

Scientific and Technical Working Group Meeting

August 18, 2023

2:00 - 3:15 pm

By ZOOM

<https://umces-edu.zoom.us/j/81913871322?pwd=bFBCT0ZDTnN5enpNWmJ4UFMzdTRFQT09>

Meeting ID: 819 1387 1322

Passcode: 057392

Dial by your location +1 301 715 8592 US (Washington DC)

Meeting Objectives:

- Overview of Climate Justice within the context of MCCC and Climate Solutions Now Act
- Preliminary STWG discussion on recommendations for the 2023 Annual Report
- Updates on other STWG activities

Meeting Agenda

Times shown are approximate and subject to change

1. Welcome, Introductions, and Roll Call
Bill Dennison/Peter Goodwin (STWG Chair)
2. Approval of July Meeting Summary
3. MDE Updates on MCCC Activities [5 minutes]
(Chris Beck, MDE)
4. Overview of the Climate Justice Working Group and Discussion on Embedding CJ into the work of the MCCC
Charmaine Brown, MCCC Co-Chair and MCCC Lead on Climate Justice (40 minutes)
5. Preliminary Ideas for the MCCC Annual Report [see attached outline] (15 minutes)
6. Other STWG Activities, Relevant Publications or Announcements from STWG members. (5 minutes)
MCCC members may be interested in the recent ASCE guidelines (led by Professor Bilal Ayyub)
See below in the Engineering section
7. Public Comment. [5 minutes]
8. Summary of Action Items [2 minutes]

REMINDER

September STWG Meeting: September 15, 2:00-3:30pm.

Topics: 1. 2023 Annual Report

2. Meet the new State Climatologist, Dr. Alfredo Ruiz-Barradas, Department of Atmospheric and Oceanic Science, University of Maryland.

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-normals-are-here-what-do-they-tell-us-about-climate-change>

Maryland's Coast Smart Climate Ready Action Boundary (CRAB) Tool

<https://mdfloodmaps.net/CRAB/>

Environmental Justice

Scientific American/E&E News, 2023.

[*This part of the US. will suffer most from climate change*](#)

Centers for Disease Control and Prevention: Environmental Justice Index
<https://www.atsdr.cdc.gov/placeandhealth/eji/index.html>

FEMA : National Risk Index of Natural Hazards
<https://www.fema.gov/flood-maps/products-tools/national-risk-index>

EPA (2022): EJ Screen
<https://www.epa.gov/ejscreen>

White House (2023): Climate and Economic Justice Screening Tool
<https://screeningtool.geoplatform.gov/en/#3/33.47/-97.5>

Policy

Inequitable patterns of US Flood risk in the Anthropocene.
O.E.J. Wing et al.

[Nature Climate Change](#) | 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 (June 2023)
[Resilience Toolkit](#)
[ASCE-NOAA Workshops to Inform Engineering Design](#)

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>

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%20Maryland%20presentation.pdf>

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>