Subject	Studies/Research/Best Practices Subcommittee Meeting #5 Virginia Coastal Resilience Master Planning Framework	Date	August 9, 2021
Facilitator	Dr. Robert Weiss	Time	11:00 am – 12:30 pm
Location	WebEx - <u>https://governor.virginia.gov/i/dbr6r</u> 1111 E Broad Street, Richmond, VA 23219 Conference Room 1	Scribe	Emily Sokol

	Invitees/Attendees				
#	Name	Organization/Role	Attended?		
	Studies, Resear	ch, and Best Practices Subcommittee Members and Staff Advisors			
1.	Dr. Robert Weiss – Chair	, j			
2.	Dr. Karen McGlathery – Vice Chair	Director, Environmental Resilience Institute, University of Virginia Y (			
3.	Shurui Zhang – Staff Advisor	Commonwealth Coastal and Marine Policy Fellow	Y		
4.	Elizabeth Andrews	Director, Virginia Coastal Policy Center at William & Mary Law School			
5.	Dr. Jessica Whitehead	Executive Director, Institute for Coastal Adaptation and Resilience (ICAR), Old Dominion University	Y		
6.	Dr. Carl Hershner	Emeritus Professor of Marine Science, Virginia Institute of Marine Sciences at William & Mary	Y		
7.	Whitney Katchmark	Principal Water Resources Engineer, Hampton Roads Planning District Commission	trict Y		
8.	Dr. Mark Luckenbach	Associate Dean for Research and Advisory Services, Virginia Institute of Marine Science at William & Mary	of Y (V)		
9.	Catherine C. McGhee	Director of Research and Innovation, Virginia Transportation Research Council	earch Y		
10.	Ashley Montgomery	Associate Designer, Hanbury	Y (V)		
11.	Mary-Carson Stiff	Wetlands Watch Policy Director			
12.	William "Skip" Stiles, Jr.	Executive Director, Wetlands Watch	Y		
13.	Carlos Rivero	Chief Data Officer			
14.	Dr. Robert S. Young	Geology Professor, Program Director for the Study of Developed Shorelines, Western Carolina University			
		Scheduled Speakers			
		Designated Alternates			
15.	Jesse Reiblich	Designated for Elizabeth Andrews	Y (V)		
	1	Subcommittee Advisors	1		
16.	Emily Steinhilber	Coordinator, Commonwealth Center for Recurrent Flooding Resiliency at Old Dominion University	Y		
17.	Shep Moon	Coastal Planner, Virginia Coastal Zone Management Programs	Y (V)		
		Other Participants			
18.	Ann Phillips	Rear Admiral, US Navy (Ret.) – Special Assistant to the Governor for       Y         Coastal Adaptation and Protection       Y			
19.	Matt Dalon	VA Dept. of Conservation & Recreation Y			
20.	Doug Fritz	Y			
21.	Sarah Henshaw	ah Henshaw			
22.	22. Chris Stone		Y		
23.	Wendy Howard Cooper		Y (V)		

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#	Name	Organization/Role	Attended?	
24.	Angela Davis		Y (V)	
25.	Barrett Hardiman		Y (V)	
26.	Grace Tucker	EDF	Y (V)	
27.	Madison Teeter	Wetlands Watch	Y	
28.	Matt Jones	Office of the Governor	Y	
29.	Sam Jasinski	Wetlands Watch	Y	
30.	Kristen Owen	Henrico County	Y	
		Consultant Support		
31.	Brian Batten	Dewberry	Y	
32.	Dan Medina	Dewberry	Y (V)	
33.	Alaurah Moss	Dewberry	Y (V)	
34.	Emily Sokol	Vision Planning and Consulting	Y (V)	

