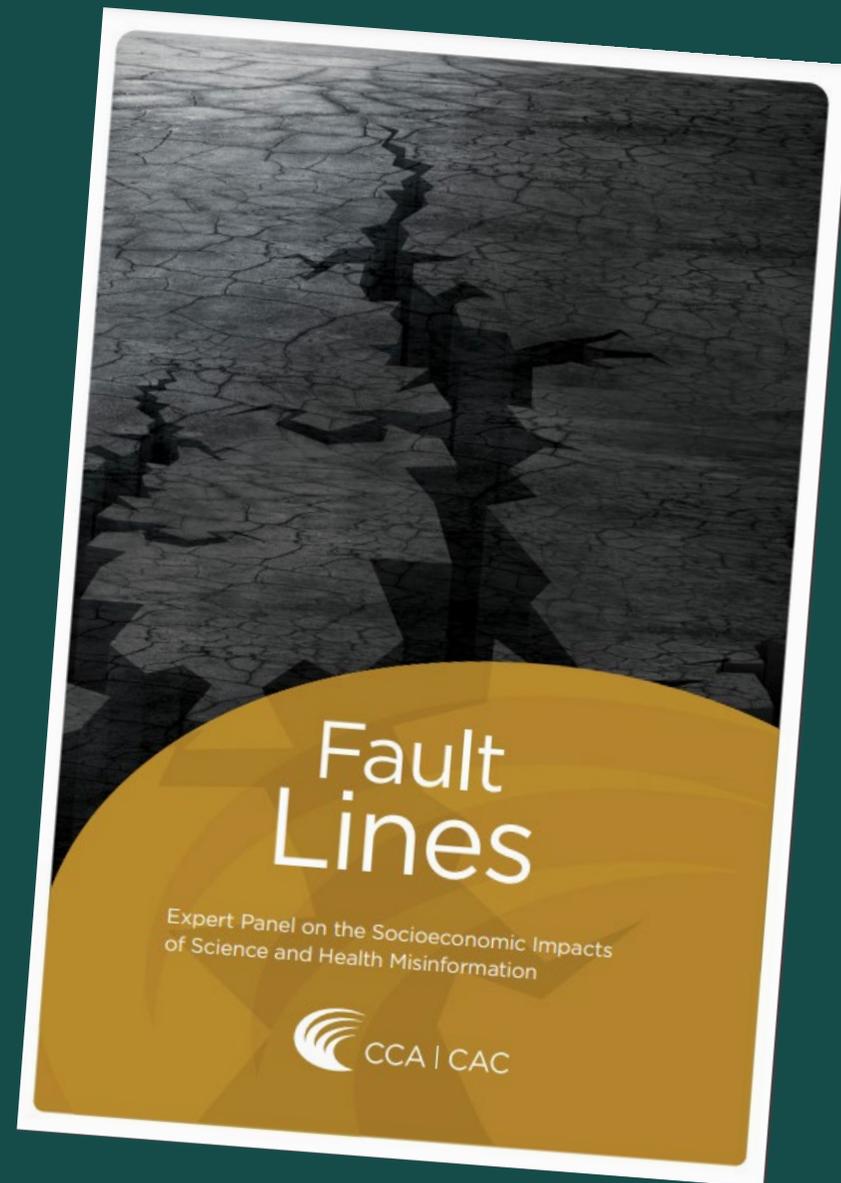
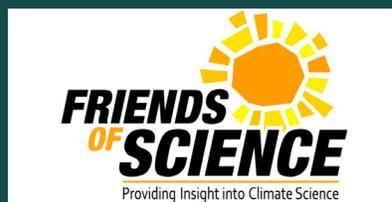


FAULT LINES AT THE CBC

Presented by Michelle Stirling

Communications Manager

Friends of Science Society © 2023

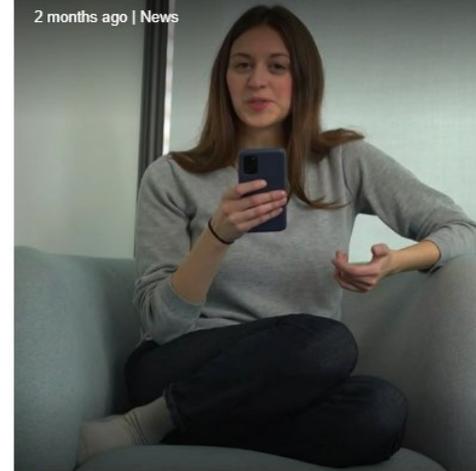


Climate Misinformation: are you immune?



Climate Misinformation: are you immune?

2 months ago | News



The negative impact of climate misinformation
0:00 / 7:08

Climate Misinformation: are you immune?

2 months ago | News | 7:08

Despite the growing number of extreme weather events-- Climate change denial is still very much out there-- particularly on social media While a lot of people may ignore it, that doesn't mean it doesn't make a lasting impact. Jaela Bernstien looks into the issue.

News > TV Shows > The National

Think you're immune to bogus climate claims? Think again
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ADVERTISMENT

CANADA'S LARGEST BEVERAGE CONTAINER RECYCLING SYSTEM IS IN ALBERTA

Think you're immune to bogus climate claims? Think again

2 months ago | News | 8:04

Even if you scroll past the videos and social posts making false claims about climate change, you're not immune. A growing body of evidence shows that misinformation is having an impact, even if you never fall down the rabbit hole.



Learn more

<https://www.cbc.ca/player/play/2181875267691>

CBC's Journalistic Standards

- **Our Mission and Principles**
- **Our Mission**
- We are Canada's national public news and information service. We are rooted in every region of the country and report on Canada and the world to provide a Canadian perspective on international news and current affairs. We provide Canadians with information when and how they want it, through an evolving range of media.
- **To serve the public interest**
- Our mission is to inform, to reveal, to contribute to the understanding of issues of public interest and to encourage citizens to participate in our free and democratic society.
- **To reflect diversity**
- We are committed to reflecting accurately the range of experiences and points of view of all citizens. All Canadians, of whatever origins, perspectives and beliefs, should feel that our news and current affairs coverage is relevant to them and lives up to our principles. We have a special responsibility to reflect regional and cultural diversity, as well as fostering respect and understanding across regions.
- **To protect our independence**
- We are independent of all lobbies and of all political and economic influence. We uphold freedom of expression and freedom of the press, the touchstones of a free and democratic society. **Public interest guides all our decisions.**
- **To act responsibly and to be accountable**
- We are aware of the impact of our work and are honest with our audiences. We do not hesitate to correct any mistake when necessary nor to follow up a story when a situation changes significantly. We do not plagiarize.

Asking Journalistic Questions

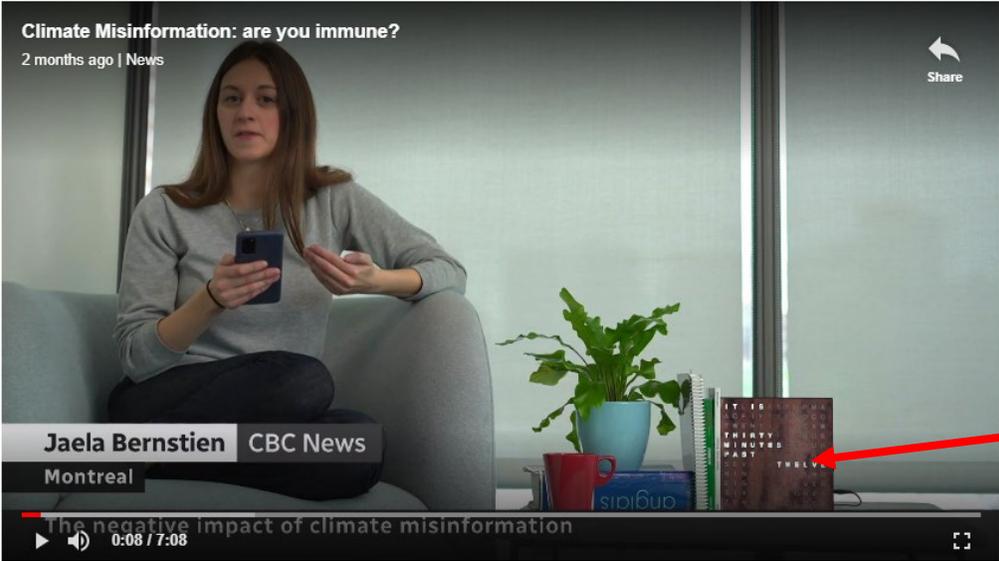
All journalists set out to find answers to the same essential questions: *Who* is involved? *What* is happening? *Where* is it happening? *When* is it happening? *Why* is it happening? *How* is it happening? These journalistic questions are also known as the 5 W's and H. Indeed, asking journalistic questions can help you assess most situations, whether you are planning a project, researching a topic, or evaluating finished work. The following chart shows the questions you could ask in each situation.

5 W's and H Chart

Journalistic Questions	Observing an Event or Situation	Researching a Topic	Planning a Project	Evaluating a Project
<i>Who?</i>	Who is involved?	Who caused this? Who is most affected by it?	Who is involved with this project? Who will benefit in the end?	Who created each part? Who provided the most help to others?
<i>What?</i>	What is happening?	What is the nature of this? What is the extent?	What goal do we have? What tasks should we complete?	What feature is strongest? What feature is weakest?
<i>Where?</i>	Where is it happening?	Where is this? Where else might it be?	Where will we work? Where will we present?	Where should we present this project?
<i>When?</i>	When is it happening?	When did this first appear? When will it cease?	When is it the project due? When is each task due?	When was it due? When did we complete work?
<i>Why?</i>	Why is it happening?	Why is this important? Why does it impact our lives?	Why are we doing this project? Why will our project stand out?	Why did we choose this project? Why did it turn out as it did?
<i>How?</i>	How is it happening?	How is this useful now? How could it be used in the future?	How will we complete the work? How will others judge what we did?	How did our plan work? How did the team work together?

Unusual news reporting format: "I've been doing a lot of scrolling... false claims, cherry picking..." on climate change

Climate Misinformation: are you immune?
2 months ago | News



Jaela Bernstien CBC News
Montreal

The negative impact of climate misinformation
0:08 / 7:08

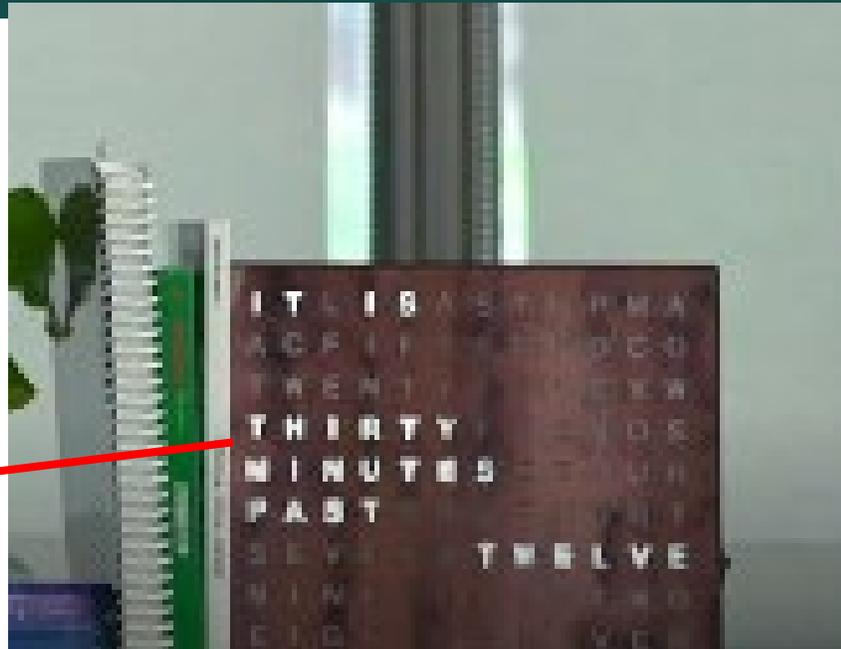
Climate Misinformation: are you immune?
2 months ago | News | 7:08

Despite the growing number of extreme weather events-- Climate change denial is still very much out there-- particularly on social media While a lot of people may ignore it, that doesn't mean it doesn't make a lasting impact. Jaela Bernstien looks into the issue.

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"These posts are getting thousands of views"
Joanne Nova: "...everything you know about climate change is the opposite"



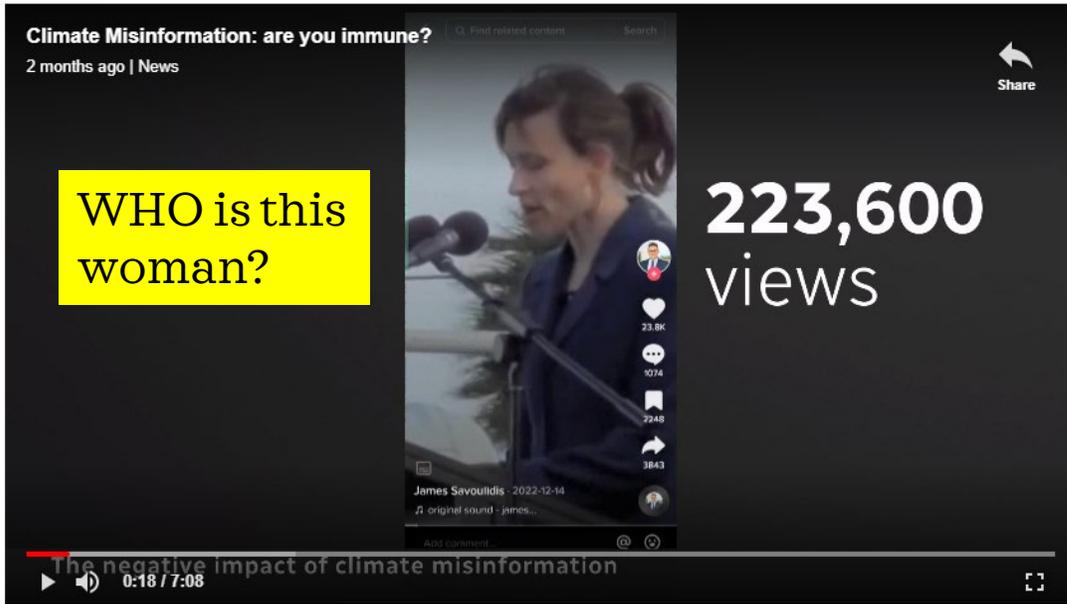
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0:16 / 7:08

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WHO is this woman?

223,600 views

0:18 / 7:08

Climate Misinformation: are you immune?
2 months ago | News | 7:08

Despite the growing number of extreme weather events-- Climate change denial is still very much out there-- particularly on social media While a lot of people may ignore it, that doesn't mean it doesn't make a lasting impact. Jaela Bernstien looks into the issue.

[Learn more](#)

Jaela: "I report on climate change, so I know these claims are false."
Then a cutaway of her boots walking through the frame.



Climate Misinformation: are you immune?
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The negative impact of climate misinformation
0:34 / 7:08

Climate Misinformation: are you immune?

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Why the boots?

The negative impact of climate misinformation
0:35 / 7:08

Climate Misinformation: are you immune?

2 months ago | News | 7:08

Despite the growing number of extreme weather events-- Climate change denial is still very much out there-- particularly on social media While a lot of people may ignore it, that doesn't mean it doesn't make a lasting impact. Jaela Bernstien looks into the issue.

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Jaela's 61% public opinion 'social proof' is Misleading + Irrelevant.

'Climate change' has been happening for 4.5 billion years.
The issue is *to what extent do human industrial emissions drive climate change.*

Is carbon dioxide the driver or not?

Who cares what Canadians are 'extremely sure' about?

What does the data and EVIDENCE tell us?



News > TV Shows > The National

Think you're immune to bogus climate claims? Think again
12 days ago | News



61%
of Canadians are very or extremely sure climate change is happening.

Media Ecosystem Observatory:
Mis- and Disinformation during
the 2021 Canadian Federal Election

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Think you're immune to bogus climate claims? Think again

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Even if you scroll past the videos and social posts making false claims

Explain the story with facts, not passing social proofs.

Who is this person? Clarify What this report is about.

Why is it relevant or important to this conversation?

Climate Misinformation: are you immune?
2 months ago | News

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Mathieu Lavigne Misinformation researcher at McGill University
Montreal

The negative impact of climate misinformation
0:51 / 7:08

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61%
of Canadians are very or extremely sure climate change is happening.

Media Ecosystem Observatory: Mis- and Disinformation during the 2021 Canadian Federal Election

Think you're immune to bogus climate claims? Think again
12 days ago | News | 8:04

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Who is this man?

Why is his contribution to this story relevant?



Climate Misinformation: are you immune?
2 months ago | News

1:07 / 7:08

Climate Misinformation: are you immune?
2 months ago | News | 7:08

Despite the growing number of extreme weather events-- Climate change denial is still very much out there-- particularly on social media. While a lot of people may ignore it, that doesn't mean it doesn't make a lasting impact. Jaela Bernstien looks into the issue.

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“It is very easy by misleading rhetoric to induce doubt about those facts in the public because you know the public doesn't have enough time to sort of sift through all the information that's out there. Misinformation can have a very strong impact on people's attitudes.”

Now we're in a café with Jaela.

Why?

“Misinformation is all about planting little seeds of doubt.

It might not be enough to make you think that climate change itself is not real, but it might make you question whether cutting emissions is worth all the effort.”



Climate Misinformation: are you immune?
2 months ago | News

Eco-Zombies
'Scientists'
'Experts' don't control me
'So-called' climate crisis
Warmist propaganda

The negative impact of climate misinformation
1:31 / 7:08

Climate Misinformation: are you immune?
2 months ago | News | 7:08

Despite the growing number of extreme weather events-- Climate change denial is still very much out there-- particularly on social media While a lot of people may ignore it, that doesn't mean it doesn't make a lasting impact. Jaela Bernstien looks into the issue.

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Gas	World Warming	Canadian Contribution	Alberta Contribution
	C/Century	C/Century	C/Century
CO ₂	0.85	0.016	0.0052
CH ₄	0.085	0.0016	0.00052
N ₂ O	0.064	0.0012	0.0037
Total	1.0	0.019	0.006

six thousandths

If we look at the EVIDENCE it is clear that for Canada, cutting emissions is NOT worth the effort.

—The world warming column is from: C. de Lange, J. Ferguson, W. Happer & W. A. van Wijngaarden, 2022, “Nitrous Oxide & Climate”, *Atmos. & Oceanic Phys.* arXiv: 2211.15780.

-Canada produced 1.9% of CO₂ according to <https://www.worldometers.info/co2-emissions/>

-According to Environment and Natural Resources Dept. of Government of Canada in 2019 Alberta generated about 37% of Canada's carbon dioxide equivalent output.

