pam Mason says things have been very busy so there is not much new material since the fall of 2019 and the SRS review process. This means research needs have not necessarily been addressed as much as they could have.
 - Pam Mason says she has a GIT funded proposal on what are the potential adverse effects of wetland mowing and the effects on wetland migration that occurs when individuals manage landscapes.
 - Scott Phillips clarifies that potential resources within the science need are people, groups, etc which can help to fulfill the science need.
 - Pam Mason asks if this is resources not targets?
 - The target to develop for other jurisdictions,

- Scott Phillips says this would be more specific details.
- Chris Guy clarifies that a many workgroups are coming together to work on overlapping issues.
 - Pam Mason says yes there must be an improved communications processes
 - Scott Phillips says this would go under specific details of what the workgroup has identified already.
- Pam Mason says data tracking requires a modification as to how data is collected and input to improve wetland tracking capacity. They have put together a proposal on the need behind data problems. They have also created and are close to a finished white paper on this.
 - Pam asks chris to add detail
- Chris Guy adds brook trout brought up this issue but it was shot down. They are currently repackaging this data problem to make it a higher priority. The proposal is a one page outline of what they think the solution is. The big science need is more about identifying what the problem is, they have an idea to solve through state engagement. They are not sure what this solution will look like and once the proposal is through it will take 2-3 months to find a problem then the solution gets harder to work through.
- Pam Mason thinks the project partners will find it useful to see that their reporting is accounted for and will lead to solidifying a reporting. This then allows them to focus on wetlands projects not just counting wetlands.
- Chris Guy says the habitat GIT makes this a very high priority.
- Scott Phillips asked if Bruce Vogt has a comment on tidal fish habitat?
 - Bruce Vogt says it is good to follow up with Pam and Chris with respect to wetland needs and the existing conversations between wetland and fish needs. He cites survey work in the Choptank on how fish habitat assessments can be incorporated into other habitats such as SAV and Wetlands. He asks how we can use assessments like these to help drive wetland conservation. He says if there are places within the tidal assessment that help fish but also produce healthy wetlands these cobennfits could make such sites better conservation targets.
 - Pam Mason says most work so far is conversations but there is a desire to share a meeting. This could really focus on cobennfits for tidal wetlands and fish habitat to add resilience.
- Chris Guy adds from GIT party this is a significant priority and that by the first quarter of the new year a small subgroup of people will have a meeting to really define what the workgroup needs. These areas can be easy and low hanging fruit.
- Scott Phillips asks if any other wetland needs?
- Pam Mason says a new need not identified on the sheet is on developing mapping strategies to map wetlands as a land cover. She is conversing with Peter Clagget and Labeeb to identify wetland classes and classify by contributions or reductions.
 - Scott Phillips says this would help several groups.
 - Pam Mason says yes this touches on improved understanding of headwater networks which are important to understand.
- Scott Ppillips asks Breck if Pam et al could update these sheets?
 - Breck Sullivan says yes new info can be included in columns in the sheet she will not give final approval to update into database w/o edits.
 - Scott anyone else?

- Renee Thompson says after getting further along with wetland classifications these results can fit into the healthy watershed assessment. She supports the work and wants to help.
- Gina Hunt has made a chat comment but elaborates about options moving forward with fish habitat assessments. She talks about conversations about the fish habitat assessment, hardened shorelines and thinks a joint meeting with the wetlands group offline would be good.
- Chat:
- from bruce vogt to everyone: 9:47 AM
 - had a technical problem. I was trying to add a few things from NOAA. I expect a tech memo on oyster ecosystem services coming out in the first quarter of new year and we produced a nice synthesis for the NOAA state of the ecosystem report we plan to release early in new year.
- from Rachel Felver to everyone: 9:48 AM
 - Thanks for the update, Bruce! We'll connect with you in early January.
- from bruce vogt to everyone: 9:57 AM
 - Pam we should touch base to see if the work being done on a tidal fish habitat assessment can be used to guide / identify wetland priorities. we need some specific management uses for the assessment
- from bruce vogt to everyone: 10:08 AM
 - also wanted to mention the work TNC-Pew are doing with salt marsh and SAV associated fish productivity. They are modeling fish production for each habitat in the Gulf and Atlantic coast using juvenile on and off habitat data. Sounds relevant to wetlands interests.
- from Gina Hunt to everyone: 10:08 AM
 - We can chat offline about the FH possibilities with Wetlands. Pam and I talked about joint meetings - particularly on the subject of hardened shorelines Bruce is suggesting including them in the wetland pilot. I thought of that, but again, we need a conversation with NCOS. So plenty of options.
- from bruce vogt to everyone: 10:09 AM
 - <https://www.lenfestoccean.org/en/news-and-publications/fact-sheet/estimating-fish-and-invertebrate-production-associated-with-key-coastal-habitats-in-the-us-northeast>

