Global Warming and CO_2
Introduction

Is Global Warming a Man-Made Crisis Caused by Increased CO_2 Emissions?

Given my background as a professional geologist and geophysicist, I was initially surprised by claims that mankind was causing a climate change crisis, with an emphasis on crisis. I was aware of prior ice ages, climate change and changing sea levels that occurred well before mankind arrived. I was also aware that CO_2 is very important for plant life. I also listened to Jordan Peterson talk on speaking the truth. Dr. Jordan Peterson: SPEAK THE TRUTH!

This drove me to research this subject in much more detail. I invite you to do the same and offer this material for your consideration.

"The ignorant person affirms, the scientist doubts, the wise person reflects." - Aristotle

Graeme Phipps Professional Geophysicist and Geologist

email: graeme@phippsandassociates.com

Cooling Doomsday Rhetoric Affords Rational View of Climate | Newsmax.com Larry Bell

Global Warming and CO_2
Introduction

Is Global Warming a Man-Made Crisis Caused by Increased CO_2 Emissions?

This presentation shows the results to date of my research into the subject of Global Warming and CO_2, taken from 41 books, 415 articles, plus 203 videos from 74 well-respected and competent scientists and professionals, all listed at the end of the presentation. The results of my investigations are contrary to what is being said in mainstream media and have important implications for future Government actions.

Please consider this quote from Tolstoy's 1894 treatise "The Kingdom of God is Within You" which contains: "The most difficult subjects can be explained to the most slow-witted man if he has not formed any idea of them already, but the simplest thing cannot be made clear to the most intelligent man if he is firmly persuaded that he knows already, without a shadow of a doubt, what is laid before him". I encourage you to proceed with an open mind.

Graeme Phipps Climate Change Presentation

CO_2 Coalition interview with Graeme Phipps Feed | CO_2 Coalition Discussion Group

Global Warming and CO_2
Key Findings

1) Increased CO_2 in the atmosphere is beneficial and not damaging to the world; added CO_2 increases plant growth (CO_2 is essential for plants), especially in desert areas (the world is greening) and significantly improves plant and crop yields. Carbon dioxide has two relevant properties, as a creator of food and oxygen, and as a greenhouse gas

2) Climate change is a very complex system with CO_2 as a greenhouse gas playing a very minor role

3) Adding CO_2 i) is not causing increased extreme and dangerous weather events and are not increasing compared to historic occurrences, ii) has reached a saturation level; doubling prior CO_2 levels is required to make the same minor climate impact, and iii) does not cause runaway temperature issues

4) Over the course of the last 2,000 years, there have been at least 3 verifiable extended periods global temperatures increased without any impact of 'man-made CO_2 emissions' - the Roman Warming (250 BC - 450 ADo; the Medieval Warming (900 - 1300 AD) and the Late 20th Century Warming (1850 - present), along with two extended cooling periods - the dark Ages Cooling (535 - 900 AD) and the Little Ice Age (1280 - 1850),; what's happening is not unusual.

This presentation asks and responds to 11 questions regarding global warming and CO_2 impacts, with a section on each question including factual information supporting the conclusions to each question.

View these videos for an overview: **Climate: The Movie** https://www.climatethemovie.net/),

Water impact on global temperatures https://youtu.be/4swI8_4LfWc;

https://www.msn.com/en-gb/video/news/man-made-climate-change-is-garbage/vi-AA1z94Ta?ocid=msedgntp&pc=HCTS&cvid=cfa592b2dcaf468fb1500aed4da18925&ei=11

Bing Videos; Lord Monckton Net Zero Emissions – The Costliest Error of Physics and Economics in History

Climate Crisis Scam https://youtu.be/aT2SvlAkE5s; Gregory Wrighsttone

Global Warming and CO_2

Quotes from reputable, knowledgeable individuals

1} "Global warming is part of a natural cycle and there's nothing we can actually do to stop these cycles. The world is now facing spending a vast amount of money in tax to try and solve a problem that doesn't actually exist." Dr David Bellamy, Jan 18, 1933 – Dec 11, 2019, was an English academic, botanist, television presenter, author and prominent campaigner in the UK. pic.x.com/WU1ZHimrr8

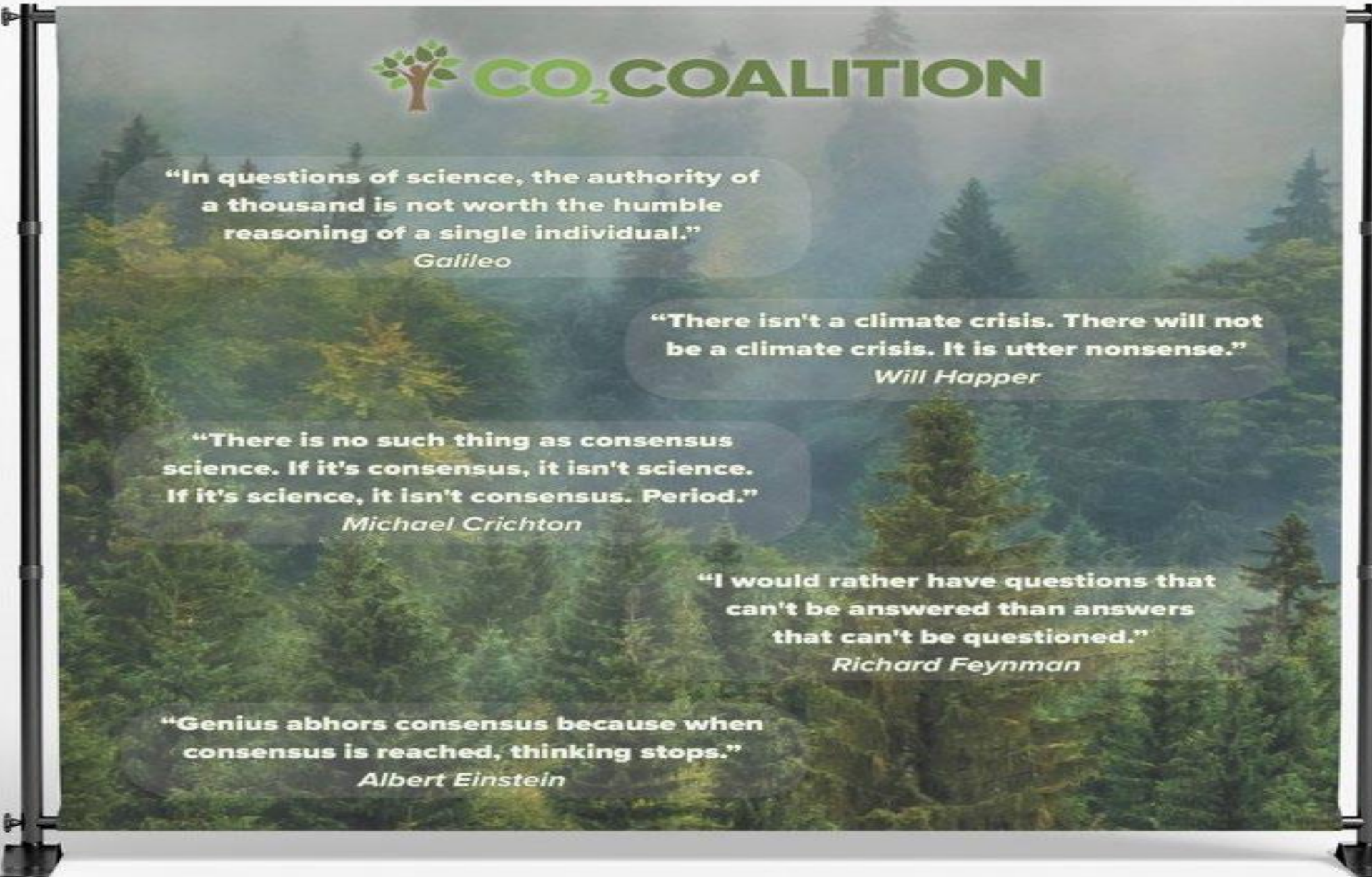
2) "There is no Climate Catastrophe.. We are making ourselves poorer, less secure, dependent on our enemies to achieve nothing except feeling good about how virtuous we are." Konstantin V. Kisin is a British political commentator, author and co-host with Francis Foster of the *Triggernometry* podcast. The Truth About 'Climate Science' | Konstantin Kisin

3) "The real environmental emergency isn't the modest warming that has helped humans thrive. It's land degradation, poisoned water and other forms of pollution that are burying the Global South alive. We've been fighting the wrong environmental war." Dr Vijay Jayaraj is a Science and Research Associate at the CO_2 Coalition with postgraduate degree in Energy Management Robert Gordon University, UK, an MS in Environmental Sciences University of East Anglia, UK, a BS in Engineering Anna University in India Real Environmental Crisis Is Not Climate Change - CO_2 Coalition

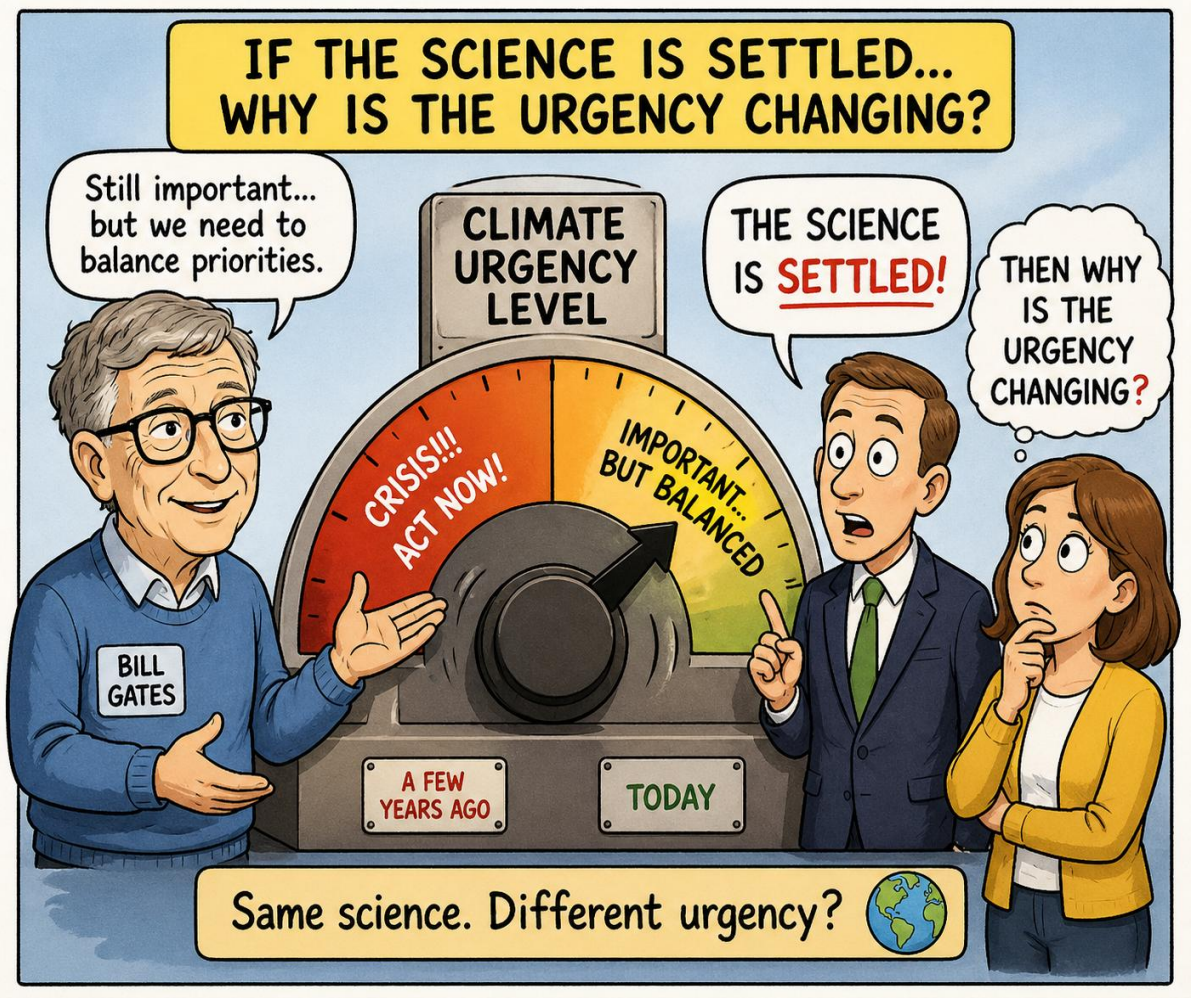
4) "Two prevalent myths are damaging our economy and hurting the less fortunate: 1) that greenhouse gases, chiefly carbon dioxide, are causing dangerous global warming; and 2) that wind and solar can easily replace fossil fuels, nuclear, and hydro in electricity generation. Both are false yet widely accepted. " **Thomas S. Drolet** has had a 57-year international career in many phases of Energy, including Nuclear Power, Fusion Power, Nuclear Fuel Supply, major projects in Coal, Natural Gas, Distributed Generation, Oil and other Renewables (Geothermal, Hydroelectric, Solar and Biomass).

5)' World Climate Declaration: THERE IS NO CLIMATE EMMERGENCY 2,000+ scientists

Global Warming and CO_2



Global Warming and CO_2



[Cooling Doomsday Rhetoric Affords Rational View of Climate | Newsmax.com](#) Larry Bell

Global Warming and CO_2

Eleven questions to consider

1) Is present Global Warming a man-made or a natural phenomenon?
2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?
3) Are higher CO_2 levels and warmer temperatures good or bad?
4) Are CO_2 atmosphere levels dangerously high or historically low?
5) What could have caused changes in CO_2 levels over geologic time?
6) Is climate change mainly caused by mankind's emissions of CO_2?
7) What is the impact of CO_2 on climate warming?
8) Is sea level rise and the rate of rise unusual and a major concern?
9) What about the scientists' man-made Global Warming crisis consensus?
10) If CO_2 is good and the climate always changes, what about other fossil fuel pollutants and alternative energy adoption?
11) What are the negative implications of pursuing a carbon-neutral policy?

Global Warming and CO_2
Starting Scientific Videos Worth Watching

1) It Is Easy Going Green The value of added CO_2

2) **Dr. William Happer** https://youtu.be/pHCCE-sw_Sc https://youtu.be/PblYr-KjOVY

https://wattsupwiththat.com/2023/09/29/professor-william-happer-ipa-lecture-the-crusade-against-carbon-dioxide-september-2023/

(1106) Elimination of CO_2 is a suicide pact – Professor William Happer on climate change misconceptions - YouTube

3) **Gregory Wrightstone** https://youtu.be/aT2SvlAkE5s; The Climate Crisis Scam

Endangerment Finding Endangers Our Fuels, Forests and Freedom Slides from presentation by Gregory Wrightstone Aug 2025 SPN For Distribution 2025 08 24 (2).pdf

4) **NASA Engineer** (1132) NASA Engineer Tom Moser Reveals the Truth About Climate Science - YouTube

5) Dr. John Christy Distinguished Professor of Atmospheric Science

11) (5124) Data shows there's no climate catastrophe looming – climatologist Dr J Christy debunks the narrative – YouTube

John Christy: The Climate Real Deal | Science Matters (rclutz.com) There is **no climate catastrophe**

6) Dr. R Lindzen 170) Climate Science: What Does it Say? | Dr. Richard Lindzen | EP 320 – YouTube

Rejects 'Climate Change' as predicated on **absurd scientific narrative**

- (2046) This Well Known Effect Breaks the Climate Narrative - YouTube
- (1106) Dr Richard Lindzen exposes climate change as a politicised power play motivated by malice and profit - YouTube

7) **Dr. Patrick Moore** A Dearth of Carbon? – YouTube PhD in Environment Co-founder Greenpeace **CO_2** the fuel of plants and life

8) **Dr. Steven Koonin** https://www.youtube.com/watch?v=YXvBdwmxT2c

- There s no apocalypse climate crisis now or in the future

9) **The Heartland Institute** https://www.delranchoproductions.com/climate password: ppm2023

10) **Water impact on global temperatures** https://youtu.be/4swI8_4LfWc;

11) **Joe Rogan interview with Dr. William Happer and Dr Richard Lindzen** https://www.youtube.com/watch?v=Zt32chvO_iY

12) **Climate The Movie** https://www.youtube.com/watch?v=A24fWmNA6IM

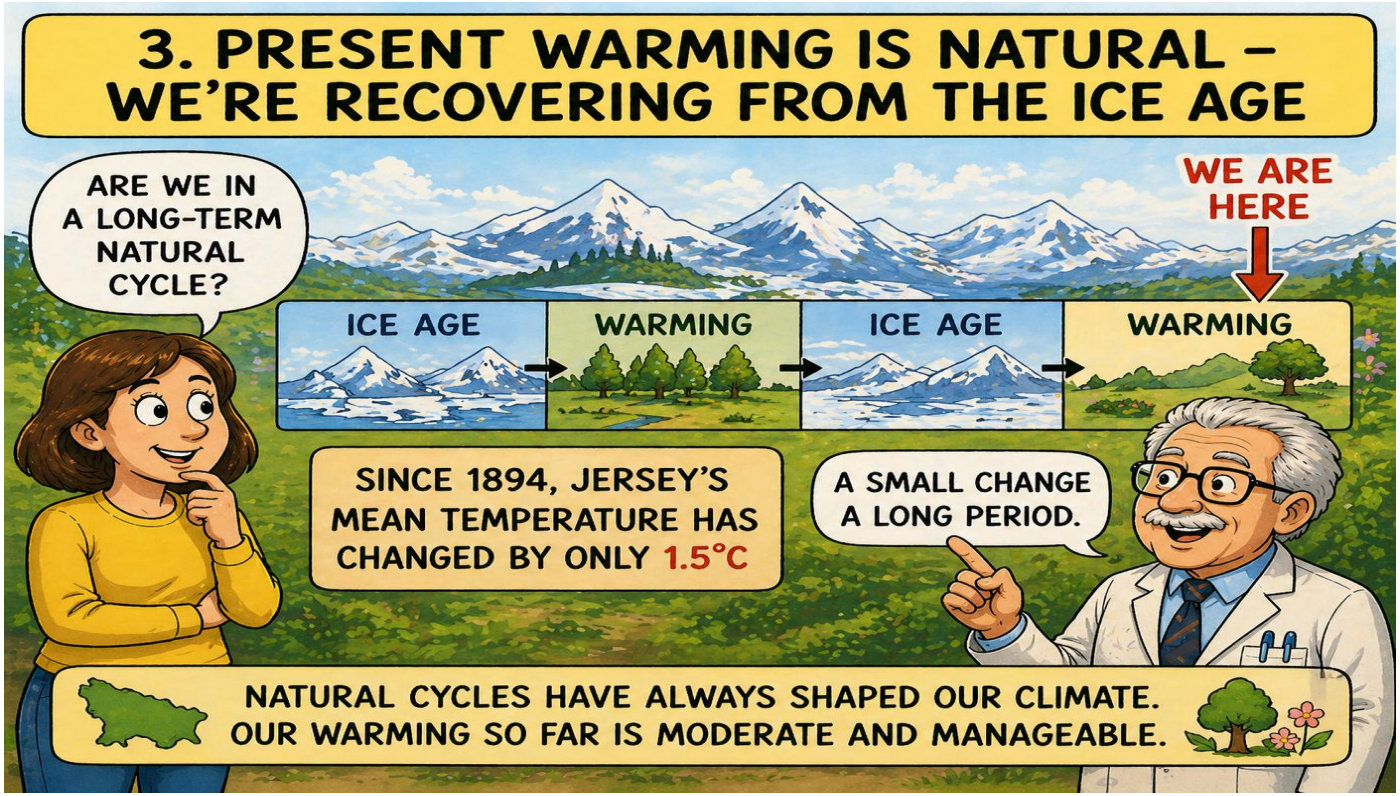
13) **How the Club of Rome and the WEF invented Climate Change in order to attack humanity** pic.x.com/M27VcBeoEB

Global Warming and CO_2

1 of 11 Questions

Question 1

Is present Global Warming a man-made or a natural phenomenon?

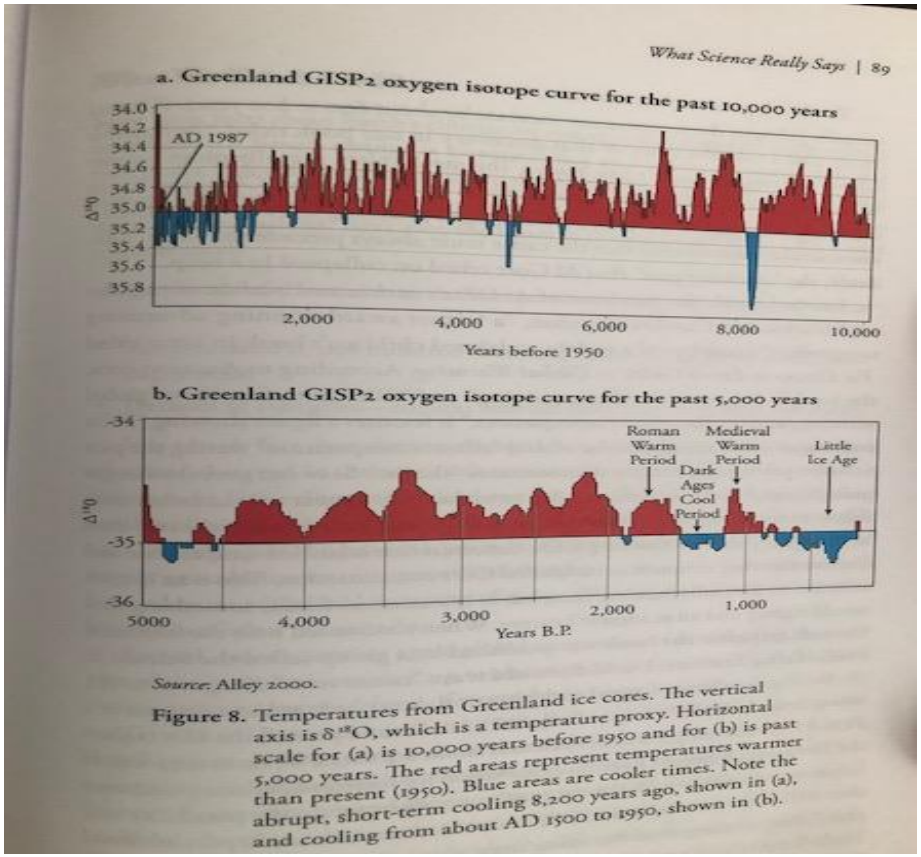


1) Is present Global Warming a man-made or a natural phenomenon?

Graphs showing Greenland temperature changes over last 10,000 years

- Ice cores are effective methods of recreating records of temperature and atmospheric gases. Snow falls on an annual cycle. Over a few decades, the layers of snow compact and become ice. By drilling through that ice, it is possible to reconstruct records of temperature and atmospheric gases for periods of hundreds of thousands of years.
- Greenland ice core data over the last 10,000 years show warmer temperatures than today.
- Recent temperature increases are simply a part of the warming that has been occurring since the last ice age.
- Gas bubbles trapped in ancient foraminifera fossils provide similar records of temperature and CO_2 levels over hundreds of millions of years.

Greenland ice core temperature changes



Reference book: Hot Talk, Cold Science page 89

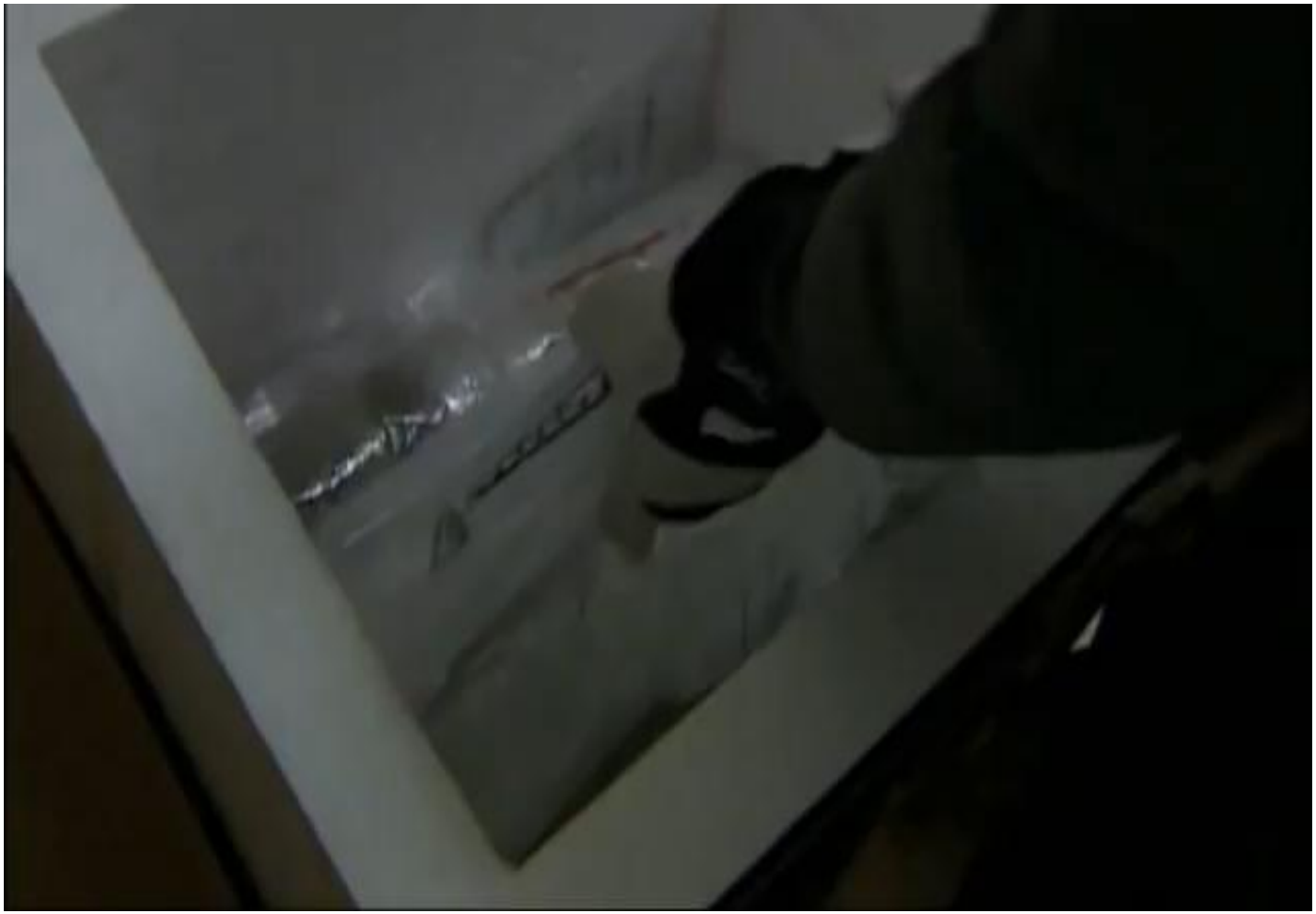
Source: Alley 2000

Reference book: Climate All is Well. All Will be Well page 19

1) Is present Global Warming a man-made or a natural phenomenon?

1) Results from Greenland ice core study

Climate Greenland Ice Research You Tube Video - click to view



1) Is present Global Warming a man-made or a natural phenomenon?

Greenland ice core graph of temperature changes over last 150,000 years

- Temperatures varied 10 degrees Celsius over the last 150,000 years and dropped recently
- 0.8 degrees Celsius warming over the last 100 years is neither unique nor alarming.
- Present temperature changes are not different from historic temperature changes.

Between 2007 and 2012, scientists conducted extensive ice drilling in Greenland, in order to unravel Earth's climate history from the last 125,000 years. "Back then, Greenland was around 8°C warmer than today. Sea levels were 4-8m higher." "Yet the planet didn't collapse and Greenland didn't melt. There were no tipping points and no mass extinctions." "The planet was far warmer and life flourished."

Greenland Ice Core Temperature

Changes Over Last 150,000 Years

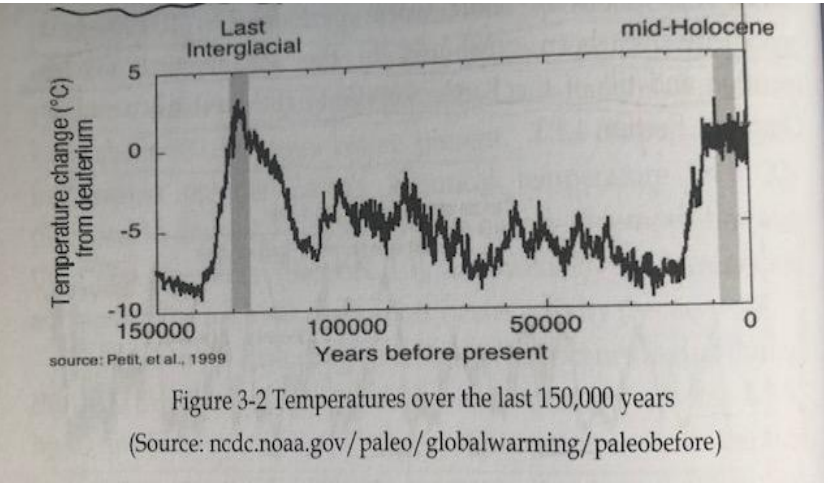
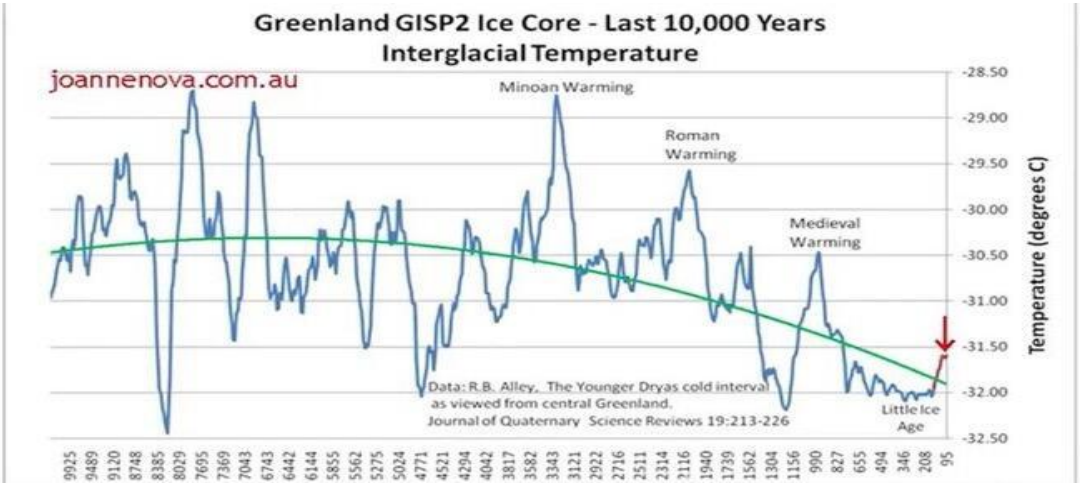


Figure 3-2 Temperatures over the last 150,000 years
(Source: ncdc.noaa.gov/paleo/globalwarming/paleobefore)



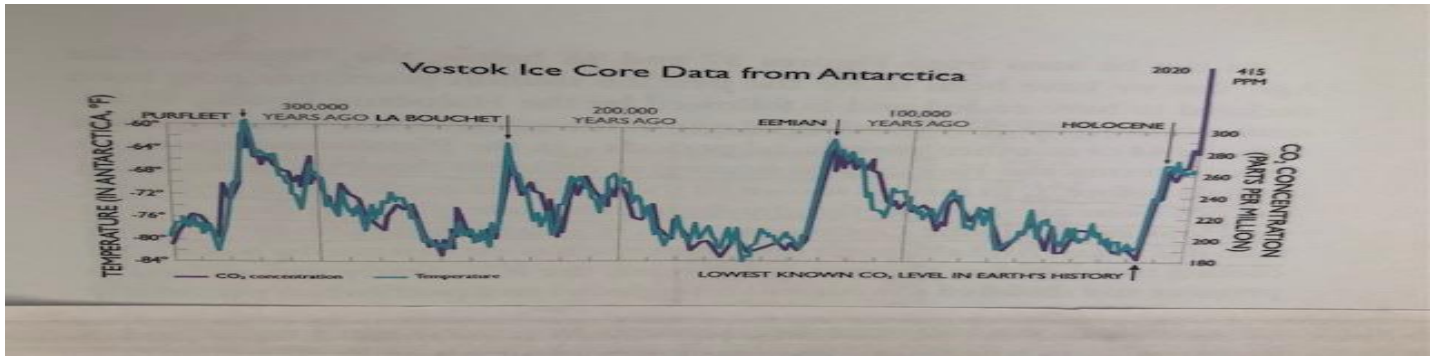
gov/paleo/globalwarming/paleobefore Ice Age 1978 Leonard Nimoy – YouTube

https://x.com/i/status/2016813996318281788 Greenland ice core study

1) Is present Global Warming a man-made or a natural phenomenon?
Antarctic ice core graphs of temperature and CO_2 changes last 350,000 years

- Over the last 350,000 years, temperatures were up to 4 °C higher than today, with a temperature range of over 20C.
- Recently, CO_2 levels have increased significantly, but temperatures have not.
- Antarctic ice core data show that **CO_2 levels** (purple line) tended to **change 650 to 6000 years after changes in temperature** (blue line) **and therefore cannot be the cause of the temperature change**.
- The eccentricity of the Earth's orbit around the Sun appears to govern the cycles of ice ages (90/120,000 years) and interglacial periods (10/14,000 years).

Antarctic ice core graphs of temperature and CO_2 changes - last 350,000 years



There is nothing unprecedented or even significant about modern warming magnitudes or rates. A new statistical probability analysis (Hatton, 2026) using Vostok temperature data indicates the reported 1.1°C global warming over the last century (since the 1920s) is "not even unusual" within the context of the last 20,000 years, as "16% of the centuries since the end of the last Ice Age show a rise at least as big [1.1°C] as the current century".

Reference book: Fake Invisible Catastrophes and Threats of Doom page 73

Source: Vostok Ice Core Data from Antarctica New Study: Ice Core Data Shows Modern Warming Is Statistically ...

Comparing the current interglacial with the last one illustrating that Climate hysteria is no substitute for evidence.
Climate_hysteria_and_Climate_reality__a_comparison_of_interglacials.pdf

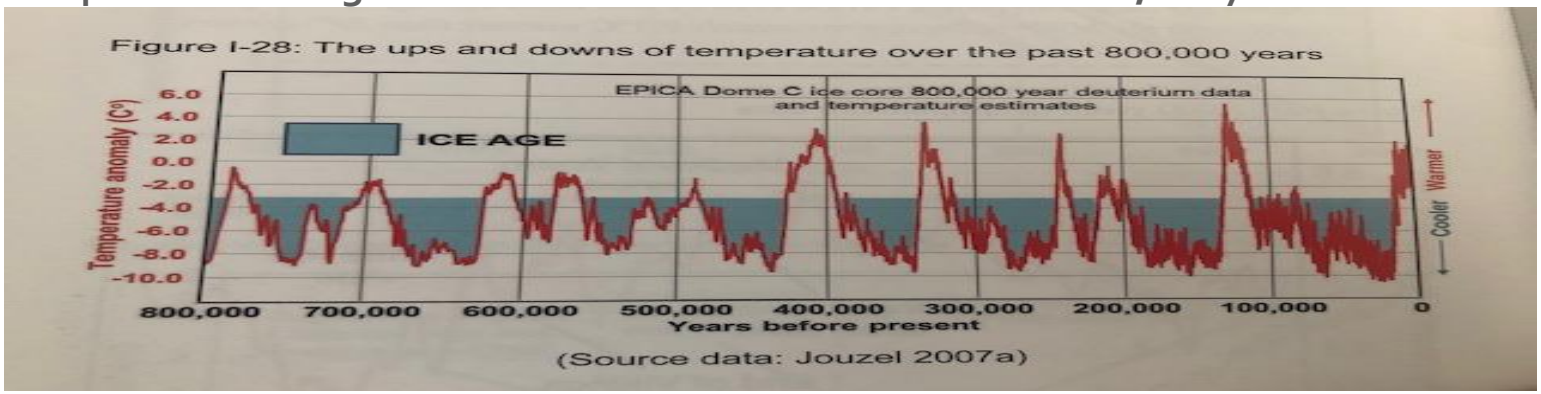
https://www.facebook.com/share/19rXoXP3Wa/?

1) Is present Global Warming a man-made or a natural phenomenon?

1) Repeating periods of glaciation over last 800,000 years

- Ice-core history data over the last 800,000 years shows the Earth's climate experienced a series of glacial periods that lasted about 100,000 years, interspersed by shorter interglacial periods that lasted 10,000 to 15,000 years.
- Over the last 800,000 years, the temperature has fluctuated between about 4 degrees C hotter than today and just over 10 degrees C colder. The 0.8 °C rise in the last 100 years is not unusual. A greater than 1 °C rise occurred in 173 centuries
- Ice Ages appear driven by variations in the Earth's orbit and rotation axis with changes in the mean incident of the Sun's radiation. NASA states that the Earth's orbit (Milankovitch cycles) is the likely cause of long-term changes to Earth's climate. These cycles operate over timescales of tens of thousands or hundreds of thousands of years.
- The 100,000-year periodicity has been attributed to the Milankovitch Cycles (position and tilt of the Earth relative to the Sun). We are now about 11,000 years into the current interglaciation period (10,000 to 14,000 years)

Temperature Changes and Glaciation Periods over the last 800,000 years



Reference book Inconvenient Facts page 38

Source: Adapted from NASA by Robert Simmon, based on data from Jouzel et al , 2007

Reference: Climate Hysteria and Climate reality: a clash of cultures Les Hatton* Climatology and social forces Cybershed 16-Dec-2023

New Evidence We Are Entering An Ice Age Termination Event Dr. Ben Miles

Milankovitch Cycles https://www.youtube.com/embed/1Mj16tiUyI4 https://www.youtube.com/embed/1Mj16tiUyI4

1) Is present Global Warming a man-made or a natural phenomenon?

Geologic record of changing polar ice caps over last 60 million years

- Polar ice caps came and went over the last 30 million years.
- The Earth is now in one of the coldest periods in its history.
- Higher temperatures are not unusual; changing temperatures is a natural phenomenon.

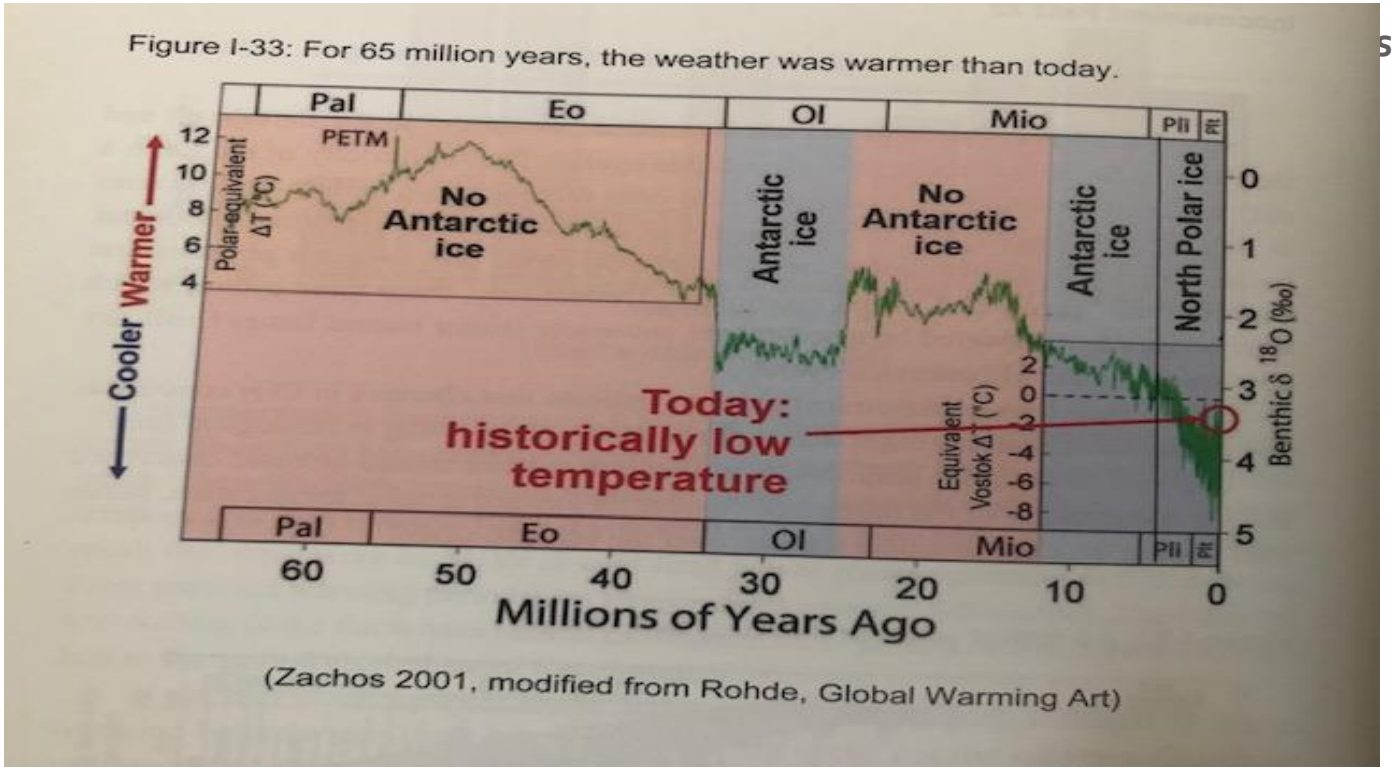


Figure I-33: For 65 million years, the weather was warmer than today.

(Zachos 2001, modified from Rohde, Global Warming Art)

Reference book Inconvenient Facts page 44

Source: Zachos 2001, modified from Rohde, Global Warming Art

[Why the Glaciers Retreated - American Thinker]

1) Is present Global Warming a man-made or a natural phenomenon?
The Earth's temperature changes since last 485 Years is now historically low

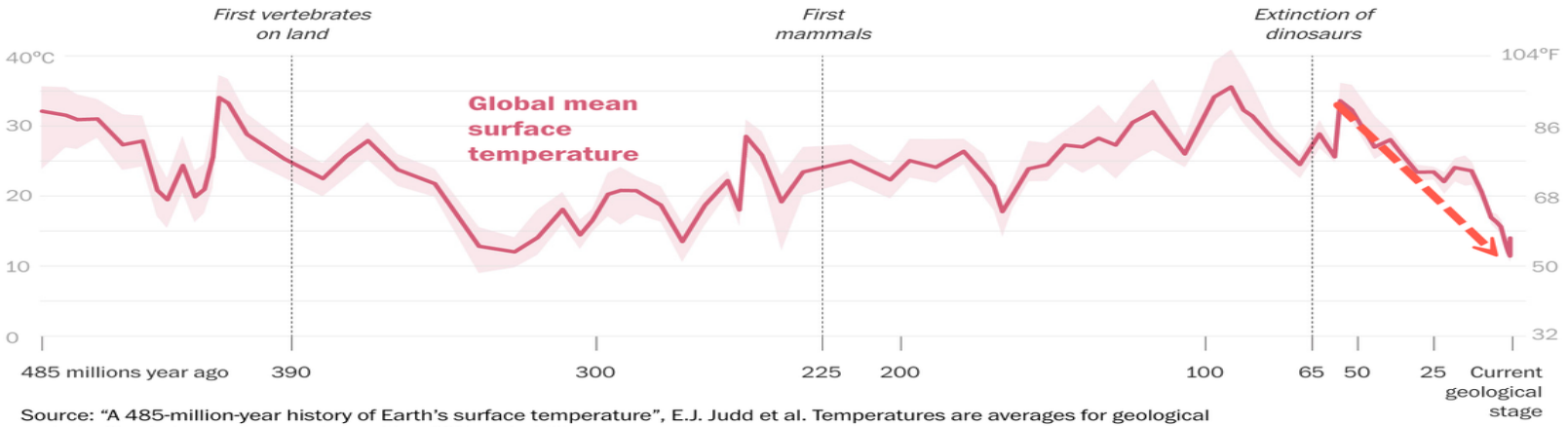
The Washington Post
Democracy Dies in Darkness

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Scientists have captured Earth's climate over the last 485 million years. Here's the surprising place we stand now.

An effort to understand Earth's past climates uncovered a history of wild temperature shifts and offered a warning on the consequences of human-caused warming.

10 min



Source: "A 485-million-year history of Earth's surface temperature", E.J. Judd et al. Temperatures are averages for geological periods. Shaded area shows values with a 68% probability.

By Sarah Kaplan and Simon Ducroquet
September 19, 2024 at 2:01 p.m. EDT

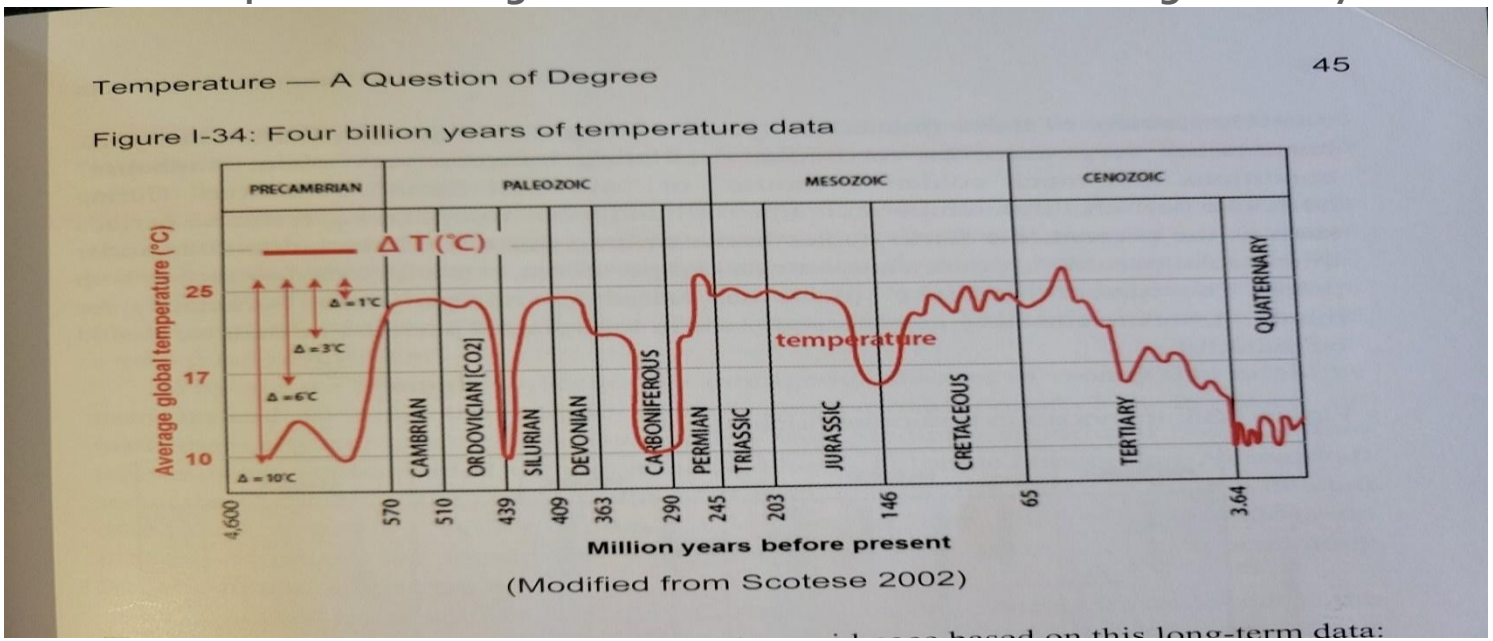
https://energycentral.com/c/pip/co2-innocent-proof-recent-science-paper
https://www.zerohedge.com/weather/msm-journos-inadvertently-reveal-shocking-truth-about-global-warming

1) Is present Global Warming a man-made or a natural phenomenon?

The Earth's temperature changed significantly over last 600 million years

- For over 600 million years of geologic time, temperatures changed dramatically while plants and animals evolved and thrived (historic records of living species began in the Cambrian time).
- Over most of recorded geologic history, temperatures were much higher than at the present time.
- Equator temperatures changed little, with the bulk of temperature changes occurring at the poles.
- Changing temperature is a natural phenomenon that has occurred throughout the Earth's history

Temperature Changes Over 600 Millions Years of Geologic History



Reference book: Inconvenient Facts page 45 Source: Modified from Scotese 2002

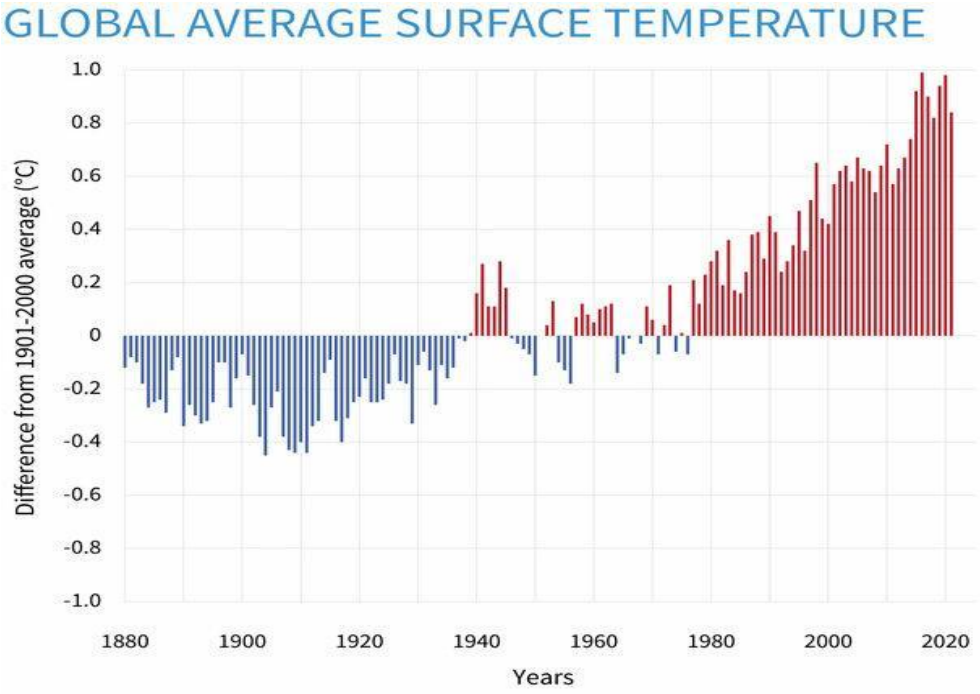
Source: www.climate.gov/news-features/climate-qa/whats-hottest-earths-ever-bean

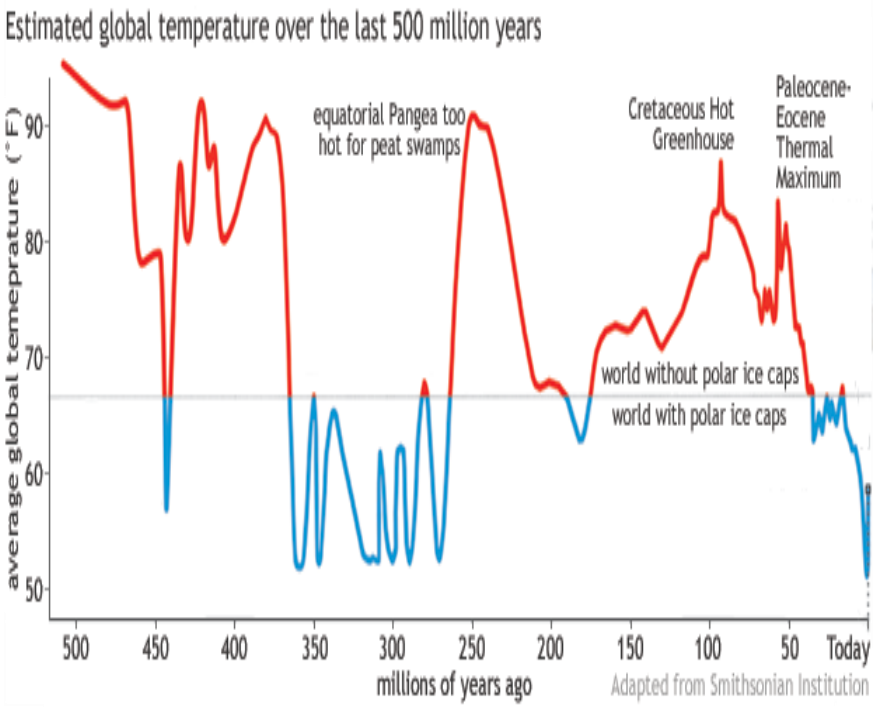
Paper: An Assessment of the Conventional Global Warming Narrative. Dr. Richard Lindzen Published by the Global Warming Policy Foundation Sept. 22, 2022

1) Is present Global Warming a man-made or a natural phenomenon?

