Making it local, making it real: Free communication tools from Climate Central

Karen Florini - Vice President for Strategic Impact kflorini@climatecentral.org



About Climate Central

- Climate science research and communications NGO
- Non-advocacy
- Chiefly B2B
- Accurate, effective, ubiquitous climate communications



(f) the Guardian

Truthful climate reporting shifts viewpoints, but only briefly, study finds

Ohio State University researchers gauged responses to climate science versus scepticism and suggest facts bear repeating

Jun 20th (177 kB) -





- Climate Matters
- WeatherPower
- Climate Shift Index
- Realtime Climate
- Sea Level Rise



CLIMATE MATTERS





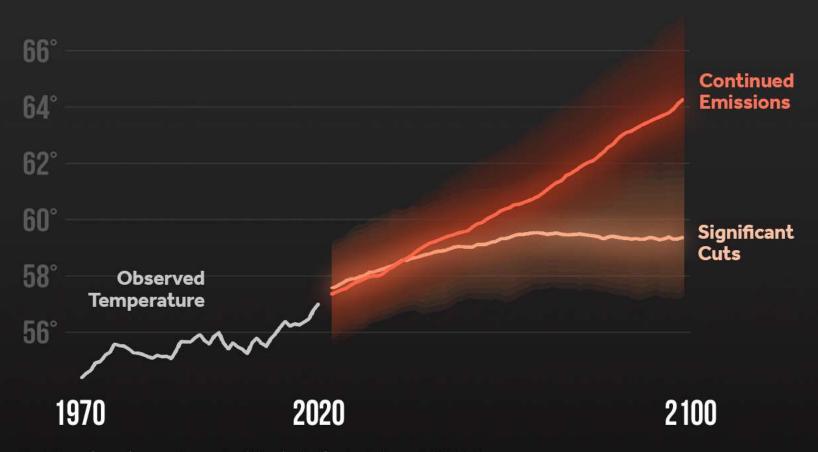
DAYS ABOVE 90°



Change in annual days above 90° based on rate of change since 1970. Source: RCC-ACIS.org

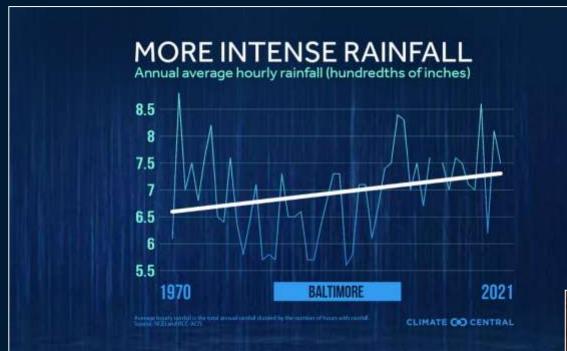


FUTURE WARMING CHOICES

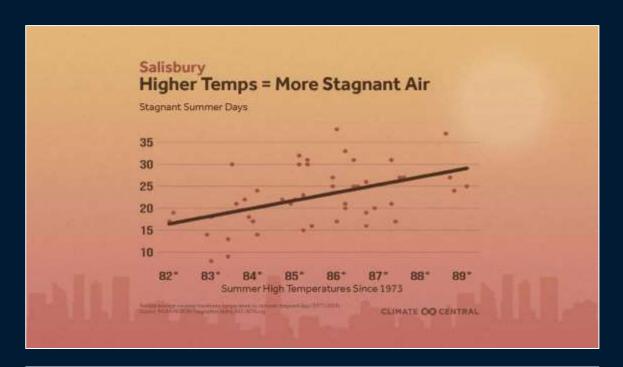


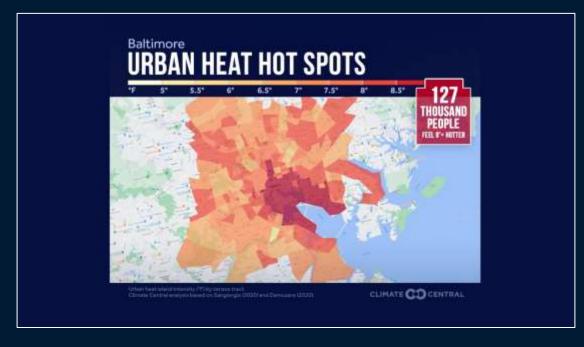
Projections of annual average temperature (°F) under significant emissions cuts (SSP1-2.6) or continued emissions (SSP3-7.0) Source: CMIP6

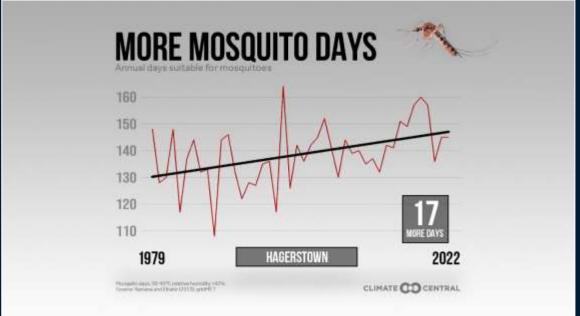
CLIMATE (CENTRAL













KEY CONCEPTS

- Plants are learning and biocoming earlier, and the overall growing season is facting longer across much of the U.S.
- Analysis of compensative data for 2018 U.S. other shows the freeze-free season lengthened by some than two weeks (f) days) on average since years.
- For welliams of Assertions that selfer Treat seasonal allergies to guilles and mold. Chaste change is bitriging on earlier, longer, and overall versic allergy women.
- Others Central's new report Segment Allegan. Police and Minifferent Inner of the weather and climate transcribed that are womening allergy segment and the appropriated health rules.



