

About Climate Central

- A climate science research and communications NGO, founded in 2008 and based in Princeton, NJ
- Non-partisan, non-advocacy
- Localized, evidence-based information on climate science, impacts, & solutions

CLIMATE MATTERS

Partnerships Journalism

Surging Seas

R T N A

RADIO TELEVISION DIGITAL NEWS ASSOCIATION



theCaroleKneelandProject
FOR RESPONSIBLE JOURNALISM

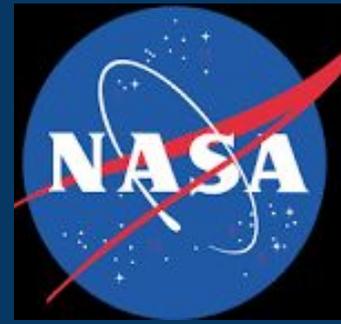


NATIONAL ASSOCIATION OF
HISPANIC JOURNALISTS
ASOCIACION NACIONAL DE
PERIODISTAS HISPANOS



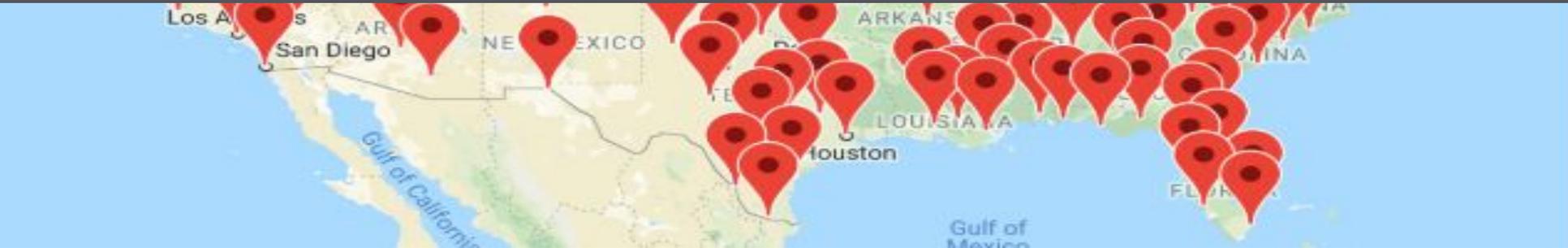
Climate Matters in the Newsroom

A free, science-based, localized, climate change reporting resource program for weathercasters and journalists—in English & Spanish



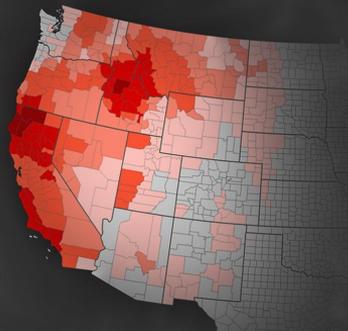


906 TV Meteorologists, 615 Journalists



SMOKE WAVE DAYS

Wildfire Air Pollution



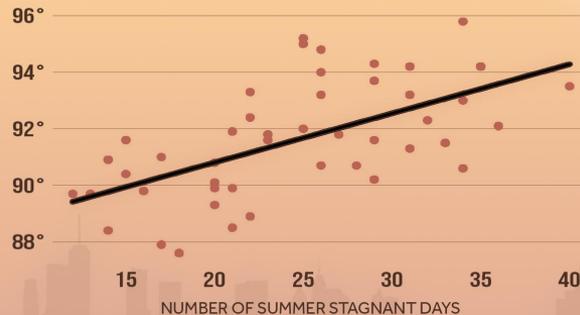
Smoke Wave Day = a day with a PM_{2.5} concentration of at least 20 µg/m³ (PM_{2.5} = Particulate matter smaller than 2.5 µm)
 Source: Liu et al, 2017 Data: 2004-2009

CLIMATE CENTRAL

MACON

HIGHER TEMPERATURES = MORE STAGNANT AIR

SUMMER MAXIMUM TEMPERATURES SINCE 1973



Annual average summer maximum temperature vs. summer stagnant days (1973-2018)
 Source: NOAA/NCCEI Air Stagnation Index, RCC-ACIS.org

CLIMATE CENTRAL

LONGER GROWING SEASON = LONGER ALLERGY SEASON

CONSECUTIVE DAYS ABOVE FREEZING



Source: RCC-ACIS.org
 Days between the annual last and first occurrence of 32°F. Produced 3/27/2019.

