



MARYLAND COMMISSION
• on • **CLIMATE CHANGE**

Adaptation & Resiliency Working Group



Agenda Item #1

I. **Welcome, Introductions & Review of Agenda**

2:00 - 2:10 pm

Maryland Department of Natural Resources

Decision: Seek approval of February 25, 2019 meeting notes.

Materials: Agenda

[February 25, 2018 draft meeting notes](#)

2019 ARWG Work Plan

[Phase I & II Implementation Table -- 2018 Review of Progress](#)



Agenda Item #2

II. Addressing Increased Precipitation at the Local Level

2:10 - 2:25 pm

Megan Granato (DNR) and Jim George (MDE)

Background: The ARWG 2019 Work Plan states that MDE, DNR, and others will partner to assess the state of the science on projecting climate change impacts on precipitation, with a focus on design storms, which could help Maryland communities better assess their localized flood risks and plan to become more resilient to precipitation-induced flooding. Megan Granato and Jim George have begun collecting information on the state of the science and speaking with relevant partners engaged on this topic.

Discussion: Granato and George will present their research and seek feedback from the ARWG.



Agenda Item #3

III. A Decade of Adaptation in Maryland - Tracking Progress, Renewing Focus

Review of Progress on Phase I & II Adaptation Strategies

2:25 - 2:35 pm

Kim Grubert (DNR)

Options & Discussion for Metrics to Track Progress

2:35 - 3:00 pm

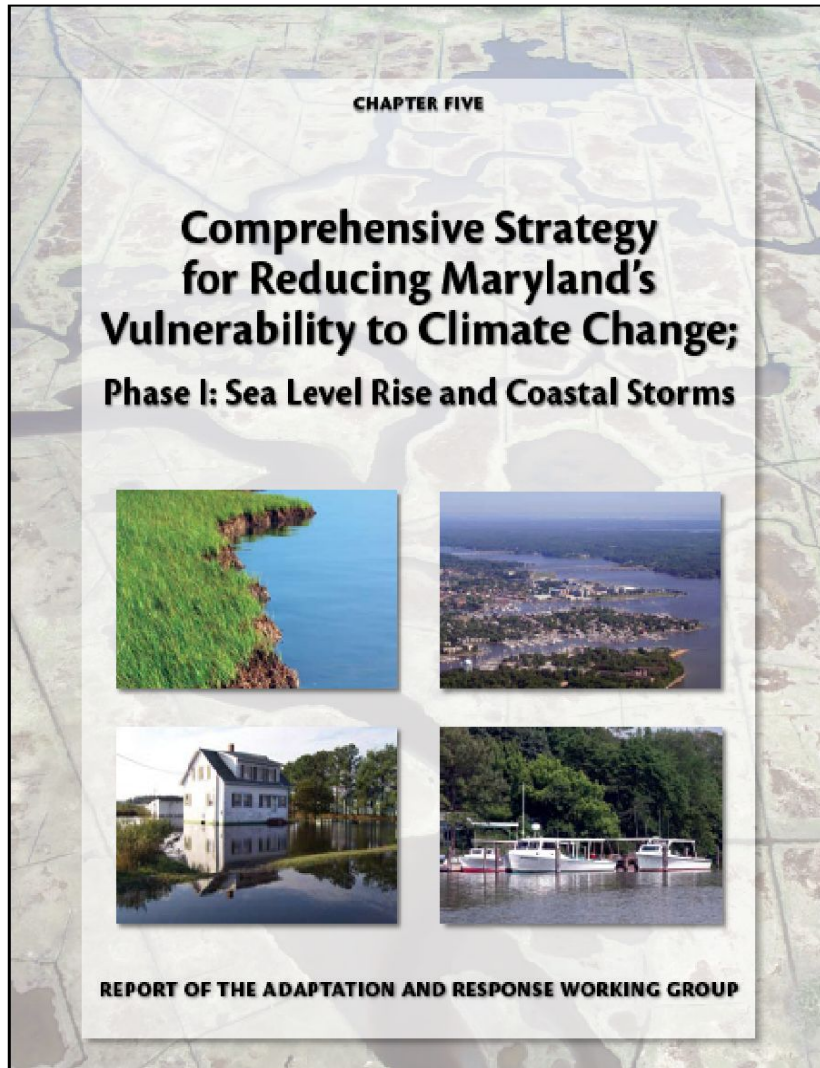
Bill Dennison & Dave Nemazie (UMCES)

