

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-summers-come/ 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:

 $\frac{https://mde.maryland.gov/programs/air/ClimateChange/MCCC/Commission/Governors\%20Infrastructure\%20Subcabinet\%20presentation.pdf$

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:

 $\underline{https://www.scientificamerican.com/article/net-zero-emissions-by-2050-are-possible-landmark-report-says/net-zero-possible-landmark-report-says/net-zero$

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