Earth's temperature changed much more over last 500 million years than last 100 years

- . Talk of global warming in the media might make people believe that the Earth is rapidly plunging into a hot cauldron of doom, but the truth is that the Earth's temperature has risen less than 1°C in the past 100 years.
- The Earth has been much hotter in the past when man-made CO2 was not a factor in any previous heating events.

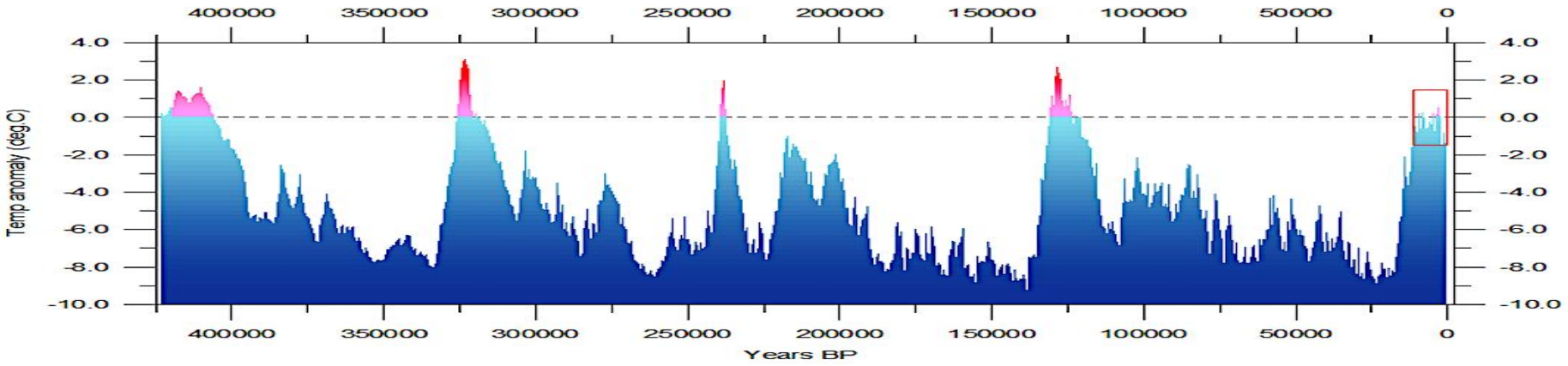




Reference Tyler Durden

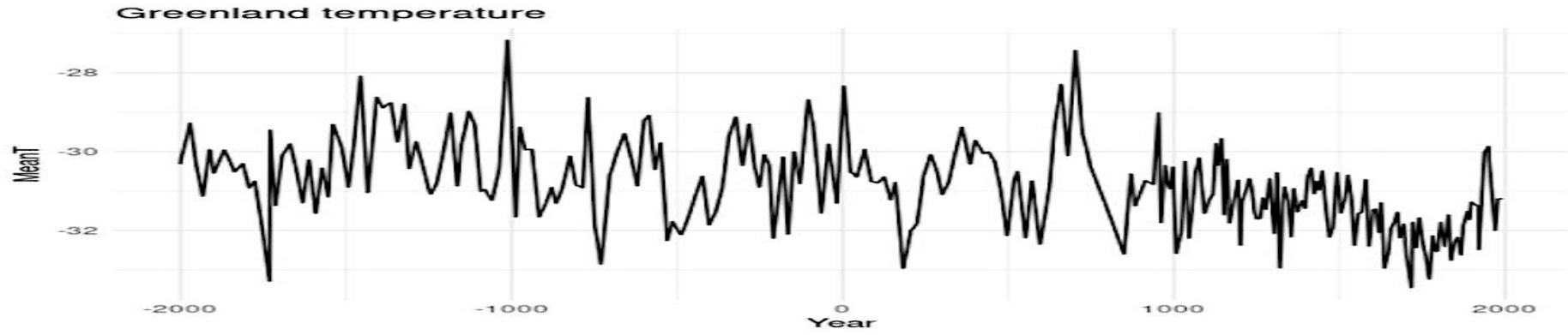
1) Is present Global Warming a man-made or a natural phenomenon? Statistics Norway Recent Report Findings

Figure B2. Reconstructed temperatures over the last 420,000 years



Reconstructed global temperature based on the Vostok ice core from the Antarctica. The horizontal line indicates the modern temperature level. The red square to the right indicates the time interval shown in greater detail in https://www.climate4you.com/

Figure B4. Reconstructed temperatures from Greenland, 2000 BC to 2000 AD



Reference https://www.powerlineblog.com/archives/2023/10/another-nail-in-the-global-warming-coffin.php

1) Is present Global Warming a man-made or a natural phenomenon?

1) Statistics Norway recent report findings

- The government agency, Statistics Norway, recently released a report that concludes: *the effect of man-made CO2 emissions does not appear to be sufficiently strong to cause systematic changes in the pattern of the temperature fluctuations. our analysis indicates that with the current level of knowledge, it seems impossible to determine how much of the temperature increase is due to emissions of CO2*

- The report looks at the last 400,000+ years of Earth's climate history: *The preceding four interglacial periods are seen at about 125,000, 280,000, 325,000 and 415,000 years before now, with much longer glacial periods in between. All four previous interglacial periods are seen to be warmer than the present. The typical length of a glacial period is about 100,000 years, while an interglacial period typically lasts for about 10-15,000 years. The present interglacial period has now lasted about 11,600 years.* Similarly, on the time scale of recent millennia, current temperatures are nothing unusual: *Kobashi et al. (2011) have reconstructed Greenland surface snow temperature variability with a new method that utilizes argon and nitrogen isotopic ratios from occluded air bubbles. These data indicate that warmer temperatures were the norm in the earlier part of the past 4,000 years, including century-long intervals nearly 1°C warmer than the decade (2001-2010).*

Reference https://www.powerlineblog.com/archives/2023/10/another-nail-in-the-global-warming-coffin.php

1) Is present Global Warming a man-made or a natural phenomenon?

1) Statistics Norway Recent Report Findings

- *Therefore, it appears that the current decadal mean temperature in Greenland has not exceeded the envelope of natural variability over the past 4,000 years. During the past 10,000 years, temperatures over long periods were higher than they are today. The warmest phase occurred 4,000 to 8,000 years ago and is known as the Holocene Climate Optimum.*

- It criticizes the models on which climate alarmism is based; there is nothing alarming in the observational record. *In the global climate models (GCMs) most of the warming that has taken place since 1950 is attributed to human activity. Historically, however, there have been large climatic variations. Temperature reconstructions indicate that there is a 'warming' trend that seems to have been going on for as long as approximately 400 years. Prior to the last 250 years or so, such a trend could only be due to natural causes. The length of the observed time series is consequently of crucial importance for empirically analyzing the pattern of temperature fluctuations and for having any hope of distinguishing natural variations in temperatures from man-made ones.*

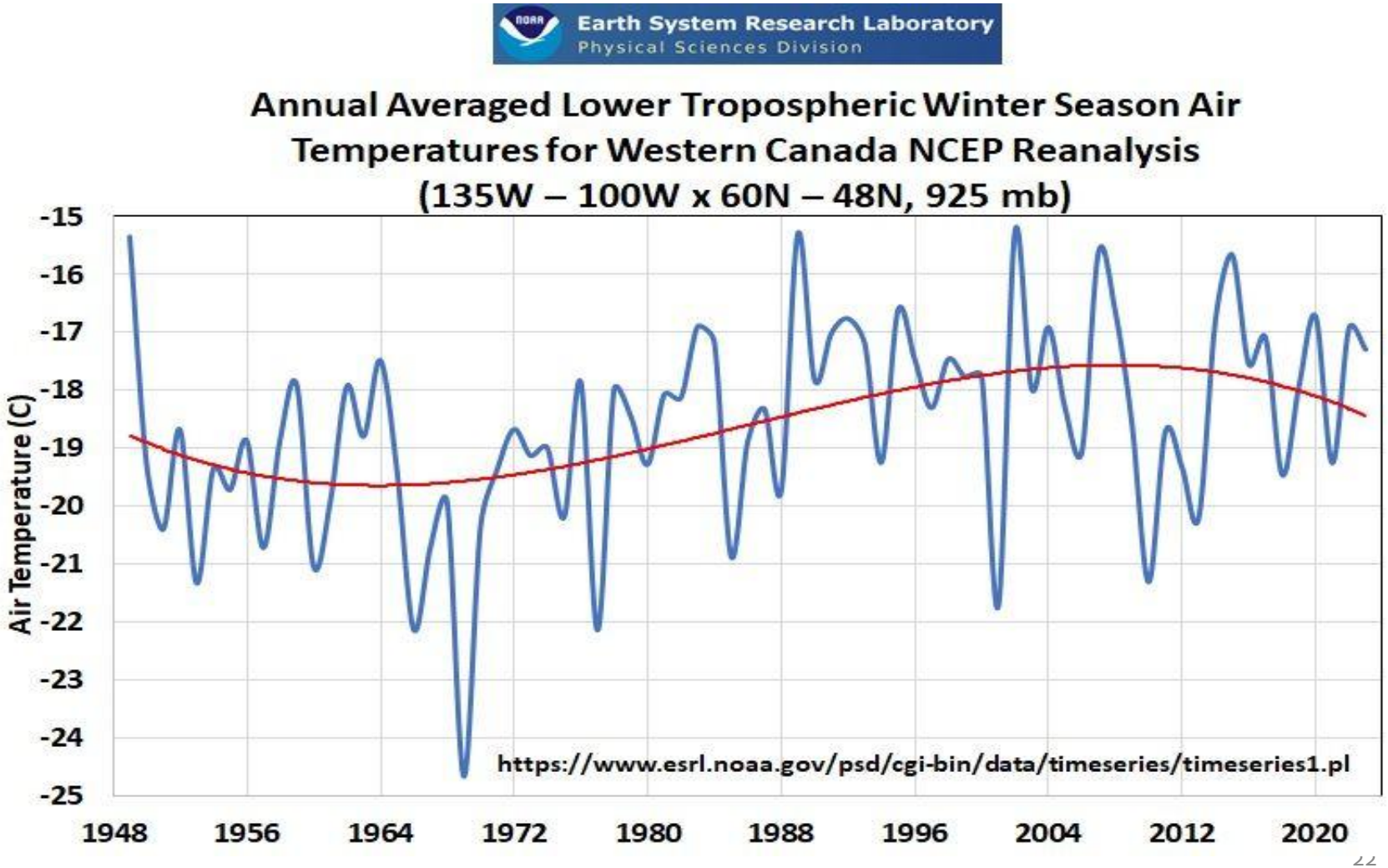
- This Norwegian report is important because climate alarmism can survive only if it is deemed a "consensus," so that people who point out inconsistent facts can be censored. Once the reported consensus is punctured, it rapidly becomes clear that the Climate Emperor is unclothed. Although this report does not represent the Norwegian Government's official position, it is an important finding.

Reference https://www.powerlineblog.com/archives/2023/10/another-nail-in-the-global-warming-coffin.php

1) Is present Global Warming a man-made or a natural phenomenon?

Western Canadian Temperatures Show Cyclic Variations Unrelated to CO_2 Increases

Radiosonode (aka weather balloon) data show that the lower tropospheric air temperature over Western Canada continues to exhibit a cyclical trend.



1) Is present Global Warming a man-made or a natural phenomenon?

365 years of temperature data from central England, the world's longest-running climate record, show no trend

Despite a six-fold rise in population and a surge in CO2, January temperatures have barely shifted since 1600. Likewise for July, the hottest month of the year, temperatures are virtually unchanged.

Even during the coal-fired Industrial Revolution there was no sudden spike. The warmest winters on record occurred in the 1700s, the 1800s, and the early 1900s, long before modern emissions.

Any warming appears slow and natural, with the slight modern uptick likely linked to two factors:

1) the urban heat island effect, and
2) 2) Earth's gradual recovery from the Little Ice Age.

If carbon dioxide truly controlled the climate, the CET record would shoot upward on the right. It does not.

https://x.com/i/status/2035370856583409820

1) Is present Global Warming a man-made or a natural phenomenon?

Broadly stable atmospheric CO_2 and CH_4 levels over the past 3 million years Nature Magazine March 18, 2026

Ancient ice cores show that levels of carbon dioxide remained stable as the world plunged into an ice age around 2.7 million years ago.

New research from ancient Antarctic ice cores is challenging long-held assumptions about the role of carbon dioxide in Earth's climate history. Evidence suggests that CO_2 and methane levels remained remarkably stable over millions of years—even as the planet experienced dramatic temperature shifts. These findings raise fresh questions about the extent to which greenhouse gases alone can explain past and present climate change.

Levels of CO_2 at around 250 parts per million (ppm) were said to be lower than often assumed with just a 20 ppm movement recorded for the following nearly three million-year period. In addition, no changes in methane levels were seen in the entire period. Massive decreases in temperature with occasional interglacial rises appear to have occurred without troubling 'greenhouse' gas levels, and this revelation has caused near panic in activist circles.

The assumed level three million years ago of CO_2 was around 400 ppm, a convenient mark that has been used to explain the subsequent ice age and a drop to 250 ppm. Due to the recently published paper, this explanation has become more problematic and natural climate variation is correctly noted to have occurred with the temperature changes.

1) Is present Global Warming a man-made or a natural phenomenon?

Broadly stable atmospheric CO_2 and CH_4 levels over the past 3 million years Nature Magazine March 18, 2026

Ancient ice cores show that levels of carbon dioxide remained stable as the world plunged into an ice age around 2.7 million years ago.

: *'Broadly stable atmospheric CO_2 and CH_4 levels over the past three million years.'* A related paper examining ocean heat content derived from the ice core record was also published. The latest *Nature*-published research gives a snapshot from ancient Antarctica's blue' ice drilled in the Allan Hills area. It looks back further in time past the usual 800,000 ice core records.

The key finding is that over the last three million years, when sea levels fell and ice periods intensified, the level of the main 'greenhouse' gases remained remarkably stable. The work has pushed the direct gas measurements back into the late Pliocene era.

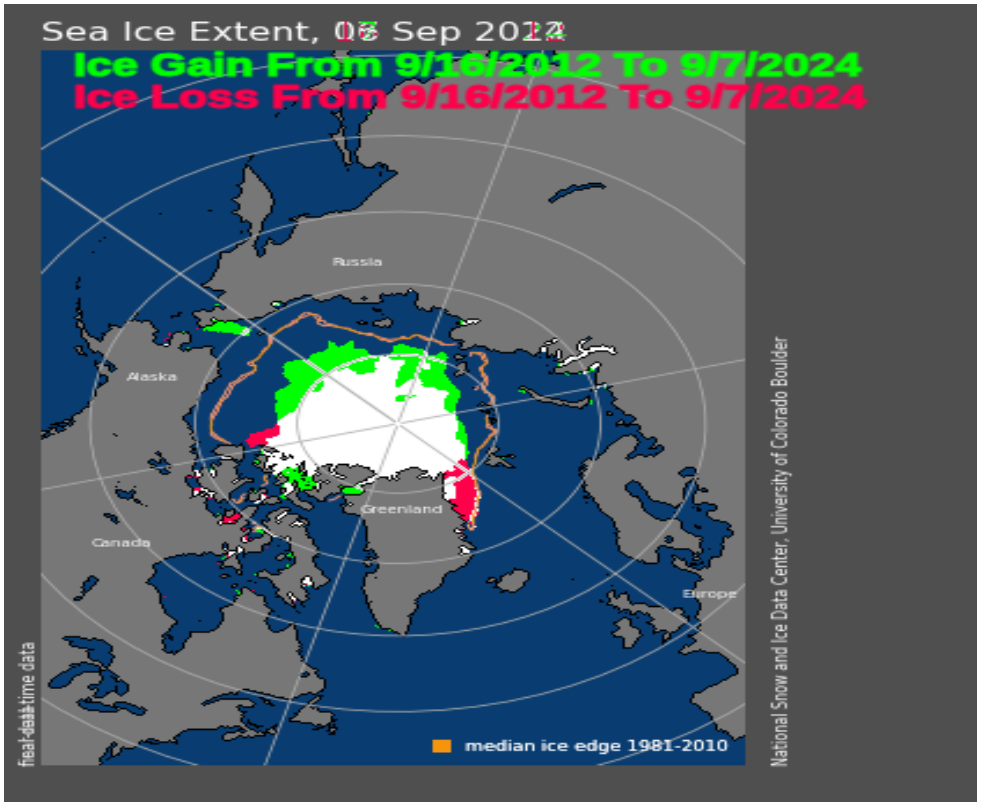
Over the last three million years, moving into the Pleistocene, global temperatures showed a long-term cooling trend of several degrees Celsius, interrupted by increasingly large interglacial oscillations. Interglacial temperature swings, as in the current Holocene, often see temperatures rise by 5°C and more.

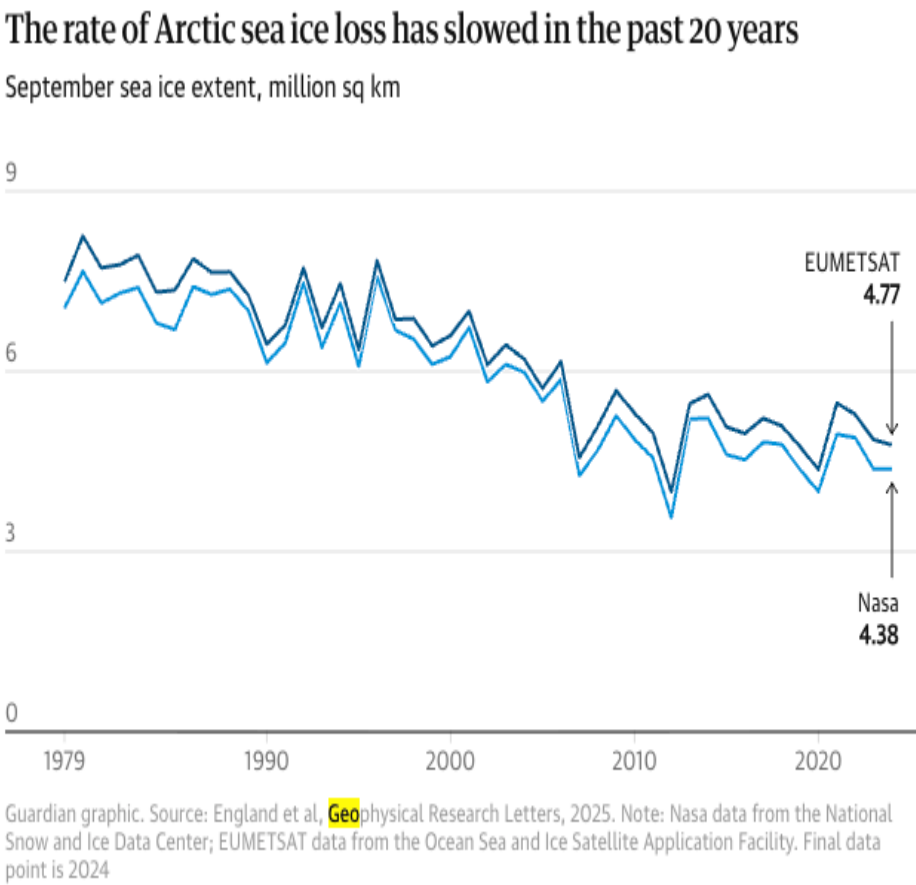
1) Is present Global Warming a man-made or a natural phenomenon?

Arctic Ice has been recently expanding

NOAA Sea Ice Extent data of the Arctic from Sept. 16, 2012, and Sept. 7, 2024, found:

"This year's minimum Arctic sea ice extent was 26% larger than 2012."





2012 NOAA Sea Ice Extent data Antarctic Sea Ice: Winds Mat

Late-season ice retention has improved drastically in the past 13 years

https://x.com/i/status/2021192423284617288

1) Is present Global Warming a man-made or a natural phenomenon?

Greenland, Arctic Undermine 'Unusual Climate Conditions' Narrative

- Greenland's history and the broader Arctic's recent conditions belie claims the climate of the Arctic region, including Greenland, is changing in a fashion never seen before.
- Recent research published in the journal *Nature Geoscience* found Greenland's Prudhoe Dome summit was exposed to sunlight and the elements approximately 7,000 years ago. Proxy data suggests temperatures were between 3°C and 5°C higher than they are today, well beyond the 1.5°C to 2.0°C temperature rise that climate alarmists have warned would represent a tipping point producing cascading catastrophic changes.
- Regardless of whether the U.N. Intergovernmental Panel on Climate Change is right and the Earth is warmer today than at any time in the past 1,500 to 2,000 years, it was significantly warmer during at least one period of the present interglacial period, all without human help (CO_2 levels were much lower), and neither human populations nor civilization went into a death spiral. Indeed, crop agriculture had only recently begun and started expanding just before and during this period, and populations grew.
- Over the last 20 years, the decline of Arctic sea ice has slowed down substantially … even as global temperatures hit record highs.
- Not only can human CO_2 emissions not be causally linked to declining sea ice (which, is not, in fact, declining) it's not even clear that human activities influence sea ice levels at all. There is no correlation between changes in sea ice levels and human emissions or temperature changes, much less a causal connection.

Minimal Arctic Sea Ice Loss in the Last 20 Years, Consistent With Internal Climate Variability 16 August 2025

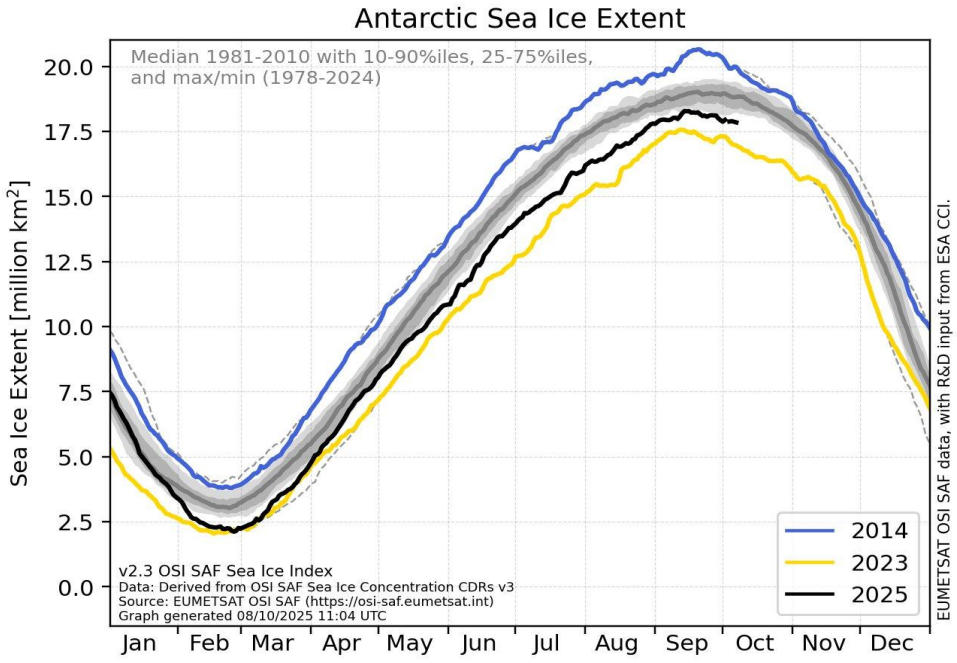
Nature Geoscience; Irrational Fear **Greenland's Ancient Melt: The Bombshell Study That Buries Climate Alarmism**

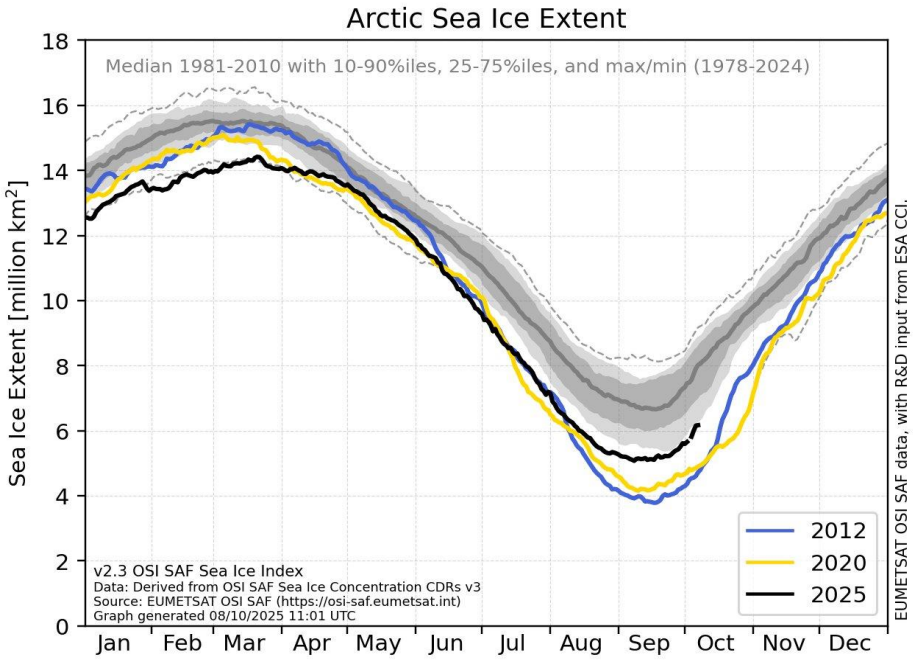
https://x.com/i/status/2022777874227564813 7,000 years ago, summer temperatures were 3 to 5C warmer than today.

1) Is present Global Warming a man-made or a natural phenomenon?

Polar Sea ice extent at both poles is now tracking close to their 1981–2010 averages

Antarctic ice has rebounded sharply from last year's low, while Arctic coverage is now within normal range,





Back in 2009, the newly appointed director of the NSIDC, Mark Cerise, warned that Arctic sea ice was in a "death spiral". He predicted the Arctic could be ice-free by the summer of 2030, likely even earlier. Nearly two decades later, the data tell a different story.

According to the NSIDC's own records, September sea ice has shown no downward trend since 2007.That's 18 years of stability.

Despite rising CO2 levels and every claimed feedback mechanism, the ice is not budging.

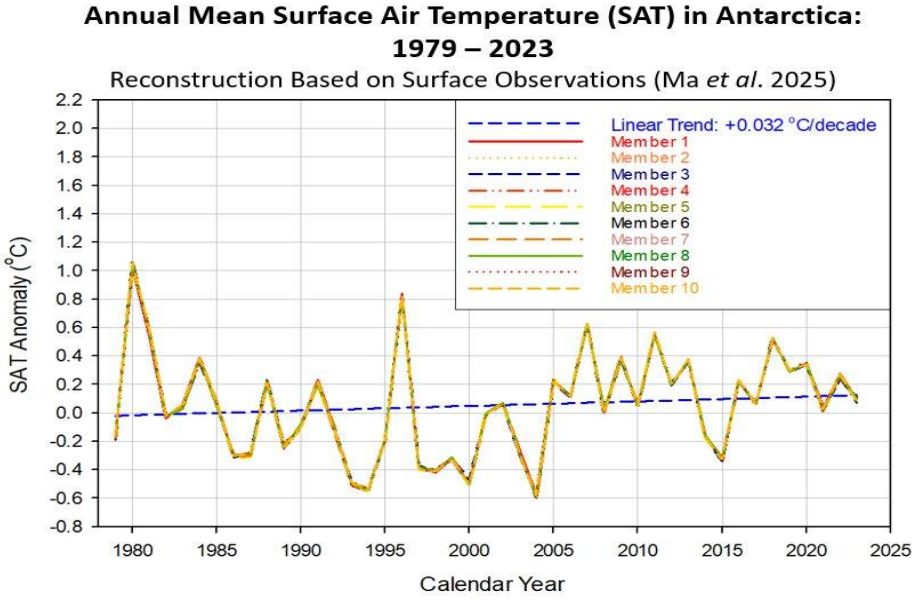
As climate researcher Javier Vinós put it, "clearly the models on which these predictions are based do not accurately reflect the actual climate." The Arctic death spiral never happened..

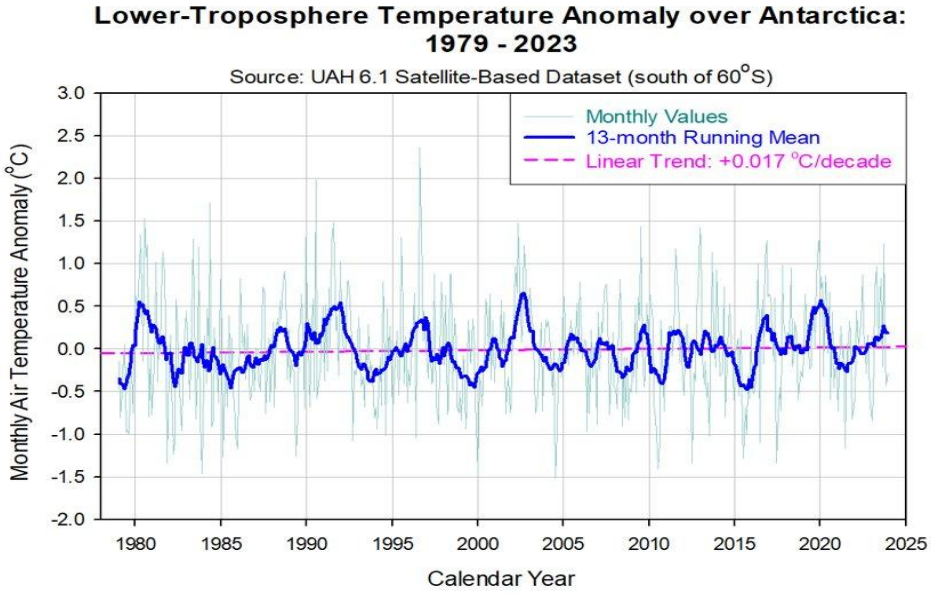
1) Is present Global Warming a man-made or a natural phenomenon?

Antarctica has experienced no statistically significant warming over the modern satellite era. *Ned Nikolov PhD*

Two independent systems, reconstructed surface observations and satellite measurements, conclude that the Antarctic continent has undergone *no* statistically meaningful warming since 1979, despite atmospheric CO2 rising by almost 100 ppm over that period.

No Significant Warming in Antarctica Since 1979!





References:

Ma, Z., Huang, J., Zhang, X. et al. (2025) Deep learning-based reconstruction of monthly Antarctic surface air temperatures from 1979 to 2023. *Sci Data* 12, 847. https://doi.org/10.1038/s41597-025-05175-6

UAH 6.1 Global Temperature Dataset: https://www.nsstc.uah.edu/data/msu/v6.1/tlt/uahncdc_lt_6.1.txt

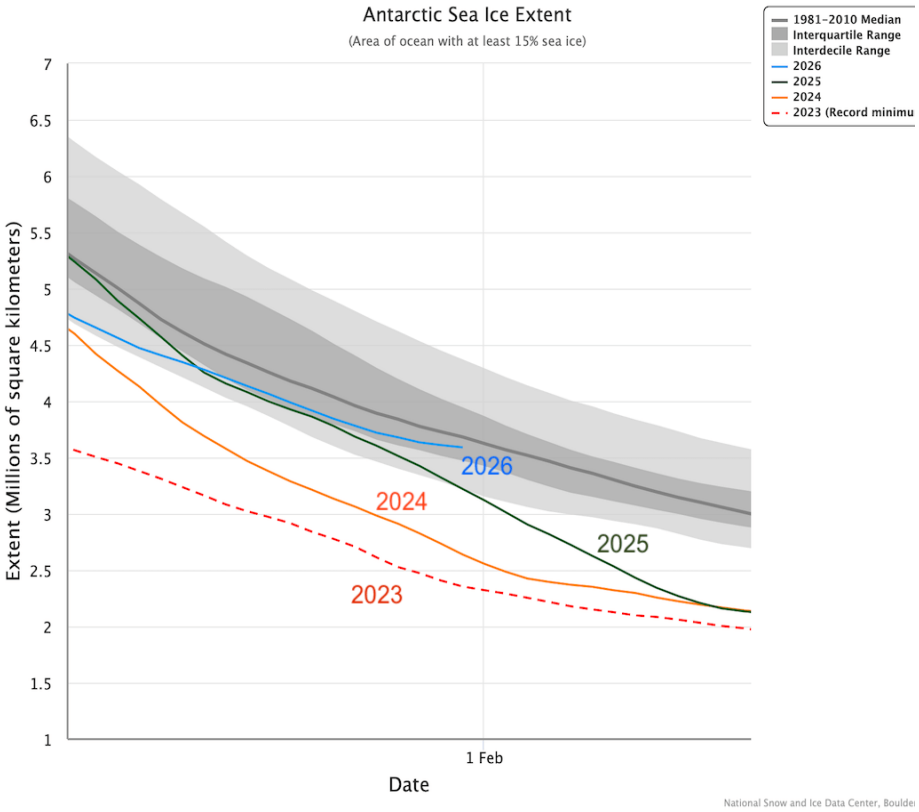
© Ned Nikolov Ph.D., Dec. 2025

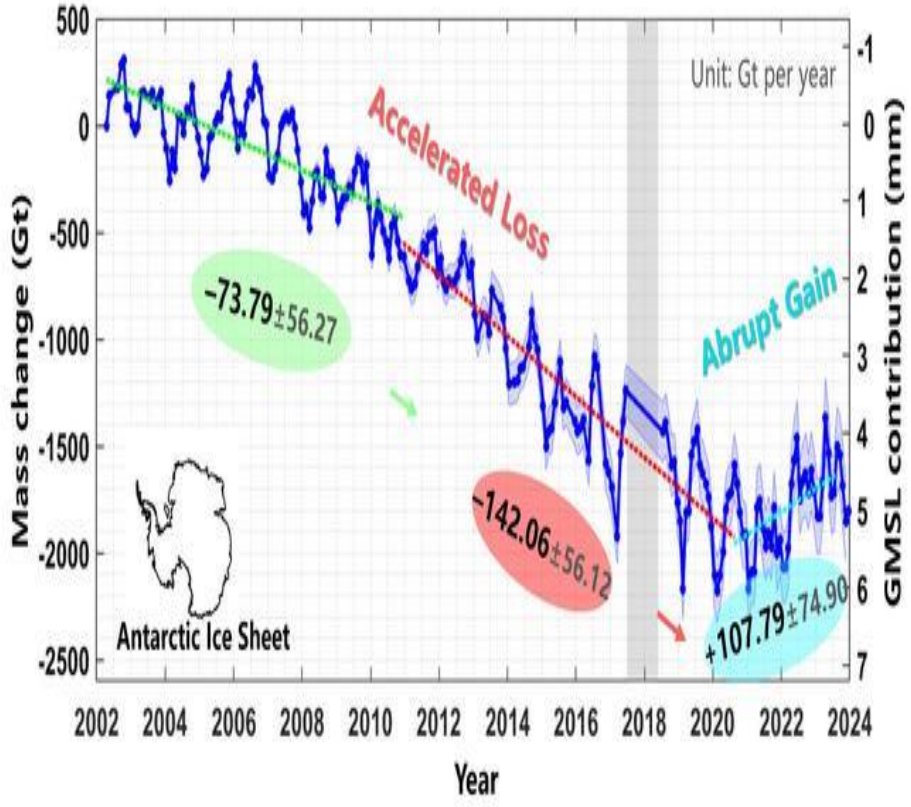
Two independent temperature records from 1979 to 2023 show no meaningful warming across Antarctica, despite CO2 rising by nearly 100 ppm. pic.x.com/jMh6xYLbMK

1) Is present Global Warming a man-made or a natural phenomenon?

Antarctic ice has grown by 50% in the last three years

Since 2023, Antarctic sea ice has grown by 1.2 million square kilometers, which is a 50% increase in just three years. "Experts" cannot explain this astonishing recovery because models only predict a decline.





The National Snow and Ice Center in Boulder, CO

https://x.com/JVinos_Climate/status/2018232921858191523

Antarctic Ice Sheet Records Surprising Mass Gain After Decade of Accelerated Loss - SciChi

1) Is present Global Warming a man-made or a natural phenomenon?

North and South Poles ice level changes both defy CO2-induced climate predictions

Climate-Obsesseds' Infantile Reading of Polar Ice By Vijay Jayaraj

Whenever "experts are shocked" they usually have marginalized or ignored altogether factors wrongly assumed to have no influence over their hypotheses, theories or beliefs. Nowhere is this more evident than in climate science, where changes in geophysical phenomena continue to defy assumptions and forecasts presented by some of the most highly paid and influential scientists on the planet. Among the most infamous examples is the failure of computer climate models to accurately predict real-world temperatures. This is predominantly due to the unscientific exaggeration of carbon dioxide's (CO_2's) potency in warming the atmosphere. Now, scientists have encountered more "shocks" as polar sea ice is refusing to behave as expected. Since September 1, 2024, an astonishing 579 billion tons of fresh snow and ice have blanketed the Greenland ice sheet, marking the most significant accumulation for that date in at least eight years - far surpassing the 1981-2010 average. Meanwhile, both the North and South Poles are defying expectations, piling on more ice despite, as reported in hyperbolic headlines, "record-breaking" global heat. It's a breathtaking, almost surreal twist in the story of our planet's climate! According to NASA, "Arctic sea ice reaches its minimum extent (the area in which satellite sensors show individual pixels to be at least 15% covered in ice) each September."In the post-2010 era, the September minimum extent of Arctic sea ice occurred in 2012, which was also the lowest since satellite measurements began in 1980. But ever since 2012, ice has been increasing or oscillating well above that year's mark.
Likewise, the volume of sea ice has not significantly dropped since 2012 and there has been a nominal increase in volume since the low point of 2020.

1) Is present Global Warming a man-made or a natural phenomenon?

North and South Poles ice level changes both defy CO2-induced climate predictions

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So, why is the minimum coverage of Arctic sea ice holding above the level of 2012?
One of the most obvious reasons could be that CO_2 is not as powerful a temperature control knob, which is a possibility that many well-funded scientists refuse to take into consideration.
Also, remember that we are in the Holocene epoch, a warm geological phase between two glacial advances – one that ended about 10,000 years ago and the next expected to occur some number of thousand years hence. An upward tick in Arctic temperatures shouldn't surprise us, regardless of whether we emit CO_2 or not.
Arctic ice levels in the 17th century during the Little Ice Age were one of the highest since continental glaciers blanketed Canada and into the lower 48 states to create the Great Lakes.
Antarctica gained ice from 2021 to 2023, with studies showing nearly 108 gigatons per year added, mainly due to increased snowfall in East Antarctica.
Data from Vostok and Concordia stations in East Antarctica indicate extremely cold temperatures in early May, with minimums of minus 106.6 degrees Fahrenheit at Concordia on May 12. With winter just beginning, the temperatures are likely to dive further.
As recently as 2023, Concordia station recorded one of its lowest temperatures for the current decade, a brutal minus 117.76 degrees. Similarly, at Western Antarctica's Byrd Station, a likely all-time low of almost minus 50 degrees was recorded as recently as 2023. These numbers may be surprising, but they are in tune with the unpredictability of climate and nature in general.
The climate system is complex, and the science is not settled. Our understanding of climatic dynamics is in its infancy. Changes in polar ice presage is not a catastrophe.

1) Is present Global Warming a man-made or a natural phenomenon?

1) Scientific study shows importance of natural climate change factors

The scientific study, Climate of the Past, Present and Future: a Scientific Debate by Jauvier Vinos shows the natural climate change and its contribution to ongoing multi-centennial global warming and critically reviews:

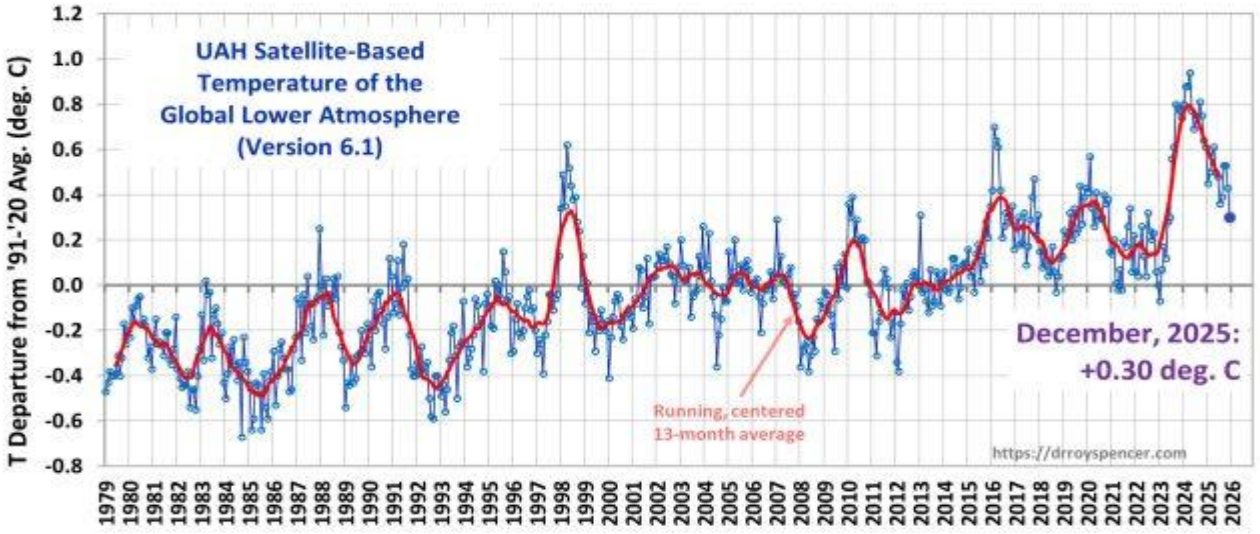
- Milankovitch cycles
- abrupt glacial (Dansgaard-Oeschger) events
- Holocene climate variability
- the 1500-year cycle
- solar activity
- volcanic eruptions
- greenhouse gases
- energy transport

It shows how important natural climate change has been on human societies of the past. It also produces new climate projections for the 21st century and when the next glaciation could happen. Variations in the transport of energy from the tropics to the poles have been neglected as a cause of climate change, and solar activity variations affect the climate by modulating this transport. Transporting more energy from a greenhouse gas-rich region, the tropics, to a greenhouse gas-poor region, the poles, increases the amount of energy lost at the top of the atmosphere. The effect resembles a reduction in the greenhouse gas content. This Winter-Gatekeeper Hypothesis shows how variations in solar activity regulate Earth's energy transport and, in so doing, affect atmospheric circulation, the rotation of the planet, and the El Niño/Southern Oscillation. By uncovering a strong natural climate change component, it provides an important perspective on anthropogenic climate change, fossil energy use, and our future climate; a view quite different from the IPCC's gloomy projection

Reference Climate of the Past, Present and Future: A scientific debate, 2nd ed Javier Vinos
https://www.amazon.co.uk/s?k=Climate+of+the+Past%2C+Present+and+Future%3A+A+scientific+debate%2C+2nd+ed&i=digital-text&crid=5F0HGCV2VAG6&sprefix=climate+of+the+past+present+and+future+a+scientific+debate+2nd+ed%2Cdigital-text%2C239&ref=nb_sb_noss
Greatest Mysteries of Climate Change.
pic.x.com/ULmpQy17VQ

Hunga Tunga Ha'apai Volcano Impacted Global Temperature

The 490-foot underwater eruption of the Hunga Tonga-Hunga Ha'apai volcano on January 15, 2022, blasted an enormous amount of water and volcanic gases into the sky.[60] (10 per cent of the stratosphere's typical stock,[61]) blanketing the entire globe and changing the water composition of Earth's atmosphere enough to temporarily warm the surface of Earth. However, the global lower troposphere anomaly fell to 0.30C (0.54F) in December 2025, down from 0.43C (0.77F) in November, reinforcing the ongoing reversal since the 2024 Hunga Tonga spike. This volcanic activity only had a small impact on the climate. Global sea surface temperatures are back at the levels of early 2022. The unprecedented warming event of 2023-2024 is now gone.



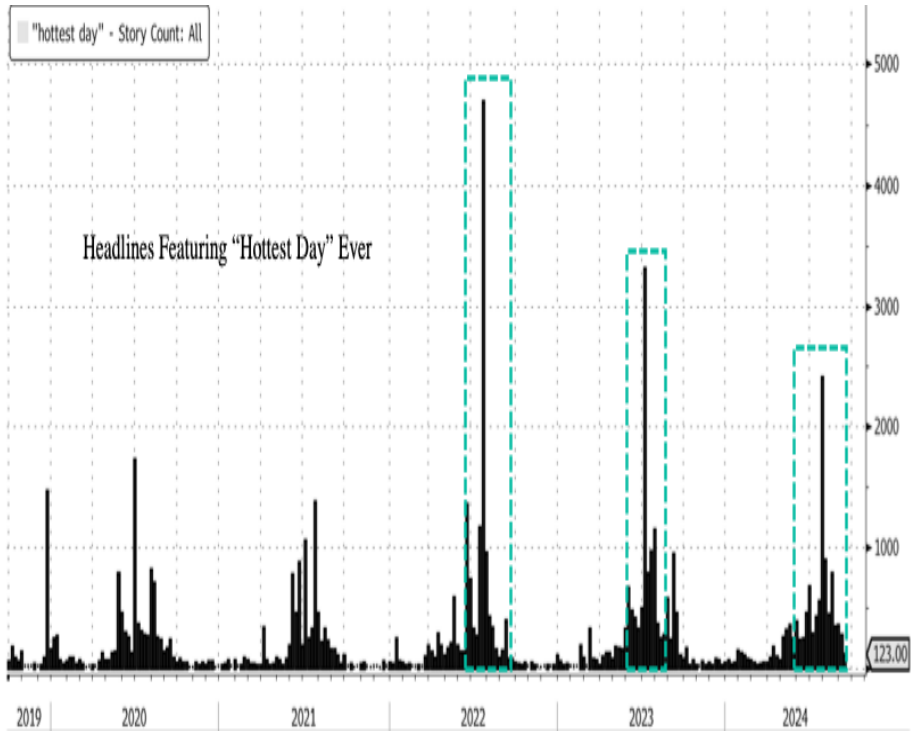
Bing Videos Hunga Tunga satellite view

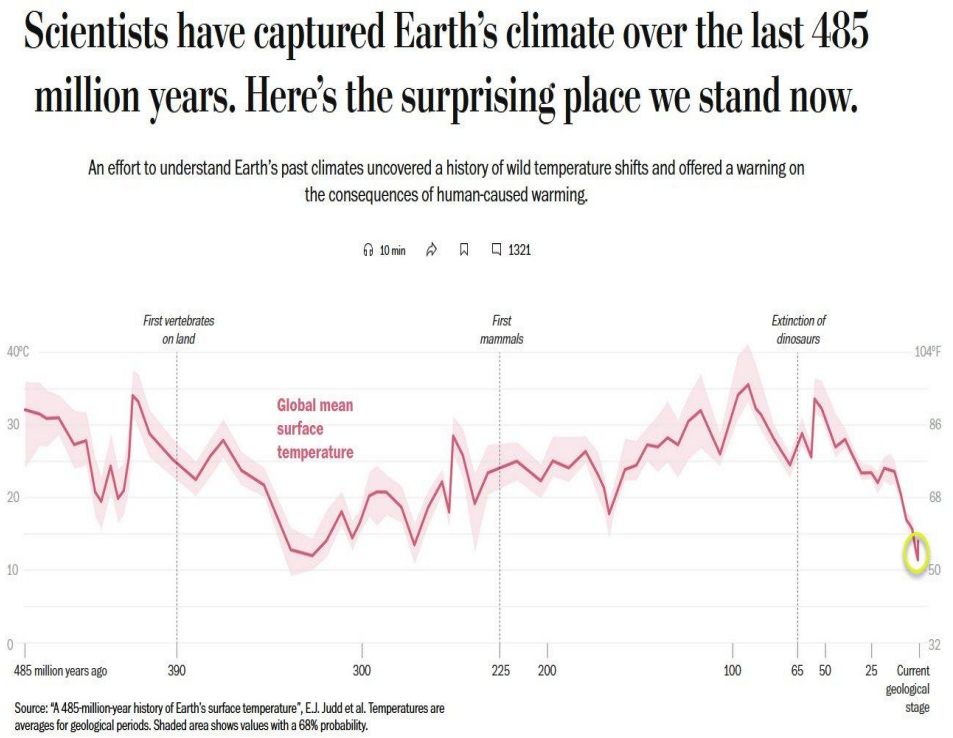
A volcanic eruption sent enough water vapor into the stratosphere to cause a rapid change in chemistry - NOAA Research

Volcanoes & Climate Change Paul Burgess

1) Is present Global Warming a man-made or a natural phenomenon?