Resiliency Milestones - Past and Future Adaptation Progress

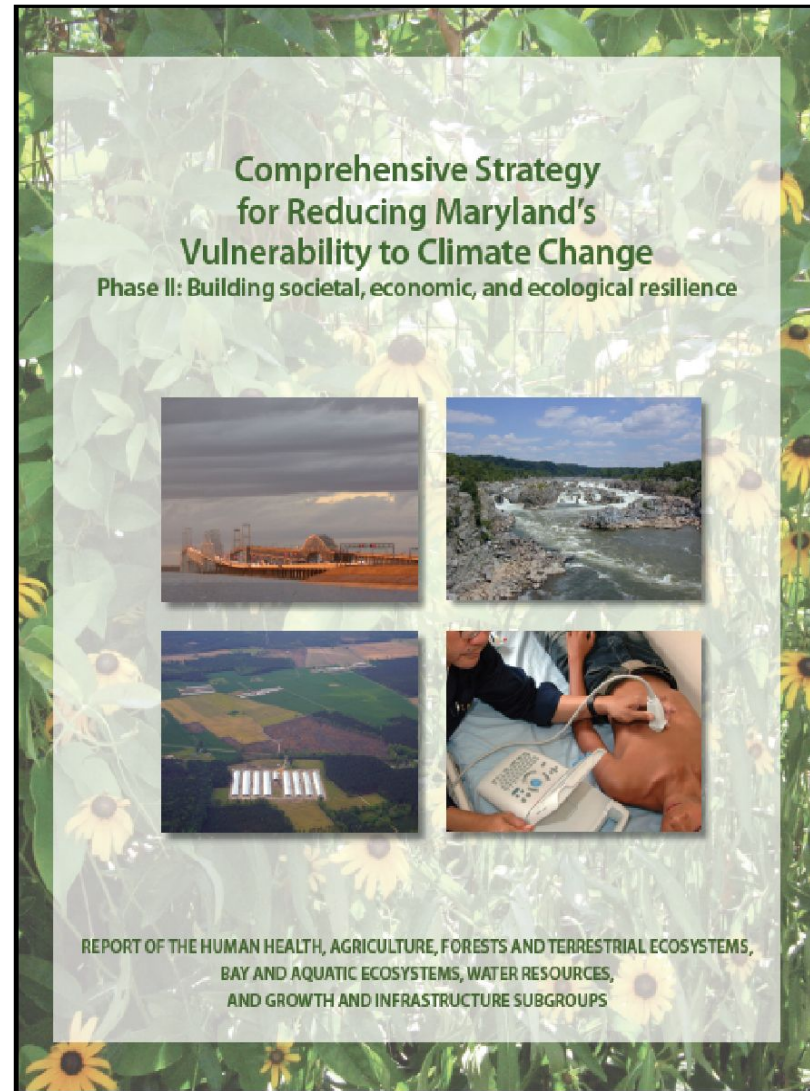
3:00 - 3:30 pm

Catherine McCall (DNR)