10:05 Black Duck - Chris Guy (USFWS) & Megan Ossmann (CRC)

- Chris Guy starts by saying the Black Duck workgroup is struggling looking for an additional co chair. In some ways needs are more defined but the Workgroup is slow to respond due to infrequent meetings.
 - Megan Ossman is offline,
 - Chris Guy says 140k acres of habitat for Black Duck is their goal however this is set to support 100k Black Ducks. There are currently 40k Black Ducks and they need to actually determine the acreage which will support the 100k.
- Scott Phillips asks if Chris has the technical expertise to translate the number of birds into acreage? Do they need help?
 - Chris Guy says yes this ties into tidal wetlands but they need to capture outcomes as a success to determine report acres. They need these habitat indicators to better assess wetlands. This really ties a lot into wetland needs, and they can't really be differentiated.

- Megan Ossman is back, Chris asks if she heard what was needed for additional support?
- Megan Ossman says there is a need to have a method for tracking yearly progress. This method requires wetland restoration acre goals per year. If they get a resources management proposal funding then this can be done.
- Megan Ossman and Chris Guy both say this ties into wetlands.
- Megan Ossman says there are proposed Delaware and USGS efforts underway to determine how Sea Level Rise (SLR) affects tidal wetland loss, and Black Duck habitat.
 - Chris Guy says this isn't necessarily super high priority and not much work has been done on wetland lost over time, this is becoming a large topic but not enough discussion has happened yet to place this as high priority.
- Scott Phillips asks Julie Reichert-Nguyen if the climate resiliency workgroup follows a standard SLR scenario for the modeling team to use is this correct?
 - Julie says they are in the process of looking at incorporating SLR in modeling for its effects on DO levels; this includes working with NOAA's SLR viewer to see wetland loss and migration.
- Chris Guy says this goes hand in hand with how wetland loss has biology effects.
- Scott Phillips says this is good and that there are at least some resources behind moving this forward.
- Megan Ossman says the next need is to study the effects of Mallard and Black Duck hybridization given there are large mallard releases in the Chesapeake Bay..
 - A partner from the University of Delaware wants to expand an existing project into the Chesapeake Bay
 - Scott Phillips asks if this is a situation where that partner would take the lead?
 - Megan Ossman says this is the idea but that they would need to hammer out the details.
 - Chris Guy adds this is not super high priority yet but could use additional help..
- Megan Ossman brings up the effects of toxic contamination. And Scott Phillips says he has never seen this one before.
 - Chris Guy adds that this needs money.
 - Scott Phillips offers up information that the USGS has put together a tool to look at habitat and where there might be effects of coastal contaminants, this work is a result of Hurricane Sandy.
 - Scott adds that he will reach out to the USGS contact
 - Chris asks if this is Alecia Berlin?
 - Scott says no this is Dan Jones who does a SCORE tool.
- Megan Ossman says there is a need to find the best survey method to track progress towards waterfowl survey techniques.
 - Scott Phillips asks if there are any current partners doing work on this?
 - Megan Ossman says no. She will check back for any updates
 - Chris Guy does not know if the Chesapeake is priority
 - Megan Ossman says ducks unlimited brought this up but isn't sure what their level of follow up is.
 - Schott Phillips adds Peter Tango has a chat comment to bring up when there is a moment.
- Megan Ossman adds there is a need to evaluate the Black Duck Decision model, and that tweaks to the model are related to harvest data and investigation of bias related to

migration chronology data.