Global warming is a normal, nature driven phenomena





https://www.zerohedge.com/weather/msm-journos-inadvertently-reveal-shocking-truth-about-global-warming;

https://www.zerohedge.com/weather/msm-journos-inadvertently-reveal-shocking-truth-about-global-warming

At last the answer: how much warming is natural and how much warming is from mankind?

Paul Burgess's successful climate modelling shows that since 1983 , 75% of the modest global warming experienced is natural and only 25% due to mankind's added CO2. Another 1 degree of warming in the next 175 years, as supported by his modelling, would be good and beneficial to mankind

1) Is present Global Warming a man-made or a natural phenomenon?

Global warming is a normal, nature driven phenomena

Ice core temperature data shows numerous glacial cooling and warming periods.

Temperature records throughout all of geologic history also show that temperatures have always been changing and the present global warming is a normal phenomenon.

CO_2 Facts vs. Fear with Dr. William Happer | Climate Debrief

(1324) The Inconvenient Truth About Climate Science — Steven Koonin - YouTube

https://wattsupwiththat.com/2023/02/03/the-new-pause-lengthens-again-101-months-and-counting/

(1106) Elimination of CO2 is a suicide pact – Professor William Happer on climate change misconceptions –YouTube

THE REAL CAUSE OF CLIMATE CHANGE – The Highwire with Del …

(1115) "There's no emergency" – dissident climatologist Dr Judith Curry on climate change –YouTube

There is no climate emergency

"Stripes Across My T-Shirt" Current conditions are not unusual except in being abnormally chilly.

https://www.zerohedge.com/weather/msm-journos-inadvertently-reveal-shocking-truth-about-global-warming

Graeme Phipps letter to Jersey Paper:

https://edition.pagesuite.com/infinity/article_popover_share.aspx?guid=43bd1bf4-ad4e-4186-a29e-50390607863c&share=true&appcode=JEEVPO

Climate The Move: https://www.youtube.com/watch?v=A24fWmNA6lM

Feed | CO2 Coalition Discussion Group Climate Change and Extreme Weather Events Jim Steele

The 'Climate Crisis' of 1695 - Climate Change Dispatch

https://wattsupwiththat.com › good-climate-scientists-suffer…

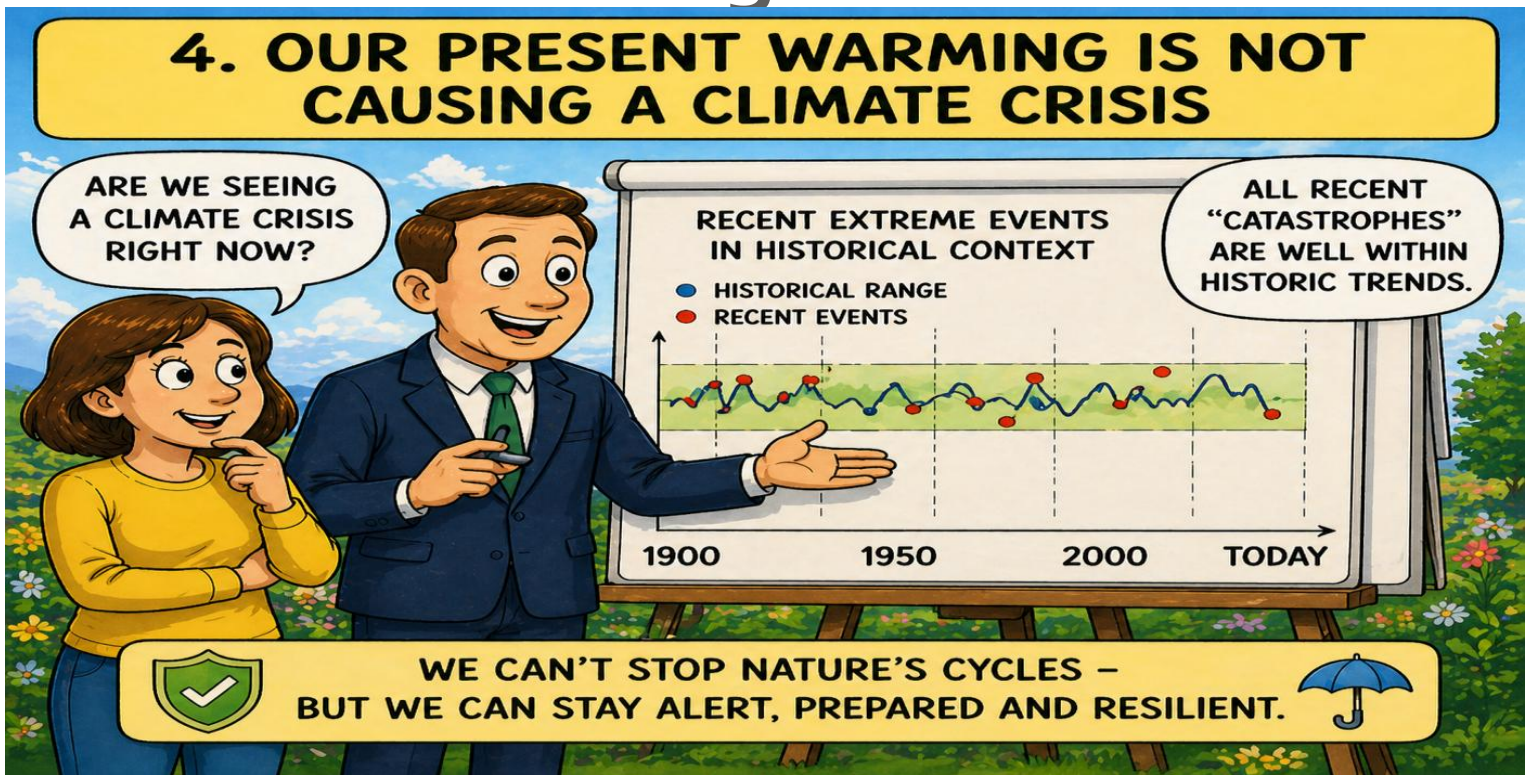
(15583) Quantifying CO_2 while ignoring water vapor is a GIANT scam! – YouTube

https://youtu.be/8904MH79z-4 Polar shift possibility

Global Warming and CO_2
2 of 11 Questions

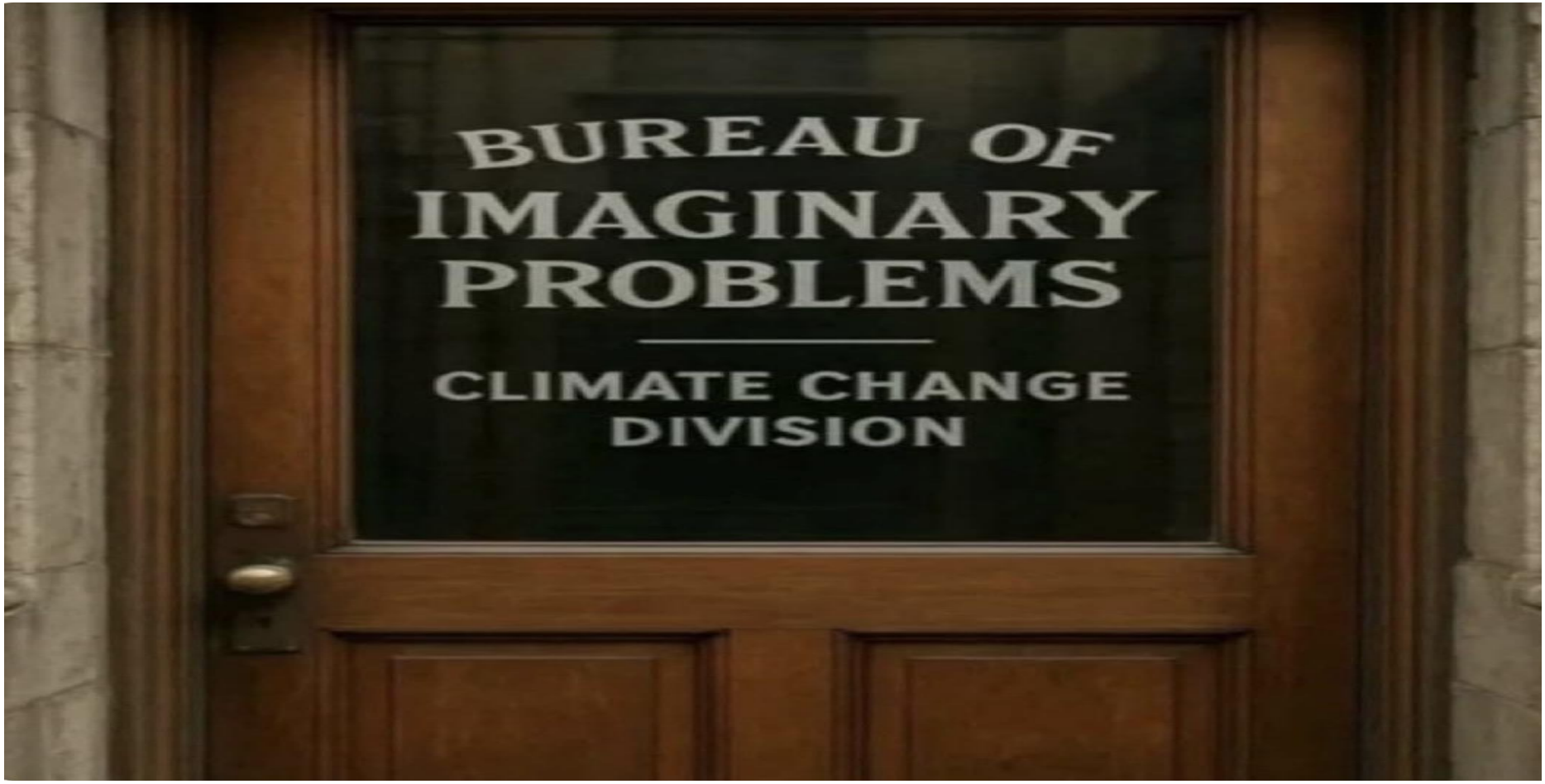
Question 2

Are warmer temperatures and higher CO_2 levels causing a climate crisis?



https://www.climateskeptic.org/p/the-climate-skeptic-podcast-episode-722?r=1jqxnz&utm_campaign=post

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

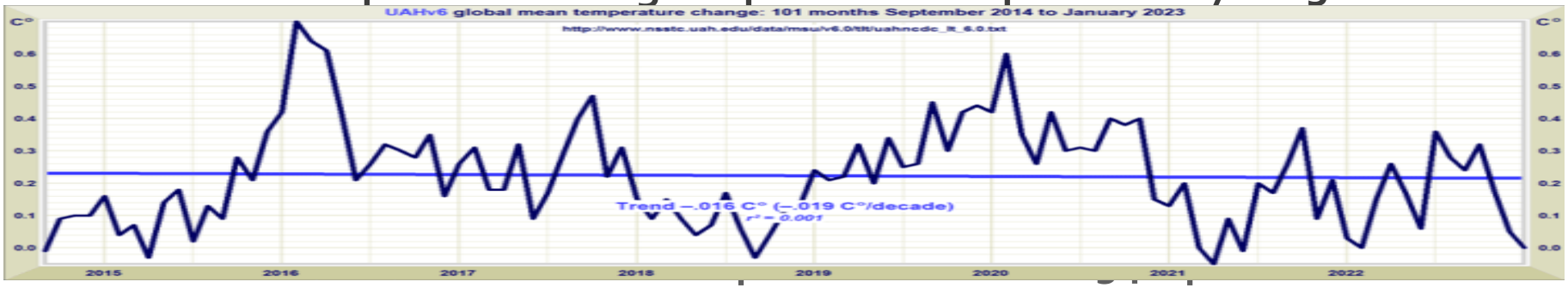


False Climate report: News about Media Doing 'damage Control' As Widely Reported Study …
Climate Scam Explanation https://www.facebook.com/share/v/14PYv1fEJhD/?mibextid=wwXIfr
The crisis language comes from activists and the media, not from The Science they claim to cite.
https://x.com/i/status/2023427151538835841
Fossil Fuels ¦ Climate Chronicles - CO_2 Coalition

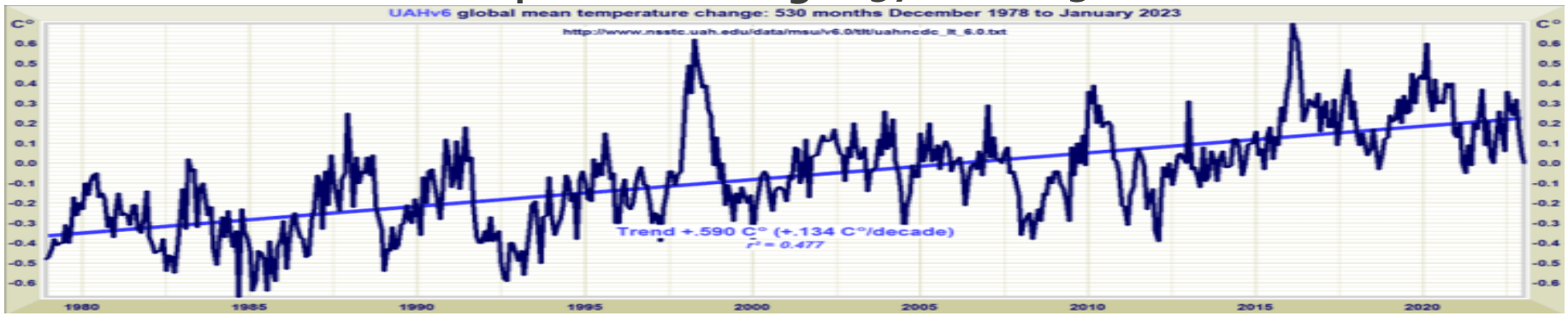
2) Are warmer temperatures and higher CO2 levels causing a climate crisis? Global warming is slow, small, harmless and on the evidence to date, beneficial

There has been a warming trend since the late 19th century of only about + 1.2 – 1.5 °C since pre-industrial times (1850- 1900 baseline), recovering from the Little Ice Age, a cooler period centred on Eurasia. However, over the last 541 million years, Earth's average temperature has often hovered around 19 – 25 °C, far warmer than today's ~ 16 °C, with thriving ecosystems and no human influence. Our current interglacial is relatively cool. A degree or two of variability fits natural cycles

Global mean temperature change September 2014 to January 2023



Global mean temperature change 1978 to 2023



Reference: https://wattsupwiththat.com/2023/02/03/the-new-pause-lengthens-again-101-months-and-counting/

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis? Heat Wave Index for the USA between 1895 and 2020

- In recent decades USA, heat waves have been less frequent and severe than they were in the 1930s.
- Most of the modest warming that has occurred over the past few decades has largely affected winter temperatures, locations closer to the poles and temperatures recorded at night.

Heat Waves



Reference book: Climate at a Glance page 49, (Source: EPA).

Source: Environmental Protection Agency Climate Change Indicators Aug 14, 2021

(1135) Judith Curry: "Relax, there is no climate emergency!" – YouTube
https://youtu.be/pV7TZzD1N5Q

Climate and environment updates: US had the coldest January in decades
https://abcnews.go.com/International/live-updates/climate-environment-updates/?id=115115959
https://www.youtube.com/watch?v=ZFHHOBiUrkg
Feed | CO_2 Coalition Discussion Group Climate Change and Extreme Weather Events Jim Steele

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

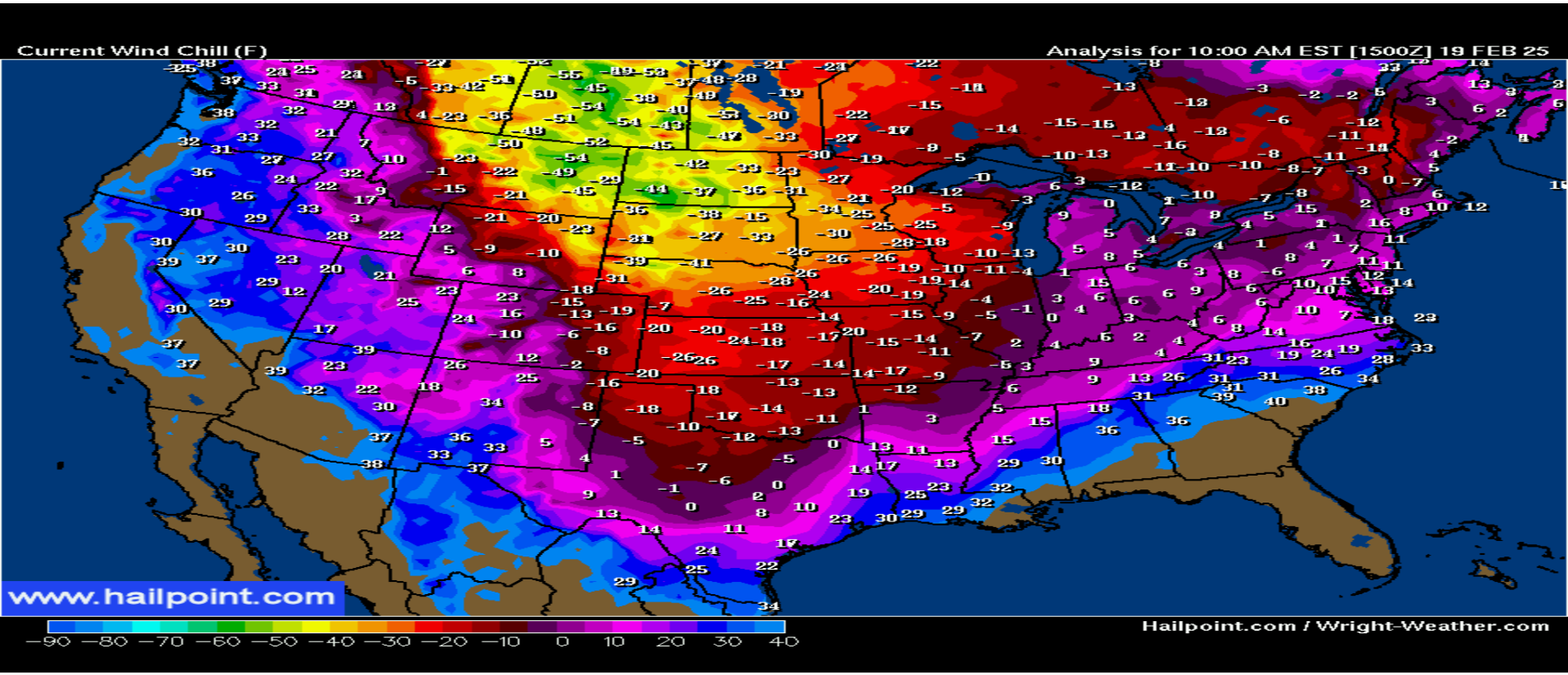
Meso-American Megadroughts Worse in the Past

- Research finds droughts aren't unusual in the Amazon and **droughts in recent decades are in no way as severe or prolonged as those the region experienced in the past.** Using proxy data to develop a rainfall record of the lowlands of the Yucatan from the 800s through just over 1000 AD, the researchers found a long-term drought occurred that likely contributed to "sociopolitical upheaval and depopulation of cultural centers in the Maya Lowlands during the Terminal Classic period.". In particular, a 13-year megadrought from 929 to 942 AD corresponded with halted monument construction and political disruption at key Maya sites, plus population decline and dispersal.
- Before and after the megadrought, the Maya experienced radical swings of extreme weather, with repeated periods of drought and extreme rainfall, and droughts followed by flooding were common, despite CO_2 levels lower than today's.
- During the 150 years between 871 and 1021 AD, the lowlands of the Yucatan experienced eight wet-season droughts lasting three or more years, broken up by one or two extremely wet rainy seasons. The longest drought of the period lasted 13 years. They were incapable of sustaining the large cities and temple complexes in the region during the extended droughts, leading to the decline of many cities and complexes.
- Inscriptions on the Maya temples confirm the dates of the extreme droughts up until the 13-year drought, when new inscriptions at Chichen Itza, one of the largest Mayan complexes ever developed, stopped entirely.
- **Sources:** Jo Nova; Science Advances

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?
February 19, 2025: Record-breaking cold across North America

- Recent low temperatures go against CO_2 driven global warming climate crisis

Record-breaking cold: Temperatures to plunge to as much as 50 degrees below



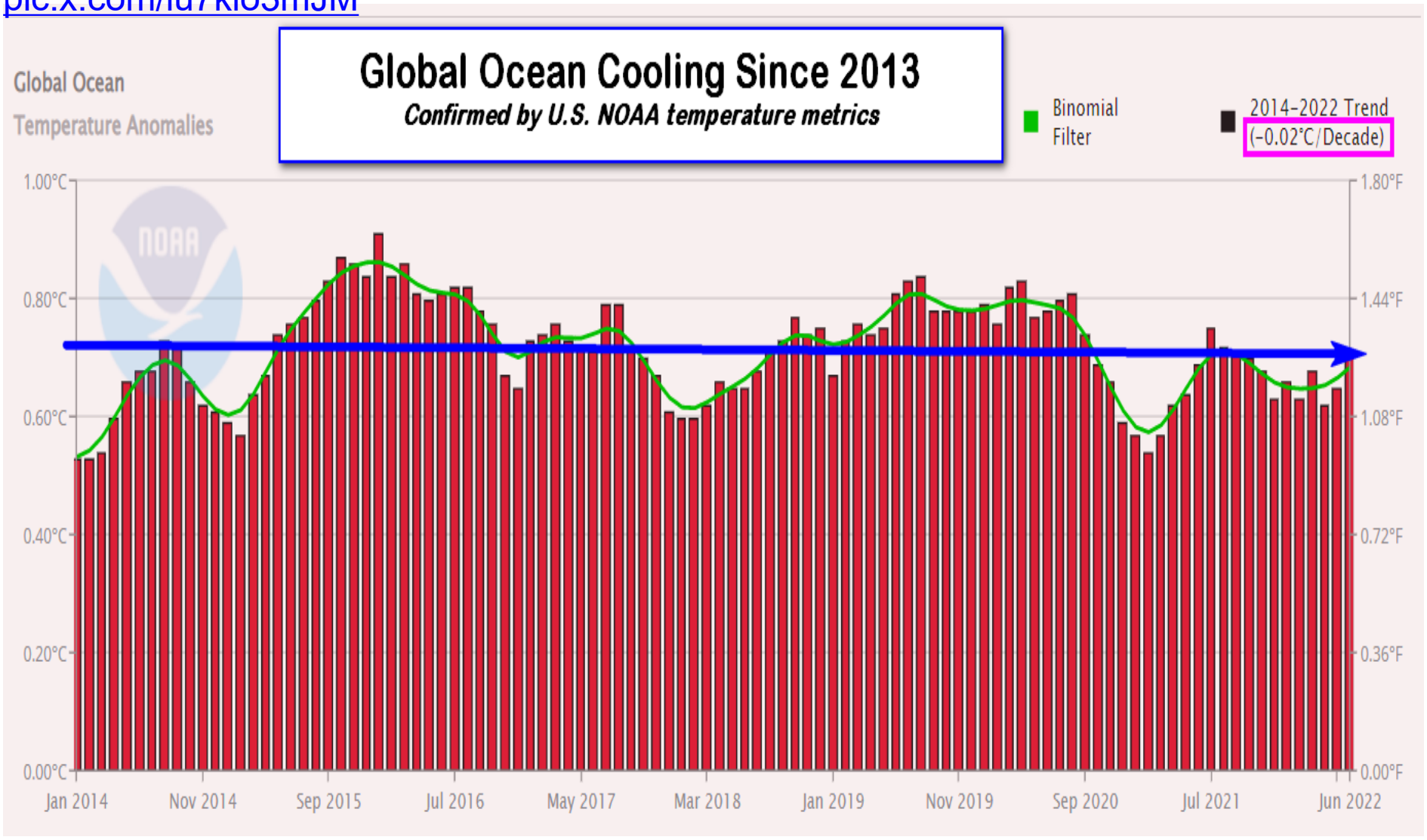
https://www.cnn.com/2025/02/18/weather/frigid-cold-us-flooding-tuesday-hnk/index.html

What Climate Crisis? Weather Channel Reports "Record-Breaking Cold" For August
https://www.zerohedge.com/weather/what-climate-crisis-weather-channel-reports-record-breaking-cold-august

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

Graph showing ocean temperature changes 2013 - 2022

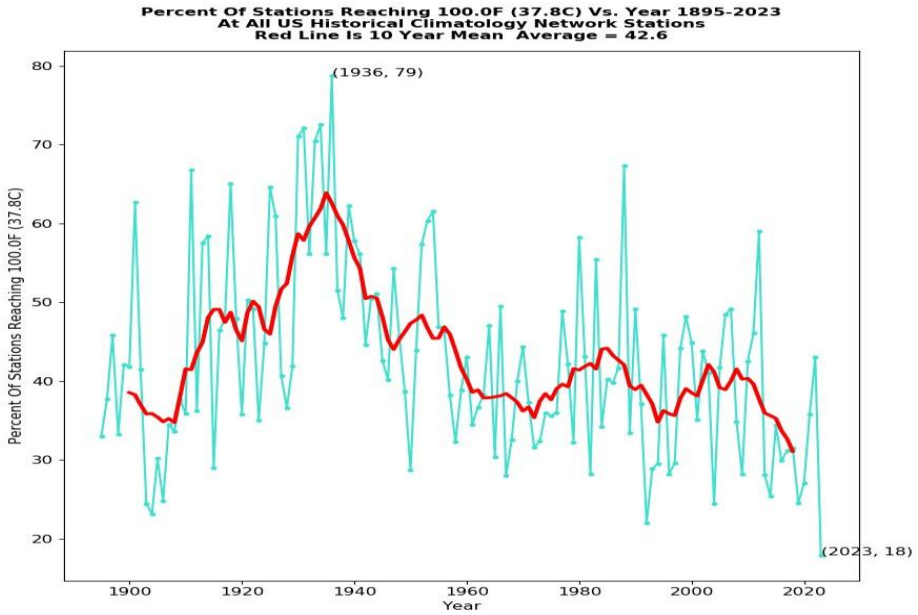
A study of ocean temperatures from 2013-2022 shows modest ocean cooling
pic.x.com/iu7kio3mJM

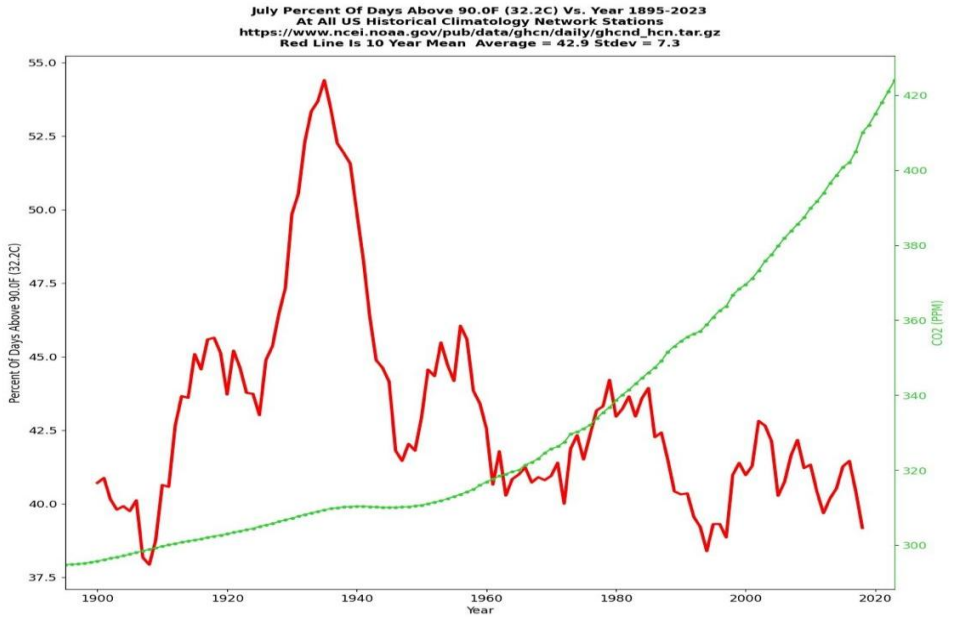


2) Are warmer temperatures and higher CO_2 levels causing a climate crisis? Mean temperatures from all USA climatology stations: 1895 and 2023

USA, temperature highs occurred in the 1930s and have not reached these highs since then.

No correlation between temperature change and increasing CO_2





Temperature has warmed faster in the recent past, before emissions rose, than it has recently

A new paper from a researcher at Queens University in Belfast, Ireland suggests the temperature rise in the early part of the twentieth century was faster and steeper than in the latter half of the twentieth and early part of the twenty-first centuries, when human CO_2 emission rates were considerably higher. The author examined more than "60 million daily temperature observations from over 1600 global weather stations, with continuous records spanning from the pre-1900 era to 2024." The temperature stations spanned 29 countries.

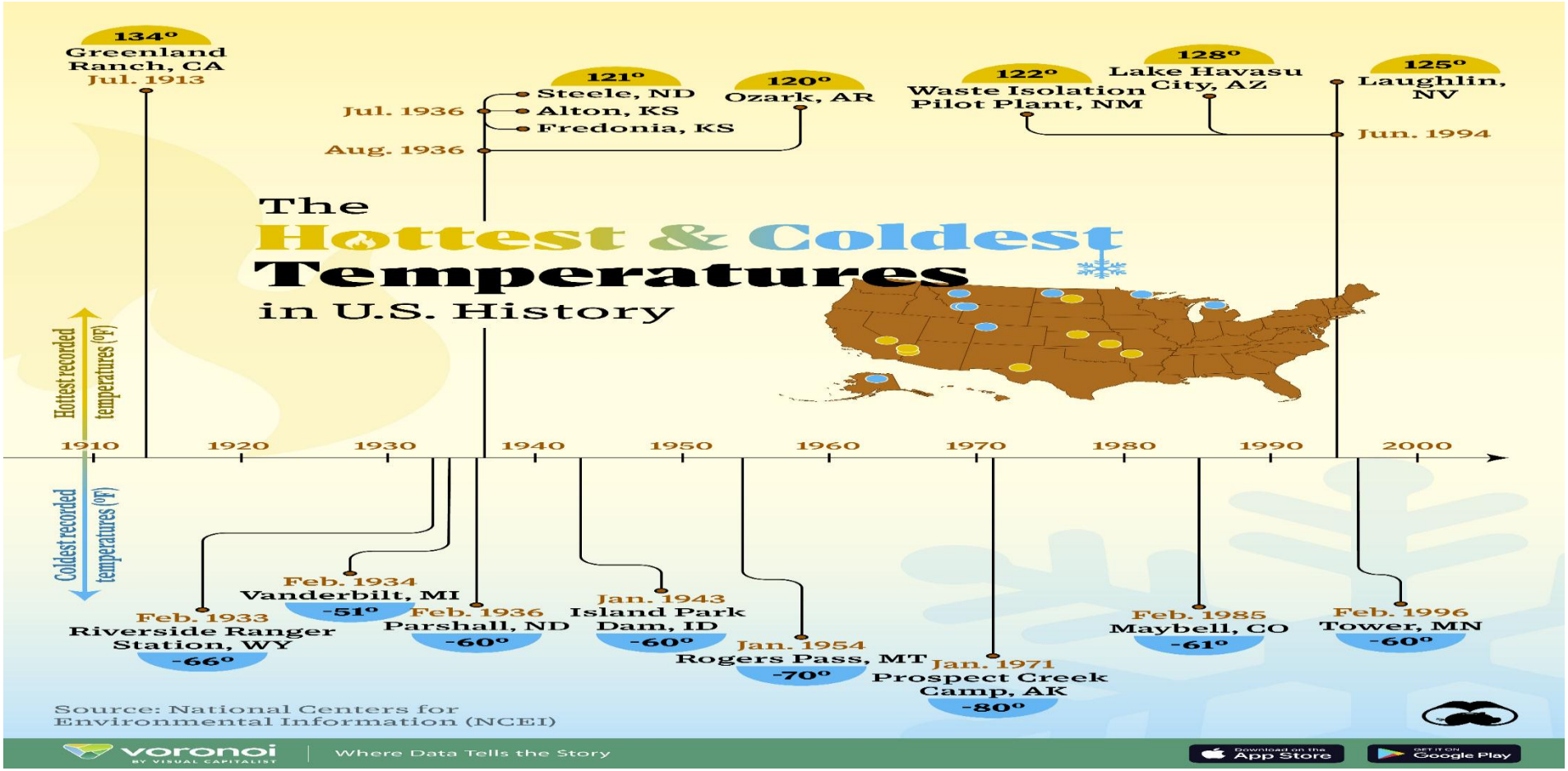
https://www.youtube.com/shorts/qL3dZ5Qimiw

https://climatechangedispatch.com/ice-core-data-modern-warming-statistically-unremarkable/

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis? Recent USA temperature changes are not unusual

- In the USA, temperature highs occurred in the 1930s.

USA temperatures reaching 100 Fahrenheit



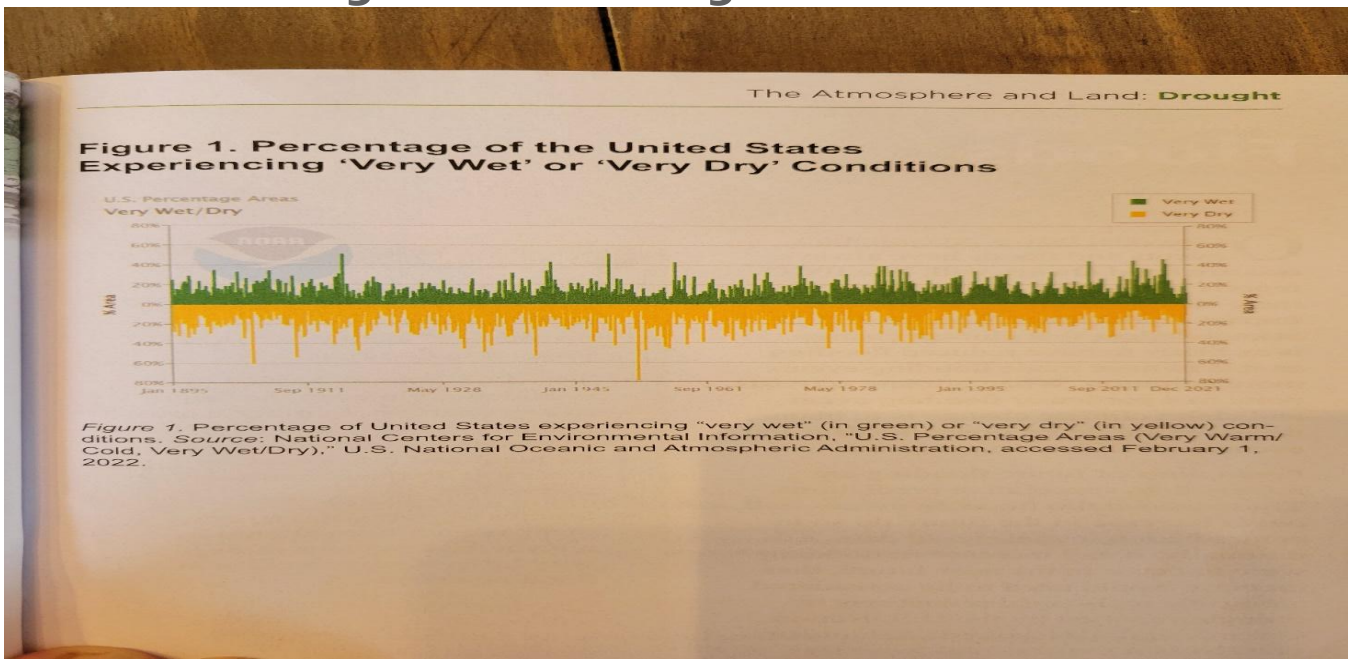
Carbon Dioxide and a Warming Climate are not Problems - Clintel Foundation 2023
[submitted version can be downloaded for free]

2) Are warmer temperatures and higher CO2 levels causing a climate crisis?

Percentage of the USA experiencing very wet or very dry conditions between 1895 and 2022

- Between 1985 and 2022, there has been no significant change in very wet or very dry conditions in the USA in spite of increasing CO2 levels.
- Temperature extremes in the US have become less common and somewhat milder since the 19th century

Drought and Flooding Conditions



Reference book: Climate at a Glance Page 9

Reference book: Unsettled Chapter 5

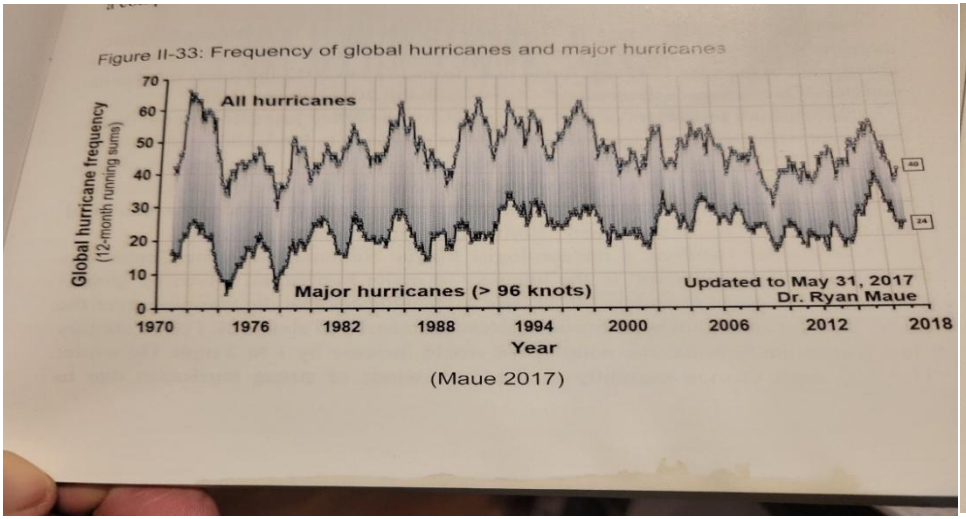
Source: National Centers for Environmental Information US National Oceanic and Atmospheric Administration Feb 1, 2022

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

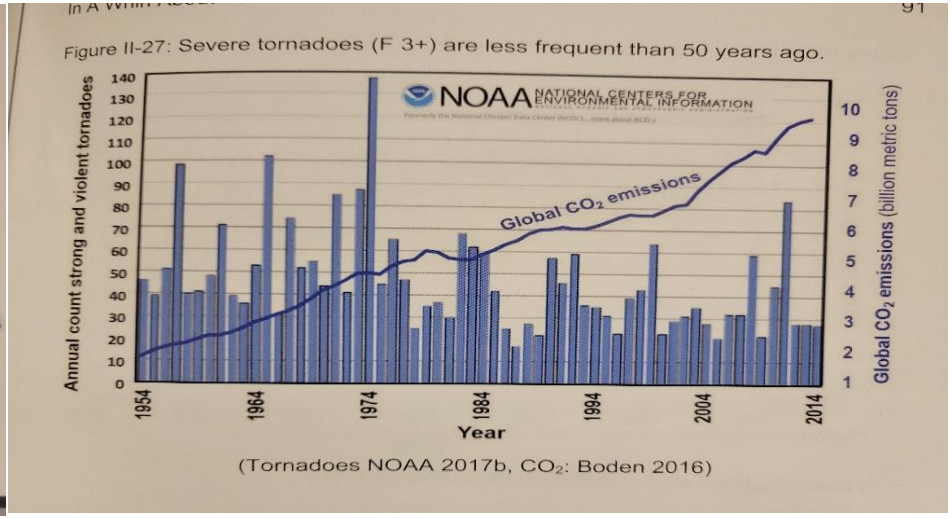
Two graphs showing number of hurricanes and tornadoes plus CO_2 changes over recent time

- The frequency of global and major hurricanes has remained at the same levels over the last 50 years and severe tornadoes have been less frequent over the last 50 years.
- Hurricane frequencies fell over the last 250 years.
- There is an inverse correlation between intense El Niño ocean currents and hurricanes.
- The media continues to promulgate unsupported alarm
- **2025 Atlantic Hurricane Season Ends With No Landfall In the United States**

Hurricanes



Tornadoes



Reference book: Inconvenient Facts pages 91, 95

Reference Book: Unsettled Chapter 6

Source CO_2 Boden 2016, Tornadoes NOAA 2017 Hurricanes Maue 2017

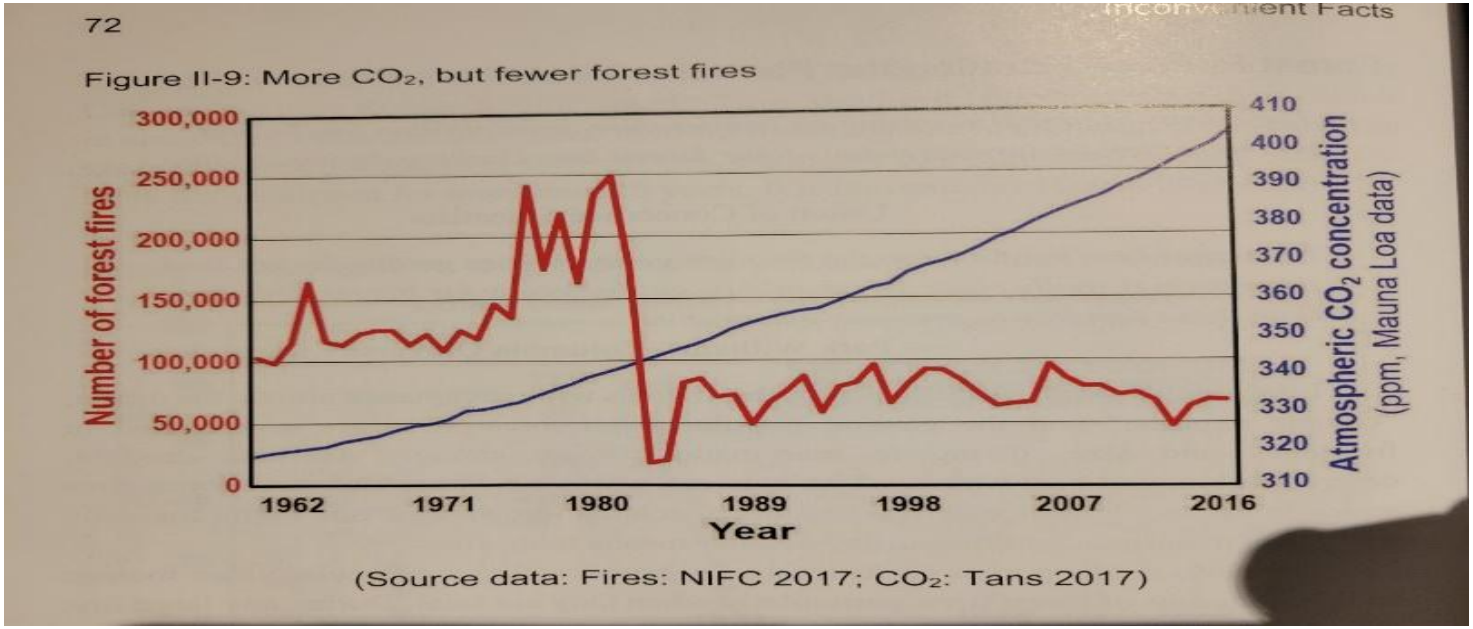
Media Ignores Real-World Data When It Comes to Tornadoes and …

2) Are warmer temperatures and higher CO2 levels causing a climate crisis?

Graph showing US forest fires between 1962 and 2016 and changing CO2 levels

- Forest fires across the Northern Hemisphere have decreased since 1980, although associated costs and damages increased with more people and buildings impacted.

Forest Fires Across the USA



Reference book: Inconvenient Facts page 72

Source Fires NIFC 2017 CO2 Tans 2017

- https://open.substack.com/pub/rogerpielkejr/p/what-the-media-wont-tell-you-about-783?r=ukert&utm_campaign=post&utm_medium=emailNorthern
- Increases in the world's most extreme wildfire events probably driven by fire size and simultaneity https://co2-coalition.mobilize.io/file_attachments/668397/download;

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

During the Little Ice Age, More Forest Fires Burned Than Today

- **A 2025 *Nature Communications* study used more than 1,800 tree-ring fire-scar sites across the United States and Canada to compare historical fire activity with the satellite-era period from 1984 to 2022.** Results indicate, despite increasing area burned in recent decades, that a widespread fire deficit persists across a range of forest types and recent years with exceptionally high area burned are not unprecedented when considering the multi-century perspective offered by fire-scarred trees.
- Based on that old fire-scar record, those sites would have been expected to burn 4,346 times from 1984 to 2022. They burned only 989 times. Modern fire occurrence was therefore only 23% of the historical level.
- The most widespread modern fire year was 2020, when 6% of sites burned. That just about matched the historical average. It was nowhere near the historical maximum of 29% in 1748, deep in the Little Ice Age.
- The study also found that years with no recorded fire were more than 100 times more common in the modern period than in the 1600 to 1880 reference period.
- Claims that today's warming has produced a historically unprecedented North American fire occurrence is not supported by reality.

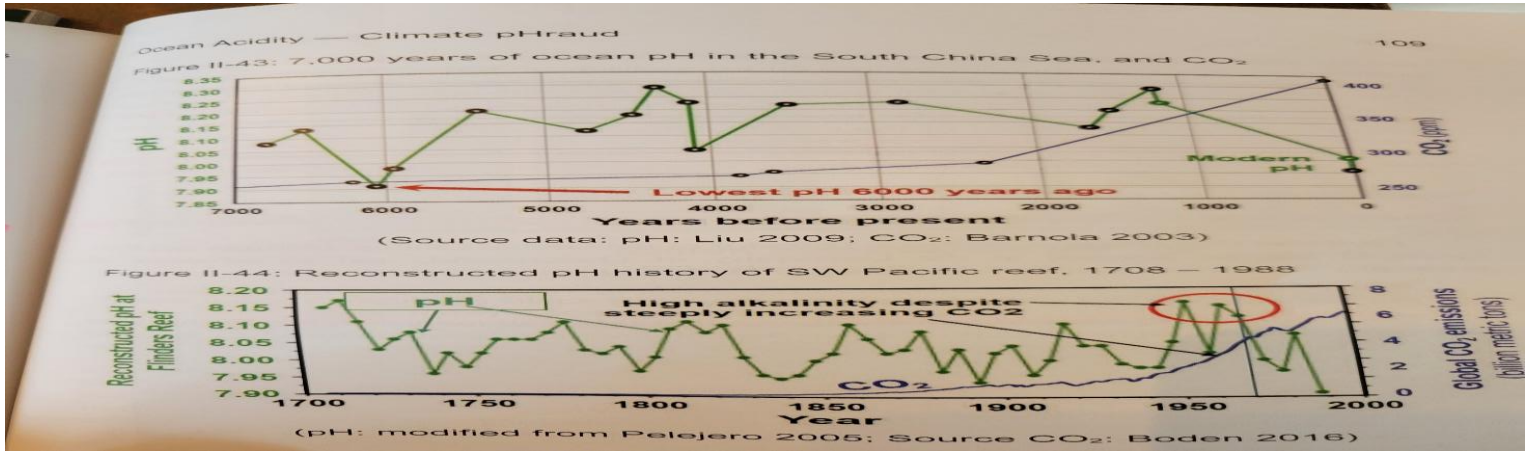
Reference: **A fire deficit persists across diverse North American forests despite recent increases in area burned** *Nature Communications* **volume 16,** Article number 1493 (2025)

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

Graph showing ocean pH levels and CO_2 levels

- CO_2 is dissolved and stored in the oceans and the oceans retain CO_2 over a long period of time.
- Ocean acidity is now between 7.9 and 8.2. Neutral is pH7. Vast amounts of acid would be required to acidify oceans.
- The effects of oceanic pH levels ranging from 7.6 to 8.3 on marine life, including coral reefs, coastal estuaries, and open ocean environments, show no consistent evidence of harm within this pH range. Coral bleaching, a natural event, is exemplified by the Great Barrier Reef, which fully recovered from its 2016 low following storm events, with no conclusive evidence linking bleaching to thermal stress.
- Ocean acidity doesn't correlate with CO_2 changes. Over the past 450 million years, the oceans did not become acidic even with CO_2 at 15 times higher than present levels.
- Without carbon dioxide, oceans would be highly alkaline, roughly ammonia. Adding more carbon dioxide to the atmosphere would cause a small decline in the pH of the oceans, but they still would be alkaline, not acidic.
- There is no correlation between CO_2 and oceanic pH or evidence that higher CO_2 levels will make the oceans acidic.

Changes in pH and CO_2 levels over the last 7000 years and the last 300 years



Reference book: Inconvenient Facts page 109 Source pH modified from Pelejero 2005; CO_2 Boden 2016

Great Barrier Reef: Record high coral cover on parts of world's largest reef system - CBBC Newsround **Ocean Acidification True or False - Exploding the Myth**

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

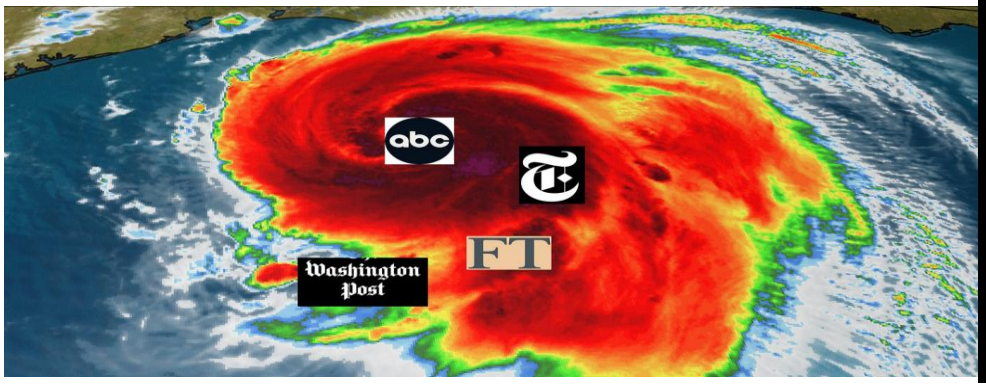
Media and political reporting can be misleading

[Media Lying About Climate And Hurricanes]

Media Lying About Climate And Hurricanes

It's time to state the obvious.

Michael Shellenberger
October 5, 2022



Over the last several weeks, many mainstream news media outlets have claimed that hurricanes are becoming more expensive, more frequent, and more intense because of climate change.