2008



2011



Adaptation: Phase I

Adaptation: Phase II

Affected Sectors	Climate Stressor	Climate Vulnerability	Adaptation Strategies
Coastal Zone	<ul style="list-style-type: none"> • Sea level rise • Extreme events 	<ul style="list-style-type: none"> • Submergence of low-lying lands • Increased coastal flooding 	<ul style="list-style-type: none"> • Protect coastal infrastructure • Increase natural vegetative buffers
Human Health	<ul style="list-style-type: none"> • Increased air temp. • Extreme events 	<ul style="list-style-type: none"> • Vector-borne illness • Heat-related health effects 	<ul style="list-style-type: none"> • Designate “cooling centers” • Vector-borne surveillance
Agriculture	<ul style="list-style-type: none"> • Changes in precip. • Sea level rise 	<ul style="list-style-type: none"> • Drought • Salt-water intrusion 	<ul style="list-style-type: none"> • Plant salt tolerant crops • Drought management
Forest & Terrestrial Ecosystems	<ul style="list-style-type: none"> • Changes in precip. • Increased air temp. 	<ul style="list-style-type: none"> • Disease, Fire • Species shifts 	<ul style="list-style-type: none"> • Fire mgmt. and control • Invasive species mgmt
Bay & Aquatic Ecosystems	<ul style="list-style-type: none"> • Sea level rise • Increased water temp. 	<ul style="list-style-type: none"> • Increased salinity • Habitat loss 	<ul style="list-style-type: none"> • Install “living shorelines” • Protect critical habitat
Water Resources	<ul style="list-style-type: none"> • Changes in precip. • Extreme events 	<ul style="list-style-type: none"> • Decreased water supply • Increased flooding 	<ul style="list-style-type: none"> • Create water markets • Improve flood control
Growth & Infrastructure	<ul style="list-style-type: none"> • Changes in precip. • Sea level rise 	<ul style="list-style-type: none"> • Increased population growth • Increased flooding 	<ul style="list-style-type: none"> • “Smart” site and building design • Retrofit stormwater management

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Preparing for Climate Change in Maryland


[Change State](#)

[View Maryland Energy and Emissions Data](#)

This page provides an overview of the steps Maryland is taking to prepare for the impacts of climate change.

On April 20, 2007, Governor Martin O'Malley established the Maryland Commission on Climate Change and directed the Commission to create a Climate Action Plan including measures to reduce greenhouse gas emissions and prepare for the impacts of climate change (**Executive Order 01.01.2007.07**). The 2007 executive order established the Adaptation and Response Working Group within the Commission to develop the adaptation portions of the state's Climate Action Plan. Maryland developed two climate change adaptation plans: a **Comprehensive Strategy for Reducing Maryland's Vulnerability to Climate Change, Phase I: Sea-level rise and coastal storms** (Chapter 5 of the Climate Action Plan; "2008 Plan"), published on September 12, 2008; and a **Comprehensive Strategy for Reducing Maryland's Vulnerability to Climate Change, Phase II: Building societal, economic, and ecological resilience**, published on January 24, 2011 ("2011 Plan"). The 2008 Plan addresses the effects of sea-level rise and coastal storms on the existing and future built environment and infrastructure; the economy; human health, safety and welfare; and natural resources. The 2011 Plan addresses changes in precipitation patterns and increased temperature, and the likely resulting impacts on six sectors: human health, agriculture, forest and terrestrial ecosystems, bay and aquatic ecosystems, water resources, and population growth and infrastructure.

[Read More](#)

 [STATE AGENCY ACTION OVERVIEW](#)


[LOCAL SUPPORT OVERVIEW](#)

Maryland



[Comprehensive Strategy for Reducing Maryland's Vulnerability to Climate Change - Phase II: Building societal, economic, and ecological resilience](#)
Finalized: January 2011

[Comprehensive Strategy for Reducing Maryland's Vulnerability to Climate Change - Phase I: Sea-level rise and coastal storms](#)
Finalized: July 2008

 [SUBMIT AN UPDATE ABOUT THIS STATE'S PROGRESS](#)

2018 Work Plan

6. *Metrics for Tracking Progress:* Work is being undertaken by the Chesapeake Bay Program Climate Resiliency Workgroup to develop indicators of adaptation. ARWG members are engaged in this effort to determine if this work and/or the indicators could be relevant to the ARWG. Staff will coordinate with Chesapeake Bay Program staff in 2018 to hold future discussion about these resilience indicators. In addition, MDP will continue to track progress on the integration of coastal resilience components in comprehensive plans and hazard mitigation plans.

2019 Work Plan

5. *Tracking Progress:* In 2018 the ARWG undertook a review of its Phase I and II Comprehensive Strategy for Reducing Maryland's Vulnerability to Climate Change recommendations to identify progress and highlight gaps and needs. The MCCC 2018 Annual Report called on the ARWG to develop metrics for tracking adaptation progress, and while this review was a start, more could be done to standardize metrics. In 2019, MDNR will convene a group of ARWG members to discuss possible metrics for tracking progress. In support of this work, MDP will continue to track progress on the integration of coastal resilience components in comprehensive plans and, with guidance from MEMA, hazard mitigation plans, and MDH will continue to track climate adaptation projects happening across the state via the Maryland Environmental Public Health Climate Adaptation Tracker online mapping portal. The ARWG will also consider the merit of developing a Phase III Strategy based on where progress can continue to be made. An update will be provided at the second quarter (Q2) ARWG meeting.

