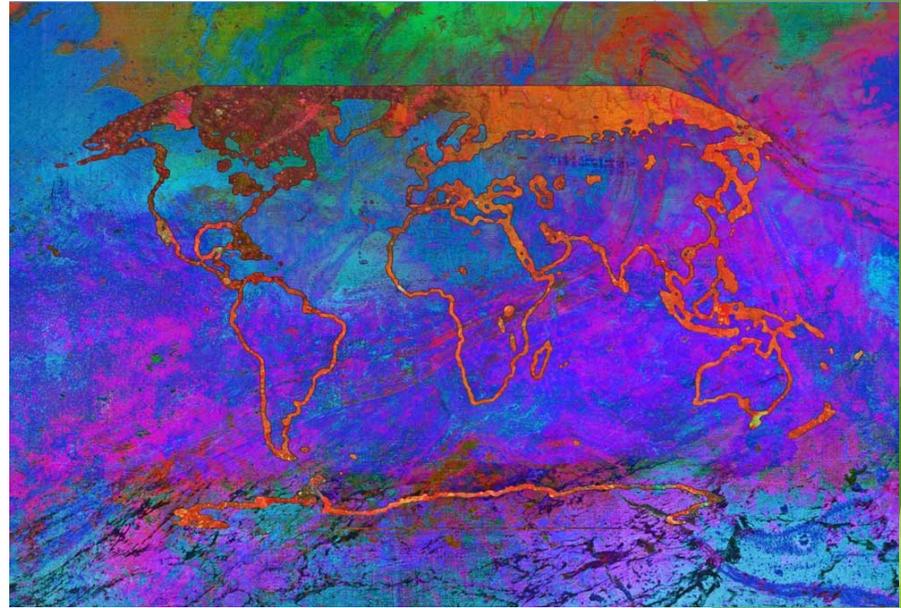


The Latest IPCC Report

These slides are
available as a PDF
at tucsonccl.com



Front cover art from the 2021 IPCC Report

Background

- ▶ Eight years since the last major report from the Intergovernmental Panel on Climate Change (IPCC)
- ▶ IPCC is a UN organization that coordinate but does not write the reports
 - ▶ Authored by scientists from around the world who volunteer their time reviewing scientific literature and drawing conclusions
 - ▶ In this report, over 14,000 studies and data sources were included
- ▶ Each major report is split into three working parts
 - ▶ Part I. The physical science of the climate system
 - ▶ Part II. Impacts of climate change on humans and other species,
 - ▶ Part III. Methods for mitigating climate change
- ▶ This report was Part I (science). Parts .II and III will come later

Top Level Conclusions

- ▶ Warming since late 1800s has been around 1.1°C and humans are responsible for almost all of it.
- ▶ Extreme weather is on the rise and will get worse
 - ▶ Atmospheric CO₂ concentrations higher than at any time in at least 2 million years
 - ▶ Global surface temperature has increased faster since 1970 than in any similar period over at least the last 2,000 years.
- ▶ It is possible to limit warming to 1.5° or 2° C, given the will to act. It is also possible to hit 4° or 5° C of warming by 2100, with blatant disregard for action.

News You Can Use

- ▶ “Human-induced climate change is already affecting many weather and climate extremes in every region across the globe”
- ▶ “evidence for ... changes in extremes such as heatwaves, heavy precipitation, droughts, and tropical cyclones, and ... *their attribution to human influence*, has strengthened ...”
- ▶ Total warming by 2100 ranges from about 1.4°C in a lowest emissions scenario to about 4.4°C in the highest emissions scenario
- ▶ Sea level rise: by the end of century, between 0.4 m (1.4 feet) in a lowest emissions scenario to about 1.4 m (4.7 feet) in the highest emissions scenario.
 - ▶ A lower-probability worst-case scenario of closer to 2 m (6.5 ft) could occur *if ice-sheet instability concerns pan out*

A National Campaign for the House

- ▶ We have a national campaign *right now* to get CF&D in a bill in the House.
- ▶ Our Senate campaign yielded over 50,000 contacts from over 20,000 individuals. That is a HUGE success.
 - ▶ Want proof? Hear it from Senator Sheldon Whitehouse:
<https://twitter.com/citizensclimate/status/1420123711269740550>
- ▶ The ask? *Urge them to include carbon pricing in the reconciliation package when it arrives in the House.*
- ▶ After tonight, make a phone call too and use the same script. Calls have a lot of impact.
- ▶ Perhaps most importantly, ask friends, spouses and coworkers to write and/or call
 - ▶ Have them use cclusa.org/house-call to make it easy and trackable

Suggested Letter

This August, the IPCC released its most recent report which confirms and reinforces the dire consequences that Arizona, the US, and the world will face if climate change is allowed to continue unchecked.

The most significant cause of climate change is the release of greenhouse gases into our atmosphere from the burning of fossil fuels. We need a national policy that will begin a quick and orderly transition away from them.

Scientists, economists, and businesses agree that a price on carbon is the most straightforward, fair, and effective policy to quickly achieve a rapid reduction in greenhouse gas emissions with minimal disruption to our economy.

I'm writing to urge you to support and advocate for a carbon price in the reconciliation package when it arrives in the House.



References

Copy of these slides at landing page at tucsonccl.com

- ▶ IPCC Reports can be downloaded here
(we recommend the Summary for Policymakers)
 - ▶ <https://www.ipcc.ch/report/ar6/wg1/#SPM>