provid present

MARCH 2023

Seasonal allergies: pollen and mold



CLIMATE CO CENTRAL

CONTACT EXPERTS

Lewis Ziska, PhD

Associate Professor, Environmental Health Sciences
Mailer School of Public Health, Columbia University Irving Medical Center
Relevant expertise: connections between climate change, carbon dioxide,
plant biology, and public health

Media contact: Stephanie Berger, sb2247@cumc.columbia.edu

Jesse Bell, PhD (he/him/his)

Claire M. Hubbard Professor of Water, Climate and Health College of Public Health, University of Nebraska Medical Center Relevant expertise: extreme weather, climate change, and health Contact: jesse beliliburum; edu

Brooke Lappe, MPH

PhD candidate
Rollins School of Public Health, Emory University
Relevant expertise: climate change, air quality, pollen and health
Contact: brooke lappe@emory.edu

FIND EXPERTS

Find a local allergist or immunologist listed through the American Academy of Allergy, Asthma and Immunology.

Submit a request to SciLine from the American Association for the Advancement of Science or to the Climate Data Concierge from Columbia University. These free services rapidly connect journalists to relevant scientific experts.

Browse maps of climate experts and services at regional NOAA, USDA, and Department of the Interior offices.

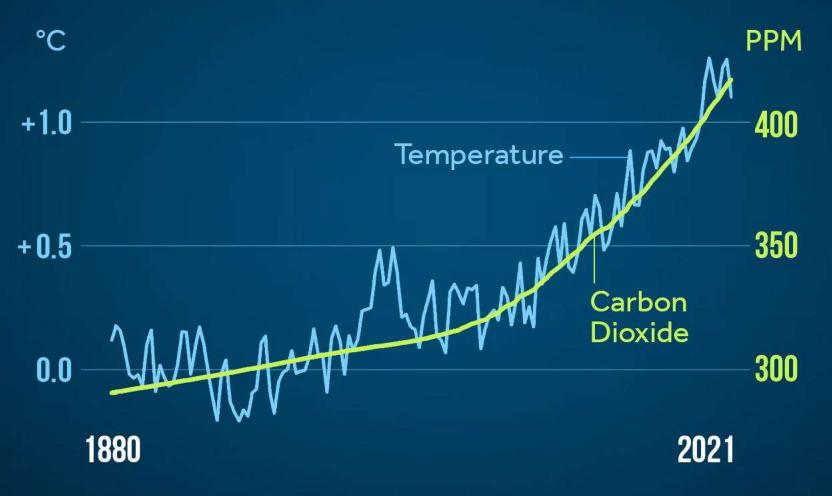
Explore databases such as 500 Winnen Scientists, BIPOC Climate and Energy Justice PhDs, and Diverse Sources to find and amplify diverse expert voices.

Reach out to your State Climate Office or the nearest Land-Grant University to connect with scientists, educators, and extension staff in your local area.

METHODOLOGY

The growing season is the difference between the last day below 32°F from January through July and the first day below 32°F from July through December. Years with growing seasons of less than two weeks were dropped from the analysis (e.g., beginning June 30, ending July 3). This condition only impacted a handful of years in Bend, Ore, and Butte, Mont. Forty-four stations that did not have a regular growing season and were on average frost-free for most of the year were excluded completely.

TEMPERATURE & CARBON DIOXIDE



Global temperature anomalies averaged and adjusted to early industrial baseline (1881-1910) Source: NASA GISS, NOAA NCEI, ESRL