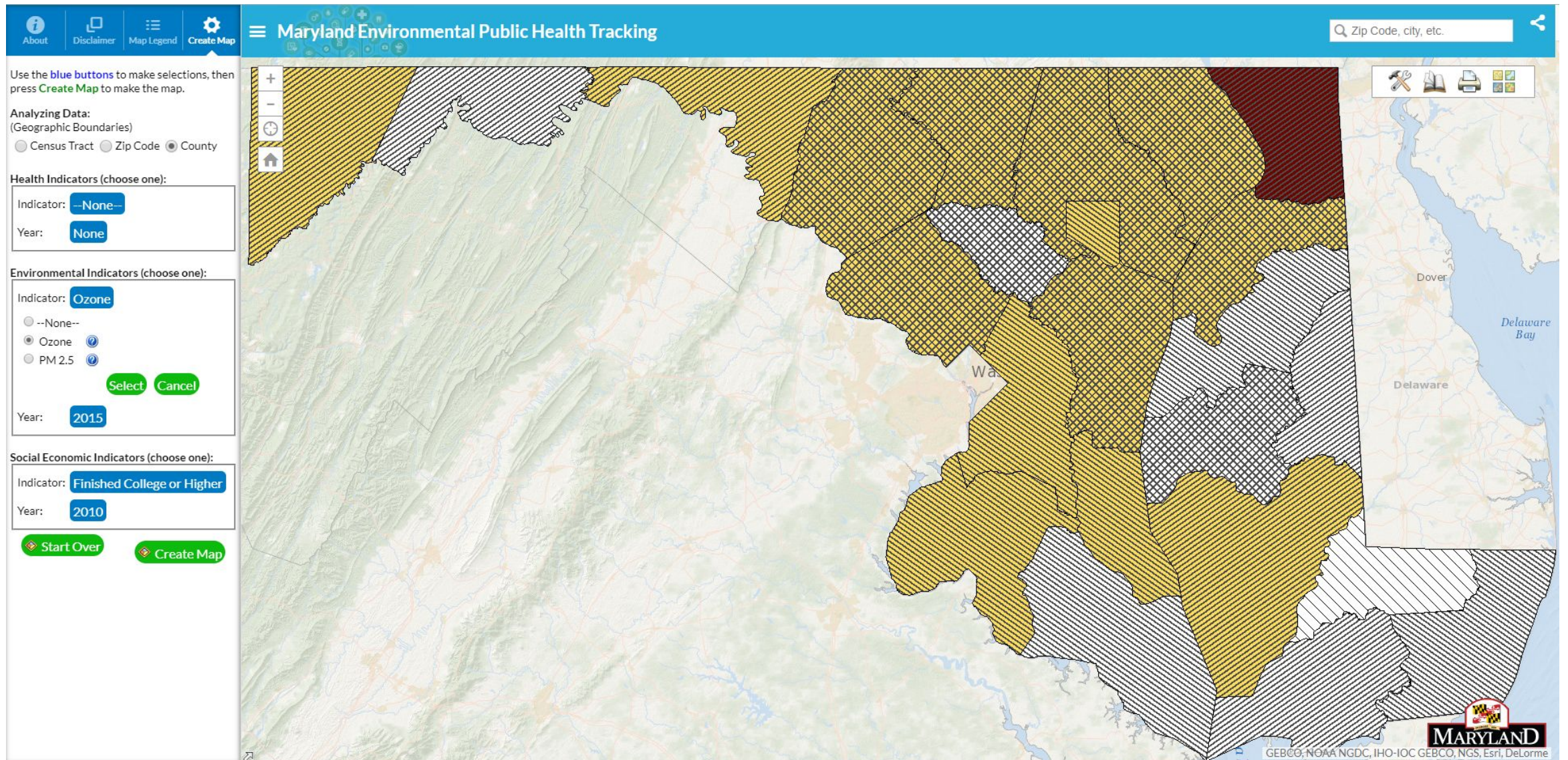
County - Comprehensive Plans	General Terms Used			Specific Climate Change Hazards Mentioned											
	Climate Change (General)	Sea Level Rise	Coastal Resiliency	Coastal Hazards			Precipitation Variability				Extreme Weather				Air Quality
				Hurricanes	Storm Surge	Coastal Inundation	Precipitation Variability*	Winter Storms	Drought	Dam Failure	Wind	Tornados	Heat	Wildfires	
Allegany (2014)	✓						X								
Anne Arundel (2009)		✓		X	X	X			X						
Baltimore City (DP3) (2013)	✓	✓			✓		✓	✓		✓	✓		✓		✓
Baltimore County (2010)	✓	✓			X										
Carroll (WRE) (2010)	✓						✓		✓	X					
Charles (2016)	✓	✓		✓	✓	✓	✓	✓	✓			✓		✓	X
Harford (2016)		✓	✓		✓		X								X
Howard (2012)	✓	✓					✓		✓					✓	✓
Kent (2006)		✓								X					X
Montgomery (County Climate Protection Plan) (2009)	✓	✓		✓	✓		✓		✓		✓		✓	✓	X
Prince George's (2014)	✓	✓					✓								X
Queen Anne's (2010)	✓	✓			✓		✓								
St. Mary's (2010)	climate variability	✓		X			X	X	X		X	X	X	X	
Talbot (2016)	✓	✓		✓	✓		✓	X	X				X	X	
Wicomico (2017)	✓	✓			✓	✓	X								
Worcester (2006)		✓		X			X							X	

