

Scientific and Technical Working Group Meeting

April 21, 2023
2:00 - 3:30 pm

By ZOOM

Join Zoom Meeting

<https://umces-edu.zoom.us/j/84389857130?pwd=aGxkUElnVEI4eWltbktlUXlVMjFDZz09>

Meeting ID: 843 8985 7130

Passcode: 202823

Dial by your location

+ 13017158592,,84389857130#,,,,*202823# US (Washington DC) (Washington DC)

Meeting Objectives:

- Update on MCCC and STWG Activities
- Identify key points from the IPCC Final AR6 Synthesis Report or relevance to MCCC
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Meeting Agenda

Times shown are approximate only

1. Welcome, Introductions, and Roll Call
Peter Goodwin, STWG Chair
2. Approval of February Meeting Summary
3. Update on MDE Activities for the MCCC
Mark Stewart (MDE) (10 minutes)
4. Update on Maryland 2023 Sea Level Rise Projections. *Don Boesch. (5 minutes)*
5. Biofuel Accounting. *Vimal Amin (20 minutes)*
6. Findings of the IPCC AR6 Synthesis Report relevant to MCCC (30 minutes)
STWG discussion, Report is available at <https://www.ipcc.ch/report/sixth-assessment-report-cycle/>
7. Public Comment. *[5 minutes]*
8. Summary of Action Items and Closure [Krieg] *[2 minutes]*

2023 Publications of Relevance to the Maryland Commission on Climate Change

General Interest

White House announcement on release of Nature Based Solutions Roadmap. November 2022.
<https://www.whitehouse.gov/briefing-room/statements-releases/2022/11/08/fact-sheet-biden-%E2%81%A0harris-administration-announces-roadmap-for-nature-based-solutions-to-fight-climate-change-strengthen-communities-and-support-local-economies/>

IPCC Working Group II Sixth Assessment Report: Climate Change 2022 - Impacts, Adaptation and Vulnerability: <https://www.ipcc.ch/report/ar6/wg2/>

American Society of Civil Engineers
Responding to Code Red
Civil Engineering January 2022. 36-45

Impacts of Future Weather and Climate Extremes on United States Infrastructure: Assessing and Prioritizing Adaptation Actions
Book authored by the ASCE Task Committee on Future Weather and Climate Extremes. December 2021.

Which racial/ethnic groups care most about climate change?
<https://climatecommunication.yale.edu/publications/race-and-climate-change/>

Professor Matt Fitzpatrick (UMCES) on the shifting climate of America's cities.
<https://www.bostonglobe.com/2021/06/29/metro/boston-has-seen-baltimore-style-heat-june-it-might-be-preview-summer-comes/>
The tool is available at:
<https://www.umces.edu/futureurbanclimates>

Location of Maryland's Air Monitoring Stations
<https://mde.maryland.gov/programs/Air/AirQualityMonitoring/PublishingImages/MonitoringNetwork.png>

NOAA National Integrated Heat Health Information System
<https://nihhis.cpo.noaa.gov/>

NOAA analysis of new climate normals
<https://www.noaa.gov/news/new-us-climate-normal-are-here-what-do-they-tell-us-about-climate-change>

Maryland's Coast Smart Climate Ready Action Boundary (CRAB) Tool
<https://mdfloodmaps.net/CRAB/>

Policy

Inequitable patterns of US Flood risk in the Anthropocene.

O.E.J. Wing et al.

[Nature Climate Change](https://www.nature.com/natureclimatechange) | VOL 12 | February 156 2022 | 156–162 | www.nature.com/natureclimatechange

Opportunities for U.S. State Governments and in-Region Partners to Address Ocean Acidification through Management and Policy Frameworks. Turner, J. et al., August 1, 2021

<https://www.tandfonline.com/doi/full/10.1080/08920753.2021.1947126>

Additional background on BIL/IIJA implementation in Maryland:

<https://mde.maryland.gov/programs/air/ClimateChange/MCCC/Commission/Governors%20Infrastructure%20Subcabinet%20presentation.pdf>

Science

EPA. Climate Change Indicators

<https://www.epa.gov/climate-indicators>

Technology

Maryland Energy Innovation Accelerator: Creating Investible Clean Energy Businesses
October Newsletter and signup for updates

<https://mdeia.org/>

International Energy Agency.

Dramatic action is required in the next decade to have any hope of achieving a net-zero goal by 2050, IEA said. Where electric vehicles now account for 5% of global automobile sales, they will need to represent 60% of new automobile purchases in 2030. Annual renewable installations, which hit a record 280 gigawatts last year, will need to exceed 1,000 GW. And energy efficiency improvements will need to grow by 4% annually, roughly three times their current rate. Read the article:

<https://www.scientificamerican.com/article/net-zero-emissions-by-2050-are-possible-landmark-report-says/>

Future World Vision: Mega City 2070

futureworldvision.org (available after February 22, 2022).

Engineering

American Society of Civil Engineers (August 2022)

Objective Resilience: Policies and Strategies
Manual of Practice 146

Objective Resilience: Objective Processes
Manual of Practice 147

Objective Resilience: Technology
Manual of Practice 148

Objective Resilience: Applications
Manual of Practice 149
Further details available [at ASCE](#):

Human Health

Maryland Climate and Health Program webpage:

https://health.maryland.gov/phpa/OEHFP/EH/Pages/climate_change.aspx

Maryland Environmental Public Health Climate Adaptation Tracker:

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

Webinars and Other Events

Webinars

Workshop: Nature-Based Solutions. November 30, 2022. <https://mailchi.mp/nas/register-now-measuring-what-matters-comprehensive-and-equitable-evaluation-of-benefits?e=223b065c1c>

Workshop: Exploring Best Practices for Large-scale Marsh Persistence and Restoration in the Chesapeake Bay.

October 6, 2022. Virtual and In-person

Maryland Sea Grant and Chesapeake Bay Sentinel Site Cooperative

*Collaborative activities on blue carbon in Maryland
Living Shorelines in Practice - Enhancing Coastal Resilience*

<https://drive.google.com/file/d/18grfKQesGi6yHGoKpmI61iRZ0kYCS64v/view>

<https://mde.maryland.gov/programs/Air/ClimateChange/MCCC/STWG/Blue%20Carbon%20in%20Maryl and%20presentation.pdf>

*Collaborative activities on blue carbon in Maryland: Living Shoreline webinar
Living Shorelines in Practice - Enhancing Coastal Resilience*

Coastal Adaptation Report Card. 2021

<https://www.youtube.com/watch?v=v4ivioWna94&t=20s>

https://virginia.planning.org/conferences-and-meetings/mid-atlantic-planning/?utm_medium=email&utm_source=govdelivery&utm_term=

Recordings:

Adaptation For All

is available at: <https://nlintheusa.com/adaptation-for-all/>

Flood Resilience in the Year Ahead: Opportunities for the New Congress

is available to watch here: <https://www.youtube.com/watch?v=dI91vyl6GYw>