- *The Financial Times* reported that "hurricane frequency is on the rise."
- *The New York Times* claimed, "strong storms are becoming more common in the Atlantic Ocean."
- *The Washington Post* said, "climate change is rapidly fueling super hurricanes."
- *ABC News* declared, "Here's how climate change intensifies hurricanes."
- Both the *FT* and *N.Y. Times* showed graphs purporting to show rising hurricane frequency using data from the U.S. government's National Oceanic and Atmospheric Administration (NOAA).

All of those claims are false.

The increasing cost of hurricane damage can be explained entirely by more people and more property in harm's way. Consider how much more developed Miami Beach is today compared to a century ago. Once you adjust for rising wealth, there is no trend of increasing damage.

Al Gore's Climate Crisis predictions made in 1992 but now 30 years later proven false



Inconvenient Truth: 32 Climate Predictions Proven False | Facts Matter (youtube.com) . Also see This one for more information

https://static1.squarespace.com/static/656f411497ae14084ad8d03a/t/66bc6870a7ad654a13b2ac7e/1723623541496/Homewood-BBC-2023.pdf

Article on media bias *https://www.dailymail.com › news › Ofcom-accused-Orwellian-assault-free...*

open.substack.com/pub/rogerpielkejr/p/climate-journalism-is-broken?r=ukert&utm_campaign=post&utm_medium=email

Bill Gates and others change their views on the seriousness of Climate Change Prediction of Climate Catastrophe Loses Some of Its Strongest ... Al Gore's 'Inconvenient Truth' turns 20, and critics say ...

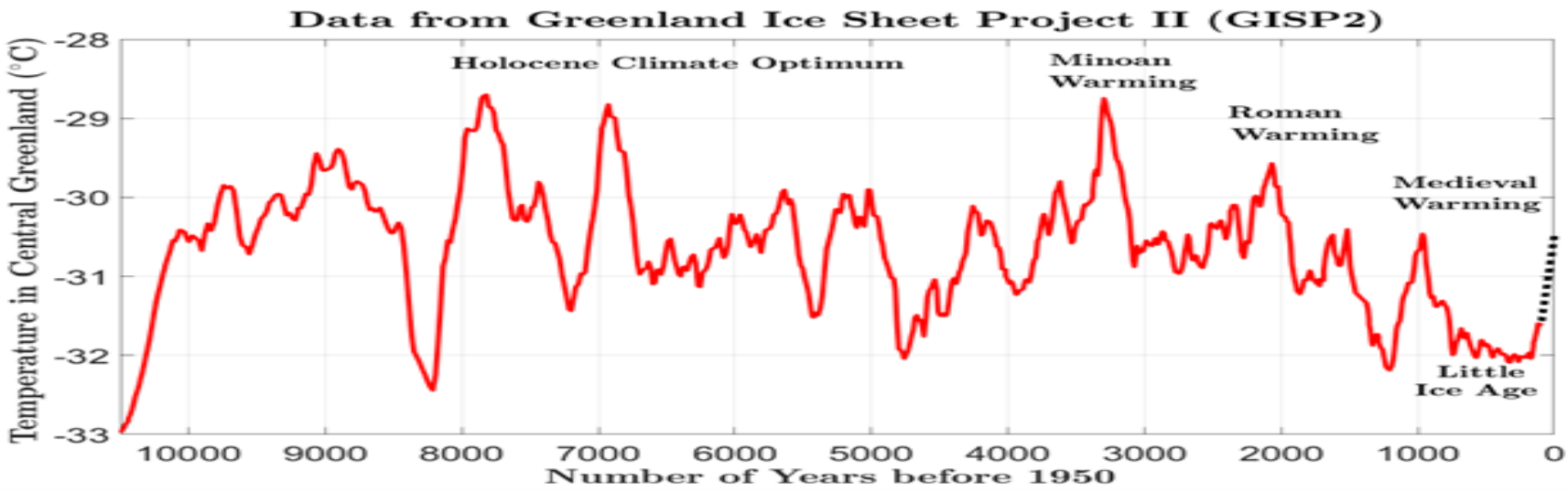
2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

Media reporting can be misleading – We are not experiencing a record temperature rate rise

Recent "record warming rates" are not the highest rate records after all.

- The Central England Temperature record is the longest thermometer record available.
- The 40-year period from 1695 to 1735 had an increase in temperature of 2.0 degrees C or 0.04 degrees per year. From 1978 to 2018 it rose 1.2 degrees C or 0.03 degrees per year.
- The Central England Temperature record is consistent with the proxy ice core records, for previous warmings, the medieval warming, Roman warming, the Minoan warming, etc.
- The Greenland Ice Sheet record shows that the run-up to the Minoan, Roman and Medieval Warm Periods occurred with faster warming. The modern temperature spike is not climate; it is statistical. https://x.com/i/status/2022838278399922632

https://climatechangedispatch.com/ice-core-data-modern-warming-statistically-unremarkable/



2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

Political reporting can be misleading

Falsified temperature records by the Netherlands Meteorological Institute

- In 2016, the Netherlands Meteorological Institute adjusted temperatures at De Bilt - the country's main climate station. Daily maximums from 1901 to 1950 were lowered by up to 1.9C, which removed 16 of 23 heatwaves from the record. The altered data were then used to claim modern heatwaves were unprecedented.
- Four researchers challenged the changes. But the institute dismissed the criticism. So the **analysis went to peer review**. In 2021, **it was published**, conclusively demonstrating the method systematically erased historical heat extremes. Today, the Meteorological Institute has quietly changed its approach and **seven erased heatwaves have been restored**.
- A government agency was caught rewriting climate history. The Netherlands Meteorological Institute erased heatwaves of the past, ignored critics, and reinstated the truth only when the evidence became impossible to ignore.
- Policies were built on that manipulated record. Dutch farmers lost livelihoods. Industry and the wider economy paid the price.
- https://x.com/i/status/2021252821425979841

The claim that the USA's strongest Nor'easters are getting stronger is overstated

- Roger Pielke Jr shows recent research — Chen et al. 2025[1] — claiming that Nor'easters have become detectably more intense over recent decades, to be vastly overstated.

Are the Strongest Nor'easters Getting Stronger? A Closer Look

MET OFFICE SHOCK: UK Temperature Network Goes From Bad to Even Worse in Just 18 Months. **Over 80% of the sites are now officially junk**

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

Some of the most erroneous 'climate change' predictions

"Experts" have been making dire predictions on the climate for over one hundred years, and their solution is always for the government to control our lives. They always falsely claim that the predictions and solutions are based on science, but science has nothing to do with it. It is always about taking more money and power for the government, or $science.

One hundred and two years ago, the AP predicted that the ice caps would soon be gone, coastal cities would soon be underwater, and claimed the oceans were dying; instead, the globe went into a cooling period from 1940 to 1975. The dire predictions were 100% wrong, because they were simply fabricated.Fifty-four years ago, around the first Earth Day, billions were set to die from starvation because of disastrous global cooling; the dire predictions were 100% wrong because they were pulled out of thin air. Once the cooling stopped in the late 1970s, the fear mongers were back to pushing global warming propaganda, of course caused by humans and our use of natural resources. Thirty-five years ago, the United Nations put out a dire warning, essentially repeating the false forecasts from 1922, that said that the government only had ten years left to solve the problem; these predictions were 100% wrong because, again, they were just invented. From a report at the time:

A 1989 AP Report: Nations 'Wiped Off Face of the Earth' by 2000

A senior U.N. environmental official says entire nations could be wiped off the face of the Earth by rising sea levels if the global warming trend is not reversed by the year 2000. Coastal flooding and crop failures would create an exodus of 'eco-refugees,' threatening political chaos, said Noel Brown, director of the New York office of the U.N. Environment Program, or UNEP. He said governments have a 10-year window of opportunity to solve the greenhouse effect before it goes beyond human control.

By Jack Hellner

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

Some of the most erroneous 'climate change' predictions

- Hurricane forecasters are bewitched, bothered, and bewildered. The Atlantic hurricane season was supposed to be epic. Instead, it's turned into a real dud.
- Huge storms wreaking havoc on coastlines from Aruba to Long Island were supposed to line up in the Eastern Atlantic in June and hit us one at a time until late September. The damage was going to be historic and the TV coverage was going to give climate change fanatics plenty of air time to vent that 'this is just a foretaste' of what's to come.

McNoldy's 'omen' proved to be something much less. There hasn't been a named storm since August 21 and the conditions, still optimum for large, dangerous storms to form, aren't producing the killer hurricanes forecasters predicted.

And what do the so-called experts blame for fewer storms than predicted? Dust and wind off the Saharan desert! Somehow, these experts who tell us that they can predict global temperatures and sea levels forever, couldn't accurately predict storm activity a few months out because the dust blocked the sun and therefore storms didn't develop; per the "experts," the "Saharan Dust Puts Atlantic Hurricane Season On Pause". This natural dust and wind, from a tiny speck of land (the Sahara Desert) overcame the warm oceans, eight billion people breathing out CO_2, billions of gas-powered cars and trucks, and billions of cows spewing methane - and we're to believe this? Politicians, scientists, bureaucrats, the Paris Climate accord, and green slush funds had nothing to do with blocking the storms. They were blocked naturally.

Temperatures and sea levels have always changed cyclically and naturally without humans causing the change. Most of the media will just repeat the dire forecasts, no matter how wrong previous predictions have been, without asking questions or doing research. Human-caused climate change is the biggest scam of all time.

From Rick Moran at PJ Media:

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis? Fearmongering shouldn't drive climate policy.

Fearmongering shouldn't drive climate policy.

Over the past half-century, environmentalists predicted countless calamities that didn't happen and pitched draconian countermeasures that turned out to be mostly misguided.

Forests have expanded globally, most obviously in rich countries but also increasingly across the world.

A recent peer-reviewed study counts almost 100 doomsday predictions made by environmentalists over the past 50 years. Two-thirds predicted doom before today. **All turned out to be wrong.**

The simplistic, alarmist predictions of the 1970s set the tone for decades, however, and still echo in the climate alarmism that argues for expensive, inefficient policies by recycling many of the old scare stories of not enough food and more and more weather catastrophes. Climate change is a real challenge, but, as before, its scariness is greatly exaggerated.

Bjorn Lomborg: Fearmongering shouldn't drive climate policy

Apocalypse now? Communicating extreme forecasts by David C. Rode; Paul S. Fischbeck *International Journal of Global Warming (IJGW), Vol. 23, No. 2, 2021*

:

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis? Fearmongering shouldn't drive climate policy.

-

The Psychology of Climate Doom: How Narrative Outpaces Nuance

A pattern emerges that has less to do with radiative physics and more to do with how people process information under uncertainty. Here's the short list of what drives it:

- Humans are wired to prioritize alarming information over neutral data
- Media coverage amplifies extreme events while downplaying context
- "Consensus" messaging substitutes for deeper understanding
- Scientific uncertainty gets compressed into false precision
- Moral framing turns disagreement into a social risk
- Worst-case scenarios are treated as baseline expectations

Start with a basic feature of cognition: humans are highly sensitive to perceived threats. Most people don't engage directly with technical literature, so they rely on institutional signals. Phrases like "scientific consensus" act as shortcuts, conveying that the issue is settled and discouraging further scrutiny.

The persistence of climate doom narratives follows a predictable pattern:
Human cognition amplifies threats
Media systems favor dramatic framing
Social dynamics reinforce consensus signals
Scientific uncertainty gets compressed or omitted

The Psychology of Climate Doom: How Narrative Outpaces Nuance - Watts Up With That?

:

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis? Fearmongering shouldn't drive climate policy.

The Psychology of Climate Doom: How Narrative Outpaces Nuance

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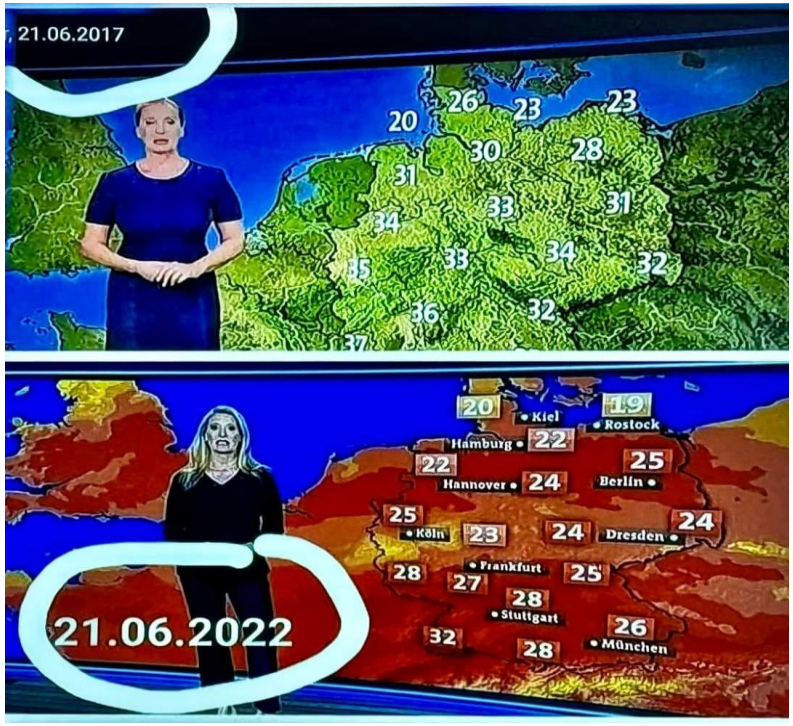
Bjorn

:

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

The impact of media bias in reporting can be very misleading

- These graphs have similar data from different years gathered from the Government weather stations
- These German temperatures are similar, but the media message signaling is slanted and different.
- The time magazine pictures also show similar biased reporting over dramatizing reality.



Reference graph from Germany Met.



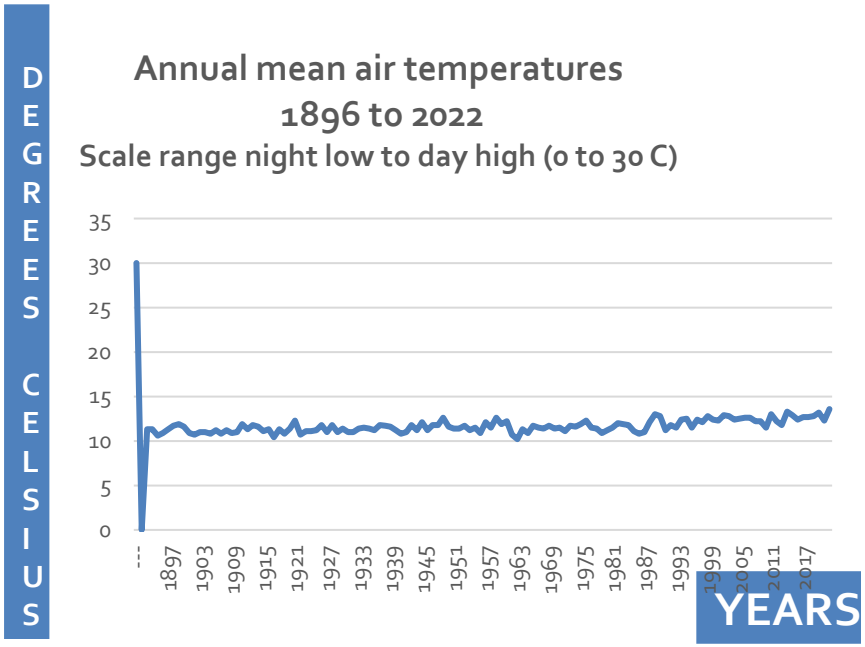
Bjorn Lomborg on X: "UN routinely warns us that we have just a few years left until catastrophe: In 1982, Tolba, head of UN Environment Programme told the world that it had just 18 years before an environmental catastrophe as irreversible as any nuclear holocaust https://t.co/8wyP10fJOn https://t.co/zDYD8ldJo5" / X (twitter.com)

https://redisthenewcool.wordpress.com/2025/08/27/trumps-climate-reset-exposing-the-great-globalist-fear-machine/

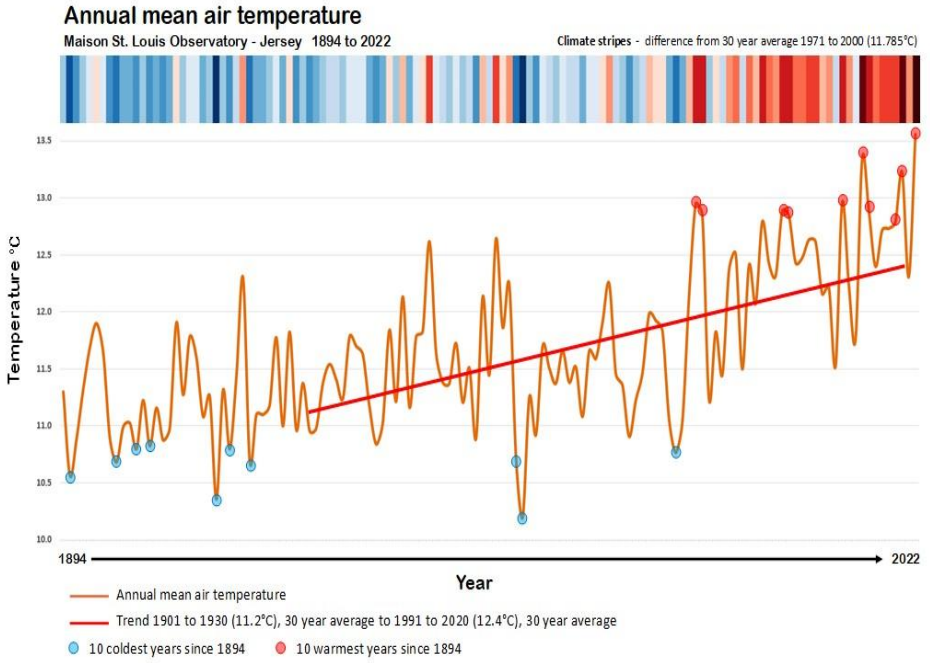
2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

The impact of changing the scale of the graph can be very misleading – perspective is important

- These graphs have the exact same data gathered from the Jersey Government weather station
- However, the scales are different with the left graph ranging from 0 °C to 30 °C, which is day to night seasonal ranges experienced in Jersey; the right graph obtained from the Meteorology Department – Jersey Met., ranges from only 10 °C to 13.5 °C visually magnifying these changes
- Scales chosen can magnify change and mislead the viewer
- Picking proper scales to allow changes to be put in perspective is very important



Reference data from Jersey Gov. weather station

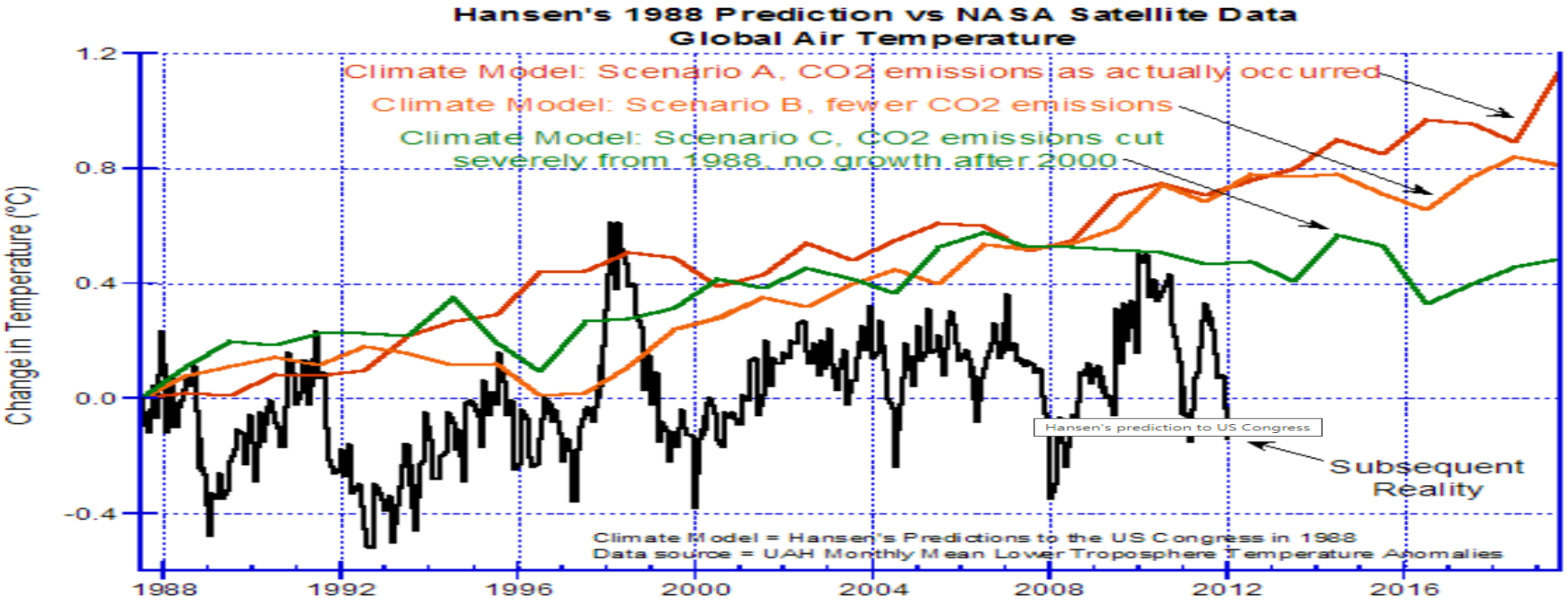


Reference graph from Jersey Met.

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

Graph showing model predictions versus actual results

Actual changes in temperature are occurring well below climate model predictions



IPCC Climate Models Aren't Useful for Forecasting

A new study published in the journal *Science of Climate Change* examines the history of back-cast tracking of climate conditions and predicted outcomes from the climate models used by the U.N. Intergovernmental Panel on Climate Change (IPCC) and reports they regularly produce outcomes and scenarios based on the claim that greenhouse gas concentrations drive climate changes that don't match measured or experienced conditions. **Source:** Science of Climate Change

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

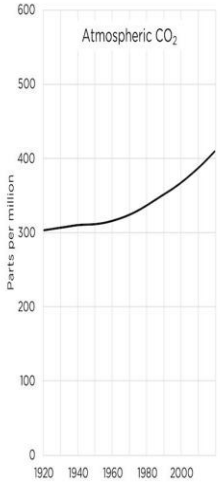
1) Climate related deaths have decreased significantly since 1920

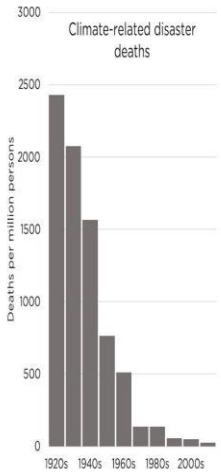
Climate-related disaster deaths have declined 97.5% over the century (1920-2025). Richer, smarter, and more resilient societies reduce disaster deaths. This swamps any potential climate signal. Bjorn Lomborg

If there are any negative climate changes influenced by fossil fuels, they are greatly outweighed by the benefits of FFs, including how they protect us from climate danger.

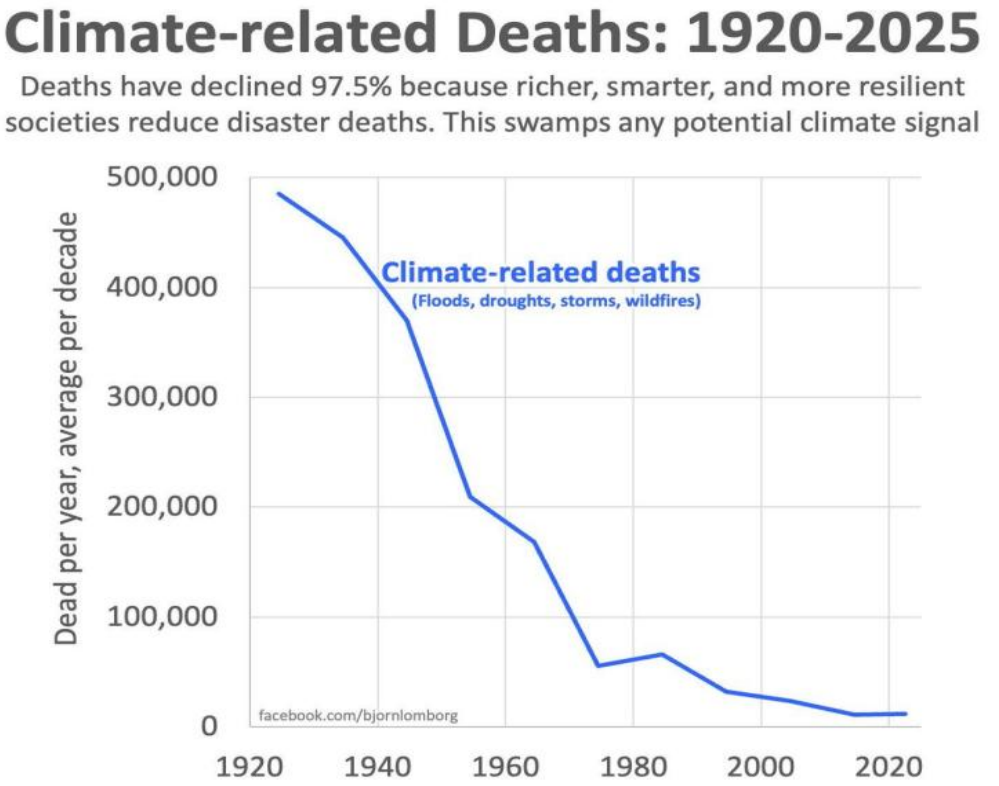
It is likely that fewer people died as a result of extreme weather events and temperatures in 2025 than at any time in history for which there is hard data

- "This climate crisis is a fossil fuel crisis."
  - Gavin Newsom, September 20, 2023





Sources:
UC San Diego - The Keeling Curve, https://keelingcurve.ucsd.edu/ EM-DAT, CRED / UCLouvain, Brussels, Belgium, https://www.emdat.be/
Maddison Database 2010, https://www.rug.nl/ggdc/historicaldevelopment/maddison/releases/maddison-database-2010
World Bank Data, https://data.worldbank.org/indicator/SP.POP.TOTL



2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

1) Alex Epstein: 25 facts about energy and climate

Fossil fuels make us far safer from climate

1) Annual deaths from climate-related causes (extreme temperature, drought, flood, storms, wildfires) have declined 98% over the last 100 years, even as CO2 levels have risen.

2) Even though Earth has gotten 1°C warmer in the last century, deaths from cold outnumber deaths from heat by 5-15x. Cold is more dangerous than heat on every continent. Even in especially hot countries such as India, cold-related deaths significantly exceed heat-related deaths.

3) Near-term global warming is expected to decrease temperature-related mortality, avoiding more cold-related deaths than it will cause heat-related deaths, as it has over the past two decades

4) Despite many incentives for global climate-related damages to go up—preferences for riskier areas, government bailouts—GDP-adjusted climate-related damages are flat

Global fossil fuel use is increasing, and the energy-poor world needs even more to power life-saving machines.

5) Fossil fuel use is 80% of the world's energy and still growing despite 100+ years of aggressive competition and 20+ years of political hostility and massive solar and wind favouritism

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

1) Alex Epstein: 25 facts about energy and climate

6) There is a desperate need for far more of the global-scale cost-effective energy that only fossil fuels can provide near term: ⅓ of the world uses wood and animal dung for heating and cooking, and 3 billion people use less electricity than a typical American refrigerator

7) Since 1980, India's fossil fuel use has increased by >700% and China's by >600%. In the same time frame, India's life expectancy increased by 17 years and China's by 14.

8) China, which uses mostly coal to produce "green" tech, has over 300 planned new coal plants designed to last over 40 years.

9) Even nations with little or no fossil fuel resources have used fossil fuels to develop and prosper. E.g., South Korea (83% fossil fuels), Japan (85% fossil fuels), Singapore (99% fossil fuels)

The "green" movement catastrophizes the future climate side effects of fossil fuels, which are completely manageable.

10) Climate warming is concentrated in colder areas of the world (such as the Arctic), during colder times of day, and colder seasons. (This means that future warming will occur more in cold situations where it saves lives than in hot situations where it causes problems.)

11) The most extreme UN sea level rise projections are just 3 feet in 100 years. (This is a completely masterable level.) There are already 100 million people on Earth living below high-tide sea level.

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

1) Alex Epstein: 25 facts about energy and climate

12) Mainstream estimates say hurricanes will be less frequent and between 1-10% more intense at 2° C warming. (This is not at all catastrophic if we continue our fossil-fueled climate mastery.)

13) The latest data on global hurricane frequency and intensity (Klotzbach et al, 2022) shows no significant alarming upward trend.

14) It is common for leading media outlets to deliberately misrepresent the flat long-term hurricane trend. E.g., the New York Times cherry-picked a starting point—the low point of 1980—to make a flat trend seem upward.

15) The National Oceanographic and Atmospheric Administration and the Intergovernmental Panel on Climate Change have made the point that any increases in hurricane frequency in records are likely due to increasing reporting, not actual frequency.

16) The US Annual Heat Wave Index from the EPA has said, “Longer-term records show that heat waves in the 1930s remain the most severe in recorded U.S. history.” (Today's “reporting” would give you no indication that this is the case.)

17) Mainstream science is unanimous that the warming impact of CO2 diminishes (“logarithmically”) as it increases in concentration. Every new molecule of CO2 we add to the atmosphere has less of a warming effect than the previous one.

18) Battery backup for solar and wind is so expensive that just 3 days of global backup using Elon Musk’s Megapacks would cost $570 trillion, about 6X global GDP.

19) Solar and wind never provide the exact amount of electricity that is needed. Electricity requires exactly matching supply and demand, and solar and wind on their own exactly match supply with demand 0% of the time.

20) Even mild increases in demand for critical minerals involving solar and wind have led to scaling issues and cost increases. (What will the demand increases of "net zero" plans lead to?)

21) "Net zero" plans to scale solar and wind involve more than doubling the supply of half a dozen major mined materials per decade—even though they can't point to any examples of any major mined mineral doubling that fast, even with pro-development governments.

22) 6 days after pledging to go all-EVs, California Governor Gavin Newsom told residents there wasn't enough power to charge their EVs.

23) 80% of the world's energy is not electricity. For non-electricity energy, solar and wind either can't do what fossil fuel can—e.g., airplanes or cargo ships—or are far more expensive.

24) Our dependence on China for key components of solar, wind, and batteries is far greater than our dependence on Russia for fossil fuels.

25) Far from out-competing fossil fuels, solar and wind are growing fast only when given massive government preferences—mandates, subsidies, and no penalty for unreliability

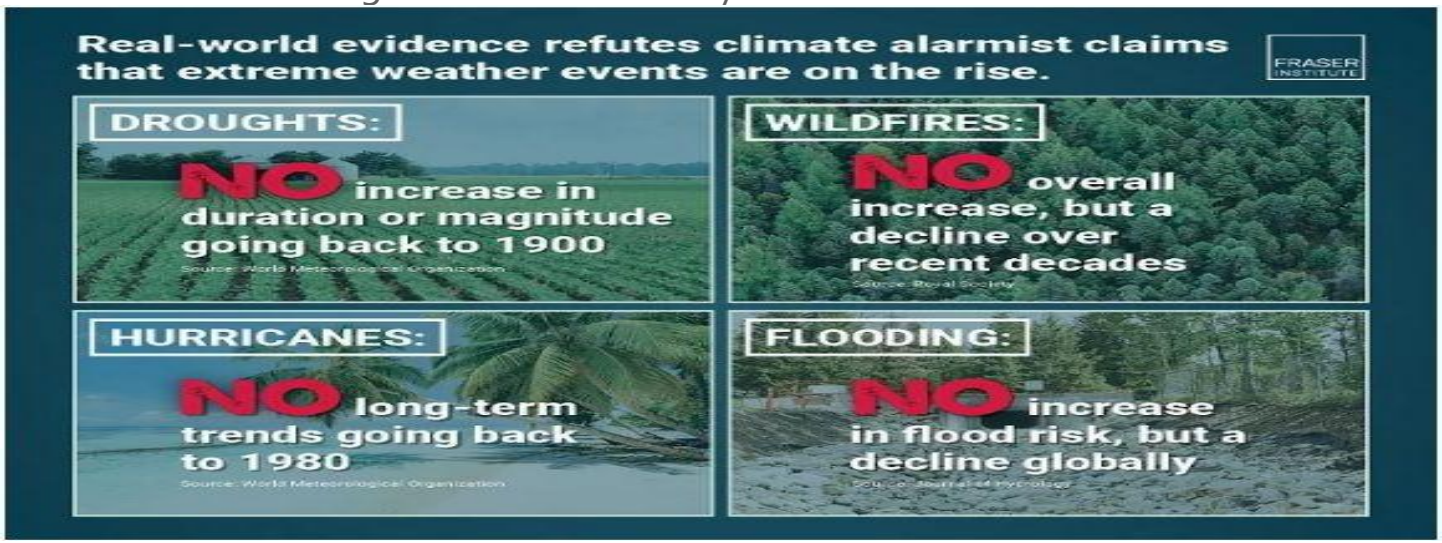
Unreliable solar and wind are not anywhere near able to replace fossil fuels.

https://financialpost.com/opinion/global-warming-policies-hurt-poor Bjorn Lomborg

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

1) Weather related crises have not increased with increases in CO_2

- Assertions are made claiming that weather extremes are increasing in frequency and severity, spurred on by humanity's greenhouse gas emissions. However, many types of extreme weather show no signs of increasing and in some cases are decreasing. Drought has shown no clear increasing trend, nor has flooding. Hurricane intensity and number show no increasing trend. Globally, wildfires have shown no clear trend in increasing number or intensity



Gregory Wrightstone https://youtu.be/aT2SvIAkE5s; The Climate Crisis Scam
Extreme Weather and Climate Change (fraserinstitute.org)
With Trump soon to be inaugurated, climate scientists declare SUDDEN END to "climate emergency" narrative
Climate Change Myths Part 1: Polar Bears, Arctic Ice, and Food Shortages
https://youtu.be/GctDsMw8N4Y?si=LwJTarZXSw20h_u3
https://wmbriggs.substack.com/p/climate-attribution-studies-cant-be-trusted-new-paper
Jonathan Cohler **https://youtu.be/hBMwbEgtECo Challenges that mankind's CO_2 emissions are causing a climate crisis**
(15606) Steve Gruber May 2026 – YouTube Interview discussing fallacy of the Climate Crisis claims

2) Are warmer temperatures and higher CO_2 levels causing a climate crisis?

1) Weather related crises have not increased with increases in CO_2

- **Climate change is very complex and driven by many factors, including oscillations in the planetary orbit, ocean circulation, clouds and other factors.**
- **Ice Ages were likely driven by variations in the Earth's orbit and Sun's incident angle (Milankovitch cycles)**
- **The Earth's climate has been warming since the last ice age.**
- **Hurricanes, tornadoes, heat waves, forest fires and ocean acidification are not increasing.**
- **Dangerous weather events happen. Fix the effect with more emphasis on adaptation and resilient infrastructure**
- **The Great Barrier Reef sees third record year of coral growth**
- **Projections of future climate-based disasters are proving wrong, based on faulty climate models.**
- **Extreme weather events show no long-term trend that can be attributed to human influences or CO_2**

Reference books: Hot Talk, Cold Science: Chapter 7 and Unsettled Chapters 5, 6, 7

Dr. R Lindzen https://wattsupwiththat.com/2022/12/04/mit-climate-scientist-dr-richard-lindzen-rejects-climate-change-as-a-quasi-religious-movement-predicated-on-an-absurd-scientific-narrative/

Book An Assessment of the Conventional Global Warming Narrative

Fake Invisible Catastrophes and Threat of Doom: Chapters 2, 9, 10

Climate at a Glance: Sections 1,2,3 Inconvenient Facts: Section II pages 57 to 112

Videos: John Christy: Climate models for politics?..."A bridge too far" – YouTube

Natural Climate Variability. Does CO_2 Have Any Effect? | Prof. Judith Curry – YouTube

https://financialpost.com/opinion/lawrence-solomon-finally-its-safe-for-the-whistleblowers-of-corrupted-climate-science-to-speak-out

(5479) Unsettled: Climate and Science | Dr. Steven Koonin | EP 323 – YouTube

www.co2learningcenter.com

Inconvenient Facts: The Science That Al Gore Doesn't Want You to Know

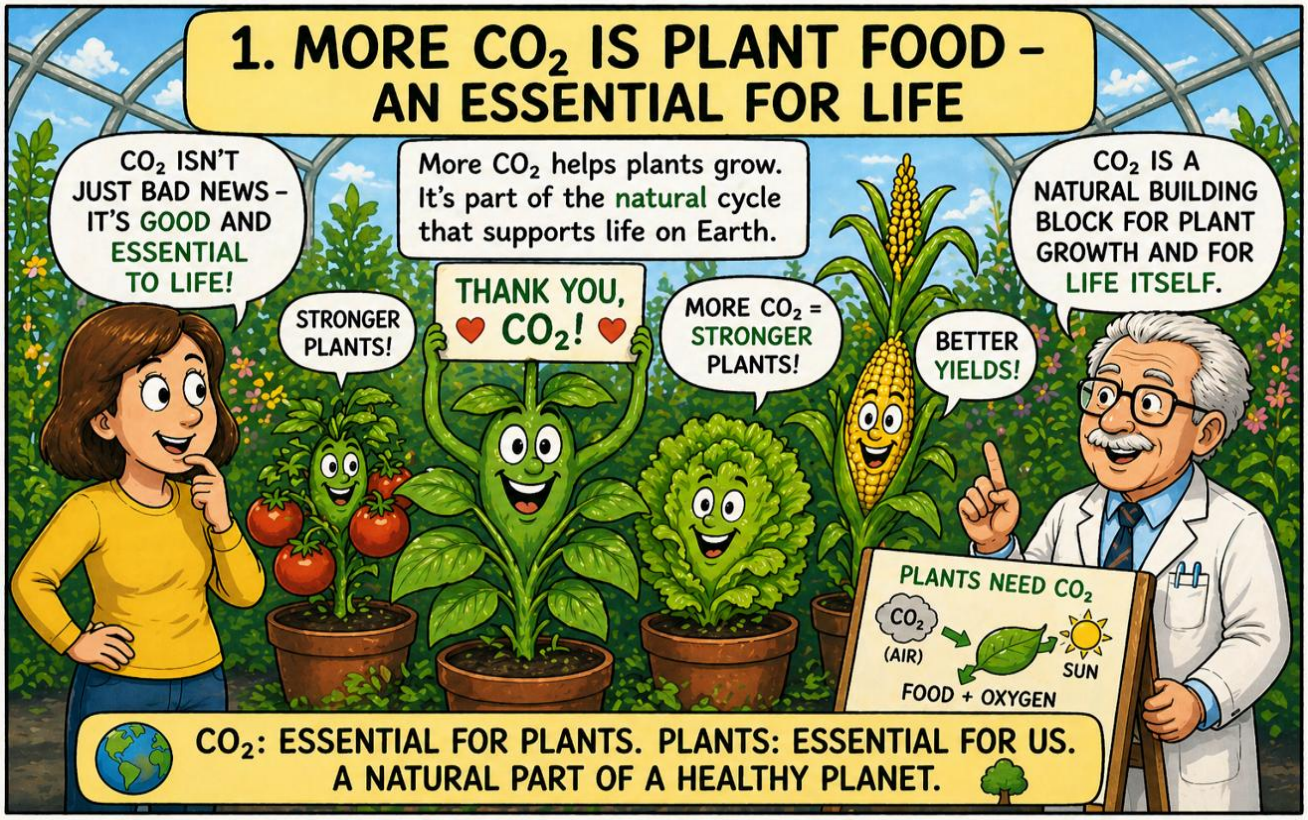
Feed | CO_2 Coalition Discussion Group Climate Change and Extreme Weather Events Jim Steele

News about More Research Undermines Climate Catastrophe ...

Global Warming and CO_2
3 of 11 Questions

Question 3

Are higher CO_2 levels and warmer temperatures good or bad?



3) Are higher CO_2 levels and warmer temperatures good or bad?

CO_2 is essential for life on Earth

The **CO_2 Coalition** includes scientists and researchers from across the globe who are devoted to educating the public and policymakers about the *benefits* of CO_2. Not only is the naturally occurring substance not a pollutant, but it's in fact the great elixir of life on Earth.

The coalition has a long and copious list of **"facts and data"** highlighting the benefits of CO_2 that do not fit in with the media messaging.

The regulatory attack on CO_2 is essentially an attack on humanity itself. Dr. William Happer, a retired Princeton University physicist and founder of the CO_2 Coalition, explains why: "Carbon dioxide is at the basis of life on Earth." Happer said in an **interview** with Freedom Research. "We live because plants are able to chemically transform carbon dioxide and water into sugar and a byproduct is the oxygen that we breathe, and so we should all be very grateful that we have carbon dioxide."

"Life would die without carbon dioxide," he explained.

Happer and other members of the CO_2 Coalition view the recent warming trend as a **natural response** to the planet's emergence from the Little Ice Age beginning in the 1800s.

"Gregory Wrightstone, author of Inconvenient Facts, documented the same truth: CO_2 is not a pollutant but plant food; more CO_2 has greened the planet by 14% since 1980. Extreme weather deaths have plummeted 98% since the 1920s. Hurricanes, droughts, and fires fluctuate naturally. The models predicting catastrophe failed every test of time. The facts—those stubborn, empirical, non-grant-funded facts—proved the "crisis" was manufactured."

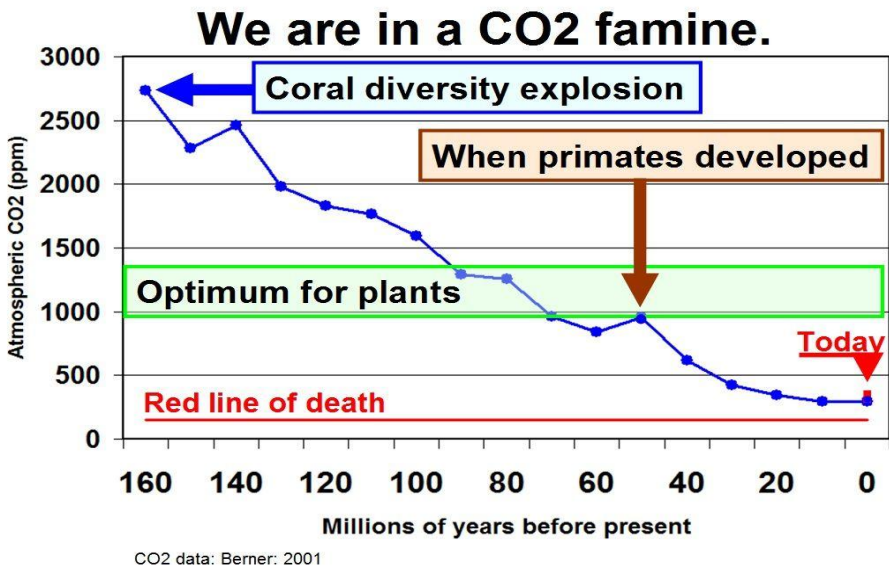
A Thanksgiving Tribute to Global Warming and CO_2 - CO_2 Coalition

3) Are higher CO_2 levels and warmer temperatures good or bad?

Test shows improved tree growth with higher CO_2 levels

- **Greenhouse gases keep the world warm; they absorb heat and radiate it back to Earth, warming the surface and atmosphere; humans could not exist on Earth without this warming effect.**
- **When CO_2 increases, plants thrive,** becoming larger and able to absorb more CO_2.
- These trees were grown under the same conditions except with varying CO_2 atmosphere levels.
- A standard procedure for greenhouse growers is to increase the level of CO_2 to 800 to 1,200 ppm.
- **Improving Tree Growth With Increasing CO_2 Levels Optimum plant growthCO_2 levels 1000 – 1400ppm**





Reference book: Fake Invisible Catastrophes and Threats of Doom page 54

https://youtu.be/PblYr-KjOVY

Trees Get Bigger Around the World Thanks to Higher CO_2 Levels

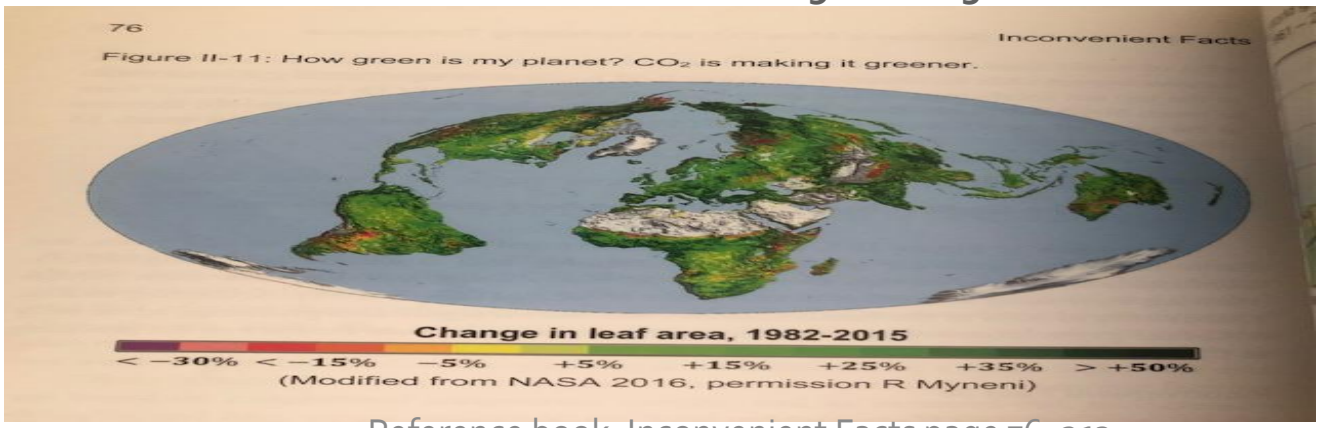
https://www.nbcnews.com/world/latin-america/amazon-rainforest-giant-trees-bigger-carbon-dioxide-climate-change-rcna234064

3) Are higher CO_2 levels and warmer temperatures good or bad?

Between 1982 to 2015 the world has been greening with increases in CO_2

- NASA satellite images show vast regions with increased growth due mainly to higher levels of CO_2, as increased CO_2 levels mean plants require less water to grow. Examples are the greening of the lower Sahara and the retreating deserts in China. More CO_2 has resulted in more and more rapid plant growth with significant greening. Since 1980, the semi-arid areas have greened by 40%
- Global warming increases cold temperatures much more than warm temperatures. Temperate and Arctic regions are affected much more than tropical areas, where temperatures have varied little
- As CO_2 continues to rise, global plant growth will also increase. Forests have expanded globally.

Increases in Leaf Areas between 1982 -2015



Reference book: Inconvenient Facts page 76, 213

Source: Modified from NASA 2016, permission R Myneni

Reference book: Cool It Page 12; https://youtu.be/M8iEEO2UIbA William Happer

Study finds CO_2 is greening the earth and making vegetation flourish worldwide (westernstandard.news)

New study finds that CO_2 is increasing the rate by ... - CO_2 Coalition

peter clarke co2 and planet greening **NASA-acknowledged greening of Earth.**

CO2, the miracle molecule

- CO_2 is a miracle molecule that turns sunlight into food, oxygen into breath and a rocky planet into a blue-green paradise: CO_2 + water + sunlight = sugar energy + oxygen.
- Through photosynthesis, it has since transformed the whole world. The rise of DNA and all multicellular organisms, including all animals, traces back to CO_2's astonishing role in building the carbon backbone of life. Without CO_2 there would be no photosynthesis, no oxygen, no food chains and no us.
- The early cyanobacterial organisms floating in huge mats in the primordial oceans, released so much oxygen that it triggered the Great Oxidation Event. As oxygen permeated the oceans, it began reacting with dissolved iron in the oceans, forming the vast banded iron formations, which are now the source of most of the world's iron ore reserves and current steel production.
- CO_2 powers the entire food web through photosynthesis and plays a foundational role from the planet's earliest days. This is its deep, wonder-filled contribution to the creation of free oxygen and rise of life.
- Without CO_2, Earth would most likely still be a lifeless world with a toxic atmosphere and lifeless oceans loaded with dissolved iron.

3) Are higher CO_2 levels and warmer temperatures good or bad?

Increases in CO_2 have very beneficial effects Peter Clarke on CO_2 and the greening planet

Positive Impacts of Added CO_2

- CO_2 is the foundation for life on Earth and the chief source of photosynthesis. The human species evolved in an atmosphere not unlike today. Our early ancestors – the Great Apes and Old World Monkeys – evolved around 25 million years ago when CO_2 was 300 – 500 ppm and life was thriving during the warm, ice-free Miocene. Homo sapiens first emerged when CO_2 was cycling from 200 to 300 ppm. Now we are back to 427 ppm, a level that is greening the planet and boosting crop yields.
- Global crop yields have risen 15 – 20 % since 1960, almost entirely attributed to CO_2 fertilisation (Idso, 2013, IPCC AR6 WG1 Ch5). Increased CO_2 over the past century has supported this explosion in plant life and available plant food from booming agriculture.
- There has been a more than 18% increase in the global leaf area in 40 years (from CO_2 fertilisation). Warmer, more balmy temperatures are also lengthening the growing seasons. Every 100 ppm increase in CO_2 typically boosts plant growth by 25-50 % in all non-water-limited conditions. My analysis draws on 776 studies from 1993-2019, clearly showing that an increased CO_2 level delivers an increase in global biomass.
- This is an astonishing windfall for life on earth, chiefly from CO_2, a trace gas at 420 ppm (or 0.04%). It also has a secondary benefit for life by contributing to baseline levels of warmth around the planet, along with water vapour and other trace gases with similar properties, like methane (1,920 – 1830 parts per billion). However, this is not enough to be the defining control knob for changing the climate around the world.

3) Are higher CO_2 levels and warmer temperatures good or bad?

Increases in CO_2 have very beneficial effects Peter Clarke on CO_2 and the greening planet

- These are the reasons why commercial greenhouses pump CO_2 to 1000-1500 ppm. It ensures that crop yields jump by 20-70% depending on the crop. If 1000 ppm is good for tomatoes, why is 420 ppm an emergency for the planet?
- Water vapour and cloud cover are the mainstays of rainfall and the entire hydrologic cycle, returning water as precipitation to rivers, lakes and maintaining the oceans (where 78% of rain ends up).
- The world population has more than doubled since 1970, going from roughly 3.7 billion to over 8 billion by 2022-2025. The population tripled since 1950. This massive global expansion was supported by increased food production and agricultural advancements, known as the Green Revolution. Famine deaths have also plummeted and CO_2 deserves much of the credit.
- CO_2 also delivers the calcium carbonate in water to produce exoskeletons for all shellfish. This is the miracle of CO_2, enabling green chlorophyll plants and algae to convert sunlight into food energy and oxygen. In this way, CO_2 supports every food chain on earth.
- Science shows that 500-1000 ppm of CO_2 plus 1-2 ° C extra warming hits the sweet spot for all terrestrial and marine life, including human civilisation. We should be managing adaptation and energy abundance. Higher CO_2 gives a net benefit to life on Earth. This means the current carbon-neutral policy of driving down CO_2 levels - the purpose for net-zero - is anti-life.