-For simplicity, we assume same emission fraction for CH₄ and N₂O as for CO₂

Climate Change Studies

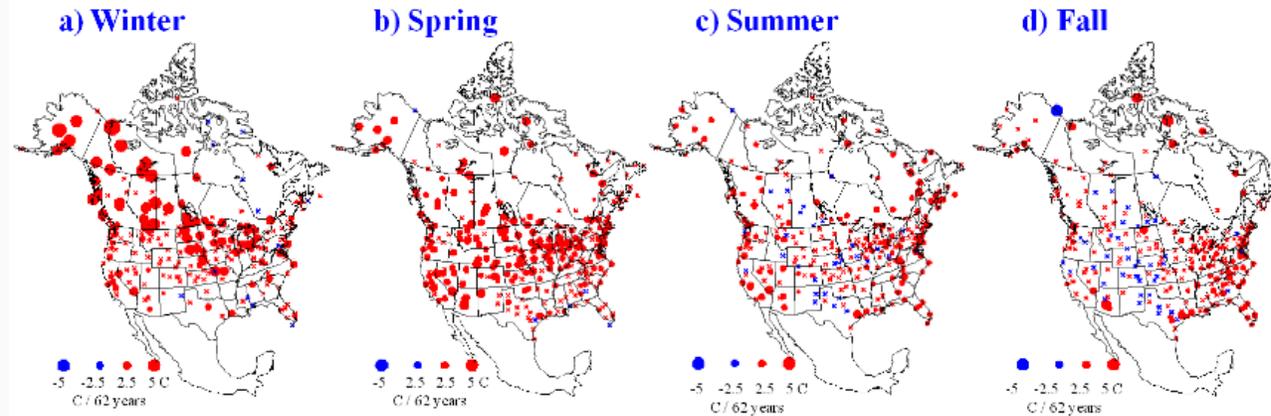
<https://wvanwijngaarden.info.yorku.ca/publications/>



Is Global Warming Hot Air?



W. A. van Wijngaarden



Temperature change in North America during 1948-2010. The largest warming is evident in the Western Arctic and Canadian prairies in winter and spring.

[\(Click here for Talk.\)](#) We have examined archival records of temperature, relative humidity, precipitation, pressure, wind etc. These measurements were made on an hourly or daily basis at over 75 airports located throughout Canada during the last 55

Here's how CBC described Prof. William van Wijngaarden

MENU

Top Stories Local COVID-19 Climate World Canada Politics

Oral-B Round Cleans Better

Science

7 young people sued Ontario over its climate policy. This week, they made their case

f t g e in

Lawsuit seeks to force Ford government to adopt more ambitious plan

Inayat Singh, Alice Hopton · CBC News · Posted: Sep 16, 2022 8:10 PM ET | Last Updated: September 17



A group of young Ontarians, supported by the law charity Ecojustice, is suing Ontario over its climate policy. Their case was heard in Toronto this week, a historic first in Canada. (Evan Mitsui/CBC)

Seven young people who brought a landmark lawsuit against the Ontario government, alleging its climate plan fails to protect them and future generations, were heard in

Ontario brings in climate change denier

One of the experts put up by the government, William van Wijngaarden, is a physics professor at York University and a climate change denier. In his submission for the case, he stated that global climate models have consistently overestimated global warming. He also cast doubt that greenhouse gas emissions are linked to climate disasters like floods, tornadoes and forest fires, which goes against the consensus in climate science and reports from the Canadian government and the Intergovernmental Panel on Climate Change.



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<https://blog.friendsofscience.org/2022/10/02/debunking-the-ecojustice-genclimateaction-case-and-reviewing-cbc-derogatory-coverage-of-an-esteemed-canadian-scientist/>

Debunking the Ecojustice #GENClimateAction Case and Reviewing CBC's Derogatory Coverage of an Esteemed Canadian Scientist

OCTOBER 2, 2022 / / 0 COMMENTS

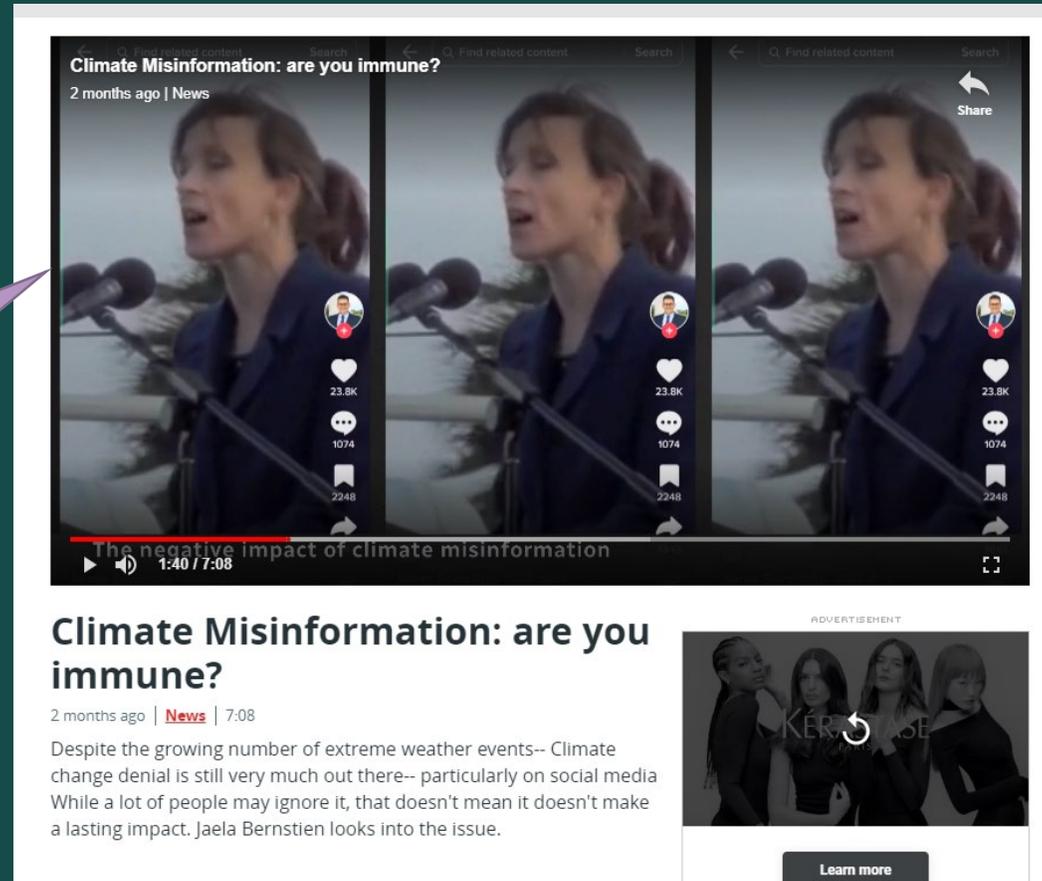
But CBC does not look at the evidence.
They are too busy smearing qualified people who
are bringing you the evidence that the claim of a
climate emergency is overwrought..and built on a
contrived 'consensus'.



I personally know this woman.
Joanne Nova.
I also know this research well.

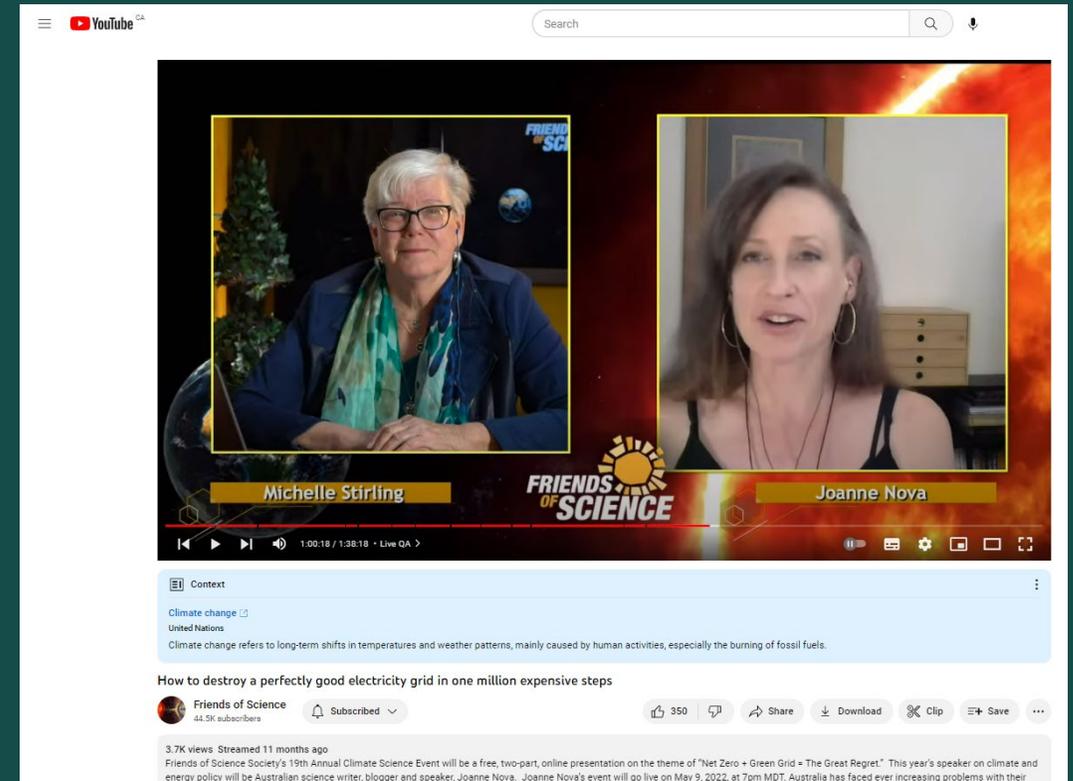
Joanne Nova: “They tell us 97% of climate scientists agree but they don’t tell us that that’s only 75 people.”

Note that CBC does not identify this woman or the study she refers to. They do not argue the evidence, they just allude to it as all ‘misinformation.’ How is that kind of reporting ‘in the public interest?’



The image shows a screenshot of a YouTube video player. The video title is "Climate Misinformation: are you immune?" and it was posted "2 months ago" in the "News" category. The video player shows three frames of a woman, Joanne Nova, speaking at a podium. The video has 23.8K likes, 1074 comments, and 2248 shares. The video is currently at 1:40 of a 7:08 duration. Below the video player, the title "Climate Misinformation: are you immune?" is repeated, along with the same "2 months ago" and "News" information. The description reads: "Despite the growing number of extreme weather events-- Climate change denial is still very much out there-- particularly on social media While a lot of people may ignore it, that doesn't mean it doesn't make a lasting impact. Jaela Bernstien looks into the issue." There is a "Learn more" button below the description. To the right of the description is an advertisement for "KEROLISE" featuring four women.

See? Here we are together for Friends of Science Society's 19th Annual Climate Science Event.



The image shows a YouTube video player interface. At the top, the YouTube logo and a search bar are visible. The video content features two women in a split-screen format. On the left, Michelle Stirling is shown in a studio setting with a Christmas tree and a globe. On the right, Joanne Nova is shown in a home office setting. The video player includes a progress bar at the bottom of the video frame, showing the video is at 1:00:18 / 1:38:18. Below the video, there is a 'Context' section with a link to 'Climate change' and a description: 'Climate change refers to long-term shifts in temperatures and weather patterns, mainly caused by human activities, especially the burning of fossil fuels.' Below this, the video title 'How to destroy a perfectly good electricity grid in one million expensive steps' is displayed, along with the channel name 'Friends of Science' (44.5K subscribers) and engagement metrics: 350 likes, 0 comments, and 0 shares. The video has 3.7K views and was streamed 11 months ago. A description at the bottom states: 'Friends of Science Society's 19th Annual Climate Science Event will be a free, two-part, online presentation on the theme of "Net Zero + Green Grid = The Great Regret." This year's speaker on climate and energy policy will be Australian science writer, blogger and speaker, Joanne Nova. Joanne Nova's event will go live on May 9, 2022, at 7pm MDT. Australia has faced ever increasing problems with their

<https://youtu.be/pBo7KMbfgf6E?list=PLZcRTdbkGEnEtdl-FItyZezV6I0pzAZ>

Joanne Nova was right. 97% of scientists...only 75 people.



97% CONSENSUS? NO! GLOBAL WARMING MATH MYTHS & SOCIAL PROOFS.

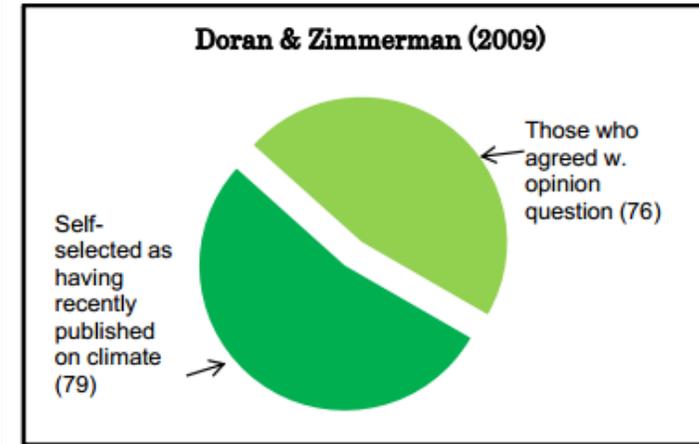
The "Science" of Statisticulation

To gain public acceptance for carbon taxes and renewable energy subsidies, several studies claim a 97% scientific consensus on global warming, implying that the human causes are all about carbon dioxide or greenhouse gases; but a closer look reveals a lot of mathematical manipulation goes into arriving at 97% - a psychological ploy that plays on our primal emotions, 'herd mentality' and fear of being the odd man out. Few people know that the Dutch government has called for the IPCC to be overhauled stating: **"...limiting the scope of the IPCC to human-induced climate change is undesirable, especially because natural climate change is a crucial part of the total understanding of the climate system."** Not only is the 97% claim faulty, the climate predictions of the IPCC exclude an estimated 63% natural factor influence.

Friends of Science Society, Calgary
2/17/2014 REV
© 2014 Friends of Science Society

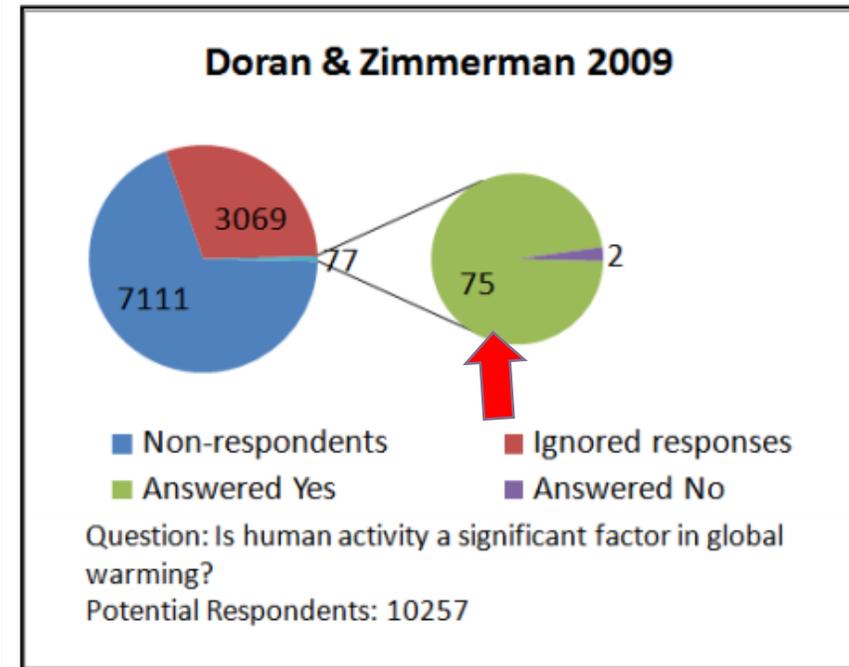
https://friendsofscience.org/assets/documents/97_Consensus_Myth.pdf

Figure 5: Doran & Zimmerman (2009) claim of 97%



Doran & Zimmerman (2009) relied upon 79 self-selected earth scientists (qualifications unstated) who claimed to have published something on climate change recently [Figure 5]. These were drawn from a field of 3,146 respondents, many of whom protested the style of questionnaire on grounds that it is inherently unscientific to ask an opinion question, with no scientific parameters, on an empirical topic. The actual survey numbers are broken down below. [Figure 6]

Figure 6: Doran & Zimmerman (2009) Breakdown of respondents versus self-selected group

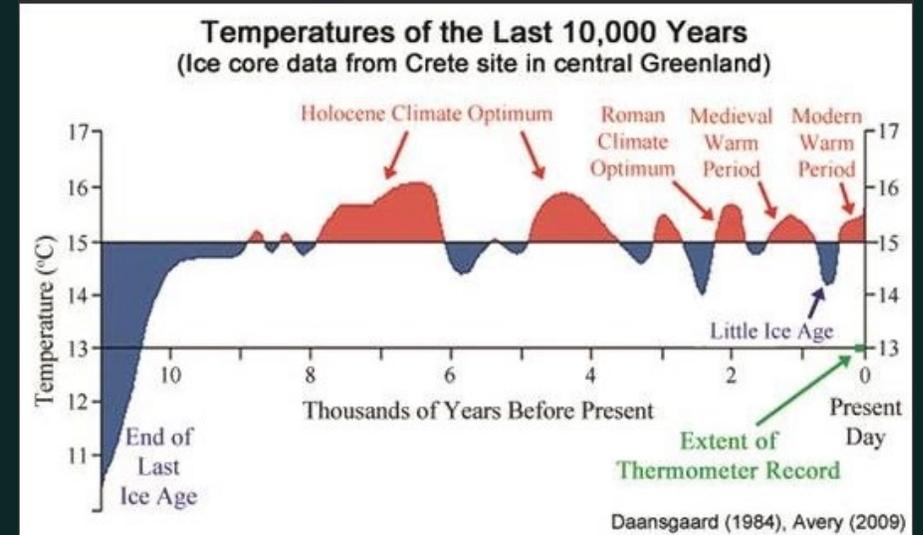


Doran & Zimmerman (2009) survey details

- Upon review it appears that of the 3,146 respondents, only 79 were identified as ‘climate scientists’ (though no definition of ‘climate scientist’ or qualifications were ever provided).
- Of those, some 76 agreed with the opinion (‘risen’) in the first question:
- **Q1: “When compared with pre-1800’s levels, do you think that mean global temperatures have generally risen, fallen, or remained relatively constant?”**

What's wrong with that question?

- The question does not mention any human-caused reason for a rise in temperature, therefore it cannot rightly be said to show any consensus of the IPCC AGW declaration.
- Most geologists would agree temperatures have risen because since 1880 the earth has been warming out of the cold period known as the Little Ice Age.
- **The cause is the subject of debate**, but the warming to 1940 could not have been caused by CO2 emissions because these emissions were too low.

