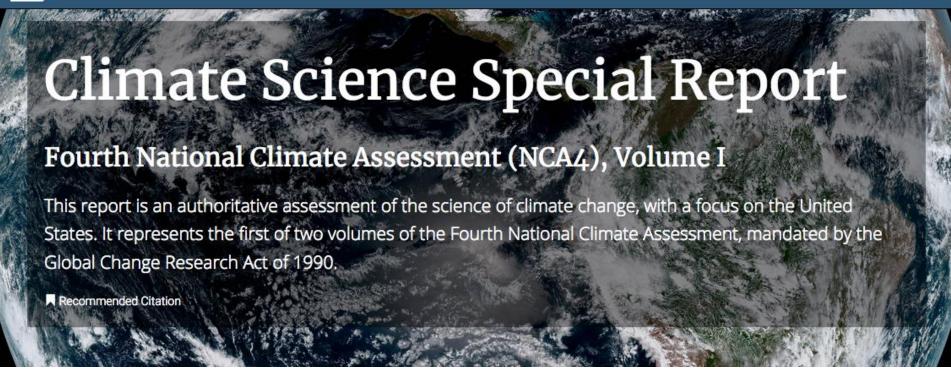
CSSR





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Volume I is the most comprehensive and

up-to-date assessment of the state of

climate science today.

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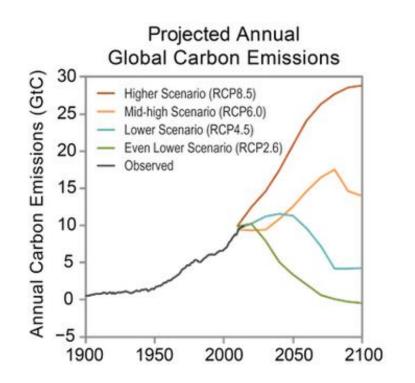
12 federal agencies, 50 authors, almost 500 pages

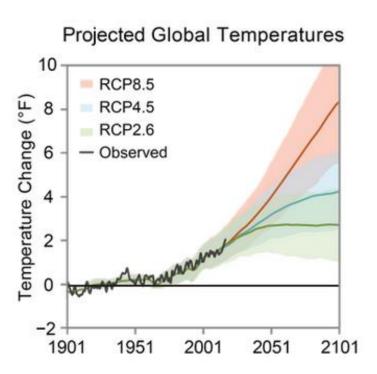
* It was subject to public review, two agency reviews, and a National Academy review

VOLUME I TELLS US THAT

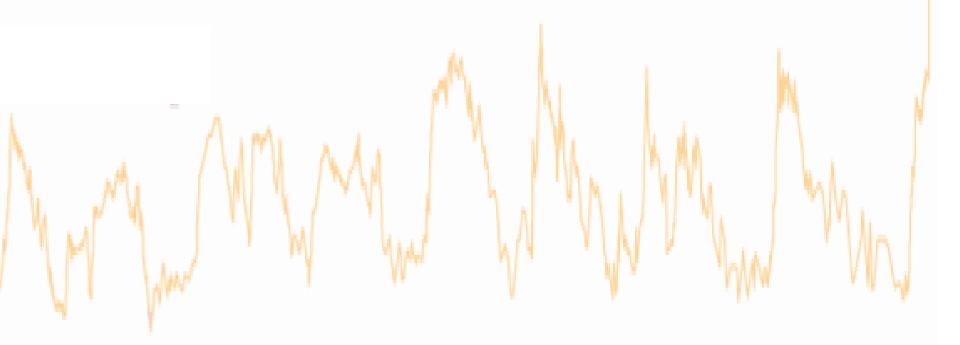
It's real
It's us
It's serious
.. and the window of time to prevent widespread
dangerous impacts is closing fast.

Climate change beyond the next few decades depends primarily on the **heat-trapping gases emitted** and the remaining uncertainty in the **sensitivity of Earth's climate** to those emissions.





 CO_2 concentration has now passed 400 ppm, a level that last occurred about **3 million years ago**, when global average temperature and sea level were significantly higher than today.