CO_2 Miracle molecule pic.x.com/JYH9Jk9DTg

Warming oceans control the release of soluble CO_2 pic.x.com/1dAdGWEjhH

Global mean temperatures pic.x.com/bdoTcajRBg

Are early warning fears about rising temperatures misjudged? pic.x.com/kDyalo4PZ7

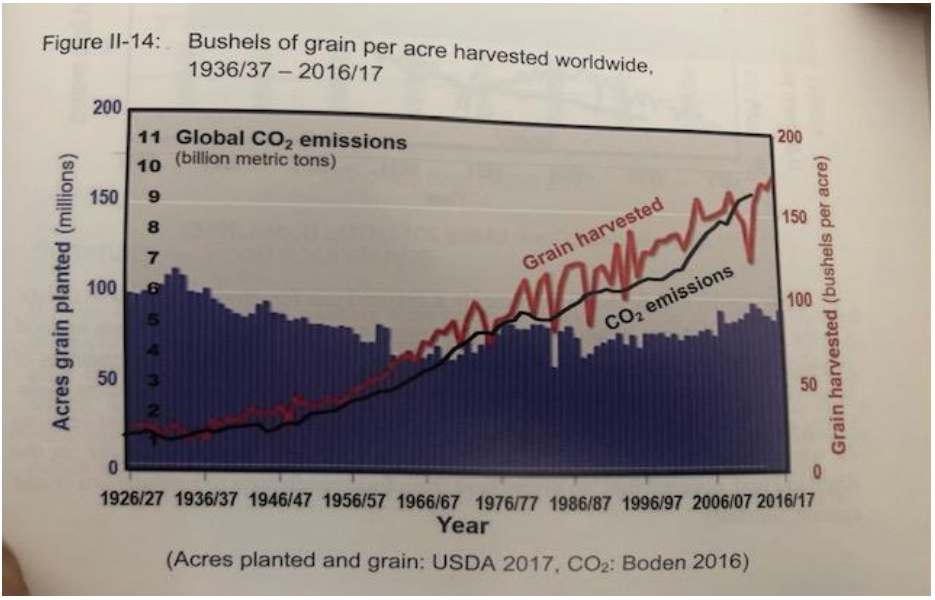
Earth is a dynamic, resilient system. impacted by the Milanković cycles pic.x.com/CMQgcdXTQR

3) Are higher CO_2 levels and warmer temperatures good or bad?

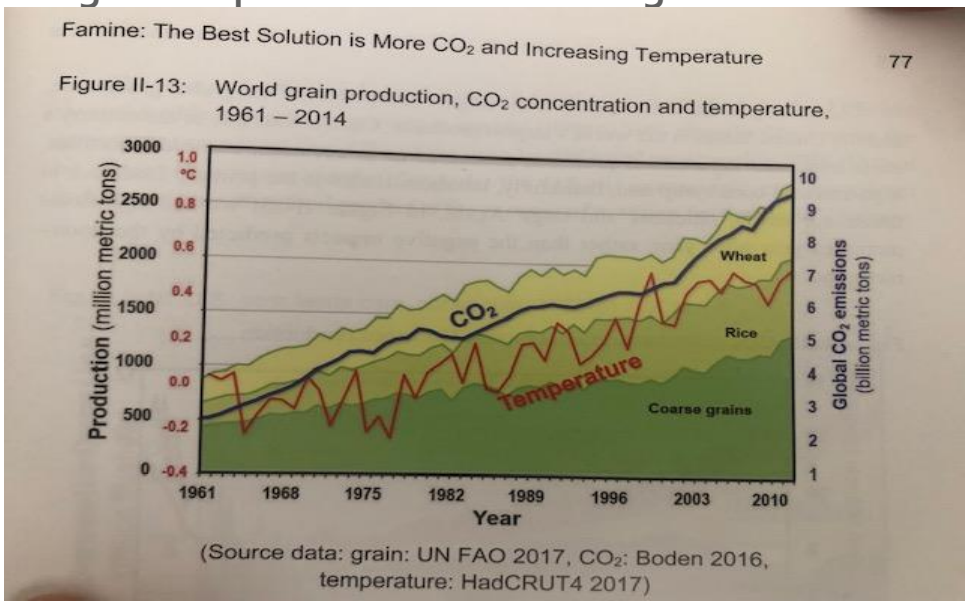
Crop yields and per acre crops improve with higher CO_2 and temperature levels

- Increases in CO_2 benefit crop production as CO_2 works as an aerial fertilizer.
- Bushels of grain per acre harvested worldwide have improved with increased CO_2 emissions.
- Global warming lengthens growing seasons, reduces frost events and adds available farmland

Increases in Bushels of Grain Harvested Worldwide



Higher Crop Yields With Increasing CO_2 Levels



It Is Easy Going Green The value of added CO_2

Reference book: Inconvenient Facts page 77, Climate at a Glance page 6,7

Source: Acres planted and grain USDA 2017, CO_2 Boden 2016

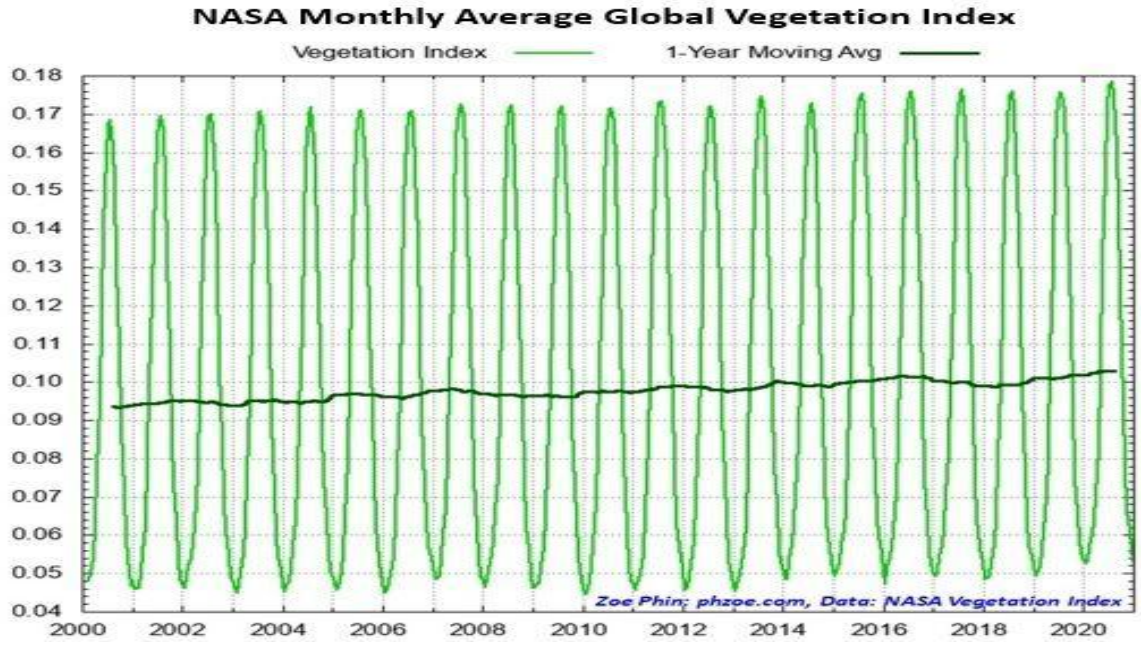
Crop increases continue https://thebreakthrough.org/issues/food-agriculture-environment/are-u-s-crop-yields-declining

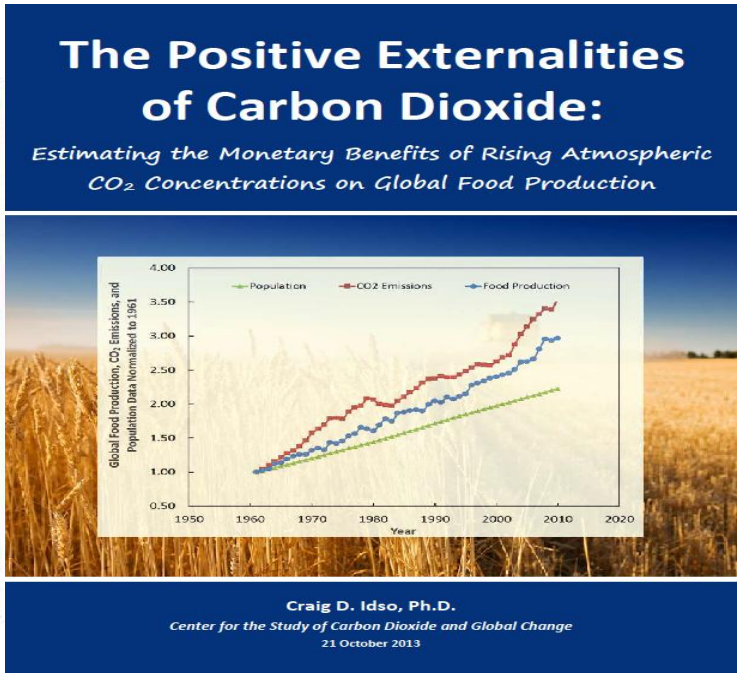
https://co2coalition.org/2026/06/09/indias-record-crops-reject-food-warming-alarmism/

3) Are higher CO_2 levels and warmer temperatures good or bad?

NASA shows increased vegetation with higher CO_2 ; other positive aspects of CO_2

- NASA`s Earth Observatory and its Terra satellite show that the biosphere has expanded by 10 % since 2000.
- The Vegetation Index is an empirically observed indicator of global leaf surface area and photosynthetic activity, while the sinusoidal time dependence shown in the time series below is indicative of the Solar Seasonal Cycle.
- Venter et al (2018) likewise showed that the Sahara Desert shrank by 8% (700,000 km2) since the 1980s and a recent Harvard study suggests that upwards of 70% of the biosphere's recent expansion is due to the CO_2 Fertilization Effect (https://lnkd.in/di3Bud7p





3) Are higher CO2 levels and warmer temperatures good or bad?

Tests show improved crop yields with increased CO2 for plants

- Crop yield growth improved with 300 ppm more CO2 based on 3,586 experiments on 549 plant species. These tests show that plants benefit from higher CO2.
- **The degree to which plants respond to more CO_2 varies, but it is always positive.** An increase in CO_2 to 800 parts per million (ppm) or so—more than double the current atmospheric concentration—increases yields by 10% to 100%.
- In greenhouse farming, carbon dioxide levels are elevated to 1,000 ppm or so to increase the yields of tomatoes and cucumbers by 20% to 40%. Plants, such as corn, sugarcane, and millets, also benefit from higher atmospheric CO_2, whose positive effect on them is even more evident in the presence of drought. Vijay Jayarai

Improving Crop Yield With Increased CO2 Levels



Reference book: Inconvenient Facts page 20

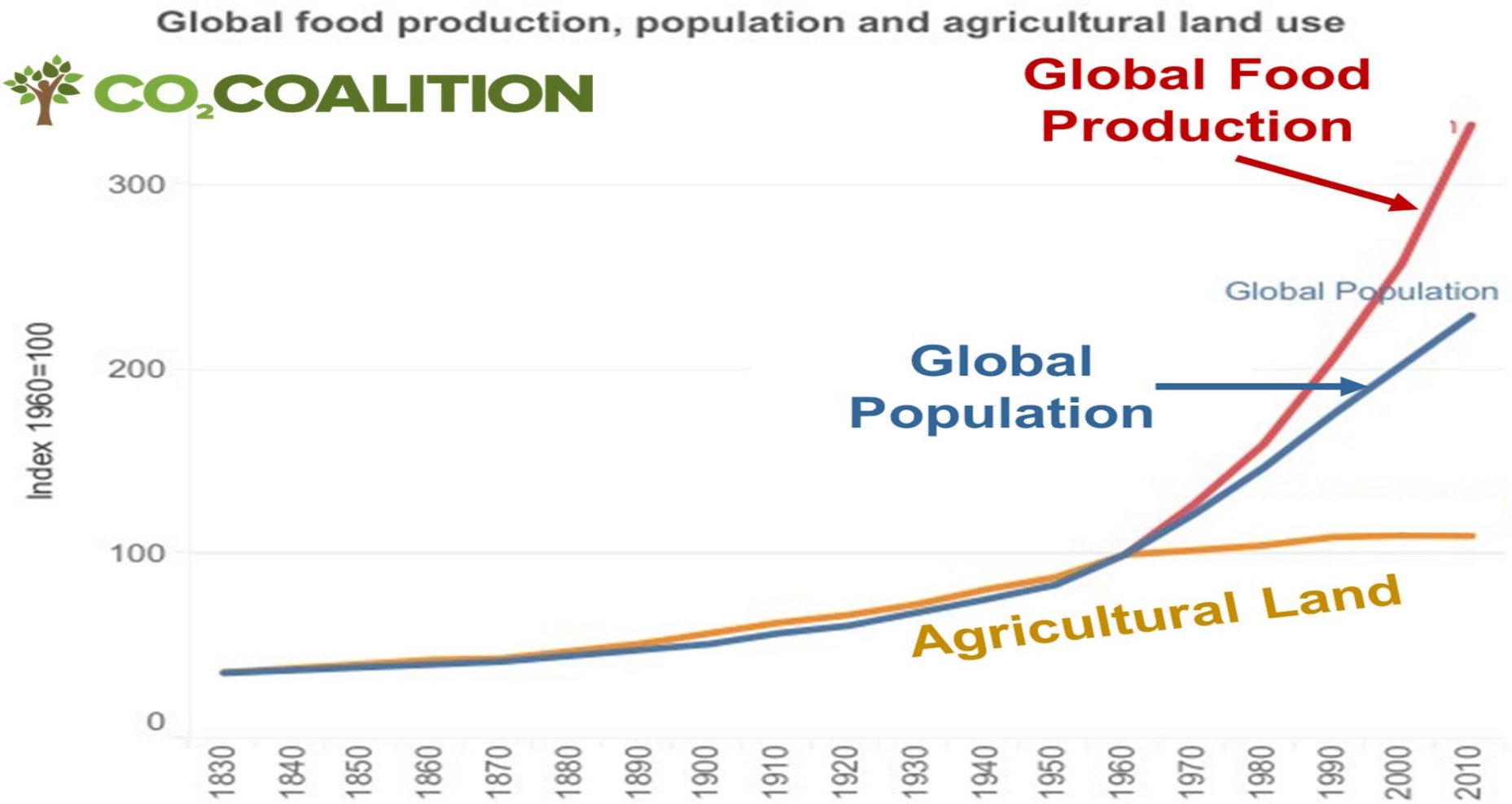
Source: Idso2013, courtesy Monckton 2017

https://youtu.be/pHCCE-sw_Sc William Harper discussion on CO2

3) Are higher CO_2 levels and warmer temperatures good or bad?

Tests show improved crop yields with increased CO_2 for plants

Improving Crop Yield With Increased CO_2 Levels

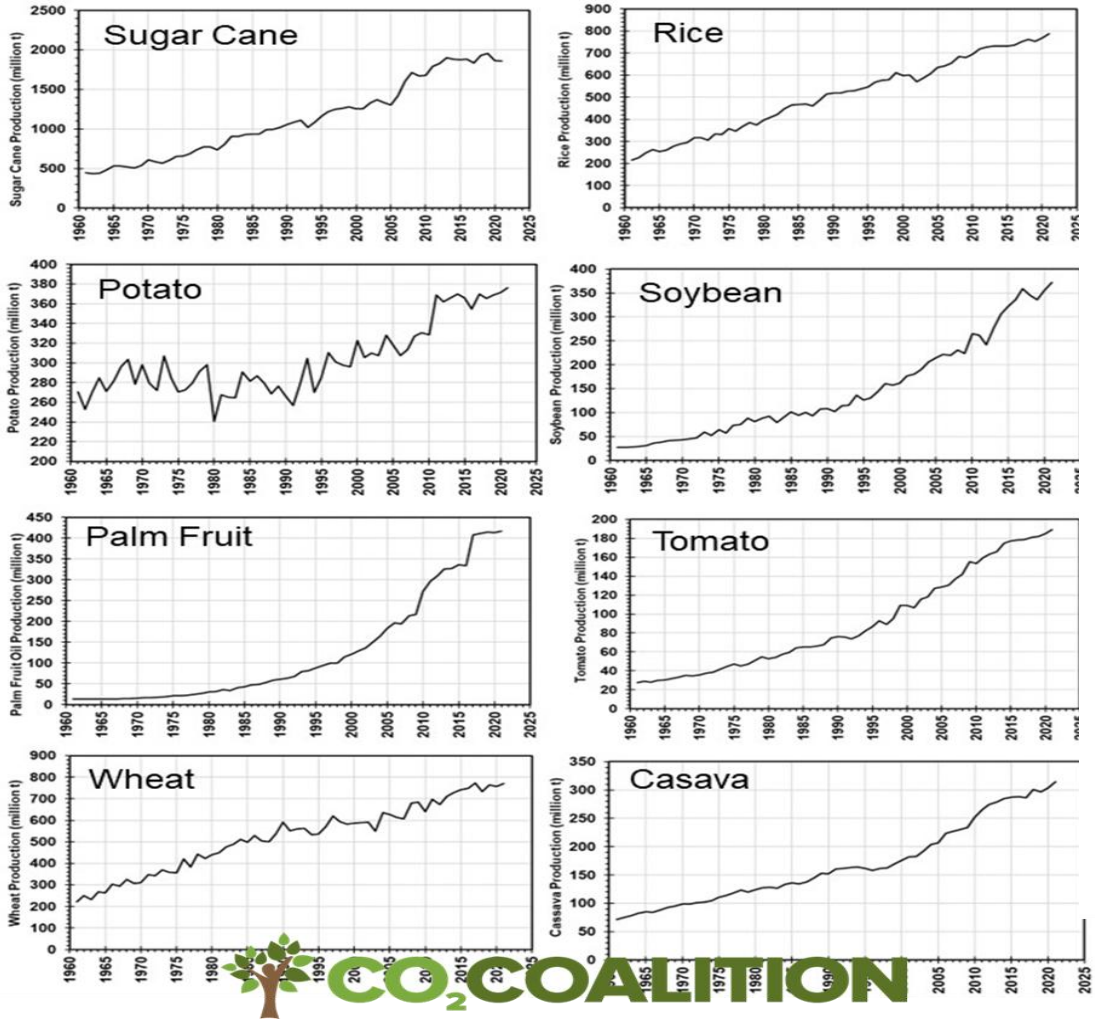


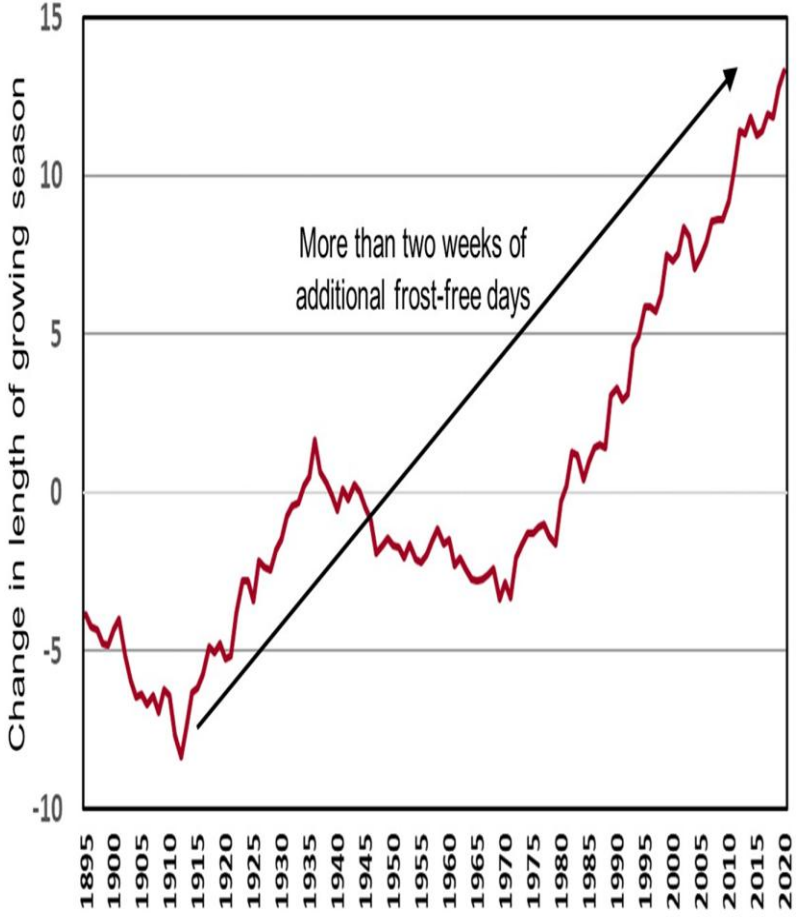
Wrightstone Ojai Presentation for Distribution.pdf

3) Are higher CO_2 levels and warmer temperatures good or bad?

Tests show improved crop yields with increased CO_2 for plants

Improving Crop Yield With Increased CO_2 Levels





CO_2COALITION

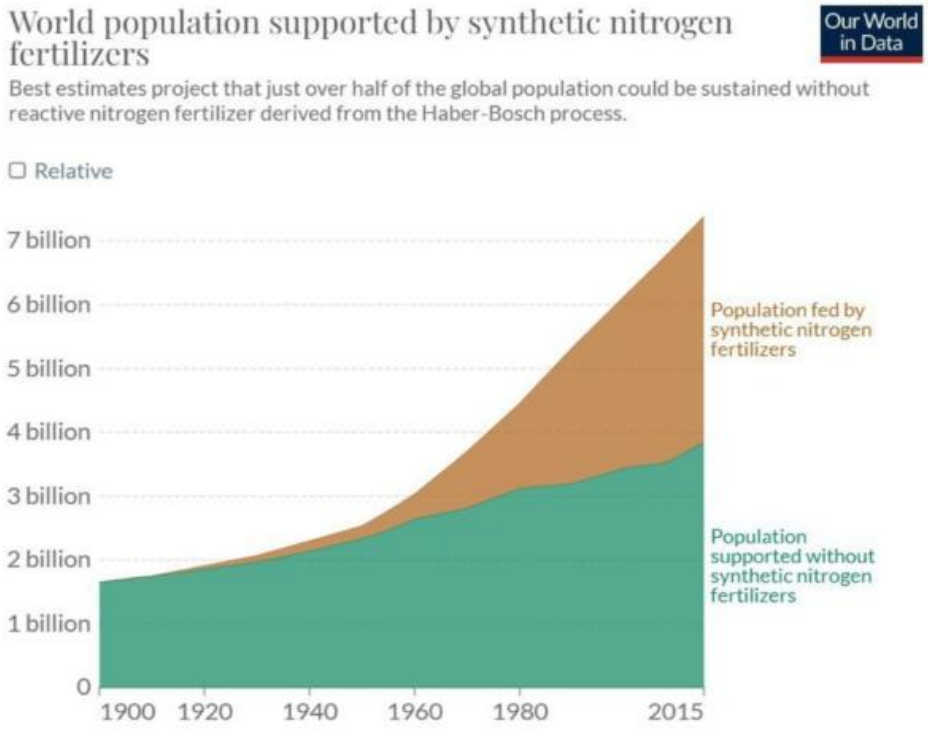
CO_2COALITION

[Wrightstone Ojai Presentation for Distribution.pdf]

3) Are higher CO_2 levels and warmer temperatures good or bad?

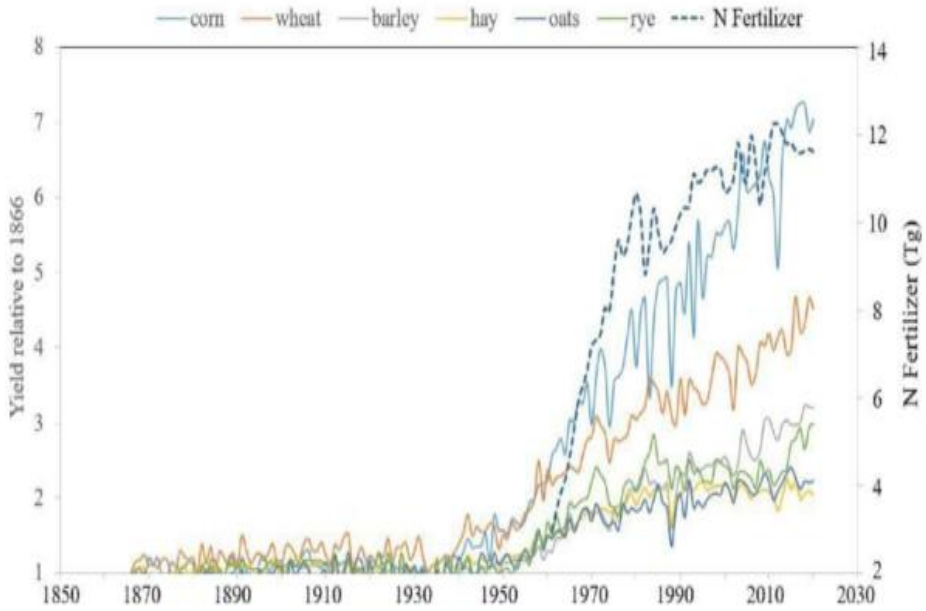
Natural gas use for synthetic fertilizers have made a very positive impact

- Synthetic fertilizers, which are derivatives of natural gas, are responsible for nearly half the world's food production today.
- The world's population is increasingly dependent on synthetic fertilizers, a derivative of gas fossil fuels.



frost events and adds available farmland

Synthetic fertilizers (derivatives of natural gas)



Reference book: Inconvenient Facts page 77, Climate at a Glance page 6,7

Source: Acres planted and grain USDA 2017, CO_2 Boden 2016 (Source: ourworldindata.org)

3) Are higher CO_2 levels and warmer temperatures good or bad?

Tests show positive aspects of CO_2 on humans

- **CO_2 is invisible and odourless.** Pollution we see from vehicles, coal mines etc, comes from other associated pollutants which can and do need to be removed and not emitted to the atmosphere.
- "In 1904, Christian Bohr, a Danish biochemist, discovered that carbon dioxide (CO_2) facilitates the release of oxygen (O_2) into our cells. The oxygen is transported through our body by the haemoglobin in our red blood cells. CO_2 acts as a catalyst for haemoglobin to release oxygen for use by our bodies. When the level of CO_2 in our body is too low, the bond between oxygen and haemoglobin increases, making it more difficult for oxygen to get into the cells. Poor physical oxygen supply leads to many health problems in our bodies.
- In 2017, Dr U.P. Singh at India's Suharto Medical College discovered that there are relationships between yoga breathing and CO_2. He wrote that CO_2 stimulates the Vagus nerve. He discovered that increased levels of CO_2 in the blood can activate the Vagus nerve and slow down the heart rate, acting as a "natural sedative, calming the irritability of the brain's centres of consciousness and promotes using logic, reason, and common sense. Without CO_2, we become anxious, depressed and angry.
- Trials of CO_2 therapy in epilepsy patients showed that fewer seizures occurred. Yandle Henderson, a Yale physiologist, found that a mixture of oxygen and 5% CO_2 can produce excellent results in patients with asthma, stroke, pneumonia, heart attack and suffocation attacks in newborns.
- CO_2 contributes to the expansion of smooth muscle tissue and the regulation of the cardiovascular system. CO_2 is converted into carbonic acid and is therefore an important regulator of the alkali-acid balance in the body. In addition, it plays an important role in the functioning of the digestive system."
- US Navy submariners breathe 3000 to 5000 ppm of CO_2 for 3-month tours with no reproducible evidence that it makes any difference to their health or mental acuity. There is no reason it should, since their normal exhaled breath is 40,000 to 50,000 ppm CO_2. plus, CO_2 < 100,000 ppm is not toxic.

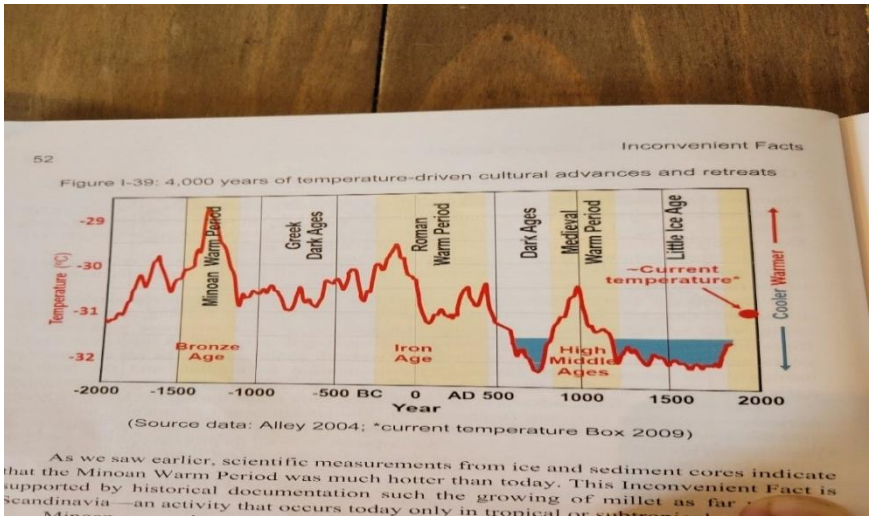
Acute Exposure to Low-to-Moderate Carbon Dioxide Levels and Submariner Decision Making Christopher D. Rodeheffer; Sarah Chabal; John M. Clarke; David M. Fothergill

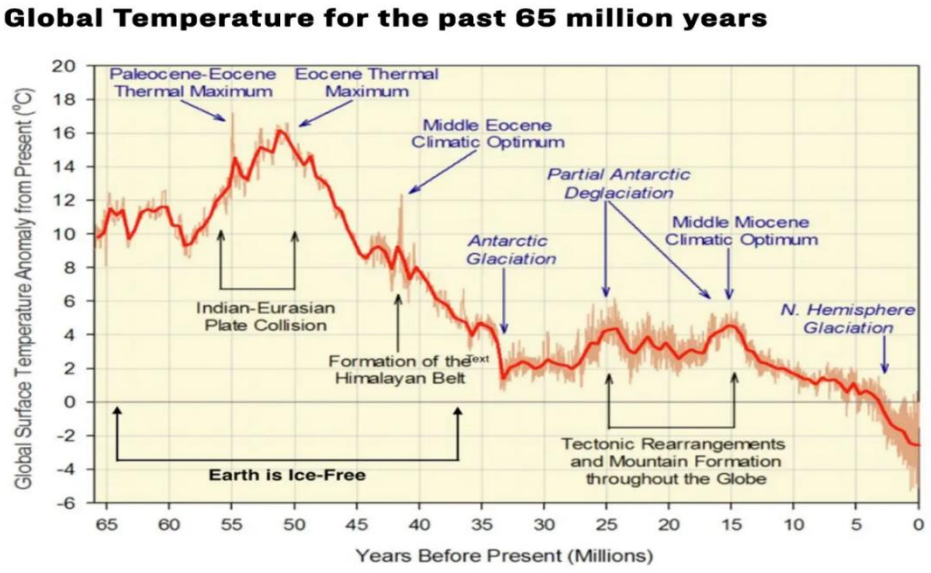
3) Are higher CO2 levels and warmer temperatures good or bad?

4000 years of temperature driven cultural advances and retreats

- Historically, mankind thrived under warmer temperatures and suffered during cold spells.
- Minoans prospered during the warm Bronze Age, followed by mere survival during the Greek Dark Age.
- Civilization flourished during the Roman Warm Period, followed by colder, devastating Dark Ages.
- The Medieval Warm Period (1.0 to 1.4C ° C warmer) saw civilization advance with positive living conditions.
- The Little Ice Age brought severe hardships, including crop failures, famine and population decline.
- These warm periods, when mankind thrived, were all higher by 0.5 to 2 ° C than today's temperature

4000 Years of Temperature–Driven Cultural Ad





Reference book: Inconvenient Facts page 52

Source: Alley 2004; "current temperature Box 2009

CO2 Climate and the Rise and Fall of Civilizations ¦ Climate Chronicles - CO2 Coalition

3) Are higher CO_2 levels and warmer temperatures good or bad?

Historically, mankind thrived under warmer temperatures and suffered during cold spells

- Human health, morbidity, mortality and longevity are significantly impacted by climate.
- Based on the evidence from the past, present and possible future, human health impacts of climate change are significantly better under warmer versus colder climates.
- For over 2 million years, Earth has been in the grip of an ice age, interspersed every 100,000
- years or so with interglacial warm periods. Our furless species evolved on the hottest continent, probably during the warm Purfleet interglacial, spread during the Eemian, also several degrees warmer than now, and populated the planet during the present Holocene, dating from 9700 BCE when South Greenland warmed by 7°C in just 50 years
- .Agriculture began and civilizations arose during the Holocene Climatic Optimum, which was warmer than now for several millennia in Russia and up to 7°C warmer in the Arctic
- Humanity flourished and multiplied during the Minoan and Roman warm periods, after which rapid cooling ushered in the dreadful Dark Ages. The bubonic plague of Justinian (541–542 CE) killed 25 million people, 13% of the world's population, and twice that number died from plague over the next two centuries (Rosen 2007). After flourishing again during the Medieval Warm Period, humanity endured a miserable Little Ice Age (LIA) with frequent widespread crop failures, mass starvation, disease and depopulation (Lamb 1965, Patterson et al. 2010). Crop failures over successive summers from 1315 produced the Great Famine of Europe. The Black Death of 1346–1353 wiped out 30–60% of Europe's population and up to 200 million people across Eurasia (Austin Alchon 2003).

3) Are higher CO_2 levels and warmer temperatures good or bad?

Historically, mankind thrived under warmer temperatures and suffered during cold spells

- Global rewarming since the 18th century—associated with increasing prosperity, better housing, sanitation, food and water supplies—has greatly benefited human health and wealth. Deaths from typhoid and tuberculosis declined dramatically during pre-antibiotic 20th century warming (1910–1945)/. Mortality from all causes fell as temperatures rose. From a billion people in 1800, the global population doubled by 1927, doubled again to 4
- billion in 1974 and again to 8 billion in 2022. Despite this fourfold increase over the last century, the number of deaths from extreme weather events declined by over 90%.
- Northern winters nevertheless remain more lethal than summers, 13% more so in 1952–67 in the U.S. and 16% more so in 1985–90, partly due to the increased availability and affordability of air-conditioning in summer (Fernandez-Raga et al. 2010, Moore 1998). Climate action in the U.K., however, was largely responsible for *fuel poverty* affecting almost a third of the elderly and high winter death toll in 2017–18, the worst in 42 years despite global warming. Davis et al. (2003, 2004) found a 74.4% decline in heat-related mortality in 28 of the largest U.S.cities from 1964 to 1998 and estimated that another 1°C increase would further reduce the net mortality rate. Analyzing over 74 million deaths in 384 locations across 13 countries, Gasparrini et al. (2015) found that cold weather was over 17 times more lethal than hot weather: 7.3% of all deaths due to cold and 0.42% from heat. Masselot et al. (2023) found cold weather to be 10 times more lethal than hot weather across Europe and 40 times more so in northern Europe

3) Are higher CO_2 levels and warmer temperatures good or bad?

Historically, mankind thrived under warmer temperatures and suffered during cold spells

- .Their visual display of this difference (Figure 1) was camouflaged by making the X-axis for heat related deaths 5.6 times greater than the X-axis for cold-related deaths!

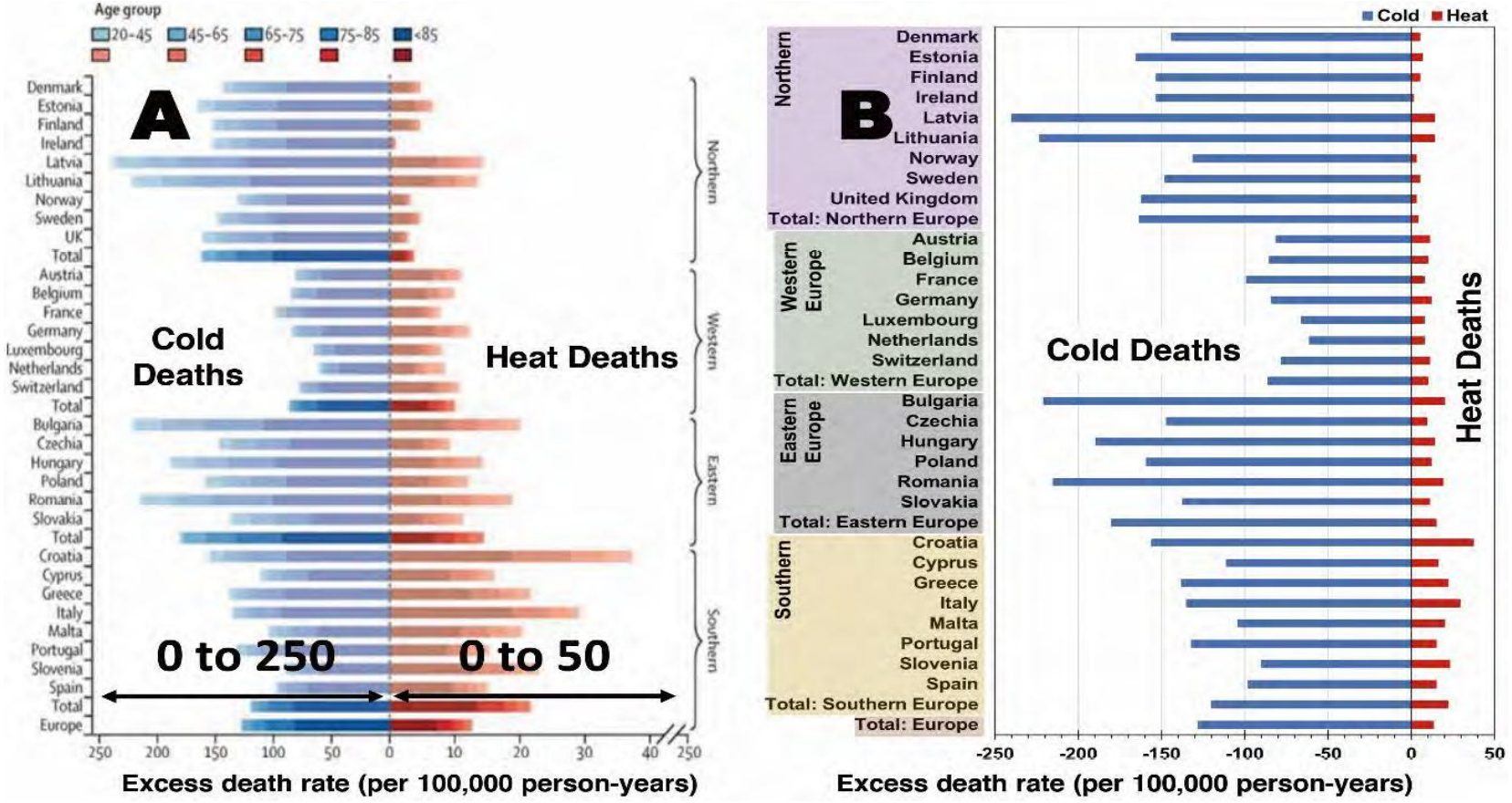
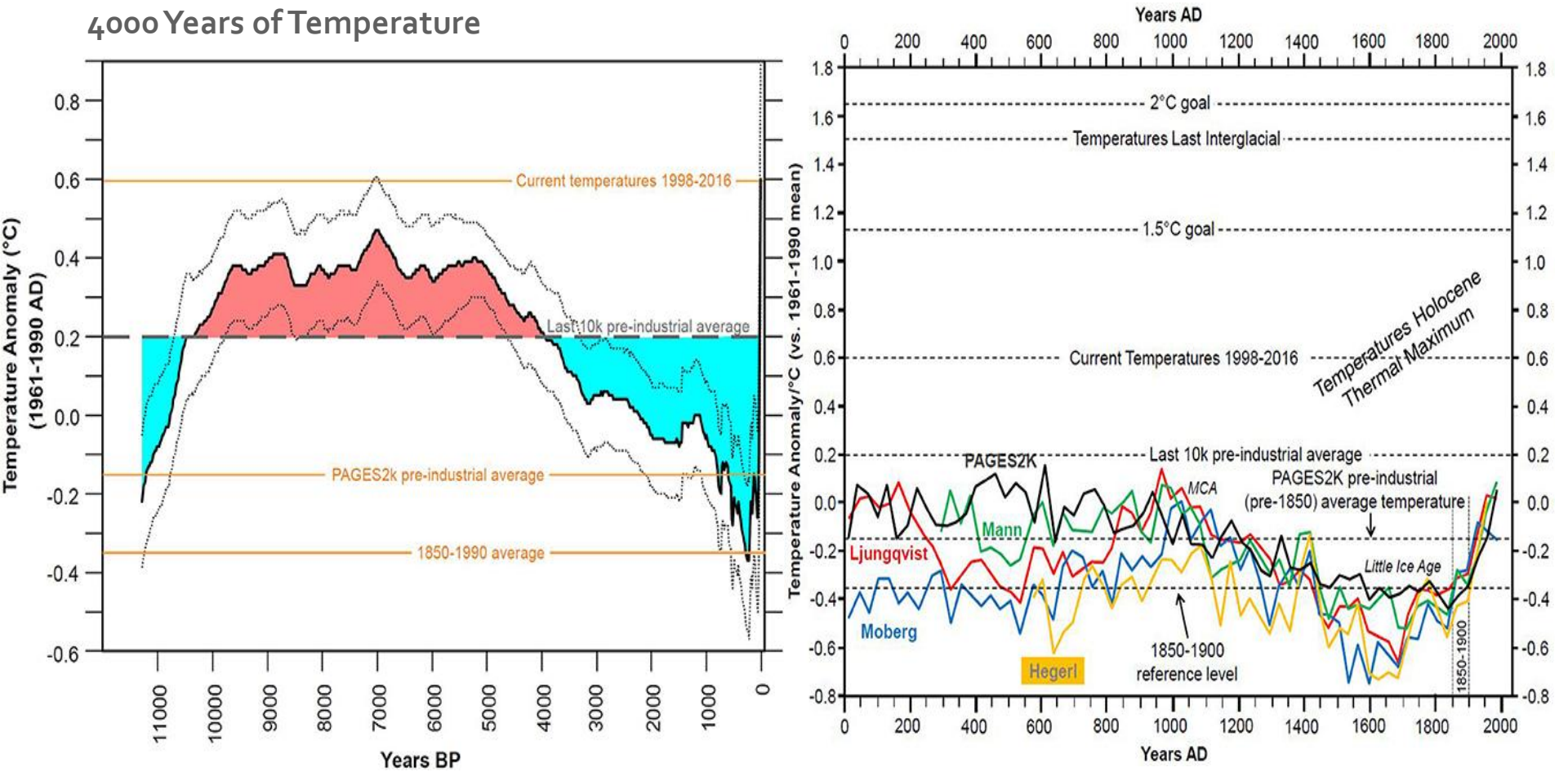


Figure 1: *Temperature-Related Mortality in European Cities from Masselot et al. 2023, (A) As Depicted in The Lancet, B) Identical X-axis for Heat and Cold, Corrected by the CO_2 Coalition*

3) Are higher CO_2 levels and warmer temperatures good or bad?

4000 years of temperature driven cultural advances and retreats

- Historically, mankind thrived under warmer temperatures and suffered during cold spells.



[Frontiers | Paleoclimatological Context and Reference Level of the 2°C and 1.5°C Paris Agreement Long-Term Temperature Limits (frontiersin.org)]

3) Are higher CO_2 levels and warmer temperatures good or bad?

Human crises were much higher during the period of a deteriorating, colder climate

Example: The 1815 volcano-induced cold spell had a devastating effect on human life

1815 Volcanic Eruption Results in a Cold, Devastating Period

- On April 5, 1815, Mount Tambora volcano in Indonesia, erupted, releasing 100 cubic kilometres of molten rock—and ash clouds that covered an area the size of Australia—into the sky.,cooling the Earth's temperature, resulting in starvation and misery
- It took a full year after the eruption for the shockwaves to reach Canada. On April 12, 1816, it began snowing in Quebec City—and it didn't stop. A news report from April 18 wrote, "The country has all the appearance of the middle of winter, the depth of snow being still between three and four feet. We understand that in many parishes the cattle are already suffering from a scarcity of forage.". By June, the noontime temperature in central Ontario was just one below zero. In the Quebec countryside, newly shorn sheep began dying from the cold. The *Montreal Herald*, meanwhile, urged readers to plant as many potatoes as possible in case the summer's wheat crops failed completely.
- Manitoba **witnessed** a cold spell that began on June 5. "A very sharp frost at night… killed all the barley, wheat, oats and garden stuff above the ground except lettuce and onions"
- Cold fronts continued to sweep through Lower Canada in July. By September, Lower Canada was destitute. Up to four-fifths of the region's hay crops were ruined, while the frost left the province with a small wheat harvest and an even smaller supply of oats. Farmers were forced to sell their dairy cows to buy bread, while others survived on a diet of wild herbs.

Reference witnessed 1816, the year without a summer

3) Are higher CO_2 levels and warmer temperatures good or bad?

Human crises were much higher during the period of a deteriorating, colder climate

Example: The 1815 volcano-induced cold spell had a devastating effect on human life

1815 Volcanic Eruption Results in a Cold, Devastating Period

- These cold-related disasters also occurred in the rest of the world
- Summer frosts also devastated much of the eastern United States, from New England to Virginia. Failing crops and rising bread prices led many hungry settlers to leave for areas in the Midwest, particularly modern-day Indiana and Illinois.
- Across the Atlantic, the citizens of Germany and France struggled with surging food prices. In the Netherlands, rainstorms destroyed so much hay and grain crops that farmers, fearing their livestock would die of starvation, began slaughtering them. Ireland, meanwhile, faced famine as the region's wheat, oat and potato harvests failed.
- India was ravaged by several late-season downpours. As harvests failed, a combination of famine, mass migration and crowded communities led to the world's first cholera pandemic. By the winter of 1816, the disease broke out in northeastern Bengal—where it killed 10,000 people in two weeks—and spread across Nepal, Thailand, the Philippines, China and Japan.

Reference **witnessed** 1816, the year without a summer

3) Are higher CO_2 levels and warmer temperatures good or bad?

Human crises were much higher during the period of a deteriorating, colder climate

Historically, mankind thrived under warmer temperatures and suffered during cold spells.

Historically, War Occurrences Correlate with Periods of Cold Climate

- In the pre-industrial period, the main source of livelihood was agriculture; traditional agriculture was very much dictated by the whims of climate and weather conditions; any deterioration of climate would trim agricultural production; yield reduction would trigger famine, tax revolt, and a weakening of state power; the deficit in livelihood resources was aggravated by the population expansion accumulated in the previous favorable climate.
- Six major cycles of cold and warm phases were identified between AD 1000 and 1911.
- **Cold:** AD 1110–1152, 1194–1302, 1334–1359, 1448–1487, 1583–1717, and 1806–1911
- **Warm:** AD 1000–1109, 1153–1193, 1303–1333, 1360–1447, 1488–1582, and 1718–1805
- Analysis of the global correspondence of **wars and climate post year 1000 indicates cold periods were much more dangerous than warm:** the number and ratio of wars in the mild eighteenth century were the lowest compared with other centuries; the worldwide war ratio during cold centuries was 1.93 times greater than that of the mild eighteenth century, and 1.77, 1.91, 1.50, and 2.24times greater for the Northern Hemisphere, Asia, the arid areas of the Northern Hemisphere, and Europe, respectively.
- **Cold periods relate to** the two **crises** in Europe, the Middle Ages and the 17th century ones, and to the 1,679 wars in China during the period AD 1000–1911, including 682 rebellions. Of the six cold phases in China, five experienced dynasty collapse. Eight of the ten war peaks coincided with cold phases. All cold phases had one or two war peaks.

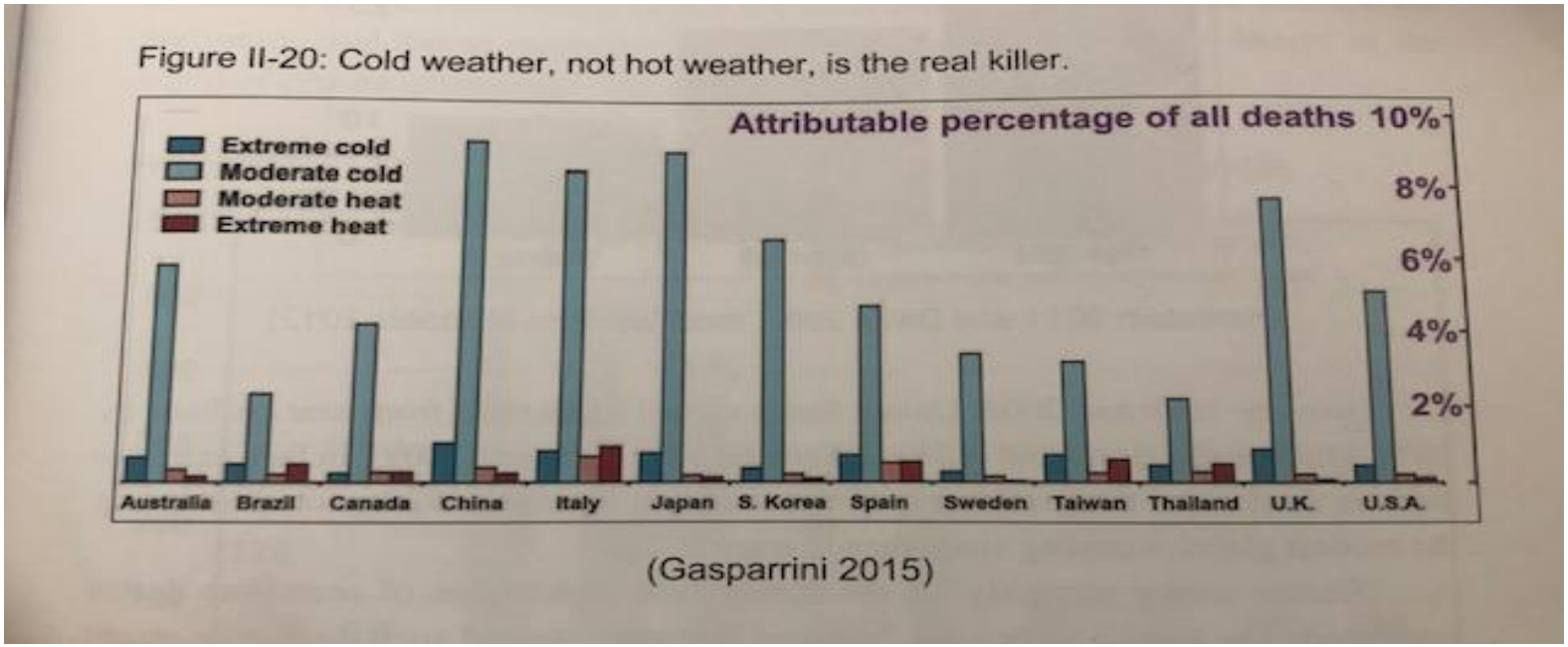
https://www.researchgate.net/publication/279192423_Quantitative_Analysis_of_Climate_Change_and_Human_Crises_in_Histo

3) Are higher CO_2 levels and warmer temperatures good or bad?