	Agenda/Minutes				
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1.	Welcome and Quorum Affirmation	<ul> <li>Dr. Robert Weiss provided a welcome to the meeting and called the meeting to order at 11:10 am. Dr. Weiss called roll to establish a quorum, and a quorum was present.</li> <li>It is requested that the attendees ask questions through the chat box, and Shurui Zhang will moderate the chat. If there are connectivity issues, please contact Shurui Zhang at 217-979-8438. Staff will be muted throughout the presentations and may ask questions or place comments in the chat box. Subcommittee members attending virtually will be unmuted, as necessary when the discussion period is opened.</li> <li>Dr. Weiss asked the Subcommittee if anyone had any additions or comments to the meeting minutes from the July Subcommittee meeting. No comments or additions were proposed, so Dr. Weiss approved the July Subcommittee meeting minutes.</li> </ul>			
		Dr. Weiss explained that the intent of the current meeting was to discuss the meaning of the Relocation Handbook, as well as discuss recommendations proposed by the Nature-Based Infrastructure and Socioeconomic Working Groups. By discussing and voting on the proposed recommendations, as well as changes to be made to the Relocation Handbook, in this meeting, the Subcommittee could act in good faith so that no content would be added after the meeting without approval from the Subcommittee. Dr. Weiss opened the floor to Rear Admiral Ann Phillips to provide comments to the Subcommittee.			
		<ul> <li>Rear Admiral Phillips: Thank you for your attendance. I am looking forward to hearing your feedback on the Relocation Handbook. Secretary Strickler is currently reviewing it but has not yet provided comments. Going into the September 2<sup>nd</sup> TAC meeting, we are looking for recommendations from all of the Subcommittees. I know this is on your agenda and look forward to your feedback. There is legislation pending that would allow virtual meetings without an in-person quorum purely for the presentation of information. This should help ease some of the more recent difficulties we have been facing;</li> </ul>			

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		however, it still prohibits the Subcommittees from taking any actions or holding votes without an in-person quorum present.			
2.	Relocation Handbook Discussion	Dr. Weiss: The Relocation Handbook is a novel concept, especially for promoting equity. Fair market value for at-risk properties does need to be addressed, as the worth of the property in the at-risk area may not be as valuable as the property that individuals might be moving to that is not at-risk. What would be the impact of this equity-wise? My opinion of relocation and this document is that the document should change over the course of the endeavor. It is a meaningful document- we need to understand the legal and policy contexts of the issue, such as what has been done elsewhere and how it is different in other states/contexts. We need to learn from others' mistakes with regard to relocation. It would be helpful to write this document so that it can be helpful for a variety of audiences: individual families, localities, and the State. All of these audiences need to be provided with the best information and data to make informed decisions. You all have received the Relocation Handbook. It was created by four students who helped to conduct research. Are there any comments, recommendations, or discussions that the Subcommittee would like to address?			
<ul> <li>the Handbook be issued by the State government?</li> <li>Rear Admiral Phillips: We do not know if the Handbook will be appendix of the plan or released as a secondary or supportin</li> <li>Mr. Stiles: Is the Subcommittee the last edit on this? If we are concerns about the current state of the document and its interest of the document and its interest early draft.</li> <li>Mr. Stiles: What is the time horizon on this? If I were to recein about relocation as a resident, should I be concerned now on How grave is the problem? There needs to be greater context. The action statement for the document is very vague. The specific document needs to be much better if you expect the reader to Dr. Weiss: We can definitely make those edits. I am hesitant</li> </ul>		<ul> <li>Rear Admiral Phillips: We do not know if the Handbook will be included as an appendix of the plan or released as a secondary or supporting document.</li> <li>Mr. Stiles: Is the Subcommittee the last edit on this? If we are, I have grave concerns about the current state of the document and its intent.</li> <li>Rear Admiral Phillips: When I reviewed the Handbook, I did not make comments on the content, as I want to hear all of your comments first. This is still an early draft.</li> <li>Mr. Stiles: What is the time horizon on this? If I were to receive this document about relocation as a resident, should I be concerned now or in 30 years? How grave is the problem? There needs to be greater context and clarity. The action statement for the document is very vague. The specificity of the document needs to be much better if you expect the reader to care.</li> <li>Dr. Weiss: We can definitely make those edits. I am hesitant to use this as a handbook, it is more likely to be used as a measurement of hazards. We are</li> </ul>			
		<ul> <li>Dr. Robert Young: I am not sure that this document is a relocation handbook. I appreciate the work that the students have completed in such a short period of time, so these criticisms are not a reflection of their work. These are case studies from which we can learn. We can address some of the concerns by framing this document more as a series of case studies. This document is not practically advising people about the process of relocation and how it will work for them.</li> <li>Dr. Weiss: These case studies should help for the design of best practices.</li> <li>Dr. Young: There are many places in which we will need to conduct buyouts where there are not good case studies currently existing. Even in the NJ Blue Acres program, none of those properties were on the barrier islands. It would help to have a gap analysis that identifies where we cannot provide a good case study analysis. My main point is that it is a case study document to learn from, whereas a handbook would provide more practical guidance.</li> </ul>			