CLIMATE CENTRAL



Mayor Aumento en Temporada de Mosquitos

MÁS DÍAS DE MOSQUITOS

1. Baltimore, MD
2. Durham, NC
3. Minneapolis, MN
4. Myrtle Beach, SC
5. Raleigh, NC
6. Portland, ME
7. St. Louis, MO
8. Pittsburgh, PA
9. Worcester, MA
10. Albany, NY



A nivel nacional basado en Yamana y Eltahir, 2013
 Fuente: Daymet, Laboratorio Nacional Oak

CLIMATE CENTRAL

UNITED STATES NEW HOMES IN 2050 COASTAL FLOOD ZONE

TOTAL U.S. VALUE

\$8.34 BILLION

STATES WITH MOST HOMES AT RISK

1. NEW JERSEY
2. NORTH CAROLINA
3. FLORIDA



Homes built 2010-2016; Flood zone = local annual flood heights added to median sea level rise for 2050 (Ropp et al., 2017) under RCP4.5; Growth rate: % growth in new homes in flood zone over % growth outside it. Housing data source: Zillow (home locations and values) and ZTRAX (bulk years)

CLIMATE CENTRAL

Philadelphia FOOTBALL SEASON WARMING



Source: RCC-ACIS.org

CLIMATE CENTRAL

CARBON FARMING Yearly Maximum CO₂ Uptake By Soils



2.7
MILLION
Tonnes

399,000
Homes' electricity

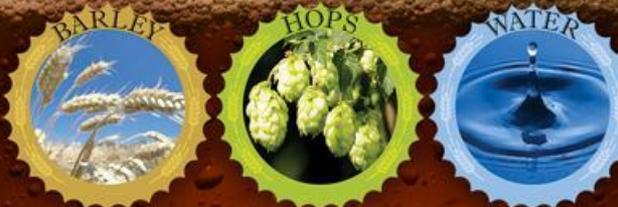
Equal to annual emissions

571,000
Cars driven

Source: Paustian et al. 2017

CLIMATE CENTRAL

TROUBLE BREWING



Climate Change is Impacting the Key Elements in Beer

Source: OREM, Colorado Magazine Online

CLIMATE CENTRAL

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RESOURCES

Use the latest data, analysis and insights to help you understand and share the science of climate change.

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Climate Matters in Action



Marissa Woods shows how the federal grants in the State of California are helping to...

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GLOBAL OCEAN CONVEYER BELT



Global Ocean Conveyor Belt
APR 23, 2018

The global ocean conveyor belt is slowing down, impacting climate...

[WATCH VIDEO](#)
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RAPIDLY INTENSIFYING HURRICANES



Rapidly Intensifying Hurricanes
MAY 21, 2018

Rapidly intensifying hurricanes (RiHs) are becoming more common...

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DROUGHT & DELUGE IN 2016



Drought & Deluge In 2016
MAY 21, 2018

Drought and deluge are both expected to be more common...

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Extreme Weather Toolkits

Use the weather warning your local area is connected to...

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Upcoming Events

NOAA: May Global Temperature Release
MAY 15, 2018

Spanish Language Webinar: Climate Change Impacts and How We Know It's Us

Extreme Weather Toolkits

Extreme weather coming your way? Here's its connection to climate change.



Coastal Flooding



Drought



Extreme Heat



Heavy Rain & Flooding



Severe Weather



Snow & Ice



Tropical Weather



Wildfires

Partnerships Journalism

PBSO
NEWS
HOUR
WEEKEND

Menu



*Demand for Danny Lippi's mangrove trimming service is growing as climate change pushes more of the trees north.
Credit: James Gilbert/Climate Central*

Demand for Lippi's mangrove trimming service has been growing as the trees have been accumulating northward.