- She again thinks this was initiated by Ducks Unlimited and the Black Duck Joint Venture
- Megan Ossman also adds there is also a need to update the SLAM and urban growth data to the model. These updates are planned over next year or two.
- Scott Phillips asks if they need larger geographic areas including the University of Massachusetts right?
 - Megan Ossman say yes
 - Scott Phillips asks if this is Ducks Unlimited and the Black Duck Joint Venture which are actually carrying this out?
 - Megan Ossman says yes.
- Scott Phillips asks Peter Tango if he wanted to bring up his idea from the chat?
- Peter Tango says that they are touching on the assessment of the bird detectability work. He says the progress has been made and is happy to see the joint venture offers support and says if there is not enough then it would be good to see others brought in to help increase support.
- Scott Phillips adds that Alicia Berlin is looking at how current habitats support multiple species but will let the workgroup decide if they want her involved or not.
 - Chris Guy says the outcome is Black Duck but they want to move forward with other species, not only ducks which use similar habitats, some might end up on ESA, black rail.
- Scott Phillips says this was the original intent, but wanted to pick one as an indicator, Black Duck was selected.
 - Chris Guy says Black Duck is a fairly stable species, not crashing like other species, many managers have moved on with a lot of effort dedicated to other species. He is trying to get the workgroup to follow.
 - Scott Phillips agrees this is an important direction.
- Peter Tango adds that Diana Procer's work is connected to a broader diversity of birds and connects to other historic work. This was all part of a broader near shore zone project support. He suggests getting in touch with Diana, who would be a good touch zone for broader diversity of species protection and habitat needs.
 - Chris Guy says he works closely with her and suffers from a lack of leadership, and they need a co-chair. This might be resulting from the low priority of black duck. Need leadership. Wide open WG that could go in many directions.
- Scott asks if anything else?
- Megan Ossman says she is done, Chris Guy thanks everyone. If any questions please reach out.
- Chat
- from Peter Tango to everyone: 10:17 AM
 - Chris - as I understood, the black duck counts were based on assessing 40% of available habitat, not a full census of all habitats, and 40,000 birds on 40% of habitat equates to more birds in 100% of available habitat. Maybe this is part of the translation between needed habitat and known habitat classified? Perhaps that is part of the habitat indicator upgrade.
- from Chris Guy to everyone: 10:26 AM
 - That may be correct, as I mentioned this workgroup is suffering from a lack of

leadership right now, so info is coming to me a little disjointed.

10:30 Climate Monitoring and Assessment & Climate Adaptation – Julie Reichert Nguyen (NOAA)

- Julie Reichert-Nguyen shares her presentation
 - Presentation is organized to cover the climate resiliency groups highest priorities. Julie asks that if anyone knows of scientists who can help reach workgroup goals then please let her know as she is trying to build relationships.
 - Julie asks if we should pause after each science need or go through them all?
 - Scott Phillips says yes it would be good to pause. He says it looks like there are many resources already available but that based on what he sees there could always be more involvement.
- Julie Reichert-Nguyen says many of these needs are mostly data poor so efforts will likely identify gaps in science that are needed to make a research agenda to move forward with.
- Peter Tango says on the data side a STAC workshop could reflect enhanced data collection and assessment needs which can tie into climate resilience (show influence over space and time). And on a local scale NRCS investment in Conowango station to evaluate the impact of large scale improvement to reduced sediment loads. This is a targeted watershed with a high density station with many stakeholders involved. It can act as a large-scale BMP implementation experiment.
- Tuana Phillips comments in the chat:
 - I don't know too much about it, but a PhD student I know from UMD worked on the following: "She's also building a tool to assess climate resilience of green infrastructure for the Chesapeake Bay region." I can follow up with her for more info. She graduated earlier this year
- Scott Phillips asks if Bill Jenkins from region three knows who can help with this?
 - Bill Jenkins says reaching out to his office of Research and Development which utilized updated needs from Julie to see if anyone within the R and D department might have the expertise to help support the need.
 - Scott Phillips says Emily Trentacoste is on detail with the office of R and D until Feb. so it might be beneficial to set up a call with her and Bill while she is still on detail.
 - Emily Trentacoste is on the line and says yes she would like to do that!
 - Julie Reichert-Nguyen says this is one of the highest priorities so it's hard to tackle so any help is great.
- Mark Bennet says that we must be careful when finding research pertaining to BMPs that might be from another area outside the Chesapeake Bay watershed and will require adapting this existing work to be utilized effectively. It is important to decide how BMP efficiencies might be impacted and when, but it is hard to find current research being done,
 - Julie and Scott agree this is a great point.
- Julie Reichert-Nguyen pauses for comments
- Renee Thompson appreciates the presentation and has a question about the outcome of the synthesis of the shoreline GIT project, will there be a report? What will this look like?
 - Julie says yes there will be a report but want a test case working with an area,