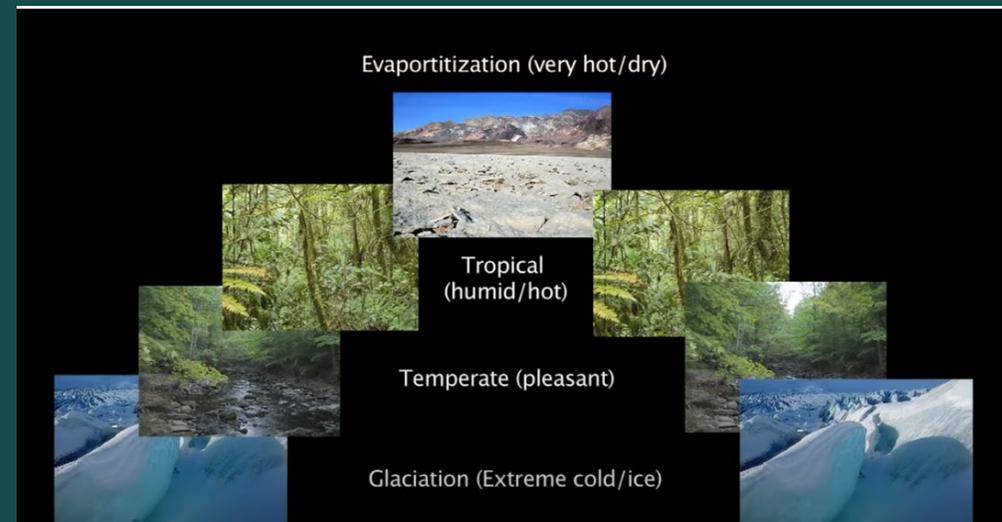
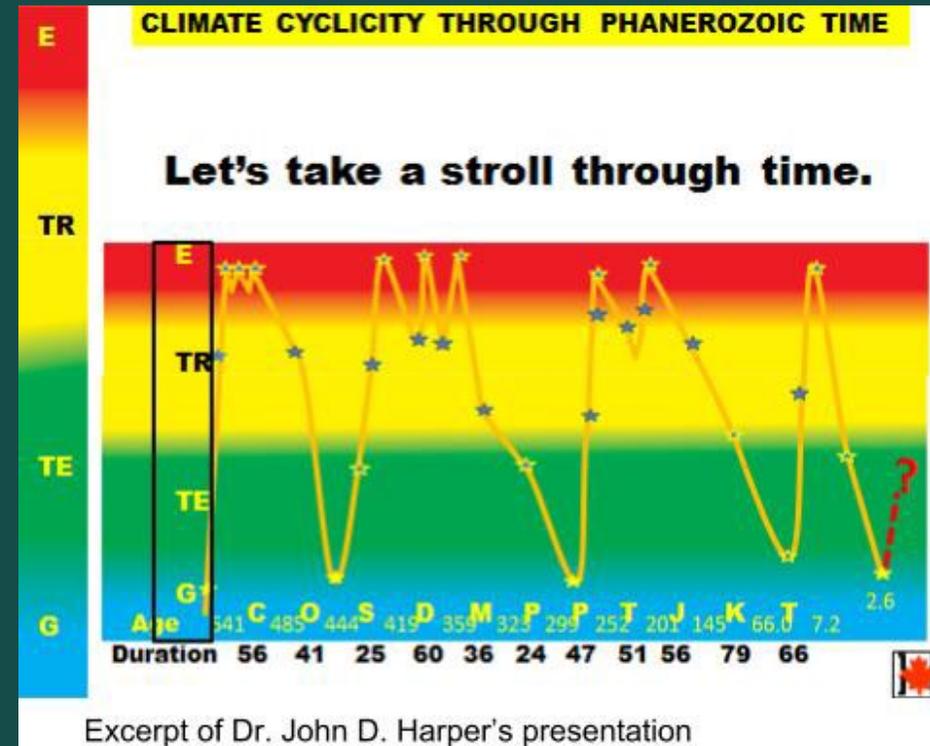


Past Climatic Changes are Cyclical and Very Dramatic - Earth Scientists Study 4.5 billion years of climate change, not just 150 years.

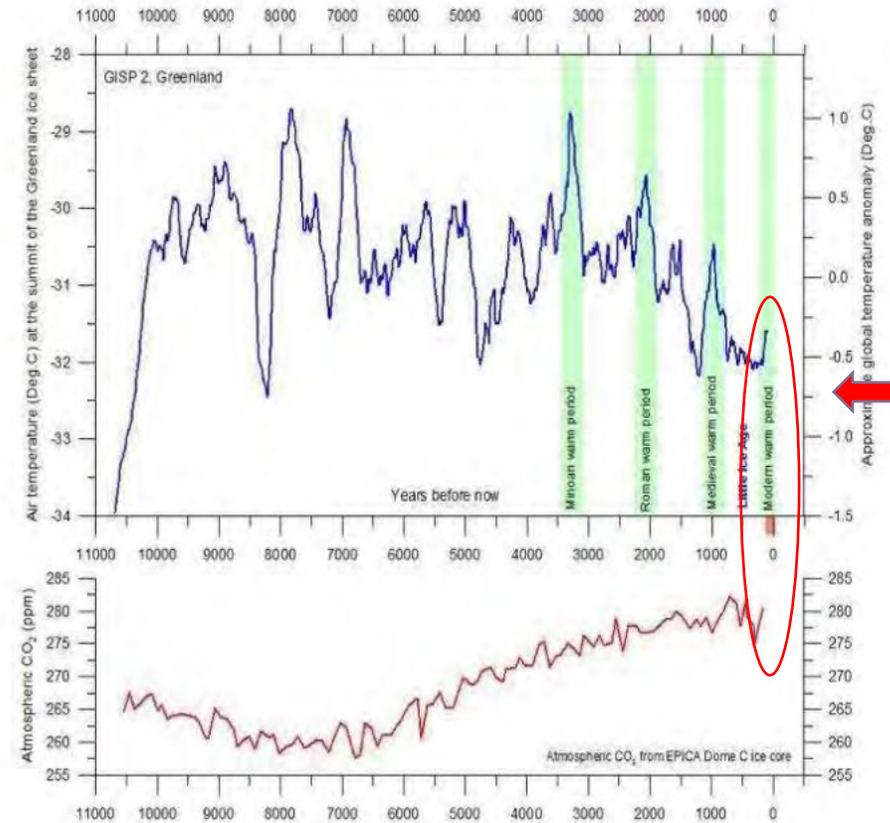
- As noted in emails to Zimmerman from respondents, her question asks for an opinion, not a statement of evidence, and has no parameters of time.
- Doran and Zimmerman were assessing a group of earth scientists (primarily geologists) whose view of time may stretch back eons.
- The main focus of AGW is from 1880 forward; geologists reviewing the Holocene period dating back 11,700 years Before Present would likely see an overall cooling temperature in earth's climate.
- Consequently, **many respondents to the survey declined to participate** because the questionnaire was improperly phrased by not including time parameters, and the survey relied on opinion, not empirical evidence.

Watch Dr. Harper's presentation: "**From Ice Age to Nice Age to Dry Age and Back: 600 million years of Climate Change**"

<https://youtu.be/O-mMpGBxPwI?t=51>



Geological data shows Earth is cooling
and CO2 has no correlation to
temperature



Source: Ole Humlum Climate4You The upper panel²² shows the air temperature at the summit of the Greenland Ice Sheet, reconstructed by Alley (2000) from GISP2 ice core data. The lower panel²³ shows the past atmospheric CO₂ content, as found from the EPICA Dome C Ice Core in the Antarctic (Monnin et al. 2004).

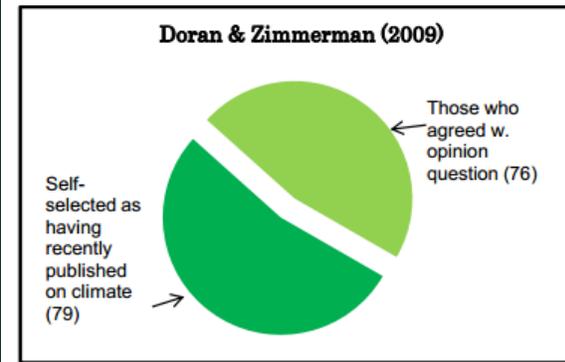
Opinions and Subjective Words are not Empirical Measures. Questions that don't mention human-caused GHGs can't prove AGW.

- Likewise, the second question by Doran and Zimmerman (2009):
- **Q2: "Do you think human activity is a significant contributing factor in changing mean global temperatures?"**
- The word "significant" cannot be quantified. The IPCC AGW statement is that GHGs cause more than 90% of the warming. The IPCC declaration singles out GHGs from human activity, but does not ascribe all human activity (which includes land disturbance, urban warming and black soot on snow, etc). **Neither of the two questions mentions human-caused GHG emissions, so neither can evaluate the agreement with the IPCC AGW statement.**

Math is Hard

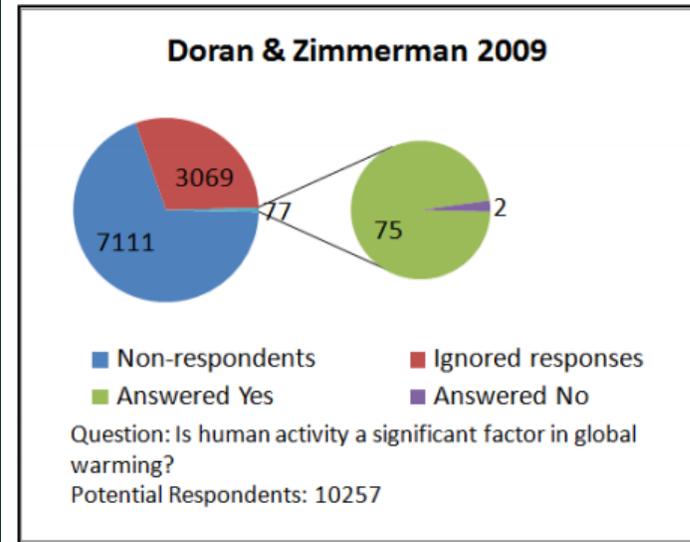
- Nonetheless **Doran and Zimmerman** claimed a **97.4% consensus** to this question – based on a “yes” response by **75 out of 77 self-identified ‘climatologists’** (the credentials of whom were never detailed).
- This would mean **only 2.38% of 3,146** **scientists** agree with an undefined expression of AGW.

Figure 5: Doran & Zimmerman (2009) claim of 97%



Doran & Zimmerman (2009) relied upon 79 self-selected earth scientists (qualifications unstated) who claimed to have published something on climate change recently [Figure 5]. These were drawn from a field of 3,146 respondents, many of whom protested the style of questionnaire on grounds that it is inherently unscientific to ask an opinion question, with no scientific parameters, on an empirical topic. The actual survey numbers are broken down below. [Figure 6]

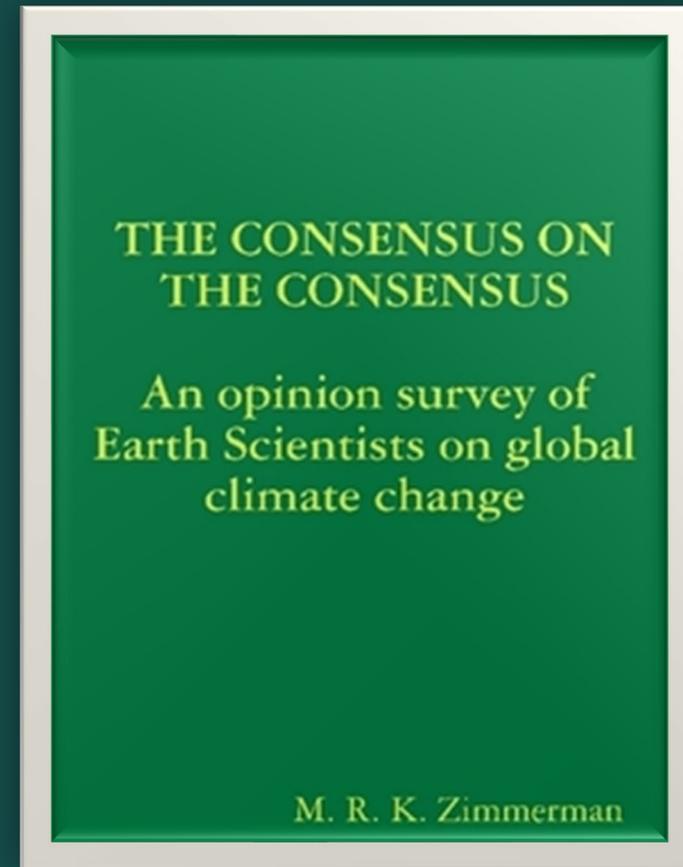
Figure 6: Doran & Zimmerman (2009) Breakdown of respondents versus self-selected group



Here's the 97% - 75 scientists peer-reviewed 'consensus' study.
And here's M.K. Zimmerman's MA Thesis - which has many surprises.



The screenshot shows the top portion of a journal article page. At the top left is the EOS logo with the text 'EOS Transactions American Geophysical Union'. To its right is the AGU logo 'AGU American Geophysical Union'. The article title is 'Examining the Scientific Consensus on Climate Change' by Peter T. Doran and Maggie Kendall Zimmerman. Below the title, it says 'First published: 20 January 2009' with a link for 'Full publication history'. The DOI is '10.1029/2009EO030002' with a link for 'View/save citation'. It is cited by 75 articles, with links for 'Refresh' and 'Citing literature'. An 'Am score' of 145 is shown. On the right side, there is a thumbnail of the journal cover with the text 'Volume 90, Issue 3 20 January 2009 Pages 22-23'. Below the thumbnail is an 'Abstract' section with the following text: 'Fifty-two percent of Americans think most climate scientists agree that the Earth has been warming in recent years, and 47% think climate scientists agree (i.e., that there is a scientific consensus) that human activities are a major cause of that warming, according to recent polling (see <http://www.pollingreport.com/enviro.htm>). However, attempts to quantify the scientific consensus on anthropogenic warming have met with criticism. For instance, Oreskes [2004] reviewed 928 abstracts from peer-reviewed research papers and found that more than 75% either explicitly or implicitly accepted the consensus view that Earth's climate is being affected





Neither CBC nor NASA ever did the #Math on Doran & Zimmerman (2009)

EVIDENCE

How Do We Know Climate Change Is Real?

There is unequivocal evidence that Earth is warming at an unprecedented rate. Human activity is the principal cause.

THE CONSENSUS ON
THE CONSENSUS

An opinion survey of
Earth Scientists on global
climate change

M. R. K. Zimmerman

On the [NASA Climate Change](#) website, Doran and Zimmerman (2009) is presented as a 97% consensus study. A closer look at Zimmerman's original research "The Consensus on the Consensus" reveals that she herself wrote "I can honestly say that I have heard very convincing arguments from all the different sides, and I think I'm actually more neutral on the issue now than I was before I started this project."

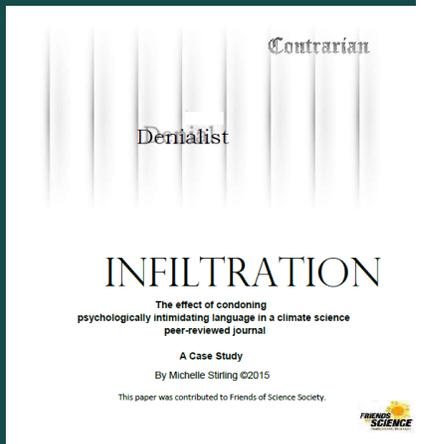


37 scientists wrote emails to M.K. Zimmerman stating that the Sun and Oceans are Main Drivers of Climate Change

- 16 *"We cannot separate out, with adequate precision, the different factors."*
- 17 *"multiple lines of data suggest humans are not the first order drivers of climate"*
- 18 *"There temperature record is not long enough to form any significant hypothesis regarding the cause of the observed temperature increase. What we are probably experiencing is random variability imprinted on long term cycles such as milankovitch, and shorter cycles such as the amount of solar insolation due to sunspot activity and forcing by other similar natural phenomenon. Compared to the natural sources of greenhouse gas input, the amount of greenhouse gas generated by humans is relatively" insignificant.*
- 19 *"Climate has been changing throughout the Holocene for uncertain natural causes. Perhaps it is solar output, but I don't think that has been ascertained with strong evidence. Nonetheless, for whatever reason the climate has constantly been changing and there is no compelling reason to believe that human activity is the current cause given that the current increase began 150 years ago, well before human activity was sufficient to create change."*

36 *"solar ouput [sic] differences observed over the past fifty years and estimates of planetary warming on Mars"*

37 *"I appreciate the limitations of this survey method, but I'm not sure that simplifying complex questions this way is all that helpful in understanding how science is done. Most scientists acknowledge uncertainties in hypotheses so asking black/white questions like this (you either think it is or think is isn't; you're not allowed to think that it may be). For example, I might I guess that 80% of my fellow geoscientists are at least 50% sure that human activity may be at least 50% responsible for global warming."*





Contrarian

Denialist

INFILTRATION

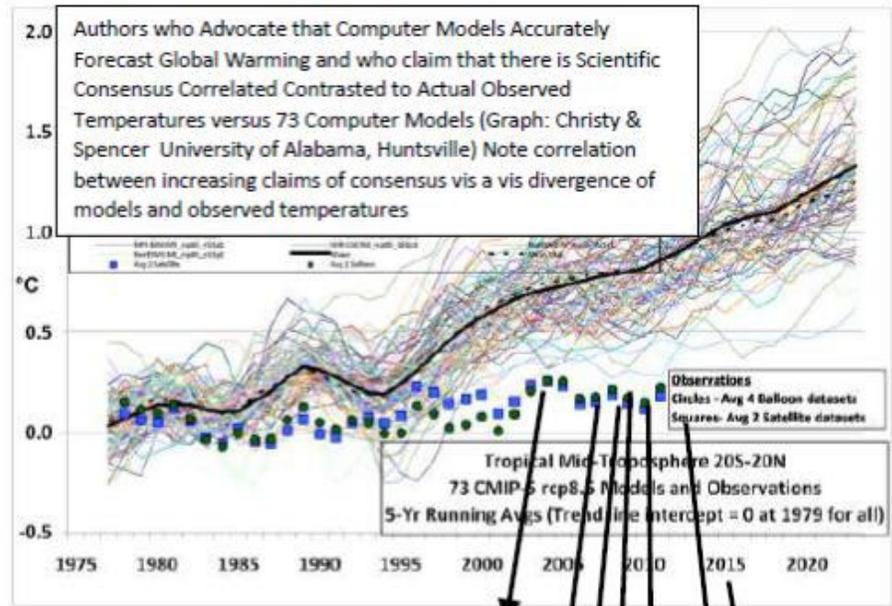
The effect of condoning psychologically intimidating language in a climate science peer-reviewed journal

A Case Study
By Michelle Stirling ©2015

This paper was contributed to Friends of Science Society.



<https://friendsofscience.org/assets/documents/Infiltration2015.pdf>



Oreskes (2004)
"The Scientific Consensus on Climate Change"

Oreskes (2007)
"The scientific consensus on climate change: How do we know we're not wrong?"

Doran & Zimmerman (2009) "Examining the Scientific Consensus on Climate Change"

Anderegg et al (2010)
"Expert Credibility in Climate Change"

Lewandowsky et al (2012/2013)
"NASA faked the moon landing | Therefore (Climate) Science is a Hoax: An Anatomy of the Motivated Rejection of Science"

Lewandowsky, Oreskes et al (2015) "See page..."