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Iandscape of the CRMP. Discussion Point- Dr. Jessica Whitehead: I think Dr. Young and Dr right. From my experience, in developing a handbook for somethin policies of the Commonwealth, it will require more public input and comprehensively lay out an anticipatory program, rather than a rea have used similarly-styled charettes like those being conducted for had one individual step up and say "I want you to understand, you coming into my home and telling me what to do with my home. You understand how important that is." It was the most powerful thing a We could produce a document that outlines lessons learned from of think one recommendation that should be made by the Subcommit Commonwealth should have a serious conversation about how the with VDEM, as well as what will be done with Commonwealth fund	
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<ul> <li>For the Commonwealth.</li> <li>Dr. Young: Jessica, you are right. One of the issues that with and that might be beyond our scope is that all of our buyouts and managed retreat are happening in working climakes the context very emotional. We do not have many public infrastructure and commercial buildings are relocat spend all of our money trying to protect them from flooding into vulnerable, low-income communities and the St relocation, instead of only focusing relocation on single-fa discussion of buyouts always falls on underrepresented corresidences. We are passing by opportunities to implement in areas that will protect public funds in the long run. I hop this in the document. We need to have larger goals at sort implementing managed retreat.</li> <li>Dr. Whitehead: We need to lay out these issues, such as local governments to maintain roads and whether a local abandon a road if someone is still living on it. How are we areas? What do you do about ports when conducting relocation. The source of the</li></ul>	r. Weiss are exactly ing that will lay out I policy analysis to actionary one. We r the CRMP, and we are talking about u need to anyone had to say. other programs. I ttee is that the a CRMP will interact is for recovery and conversation-starter we have not dealt examples of class communities. It examples in which ted because we ig. But then we go out. How do we tate to the idea of amily homes? The communities and at managed retreat be we can addresss me point when derstand that their not be able to the legal duties of government can a rebuilding in other pocation? We can ask the next 2 years. a that need to be

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		Discussion Point- Ashley Montgomery: I wanted to make a comment about reframing the narrative regarding the intent of the document. Based on the document's current stage, it needs to be more digestible if one of the audiences is to be individuals and families. To create something that will advise residents and communities, we need to determine what information is needed from individual communities and what particular information will be needed prior to thinking about relocation strategies. How do we involve the people who are being impacted by this conversation? Their input will be necessary for any planning director to know how to move forward.			
		Discussion Point- Dr. Carl Hershner: In terms of recommendations, I believe there is a sense from the Subcommittee that the commitment to creating this document needs to extend beyond November. There will be an analysis of the legal situation in Virginia surrounding relocation. One recommendation would be to have an analysis of this managed retreat strategy, looking specifically at public infrastructure. Producing the legal and financial analysis that would build the case for abandoning existing public infrastructure is a key element of how the State will move forward.			
		<ul> <li>Discussion Point- Dr. Whitehead: When these recommendations are made, we need to reemphasize where people will go when they are relocated. We need to think about what this looks like in the future. Some communities in the near future will be able to work within their jurisdictional frameworks, as they will maintain some high grounds, but others will have to work outside of their jurisdictions. Most people do not want to move to a completely different city. Therefore, one recommendation is to focus on what we will need to do for receiving communities.</li> <li>Dr. Weiss: We need to look into the socioeconomic structure of where they are moving to as well. Relocating can be a very difficult process for individual families.</li> <li>Dr. Karen McGlathery: When we think about these issues regarding where people will be relocated to, we should think about it from both the short-term and long-term perspectives. The impacts or consequences of the short-term solutions, moving to higher ground within the jurisdictions, is different from those related to long-term solutions.</li> <li>Dr. Young: I am curious as to how the resilience projects are protecting. In the past, so many of our projects have been guided by federal mandates that require cost-benefit analyses. You have to be aware of what the larger goals are Statewide regarding what projects are promoted. We have to try to mesh together what we as a State decide to protect and what we decide to buyout. They have to be in the same conservation, or you will gentrify the coast.</li> <li>Dr. Weiss: This is the first time that we are preparing this type of document.</li> </ul>			
		<ul> <li>We should not be afraid of making mistakes. You can only learn so much about engineering design from success, you learn much more from making mistakes. Often times, we try to be too perfect the first time. I know we are talking about people's families and their homes. I would like to propose a motion to change the title and intent of the handbook to "Relocation Strategy Development" and use the case studies to this end, as well as add a section on existing gaps and various timeline solutions.</li> <li>Dr. McGlathery: In order to make the document digestible, I suggest putting the case studies at the end. We should add a chapter that highlights key</li> </ul>			

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		<ul> <li>take-home messages as well as knowledge/information gaps to get straight to the information that will be most beneficial to the lay reader at the beginning.</li> <li>Dr. Weiss: I am also thinking that we should have an executive summary in plain language that will allow these takeaways to be highlighted</li> </ul>			
		<ul> <li>Mr. Stiles: Who will be doing all of this work?</li> <li>Dr. Weiss: I will be organizing this work.</li> <li>Dr. Young: Greater context that is specific to Virginia would be helpful.</li> </ul>			
		The motion was moved and seconded. Dr. Weiss conducted a roll call to make the amendment. The motion passed unanimously.			