Climate change push Florida's mangroves north

Mar 31, 2019 5:15 PM EDT

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UTAH TODAY

Report shows wildfires and heat stoking Salt Lake City's ozone problem

By Amy-Jill O'Donnoghue | amyjo@utah.com | Aug 7, 2018, 7:00pm MDT

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Young Athletes Are In Greater Danger As Kansas City Sees More Hot Summer Days

By EMA ZEFF • AUG 21, 2019

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Sports Sac State has chance to stun baseball world at NCAA regional

Entertainment Musical lineup for Farm-to-Fork Festival

THE SACRAMENTO BEE

THE UC Davis Cal Aggie Marching Band has been suspended from performing at the Sacramento State Farm-to-Fork Festival. The band's suspension comes after a student-led protest against the band's participation in the festival. The band's suspension comes after a student-led protest against the band's participation in the festival.

UC Davis suspends band for investigation of misconduct

The UC Davis Cal Aggie Marching Band has been suspended from performing at the Sacramento State Farm-to-Fork Festival. The band's suspension comes after a student-led protest against the band's participation in the festival.

Sacramento bar cancels shows after LGBTQ protests

The Sacramento bar has canceled its shows after LGBTQ protests. The bar's decision comes after a student-led protest against the bar's participation in the festival.

News | Local | Environment

Multnomah County Trees Are Doing Much More Than We Think

by Monica Samayoa [Follow](#) and Priyanka Runwal, Climate Central OPB Nov 1, 2019 6 a.m. | Updated: Nov 4, 2019 7:17 a.m. | Portland, Ore.

SEE CONTROVERSY, 2A

The local Coos Wino has taken a lot of attention in our region since 2016.

THE SACRAMENTO BEE

Executive director of ForestWatch United for Science, Ethics & Ecology in Eugene, Oregon, says the study shows that conditions are all somewhat favorable in the county, even ahead — given climate change — of the state's goal of being an "unburnable" situation.

The State Fire this month, an unprepared for that ignited soon after a second, was "along with" the study's findings, which show that conditions are all somewhat favorable in the county, even ahead — given climate change — of the state's goal of being an "unburnable" situation.

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Capitol & California

DEADLY FORCE BILL PASSES 66-0

Procedural by bipartisan support, legislation to update the legal standard for police use through the Assembly, May 15.

NATION'S WORLD

MUELLER WON'T CLEAR TRUMP

A news conference on his last day as special counsel ended with a scathing call for impeachment from Democrats. 7A

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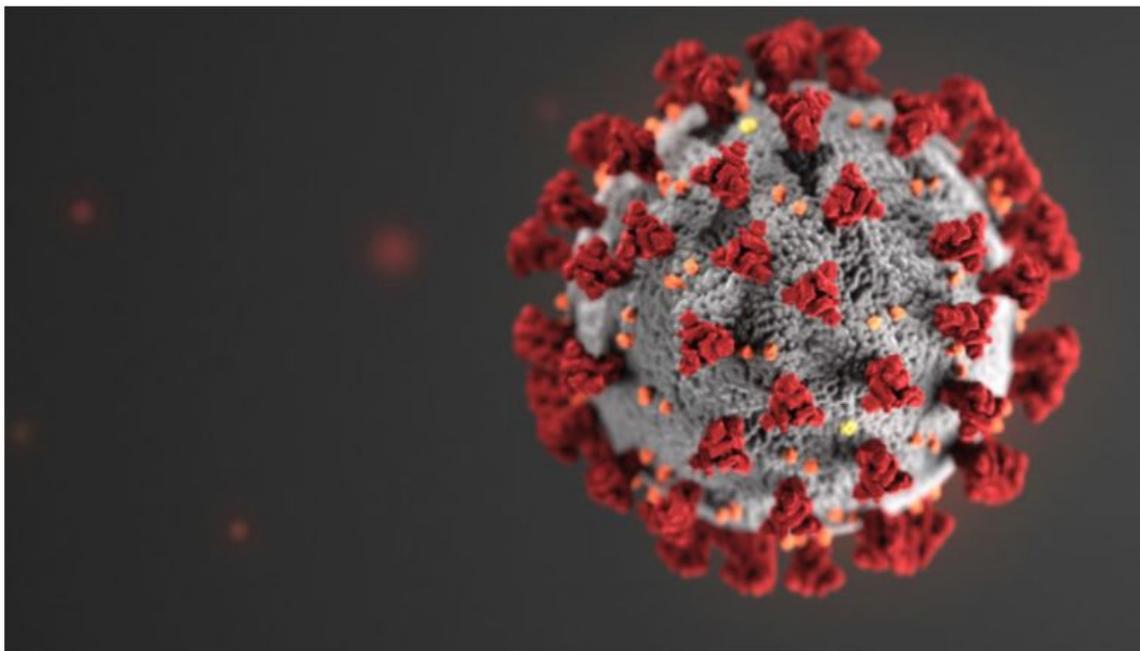
Classified Comics	78	Letters	100	Obituaries	10
Horoscopes	10	Lottery	10	Politics	10
		News	10	Signage	10