CLIMATE (*) CENTRAL

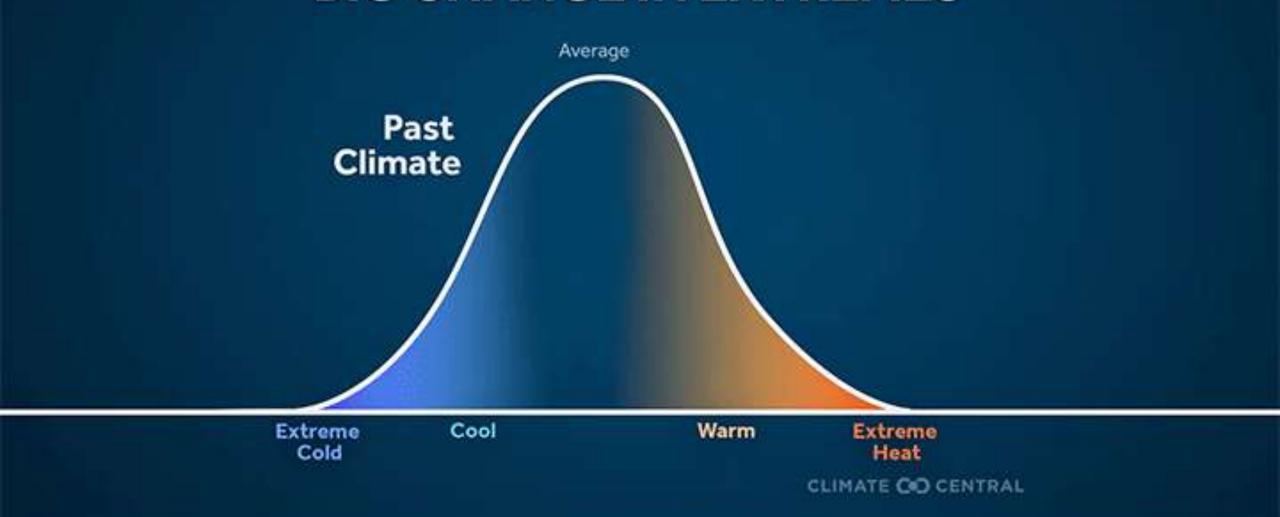
METHANE CONCENTRATION



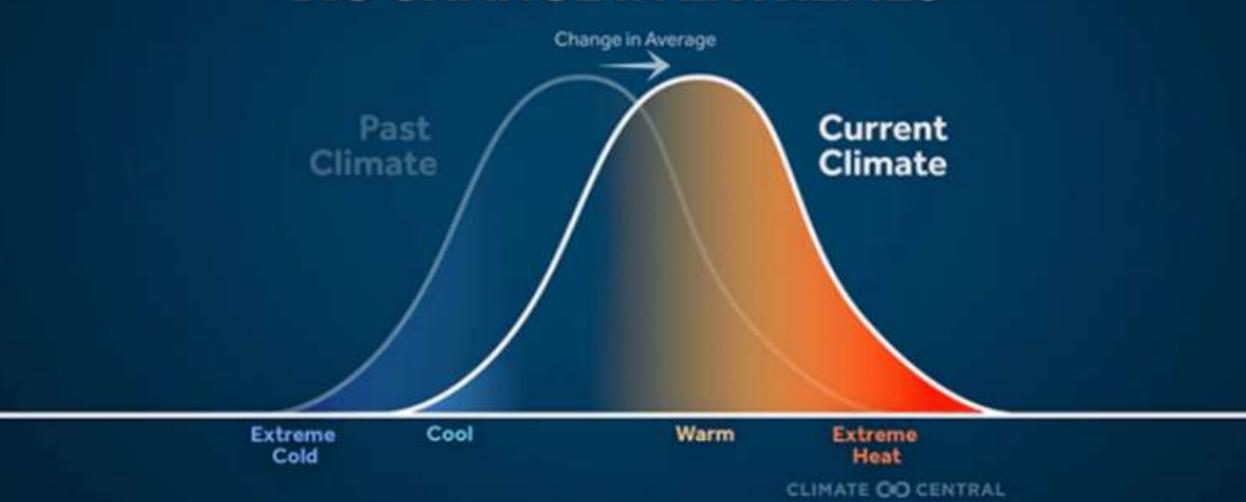
Atmopsheric methane concentration Source: US EPA

CLIMATE (*) CENTRAL

SMALL CHANGE IN AVERAGE BIG CHANGE IN EXTREMES



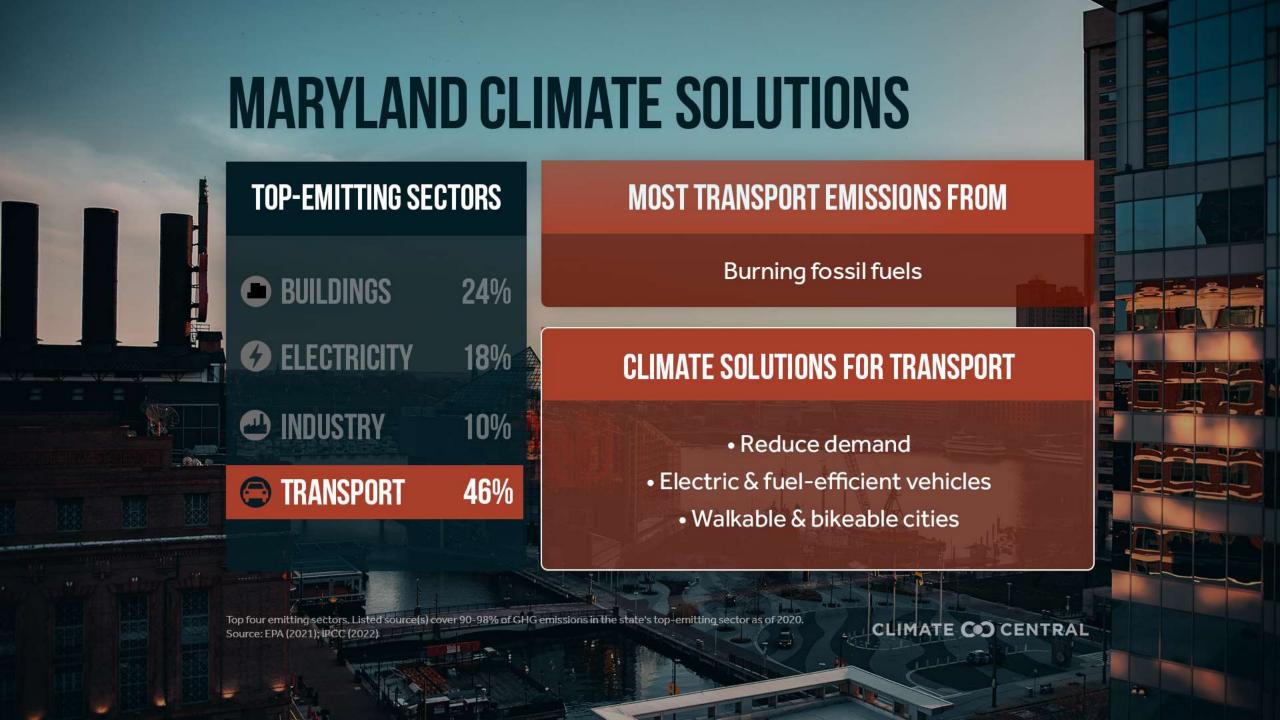
SMALL CHANGE IN AVERAGE BIG CHANGE IN EXTREMES