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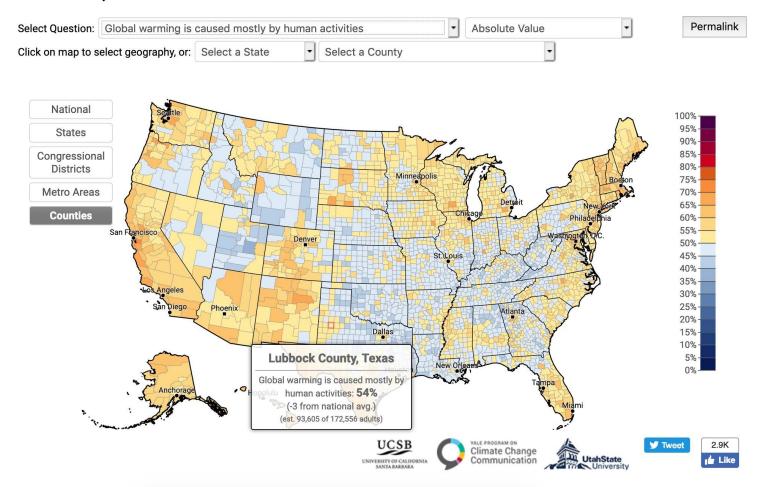
Continued growth in CO_2 emissions over this century and beyond would lead to an atmospheric concentration not experienced in tens of millions of years.

The present-day emissions rate of nearly 10 GtC per year suggests that there is no climate analog for this century any time in at least the last 50 million years. (update: now 100 million years)

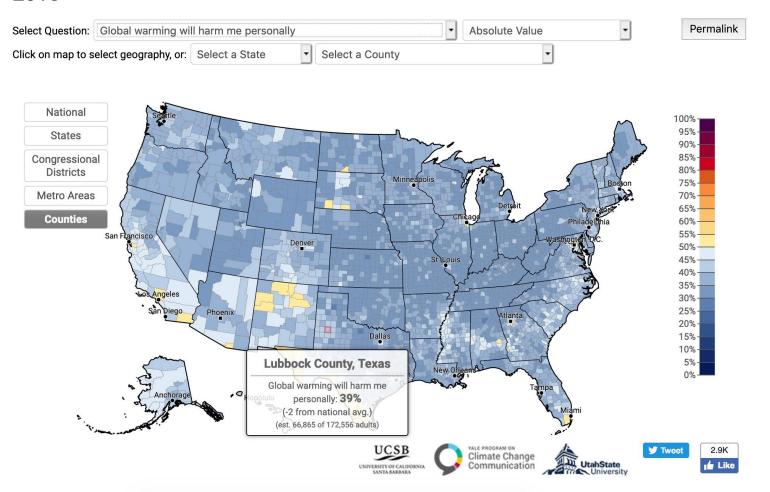
MOST PEOPLE DON'T REALLY HAVE A PROBLEM WITH...

THE SCIENCE THAT EXPLAINS WHY CLIMATE IS CHANGING.

Estimated % of adults who think global warming is mostly caused by human activities, 2018



Estimated % of adults who think global warming will harm them personally, 2018

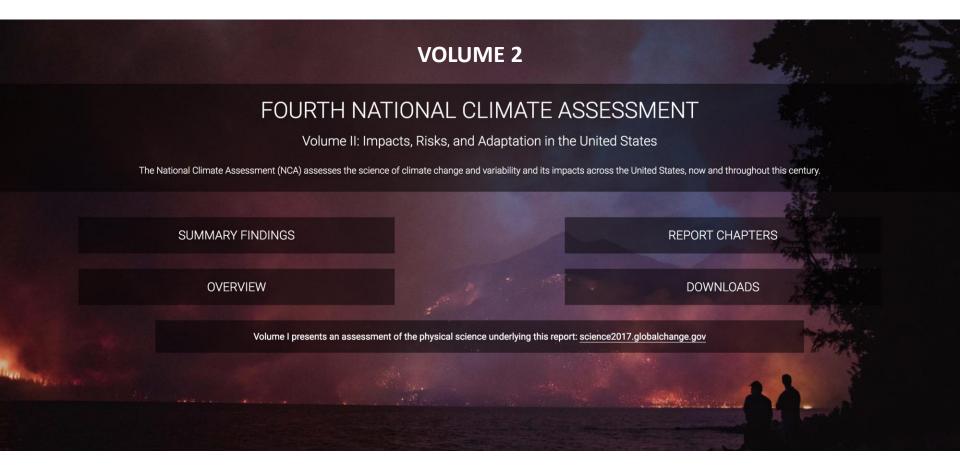






THE MOST DANGEROUS MYTH WE'VE BOUGHT INTO IS ...