Key:
 ✓ = direct link
 x = indirect link

*Includes inland flooding, extreme storm events



<https://maps.health.maryland.gov/epht/>





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6	Priority Recommendations	Action Strategies	Lead Agency	Key Partners	Implementation Priority	Implementation Timeframe	2018-2019 Progress Update
1	MARYLAND COMMISSION ON CLIMATE CHANGE						
2	Implementation Guidance Table - 2018 Review of Progress						
3	Phase I: Sea-Level Rise and Coastal Storms		Implementation Priority: L (Low); M (Medium); H (High – Needs Immediate Action); TBD (To Be Determined)				
4	Phase II: Building Societal, Economic and Ecological Resilience		Implementation Timeframe: Ongoing (a component of an existing program); Short (1 -3 years); Medium (3 – 5 years); Long-Term (5 + years); TBD (To Be Determined)				
5			Implementation Cost: Low (\$0 - \$100,000); Medium (\$100,000 - \$200,000); High (\$200,000 +); TBD (To Be Determined)				
6			Major Progress	Some Progress	No Progress		
7	PHASE I: Sea-Level Rise and Coastal Storms						
8	Reduce Impact to Existing and Future Growth and Development						
9	Take action now to protect human habitat and infrastructure from future risks	Require the integration of coastal erosion, coastal storm, and sea level rise adaptation and response strategies into existing state and local policies and programs.	DNR/MDP	MDE, MDOT, DHCD, local governments	High	Ongoing	Local adaptation planning: in 2017 MDP conducted an assessment of the extent to which County Comprehensive Plans addressed climate change. As of 2018 it is still not a requirement; MDP supports encouraging but not mandating adaptation planning in county comprehensive plans. MHT has developed a guidance document for flooding and historic properties that addresses adaptation options; the guidance is complete and awaiting approval for rollout. State adaptation planning: the Coast Smart Council siting and design requirements help to meet this action strategy.
10		Develop and implement State and local adaptation policies (i.e., protect, retreat, abandon) for vulnerable public and private sector infrastructure.	DNR	MDP, MDE, MDOT, local governments	High	Ongoing	State adaptation policies: All lands that come through DNR Land Acquisition and Review are reviewed not only for a parcel's coastal hazard vulnerability (e.g. sea level rise, storm surge) but also the parcel's potential to enhance coastal resilience. Continued work is needed to develop prioritization policies on the issue of "protect, retreat, abandon" Local adaptation policies: MDP worked with Eastern Shore Land Conservancy to develop a model Coastal Resilience Element that can be used by local governments to develop adaptation policies.
11		Strengthen building codes and construction techniques for new infrastructure and buildings in vulnerable coastal areas.	DHCD/DNR	MDP, MDOT, MDE, local governments	High	Ongoing	Maryland State Finance and Procurement Code Ann. § 3-602.3, requires that as of July 1, 2015, if a State capital project includes the construction of a structure or reconstruction of a structure with substantial damage, the structure shall be constructed or reconstructed in compliance with the siting and design criteria established by the Council. The Coast Smart Construction Program includes guidelines and other directives applicable to the preliminary planning and construction of proposed capital projects to address sea level rise and coastal flood impacts, including a requirement that the lowest floor elevation of proposed structures located within a Special Flood Hazard Area be built at an elevation of at least 2 feet above the base flood elevation.
12	Financial and Economic Well-Being						
13	Minimize risks and shift to sustainable economies and investments	Develop and implement long-range plans to minimize the economic impacts of sea level rise to natural resource-based industries.	Department of Commerce	DNR	Medium	Long	The Maryland Outdoor Recreation Economic (MORE) Commission is scoping out the spectrum of outdoor recreation industries and needs in Maryland. This is co-chaired between DoC and DNR. DNR is also conducting a state lands climate vulnerability assesment to assess risk.
14		Establish an independent Blue Ribbon Advisory Committee to advise the State of the risks that climate change poses to the availability and affordability of insurance.	MIA	DNR	High	Complete	What were the outcomes? Is there any future need?
15		Recruit, foster, and promote market opportunities related to climate change adaptation and response.	Department of Commerce	DNR	Low	Long	Preliminary discussions with insurance industry during ARWG May 2018 meeting.
16	Protection of Human Health, Safety and Welfare						