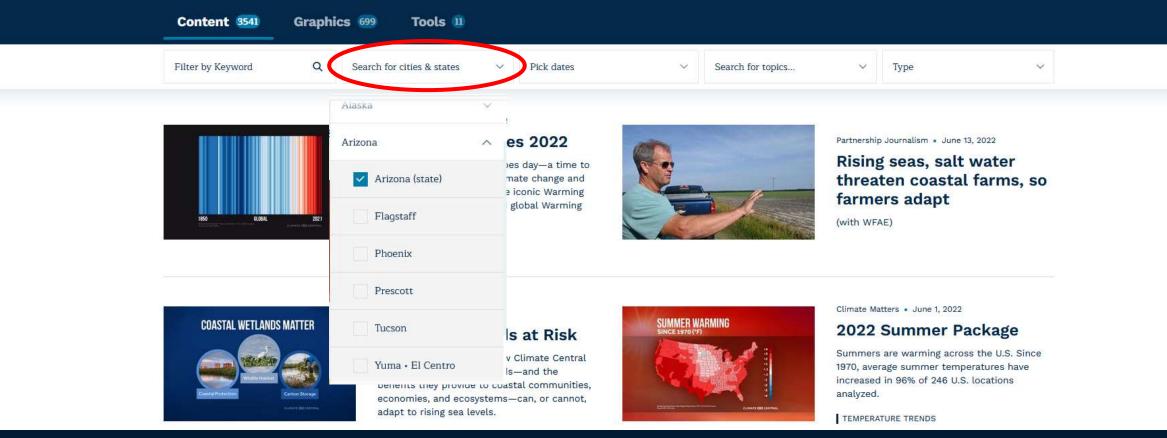








Resources



- Climate Matters
- WeatherPower
- Climate Shift Index
- Realtime Climate
- Sea Level Rise

- State
- Media Market
- County
- Congressional District

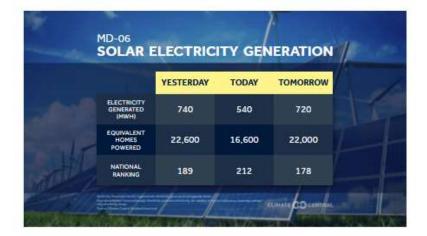
MARYLAND SOLAR ELECTRICITY GENERATION

	YESTERDAY	TODAY	TOMORROW
ELECTRICITY GENERATED (MWH)	8,200	7,100	8,200
EQUIVALENT HOMES POWERED	253,000	220,000	252,000
HOME ENERGY SAVINGS	117%	101%	112%

Electricity Generated (mwh): Approximate electricity generated in megawatt-hours.

Equivalent H average daily Home Energ array on its r Source: Clim

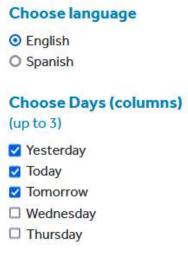
weatherpower.climatecentral.org

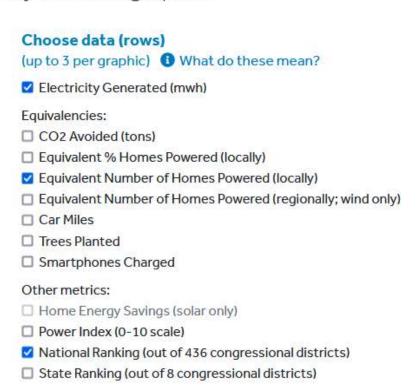




Customize and download a production-ready forecast graphic:

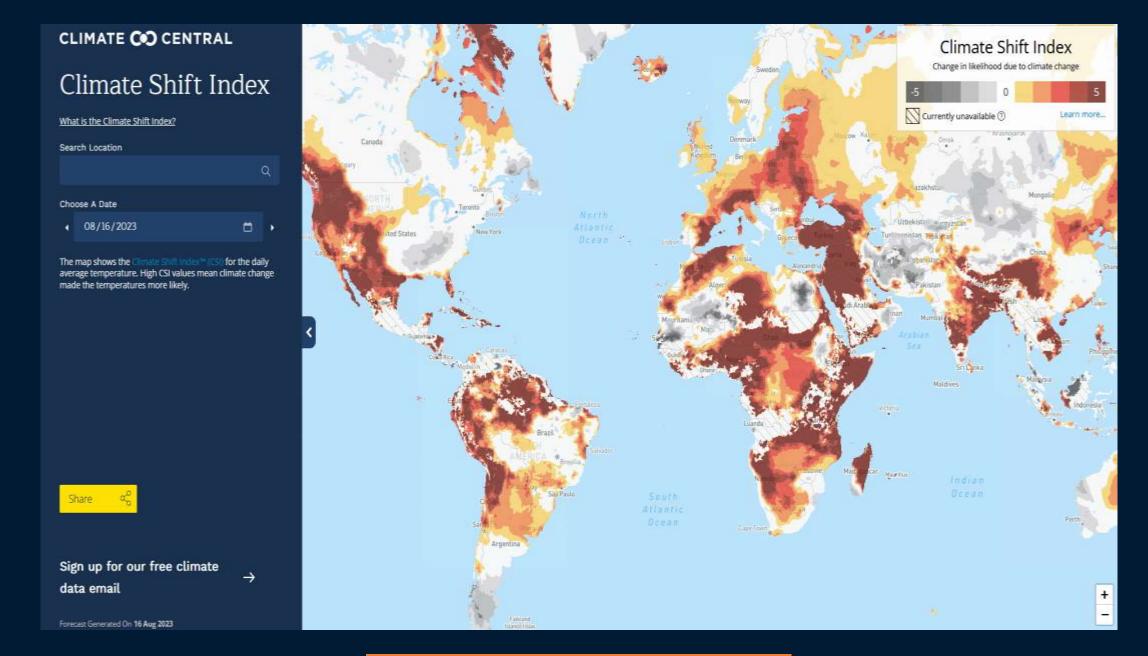
Choose graphic ○ Wind ○ Solar Choose background ○ Wind/solar image ○ Black ○ Transparent ✓ Include title