CLIMATE CHANGE IS A DISTANT ISSUE, ONLY AFFECTING FUTURE GENERATIONS + PLACES THAT ARE FAR AWAY.



nca2018.globalchange.gov

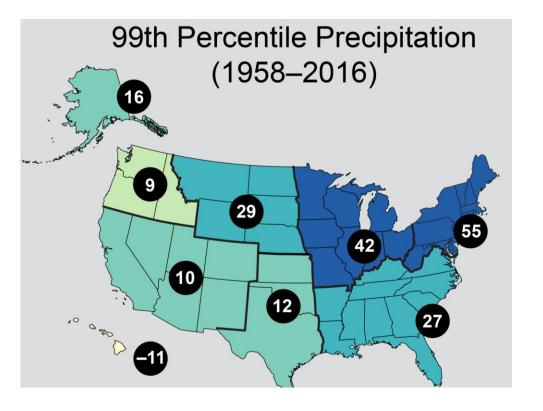
Volume II is the most comprehensive and up-to-date assessment of how climate change is affecting the U.S. and how we are responding.

12 federal agencies, 350 authors, over 1600 pages

VOLUME I I TELLS US THAT

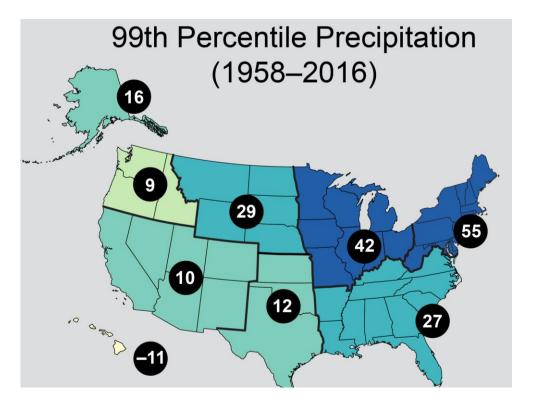
Climate change isn't a distant issue any more. It's affecting every single one of us, in every part of the U.S., across almost every sector.

And the more climate changes, the more serious and even dangerous the impacts will be come.



The frequency + intensity of

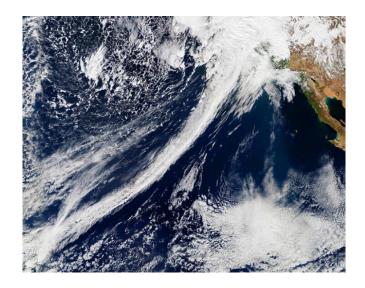
- Extreme high temperature events are virtually certain to increase
- Extreme precipitation events are very likely to continue to increase



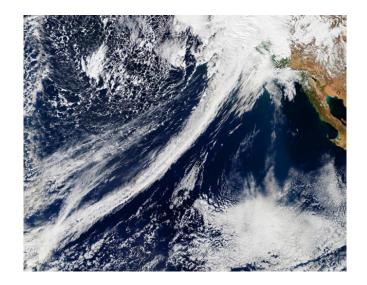
The frequency + intensity of

- Extreme high temperature events are virtually certain to increase
- Extreme precipitation events are very likely to continue to increase

Climate models tend to underestimate the observed trends, especially for the increase in extreme precipitation events



The frequency and severity of land-falling "atmospheric rivers" on the U.S. West Coast will increase.



The frequency and severity of land-falling "atmospheric rivers" on the U.S. West Coast will increase.

Hurricanes aren't more frequent: but they are stronger, bigger, slower, and their rainfall is much more intense than it used to be.