Adaptation: Phase I

Adaptation: Phase II

Affected Sectors	Climate Stressor	Climate Vulnerability	Adaptation Strategies
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16	Protection of Human Health, Safety and Welfare						



Agenda Item #3

III. A Decade of Adaptation in Maryland - Tracking Progress, Renewing Focus

Review of Progress on Phase I & II Adaptation Strategies

2:25 - 2:35 pm

Kim Grubert (DNR)

Options & Discussion for Metrics to Track Progress

2:35 - 3:00 pm

Bill Dennison & Dave Nemazie (UMCES)

Resiliency Milestones - Past and Future Adaptation Progress

3:00 - 3:30 pm

Catherine McCall (DNR)

Agenda Item #3

III. A Decade of Adaptation in Maryland - Tracking Progress, Renewing Focus

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Kim Grubert (DNR)

Options & Discussion for Metrics to Track Progress

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Resiliency Milestones - Past and Future Adaptation Progress

3:00 - 3:30 pm

Catherine McCall (DNR)

Resiliency Milestones - Past and Future Adaptation Progress

- What does climate awareness, integration or institutionalization currently look like in your organization?
- Forward Focus Topics:
 - Equity
 - Sub-topic of precipitation/riverine systems
 - Financial investments, procurement, asset management
- Preferences for organizational construct to discuss metrics and new targets?

ADAPTATION AND RESPONSE WORKING GROUP

Chair: Secretary John R. Griffin, Maryland Department of Natural Resources

SCIENTIFIC AND TECHNICAL WORKING GROUP

Chair: Donald F. Boesch, University of Maryland Center for Environmental Science

Human Health subgroup

Lead Author: Joel Scheraga (US Environmental Protection Agency)

Contributing authors: Sania Amr (University of Maryland), Russell Dickerson (UMD), J. Morgan Grove (US Department of Agriculture Forest Service), Clifford Mitchell (Maryland Department of Health and Mental Hygiene), Kimberly Mitchell (MD DHMH) John Sherwell (Maryland Department of Natural Resources), and Konstantin Vinnikov (UMD)

Agriculture subgroup

Lead author: Frank Coale (University of Maryland)

Contributing authors: Arvydas Grybauskas (UMD), Robert Kratochvil (UMD), Stephen McHenry (Maryland Agricultural and Resource-Based Industry Development Corporation), Connie Musgrove (University of Maryland Center for Environmental Science), Douglas Parker (UMD), Daphne Pee (UMD), Jennifer Timmons (UMD Extension), John Rhoderick (Maryland Department of Agriculture), and Lewis Ziska (US Department of Agriculture)

