

ScienceBrief

keep up with science

Overview
April 2021

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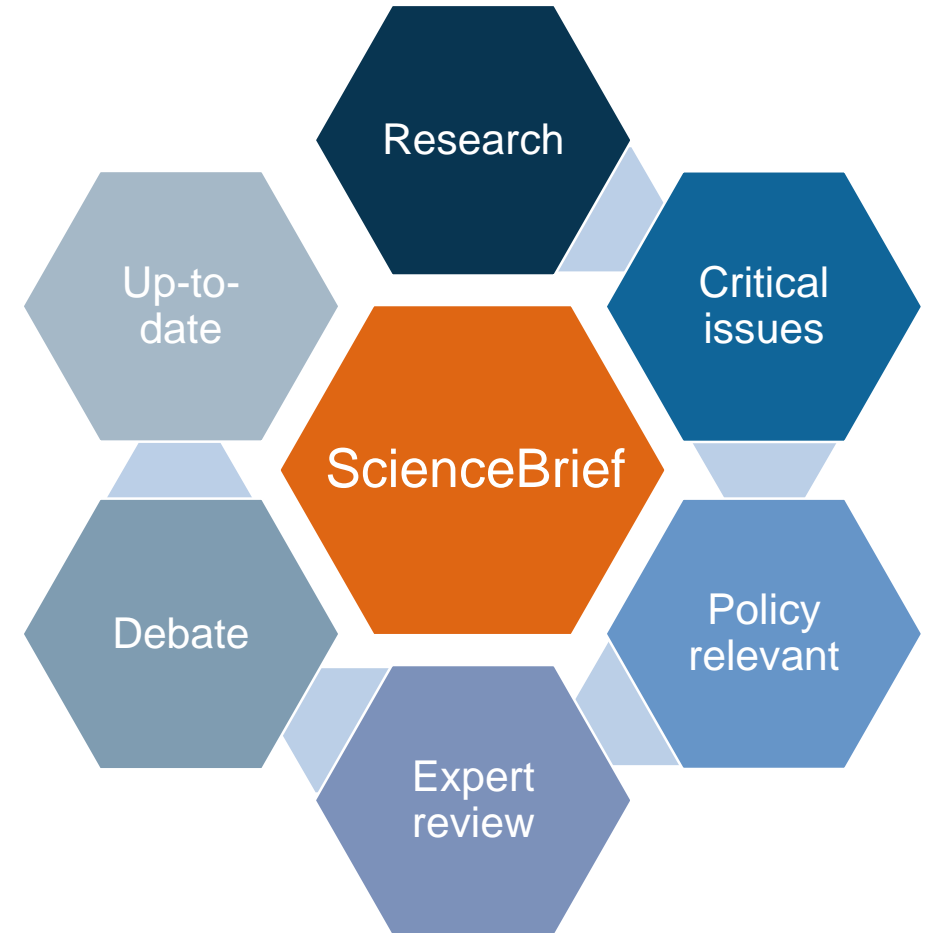
What is ScienceBrief?

ScienceBrief is a web platform to help make sense of science and keep up with peer-reviewed publications.

ScienceBrief provides timely answers to questions arising on the state of science.

What can it do for me?

ScienceBrief enables greater sharing of research insights to a broad audience.



ScienceBrief topics

Currently five topics, comprising Briefs on emerging and fundamental issues.

Briefs are set by an international advisory board of senior scientists.

Scientists upload new papers with their interpretation explaining how that research evolves the science.

The screenshot displays four topic cards on the ScienceBrief website, organized into two sections: 'Key Topics on the Carbon Cycle' and 'Critical Issues in Climate Change Science'.

Key Topics on the Carbon Cycle (OPEN TOPIC)

- Card 1:** "Climate change will weaken carbon sinks and further amplify climate change." Category: Future Projection. Statistics: 84 papers, 74 comments, 6 authors. Consensus: Broad Consensus.
- Card 2:** "The atmospheric concentration of CO2 varied by around 100 parts per million (ppm) during glacial cycles in response to multiple natural processes." Category: Paleo Reconstructions. Statistics: 21 papers, 20 comments, 6 authors. Consensus: More Evidence Required.

Critical Issues in Climate Change Science (OPEN TOPIC)

- Card 3:** "Climate change increases the risk of wildfires." Category: Climate Change Impacts. Statistics: 119 papers, 111 comments, 5 authors. Consensus: Clear Consensus.
- Card 4:** "Climate change increases the severity of tropical cyclones and their destructive power." Category: Climate change impacts. Statistics: 93 papers, 91 comments, 1 author. Consensus: Moderate Consensus.