Table showing human deaths attributed to varying temperatures

- Significantly more people have died related to cold temperatures than warm temperatures. In Europe, about 200,000 people die from excess heat each year, but 1.5 million die annually from excess cold.
- Climate change will not cause massive disruptions or huge death tolls. A direct impact of climate warming will mean fewer deaths.

Higher Percentage of Deaths Attributed to Cold Vs Warm Temperatures



Reference book: Inconvenient Facts page 83

Source: Gasparrini 2015

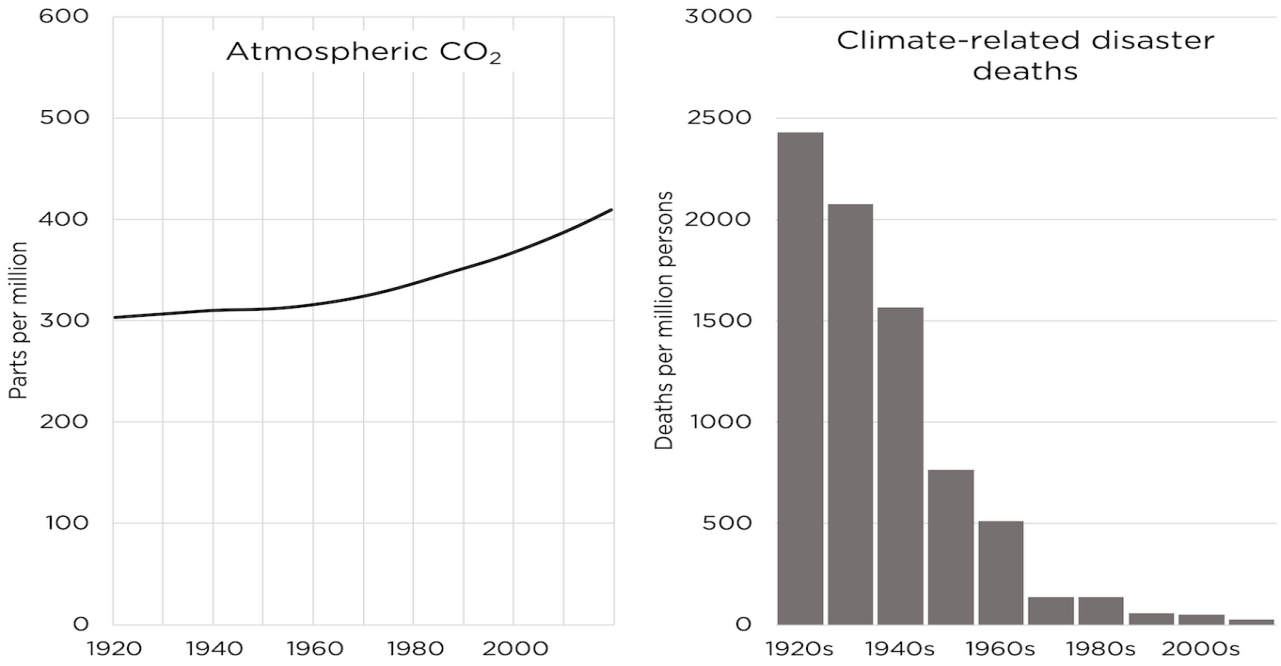
Reference book Cool It Page 17, 38

3) Are higher CO2 levels and warmer temperatures good or bad?

Table showing climate related deaths and varying CO2 concentrations

Climate disaster deaths have decreased 98% over the last century.[8]

- It is likely that fewer people died as a result of extreme weather events and temperatures in 2025 than at any time in history for which there is hard data. **Sources**: KTRH; Just the News; The Honest Broker



Source: Alex Epstein Aug 24, 2022

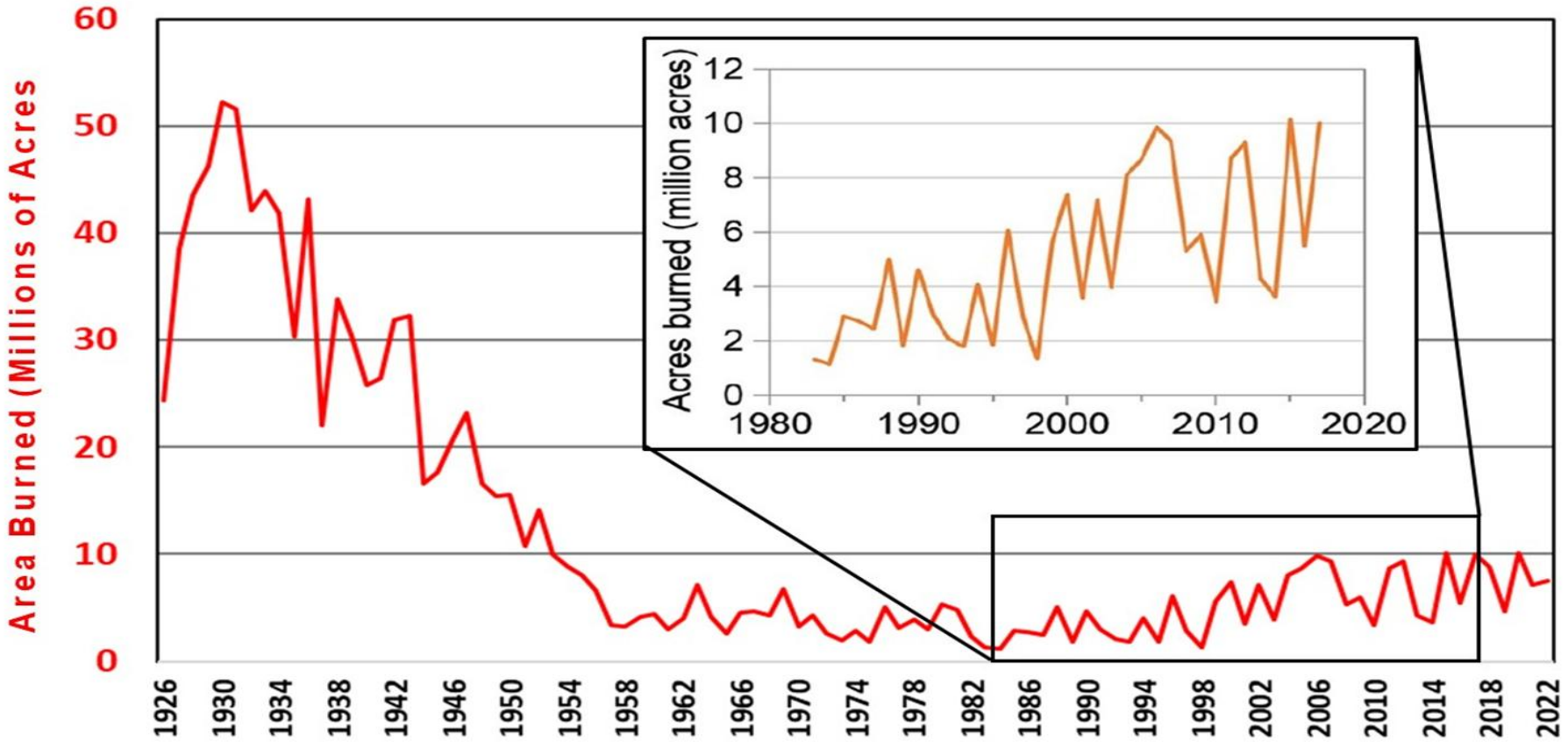
A pro-human, pro-freedom policy for CO2 emissions

Vijay Jayaraj The real cause of weather-related deaths https://co2coalition.org/2024/10/01/the-real-cause-of-weather-related-deaths/

3) Are higher CO_2 levels and warmer temperatures good or bad?

Table showing significant reduction in area burned by forest fires

Beware the time scales used to promote a specific view



CO2COALITION

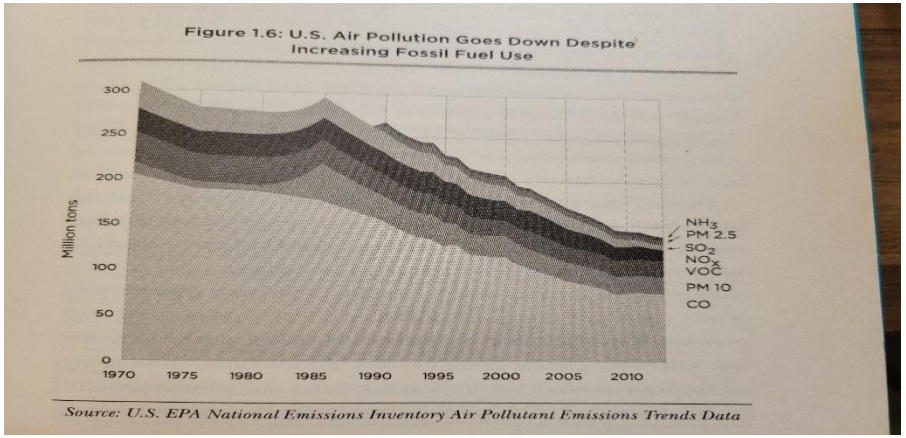
Wrightstone Ojai Presentation for Distribution.pdf

3) Are higher CO_2 levels and warmer temperatures good or bad?

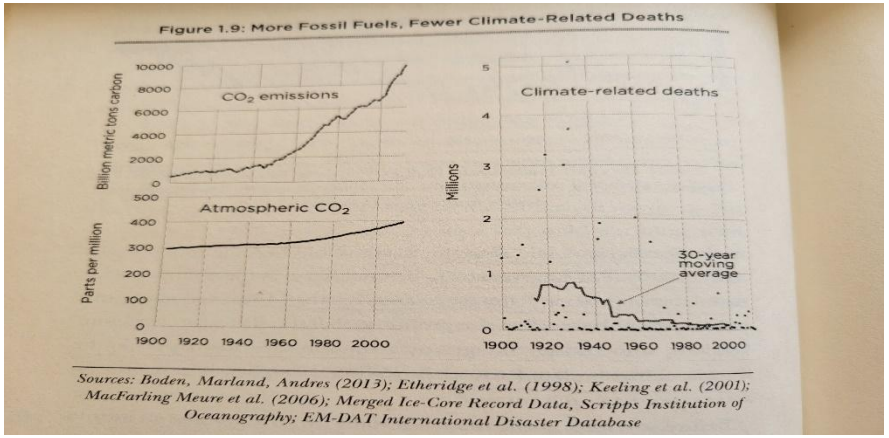
What has happened since fossil fuel use for energy has increased adding more CO_2?

- Mankind has benefited from fossil fuel use, providing cheap and accessible energy.

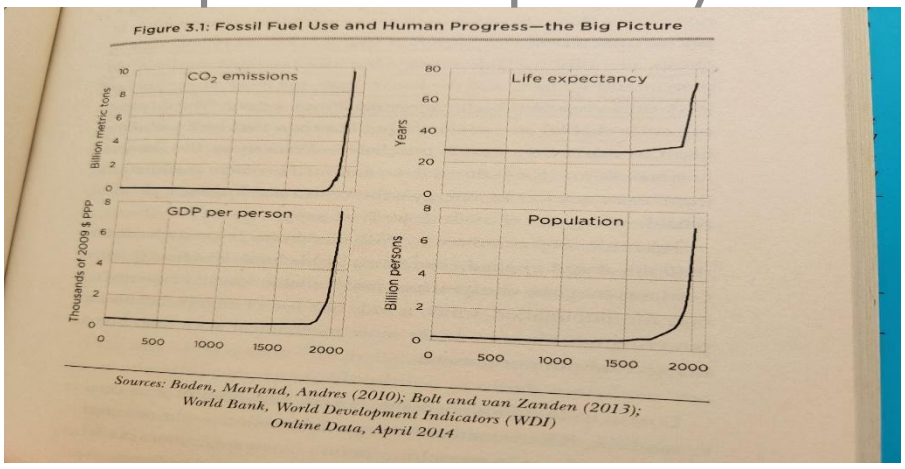
Pollution down



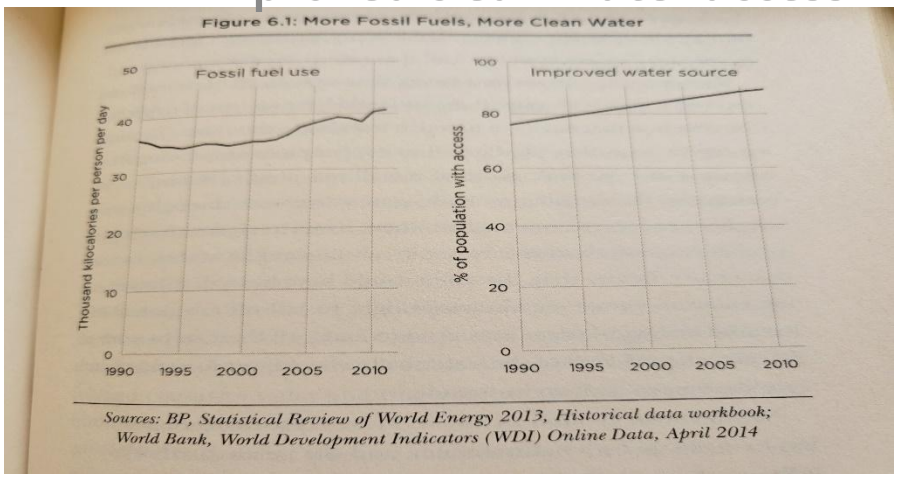
Deaths down



Improved life expectancy



Improved clean water access

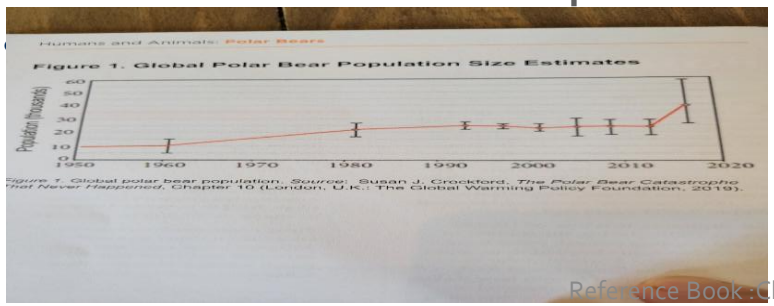


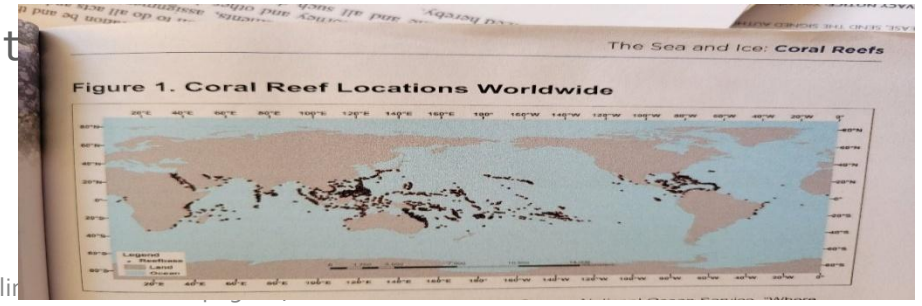
Reference book: The Moral Case for Fossil Fuels pages 19, 24, 77, 143

3) Are higher CO2 levels and warmer temperatures good or bad?

What about claimed loss of polar bears and coral reefs with rising temperature?

- There are almost four times as many polar bears today compared to 1960.
- Coral reefs thrive in warm water, not in cold water. Recent warming has allowed corals to expand their range poleward while still thriving near the equator. The Great Barrier Reef is thriving and expanding, not dying. Corals have existed continuously for the past 40 million years under higher temperatures and CO2 levels and continue to do so today. **The Great Barrier Reef has been expanding since the 80s.**
- Last year, coral declined from the prior year. **Short-term declines are common due to effects like storms or parasitic starfish.**





Source: Where Reef Building Corals Found National Oceanic and Atmospheric Administration July 26, 2021

Reference book: Climate at a Glance page 70

Source: Susan j. Crockford Chapter 10 London UK The Global Warming Policy Foundation 2019

Reference: Hot Talk, Cold Science page101, 103

https://www.aims.gov.au/sites/default/files/2023-08/AIMS_LTMP_Report_GBR_coral_status_2022_2023_9August2023.pdf Coral cover levels have broadly increased or not changed over the 37 years of detailed surveys

Polar bears - https://x.com/bjornlomborg/status/1596907524577320960

https://www.nytimes.com/2024/06/27/briefing/maldives-atolls-climate-change.html

3) Are higher CO2 levels and warmer temperatures good or bad?

Warmer temperatures and higher CO2 are good for mankind and nature

Gregory Wrightstone, associated with the **CO2 Coalition,** emphasizes several points regarding carbon dioxide (CO2) and climate change:

- **CO2's Vital Role**: The **CO2 Coalition** asserts that carbon dioxide plays a **vital role** in our environment. They provide facts and resources to educate thought leaders, policymakers, and the public about this contribution. CO2 is essential for plant growth and photosynthesis, benefiting ecosystems and food production.
- **Earth's Greening**: Wrightstone highlights that **80% of the Earth is greening** due to marginally higher CO2 levels. Increased CO2 has led to more vegetation.
- **Challenging Catastrophic Predictions**: The **CO2 Coalition** challenges catastrophic predictions related to climate change. They argue that hurricanes, wildfires, and sea level rise data do not necessarily point to a disastrous future.
- **A Warmer Planet**: Wrightstone suggests that a **warmer climate** has historically correlated with periods of human advancement.
- We know from history that primates developed at 400% higher tropospheric CO_2 levels and that most plants crave higher temperatures as CO_2 levels rise and that the optimum photosynthetic productivity is between 1500 and 2000 ppm versus current concentrations of 414 ppm.

Gregory Wrightstone Inconvenient Facts

https://co2-coalition.mobilize.io/links?url=https%3A%2F%2Fyoutu.be%2FftaUJg-0joo

FOURNIER: This just in! Oilsands emissions make trees grow (westernstandard.news)

https://www.newsmax.com/larrybell/co2-climate-change/2024/12/01/id/1189976/

CO2 is not a danger to human health, and it's good for crops https://www.telegraph.co.uk/gift/coc9a31afbe8e4co

3) Are higher CO2 levels and warmer temperatures good or bad?

Warmer temperatures and higher CO2 are good for mankind and nature

Gregory Wrightstone, associated with the **CO2 Coalition**, emphasizes several points regarding carbon dioxide (CO2) and climate change:

Wrightstone released A Very Convenient Warming: How Modest Warming and More CO_2 Are Benefiting Humanity (2024). This work explores how modest temperature changes and increased atmospheric carbon dioxide have contributed to longer growing seasons, enhanced global greening, and improved agricultural productivity—benefits often overlooked in mainstream discussions. Both books draw heavily on geological evidence spanning millions of years, reminding readers that Earth's climate has fluctuated dramatically long before human industrialization and that CO_2 is a fundamental plant nutrient essential to life.

Gregory Wrightstone books

Inconvenient Facts: The Science That Al Gore Doesn't Want You to Know (2017),

A Very Convenient Warming: How Modest Warming and More CO_2 Are Benefiting Humanity (2024)

A Tribute to Gregory Wrightstone: A Geologist's Legacy of Evidence, Leadership, and Open Inquiry

3) Are higher CO_2 levels and warmer temperatures good or bad?

Warmer temperatures and higher CO_2 are good for mankind and nature

- In his second book, "A Very Convenient Warming", Gregory Wrighstone shows the enormous benefits of both a warmer climate and added CO_2, including i) extreme weather events are not increasing, ii) added CO_2 is feeding the planet's growing population through expanded crop growth and iii) modest warming is saving lives.
- By nearly every metric, Earth's ecosystems are thriving, and the human condition is improving. This is entirely contrary to the claims of a climate crisis and looming disaster around every corner proclaimed by the Climate Industrial Complex.
- Looking at both the very recent and very long-term changes in climate clearly exposes the claims of unusual and unprecedented warming are erroneous and that hysteria over increases in CO_2 is unwarranted. A close look at the relationship between CO_2 and temperature reveals nothing of concern.
- There is, however, a strong relationship between the history of humanity and temperature. Past warm periods were warmer than today and correlated with the rise of great empires and civilizations. These warmer times of plenty were called "climate optima". The corollary to this was the cold periods that were horrific. Each cooling period was related to crop failure, famine, pestilence and mass depopulation. History tells us that we should fear the cold and welcome the warmth.
- The various claimed climate crises are, in fact, simply lies created to spread fear of a non-existent problem. Instead, there are many benefits that are improving the human condition and leading to thriving ecosystems.

Gregory Wrightstone A Very Convenient Warming: How modest warming and more CO_2 are benefiting humanity

3) Are higher CO_2 levels and warmer temperatures good or bad?

Extreme weather event statistics do not support a "climate crisis"

- **Heatwaves:** Since 1950,heatwave occurrences (number of days hotter than normal) have increased as would be expected due to the 1C of global warming since the pre-industrial age. However, there is no meaningful trend to indicate an increase in heatwave intensity.
- **Hurricanes and tropical storms**: The U.S. National Oceanic and Atmospheric Administration (NOAA) states "only a small nominally positive upward trend of the tropical storms from 1878 to 2006" and "strong to violent tornadoes… show no increase over time".
- **Tornadoes:** NOAA states " …strong to violent tornadoes …show no increase over time".
- **Global and Extreme Precipitation events**: NOAA observes an increase in total precipitation, an absence of generalised growth trends in extreme precipitation"
- **Floods and Droughts**: NOAA states "…there is no evidence that the areas affected by different types of droughts are increasing"
- The IPCC states that there were no increases in **winter storms, thunderstorms, hail, lightning and extreme winds.**
- **Sea level rise:** Since 1850, the end of the Little Ice Age, and long before atmospheric CO_2 began to increase, worldwide tide gauges suggest the sea level relative to the local land has been consistently increasing at a consistent and manageable rate 1.7 millimetres/year
- Journalists and politicians have been making extreme weather assumptions that are not true, trying to instil fear of climate change. Many scientists and academics have been silenced in trying to refute them. Reference book Sunset on Net Zero by Ron Barnby

3) Are higher CO_2 levels and warmer temperatures good or bad?

60 Facts About CO_2 and Climate

Impact and benefits of CO_2

1. CO_2 is not the most important greenhouse gas
2. The heating effects of CO_2 decrease with increasing concentrations
3. CO_2 is food for plants and is considered the gas of life
4. During the last four ice ages, the CO_2 levels on the planet were dangerously low for life
5. Development over 140 million years has produced dangerous reductions in CO_2
6. The current geologic period has the lowest CO_2 level throughout the planet's history
7. More CO_2 means better plant growth
8. More CO_2 makes it possible to produce more food for more people
9. More CO_2 makes the soil more moist
10. More CO_2 in the atmosphere means more food for everyone
11. The globe is getting greener and not currently changing to more dessert

3) Are higher CO_2 levels and warmer temperatures good or bad?

60 Facts About CO_2 and Climate

CO_2 and climate change

12. Despite the continuous increase in CO_2 emissions, global warming stopped for a period of 18 years
13. CO_2 concentrations rose after the Second World War, while temperatures fell
14. Global warming began long before we got SUVs or coal-fired power plants
15. Melting glaciers and rising sea levels confirm warming before the increase of CO_2 in the atmosphere
16. Temperatures have changed over 800,000 years. It had nothing to do with us
17. The Ice Ages usually lasted from 10,000 to 15,000 years. We have now used up 11,000 years of them
18. Each of the previous interglacial periods was warmer than the one we are currently in
19. The last interglacial, about 120,000 years ago, was 8 degrees warmer than today. The polar bears survived and the Greenland ice did not melt
20. Temperatures have changed over the past 10,000. It wasn't our fault
21. Today's total warming and warming rate are similar to what we find for earlier periods

3) Are higher CO_2 levels and warmer temperatures good or bad?

60 Facts About CO_2 and Climate

Impact and benefits of CO_2

22. Out of the last 10,000 years, 6,100 years were warmer than today
23. The current warming trend is neither unusual nor unprecedented
24. The Earth's orbit and the tilt of the Earth's axis are the causes of ice ages and interglacial periods
25. We are now living in one of the coldest periods in the history of the planet
26. Earth has not had such a cold geological period in 250 million years
27. The only thing that has been constant with regard to temperature over 600 million years is that it has been constantly changing
28. Throughout most of the planet's history, it was 10 degrees warmer than today
29. IPCC's models exaggerate the warming by up to three times
30. Only 0.3% of the publications showed that the current warming was mainly anthropogenic
31. Research is not consensus, and consensus is not research

3) Are higher CO_2 levels and warmer temperatures good or bad?

60 Facts About CO_2 and Climate

Benefits of CO_2 and a warmer climate

32. For human progress, warmer is better than colder
33. Returning to pre-industrial Revolution temperatures will lead to starvation, death
34. Growing seasons are getting longer
35. More CO_2 and a warmer climate mean higher global food production
36. Cold kills significantly more people than heat every year
37. Warmer weather means fewer temperature-related deaths
38. Warmer weather prevents millions of premature deaths every year

Heat waves, droughts and forest fires

39. Cases of extreme heat show a decrease
40. EPA3 – Heat waves will not become more common
41. More CO_2 results in fewer drought periods
42. Higher temperatures result in fewer drying periods
43. Forest fires in the Northern Hemisphere are decreasing
44. More CO_2 > CO_2 fertilization > moister soil > faster growth of the trees > fewer forest fires
45. More CO_2 and heat mean shorter and less intense heat waves

3) Are higher CO_2 levels and warmer temperatures good or bad?

60 Facts About CO_2 and Climate

Tornadoes

46. The number of tornadoes is decreasing
47. The number of tornadoes in 2016 was the lowest on record
48. Tornado death tolls are falling

Hurricanes

49. There has been no increase in the frequency of hurricanes
50. We have seen a decreasing frequency in hurricanes over the last 250 years
51. No significant increase in hurricane strength is linked to global warming

Polar bears

52. The polar bear population is growing
53. There are more polar bears today than there have been in 50 years
54. Polar bears thrive even where the sea ice is shrinking

Gregory Wrightstone Inconvenient Facts

3) Are higher CO_2 levels and warmer temperatures good or bad?

60 Facts About CO_2 and Climate

Ocean acidity and Ph levels

55. There is no historical connection between CO_2 and the ocean's PH
56. The oceans did not become acidic, even in periods when CO_2 level was 15 times higher than today

Sea level rise

57. Sea level rise began more than 15,000 years ago
58. The current sea level rise began 150 years ago, long before the increases in CO_2
59. The melting of the ice in the Arctic Ocean will not raise the sea level
60. Most of Antarctica is cooling down and putting on ice

Gregory Wrightstone Inconvenient Facts

3) Are higher CO_2 levels and warmer temperatures good or bad?

Warmer temperatures and higher CO_2 are good for mankind and nature

MIT & Princeton Scientists: 'More carbon dioxide cannot cause catastrophic global warming or more extreme weather' – Net Zero Policies Will Have Disastrous Effects on People Worldwide

Dr. Richard Lindzen Professor of Earth, Atmospheric, and Planetary Sciences, Emeritus, Massachusetts Institute of Technology

Dr. William Happer Professor of Physics, Emeritus, Princeton University

- Countries worldwide are vigorously pursuing regulations and subsidies to reduce carbon dioxide emissions to Net Zero by 2050 on the assumption, best stated by the Intergovernmental Panel on Climate Change (IPCC), that the "evidence is clear that carbon dioxide (CO2) is the main driver of climate change" and is "responsible for more than 50% of the change."
- We are career physicists with a special expertise in radiation physics, which describes how CO2 affects heat flow in Earth's atmosphere. The physics of carbon dioxide is that CO2's ability to warm the planet is determined by its ability to absorb heat, which decreases rapidly as CO2's concentration in the atmosphere increases. This scientific fact about CO2 changes everything about the common view of CO2 and climate change.

3) Are higher CO_2 levels and warmer temperatures good or bad?

Warmer temperatures and higher CO_2 are good for mankind and nature

- **Carbon Dioxide is Now a Weak Greenhouse Gas.**
- At today's CO_2 concentration in the atmosphere of approximately 420 parts per million, additional amounts of CO_2 have little ability to absorb heat and therefore is now a weak greenhouse gas. At higher concentrations in the future, the ability of future increases to warm the planet will be even smaller. This also means that the common assumption that carbon dioxide is "the main driver of climate change" is scientifically false. In short, more carbon dioxide cannot cause catastrophic global warming or more extreme weather. Neither can greenhouse gases of methane or nitrous oxide, the levels of which are so small that they are irrelevant to climate.
- Referring to additional atmospheric CO_2 as "carbon pollution" is complete nonsense. More CO_2 does no harm. Quite the contrary, it does two good things for humanity:

  1) It provides a slight and beneficial increase in temperature, much less than natural fluctuations.

  2) It creates more food for people worldwide.

- **First. Net Zero Efforts Will Have a Trivial Effect on Temperature.**
- More of the atmospheric greenhouse gas, CO_2, will increase temperature, but only slightly. Changes in atmospheric greenhouse gases affect radiation transfer described by precise physical equations.

3) Are higher CO_2 levels and warmer temperatures good or bad?

Warmer temperatures and higher CO_2 are good for mankind and nature

- We show that all the efforts to achieve Net Zero emissions of carbon dioxide, if fully implemented, will have a trivial effect on temperature: - United States Net Zero by 2050 — only avoids a temperature increase of 2/100 °F (**0. 02 °F**) with no positive feedback, and only 6/100°F (**0.06 °F**) with positive feedback of 4 that is typically built into the models of the United Nations International Panel on Climate Change (IPCC). - Worldwide Net Zero by 2050 — only avoids a temperature increase of 13/100 (**0.13 °F**), or 50/100 °F (**0.50 °F**) with a factor of 4 positive feedback. These numbers are trivial, but the cost of achieving them would be disastrous to people worldwide.
- **Second. Net Zero Policies Will Be Disastrous for People Worldwide.**
- Net Zero regulations and subsidies will have disastrous effects worldwide. Chief among them would be the proposed elimination of fossil fuels, which would mean doing away with internal combustion engines for transportation and other uses, the power plants that provide most of the world's electricity, gas space heaters and cooking stoves and the feedstocks for nitrogen fertilizers that enable the feeding of nearly half the global population.
- The resulting economic devastation would include massive job losses, which have already occurred in places where Net Zero subsidies and regulations have diverted capital away from investments into productive assets and ineffective technologies such as wind and solar energy. Those hostile to fossil fuels ignore the overwhelming evidence that the increase in atmospheric carbon dioxide from their combustion has significantly greened the Earth and boosted crop production.

3) Are higher CO_2 levels and warmer temperatures good or bad?

Warmer temperatures and higher CO_2 are good for mankind and nature

- In addition, various countries will require electric vehicles (EVs), heat pumps and electric appliances to be purchased and require companies to report information on carbon dioxide and other greenhouse gas emissions. Since more carbon dioxide causes trivial and beneficial warming, this data is immaterial and not required.
- **Third. More Carbon Dioxide Means More Food.**
- Contrary to common reporting, more carbon dioxide increases the amount of food available to people worldwide and is particularly helpful in drought-stricken areas. Doubling carbon dioxide to 800 ppm, for example. will increase global food supplies by approximately 60%. Thus, carbon dioxide emissions should not be reduced but increased to provide more food worldwide. Moreover, there is no risk of catastrophic global warming or extreme weather because carbon dioxide is now a weak greenhouse gas.
- Reducing carbon dioxide emissions will reduce the amount of food available to people worldwide and produce no benefit to the climate.

3) Are higher CO_2 levels and warmer temperatures good or bad?

Warmer temperatures and higher CO_2 are good for mankind and nature

- **Fourth. Fossil Fuels Must Not Be Eliminated.**
- Net Zero requires that fossil fuels be eliminated because they account for about 90% of human-induced CO2 emissions. However, the elimination of fossil fuels will have no effect on the climate since carbon dioxide is now a weak greenhouse gas.
- The use of fossil fuels must not be eliminated and should be expanded because they 1) provide more carbon dioxide which makes more food, 2) are used to make nitrogen fertilizer that enables the feeding of about half of the world's population, and 3) provide reliable and inexpensive energy for people everywhere, especially for the two-thirds of the world's population without adequate access to electricity. Conclusion.
- All Net Zero carbon dioxide regulations and subsidies worldwide must be stopped as soon as possible to avoid disastrous effects on people worldwide, especially in developing countries.

Reference: **MIT & Princeton Scientists: 'More carbon dioxide cannot cause catastrophic global warming or more extreme weather' – Net Zero Policies Will Have Disastrous Effects on People Worldwide**

Dr. Richard Lindzen Professor of Earth, Atmospheric, and Planetary Sciences, Emeritus Massachusetts Institute of Technology

Dr. William Happer Professor of Physics, Emeritus Princeton University

3) Are higher CO2 levels and warmer temperatures good or bad?

Higher CO2 is good for mankind and nature

Dr. Lars Schernikau

- CO_2 is a trace gas, currently around 420 parts per million in the atmosphere. It is also the primary source of carbon for all living organisms. ***The carbon in plants, animals, and human bodies originates almost entirely from atmospheric CO_2.***
- CO_2 is a greenhouse gas, but not a dominant one. ***Water vapour and clouds account for over 90%*** of the greenhouse effect. The warming impact of CO_2 increases logarithmically, meaning each additional ton has a smaller effect than the previous one.
- ***Larger and larger changes in CO_2 concentration therefore translate into relatively smaller and smaller temperature changes.***
- CO_2 removal (CDR), or "carbon" capture, utilisation & storage (CCUS), is widely promoted as a critical tool for meeting climate targets. In most "net-zero" pathways, large amounts of future CO_2 removal are assumed to compensate for emissions that cannot be eliminated.
- Based on published data from the IEA, IPCC, BCG, and peer-reviewed literature, CCUS or "carbon" capture utilization & storage, ***removes very little CO_2, requires large amounts of energy and capital, and delivers no measurable "climate impact" at scale.***

3) Are higher CO_2 levels and warmer temperatures good or bad?

Higher CO_2 is good for mankind and nature — Frank Lasee

- Global crop harvests and yields are at record highs.
- The planet is greening rapidly—satellite data shows added leaf mass equal to twice the area of the United States (leaf mass has a cooling effect).
- Crop production keeps setting records, deaths from natural disasters are at an all-time low, and more people worldwide die from cold than from heat.
- The narrative of unrelenting doom simply does not match observable reality.

3) Are higher CO_2 levels and warmer temperatures good or bad?

Conclusion: Warmer temperatures and higher CO_2 are good for mankind and nature

- Numerous alarms of increased frequency and severity of disasters caused by higher temperatures have been reported by IIPC. However, this is not reflected in official statistics, which show stable, reduced tendencies or similar patterns over centuries.
- The small temperature effect and significant CO_2 contribution to plant growth have made the Earth greener by approximately 15% since satellite recordings started in 1979, also in critical areas like the southern Sahara. This is consistent with up to 1200 ppm of CO_2 being added in greenhouses to stimulate photosynthesis and growth, particularly in C_3 plants, but also less abundant C_4 plants. Record crops are frequently reported over the later warmer periods. A warmer world will make huge land areas towards the north and at higher altitudes better suited for farming and forestry.
- Results from Richard Tol, working with environmental and climate strategies, justify that the world would be a better place to live for richer and poorer within a temperature rise of 2 °C. Increased atmospheric levels of greenhouse gases are no threat to that limit.
- There is no climate crisis. Natural variations are the more likely explanation for recent climate change. Increased CO_2 will, most likely, contribute to a more favorable development in most climate regions.

Reference Science of Climate Change International Journal of Science and Philosophy pg 13 Klimarealistene

Carbon and Climate Catastrophes Dr. Patrick Moore https://youtu.be/lX1z_6pvM-Q?si=TyUpEKESQU2SJs3j

Willie Soon **video**

3) Are higher CO_2 levels and warmer temperatures good or bad?

Conclusion: Warmer temperatures and higher CO_2 are good for mankind and nature

- For most of the last 10,000 years, temperatures were higher than today.
- Plants grow better and the Earth is greening with higher CO_2 and beneficial to human health, plus crops harvested worldwide have increased dramatically.
- Mankind has historically done better under higher temperatures than cold spells.
- Many more people die related to cold versus warm temperatures.
- Mankind has greatly benefited from access to fossil fuel energy.
- The polar bear population has been increasing since 1960.
- Coral reefs have been expanding, not declining.
- CO_2 is essential to terrestrial and marine life. Increases in CO_2 is beneficial and result in the creation of surplus food, plus expansion of both vegetation and forestation.

"What historians will definitely wonder about in future centuries is how deeply flawed logic, obscured by shrewd and unrelenting propaganda, actually enabled a coalition of powerful special interests to convince nearly everyone in the world that carbon dioxide from human industry was a dangerous, planet-destroying toxin. It will be remembered as the greatest mass delusion in the history of the world - that carbon dioxide, the life of plants, was considered for a time to be a deadly poison." Dr. Richard Lindzen,

- https://youtu.be/M8iEEO2UIbA

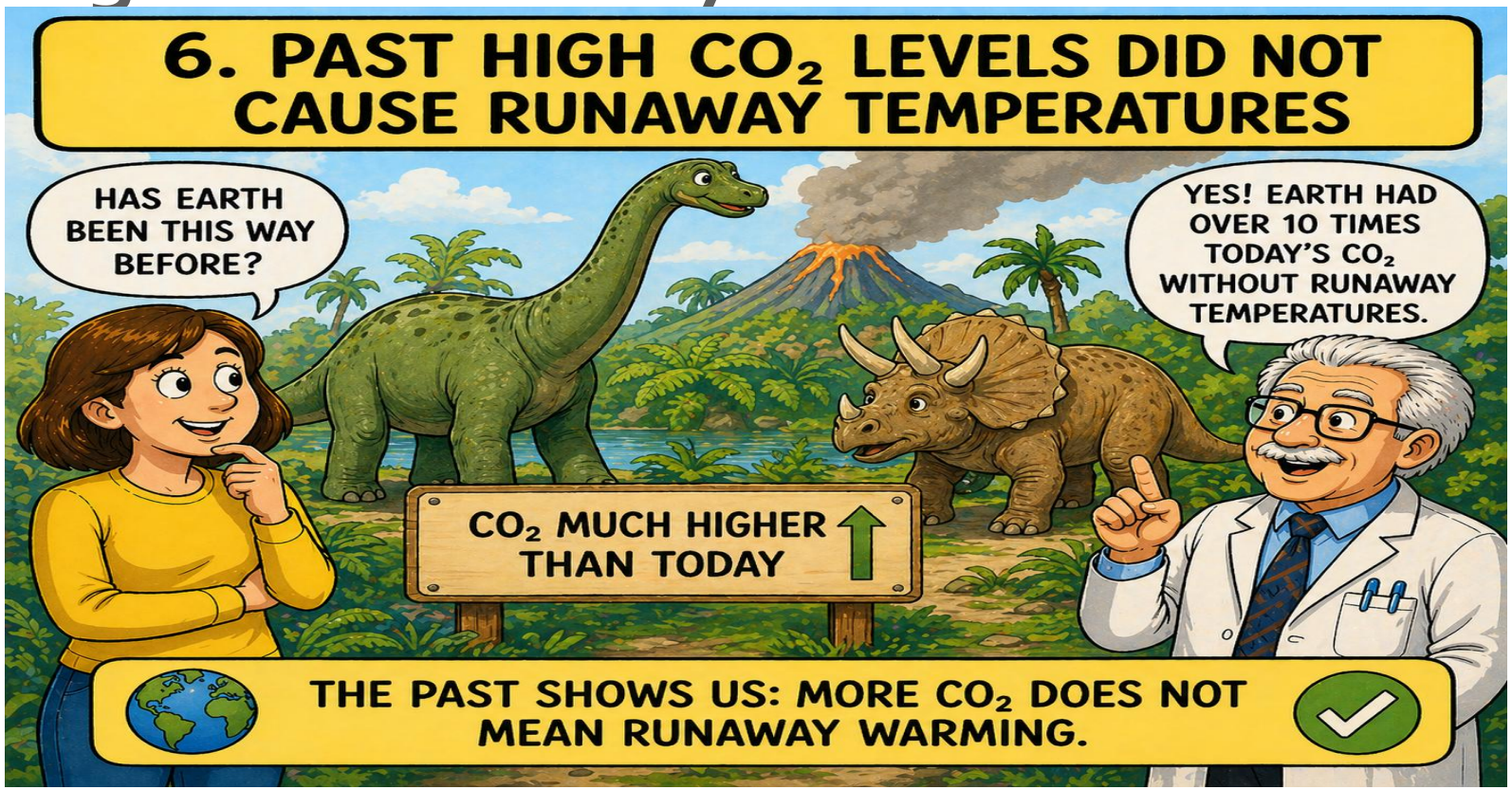
PhD William Happer and Dr Richard Lindzen (MIT) https://youtu.be/Wbs8whRlzn0

Global Warming and CO_2

4 of 11 Questions

Question 4

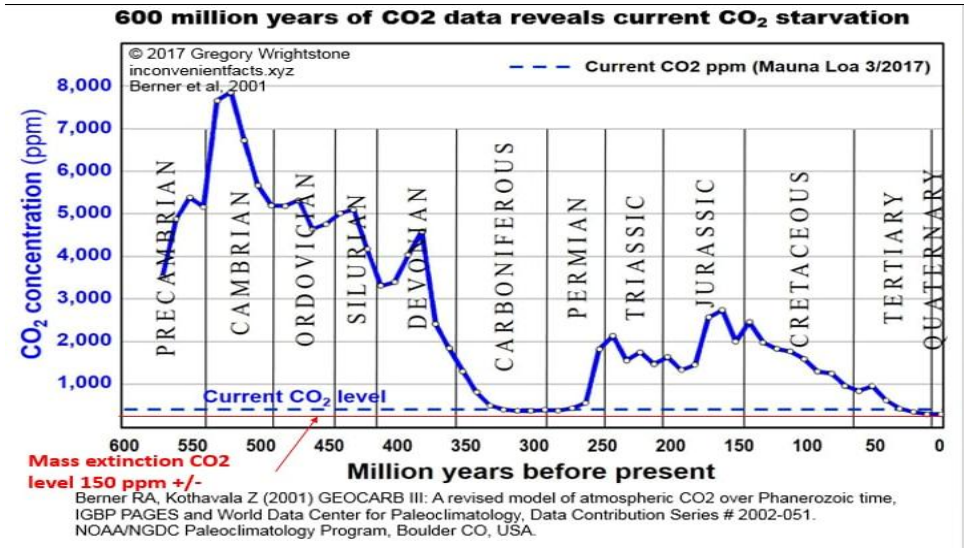
Are CO_2 atmosphere levels dangerously high or historically low?

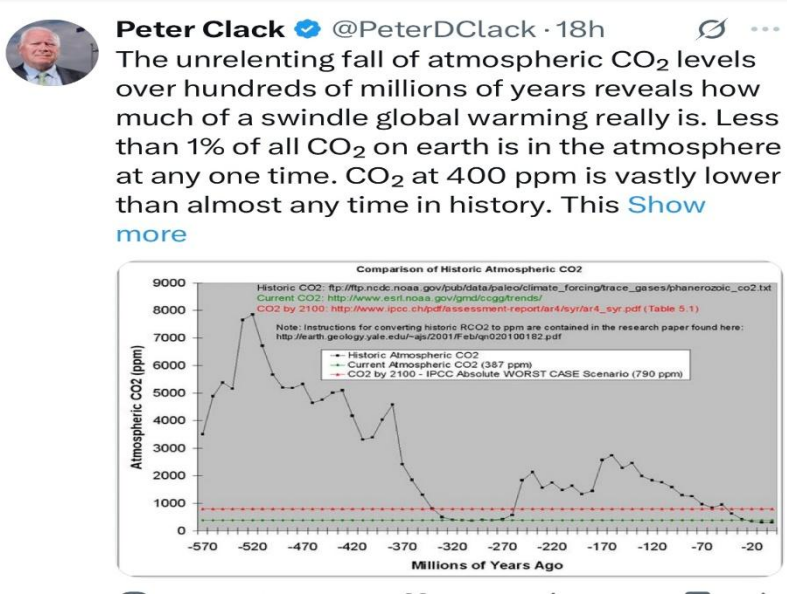


4) Are CO_2 atmosphere levels dangerously high or historically low?

Graph showing global atmospheric CO_2 levels over last 600 million years

- CO_2 levels have been much higher throughout geologic time while life on Earth evolved and developed.
- CO_2 highs in the Jurassic time of dinosaurs were about 2,800 ppm and nearly 8,000 ppm in the Cambrian period when recorded life began on Earth. Today's CO_2 concentration is only 415 ppm (over 10 times lower than in the past when life flourished). However, modern humans appeared only some 100,000 years ago.
- Concentrations up to 1,000ppm are common in classrooms. Physiological effects begin above 2,000 ppm.





Reference book Inconvenient Facts page 16p

Source: Berner 2001 ; data also available from GEOCARB III; Carbon Dioxide Poisoning 2005 Nigel Langford COPSE MODELS and Royer compilation; Carbon Dioxide Poisoning Nigel Langford

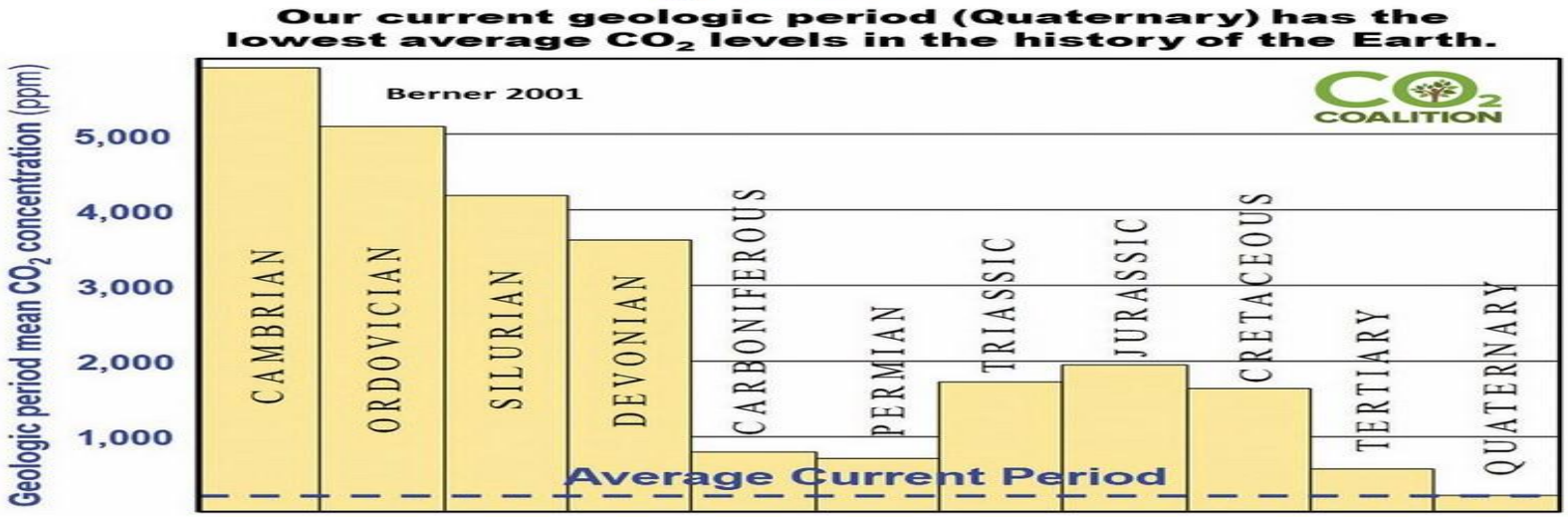
Reference: Book: Unsettled What Climate Science Tells Us, What it Doesn't and Why It Matters Steven E. Koonin

4) Are CO2 atmosphere levels dangerously high or historically low?

CO2 levels are near the lowest levels since last 600 million years

- CO2 levels have been over 20 times higher, when life on Earth evolved and developed.
- The Cambrian Period began over 500 million years ago. It was when life as we know it began.
- Dr. Happer, a leading proponent of the 'saturation' hypothesis of warming gases such as CO_2, observes that at certain levels such gases become saturated in small bands of the infrared spectrum. As a consequence, their warming ability diminishes on a logarithmic scale, an observation that helps explain the 600 million-year geological record, where CO_2 measurements have been up to 20 times higher than current atmospheric levels.

