



Select Publications and Resources for Climate Change Adaptation Supplement to Powerpoint Presentation

General Interest

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/>

Shifting climate of America's cities (to be expanded globally) .

<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>

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 Commission on Climate Change

<https://mde.maryland.gov/programs/air/ClimateChange/MCCC/Pages/index.aspx>

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

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

EPA Carbon Footprint Calculator

<https://www3.epa.gov/carbon-footprint-calculator/>

Water Footprint Calculator (Arjen Hoekstra)

<https://www.pbs.org/wgbh/molecule-that-made-us/home/water-footprint/>

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>

Science

Armstrong, D.I, McKay et al. 2022. Exceeding 1.5oC global warming could trigger multiple climate tipping points. *Science* 377, eabn7950 (2022) DOI: 10.1126/science.abn77950. September 9.

Anderegg, W.R.L. et al., 2022. A climate risk analyses of Earth's forests in the 21st century. *Science* 377 (6610). p1099-1103.

EPA. Climate Change Indicators
<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.*, 2020. Anthropogenically-driven increases in the risks of summertime compound hot extremes. *Nat Commun* 11, 528.
<https://doi.org/10.1038/s41467-019-14233-8>

Technology

Decarbonizing the Power Grid
<https://www.redoxblox.com>

Developing a Research Agenda and Research Governance Approaches for Climate Intervention Strategies that Reflect Sunlight to Cool Earth
<https://www.nationalacademies.org/our-work/developing-a-research-agenda-and-research-governance-approaches-for-climate-intervention-strategies-that-reflect-sunlight-to-cool-earth>

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/>



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](#):

Future World Vision: Mega City 2070
futureworldvision.org

Hill, A.C et al., 2019. Ready for Tomorrow: Seven Strategies for Climate Resilient Infrastructure. A Hoover Institution Essay. 20p.

Webinars and Other Events

Webinars

<https://drive.google.com/file/d/18grfKOesGi6yHGoKpml61iRZ0kYCS64v/view>

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

Maryland 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=

Mitigating Climate Change - NSF 2021 Workshop
<https://web.cvent.com/event/c630ff92-7038-4d79-904d-09f0d8331622/summary>

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=dI91vy16GYw>