

Scientific and Technical Working Group Meeting

October 15, 2021, 2:00 - 3:30pm

<https://zoom.us/j/94314135387?pwd=M09IV1ISVTBUanZkM0xaYm5nUIVhUT09>

Meeting ID: 943 1413 5387 Passcode: 340287

AGENDA

Objectives: Review Draft Science Section for MCCC 2021 Annual Report
Review Draft STWG recommendations and 2022 STWG Workplan
Times shown are approximate only

1. Welcome, Introductions and Roll Call
Peter Goodwin, STWG Chair
2. Approval of September Meeting Summary
3. Public Comment [10 minutes]
4. Update on Cows and Methane emissions [Dave/Adel] [5 minutes]
5. MCCC Annual Report [All] [40 minutes]
 - Science Section
 - STWG Recommendations
 - STWG Workplan
6. 'Pop-Up' Significant Science Findings and Emerging Technologies of Relevance to MCCC
STWG Members invited to make comment. [10 minutes]
7. Potential Topics for STWG Webinars [5 minutes]
8. Summary of Action Items and Closure (Nemazie)

Recent Publications of Relevance to the Maryland Commission on Climate Change

General Interest

Which racial/ethnic groups care most about climate change?

<https://climatecommunication.yale.edu/publications/race-and-climate-change/>

New EU Climate Change Plan

July 14, 2021

<https://www.bbc.com/news/world-europe-57833807>

Current Heatwave affecting US Northwest and Canada

<https://www.bbc.com/news/world-us-canada-57678054>

Current Heatwave Virtually Impossible without Climate Change

<https://www.bbc.com/news/science-environment-57751918>

with further details behind the study at:

<https://www.worldweatherattribution.org/>

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-come/>

The tool is available at:

<https://www.umces.edu/futureurbanclimates>

EPA Releases Delayed Climate Report

<https://www.bbc.com/news/world-us-canada-57095347>

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/>

Center for Progressive Reform: Impacts of Toxic Floodwaters in VA:

<http://progressivereform.org/our-work/energy-environment/virginia-toxic-floodwaters/>

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/>



Policy

EDF, Recapturing U.S. Leadership on Climate: Setting an ambitious and Credible Nationally Determined Contribution. March 2021.

<https://www.edf.org/climate/recapturing-us-climate-leadership>

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>

Science

EPA. Climate Change Indicators 2021

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

Special Section. **Science**. 18 June 2021. p1224-1299. Fallback Strategies: Planning for Climate-Induced Relocation.

Wang, J., Chen, Y., Tett, S.F.B. *et al.* Anthropogenically-driven increases in the risks of summertime compound hot extremes. **Nat Commun** 11, 528 (2020).

<https://doi.org/10.1038/s41467-019-14233-8>

Technology

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

<https://mdeia.org/>

Preparing for Wind and Water
Civil Engineering. ASCE. July 2021

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/>



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

UMCES Fall Webinar Series on Climate Change

<https://www.usmf.org/s4c/>

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>

1st IAHR Online Forum (replaces the Biennial World Congress due to COVID).

Two sessions of potential interest to MCCC

Future of Water Infrastructure: <https://www.iahr.org/index/detail/412>

Nature-Based Solutions for Water Security: <https://www.iahr.org/index/detail/414>