Our current geologic period (Quaternary) has the lowest average CO2 levels in the last 600 million years



https://www.instagram.com/reel/DQtkpoBjzAT/?igsh=MTg5NHFhMXV5dWF6ag==

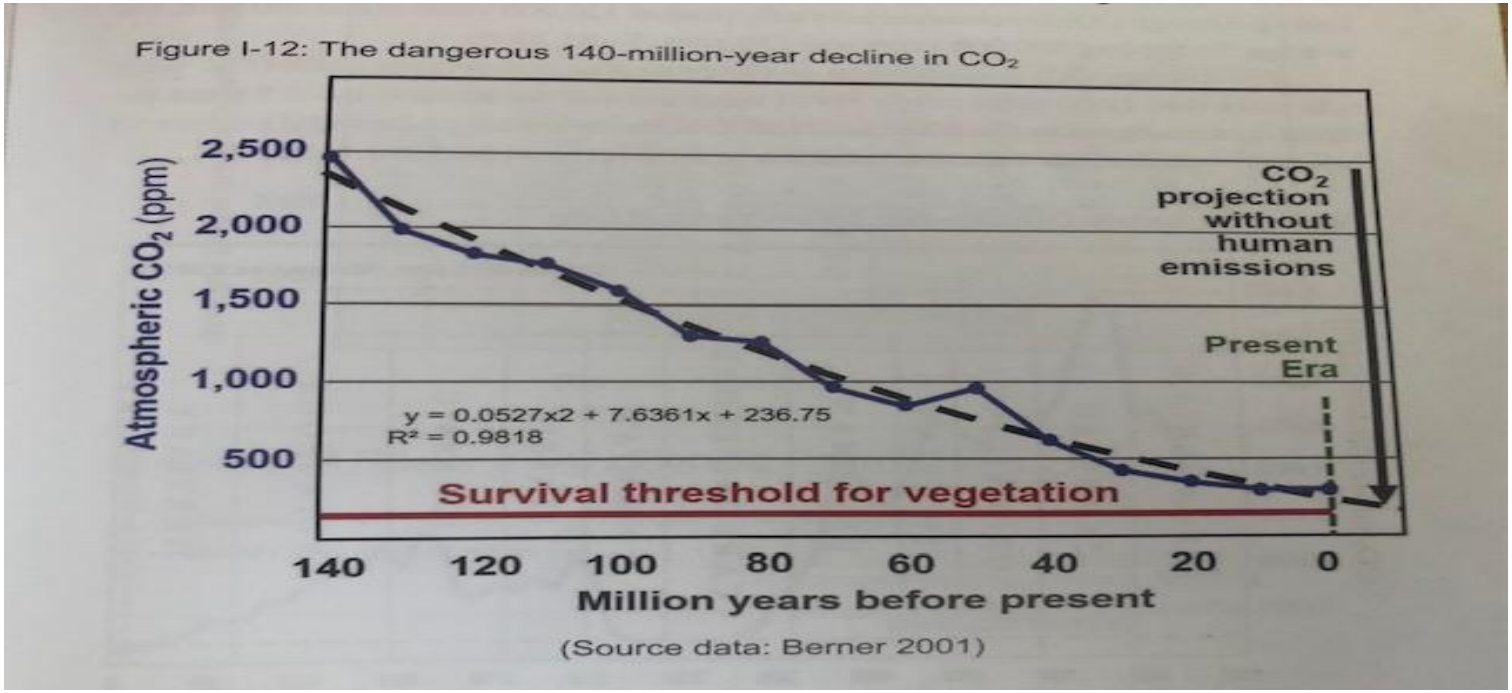
Are present CO2 levels unusual? https://www.instagram.com/reel/DQtkpoBjzAT/?igsh=MTg5NHFhMXV5dWF6ag==

4) Are CO_2 atmosphere levels dangerously high or historically low?

Graph showing CO_2 levels decline over last 140 million years plus plant survival level

- Over the last 140 million years, CO_2 levels have dropped to a recent low of 180 ppm.
- A further 30 ppm decline in atmospheric CO_2 would bring about the end of plant life.
- Mankind's CO_2 emissions have reversed this trend, bringing CO_2 levels up to 415 ppm.

CO_2 Levels Declining Over Last 140 Million Years



Reference book: Inconvenient Facts page 15

Source data: Berner 2001

Dr. Patrick Moore - A Dearth of Carbon? – YouTube

https://youtu.be/pHCCE-sw_Sc William Harper discussion on CO2

4) Are CO_2 atmosphere levels dangerously high or historically low?

Graphs showing CO_2 emissions recently declining

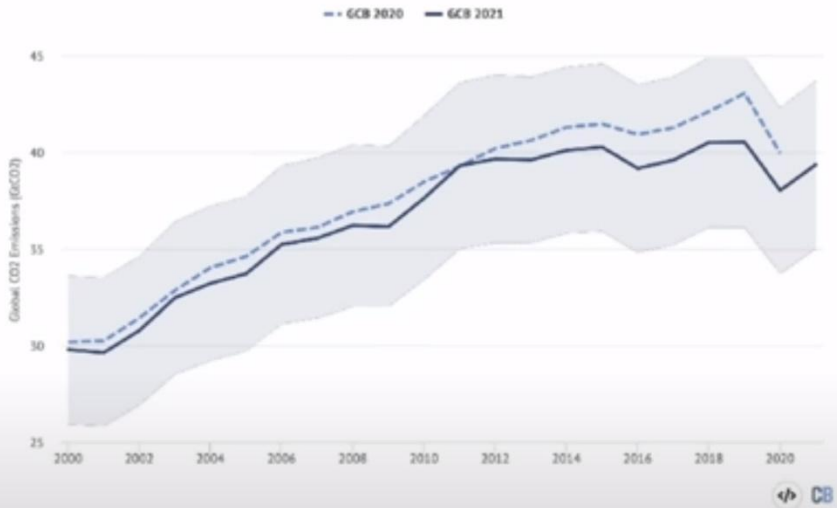
- Global CO_2 emissions flattened since 2016 and declined since 2019
- CO_2 emissions from land use have been flat since 1965 and declining since 2016

CO_2 Levels Recently Declining

Michael Shellenberger's Guide to Escaping the Woke Matrix

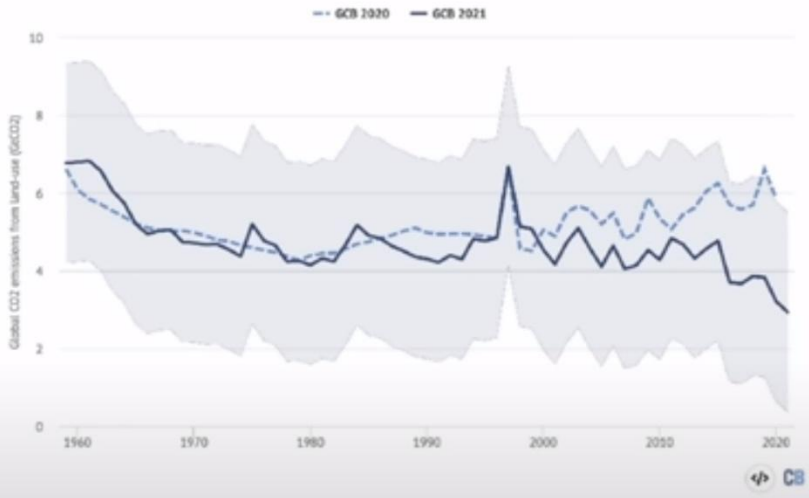
Global Emissions in Decline

Recent global CO2 emissions revised notably downward



Annual total global CO2 emissions – from fossil and land-use change – between 2000 and 2021 for both the 2020 and 2021 versions of the Global Carbon Project's Global Carbon Budget. Shaded area shows the estimated one-sigma uncertainty for the 2021 budget. Data from the Global Carbon Project; chart by Carbon Brief using Highcharts.

Major downward revision in land-use emissions over the past decade



Annual global CO2 emissions from land-use change between 1959 and 2021 for both the 2020 and 2021 versions of the Global Carbon Project's Global Carbon Budget. Shaded area shows the estimated one-sigma uncertainty for the 2021 budget. Data from the Global Carbon Project; chart by Carbon Brief using Highcharts.

Source: Zeke Hausfather, Carbon Brief, November 4, 2021

2:28 / 1:03:21

4) Are CO_2 atmosphere levels dangerously high or historically low?

CO_2 levels were historically low and were getting dangerously low

- CO_2 levels have been much higher throughout geologic time while life on Earth evolved, developed and flourished.
- Over the last 140 million years, CO_2 levels have dropped to a low of 180 ppm.
- Plant life would have ended with a further 30 ppm decline to 150 ppm atmospheric CO_2.
- With mankind's added CO_2 emissions, this downward trend was reversed to now be at 415 ppm, only 0.0417% of total atmospheric gases
- Concentrations up to 1,000ppm are common in classrooms. Physiological effects begin above 2,000 ppm.
- CO_2 concentrations are dangerous to humans when CO_2 is greater than 100,000 ppm (240 times higher than today).

Global Warming and CO_2
5 of 11 Questions

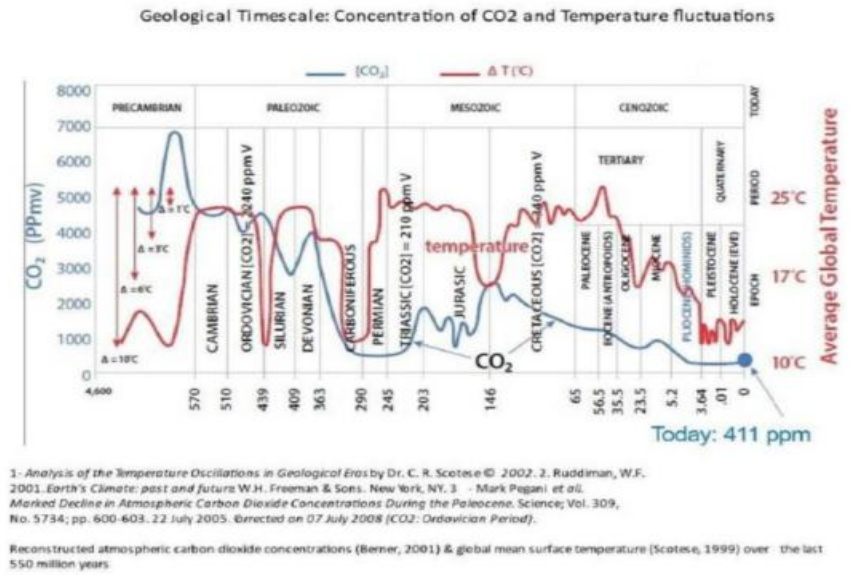
Question 5

What could have caused changes in CO_2 levels over geologic time?

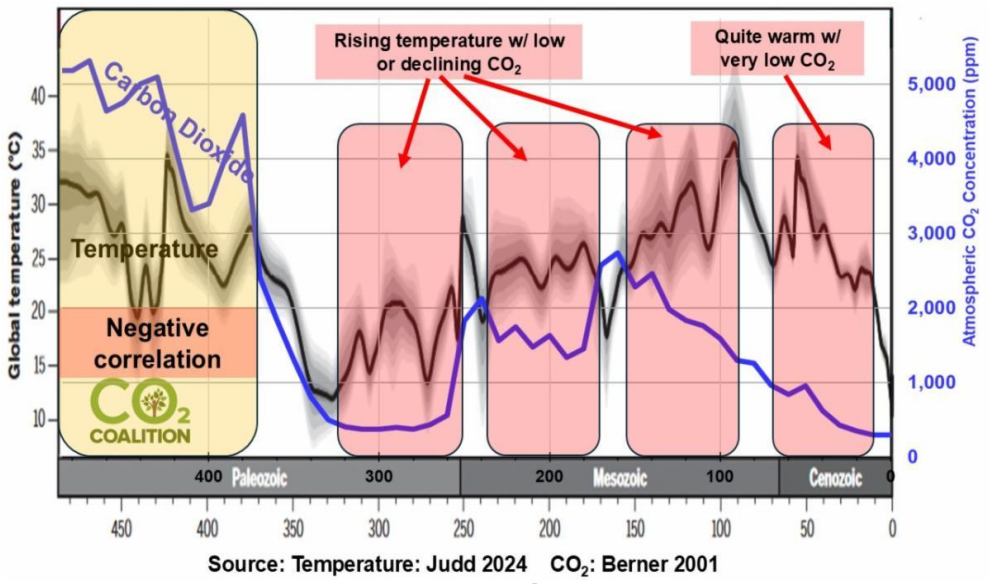
5) What could have caused changes in CO_2 levels over geologic time?

Graphs showing both temperature and CO_2 levels changed over last 600 million years

- From about 550 to 350 million years ago (the Paleozoic Era), while life was restricted to the oceans, CO_2 fluctuated from 10 to 25 times higher than today's levels. CO_2 dropped sharply in response to the appearance and spread of land plants about 350 million years ago, then shot up again during the Mesozoic Era..
- From peak **CO_2 values of more than ten times the current levels** 150 million years ago, CO_2 began a long, gradual decline to today's low levels, as seen in the ice core samples.



485 Million Years of Non-Correlation!



Reference book The Real Inconvenient Truth page 77, 81

[What's the hottest Earth's ever been? | NOAA Climate.gov]

[A Runaway Greenhouse Effect On Earth is Very Unlikely (youtube.com)]

PALEOCLIMATE A 485-million-year history of Earth's surface temperature
Emily J. Judd*, Jessica E. Tierney, Daniel J. Lunt, Isabel P. Montañez, Brian T. Huber, Scott L. Wing, Paul J. Valdes

5) What could have caused changes in CO_2 levels over geologic time?

Comments CO_2 and Climate Changes

- The emergence of plant life 450 MY ago resulted in plants absorbing CO_2 and adding O_2
- Plate tectonics and resulting volcanics added CO_2. Colliding and spreading plates and warm oceans presently add about 280 to 360 million tonnes (0.28 to 0.36 Gt) per year of CO_2 to the atmosphere, including that released into the oceans from mid-ocean ridges.
- About 85% of the planet's volcanoes are submarine and account for 75% of the heat transfer to the surface from molten rock, which releases monstrous amounts of CO_2.
- Large disturbances, including immense releases in magma, occurred at least five times in the past 500 million years, dramatically increasing the overall level of CO_2..
- Plants and cold oceans are major reservoirs for absorbing CO_2.
- Over geologic time, global temperatures changed independently from changing CO_2 levels, which have been generally decreasing over the last 150 million years.
- Through burning fossil fuels, human carbon emissions added to atmospheric CO_2 levels
- Modern agricultural practices of preparing a field by spraying with weed killer and then light furrow planting open the topsoil and allow oxidation of the soil carbon, releasing about 18 tons (23% of total) of carbon dioxide into the atmosphere.

Reference book: Fake Invisible Catastrophes and Threats of Doom page 38

Reference book: The Real Inconvenient Truth Chapters 3 and 4; Reference book: Catchments and Carbon Lois Cabon

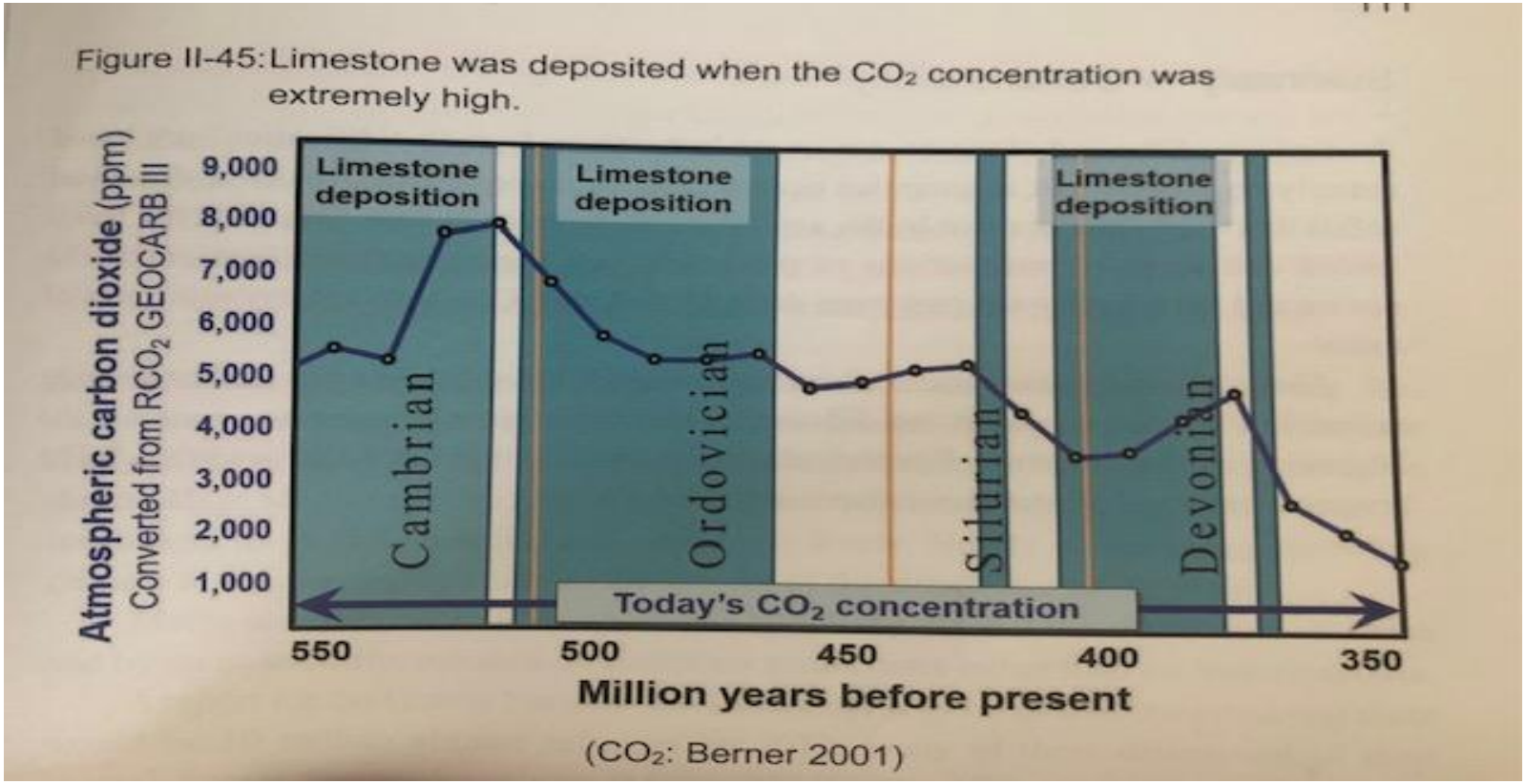
https://youtu.be/JCt2MhOzWVE?si=StLeINo6uTMDXA06

5) What could have caused changes in CO_2 levels over geologic time?

Historically high CO_2 levels and limestone deposition between 650 and 360 million years ago

- CO_2 is dissolved and stored in the oceans; the oceans retain CO_2 over a long period of time.
- Marine deposition of limestone, chalk, organic-rich shales, oil, gas and coal deposits store large amounts of CO_2

Limestone Deposited Under High CO_2 Levels in Paleozoic Time.



Reference book: Inconvenient Facts page 111 Source: CO_2 Berner2001

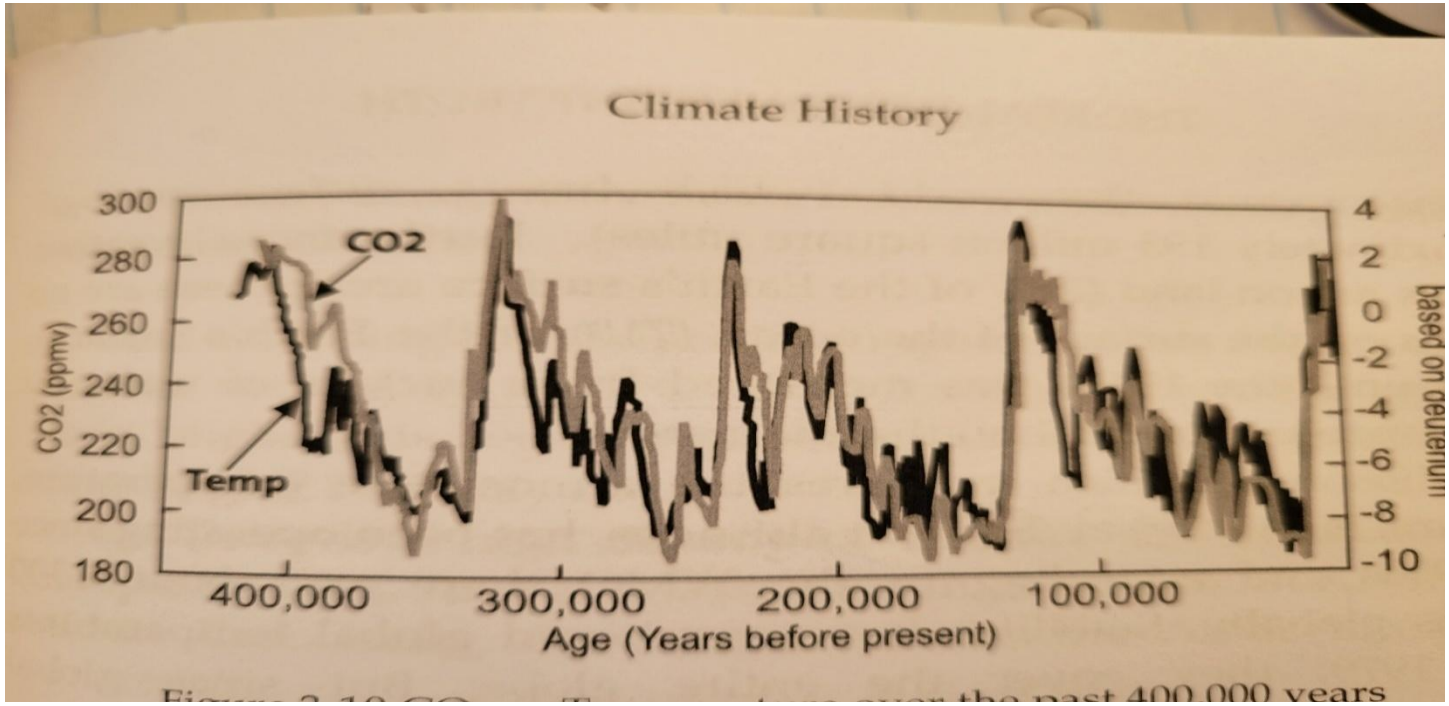
Reference book : The Inconvenient Treal Truth page 80,

5) What could have caused changes in CO_2 levels over geologic time?

Graphs showing both temperature and CO_2 levels changed over last 400,000 years

- Changing glaciation periods are tied to changes in Earth's orbit and have occurred over the last 800,000 years
- As seen in historic ice records, **CO_2 increases occur in response to temperature** increases (650 to 6000 years later) and therefore cannot cause these preceding temperature increases (Malkovich cycles based on Earth's orbit changes)
- **As temperature increases, oceans release CO_2 into the atmosphere.* Henry's Law: warming water holds less gas**
- **CO_2 levels today are 0.042% and during the world's history vary between 0.02% and 0.4% with very high excursions**

CO_2 vs Temperature Over the Past 400,000 Years



Reference book:: The Inconvenient Real Truth page 80, 81

Source Adapted from U.S.Dept. of Energy

5) What could have caused changes in CO2 levels over geologic time?

Physical chemistry (Henry's Law) shows that warming oceans cause increased atmospheric CO2

Henry's Law explains why warmer temperatures cause higher CO2 levels and not the other way around, as is claimed by those supporting a CO2 driven climate crisis.

Henry's Law states that, at a constant pressure, the amount of gas that dissolves in a liquid is proportional to the partial pressure of that gas above the liquid. Henry's Law itself is about pressure, but **the Henry's Law constant is temperature-dependent**.

In practice, **warming fluids hold less gas. This is well-established physical chemistry.**

This principle is **uncontroversial** and accepted by physical chemists, oceanographers and climate scientists.

Temperature effect is important in understanding the warming ocean's release of CO2

- As temperature increases, the solubility of most gases in liquids decreases.
- Warm water holds less dissolved gas than cold water. Cold oceans can hold more CO_2
- Warm oceans release CO_2 more easily

Why this happens: Gas molecules are only weakly bound in a liquid. When the liquid warms up, molecules move faster and it's easier for dissolved gas molecules to escape back into the atmosphere

5) What could have caused changes in CO_2 levels over geologic time?

Study Shows Sea Surface Temperature (SST) Drives CO_2 Levels

A new study by independent researcher *Dai Ato* contends that human activities are NOT the primary drivers of rising atmospheric CO2 levels.

- By applying multivariate analysis to data spanning from 1959 to 2022, Ato shows that sea surface temperature (SST) is the dominant factor influencing atmospheric CO2 levels, with human emissions playing a negligible role.
- He demonstrates a near-perfect correlation between SST and atmospheric CO2 levels, with correlation coefficients approaching 0.9995.
- His study suggests that human emissions are negligible compared to the natural exchange of CO2 between the ocean and the atmosphere, which is primarily driven by temperature fluctuations.
- Ato challenges the widely accepted belief that pre-industrial CO2 levels remained stable at around 280 ppm, arguing that this figure is likely grossly underestimated, perhaps by some 30-50%.
- This study uses multiple regression analysis to demonstrate that the independent determinant of the annual increase in atmospheric CO_2 concentration was sea surface temperature, which showed strong predictive ability. However, human CO_2 emissions were irrelevant. This result indicates that atmospheric CO_2 has fluctuated as a natural phenomenon, regardless of human activity.

Dai Ato report linked here,

5) What could have caused changes in CO_2 levels over geologic time?

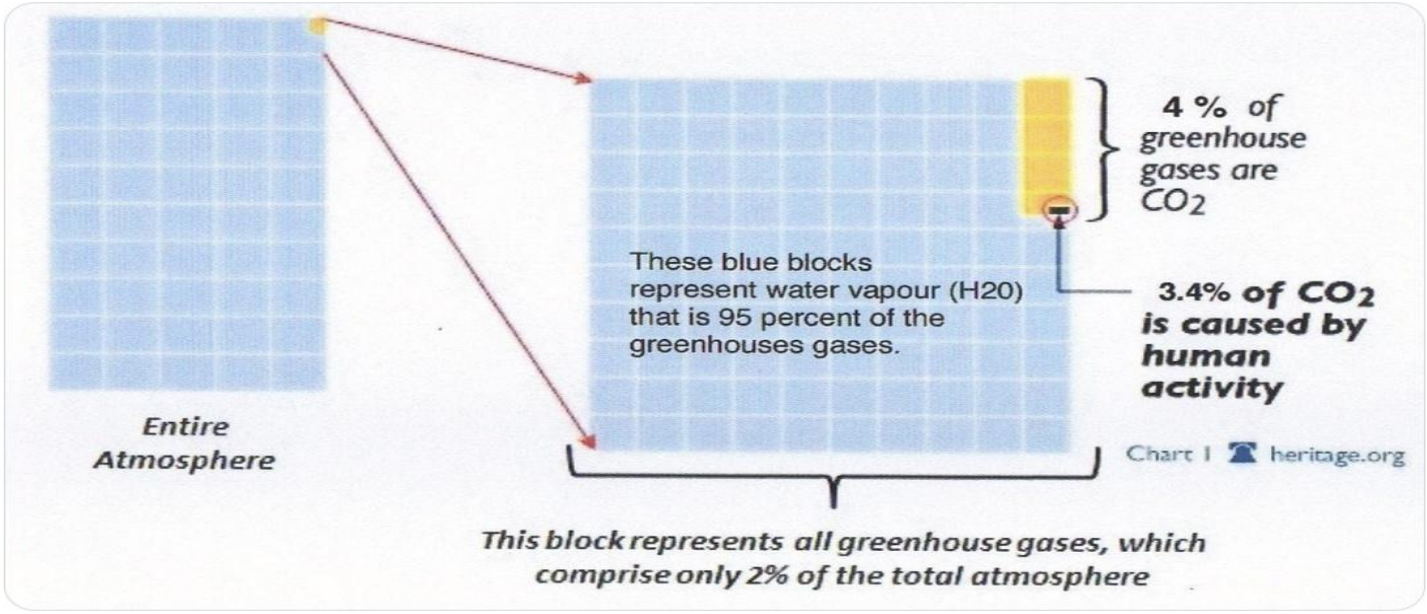
Study Shows Sea Surface Temperature (SST) Drives CO_2 Levels

7:48 AM Thu Aug 21

For you Following

Peter Clack @PeterDClack · 8h

Human society produces as little as 3% of all atmospheric CO_2, a recent study has found. This rejects the UN's global warming narrative, which blames anthropogenic warming. The study finds that almost all CO_2 is produced from naturally occurring geological or biological Show more



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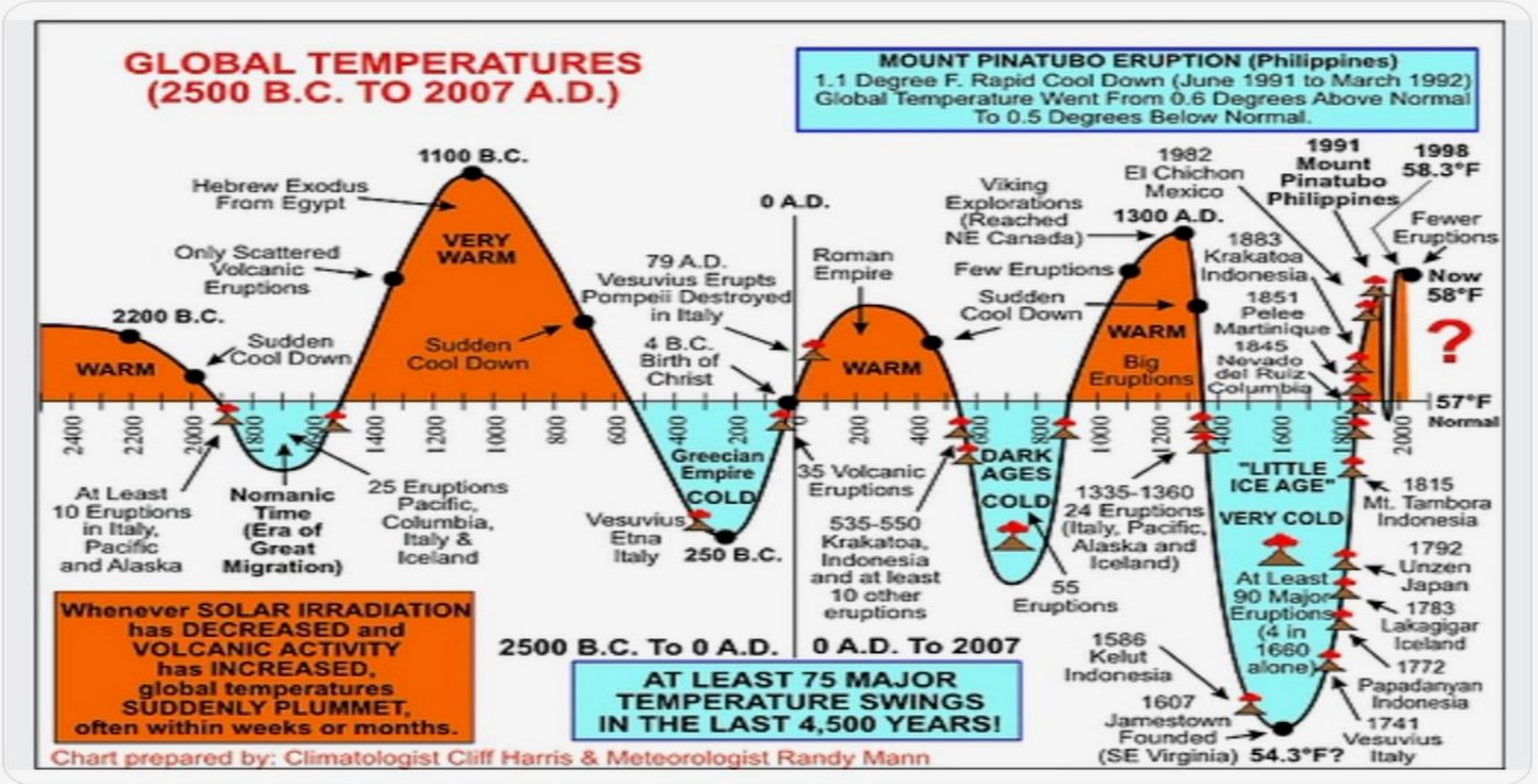
5) What could have caused changes in CO_2 levels over geologic time?

The graph shows emerging human society was not related to CO_2 levels



Peter Clack @PeterDClack · 20h

The turbulent climate over the 4,500 years of the rise of civilisation was entirely unrelated to CO_2 levels, proven by this geological record. Emerging human society had nothing to do with CO_2 levels or the temperature swings throughout this entire time period. Its a swindle.



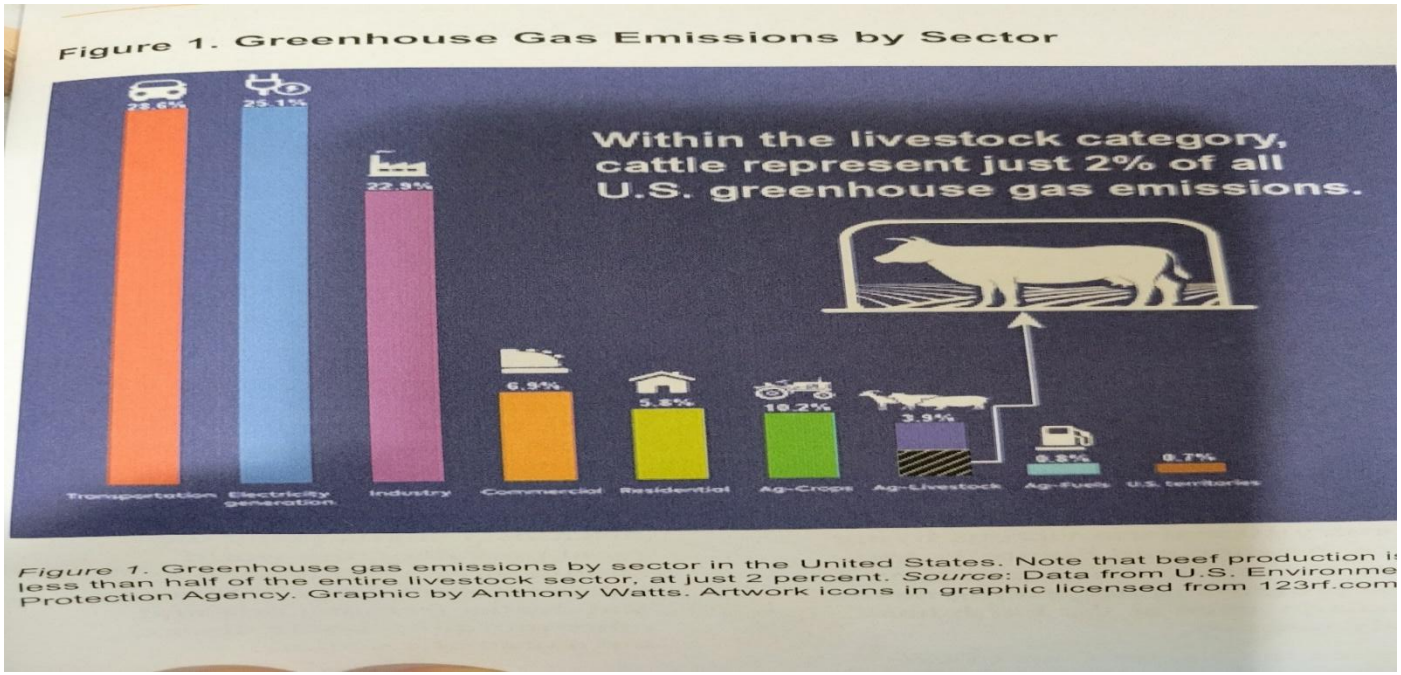
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5) What could have caused changes in CO_2 levels over geologic time?

Present day sources of USA CO_2 emissions

- Green plants remove CO_2 by photosynthesis.
- Living organisms and industrial combustion release CO_2.
- 76.6% of US greenhouse gas emissions come from transportation, electricity generation and Industry.

Greenhouse Gas Emissions by Sector



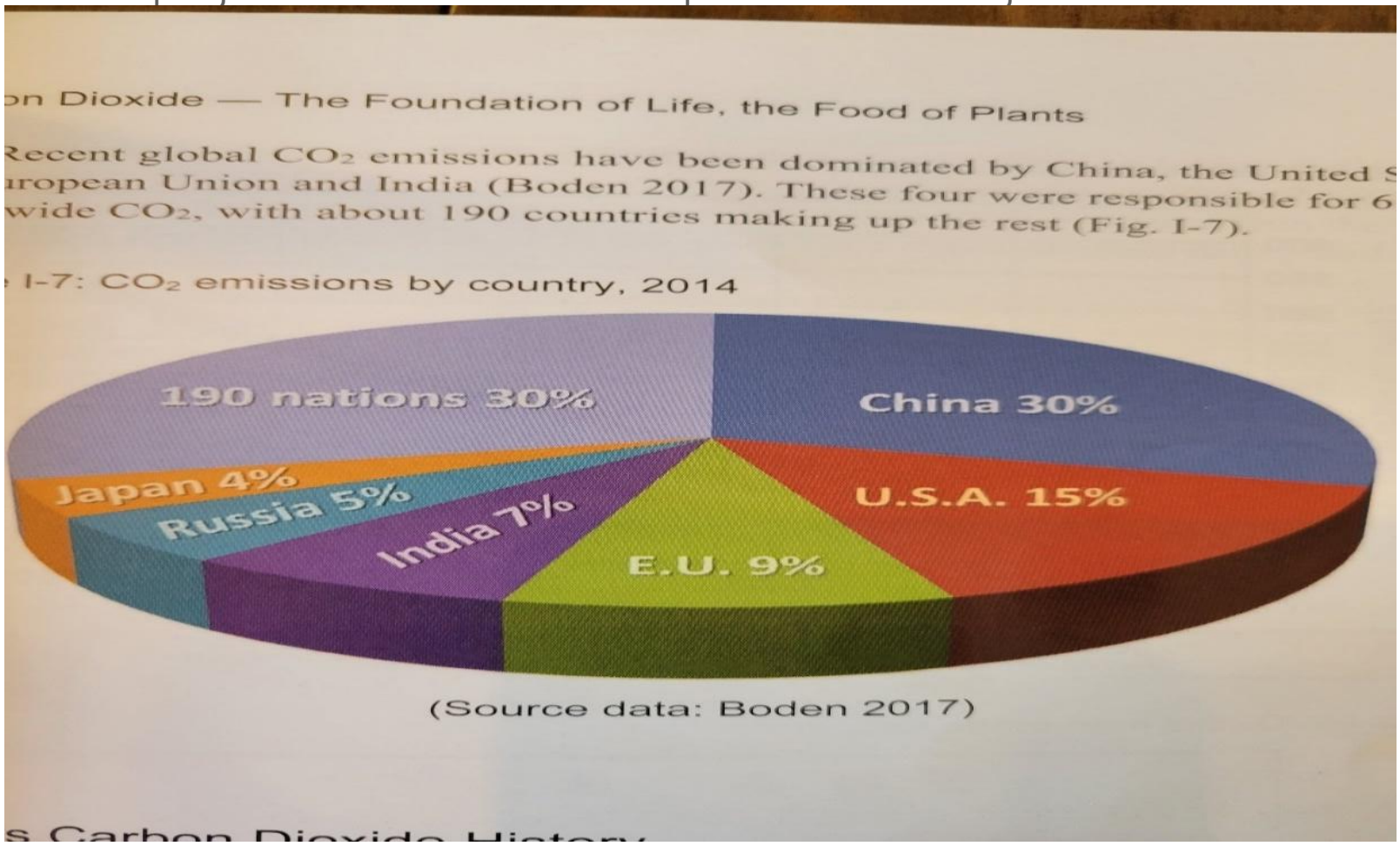
Reference book: Climate at a Glance page 65

Source US Environmental Protection Agency

5) What could have caused changes in CO_2 levels over geologic time?

CO_2 emissions by country 2014

- About 2/3rds of greenhouse gas emissions come from China, India and 3rd world countries.
- The developing world accounts for about 40% of the annual global carbon emissions.



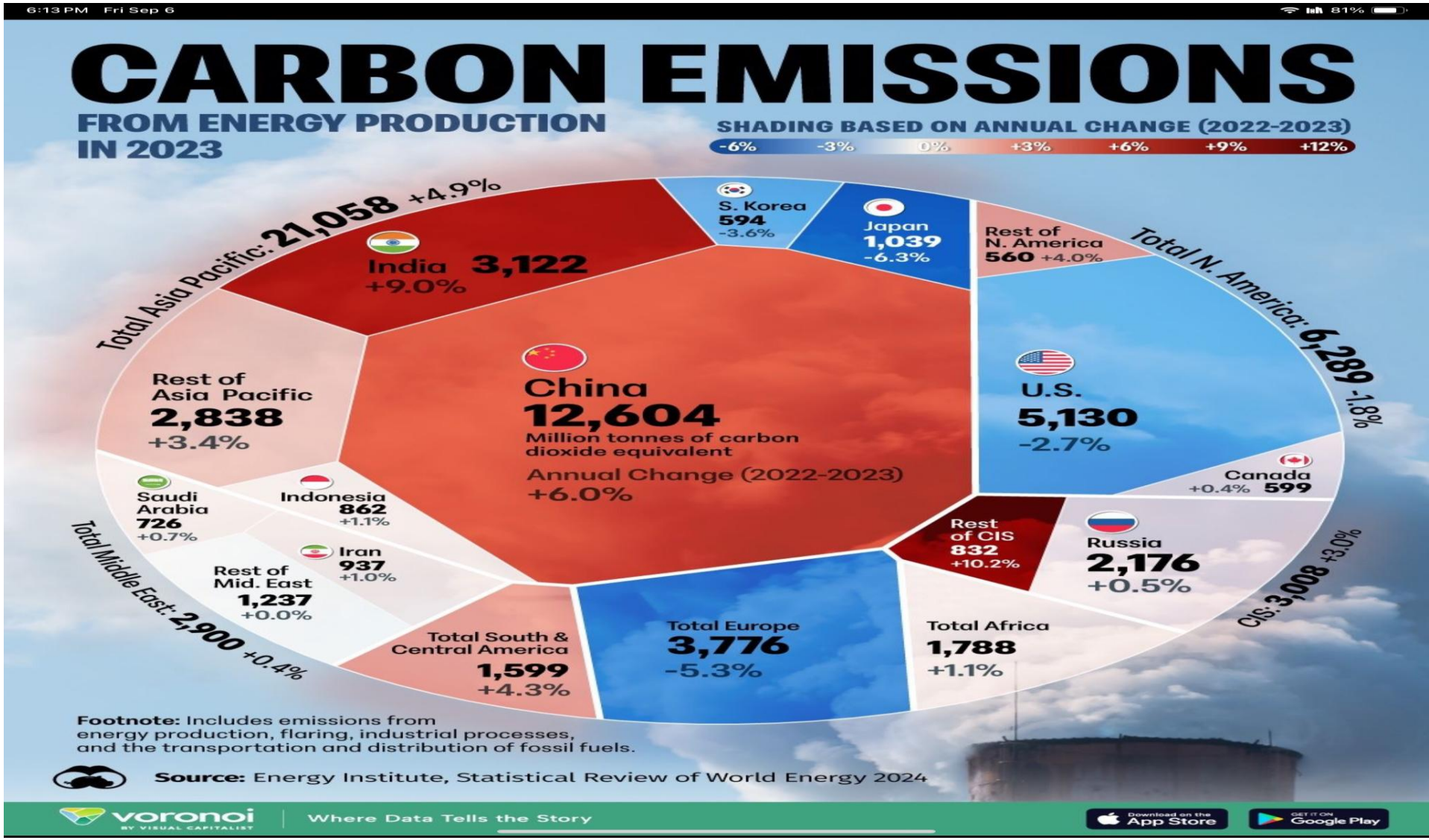
Reference book: Inconvenient Facts page11, Source Boden 2017

Reference book: Cool It Page 11

5) What could have caused changes in CO_2 levels over geologic time?

CO_2 emissions by country 2023

In 2023, 2/3rds of greenhouse gas emissions come from China and Asia Pacific countries



5) What could have caused changes in CO_2 levels over geologic time?

Comments CO_2 and Climate Change

- The Earth is massive enough to hold onto a tenuous atmosphere. In this gaseous soup are elements and a few compounds. Nitrogen is the most plentiful element, followed by oxygen and then the inert gases argon and helium. Carbon dioxide is just a bit down the list and comprises just over 0.04% of the entire atmosphere – out of every *ten thousand* molecules of air, only *four* are carbon dioxide.
- For earthly animal life, the most important function of the atmosphere is to provide oxygen. It wasn't always this way. The primordial atmosphere was largely devoid of oxygen, which had already been mostly consumed when it combined with hydrogen to create water. Then came photosynthesizing plants. They employ a biochemically complex process that allows plants to combine carbon dioxide with water (the remaining source of hydrogen) to produce various forms of carbohydrates (sugars and fibrous tissues), releasing oxygen as a waste product.
- The process of atmospheric *heat-trapping* is a benefit for *all* life forms. Without this blanket of air and clouds, the surface of the Earth would freeze solid *every* night.
- Over time, the accumulated vegetable biomass decomposes and releases methane gas (CH_4), which is highly flammable. When burned (oxidized), methane produces water and carbon dioxide, among other trace compounds such as carbon *monoxide*. Other ultimate products of plant decomposition are coal and petroleum. Peat bogs are mostly found in the northern hemisphere and can be used directly as fuel. Many ancient peat bogs became buried beneath sediment, where they morphed into coal deposits — archetypal of the term "fossil" fuel. In rare cases, pure crystals of carbon have formed in diamond deposits.

Reference: **Oh, that pesky carbon dioxide! - American Thinker**

5) What could have caused changes in CO_2 levels over geologic time?

Comments CO_2 and Climate Change

- When a hydrocarbon is oxidized, water is always part of the exhaust — hence the condensation trails produced by jet aircraft. Carbon dioxide is also produced. What is often not mentioned is that *all* of the carbon in fossil fuels got there due to the extraction of atmospheric carbon dioxide by photosynthesis. It just keeps cycling around and around.
- When sugary water (such as fruit juice or diluted barley malt extract) is digested by yeast, both alcohol (ethanol) and carbon dioxide are produced. The primary source of *commercial* carbon dioxide is the beer-brewing industry. During the recent supply chain crunch, there was a shortage of soda pop because less beer was being brewed and thus less carbon dioxide was available to inject the necessary fizz into these products. Carbon dioxide is also fairly inert, so it's safe for us to swallow and also use in fire extinguishers. And because it is so inert, it takes such a complex biochemical process as photosynthesis to separate it into carbon and oxygen.
- Climate change, however, is a given. Were climate *not* to change, there would never have been ice ages and their interstitial warm periods, the causes of which are still not fully understood.
- Since the beginning of the Industrial Revolution in the late 1700s, the average concentration of Earth's atmospheric carbon dioxide (CO_2) has increased by about 140 parts per million by volume (ppmv) to the current amount of about 420 ppmv. This is much higher than concentrations of the past 800,000 years, which rarely exceeded 300 ppmv, according to ice core data. The CO_2 Coalition presents multiple lines of scientific evidence demonstrating conclusively that the modern increase in CO_2 is mainly due to anthropogenic emissions.

Reference: **Oh, that pesky carbon dioxide! - American**

Thinkerhttps://co2coalition.org/publications/human-contribution-to-atmospheric-co2-how-human-emissions-are-restoring-vital-atmospheric-co2/

5) What could have caused changes in CO_2 levels over geologic time?

Summary Observations

- Over time, colliding and spreading continental and oceanic plates, volcanoes and warm oceans have added CO_2 to the Earth's atmosphere.
- At least five times in the past 500 million years, large plate tectonic disturbances caused the immense release of magma, dramatically increasing the level of CO_2.
- El Niño and other ocean currents also increase CO_2 emissions.
- The cold ocean, marine deposition of limestone, chalk and organic-rich shales, oil, gas and coal deposits have absorbed and stored large amounts of CO_2.
- Over geologic time, global temperatures changed independently from changing CO_2 levels. This does not support CO_2 causing these temperature changes.
- Humanity adds to carbon emissions through burning fossil fuels & and industrial activity.
- Transportation, electricity generation and Industry add 70% of USA CO_2 emissions.
- Less than 30% of yearly greenhouse gas emissions by country come from the US, Canada, the EU, the UK and Japan.
- Forest fires, farming irrigation, animals and other events also add to CO_2 emissions.
- Geologic records of the Earth's past do not support a link between temperature and CO_2 levels; life has prospered under much higher CO_2 levels than present today.

Global Warming and CO_2
6 of 11 Questions

Question 6

Is Climate change mainly caused by mankind's emissions of CO_2?



6) Is Climate change mainly caused by mankind's emissions of CO_2?

Climate Overview

- The Earth has experienced climate change long before the appearance of humanity.
- The Earth is recovering from a cold period that began long before mankind-induced CO_2 gases were produced.
- Over the last 7,000 to 8,000 years, temperature changes are consistent with past glacial/interglacial periodicity.
- Profound changes in temperature differences between the poles and equator, with little change in tropical regions.
- The Earth's climate is determined by the Sun's flows of energy into and out of the Earth's atmosphere and surface. Anything that increases or decreases the amount of incoming or outgoing energy causes global temperatures to rise or fall in response. Such climate forces include the Sun and solar activity, transmitted energy, orbital parameters, the Earth's Sun trajectory, planetary perturbations, tilts and wobbles and greenhouse gases.
- Solar activity causes changes in UV, solar wind, magnetic field, sunspots and indirectly cosmic rays and climate.
- Solar activity is measured by the number of sunspots. There have been times when the Sun appears to have ceased to develop sunspots for lengthy periods, including the end of the 17th century to early 18th century, when there was a freezing period during which there were virtually no sunspots. Solar scientists' research shows robust correlations between solar variability and climate change, including directly connecting centennial-scale periods of low solar activity with cooler climates (e.g. Little Ice Age) and periods of high solar activity with warm periods.
- Clouds are the single largest internal factor affecting global temperature, but also the area of greatest uncertainty, which explains the difficulties with climate modelling forecasts. Cloudy days are generally cooler than sunny days.
- The rearrangement of atmospheric pressure, which governs wind patterns and sea-surface temperature, can drastically affect regional and global weather patterns. Their effect on global warming can also be significant
- .Passing stars can also affect the orbital pattern of the Earth, thereby affecting the climate

Reference book: The Real Inconvenient Truth: Chapters 3 and 4Source: Caleb Rossiter PhD Equal warming 1900 to 1950 versus 1950 to 2018
Effects of clouds on atmospheric processes https://co2coalition.org/publications/radiation-transport-in-clouds/
Henrik Svensmark & Nir Shaviv - How the sun regulates our climate – YouTube
An Assessment of the Conventional Global Warming Narrative. -Dr. Richard Lindzen's new paper. Published by the Global Warming Policy Foundation – September 22, 2022 https://phys.org/news/2024-02-stars-orbital-evolution-earth-planets.html

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change

The biggest factor influencing weather and climate patterns on Earth is the Sun.

The sunlight brings heat to the earth and infrared radiation (IR) going to space cools the planet. Some IR is trapped by the atmospheric greenhouse gases. Changes in greenhouse gas concentrations cause changes in outgoing IR.



https://www.youtube.com/embed/1Mj16tiUyI4

Water impact on global temperatures https://youtu.be/4swI8_4LfWc;

https://dailysceptic.org/2025/09/20/sun-and-cosmic-rays-drive-climate-not-co2-says-astrophysicist/

Earth Energy Imbalance: The Sun versus CO_2 - Watts Up With That?