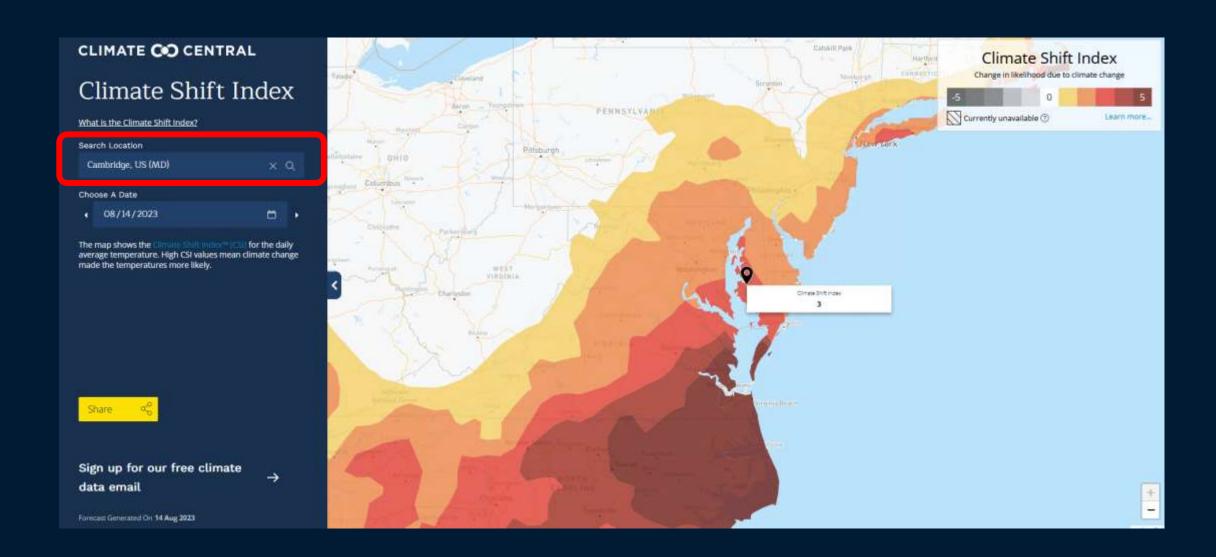




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From: Sean Sublette <ssublette@climatecentral.org>

Sent: Monday, August 24, 2020 11:05 AM

To

Subject: more August heat

Hi Daniel,

We've noticed the heat is continuing for Minneapolis. Below is a new graphic for the month that can help you tell the climate story. You can find similar ones in our media library.



Share this on Twitter

Additional versions available:

In Spanish

With no title

With no title and a transparent background

Email me if you have questions.

Thanks,

Sean

Click here if you don't want more Realtime Climate alerts like this

_tirstname]

From: Sean Sublette

To

Sent: Dec. 15, 2020 10:13am

Subject: Alert: see how much wind energy Burlington is producing - today

Hi Janel

Looks like it's especially windy in Burlington. Here's a graphic showing how much wind electricity is now being generated in your area. Create your own customized and downloadable version with different ways to show the data - including equivalent numbers of trees planted, carmiles driven, smartphones charged, and more - using our WeatherPower tool.

Email me if you have questions.

Thanks,

Sean

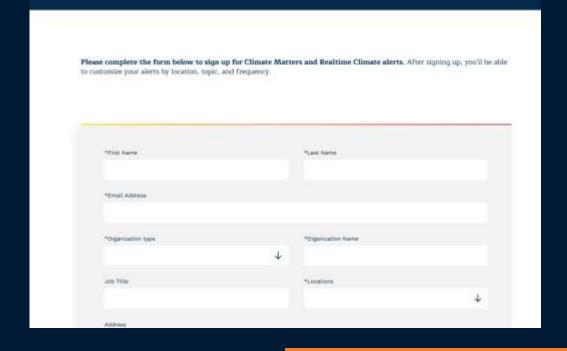


Get the high-res version here.



