

Scientific and Technical Working Group Meeting
September 17, 2021, 2:00 - 3:30pm

AGENDA

Welcome, Introductions and Roll Call (Peter Goodwin, chair)

Approval of Minutes of July Meeting

IPCC AR6 Physical Basis. [30 minutes]

 Overview (Rachel Lamb and Tassew Mekuria) [10 minutes]

 Relevance to Maryland (All)

 Maryland's contributions to regional and global priorities (All)

Status Update on Ocean Acidification (Dave Nemazie) [5 minutes]

Status Update on Blue Carbon (Lamb and Mekuria) [5 minutes]

2021 MCCC Annual Report [30 minutes]

Update of Climate Science Section

Recommendations for addressing specific gaps-in-knowledge that could inform MCCC actions.

'Pop-Up' Significant Science Findings and Emerging Technologies of Relevance to MCCC
STWG Members are invited to comment. [10 minutes]

Public Comment. [5 minutes]

Summary of Action Items and Closure (Dave Nemazie)

Recent Publications of Relevance to the Maryland Commission on Climate Change

General Interest

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-summer-comes/>

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>

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>

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

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 of Relevance to Maryland Commission on Climate Change.

Recording

Adaptation For All

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

Recordings

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>