Cook et al (2013)
"Quantifying the consensus on anthropogenic global warming in the scientific literature"

1 Million Geoscientists agree we are in the Meghalayan Age. Anthropocene? Not so much.



IUGS - International Union of Geological Sciences

Home What is IUGS? Organization Activities Documents Publications Calendar Contact

WHO WE ARE



The International Union of Geological Sciences (IUGS), founded in 1961, with 121 national members, representing over a million geoscientists, is one of the World's largest scientific organizations. It encourages international co-operation and participation in the Earth sciences in relation to human welfare and is a member of the International Science Council (ISC). Membership is open to countries or defined regions. IUGS believes that it is of mutual benefit to establish close links with other organizations engaged in geoscience activities, and especially those organizations whose work relates to some of the major activities of IUGS.



International Union of Geological Sciences - IUGS

Published by Stan Finney [?] · 2 hrs ·

<https://www.bbc.com/news/science-environment-44868527>

Unfortunately, this BBC article makes three errors. The Meghalayan extends to the present (see chart), not to 1950, showing an misunderstanding of how isotopic ages are expressed. It implies that this division was sprung on the community when the proposal was developed by a diverse international working group of Holocene specialists and fully scrutinized by the Quaternary Subcommittee, the Commission on Stratigraphy, and IUGS. And it fails to mention that proponents of the Anthropocene have never submitted a formal proposal to the Commission on Stratigraphy for evaluation. Why?

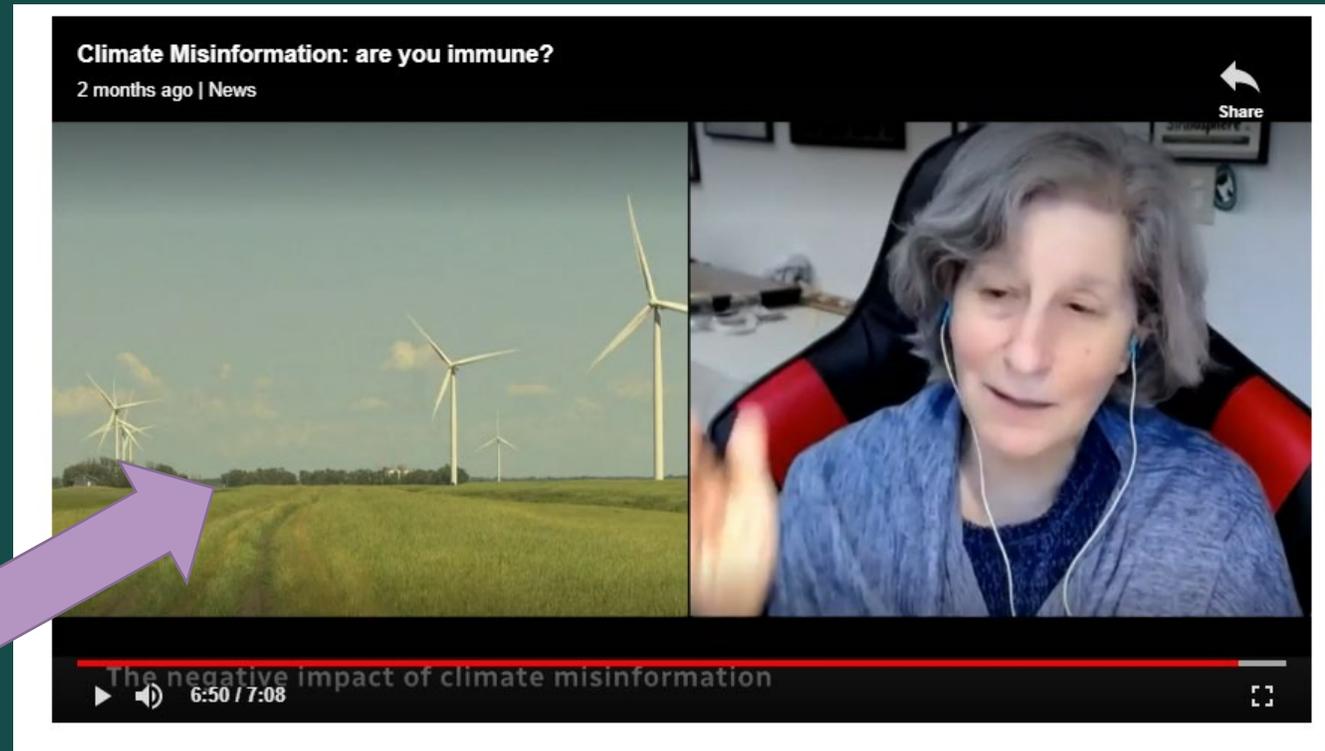
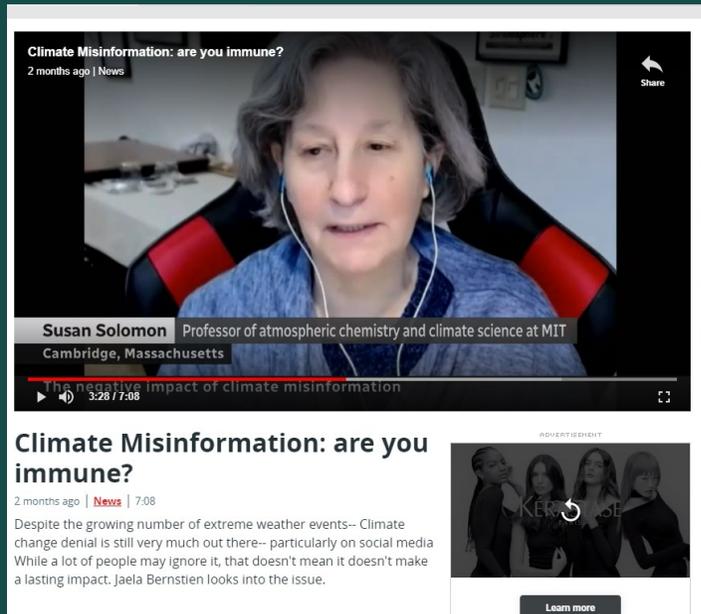
Eonothem / Eon	Erathem / Era	System / Perio	Series / Epoch	Stage / Age	GSST	numerical age (Ma)
			Holocene	Meghalayan	✓	present
				Northgrippian	✓	0.0042
				Greenlandian	✓	0.0082
				Upper	✓	0.0117
				Middle	✓	0.126
			Pleistocene	Calabrian	✓	0.781
				Gelasian	✓	1.80
				Piacenzian	✓	2.58
				Zanclean	✓	3.60
					✓	5.33
					✓	7.2

Welcome to the Meghalayan Age

Geologists classify the last 4,200 years as being a distinct age in the story of our planet.

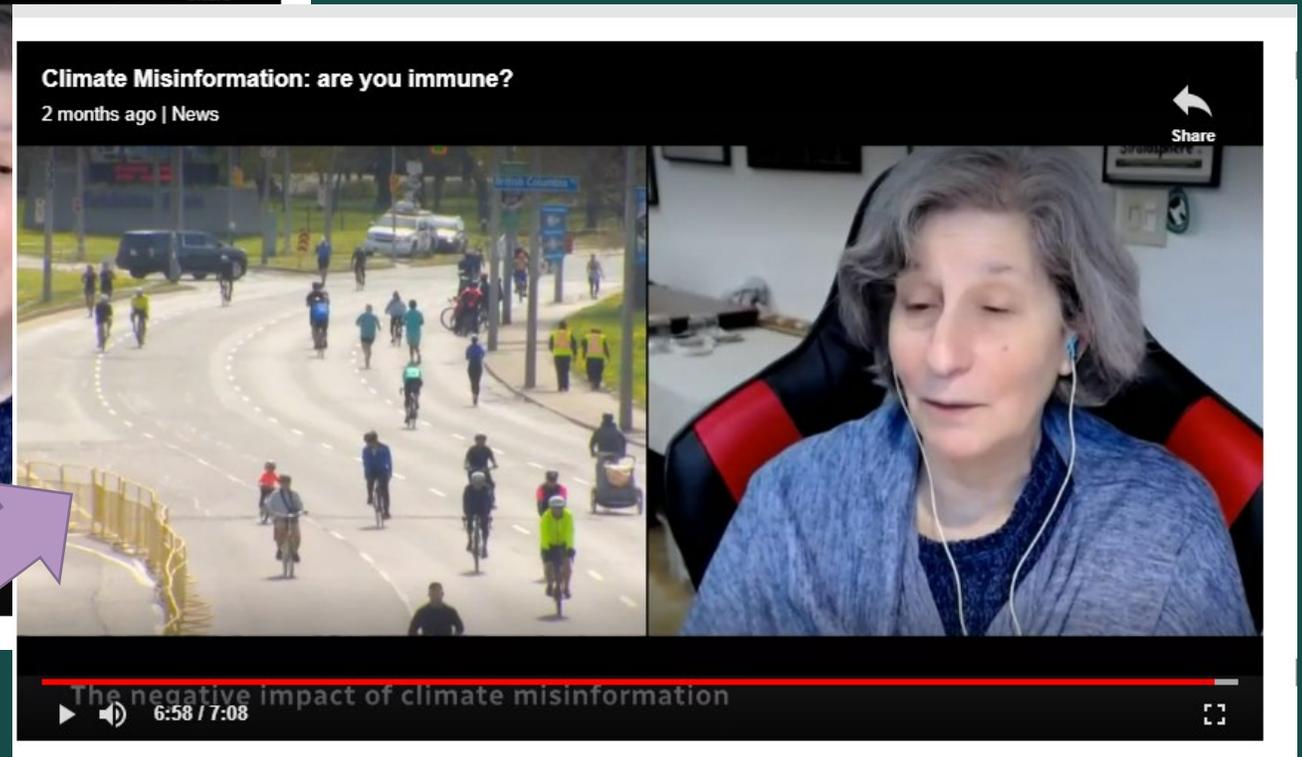
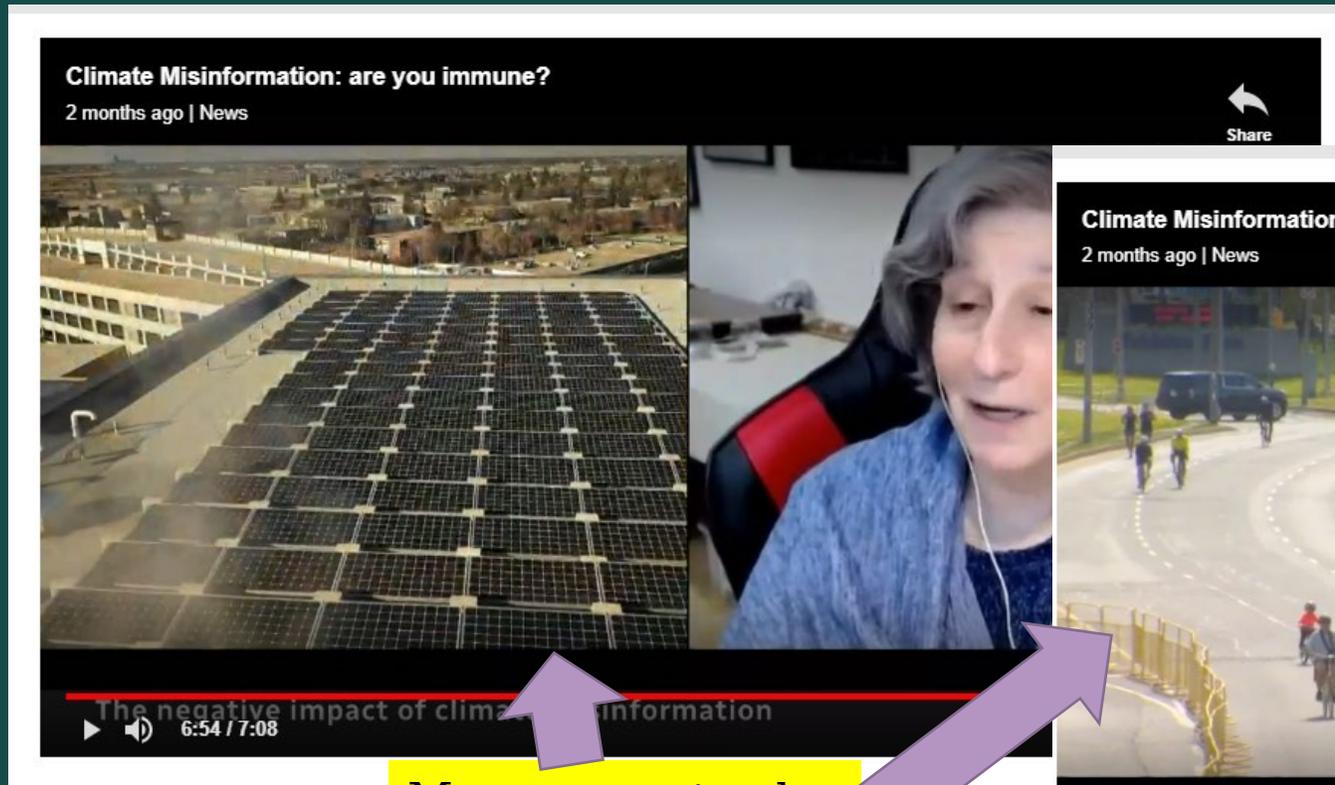
BBC.COM

Back to the "Climate Misinformation: are you immune?" story and the Ozone Layer



Propaganda. This is not a climate solution.

Why is a scientist being exploited to push 'climate solutions' that are not solutions at all?



More propaganda.
This is not a
climate solution.

Mining for "Critical Minerals" for Wind and Solar Needs Oil, Gas and Coal !

 Tribology International
Volume 115, November 2017, Pages 116-139

Global energy consumption due to friction and wear in the mining industry

Kenneth Holmberg,^a Päivi Kivikytö-Reponen,^a Pirita Härkisaari,^b Kati Valtonen,^b Ali Erdemir^c

Show more

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<https://doi.org/10.1016/j.triboint.2017.05.010> Get rights and content

Abstract

Calculations on the global energy consumption due to friction and wear in the mineral mining industry are presented. For the first time, the impact of wear is also included in more detailed calculations in order to show its enormous tribological and economic impacts on this industry. A large variety of mining equipment used for the extraction, haulage and beneficiation of underground mining, surface mining and mineral processing were analysed. Coefficients of friction and wear rates of moving mechanical assemblies were estimated based on available information in literature in four general cases: (1) a global average mine in use today, (2) a mine with today's best commercial technology, (3) a mine with today's most advanced technology based upon the adaptation of the latest R&D achievements, and (4) a mine with best futuristic technology forecasted in the next 10 years. The following conclusions were reached:

<https://www.sciencedirect.com/science/article/abs/pii/S0301679X1730235>

9

← Thread



John Lee Pettimore
@JohnLeePettim13

I get a lot of replies on my tweets, "Make mining Green" Energy consumption of mining is 6.2% of the total global energy consumption. The annual global energy consumption is 580 million terajoules or the energy equivalent of a Hiroshima nuclear bomb going off every four seconds.



5:23 PM · Jan 19, 2023 · 354.6K Views

The 1.5 °C goal is a POLITICAL, not a scientific target.
Young people have been misled and terrified by CBC.

Who are these people?



“We need to do more. Like...a lot more. In order to stick to our goal of limiting heating to 1.5 degrees Celsius and to avoid fast tracking to climate disaster.”



The sleep of reason produces monsters.

SpringerLink

Guardians of Public Value pp 295–321 | [Cite as](#)

Home > [Guardians of Public Value](#) > Chapter

The Intergovernmental Panel on Climate Change: Guardian of Climate Science

[Eric Paglia](#) & [Charles Parker](#) 

Chapter | [Open Access](#) | [First Online: 13 November 2020](#)

7312 Accesses | 6 Citations | 31 Altmetric

Abstract

This chapter analyzes the evolution of the Intergovernmental Panel on Climate Change from a specialist organization of climate scientists into an institution at the intersection of science and politics. We explain how the IPCC became the primary scientific authority for policymakers, the public, and climate activists on the existence, severity, and increasingly, possible solutions to anthropogenic climate change. We assess the influence of policymakers and governments, while examining the various tensions, contradictions that the organization and its leaders have had to grapple with throughout its history, during which it successfully developed a distinct identity as a trust.

Including these goals was significant because the 1992 UNFCCC simply called for the prevention of 'dangerous anthropogenic interference with the climate system' without specifying what counted as dangerous interference or what exactly needed to be done to avoid it. Although the 2 °C and 1.5 °C targets are political goals and not scientific ones, based on an ambiguous and somewhat contentious 'pre-industrial' baseline (Paglia and Isberg 2020), they were inspired by the IPCC's work and the IPCC's participation in Structured Expert Dialogues organized by the UNFCCC to review the 2 °C goal (Carraro et al.

Book PDF 

Book EPUB 



Yvo de Boer
former Executive Secretary
of the United Nations
Framework Convention on
Climate Change (UNFCCC)

"The only way that a 2015 agreement can achieve a 2-degree goal is to shut down the whole global economy."

China emits in one month what Canada emits in a year and a half.



Canadian GHG emissions constitute a tiny part of global GHG emissions

In 2019, Canada carbon dioxide (CO₂) emissions were 556 megatonnes (Mt) which is equal to 1.6 per cent of global emissions.