On the Atlantic Coast ...

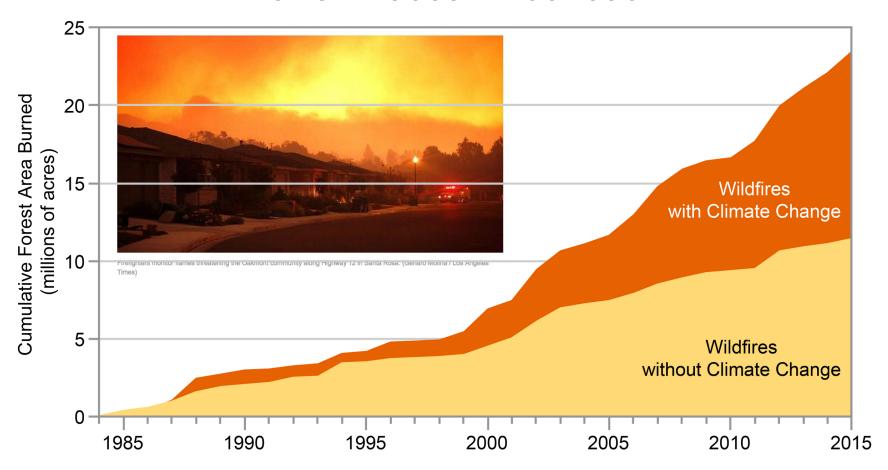


Louisiana Climate Refugees

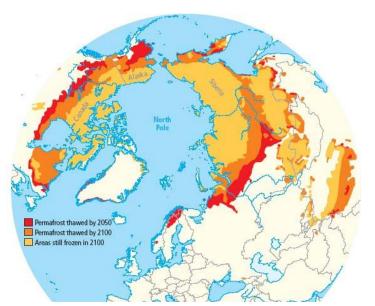




In the western states ...



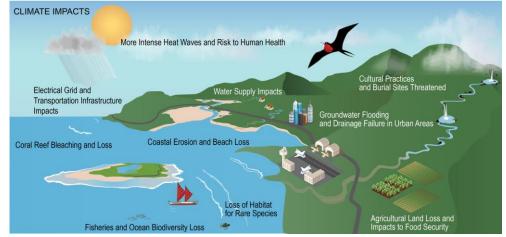
Up in Alaska ...





On the islands

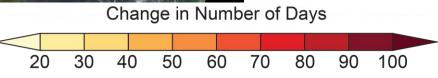




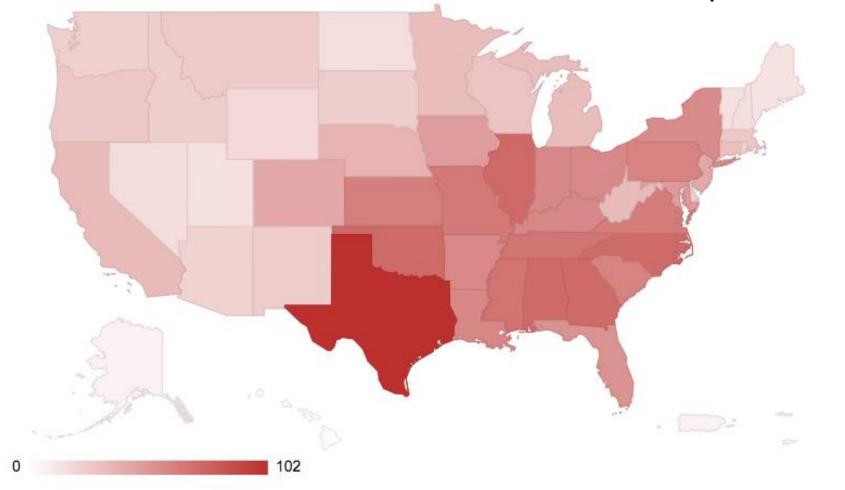


Even down in Texas





NOAA billion-dollar weather and climate events (1980-2018)





We care about a changing climate because it exacerbates the risks we already face today.



www.katharinehayhoe.com