they will look at available data then come up with a roadmap of information used in decision making. They hope to use a location with a good area across a number of different topics and work with that locality to perform a user test on the best way to portray information for strategizing marsh conservation. All of this will be in a final report with recommendations on how to best display information to best make decisions..

- Renee Thompson says it's good to have a pilot data set. On that she says for any GIS data you will want a QAPP and should talk with Jon Wolf. She additionally encourages the creation of code for upscaling by the contractor so that this can be applied to multiple areas. She also says this data is needed for healthy watersheds projects and that she is a resource and looks forward to helping however she can.
 - Julie Reichert-Nguyen is talking with Peter Claggett and Labeeb on this topic, and hopes to get help from the GIS team on proposal feedback.
 - Renee Thompson wants to put together a C-stream intern proposal to support this project
 - Julie Reichert-Nguyen wants to talk offline.
- Scott Phillips adds the USGS are studying a coastal habitat project, Joel Carr, and Neil Ganguer work on, have they been involved with the climate resiliency workgroup before?
- Julie Reichert-Nguyen says this might have been before her time but wants to meet with them now.
 - Scott Phillips says he will slip them a note to facilitate a meeting.
 - Julie Reichert-Nguyen says Neil is a WG member already

- Chat:

- from Tuana Phillips to everyone: 10:40 AM
 - I don't know too much about it, but a PhD student I know from UMD worked on the following: "She's also building a tool to assess climate resilience of green infrastructure for the Chesapeake Bay region." I can follow up with her for more info. She graduated earlier this year
- from Renee Thompson to everyone: 10:47 AM
 - The land use methods and metrics outcome also relates to the SLR, marsh migration need as well.
- from Gina Hunt to everyone: 10:49 AM
 - This sounds a lot like the Choptank pilot example mentioned earlier with wetlands.....
- Scott opens to feedback? He adds that it is a shame Bill Dennison isn't online since he might be a good person to follow up.
 - Julie Reichert- Nguyen says yes she'll follow up with him and wants to add habitat to outcomes as well.
- Julie Reichert- Nguyen then opens the floor for suggestions:
 - Peter Tango says blue carbon can relate to a recent STAC workshop regarding SAV assessment through satellite images. This is founded on a blue carbon assessment connected with Dick Zimmerman from ODU. If you haven't already contacted him this would be a good idea.
 - Julei says she is not currently in touch with him yet but will shoot for this summer

to put him in contact with an intern..