China's CO₂ emissions in 2019 were 9,826 Mt (according to British Petroleum data). In other words, China emits in one month (819 Mt/month) about what Canada emits in one and a half years. The average growth in emissions in China over the past decade is 212 Mt per year. Thus, Canada's annual CO₂ emissions represent only 2.6 times China's emissions *growth*. **If someone could instantaneously wipe Canada off the map, so that it produced zero emissions forever after, this would have a modest-to-negligible effect on global carbon dioxide concentrations in the atmosphere in 2100, and it would make no difference whatsoever as to whether the IPCC emissions reduction targets (i.e. 1.5 degrees or 2 degrees C.) were met.**

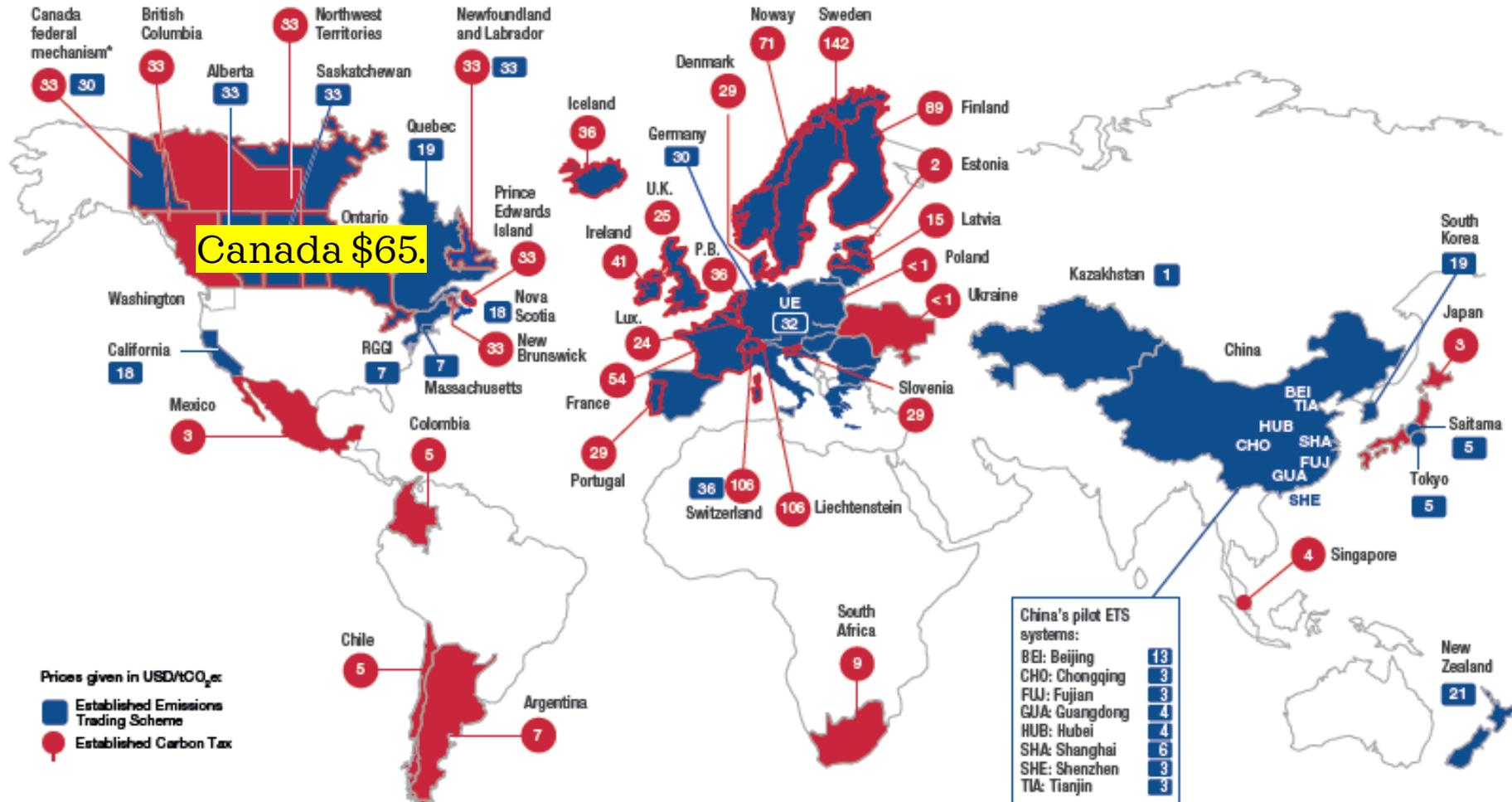
Let that sink in.



Image licensed from Shutterstock.

<https://blog.friendsofscience.org/wp-content/uploads/2020/08/Futile-Folly-aug-2020-Reissued-FINAL.pdf>

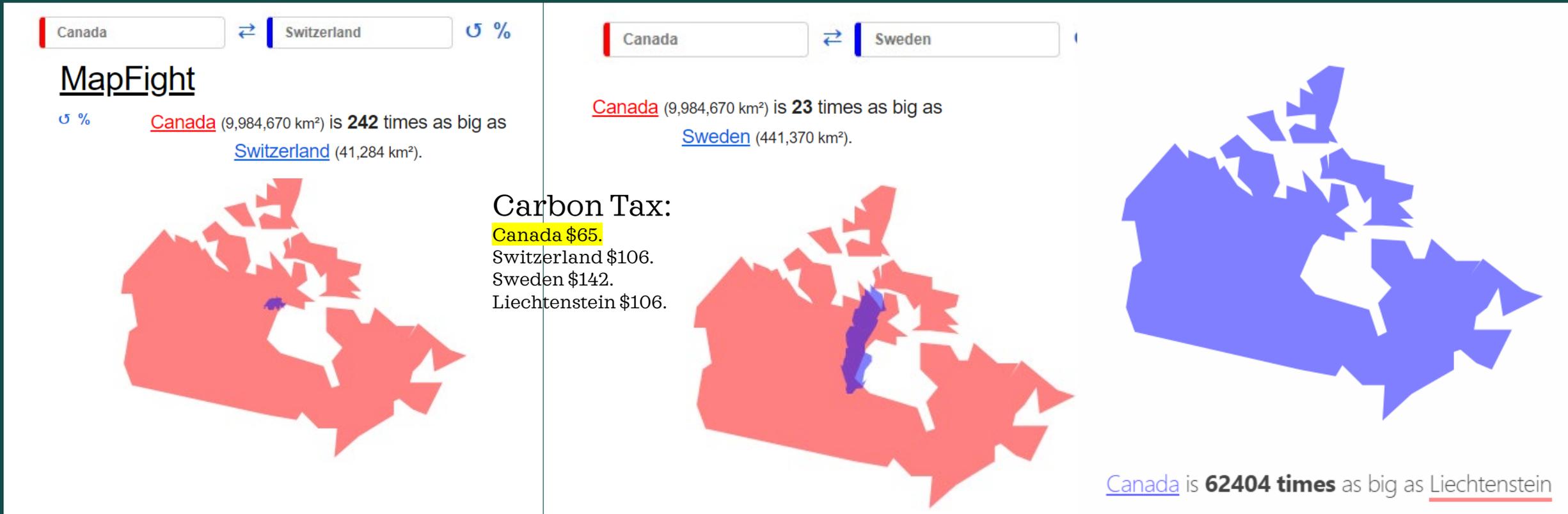
Map of explicit carbon prices around the world in 2021



<https://www.i4ce.org/en/publication/global-carbon-account-in-2021/>

Source: I4CE – Institute for Climate Economics with data from ICAP, World Bank, government officials and public information, October 2021.

In what country would a high carbon tax be most damaging to the economy?





Is there another reason CBC chose
to mock Joanne Nova?

Perhaps.

Or maybe I'm just wearing a tinfoil
hat.

JoNova
A perfectly good civilization is going to waste...



Posts Comments

JoNova

science presenter, writer, speaker & former host; author of The Skeptic's Handbook (over 100,000 copies distributed available in 15 languages).

Recent Posts

Why is temperature data a national secret? BOM still hiding data

Monday
Sunday

The crime of talking to Tucker Carlson and the Red-pilling of Naomi Wolf

Saturday

The Liddell coal: away for

Carbon tax cost \$5310 a ton. \$15 billion to abate almost nothing and cool the world by even less. »

« Songbirds detecting tornadoes two days ahead and fleeing?

Is the Sun driving ozone and changing the climate?

<https://joannenova.com.au/2015/01/is-the-sun-driving-ozone-and-changing-the-climate/>

In 2015 the hunt for clues continues...

The central mystery in climate science is the Sun. The direct energy from the 1.4 million-kilometer-wide flaming ball stays remarkably constant. The radiation pours down on us but the relentless sameness of the watts can't be causing of the swings in temperature on Earth. Something else is going on with the Sun. For one thing, the total light energy coming off the Sun stays almost the same but the type of light changes — the spectrum shifts — with more shorter wavelengths at one point in the cycle and longer wavelengths at the opposite part of the cycle. These have different effects. Shorter wavelengths (UV) generate ozone in the stratosphere and penetrate the ocean. Longer wavelengths don't. But the Sun is also sending out charged particles and driving a massive fluctuating magnetic field, both of which affect Earth's atmosphere.

But the tiny changes in total sunlight (TSI) may still be leaving us clues about other things going on with the Sun. David Evans' **notch-delay theory** is that TSI is a leading indicator, and after solar TSI peaks, the temperatures on Earth follows with a peak roughly 11 years or so later (or one solar cycle). But what's the mechanism? Stephen Wilde has a theory. Plug in your brain, and follow this chain of potential influence:

The Sun —> UV or charged particles —> ozone —> polar jet streams —> clouds —> surface temperatures.

Stephen Wilde put forward the first version of this **hypothesis in 2010**. It is long past time to get into those details.

Tip Jar

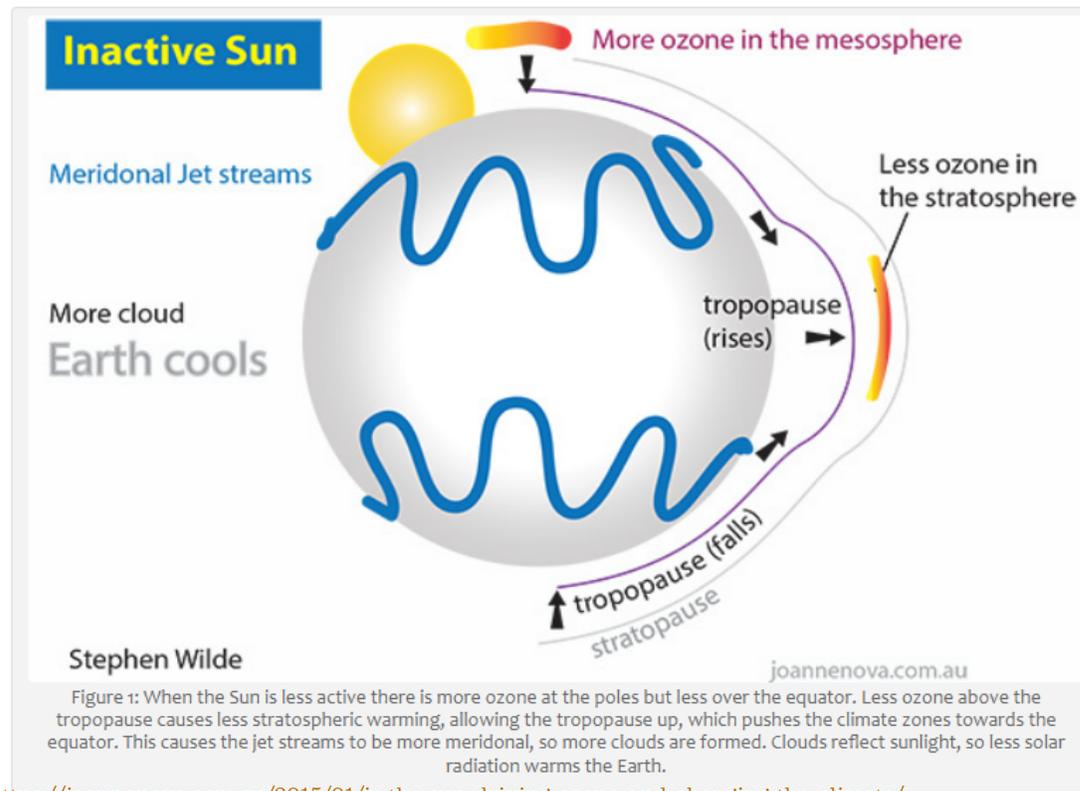


Jo appreciates your support to help her keep doing what she does. This blog is funded by donations. Thanks!



Summary of the Stephen Wilde Hypothesis

In essence: The Sun affects the ozone layer through changes in UV or charged particles. When the Sun is more active there is more ozone above the equator and less over the poles, and vice versa. An increase in ozone warms the stratosphere or mesosphere, which pushes the tropopause lower. There is thus a solar induced see-saw effect on the height of the tropopause, which causes the climate zones to shift towards then away from the equator, moving the jet streams and changing them from “zonal” jet streams to “meridonal” ones. When meridonal, the jet streams wander in loops further north and south, resulting in longer lines of air mass mixing at climate zone boundaries, which creates more clouds. Clouds reflect sunlight back out to space, determining how much the climate system is heated by the near-constant incoming solar radiation. Thus the Sun’s UV and charged particles modulate the solar heating of the Earth.

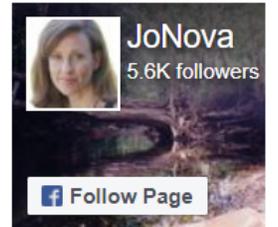


<https://joannenova.com.au/2015/01/is-the-sun-driving-ozone-and-changing-the-climate/>

weblog awards



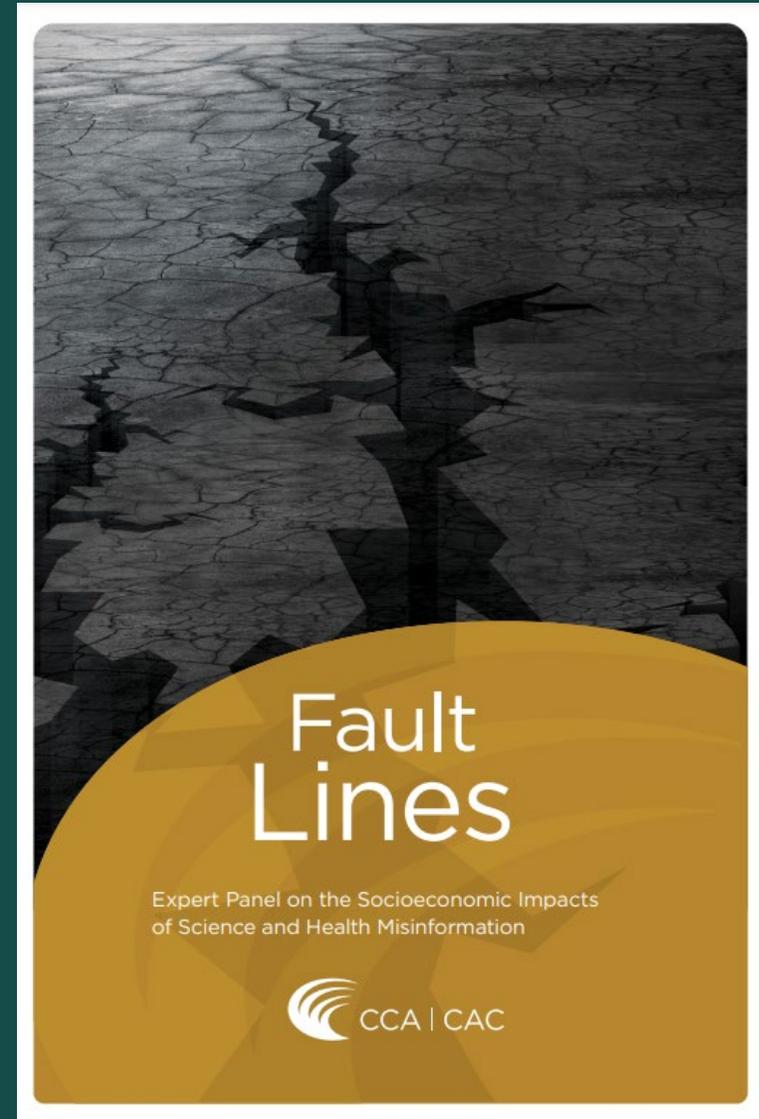
Follow Jo's Tweets



FINALIST

Weblog of the Year 2014
Best Topical Weblog

Now back to CBC's "Climate
Misinformation: are you immune?"



FINALLY, at 3:39 CBC mentions "Fault Lines" - a recent Canadian report. So that's what it is about! Why didn't she say so?

Think you're immune to bogus climate claims? Think again
12 days ago | News

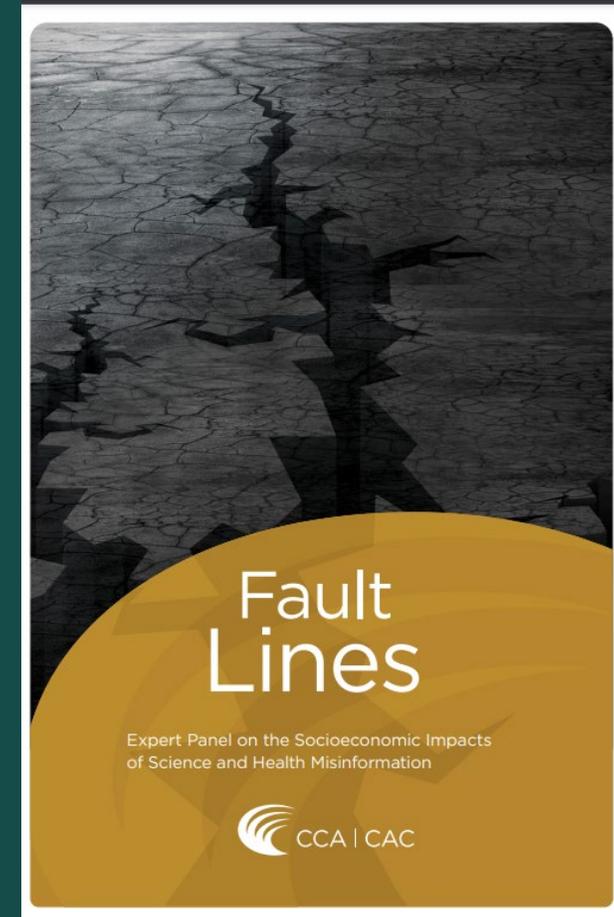
In addition to **doubt** **was manufactured** of chlorofluorocarbons (CFCs) on ozone depletion, the relationship between pollution and acid rain, and **long past the** smoking and lung cancer are all examples where doubt was **manufactured and promoted** in public and political forums long past the time when **time when scientific consensus was reached** (2010). Valid scientific evidence and consensus on the safety and health benefits of fluoridated drinking water and mumps-measles-rubella (MMR) vaccines have also failed to end ongoing public disputes over their potential harms (e.g., Pluviano *et al.*, 2017; MacVicar, 2021).

The negative impact of climate misinformation
3:46 / 8:04

Think you're immune to bogus climate claims? Think again

ADVERTISMENT

Document4 - Word Document5 - Word Doc



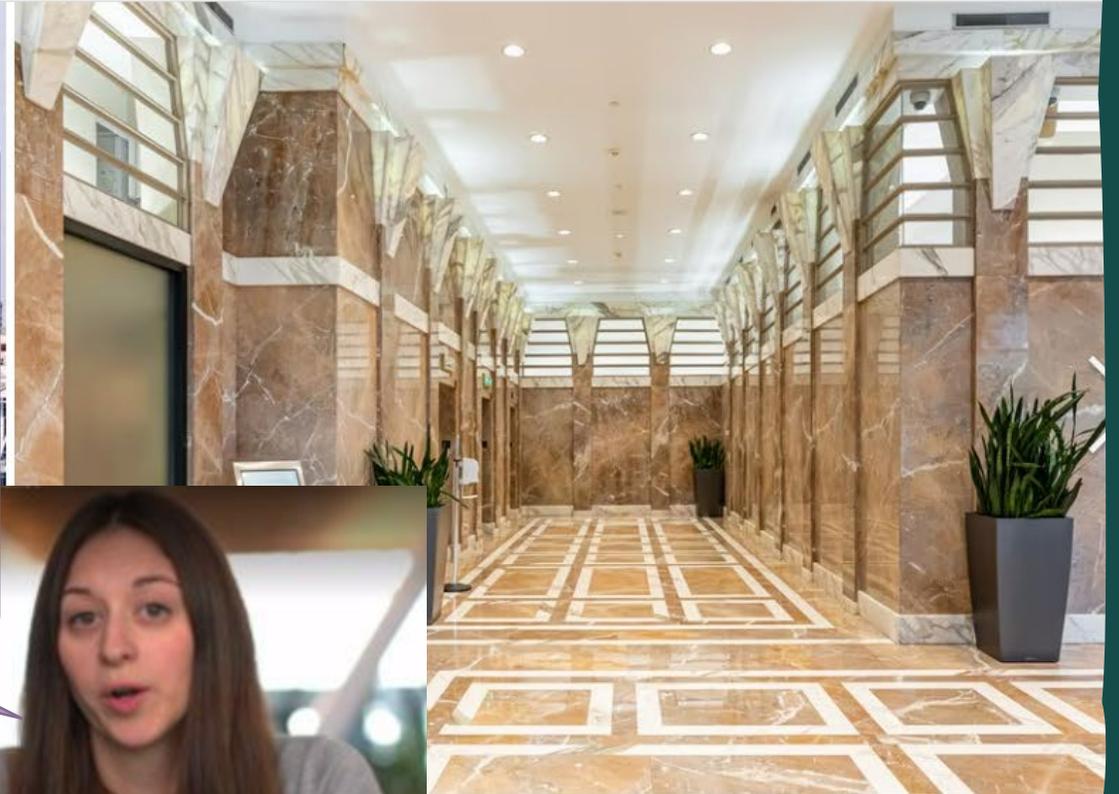
A Normal News Report
Goes like this...