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3.	Recommendations from Working Groups	Nature-Based Infrastructure Working Group		
		Dr. Weiss: A suggestion from this working group was the idea that living shorelines are good infrastructure programs that should be promoted moving forward.		
		<ul> <li>Dr. Hershner: There are multiple ecosystem services provided by natural features in the coastal zone. That is the argument for why they become important in supporting the urban ecosystem. It is critical to promote them moving forward. The recommendation is not a matter of preserving these natural resources only where they currently exist, but also identifying where they will need to exist in the future due to wetland migration. It is important to create a nature-based infrastructure strategy moving forward.</li> <li>Dr. Weiss: The goal of this recommendation is to provide convincing arguments based on quantitative and qualitative data that these nature-based infrastructure projects are important to the overall coastal resilience strategy.</li> <li>Dr. Hershner: We need a recommendation from this Subcommittee to develop a strategy for the Commonwealth that extends beyond this process.</li> <li>Dr. Young: Having a strategy to advocate for that would be groundbreaking</li> <li>Dr. Hershner: It is necessary to inform the project evaluation process.</li> </ul> Dr. Weiss proposed the motion to create a recommendation to the TAC to ensure that nature-based solutions are prioritized and that a strategy to develop those initiatives is developed. <ul> <li>Dr. McGlathery: We need to quantify the benefits that extend beyond coastal flooding. We do have research that we can speak to try to put numbers on those benefits</li> <li>Dr. Luckenbach: I agree with Carl and add that prioritizing areas by protecting wetlands and making sure that there are places for them to migrate is important. I do not know if that is something that the consultants will be addressing moving forward.</li> <li>Dr. HcClathery: There is a real data gap that is inhibiting those decisions. We need to make a recommendation for better planning metrics for migration, as well as prioritizing areas where migration is likely to happen</li> <li>Ms. Katchmark: The desire to have that strategy is important. Does that process include local staff th</li></ul>		
		areas where marsh migration is likely to happen. The motion was moved and seconded. Dr. Weiss conducted the vote to approve the recommendation. The motion passed unanimously.		

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		<ul> <li>Socioeconomic Working Group</li> <li>Dr. McGlathery: Previously, we had made recommendations regarding the quantitative metrics that the Dewberry group was using in its analysis, so that those metrics would be as complete and up to date as possible. We have thought about qualitative metrics as well. Ashley Montgomery and I worked with students to come up with qualitative metrics for Phase 2 of the CRMP. They are questions that can be answered yes/no, as well as others that are open-ended. These would be included in the community engagement process, but especially during in-person community engagement. There is an extensive list.</li> <li>Ms. Montgomery: The intent is to get the lived experiences of those we are reaching out to so that, when discussing relocation, we have context as to how they feel and their thoughts. We do know there is a gap between high level macro data and people's lived experiences.</li> <li>Dr. McGlathery led the motion to make a commitment to include qualitative information that is spatially explicit and includes the lived experiences of communities who are experiencing climate stress to enhance climate resilience. The motion was moved and seconded. The motion passed unanimously.</li> <li>Dr. Weiss: Thank you for your participation and patience. I have one more motion to propose- a recommendation to look at the CRMP, identify gaps, and do an analysis of strengths, weaknesses, opportunities, and threats. This analysis should take place as soon as possible, perhaps in January.</li> </ul>			
4.	Public Comment Period	Dr. Weiss opened the floor for public comments.			
		Wendy Howard Cooper: There should also be a discussion in the front matter of the importance of equity in any plan or discussion regarding relocation. Some critical points have been made about this during this call. Acknowledgement of historic inequities in this process at the federal, state, and local levels should be part of the front matter. Need to engage those faith-based organizations, social organizations, etc. that know their communities and can make that connection, to ensure that we are doing an equitable job moving forward.			
5.	Wrap-Up and Adjourn	Dr. Weiss asked for a motion to adjourn the meeting. The motion was moved and seconded. The motion passed unanimously, and Dr. Weiss adjourned the meeting at 12:38 pm.			

	Action Items			
#	Action Item	Owner (Organization)	Due Date	
1.				

# Virginia Coastal Resilience Master Plan Technical Advisory Committee – Studies, Research, and Best Practices Subcommittee

If you have any questions, please contact Emily Sokol, Vision Planning and Consulting, at <u>esokol@vision-pc.net</u>.