Sign up for Climate Matters and Realtime Climate

Get local climate analysis and customizable as-it-happens email alerts



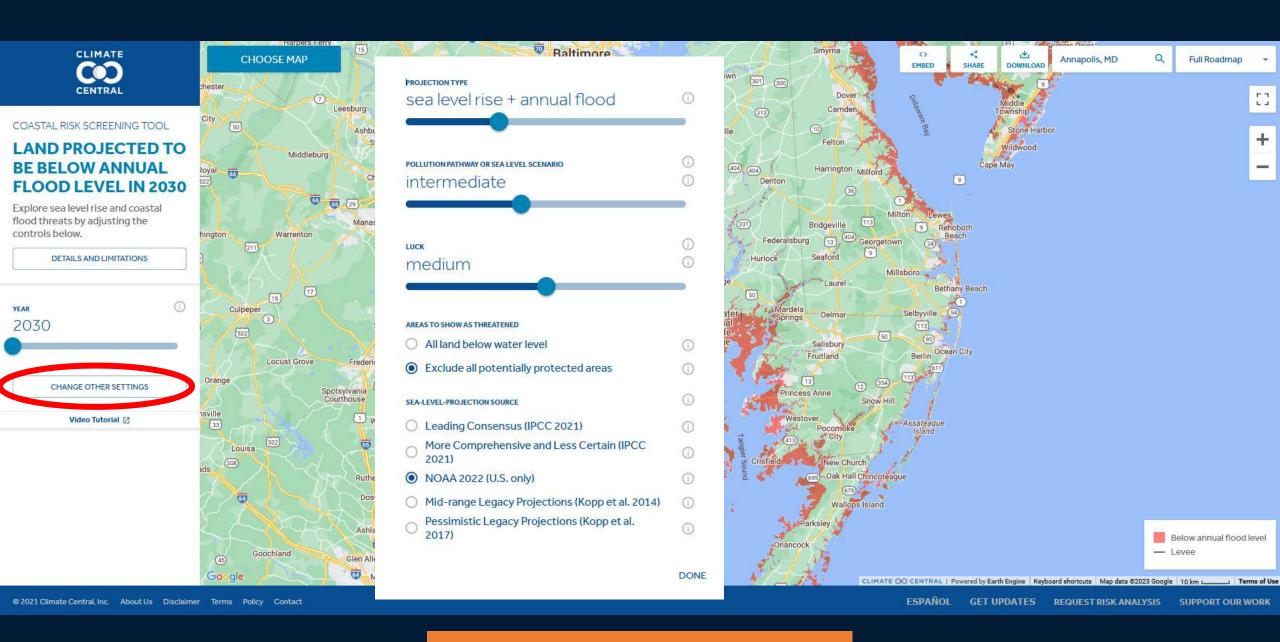


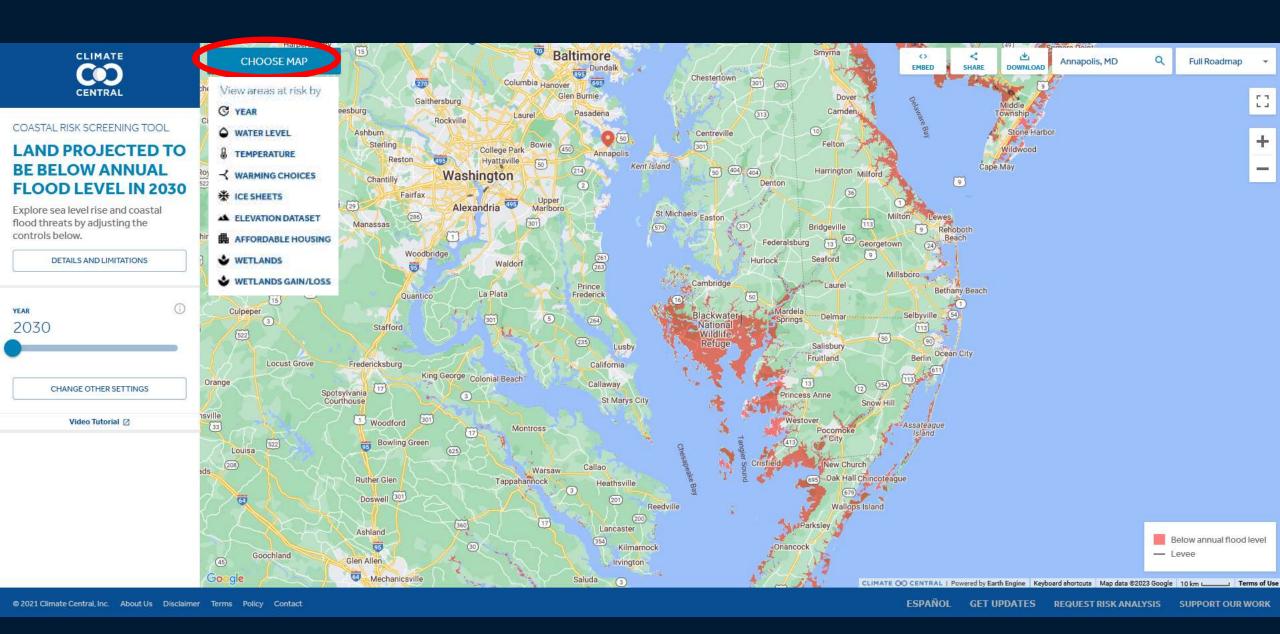




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- Sea Level Rise
 - Coastal Risk Screening Tool
 - Risk Finder
 - Picturing Our Future
 - FloodVision