Barrister House | 180 Elgin St

21,646 SF of Office Space Available in Ottawa, ON



Hi, I'm Jaela
Bernstien
for CBC
News,
reporting
from the
Canadian
Council of
Academies.



HIGHLIGHTS

Michael

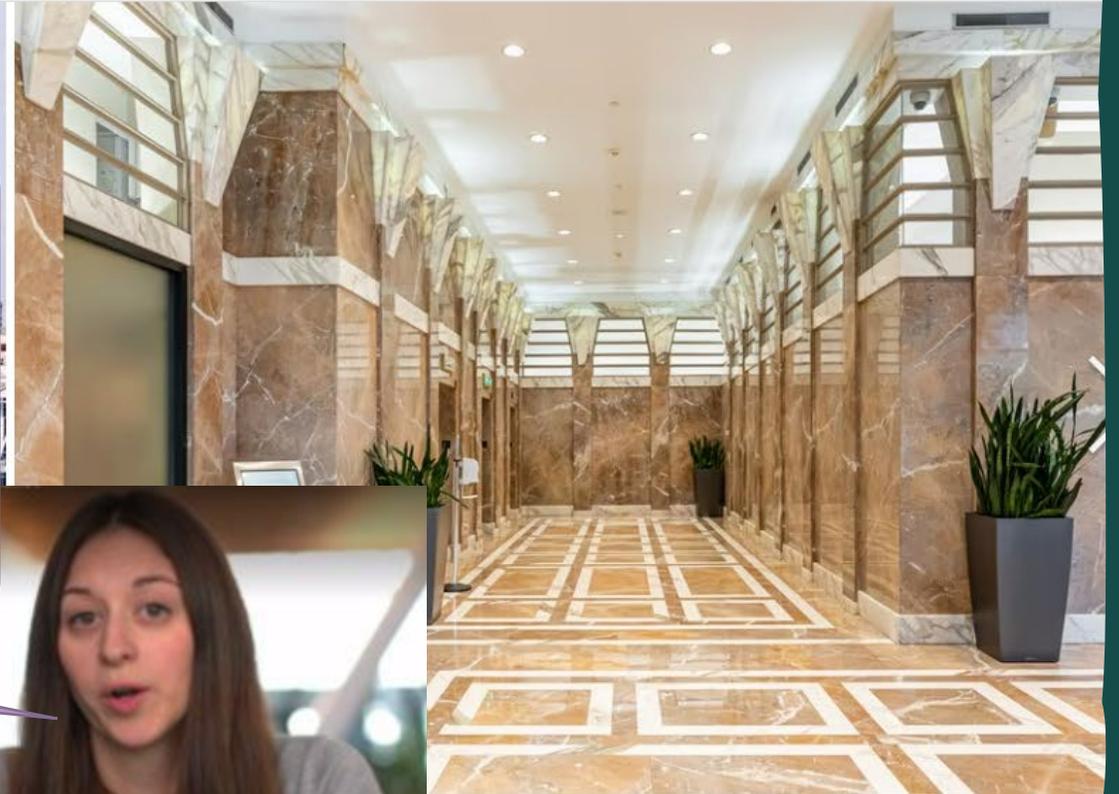
Barrister House | 180 Elgin St

21,646 SF of Office Space Available in Ottawa, ON

Office Space / Ontario / Ottawa / 180 Elgin St, Ottawa, ON K2P 2K3



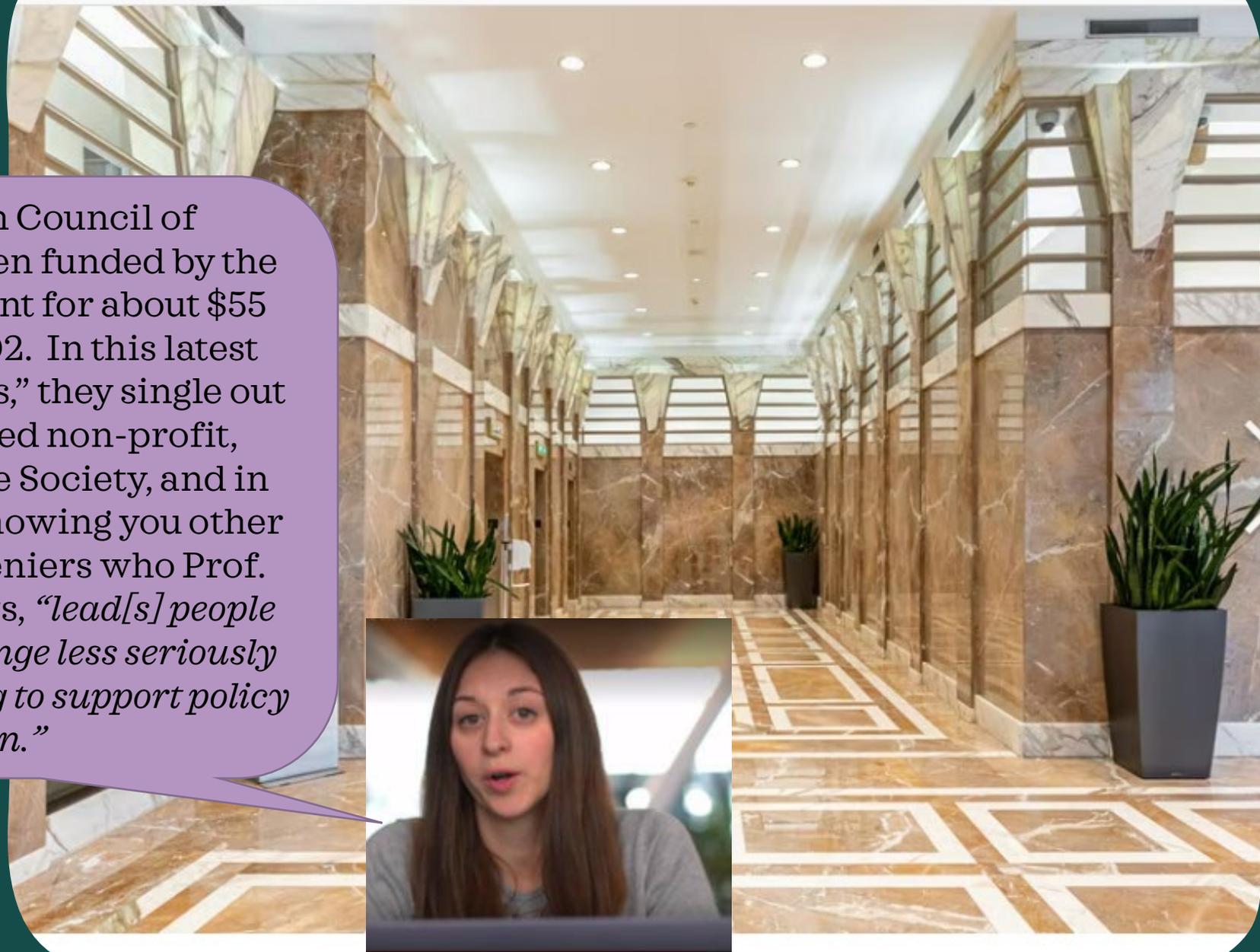
The Council's newest report "Fault Lines" tackles concerns about climate change misinformation. I talked with one of the expert panel members, Prof. Stephen Lewandowsky, Chair, Cognitive Psychology and Professor, School of Psychological Science, University of Bristol in the UK.



HIGHLIGHTS

Michael

The Canadian Council of Academies has been funded by the federal government for about \$55 million since 2002. In this latest report, "Fault Lines," they single out the Calgary-based non-profit, Friends of Science Society, and in this video, I'll be showing you other climate change deniers who Prof. Lewandowsky says, "*lead[s] people to take climate change less seriously and to be less willing to support policy action.*"





In reading "Fault Lines," I noticed that the Council of Canadian Academies expressed concern about Friends of Science Society's funding. In searching their website, I found documents from their AGM showing that Friends of Science Society operates on about \$150,000/year, with average member/donor contributions of \$100.

Their billboards contradict the 'consensus' view on climate change.

Friends of Science ask Psychological Sciences to Retract Lewandowsky Paper for Faulty Premise on Global Warming Climate Change Consensus



Friends of Science are calling for a retraction of a controversial paper by S Lewandowsky, published in Psychological Science, that claims climate ch critics are hoax and conspiracy theorists who allegedly believe "NASA fake moon landing." Friends of Science recent study that shows there is not a 'r than 90%' consensus as claimed by Lewandowsky, as a principal premise study, recent IPCC climate science reports confirm that there has been a h global warming for 16 years, despite a rise in human CO2 emissions, indic that natural factors are more responsible for climate change.

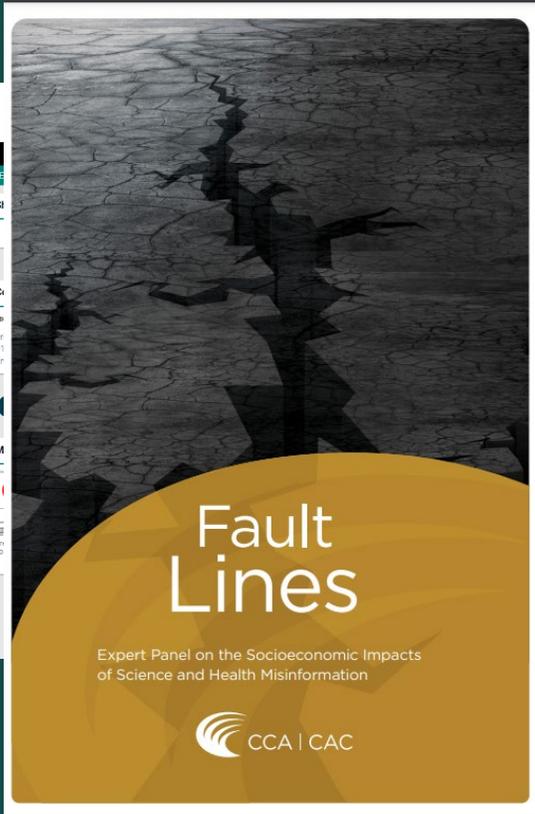
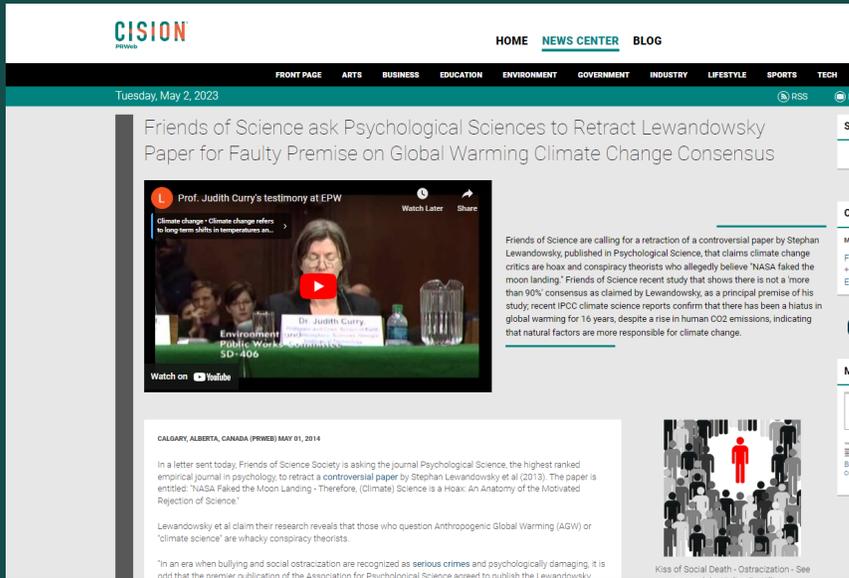
CALGARY, ALBERTA, CANADA (PRWEB) MAY 01, 2014

In a letter sent today, Friends of Science Society is asking the journal Psychological Science, the highest r et al (2013). TI ny of the Mot

From the release: "Lewandowsky et al claim their research reveals that those who question Anthropogenic Global Warming (AGW) or "climate science" are whacky conspiracy theorists."



I also found that in 2014, Friends of Science Society had called for the Journal Psychological Science to retract the controversial paper by Prof. Lewandowsky titled: "NASA Faked the Moon Landing.." on grounds that it violated publishing ethics - for a faulty 'consensus' premise and especially that it violated the publisher's commitment to freedom of speech. Their bid was unsuccessful.



From the Friend of Science 2014 press release:

"In an era when bullying and social ostracization are recognized as **serious crimes** and psychologically damaging, it is odd that the premier publication of the Association for Psychological Science agreed to publish the Lewandowsky work under this inflammatory title," says Ken Gregory, research director of Friends of Science, a climate science review organization. "Thousands of legitimate scientists and citizens, have been mocked and ostracized."

This same approach appears to underlie the recent "Fault Lines" report by the Canadian Council of Academies, which does not countenance rational scientific dissent on public policy.



“Science has progressed through a uniquely productive marriage of human creativity and hard-nosed skepticism, of openness to new scientific contributions and persistent questioning of those contributions and the existing scientific consensus.”

Further research reveals that hard-nosed skepticism is integral to responsible scientific inquiry.



National Academies: On being a Scientist: Responsible Conduct in Research (1995)

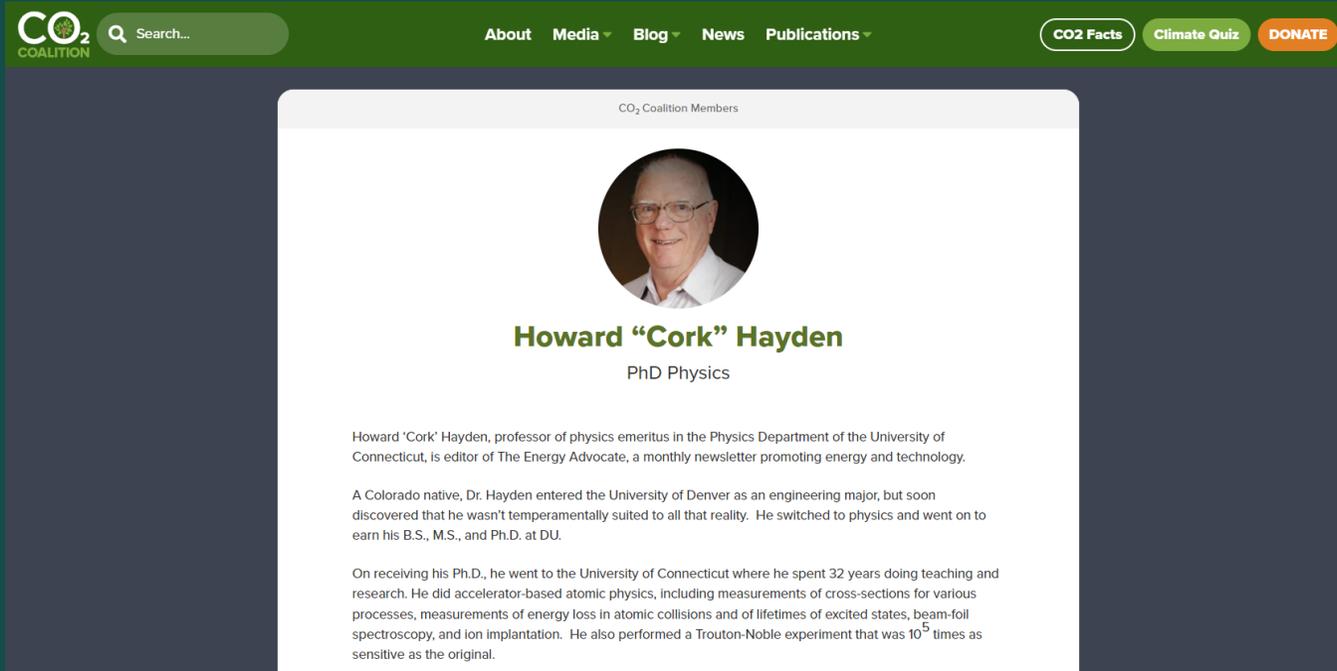
Type Two Scientific Misconduct - Cabbolet (2013)

- “Smear
- A few tell-tale signs that make clear that smear has nothing whatsoever to do with a scientific discourse:
 1. it always concerns false allegations that more often than not are peppered with strong pejoratives;
 2. it always **gravely discredits someone else’s research as despicable;**
 3. it always involves a gross violation of the principle of carefulness, one of the principles of good scientific practice, with regard to checking the correctness of the allegations; **more often than not, the allegations are taken straight to the mass media, that is, without any prior discussion with the author(s) of the targeted work.”**

It turns out that it is a form of Type Two Scientific Misconduct to call people ‘deniers’ and not engage in EVIDENCE-based scientific debate.



CBC also delegitimizes a distinguished scientist Prof. Howard "Cork" Hayden. Again, they don't mention his name or qualifications.



The screenshot shows the CO2 Coalition website. The header includes the logo, a search bar, and navigation links for About, Media, Blog, News, and Publications. There are also buttons for CO2 Facts, Climate Quiz, and DONATE. The main content area features a profile for Howard "Cork" Hayden, PhD Physics. The profile includes a circular portrait of an older man with glasses and a white shirt. Below the portrait, the name "Howard 'Cork' Hayden" is written in bold, followed by "PhD Physics". A short biography follows, stating he is a professor emeritus at the University of Connecticut and editor of The Energy Advocate. A longer paragraph describes his background as a Colorado native who switched from engineering to physics at the University of Denver, earning his B.S., M.S., and Ph.D. at DU. A final paragraph details his research at the University of Connecticut, including work on accelerator-based atomic physics and the Trouton-Noble experiment.