Forests and Terrestrial Ecosystems subgroup

Lead author: Christine Conn (MD DNR)

Contributing authors: Sally Claggett (USDA Forest Service/Chesapeake Bay Program), Bert Drake (Smithsonian Environmental Research Center), Joel Dunn (The Conservation Fund), Matthew Fitzpatrick (UMCES), Anne Hairston-Strang (MD DNR), David Inouye (University of Maryland), Dana Limpert (MD DNR), William Miles (Association of Forest Industries, Inc.), Douglas Samson (The Nature Conservancy), and Eric Sprague (Pinchot Institute of Conservation)

Bay and Aquatic Ecosystems subgroup

Lead author: Zoë Johnson (MD DNR)

Contributing authors: Britta Bierwagen (US EPA), Nancy Butowski (MD DNR), Carol Cain (Maryland Coastal Bays Program), David Curson (Audubon MD-DC), Patricia Delgado (Maryland-Chesapeake Bay National Estuarine Research Reserve), Robert Hilderbrand (UMCES), Paula Jasinski (NOAA Chesapeake Bay Office), Susan Julius (US EPA), Beth McGee (The Chesapeake Bay Foundation), Jonathan McKnight (MD DNR), Thomas Parham (MD DNR), Chelsie Papiez (MD DNR), Douglas Samson (The Nature Conservancy), David Secor (UMCES), and Scott Stranko (MD DNR)

Water Resources subgroup

Lead author: Andrew Miller (University of Maryland Baltimore County)

Contributing authors: Allen Davis (UMD), Jason Dubow (Maryland Department of Planning), Jeff Halka (Maryland Geological Survey), William Hewes (American Rivers), Ronald Klauda (MD DNR), Lyn Poorman (Maryland Department of Environment), Jeff Raffensperger (USGS MD-DC), Sean Smith (MD DNR), and Claire Welty (UMBC)

Population Growth and Infrastructure subgroup

Lead author: Gerrit Knaap (University of Maryland)

Contributing authors: Marty Baker (Maryland Department of Transportation), Peter Claggett (USGS/Chesapeake Bay Program), Zoë Johnson (MD DNR), Christopher Pyke (US Green Building Council), Dru Schmidt-Perkins (1000 Friends of Maryland), and Joseph Tassone (MDP)

Adaptation 2020: Organizational Approach

- Issues and sectors that are priorities for your organization now and into the next decade?
- Example: (assess - evaluate strategies - adopt changes)
DNR Recreational Lands Resilience Strategy
 - State recreational lands vulnerable to flooding and changes in temperature/seasons
 - Impedes public access; creates public safety concerns; affects budgeting and staffing
 - Understand short- and long-term considerations and integrate priorities into capital improvements and emergency maintenance funding
 - Build awareness about changes to recreational industries and economies



Agenda Item #4

IV. Additional Work Plan Updates

3:30 - 3:50 pm

Background: This section of the agenda allows for brief updates each quarter on several work plan items and allows ARWG members to ask clarifying questions and provide feedback on work plan progress.

Topics include:

- Phase III Watershed Implementation Plan, *Matt Rowe (MDE)*
- Coast Smart Legislation Amendments, *Emily Vanieri (OAG)*
- Nuisance Flood Plans, *Catherine McCall (DNR)*
- Saltwater Intrusion Plan, *Jason Dubow (MDP)*
- Climate Leadership Academy, *Matt Fleming (DNR)*

Discussion: Speakers will provide a 5-minute update on each topic. ARWG members are encouraged to come prepared with questions for clarification or discussion.



Agenda Item #5

V. Meeting Recap & Next Steps
Department of Natural Resources

3:50 - 4:00 pm

Call for Additional Updates

Membership Assignments: Metrics Tracking and/or Resilience Milestones

Upcoming Dates:

- Next MCCC meeting: Tuesday, May 21, 2019 10 am - 12 pm at MDE
- 2019 ARWG meetings at DNR:
 - Summer TBD - Membership Metrics or Milestones Meetings
 - August 5
 - November 18





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