LAND BELOW 4.0 FEET OF WATER

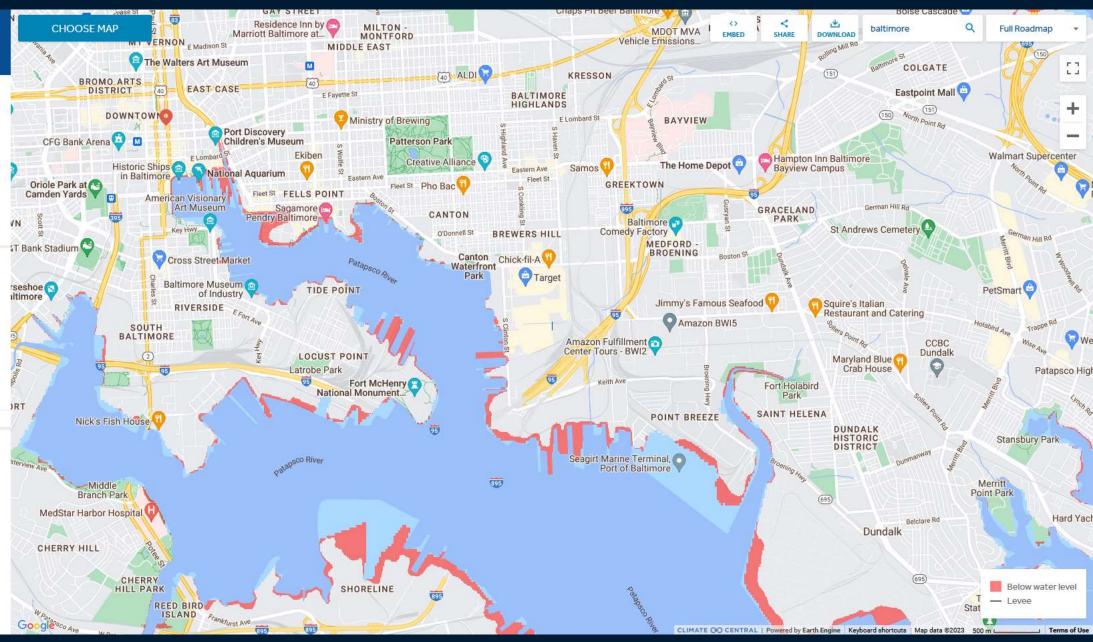
A water level of 4.0 feet above the high tide line could be reached through combinations of sea level rise, tides, and storm surge.

DETAILS AND LIMITATIONS

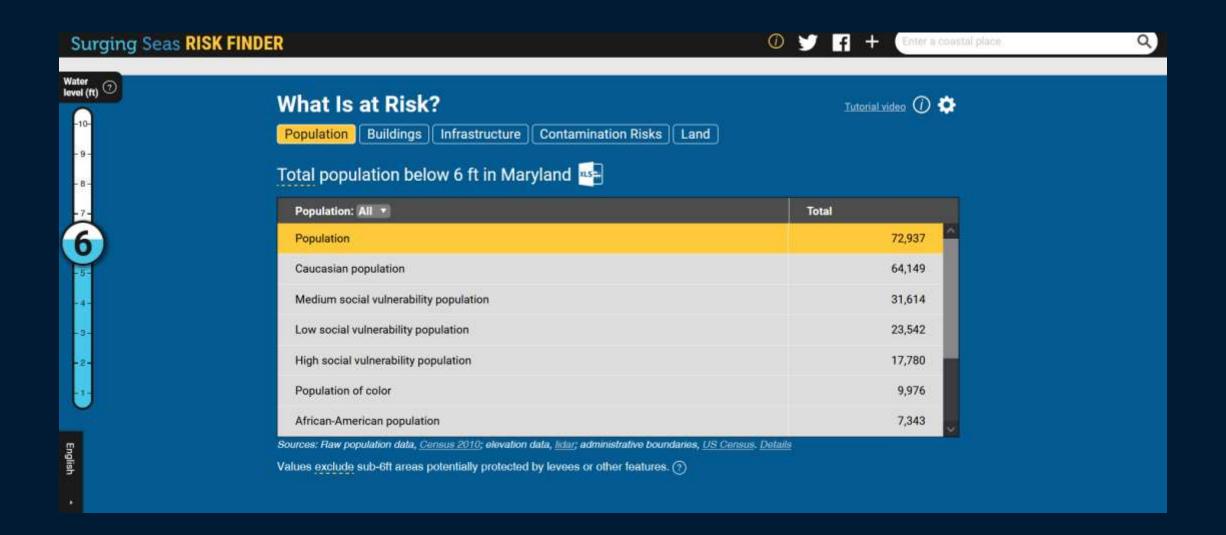
WATERLEVEL
4.0 ft

Feet Meters

CHANGE OTHER SETTINGS



- Sea Level Rise
 - Coastal DEM/Coastal Risk Screening Tool
 - Risk Finder
 - Picturing Our Future
 - FloodVision