SEE FREE 6A

Reporting on Disasters during COVID-19

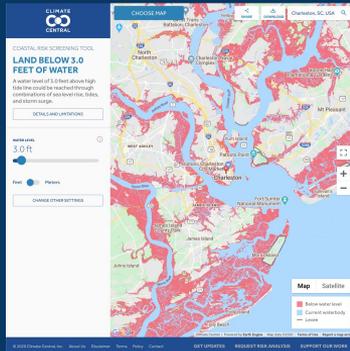
APR 16, 2020

Social distancing, shelter-in-place orders, and travel restrictions are complicating preparations for and responses to extreme weather and disasters, including a powerful, damaging storm system that recently swept across the country.



Social distancing, shelter-in-place orders, and travel restrictions are complicating preparations for and responses to extreme weather and disasters. The [American Meteorological Society \(AMS\)](#), the scientific organization representing about 12,000 meteorologists, [issued a statement](#) that people should use public tornado shelters if they're the best refuge available, despite coronavirus fears. And the [American Red Cross](#) is [creating new protocols for evacuation shelters](#), including when possible, to use hotels or other alternatives like dorms to shelter people.

Climate Central Maps & Tools



Coastal Risk Screening Tool

Explore coastal flood and sea level rise risk by year or water level. This global interactive map shows areas vulnerable to permanent submergence from sea level rise, or to flooding from combinations of sea level rise, storm surge, tides, and tsunamis.



Risk Finder

Surging Seas Risk Finder is designed to provide citizens, communities and policy makers in the U.S. with the tailored local information they need to understand and respond to the risks of sea level rise and coastal flooding in their own neighborhoods.



Risk Zone Map

This global interactive map - searchable by city or postal code - shows areas vulnerable to permanent submergence from sea level rise, or to flooding from sea level rise, storm surge, tides, and tsunamis, in different combinations.



Portfolio Analysis Tool (PAT)

PAT can calculate the expected future flood risk events for any location near the coast, using localized sea level rise projections, local flood history, and cutting edge elevation data.