<https://co2coalition.org/teammember/howard-cork-hayden/>

Hayden is also editor of *The Energy Advocate*, a monthly newsletter promoting energy and technology, which in August 2017 begins its 22nd year of publication. He is the author of, among other publications, *The Solar Fraud: Why Solar Energy Won't Run the World* (Vales Lake Publishing LLC, 2002, 2d edition 2005), *A Primer on CO2 and Climate* (Vales Lake Publishing LLC, 2007), *A Primer on Renewable Energy* (Vales Lake Publishing, LLC), and *Bass Ackwards: How Climate Alarmists Confuse Cause with Effect* (Vales Lake Publishing, LLC).

'Cork' Hayden: "I wouldn't see anything wrong with 2,000 ppm CO₂."



Climate Misinformation: are you immune?
2 months ago | News

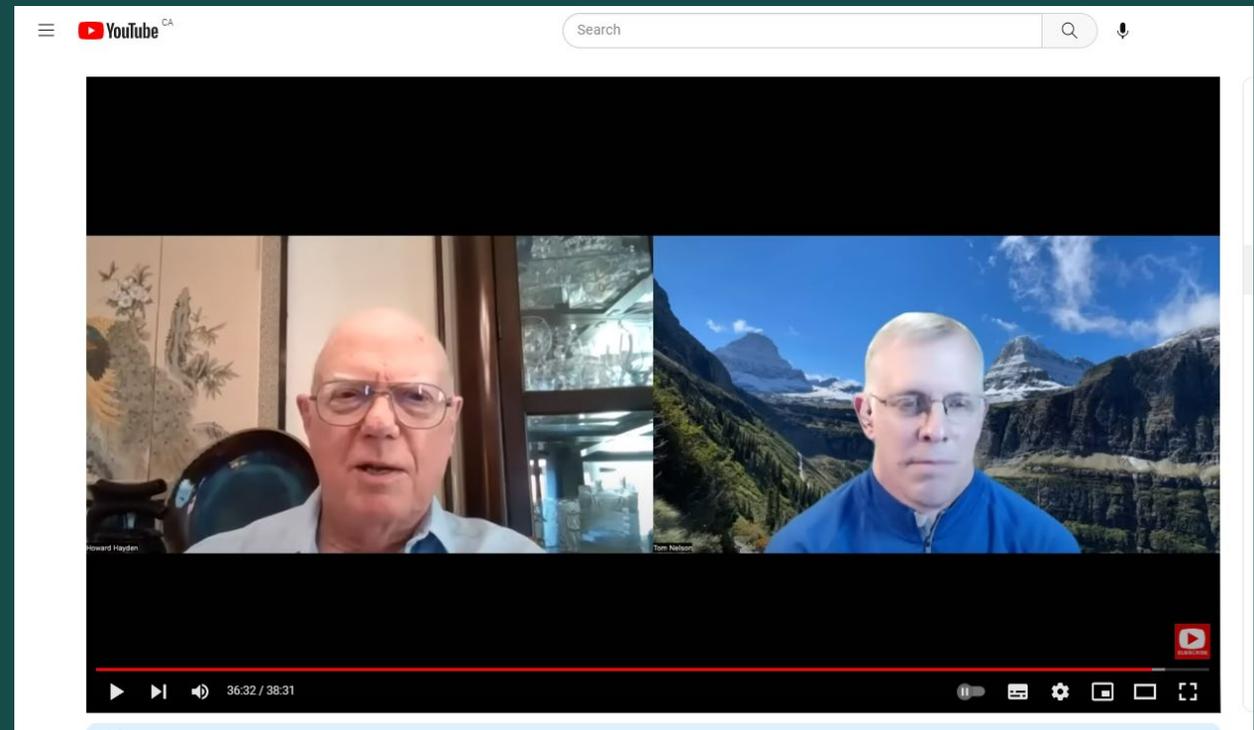
13,000 views

The negative impact of climate misinformation
0:30 / 7:08

Climate Misinformation: are you immune?
2 months ago | News | 7:08

Despite the growing number of extreme weather events-- Climate change denial is still very much out there-- particularly on social media. While a lot of people may ignore it, that doesn't mean it doesn't make a lasting impact. Jaela Bernstein looks into the issue.

Learn more



YouTube CA

Search

Edward Hayden

Tom Nelson

36:32 / 38:31

Prof. Hayden, in his podcast with Tom Nelson, shows how the IPCC is wrong in a crucial calculation.

<https://youtu.be/LPPOItFaees>

Prof. Hayden challenges the IPCC - Intergovernmental Panel on Climate Change - with a Scientific Challenge

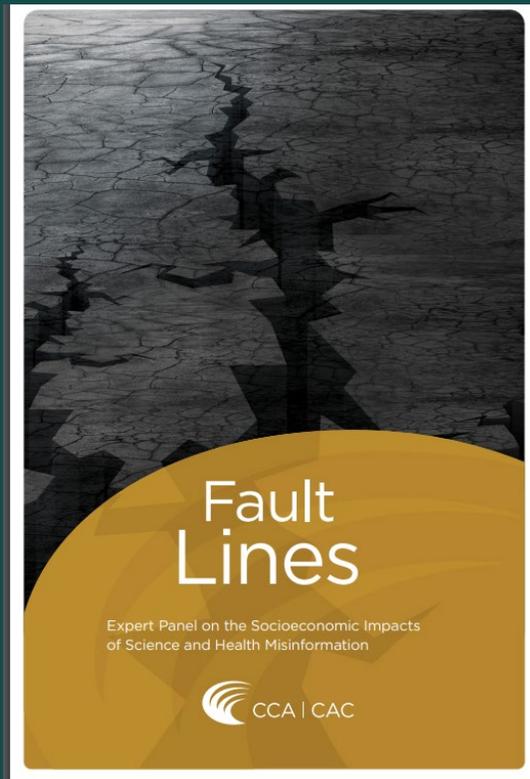
The screenshot shows a news article from 'News' dated '2 months ago'. The main headline is 'Climate Misinformation: are you immune?'. Below the headline is a video player with a white overlay box containing the following text: 'Climate Change 2022: Impacts, Adaptation and Vulnerability Working Group II Contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change'. The video player shows a progress bar at 4:30 / 7:08. Below the video player, the article text begins: 'Despite the growing number of extreme weather events-- Climate change denial is still very much out there-- particularly on social media While a lot of people may ignore it, that doesn't mean it doesn't make a lasting impact. Jaela Bernstein looks into the issue.' There is a 'Learn more' button at the bottom right of the article snippet.

[Prof. Lewandowksy] He's talking about this body of evidence, climate denial creates polarization, erodes trust in science, and **undermines support for cutting emissions.** It's gotten bad enough that the UN flagged misinformation in its report as limiting climate action.



Note that the IPCC's Working Group II is NOT the physical science Working Group I - the WGI only mention 'crisis' and 'emergency' once in their AR6 report in reference to media coverage...not science.

Seems like "Fault Lines" is also a kind of teaching tool, and this odd CBC story by Jaela Bernstien a model for others... narrative storytelling, rather than reporting.



Narratives and medium can help counter misinformation

Because we like to believe we are right, framing a refuting message so it is compatible with an audience's beliefs improves message uptake (Kahan, 2010). In science communication, framing refers to how a message is constructed — this includes building a narrative, simplifying the information, and emphasizing some aspects over others, so that it resonates with the intended audience (Yang & Hobbs, 2020). For instance, describing actions to mitigate climate change as “patriotic” (e.g., “the American way of life”) or calling a tax a “carbon offset”

Many thanks to John Robson at Climate Discussion Nexus for the Heads-up on "Fault Lines." He compares the report to the Babylon Bee. He's also sad that his CDN was left out.

The report even singles out the "Calgary-based Friends of Science" for a good rubbishing on the grounds that "It is difficult to trace the funding sources behind Friends of Science, but the fossil fuel industry is among its contributors (Montgomery, 2006; Gorrie, 2007)" while ignoring poor old CDN

DR. JOHN ROBSON

EXECUTIVE DIRECTOR

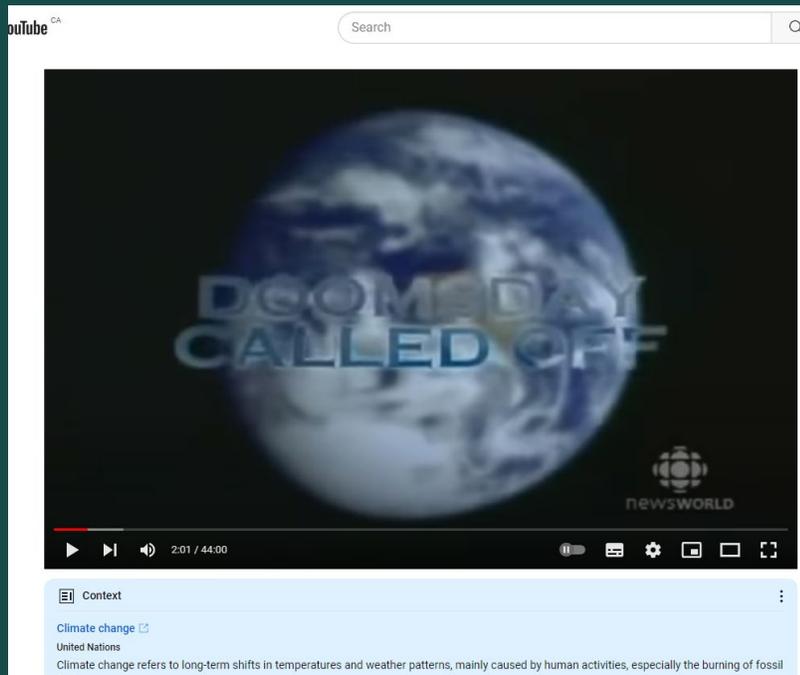
John Robson holds a Ph.D. in American History from the University of Texas at Austin and has worked as a historian, policy analyst, journalist and documentary filmmaker for three decades. He has been examining the climate change issue for many years, including both the science and the policy debates.



The screenshot shows the top of a website with the logo "CLIMATE DISCUSSION NEXUS" and navigation links: HOME, ABOUT, VIDEO, BLOG, STORE, REPORTS, NEWSLETTER, CONTACT, and a search icon. A blue "DONATE" button is on the right. Below the navigation is a large image of hands moving wooden blocks that spell "FACTS". The article title "Shut up, they explained" is displayed, followed by the date "01 Feb 2023 | News Roundup" and social media icons for Facebook and Twitter. A cartoon stick figure with a leaf is to the right. The article text begins: "An outfit called the Council of Canadian Academies was just paid handsomely by the government to say people should not disagree with the". A yellow "See Comments" button with a dropdown arrow is at the bottom right.

<https://climatediscussionnexus.com/2023/02/01/shut-up-they-explained/>

There was a time when CBC did cover dissenting views.
2004. "Doomsday Called Off."



Doomsday Called Off (2004)

[Rathnakumar S](#)

1.58K subscribers

3,571 views Mar 8, 2015

Doomsday Called Off (2004) A CBC documentary

Director:

Lars Mortensen

Scientists interviewed:

David Legates University of Delaware

Jorgen Peder Steffensen Niels Bohr Institute

Sallie Baliunas Harvard-Smithsonian Center for

Astrophysics

John Christy University of Alabama in Huntsville

Nils-Axel Morner (1938-2020) Stockholm University

Hat tip to Norm Kalmanovitch, P. Geoph.

Many thanks to Norm Kalmanovitch, P. Geoph.

CBC 2004 Documentary “Doomsday Called Off” All commentary from accredited scientists



Two years later the CBC calls these scientists “deniers”

Canada's Premiere
Investigative Series

A 2006 [British report](#) estimated that the projected costs of global warming to be as costly as both world wars and the Great Depression added together.

Yet, with such consequences, some scientists still insist that climate change, if it is happening at all, could be a good thing.

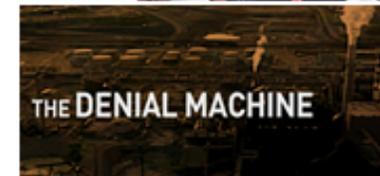
The Denial Machine investigates the roots of the campaign to negate the science and the threat of global warming. It tracks the activities of a group of scientists, some of whom previously consulted for Big Tobacco, and who are now receiving donations from major coal and oil companies.

Who is keeping the debate of global warming alive?



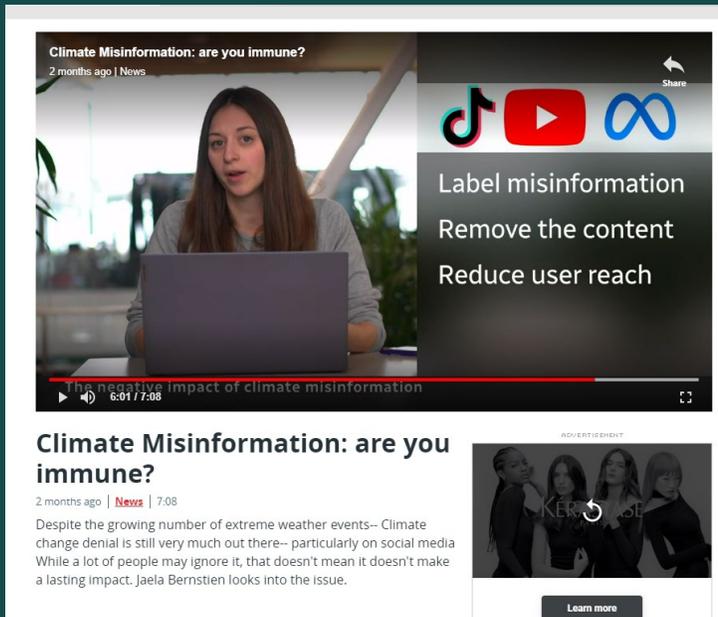
When To Watch
Fridays at 9 p.m.

A NEW SEASON,
A NEW WEBSITE.
Click here to visit

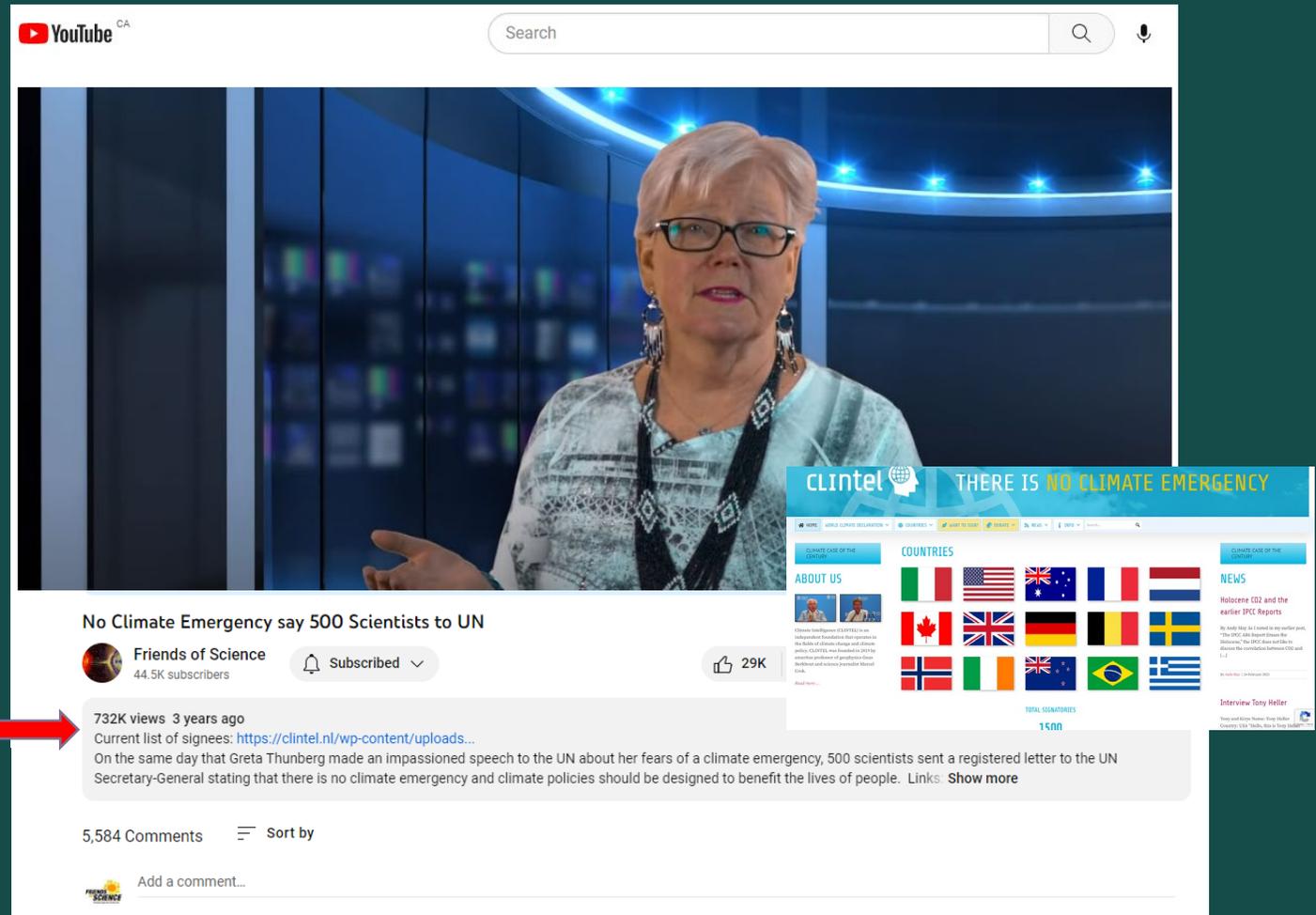


ORIGINALLY AIRED:
November 15, 2006 on
CBC-TV
UPDATED:
October 24, 2007 at
9pm on CBC-TV

It is concerning that CBC has appointed itself judge and jury on content, telling social media companies to take down content. We are being censored. More so than in the past.