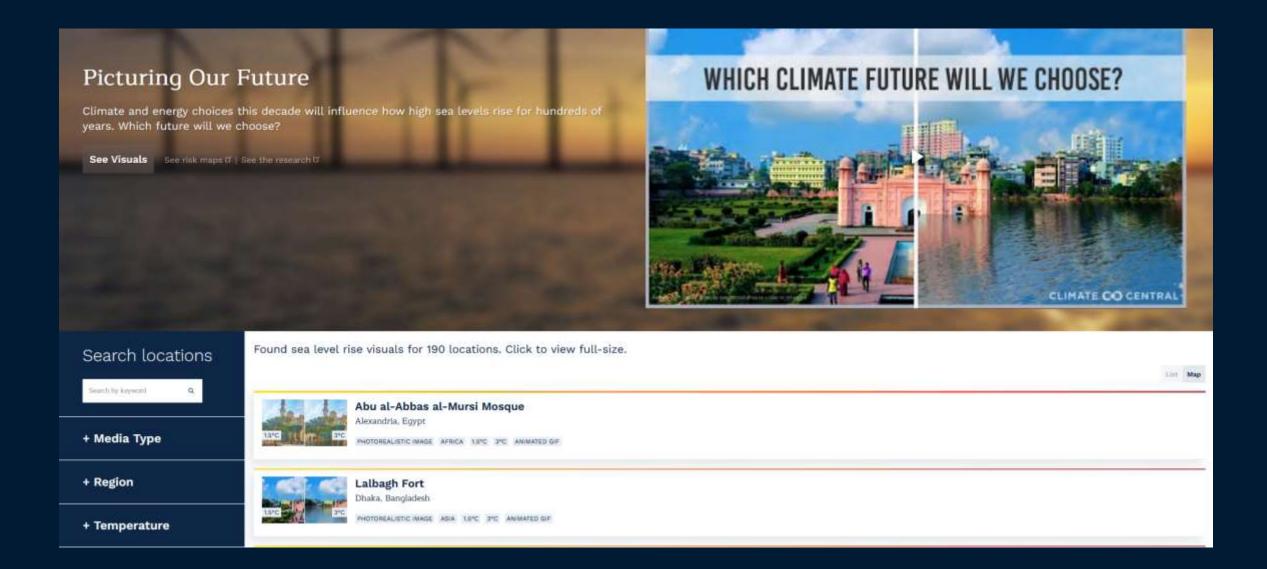
Places within Maryland

- Counties
- Postal Codes
- Congressional Districts
- State Senate Districts
- State Assembly Districts
- Metropolitan Planning Organizations
- Towns



Key tools & programs

- Sea Level Rise
 - Coastal Risk Screening Tool
 - Risk Finder
 - Picturing Our Future
 - FloodVision











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go.climatecentral.org/floodvision







Estimated % of adults who think global warming is happening (nat'l avg. 72%), 2021 Select Question: Global warming is happening Click map or: Select a State Select a County Absolute Value National States Cong. Districts Metro Areas Counties 85%-80%-75%-70%-San F 55%-35%-30% -25%-20% 15%-10% -5% -0% -Hopplulu UCSB Climate Change Communication UNIVERSITY OF CALIFORNIA SANTA BARBARA

Beliefs

Global warming is happening

Global warming is caused mostly by human activities

Most scientists think global warming is happening

Global warming is affecting the weather

Has personally experienced the effects of global warming

Risk Perceptions

Worried about global warming

Global warming will harm plants and animals

Global warming will harm future generations

Global warming will harm people in developing countries

Global warming will harm people in the US

Global warming will harm me personally

Global warming is already harming people in the US

Policy Support

Fund research into renewable energy sources

Citizens should do more to address global warming

Corporations should do more to address global warming

Local officials should do more to address global warming

My Governor should do more to address global warming

Congress should do more to address global warming

Regulate CO2 as a pollutant

Set strict CO2 limits on existing coal-fired power plants

Require utilities to produce 20% electricity from renewable sources

Provide tax rebates for energy-efficient vehicles or solar panels

Require fossil fuel companies to pay a carbon tax

Drill for oil in the Arctic National Wildlife Refuge

Expand offshore drilling for oil and natural gas off US coast

Schools should teach about global warming

The President should do more to address global warming

Global warming should be a high priority for the next President and Congress

Behaviors

Discuss global warming at least occasionally

Hear about global warming in the media at least once a week



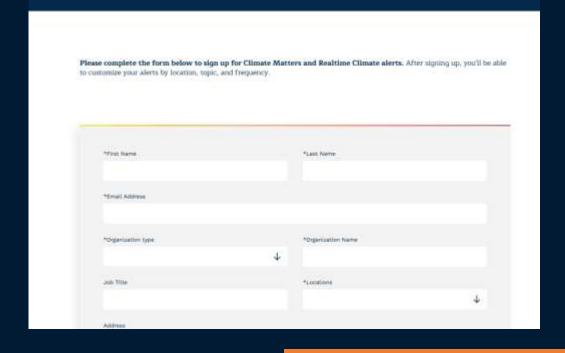
MARYLAND Public Opinion on Climate Change, 2021 Public opinion data come from the Yale Climate Opinion Maps (YCOM), which are based on a statistical model that employs nationally representative Climate Change in the American Mind (CCAM) surveys conducted between 2008 and 2021. The model combines geographic, census, socioeconomic, and political data with CCAM survey data collected by the Yale Program on Climate Change Communication and George Mason University Center for Climate Change Communication (combined n > 28,000). For more information about the survey question wording and methodology, please visit YCOM: climatecommunication.yale.edu/visualizations-data/ycom-us Beliefs Global warming is caused mostly by human activities Global warming is happening Most scientists think global warming is happening 66% Global warming is affecting the weather Maryland counties **Risk Perceptions** Global warming will harm future generations Worried about global warming 77% Global warming will harm people in the developing countries 74% Global warming will harm people in the US Maryland Global warming will harm me personally 52% Maryland counties Behaviors Discuss global warming at least occasionally 40% Hear about global warming in the media at least once a week 33%



≈ https://www.climatecentral.org/media-signup

Sign up for Climate Matters and Realtime Climate

Get local climate analysis and customizable as-it-happens email alerts









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