- Julie Reichert- Nguyen touches on the last few science needs then opens for comments.
 - Peter Tango talks about saltwater inundation and how audubon is focused on Blackwater complex degradation through SLR. He says it might be useful to touch base with the Audubon folks.
 - He adds that for the invasive species topic it is interesting to pull into the fisheries world, invasive shrimp, lionfish, etc. He is curious about where this falls in terms of priorities with migrations due to climate change.
 - Julie Reichert- Nguyen says invasive species maybe didn't fit into fisheries GIT, and might want to have a discussion with the fisheries GIT to incorporate.
 - Juliana Greenberg says there is no invasive species WG, this was an active choice. Instead there is staff support provided with Mark Lewendaowski and Juliana. She can converse regarding invasive species if need be.
- Scott Phillips asks if migrations are an issue looked at?
 - Juliana looks more at species that have moved because of climate, not climate moving many species. They have small research funds for projects that could be useful if this was to become a priority.
- Bruce Vogt follows on Peter's comments to look at developing a federal funding opportunity for later this winter and is currently asking for feedback on fishery managers. One theme identified is climate impacts and how climate change affects the range, distribution, and productivity of key species. There is already a focus on black sea bass and summer flounder. Progress laid out Jan 13th, have climate report. Some work underway and want to identify specific needs from a fisheries standpoint for the future.
- Julie Reichert- Nguyen thanks everyone, espec for resources. Likes clim sci needs being inorp into other WG needs. Collaborative efforts are greatly appreciated.
- Scott thanks [Julie Reichert- Nguyen - NOAA Federal](#) and emphasizes new administrations' potential for increased funding for projects. He suggests having a drafted list which can be quickly presented to transition teams.
- Chat
 - from Peter Tango to everyone: 11:04 AM
 - Julie - on saltwater inundation and wetland effects, I believe Audubon is a major player in assessing habitat change in the Blackwater wetland complex over relationships to black rail and salt marsh sparrow. Does salt water inundation = rising nearshore water table as a function of SLR? Either way, consider contact/integration with Audubon in our area.
 - from Julianna Greenberg to everyone: 11:04 AM
 - There is not an Invasive species workgroup. The Bay Program provides staff support and one representative to the Mid Atlantic Panel on Aquatic Invasive Species in place of having our own workgroup for invasives
 - from bruce vogt to everyone: 11:11 AM
 - NCBO is drafting a NOFO for releases this winter. We are engaging with Fishery managers on climate related needs including changing range and distributions of key species. We also have projects underway linking climate factors to habitat suitability for summer flounder and black sea bass.

11:05 Chesapeake Bay Program Science Needs Database – Breck Sullivan (CRC) The Strategic Science and Research Framework (SSRF) identifies and assesses both short- and long-term science needs of the partnership. These science needs are captured and tracked in a database, which is continually updated throughout the year. SSRF now has a publicly available database to help engage stakeholders and identify opportunities to better align or evolve resources.

Breck will give a live demo of the database. STAR is asked to provide feedback on:

- General layout
- Level of information
- Content
- Filtering capabilities
- Accuracy of science needs

- Breck Sullivan on Sci Needs Database:
- Want feedback Qs' want to address by Jan. will send link through chat:
 - <https://star.chesapeakebay.net/>
 - Wants people to address the accuracy of the listed science needs within the database.
 - Due to limited time Breck can answer questions on the chat if you have questions today.
 - Scott Phillips suggests sending an email with the link after the new year.
- Chat
 - from dvetter to everyone: 11:22 AM
 - This looks like it will be much easier for everyone to manage. Maybe consider renaming the database from "STAR Needs Tracking" to "Science and Research Needs"? My first quick read was we need to track STAR! Hahaha
 - from Peter Tango to everyone: 11:22 AM
 - Is there an archive of completed activities as a tracking mechanism?
 - from Emily to everyone: 11:22 AM
 - Yes Peter! It archives all completed needs as well as deleted needs
 - from Olivia Wisner to everyone: 11:22 AM
 - Stepped out to microwave my lunch so I may have missed this- but should we hold off on sharing with the workgroup members until you've gotten that feedback Breck?

11:15 Discussion of potential idea for STAC workshop proposals: All GITs and STAR, facilitated by Scott Phillips

The GITs and STAR will identify ideas being considered for Scientific and Technical Advisory Committee (STAC) workshop proposals. The STAC is accepting proposals for sponsored workshops that are due to STAC Coordinator, Annabelle Harvey (harveya@chesapeake.org) by COB February 16, 2021. Workshops would be convened between June 2021 and May 2022. The RFP can be found on the STAC website [here](#).