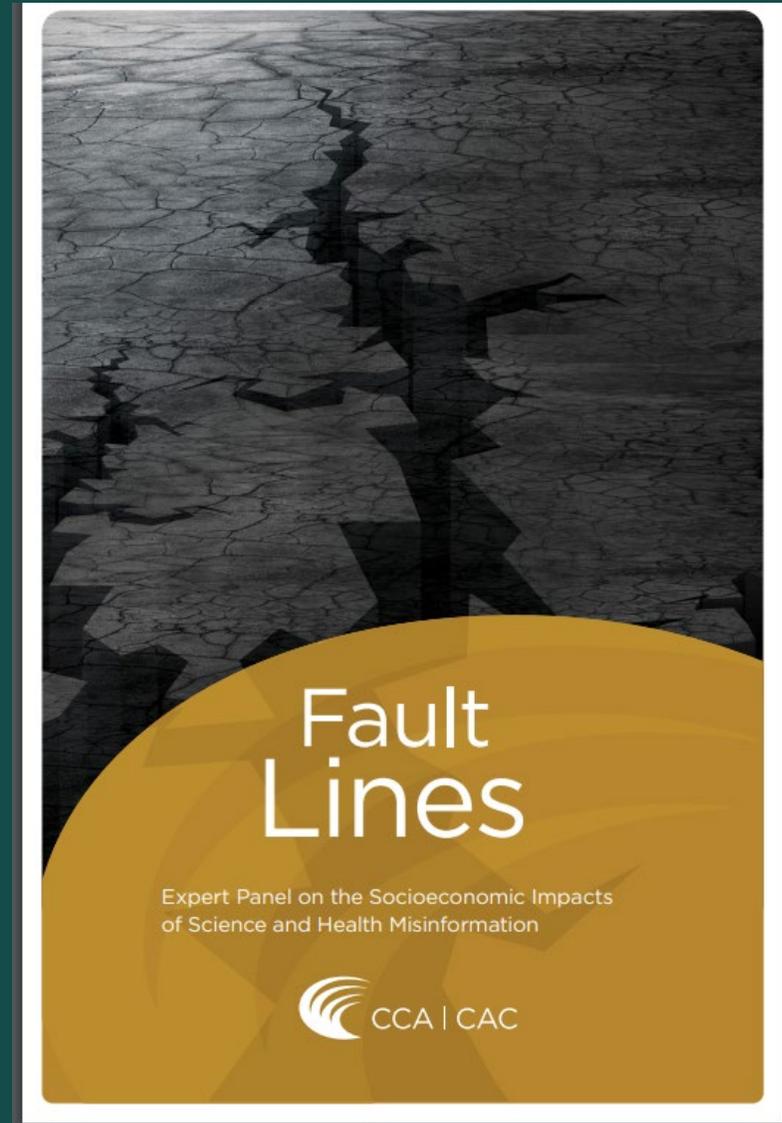
Facebook blocks this video - still reached
732,000 views
29,000 likes
5,584 comments



Was the "Fault Lines" report meant to be justification to social media platforms for Canadian government censorship under Bill C-11 and potentially Bill C-36?

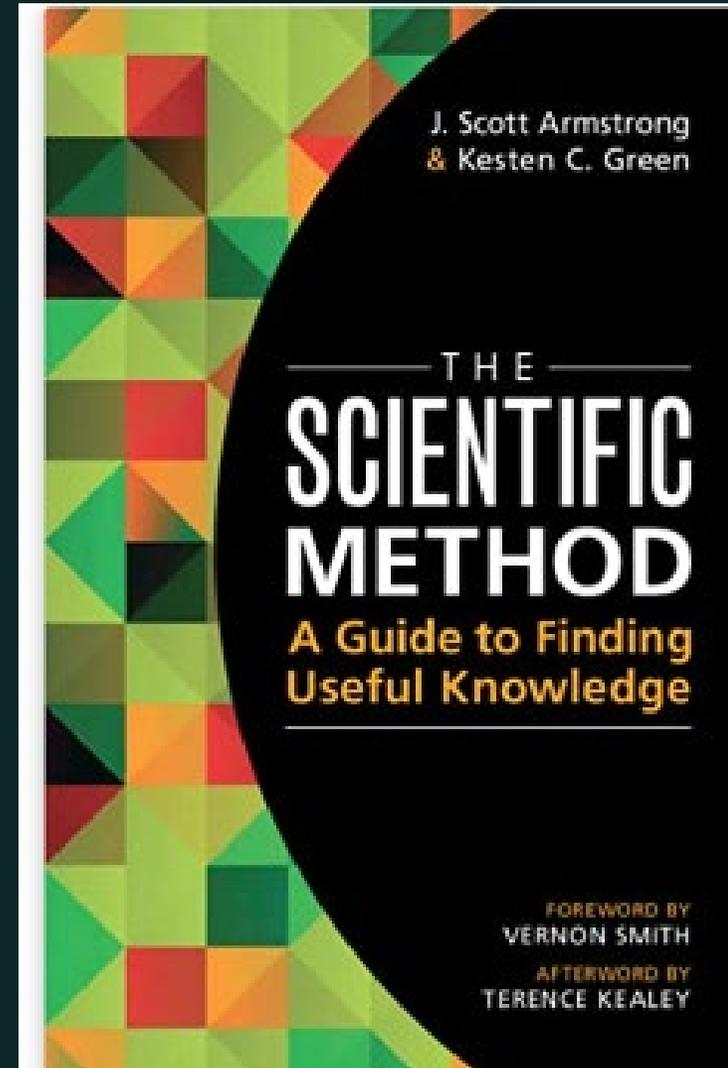
If so, the report does not meet the standard for scientific quality in any way, shape or form.

"And the solution couldn't be more patronizing if the report were Babylon Bee satire..."
- John Robson on "Fault Lines"

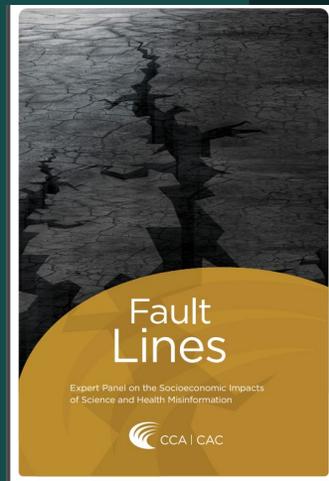


- Study important problems
- Build on prior knowledge
- Provide full disclosure
- Use objective designs
- Use valid and reliable data
- Use valid simple methods
- Use experimental evidence
- Draw logical conclusions

<https://www.amazon.ca/Scientific-Method-Finding-Useful-Knowledge/dp/1009096427>



If CBC had done a real report, they would have noted that subverting science academies for political ends is historically known as "Lysenkoism."



The Academies

The CCA is supported by its three founding Academies:

The Royal Society of Canada (RSC)

Founded in 1882, the RSC comprises the Academies of Arts, Humanities and Sciences, as well as Canada's first national system of multidisciplinary recognition for the emerging generation of Canadian intellectual leadership: The College of New Scholars, Artists and Scientists. Its mission is to recognize scholarly, research, and artistic excellence, to advise governments and organizations, and to promote a culture of knowledge and innovation in Canada and with other national academies around the world.

The Canadian Academy of Engineering (CAE)

The CAE is the national institution through which Canada's most distinguished and experienced engineers provide strategic advice on matters of critical importance to Canada. The Academy is an independent, self-governing, and non-profit organization established in 1987. Fellows are nominated and elected by their peers in recognition of their distinguished achievements and career-long service to the engineering profession. Fellows of the Academy are committed to ensuring that Canada's engineering expertise is applied to the benefit of all Canadians.

The Canadian Academy of Health Sciences (CAHS)

The CAHS recognizes excellence in the health sciences by appointing Fellows based on their outstanding achievements in the academic health sciences in Canada and on their willingness to serve the Canadian public. The Academy provides timely, informed, and unbiased assessments of issues affecting the health of Canadians and recommends strategic, actionable solutions. Founded in 2004, the CAHS appoints new Fellows on an annual basis. The organization is managed by a voluntary Board of Directors and a Board Executive.

Mao Zedong adopted Lysenko's methods.
~36 million died in China. Cancel Culture made it all possible.

**TOMBSTONE
THE GREAT
CHINESE
FAMINE
1958–1962
YANG JISHENG**

"A landmark in the Chinese people's own efforts to confront their history."
—Ian Johnson, *The New York Review of Books*

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...mm. According to Zhang Shufan's memoirs, some twelve thousand struggle sessions were held in the prefecture,⁷ and all kinds of ridiculous statements were made under political pressure.

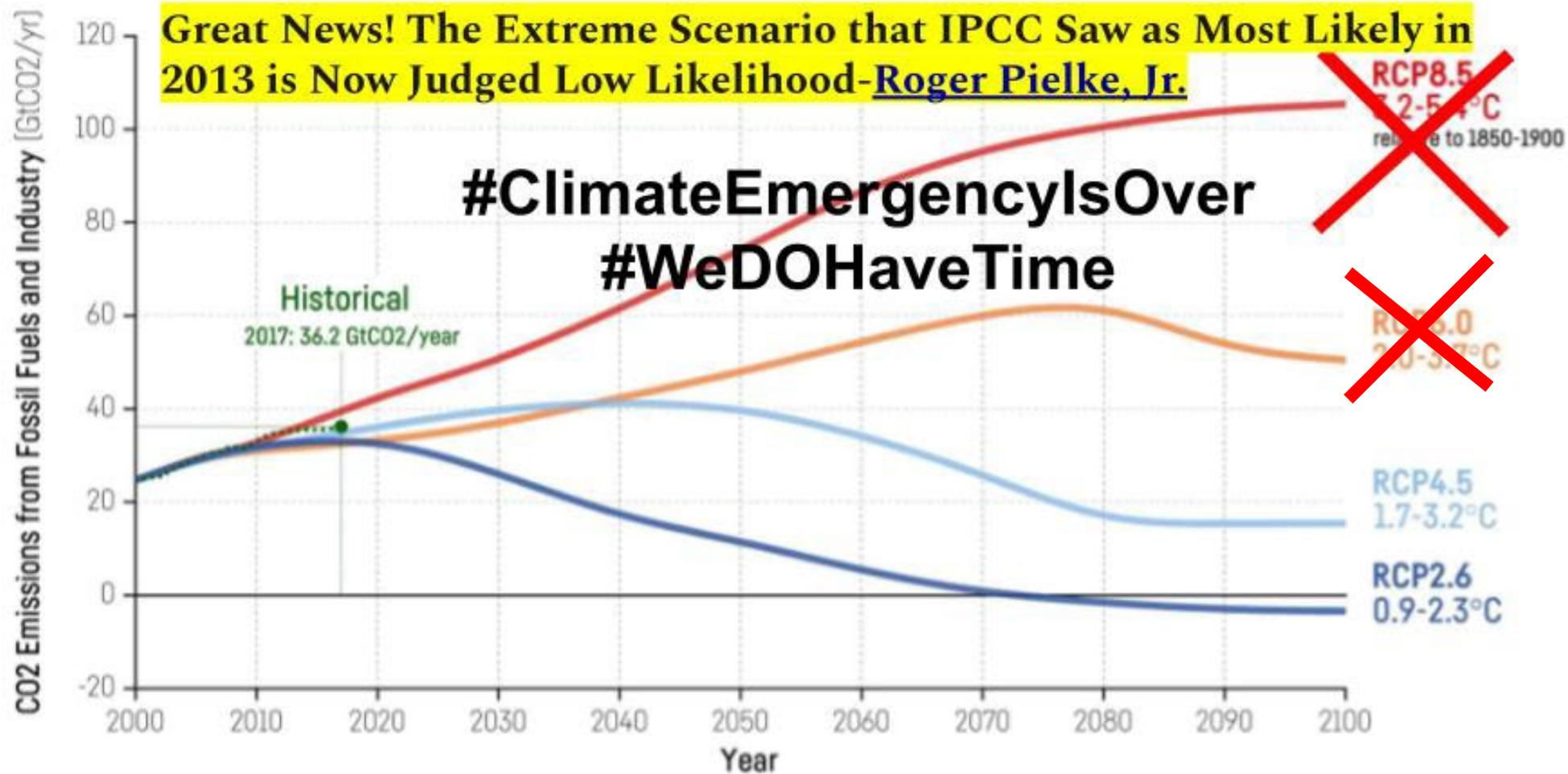
In 1958, Xinyang's Suiping County was given nationwide publicity for Great Leap production successes referred to as Sputniks, or "satellites." These "grand achievements" were attributed to the "struggle against right-deviating conservatism." In an atmosphere of extreme political pressure, anyone who dared question the accuracy of these reported crop yields risked being labeled a "doubter" or "denier" engaged in "casting aspersions on the excellent situation," and anyone who exposed the fraudulence of the high-yield model was subjected to struggle.

A drought in 1959 drove down Xinyang's crop yields, but prefectural party cadres, overcome by fanaticism, proposed the slogan of "Big drought, big harvest" and claimed higher yields than the year before. Commissioner Zhang Shufan, who was directly responsible for agricultural... convened a meeting of leading county cadres to

Good News You Will Not See
on CBC



CO2 Emissions from Fossil Fuels and Industry: RCP Scenarios vs. Historical

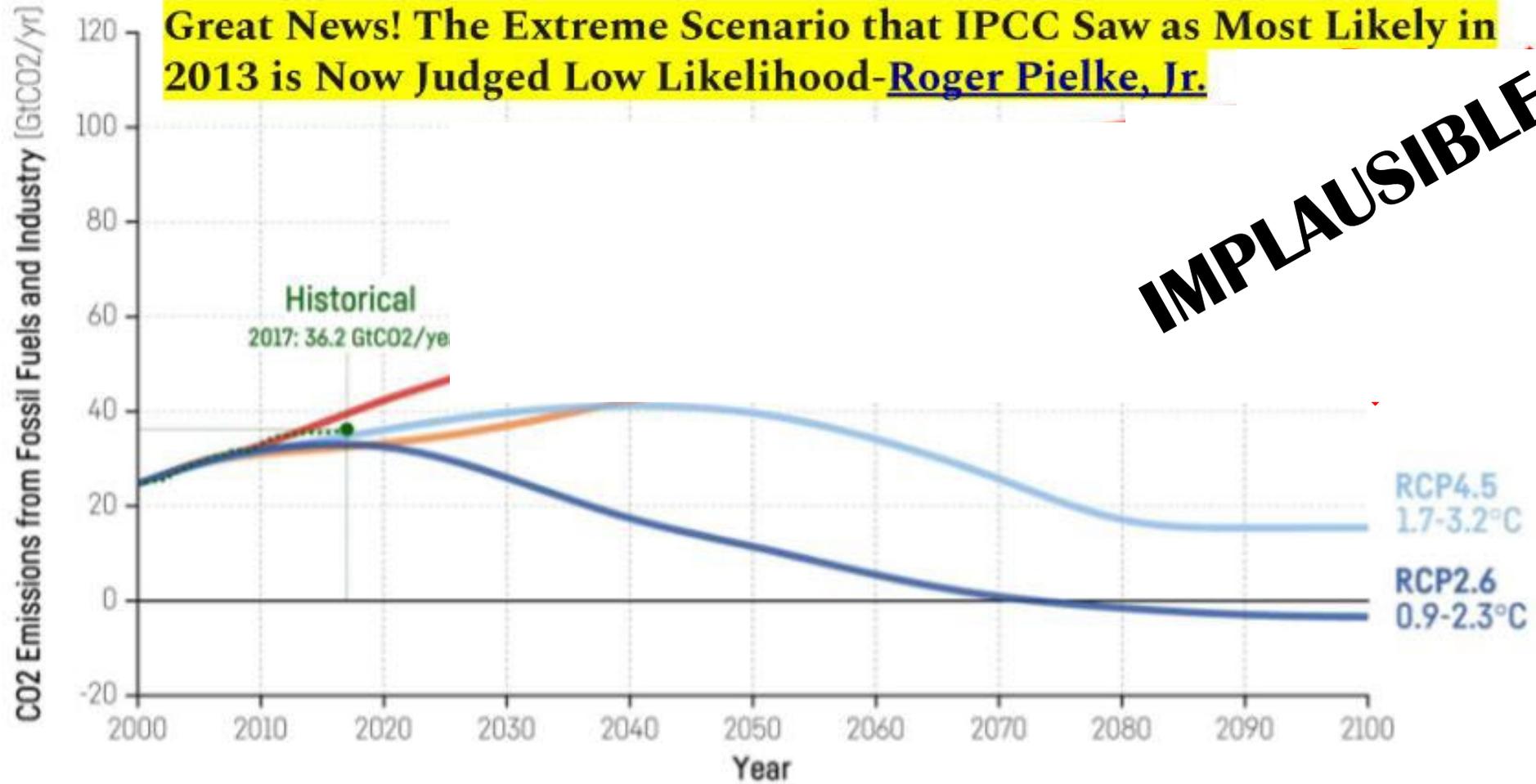


Data sources: IIASA RCP Database; Global Carbon Project 2018

via Twitter (@jritch) - Justin Ritchie, University of British Columbia

CO2 Emissions from Fossil Fuels and Industry: RCP Scenarios vs. Historical

Great News! The Extreme Scenario that IPCC Saw as Most Likely in 2013 is Now Judged Low Likelihood-Roger Pielke, Jr.



Data sources: IIASA RCP Database; Global Carbon Project 2018

via Twitter (@jritch) - Justin Ritchie, University of British Columbia

**“CO₂ is not a control knob
that can fine tune climate...”**



Judith Curry
Atmospheric Scientist
Georgia Tech


**FRIENDS
OF SCIENCE.org**

PATTISON

The 2-degree-C Delusion

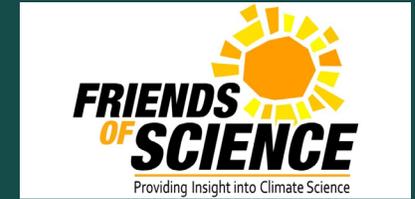
Unconcerned about climate – likely more concerned about health care, education, the economy, jobs, trade, immigration, or global terrorism.	Concerned about pollution more than Climate	Concerned about human impacts on Climate	Concerned about Climate, and pollution but want to see a Cost-Benefit Analysis	Worried about Climate Change – but find messages confusing and contradictory. “Why does Al Gore fly so much?” “If there was warming and cooling before, how is this different?”	Angry that people think the economy matters over climate and future of the planet. “What about my kids?”	Terrified of a climate apocalypse. May decide to go vegan, not to have children, not to drive or may engage in other sacrifice to save the planet.
A Spectrum of Some Views on Climate Change						

We live in a democracy. As with any topic, there will be diverse points of view and demands for change depending on one's values. We have to find solutions that are cost-effective and reasonable.

Friends of Science Society stands for open, civil debate and full cost-benefit analysis on climate and energy policies.



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\$21 to Celebrate as we enter our 21st Year!

Etransfers: contact@friendsofscience.org



<https://youtu.be/KnipKZAhgW4>

Help us educate the public!
Join. Donate. Sponsor. Share!

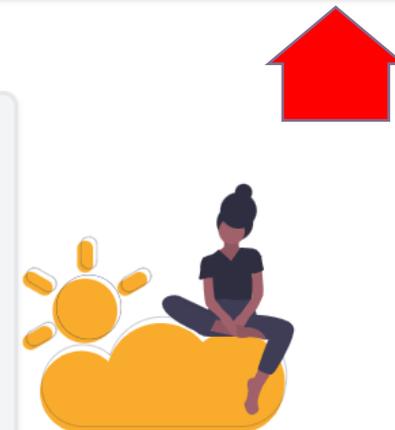
Are You Getting The Whole Story?

It is common to hear alarming statements about climate change and calls to reduce CO₂.

We invite you to explore with us our Climate Essay to review some of the context behind that alarm, the objective facts and the motivators which have transformed this scientific topic into a political one.

Climate Change 101 also provides similar context but with a less scientific style.

The Library is a repository of all we have on Climate and it's designed for everyone to easily find what they need.

[CLIMATE ESSAY](#)[CLIMATE CHANGE 101](#)[EXPLORE LIBRARY](#)

Climate Change Facts

Politics doesn't have to take the driver's seat on this issue. We have compiled materials for everyone, bringing together thousands of peer reviewed journal articles, essays, books, charts, links, videos and presentations for you to explore and discover new aspects of these issues.

[BLOG](#)[REPORTS](#)

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