COASTAL RISK SCREENING TOOL

LAND PROJECTED TO BE BELOW ANNUAL FLOOD LEVEL IN 2030

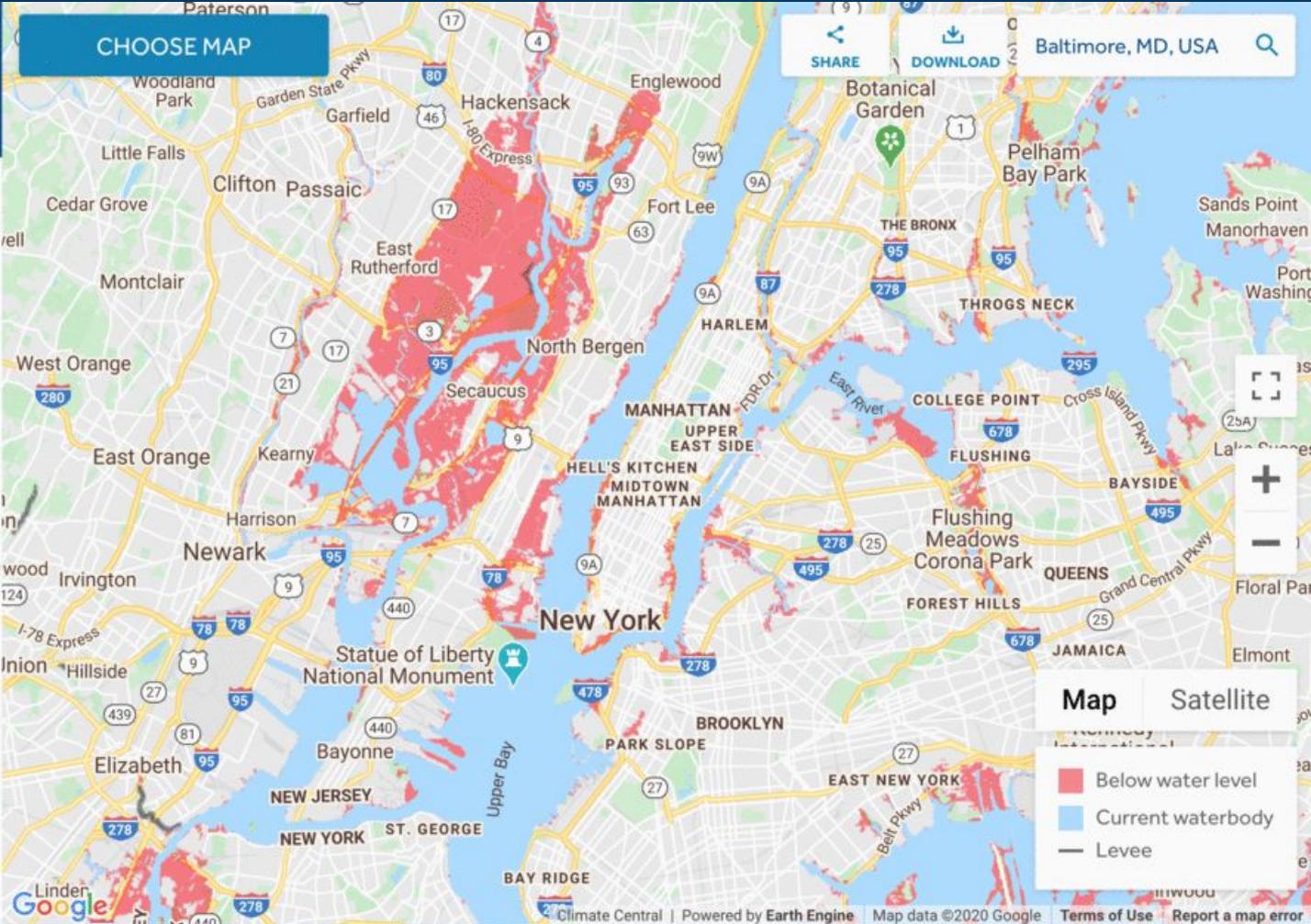
Explore sea level rise and coastal flood threats by adjusting the controls below.

DETAILS AND LIMITATIONS

YEAR

2030

CHANGE OTHER SETTINGS



October 2019

Future Flood Risk: John F. Kennedy Space Center & Cape Canaveral Air Force Station



Could Kennedy Space Center launch sites be threatened by climate changes? Experts say

Rachael Joy, FLORIDA TODAY and Ayurella Horn-Muller, Climate Central | Published



Climate Study: Rising Flood Risk May Soon Threaten Florida Launch Sites

BY JOHN HANDIBOE, MAUREEN MCCANN AND EUGENE BUENAVENTURA | BREVARD COUNTY
PUBLISHED 6:00 PM ET OCT. 30, 2019



BREVARD COUNTY, Fla. — A new climate change study focused on Florida's east coast is revealing rising risks in Brevard County.

- Study: By 2100, rising water expected to impact rocket launch sites
- NASA has started construction on 3-mile-long dune to protect sites
- Dixie Crossroads owner also concerned about drop in business
- Learn more about [the Climate Central study](#)

Researchers with the nonprofit [Climate Central](#) found that floodwaters could start creeping in at

We want to hear from you.

akopicki@climatecentral.org
@AllisonKopicki

jupton@climatecentral.org