- Scott Phillips says the STAC RFP is out and he would like to do a quick Round Robin for Goal Teams if they are considering putting in a Workshop proposal.
 - Fisheries
 - Bruce Vogt, says not at this time, they are using temperature indicators, but nothing fish GIT specific.
 - Habitat
 - No response
 - Wetlands
 - Megan Ossman talks about unintended consequences of BMPs due to competing restoration processes leading to habitat conversion, or prioritization of BMPs due to credits. They want a systems approach to maximize benefits of BMP implementation. They are also interested in reaching out to other groups to see who else is interested in this.
 - Juliana Greenberg plans to support the WQ GIT proposal.
 - Water Quality Group
 - Peter Tango says they recognize monitoring specific resources have been stable for a while but are losing the amount of data they are able to collect during traditional efforts. There are advancements in monitoring and they want to account for new data streams to fill space and time gaps to evaluate options which are the most beneficial. Plays off the SAV workshop STAC put on, the Hypoxia assessment, and citizen science investments. There is support from Peter, Gary, etc for the Water Temp STAC proposal.
 - Scott Phillips asks if anyone wants to give an overview of the STAC proposal, and asks Julie if she can give an overview.
 - Julie Reichert-Nguyn hasn't seen the most recent proposal. There are a lot of themes around BMP co benefits of lowering temp, an indicator theme for Bay water temp change and stream temperature change, and a monitoring theme. There are a lot of different Workgroups (WG) involved with many themes. Many meetings will occur prior to the STAC workshop.
 - Scott Phillips says that Rebecca Hamler has been leading these efforts and that she should be contacted if no one has talked to her yet.
 - Scott Phillips says toxic water WG is looking at effects of PFAS on fish and wildlife. The focus will be on what's being done and can we develop compatible collection techniques to look across the watershed? Right now people are collecting things with many ways that make cross study comparisons very difficult.
 - Healthy watersheds
 - Renee Thompson says no, her hands are full but likes the idea of future work in 2021-2022 with the healthy watershed assessment. Will talk with Megan Ossman about coordinating with healthy watersheds
 - Stewardship

- None
- Climate Resiliency
 - Julie Reichert-Nguyen says no. They will support the water temp workshop but want to link to blue carbon, in the future.
- Scott Phillips opens to additional workshops, none are planned. He sees that Meg Cole posts a link to the STAC FY2021 RFP: https://www.chesapeake.org/stac/wp-content/uploads/2020/11/STAC-Workshop-RFP_FY2021.pdf
- Meg Cole says the wording is different this year but it is the same situation.
- Scott Phillips asks for a 10min overview on what makes a successful workshop proposal.
 - Meg Cole says will reach out after the meeting.
- Scott Phillips says that's all for STAR.
- Chat
 - from Meg Cole to everyone: 11:23 AM
 - Link to STAC FY2021 RFP: https://www.chesapeake.org/stac/wp-content/uploads/2020/11/STAC-Workshop-RFP_FY2021.pdf
 - from Emily to everyone: 11:24 AM
 - Olivia - i think you can share with WG members with the caveat that we are still in the "soliciting feedback" stage - and would LOVE feedback from WG members as part of that!
 - from julie.reichert-nguyen to everyone: 11:26 AM
 - Yes, Climate Resiliency is supporting the Water Temperature STAC workshop proposal through WQGIT
 - from Breck Sullivan to everyone: 11:42 AM
 - STAR meeting January 28th
 - from bruce vogt to everyone: 11:50 AM
 - Thanks for the overview. focusing on timely issues and decisions on wetland and forest buffers is good. there are still some nuts and bolts issues around time required to prep and complete each outcome review (up to 6mos) and engagement of team members over this period

11:35 Coordinator/Staffer Meeting

- See other doc

12:30 Adjourn

Next Meeting Dates: January 28, 2020 (Joint C/S & STAR SRS Dry Run Meeting)