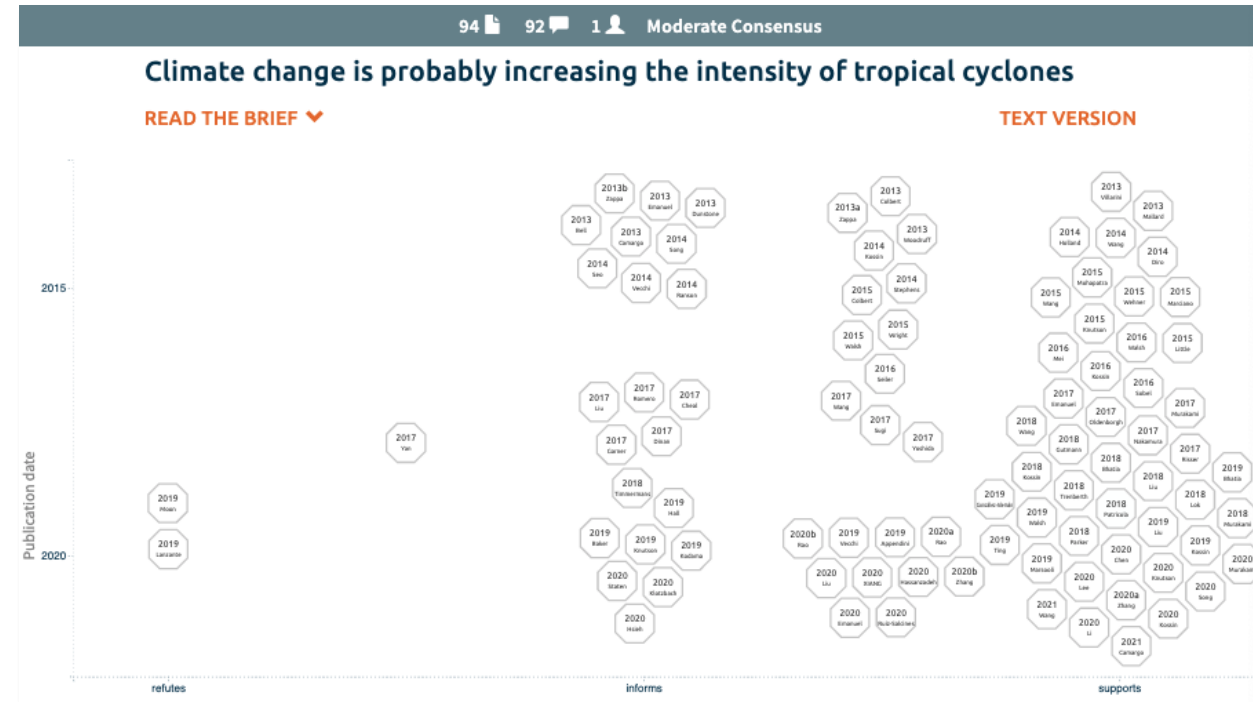
Each card also features a small 'Emerging topic' tag and navigation arrows.

Exploring evidence

The ScienceBrief Explorer quickly shows the consensus and controversies on emerging topics.

Visualise evidence over time and search by keywords (#hashtags) and locations (#geotags).

Pan, zoom, hover or select to explore the detail from each paper.



Keep up with science

At a time when society needs to tackle critical issues like climate change and biodiversity loss, sound and accessible scientific evidence is vital.

ScienceBrief signposts and appraises highest quality, peer reviewed research.

[ScienceBrief Reviews](#) synthesise latest understanding of emerging climatic events, including wildfires, cyclones and independent advisory bodies.

ScienceBrief
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Climate Change Increases the Risk of Wildfires

ScienceBrief Review

January 2020

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This ScienceBrief Review is part of a collection on [Critical Issues in Climate Change Science](#), relevant to inform the COP26 climate conference to be held in Glasgow (2021).

Time stamp: Published 14 January 2020. The evidence reviewed was published between 16 March 2013 to 12 January 2020. Search keywords used for the ScienceBrief Review: "Climate Change" AND "Fire" (also "Fire Weather" OR "Fire Danger")

Approach. We undertook a ScienceBrief Review on the link between climate change and wildfire risk. 57 scientific articles were gathered and evaluated using ScienceBrief. This document synthesises the key points that emerged from the findings. Our review focuses on papers published since the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC), with its cut-off date of March 2013. The papers can be viewed on sciencebrief.org/topics/climate-change-science/wildfires. All papers show linkages between climate change and increased frequency or severity of fire weather, though some note anomalies in isolated regions. None of the papers support a widespread decrease in fire risk.



Highlights

Published ScienceBrief Reviews:

- [Wildfires](#) (x2)
- Tropical Cyclones
- Independent expert advisory bodies

Pending ScienceBrief Reviews:

- Extreme rainfall & floods
- Arctic amplification & weather extremes
- [Carbon–climate feedbacks](#)
- Heatwaves & extreme temperatures

Potential future ideas

Fire CO₂ emissions
Remaining carbon budget
Abrupt climate change
Amazon die-back
Biomass for bioenergy
Agriculture & land-use
Energy transition & net zero
Climate change and health
Vector-borne disease risk