Scientists find cloud feedbacks amplify warming more …

'Godzilla' El Niño could be one of the strongest ever recorded | BBC News

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change

- **The biggest factor influencing weather and climate patterns on Earth is the Sun.** Depending on the Earth's position to the sun at any given time, climate conditions are going to vary dramatically (day/night, seasons, etc)
- NASA states that the Earth's orbit and the resulting changing angle of the Sun's rays (Milankovitch cycles) are the likely cause of long-term changes to Earth's climate. These cycles operate over timescales of tens of thousands or hundreds of thousands of years. The Earth is presently warming from the last ice age.
- The climate system is very complex. Compared to the effects of the Sun and other natural phenomena, mankind's contribution of CO_2 makes a minor impact on the Earth's energy balance and overall climate:

i) Sun's energy and Sunspot energy emissions. There is a close correlation of temperature with solar activity plus longer-term changes (Milankovitch cycles); ii) clouds have 25 times more impact than mankind's CO_2 impact; iii) tectonics and moving plates and associated volcanos; iv) orbital parameters impact on climate orbit, tilt, wobble effect; v) atmospheric and ocean circulations; v) ocean oscillations; vii) wind circulations; viii) total greenhouse gases. The influence of added CO_2 on the climate has only a minor influence on a massive system.

https://www.sott.net/article/420049-NASA-admits-climate-change-occurs-because-of-changes-in-Earths-solar-orbit-not-because-of-SUVs-and-fossil-fuels

Solar Influence on Weather and Climate | Dr. Brian ...

Impact of global factors on climate http://youtu.be/KtjeNvTwYeU

Reference book: Climate All Is Well, All Will Be Well |Jeremy Nieboer pages28, 29

Reference book: The Real Inconvenient Truth: Chapters 3 and 4

Source::Caleb Rossiter PhD Equal warming 1900 to 1950 versus 1950 to 2018

Freeman Dyson https://youtu.be/BiKfWdXXfIs

Henrik Svensmark & Nir Shaviv - How the sun regulates our climate – YouTube

Natural Climate Variability. Does CO_2 Have Any Effect? | Prof. Judith Curry – YouTube

https://www.sott.net/article/420049-NASA-admits-climate-change-occurs-because-of-changes-in-Earths-solar-orbit-not-because-of-SUVs-and-fossil-fuels

https://www.youtube.com/watch?v=b50yv8I6I-g

Importance of Sun on Climate Willie Soon

https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2024GL111500 - Volcanic activity can have a significantly greater effect than CO_2

Feed | CO_2 Coalition Discussion Group Climate Change and Extreme Weather Events Jim Steele

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change

The State of Climate Science: Uncertainty, Complexity, and the Politics That Follow

Greenhouse gases do have an effect on the climate, but the degree of impact relative to other impacts remains in question. Basic radiative physics has been understood for over a century. The question has always been one of magnitude, feedbacks, and the relative importance of natural variability. Solar influences, ocean oscillations, and cloud dynamics remain areas where understanding is incomplete. Clouds in particular—those ubiquitous, ever-changing features of the atmosphere—continue to represent one of the largest sources of uncertainty in climate sensitivity estimates.

Climate models serve as the backbone of long-term projections. They've grown more complex, incorporating atmospheric chemistry, ocean dynamics, and land-use changes with increasing granularity. But complexity is not the same as accuracy. Model ensembles still display a wide spread in climate sensitivity estimates, and their historical performance shows mixed skill depending on the metric chosen. Some runs track observations reasonably well; others overshoot warming trends.

What's often missing in public discussions is the distinction between hindcasting and forecasting. A model tuned to match past data does not necessarily demonstrate predictive skill. Yet much of the confidence conveyed to policymakers rests on scenarios that extend decades into the future, relying on assumptions about emissions, technological change, and socio-economic pathways that are themselves speculative

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change

The State of Climate Science: Uncertainty, Complexity, and the Politics That Follow

Climate science has become deeply intertwined with policy in a way that few other disciplines have. Funding priorities, institutional incentives, and public messaging are all shaped by the perceived urgency of the issue. Governments allocate billions toward mitigation strategies, international agreements hinge on model projections, and entire industries are being reshaped under the banner of decarbonization.

This creates a feedback loop. Scientific findings inform policy, but policy priorities also influence which scientific questions receive attention. Researchers are human; they respond to incentives. When funding agencies emphasize certain outcomes—say, impacts, risks, and worst-case scenarios—it's not surprising that those areas see the most activity. More mundane questions, such as refining baseline measurements or exploring natural variability, tend to attract less attention despite their importance.

Media coverage amplifies this dynamic. Nuance doesn't travel well in headlines. A study suggesting modest uncertainty doesn't generate clicks; a projection of dramatic change does. This skews public perception, giving the impression of greater consensus and precision than the science necessarily supports. It also discourages open debate, as dissenting views are framed as obstruction rather than part of the scientific process.

The State of Climate Science: Uncertainty, Complexity, and the Politics That Follow Anthony Watts

6) Is Climate change mainly caused by mankind's emissions of CO_2?

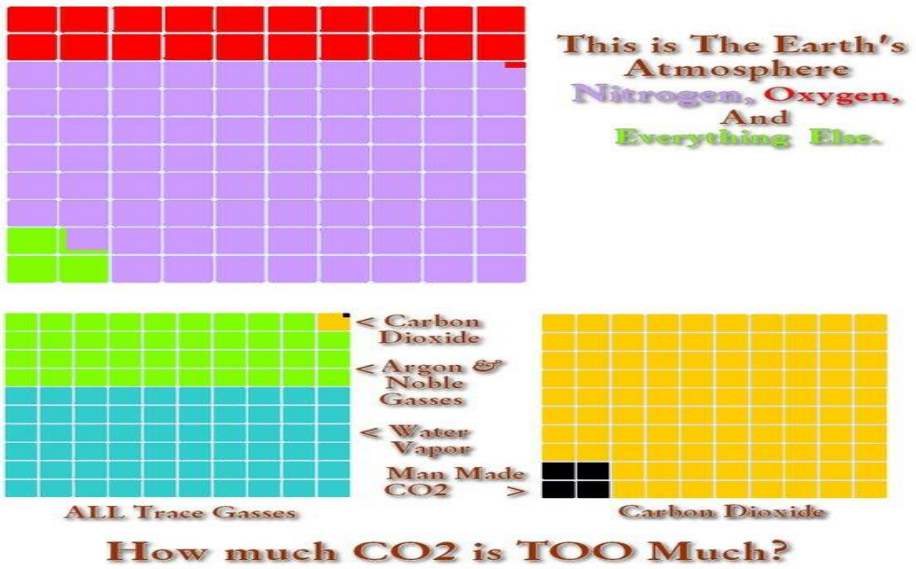
Ocean currents, clouds and the urban heat island effects also impact Climate Change

- Cycles of changes in the Earth's ellipsoid orbit cause ice ages every 100,000 years and the changing tilt of the Earth on a 40,000-year cycle causes an increase or decrease in the intensity of an Ice Age
- Prolonged periods of reduced solar activity, termed a Grand Solar Minimum, contributed to the Little Ice Age. Long periods of increased solar activity, termed a Grand Solar Maximum, helped pull the Earth out of the Little Ice Age and contributed to the 20th century global warming.
- The El-Niño Southern Oscillation is so big it drives more than weather; it impacts a longer-term climate change cycle of building up heat on the surface of the Pacific Ocean that warms the atmosphere (El Niño) and then a cooling of the ocean surface, which cools the atmosphere (El Niña). The El Niño effect could explain all the global warming since 1859.
- Other factors impacting the climate include ocean currents, clouds and the urban heat island effect.
- Ocean currents have a major impact on temperatures. However, CO_2 is not a factor in heating or cooling the ocean, as CO_2 gives off longwave infrared radiation, which can only penetrate the ocean's surface by less than a millimetre. This longwave radiation is then immediately released back into the atmosphere. Only the Sun's ultraviolet, visible, and short-wavelength infrared can penetrate many metres into the ocean's surface and heat the water.
- Clouds also impact temperature. Water-rich clouds over the tropical oceans have the greatest cooling effect and low-water ice clouds at high altitudes have the strongest warming effect.
- Higher global surface temperatures result in more surface water being evaporated into water vapour, which enables more water-rich cloud formations when the water vapour condenses. This results in a cooling effect. Nature is dominated by negative feedbacks like this, which mitigate climate change.
- A 1 % change in cloud cover can have the same effect as doubling CO_2 levels.
- Reaching so-called "tipping points" is rare, as complex natural balances of multiple variables have mitigated changes and have done so throughout geologic time.
- All human permanent settlements also contribute to climate change. The average minimum daily temperatures have been warmer because of the urban heat island effect. Reference book Sunset on Net Zero by Ron Barnby

6) Is Climate change mainly caused by mankind's emissions of CO2?

CO2 takes up a very small 0.04% proportion of the Earth's total atmospheric gas

- Greenhouse gas takes up 0.8% of total atmospheric gases; **CO2 represents 5% of greenhouse gas**
- **CO2 represents only 0.04% of the total atmospheric gases The human contribution** to the 0.04% total **is 0.0011%.**
- During the world's history, CO2 levels varied between 0.02% and 0.4%, with some very high excursions
- 0.04% equates to 4 bathtubs volume compared to an Olympic pool's 10,000 bathtubs of water
- All **greenhouse gases** (5% CO2) **keep the world warm,** absorbing heat and radiating it back to Earth, warming the surface and atmosphere. Humans could not exist on Earth without this warming effect



Atmospheric Composition

	% ppmv	
$N_2 + O_2$	99%	78% N_2 21% O_2. Largely invisible to infrared rays
H_2O	0.4%	Varies greatly with location and weather, 0% in cold regions, 5% in the warm tropics (50,000 ppm)
CO_2 total	0.0397%	Increased by 22% 1990-2025 [320] to reach 427ppm
CO_2 anthro	0.0011%	The anthropogenic contribution is 5.3% of the total, 50% of which is absorbed by natural ecosystems = 0.04x 0.053x0.5 [321]
CH_4	0.000179%	Increased by 14% 1990-2025, to reach 1.94ppm
Other gases	0.94%	Mostly Argon, which along with other trace gases are inert and don't do much in the atmosphere

https://www.instagram.com/reel/DRZvEfsjnRj/?igsh=bWV2bm1ubDFjYzlq

https://www.researchgate.net/publication/335418316_What_Humans_Contribute_to_Atmospheric_CO2_Comparison_of_Carbon_Cycle_Models_with_Observations

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors impacting Climate Change over last 66 Million Years

Geoscientist Tom Gallagher applied his knowledge of a changing Earth, including changing ocean currents and plate tectonics, to help understand ever-changing historical Earth temperatures.

There was clearly an increase in temperatures from the Paleocene (ending about 56 million years ago) to the Early Eocene Climate Optimum (ending about 45 million years ago). Then came a general decline in temperature trends with the East Antarctic forming about 34 million years ago, a long period of stable temperatures ending in the Miocene Climate Optimum (about 14 million years ago) when the West Antarctic Ice Sheet began to form. The temperatures continued to decline, with variation until about 3.5 million years ago, with the formation of the Northern Ice Sheet. In general, temperatures have fallen since, with even stronger variation.

Oceans are the primary mechanism for storing solar energy on Earth. When the Earth warms, the oceans warm. Conversely, when the Earth cools, the oceans cool. The principal change in ocean currents was change in the Earth's land masses. During the warmest period, the Eocene, the warmest epoch in the past 66 million years, the equatorial currents ran strongly, indicating little divergence to the north and south. Heat accumulates from the tropical sun. Neither polar region had ice, and the North Pole was covered by an isolated, freshwater lake. Antarctica had not yet formed, and the South Pole was ice-free. What changed was the gradual blocking of the equatorial currents that led to a decline in Earth's temperatures.

Professor Ian Plimer emphasizes that climate change is influenced by numerous factors beyond human activity, such as volcanic activity, ocean currents, and solar cycles.

Reference: http://www.sepp.org/twtwfiles/2023/TWTW%207-15-23.pdf
https://wattsupwiththat.com/2023/07/24/weekly-climate-and-energy-news-roundup-560/
Professor Ian Plimer's book "Climate Change: The Facts 2025,"

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Over the last 67 Million Years, the Earth has been over 10C higher than today

Gallagher concludes that the following causes Climate Change:

- Solar cycles – The sun controls the energy system; Solar cycles govern longer-term climate change.
- Oceans control energy storage
- Water in all phases drives the energy cycle of the Climate.
- Continental Drift has shaped major steps in climate change over the past 67 million years.
- CO_2 and Temperature proxies do not correlate in paleoclimate data.
- Until recently, CO_2 was produced by volcanoes and oceans, with volcanoes heavy in C-13
- Catalysts such as Clouds and vegetation modify cycles.

Over the last 66 million years, there have been four distinct periods or Climate States:

- Hot house: 56 to 47 million years ago (Mya), more than 10 °C above today
- Warm house: 66 to 56 Mya and 47 to 34 Mya
- Cool house 34 to 3.3 Mya Warmer than today
- Icehouse: 5 °C below with the beginning of the Pleistocene (closing of the Panama seaway 3.3 MYA ago).
- Our current global condition is Wet, Warm, Non-glacial Time when Vegetation and Civilization thrive.

If governments claim their policies address the causes of climate change, then their policies must include all these factors, and then CO_2 will be relegated to a bit player.

Reference: http://www.sepp.org/twtwfiles/2023/TWTW%207-15-23.pdf

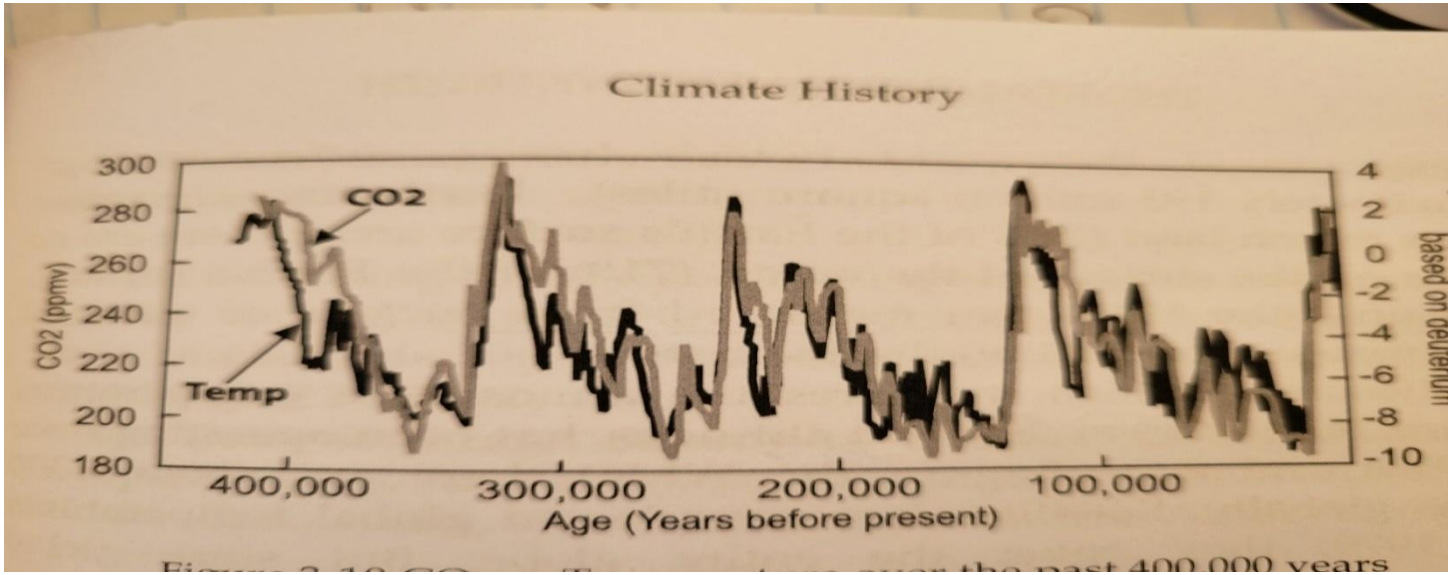
https://www.dropbox.com/scl/fi/j2k014cejej8tabi4elt7/TwoClimateFacts.docx?rlkey=0w1uf4o81wkg6vqy1qe5s8yxx&e=1&dl=0

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Glacier cores show **temperature changed before CO_2 changed***

- Changing glaciation periods are tied to changes in Earth's orbit and have occurred over the last 800,000 years
- As seen in historic ice records, **CO_2 increases occur in response to temperature** increases (650 to 6000 years later) and therefore cannot cause these preceding temperature increases (Malkovich cycles based on Earth's orbit changes)
- **As temperature increases, oceans release CO_2 into the atmosphere.* Henry's Law: Warming water holds less gas.**

CO_2 vs Temperature Over the Past 400,000 Years



Reference book:: The Inconvenient Real Truth page 80, 81

Source Adapted from U.S.Dept. of Energy: No one has shown human emissions of CO_2 drive Global warming

ehttps://www.facebook.com/share/19rXoXP3Wa/ https://www.facebook.com/share/19rXoXP3Wa/

https://chatgpt.com/share/67a1d406-e52c-8005-b686-261a8b0e9faa

The Truth about Atmospheric Carbon Dioxide with Dr. Matthew M. Wielicki

https://euanmearns.com/the-vostok-ice-core-and-the-14000-year-co2-time-lag/

* **Try an experiment: Fill 2 glasses with soda water, put 1 in fridge and 1 in a warm room – drink and see the differences in fizziness**

6) Is Climate change mainly caused by mankind's emissions of CO2?

The CO2 Climate Change Narrative Needs Questioning - Dr. Coleman

When Climate Data Don't Match the Climate Story

For decades we've been told a simple story: more carbon dioxide means higher global temperatures. That simplicity proved politically convincing and underpins the most expensive set of policies in modern history, covering Net Zero targets, taxes and vast subsidies to decarbonise industry, energy and transport within a generation. But what if that core assumption is far less robust than advertised?

No matter how elegant a theory looks, you still **test it against hard data**. If the numbers don't confirm the model, the model gives way, not the other way around. Since the 19th Century both CO_2 and global temperatures have risen. The correlation is visually potent. But this can be deceptive. Two trending variables will often appear tightly linked even when the relationship is entirely coincidental. Therefore, it is important to examine how annual changes relate to each other. Does each year's increase in CO_2 reliably produce a corresponding nudge in temperature? When we look at the data since reliable measurements began around 1960, the answer is awkward. CO_2 has risen sharply, yet the rate of temperature change has not moved in lockstep. In fact, the annual changes diverge. If CO_2 were the master control knob, you would expect accelerations in CO_2 to march closely with accelerations in temperature. They don't. The famous correlation appears, at least in part, to be a statistical mirage.

Then comes **causality**. For CO_2 to be the principal driver of warming, changes in **CO must consistently lead changes in temperature**. You can't have the thermometer moving first. Yet simple regressions show no clear lead-lag pattern in the levels. Annual changes and temperature movements often lead to changes in CO_2, not the other way round.

'Anthropogenic warming' cannot be observed; models infer it. But because those same models assume that solar and volcanic effects explain everything that isn't CO_2 and are tuned to match past temperatures, any conclusions risk circularity. The theory looks right because it was effectively built into the machinery from the beginning.

Dr Les Coleman is a research fellow at the University of Melbourne and author of eight books on investment, research, risk management and biography

6) Is Climate change mainly caused by mankind's emissions of CO_2?

The CO_2 Climate Change Narrative Needs Questioning - Dr . Coleman

When Climate Data Don't Match the Climate Story

So what does explain temperature movements in the data? Three variables with strong and persistent statistical links to temperature are the Atlantic Multidecadal Oscillation (a long-lasting pattern in North Atlantic sea-surface temperatures), atmospheric humidity and, interestingly, global cereal production. Regressions using both levels and annual changes show these variables have clearer, more stable relationships with temperature than CO_2 does. This doesn't 'disprove' CO_2's role; it simply shows that the empirical picture is far more complex than the official narrative suggests.

The climate debate has become dominated by model-driven certainty. In most fields, relying almost entirely on internally calibrated models with limited independent empirical challenge would be treated as a recipe for groupthink. In climate policy, it has become normal.

The practical implications are huge. Global policy is premised on a near-linear relationship between cumulative CO_2 and temperature. But when the relationship is confronted with historical data, it looks surprisingly fragile. The promised temperature returns on emissions cuts may be much smaller than advertised, despite the economic and social costs. When a model drives trillion-dollar exposures, prudent institutions demand independent validation, stress-testing and transparency about uncertainty. Climate policy deserves at least a level of scrutiny be applied.

A prudent approach would treat the dominant CO_2 narrative as a hypothesis rather than a revealed truth. That means diversifying policy: more emphasis on adaptation; more focus on resilient infrastructure; and greater use of 'no-regrets' measures that pass cost-benefit tests

When a researcher can take publicly available climate data, apply standard analytical methods and find that the central claim of global policy doesn't survive basic statistical scrutiny, it is a sign that we need more open debate, not less.

Dr Les Coleman is a research fellow at the University of Melbourne and author of eight books on investment, research, risk management and biography.

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change - Dr. Lindzen

"Technical paper 5, The Global Warming Policy Foundation Dr Lindzen Abstract

The one-dimensional picture of the greenhouse effect and the role of carbon dioxide in this mechanism dominates current depictions of climate and global warming. We briefly review this picture. [See attached document.] We then discuss the shortcomings of this approach in dealing with the three-dimensional climate system. One problem is determining what temperature on the real Earth corresponds to the temperature in the one-dimensional treatment. This, in turn, leads to the traditional recognition that the Earth has, in fact, many climate regimes at present. Moreover, there have been profound changes in the temperature difference between the tropics and polar regions over millennia, but at the same time, the temperature of the tropical regions has remained little changed. The popular narrative assumes that small changes in the tropics are amplified at high latitudes. There is no basis for this assumption.

Rather, the difference is determined by dynamic heat fluxes in the atmosphere and oceans, with the controlling flux due to baroclinic instability in the atmosphere. Changes in mean temperature are primarily due to changes in the tropic-to-pole difference, and not to changes in the greenhouse effect. The stability of tropical temperatures in the face of strongly varying heat fluxes out from those latitudes points to the existence of strong negative feedbacks in the radiative-convective response of the tropics. Finally, we will comment on the so-called impacts of climate change.

Dr. Lindzen's assessment addresses the following points:

1. The popular narrative
2. What is the Earth's temperature?
3. What is the Earth's climate?
4. What determines the tropics-pole temperature difference?
5. What produces the stability of the tropical temperature?
6. Where does CO_2 fit in the climate?
7. Impacts
8. Where does this leave us?"

Dr. Lindzen's assessments: 2022 09 22 Lindzen-global-warming-narrative

https://www.youtube.com/watch?v=DYWrehjaMFQ

https://youtu.be/H5doZhlB7PE?si=JaXeofrZOQ2HzLVX

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change – Dr. Clouser

Mr. John Clauser, who recently became a recipient of the 2022 Nobel Prize in Physics for his contributions to quantum mechanics, holds degrees from Caltech and Columbia University, states the following:

- Cloud cover has a profound effect on the Earth's heat input because the clouds reflect a massive amount of light back out into space. While many theories of anthropogenic climate change focus primarily on the impact of human-produced CO2, Mr. Clauser argues that these models overlook the significance of cloud dynamics. satellite images consistently show wide variances in cloud cover, which can span anywhere from five to 95 percent of the Earth's surface.
- "The cloud cover fraction fluctuates quite dramatically on daily and weekly timescales. We call this weather. You can't have weather without having clouds," Clouds play a paramount role in regulating the Earth's temperature, serving as a "cloud-sunlight-reflectivity thermostat" that "controls the climate, controls the temperature of the earth, and stabilizes it very powerfully and very dramatically."
- With two-thirds of the Earth being oceanic, the ocean becomes instrumental in cloud formation.
- Minimal clouds result in heightened sunlight exposure to the ocean, triggering increased evaporation and subsequent cloud formation, resulting in more clouds. On the contrary, abundant clouds reduce this sunlight, thus curbing evaporation rates and cloud formation, resulting in fewer clouds, Mr. Clauser explains. This balance acts like a natural thermostat for the Earth's temperature, he said.
- Mr. Clauser contends that this "thermostat" mechanism has a vastly greater influence on Earth's temperature than the effect of CO2 or methane. He presented to The Epoch Times preliminary calculations that suggest that the impact of this cloud-reflectivity mechanism might overshadow CO2's influence by more than 100 or even 200 times.

https://www.theepochtimes.com/us/nobel-winner-refutes-climate-change-narrative-points-out-ignored-factor-5486267?utm_source=Morningbrief&src_src=Morningbrief&utm_campaign=mb-2023-09-10&src_cmp=mb-2023-09-10&utm_medium=email&est=zxLxigdHW2P7Hy0XW1vWNkCT0dzF8hCq9ubtc8Fm%2B9sAXQSi%2BgUchDd0h1odjThySHobrA%3D%3D

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change – Dr. Ole Humlum

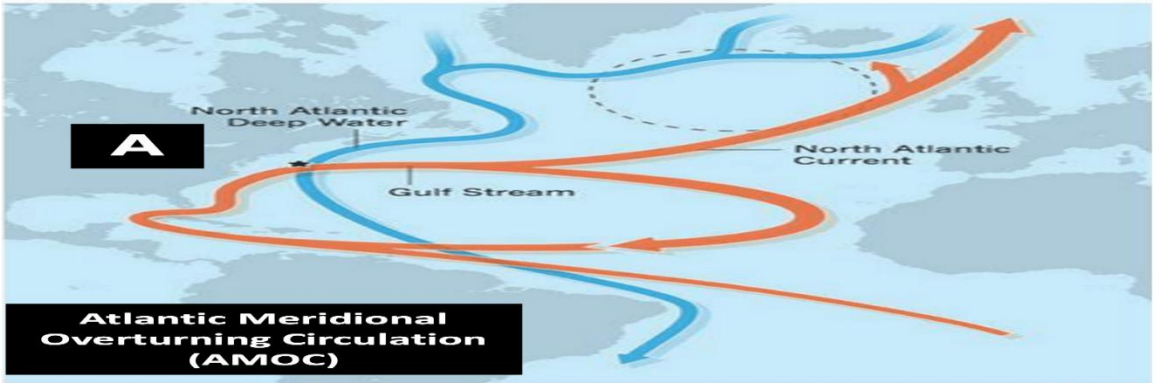
The global climate system represents a multifaceted system, involving the sun, planets, atmosphere, oceans, land, geological processes, biological life, and complex interactions between them. Many components and their mutual coupling are still not fully understood or perhaps not even recognised. Among all these influences, human CO_2 emissions have, in all probability, contributed only a little to the current warming. In fact, believing that one minor constituent of the atmosphere (CO_2) controls nearly all aspects of climate is amazingly naïve and entirely unrealistic. The global climate has remained in a quasi-stable condition within certain limits for millions of years, although with important variations playing out over periods ranging from years to centuries, or more, but the global climate has never been in a fully stable state without change. Modern observations show that this normal behaviour is also characterizing recent years, including 2024, and there is no observational evidence for any global climate crisis. Our world should consider focusing on real and much more pressing problems than a fictional climate crisis.

Dr. Ole Humlum former Professor of Physical Geography at the University Centre in Svalbard, Norway, and Emeritus Professor of Physical Geography, University of Oslo, Norway.
GWPF-StateOfTheClimate2024_Humlum_SubmittedVersion20250307.pdf

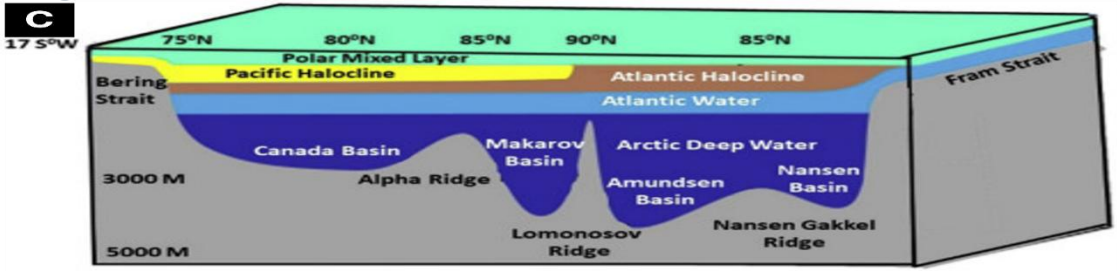
6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change – Jim Steele

- The wind-driven surface flow of the Atlantic Meridional Overturning Circulation (AMOC) brings precious warmth from the tropics towards the Arctic & enables a milder climate in Europe and North America. It's the oceans that tremendously effect climate and create temperature changes that cannot be explained by a CO_2 greenhouse effect.



- The AMOC is unique because 1) it carries tropical heat from the south Atlantic, across the equator into the north Atlantic and Arctic Ocean (red currents, graphic A). 2) it creates a reservoir of warm Atlantic water at 100 to 900 meters depth in the Arctic Ocean capable of melting all sea ice 4 times over (graphic C). 3) Because the Atlantic is saltier than the Pacific, it becomes dense enough to sink to the ocean floor when it cools, creating the pressure that drives a deep return current back to the Antarctic (blue currents, graphic A).

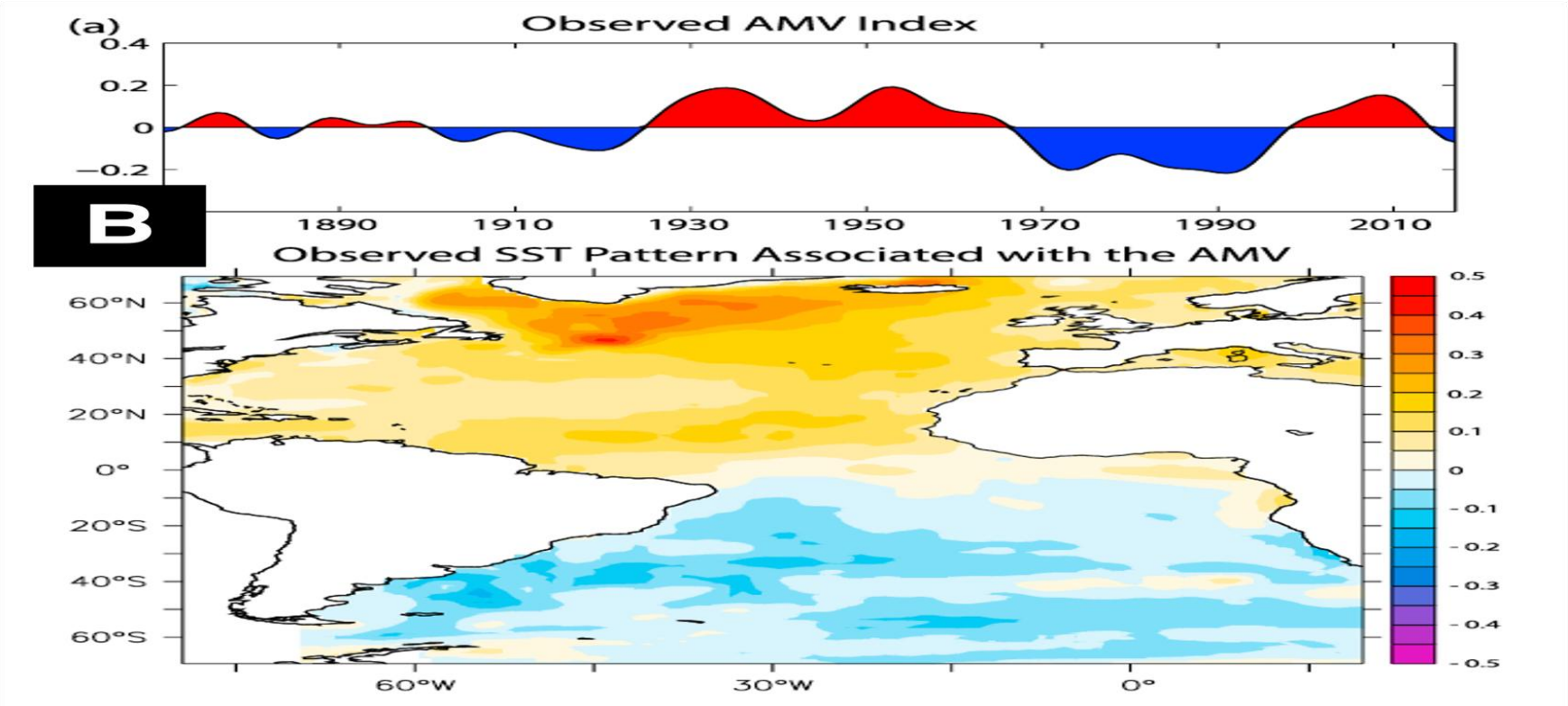


DCO2 Coalition report by Jim Steel December, 2024

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change – Jim Steele

- When the AMOC slows down, it delivers less heat to the Arctic. Now, a growing ocean cold spot south of Greenland suggests the AMOC is indeed slowing down again. To protect global warming narratives, climate alarmists like Stefan Rahmstorf and Michel Mann push the idea that global warming is causing the cooling and that rising CO_2 will soon cause a catastrophic AMOC collapse that freezes Europe and disrupts global climates. But the variations in the AMOC's heat transport have been happening for millennia and do not correlate with changing CO_2 concentrations.

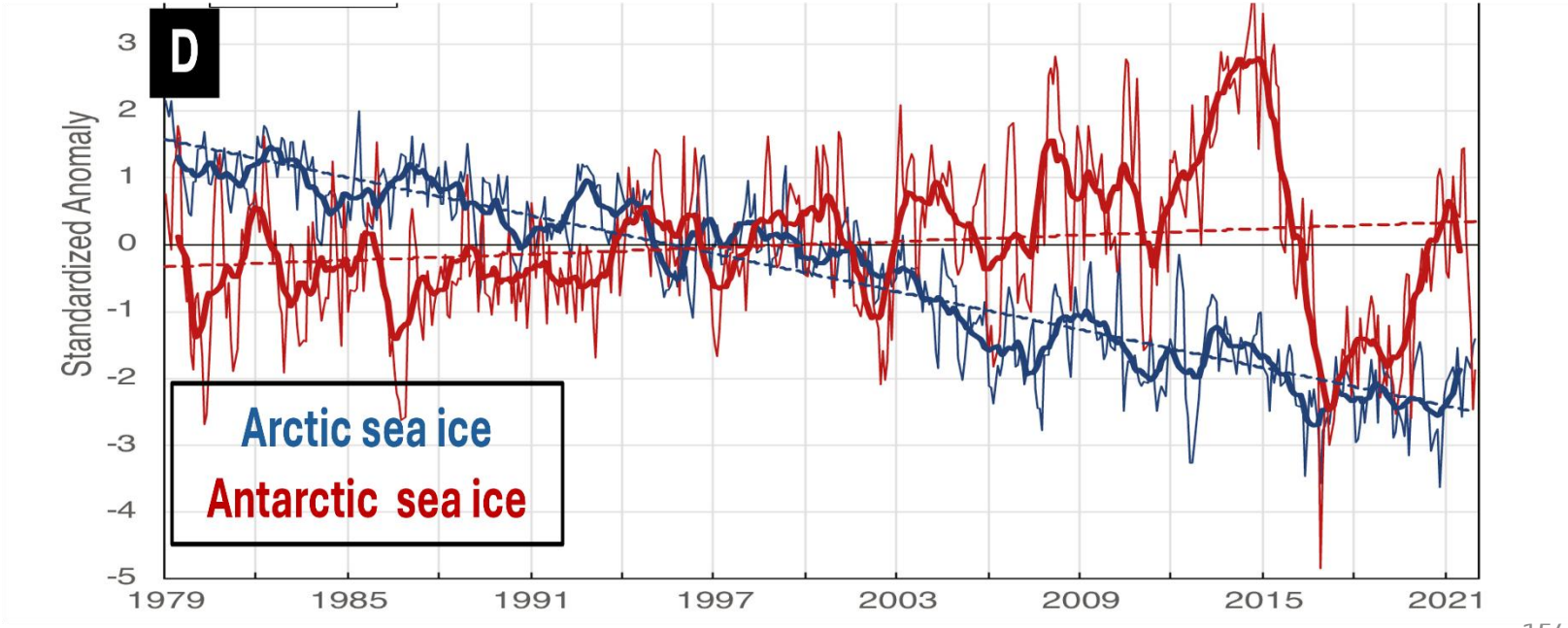


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6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change – Jim Steele

- Most scientists believe varying AMOC heat transport causes the global see-saw effect, contributing to the Atlantic Multidecadal Variability (AMV) (graphic B). When the AMOC strengthens, it also pirates more warmth from the South Atlantic. The north Atlantic then warms while the south Atlantic cools. During the 1930s & 40s, the North Atlantic warmed and Arctic sea-ice retreated, similar to what is observed today. During the 1970s and 80s, the AMV cycled to cool the north Atlantic and Norwegian glaciers grew, prompting several scientists to warn we were headed for a new ice age. In the 1990s, as the AMV cycled and the Atlantic warmed again, the new fear was global warming. Blinkered scientists blamed rising CO_2 for the AMOC's effects. Most ignored the fact that Arctic sea-ice was melting mostly where warm Atlantic water entered the Arctic and downplayed the AMOC see-saw effect that was redistributing heat and causing Antarctic sea-ice to simultaneously increase (graphic D).

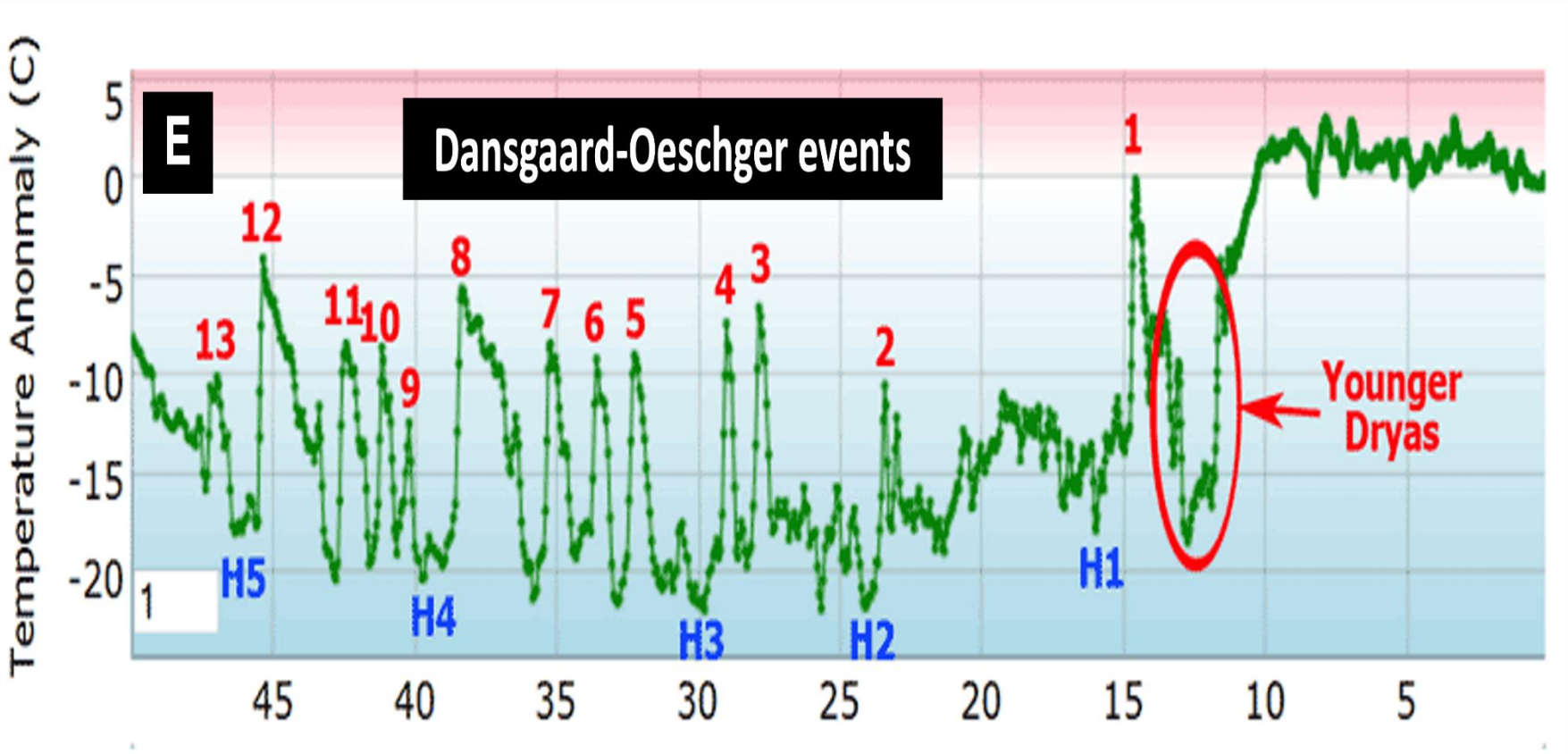


DCO2 Coalition report by Jim Steel December, 2024

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change – Jim Steele

- Nonetheless, those changes provided the ammunition for drama queens and eco-loons like Roger Hallam to create the Extinction Rebellion and Just Stop Oil movements. Ignorant politicians offered government grants to grifting alarmist scientists to demonize CO_2 and blame fossil fuels for the warming that they soon hyped as a crisis. To manipulate our fears, alarmist scientists like Katharine Hayhoe falsely claimed the world is warming faster than ever before, rising 1.1°C (2°F) since 1850. But such claims dishonestly ignore climate history and the effects of the AMOC.



DCO2 Coalition report by Jim Steel December, 2024

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change – Jim Steele

- During the last glacial period, CO_2 concentrations were around 180-200 parts per million (ppm) and temperatures were approximately 11 degrees Fahrenheit (6 degrees Celsius) cooler than today. Yet associated with the Atlantic Meridional Overturning Circulation (AMOC) effects, the Arctic experienced 25 Dansgaard-Oeschger (D-O) events, raising Greenland temperatures by 18 to 27 degrees Fahrenheit (10 to 15 degrees Celsius) in just a few decades. Such rapid warming can only be explained by the sudden ventilation of Atlantic heat transported via the AMOC and stored in the Arctic Ocean.
- As is the case today, the warm, salty Atlantic water is insulated from the surface ice and the atmosphere by a layer of fresh water that prevents the heat of the warm Atlantic water from rising to the surface. As the glaciers grew, the air dried and the flow of fresh river water into the Arctic was reduced, enabling the warm Atlantic water to rise closer to the surface. Coupled with an increased AMOC bringing more heat, Arctic sea ice melted, and its stored heat was released, rapidly raising air temperatures.
- The ebb and flow of the AMOC today is similar but less dramatic than during prior D-O events. It contributes to Arctic sea-ice melt, which enables stored heat to be released. The Arctic temperatures then rose 2 to 4 times faster than anywhere else. The current slowing of the AMOC is simply part of a natural oscillating dynamic.
- Its current slowdown will soon increase Arctic sea-ice and lower temperatures naturally without Net Zero mandates or sun blocking. Whether we burn more or less fossil fuels, it will not change the AMOC.

6) Is Climate change mainly caused by mankind's emissions of CO2?

Factors that impact Climate Change – Peter Clack

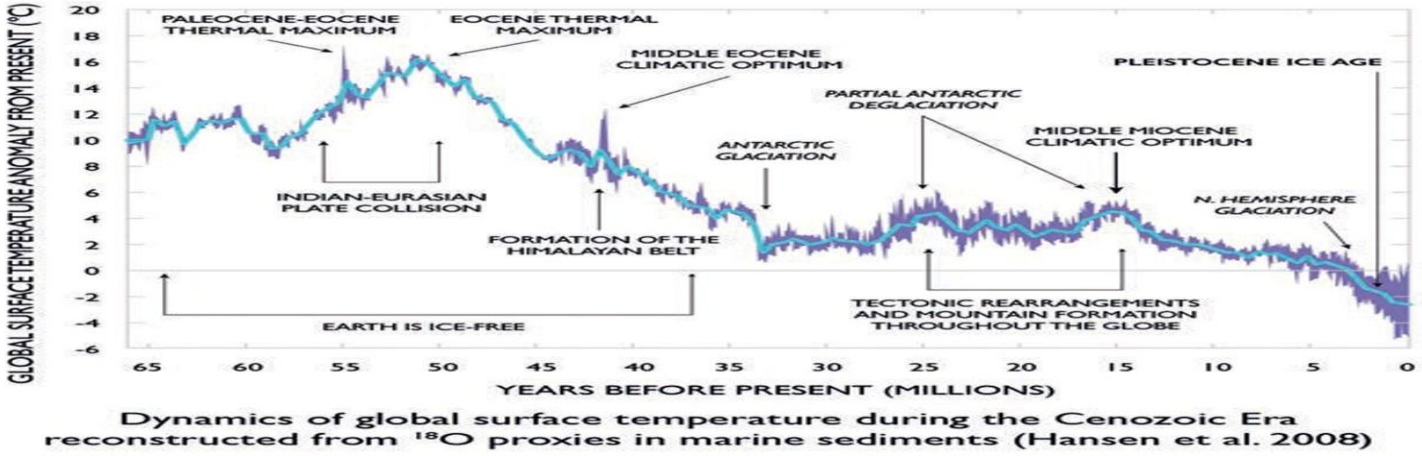
- The foundational driver of our current era isn't a single trace gas (CO_2) - it's structural. Long-term cooling since the Eocene ended (56 to 33.9 million years ago) is actually a story of Earth's plumbing, which began to readjust after the isolation of Antarctica 34 million years ago. This opened up Drake Passage creating the Antarctic Circumpolar Current, thermally isolating the south pole and initiating the growth of ice sheets.
- In parallel events, the closure of the Isthmus of Panama and the drifting of continents interrupted the equatorial 'warm belt' flow. This redirected warm currents toward the poles and fundamentally altered the ocean's conveyor belt (the Thermohaline Circulation). Another vast factor was the massive uplift of the Tibetan Plateau due to the impact of the Indian subcontinent (55 mya). This didn't just change wind patterns, it created a geological vacuum where weathering has been sucking CO_2 out of the atmosphere for millions of years. This is why we see the extent of 'CO_2 starvation' during the current Quaternary glaciation (from 2.58 mya)
- These are the real factors driving our world's global 'climate'.

pic.x.com/IhzA7Xbx2y

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change – Peter Clack

- Within this cooling tectonic global framework, the heartbeat of the planet was being set by the (Milutin) Milanković Cycles, not CO_2. These orbital cycle anomalies dictate the distribution of solar energy through changes in Earth's eccentricity, axial tilt (obliquity) and precession. They are the primary cause of the glacial-interglacial 'yo-yo' effect of the last 2.6 million years (the Quaternary). Human CO_2 is only a footnote in a planetary system that can move miles of ice across continents based purely on orbital mechanics and oceanic inertia.



Dynamics of global surface temperature during the Cenozoic Era reconstructed from ^{18}O proxies in marine sediments (Hansen et al. 2008)

Figure 25. Until Antarctic glaciation began 33 million years ago, the Earth had been completely ice-free for more than 200 million years, since the end of the Karoo Ice Age. The present Pleistocene Ice Age is considered to have begun when the Arctic began to freeze about 2.6 million years ago. the very slight warming of 1.2°C since the year 1850 to 1.2°C (2.2°F), is inconsequential compared to the long history of the planet (After Hansen, et al., 2008).*

* Hansen, et al., "Target Atmospheric COsub2: Where Should Humanity Aim?, "The Open Atmosphere Science Journal," 2008, 2, pp217-231. https://pubs.giss.nasa.gov/docs/2008/2008_Hansen_ha00410c.pdf.

pic.x.com/ifi2A/X0x2y

- The oceans also impact temperature, having a vast influence on heat retention and energy transfer and water vapour dominates the world's atmospheric character, driving rainfall, storms and all weather. The oceans covering 71% of the surface to an average depth of 2.3-2.4 miles. pic.x.com/HU030Bpwph

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change – Javier Vinos

- Through the development of future scenarios tied to questionable climate models, the IPCC has decisively contributed to an "emergency discourse" supported by three powerful, yet unproven, scientific concepts:

  i) the idea of a temperature threshold, a safe limit beyond which irreversible climate damage will take place. This arbitrary threshold has been set at +1.5 °C.

  Ii) the idea of an allowable carbon budget to stay below a given temperature, despite the lack of an established and accepted value of CO_2 climate sensitivity. This allows the translation of temperature limits into policies to restrict greenhouse gas emissions.

  Iii) the idea of a climate crisis deadline, derived from the calculation of when some temperature threshold will be crossed for a given level of emissions.

- The UN Secretary General urged all countries to declare a climate emergency until the world has reached net-zero CO_2 emissions.
- Given the stakes, Javier Vinos feels it is our scientific duty to make sure we properly understand the totality of climate change, noting that climate change has always happened.
- Javier Vinos suggests that the claims of the IPCC and resulting policies should be met with a high degree of skepticism
- In his book, Javier Vinos discusses the **evidence for both the presence of and causes of numerous natural climate cycles and other natural climate events that have had a profound effect on the past climate of the Earth and their relevance to present climate change, none of which could be caused by mankind's emissions of CO_2.**

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change – Javier Vinos

The Earth has experienced a number of different cycles of climate change. These climate change cycles are not related to or materially affected by changes in CO_2 levels or changes.

- First, he discusses the glacial-interglacial cycle in the Pleistocene and potential issues related to the widely accepted explanation that these glacial period changes are tied to the Milankovitch theory regarding orbital position of the Earth. A caloric summer or summer energy integral that mostly depends on obliquity changes solves many of the problems detected with the Milankovitch theory. CO_2 can only produce a minor effect in glacial terminations since its measured change in concentration is too small to account for any important contribution to the large observed temperature changes.
- Second, the Dansgaard-Oeschgger cycle found in proxy records of the last glacial period shows abrupt climate change. Evidence suggests that the Dansgaard-Oeschgger cycle events are triggered according to two interrelated periodicities of a suggested tidal origin.
- During the Holocene, evidence shows over twenty centennial periods when the rate of climate change greatly surpassed the long-term average. These periods of abrupt climate change occurred at times when the greenhouse gases hardly changed.
- Abundant proxy evidence supports a 2,500-year climate cycle. Roger Bray proposes a solar cause supported by cosmogenic isotope records showing the match of Sporer-type grand minima with the most conspicuous periods of abrupt climate deterioration. Holocene proxy climate changes align with and appear most affected by the persistent changes in solar activity, which last several decades.
- Archaeological and historical evidence support and show abrupt climate events that made a significant mark on human societies. There is a clear association between these periods of profound climate worsening and periods of social crisis that often coincide with important cultural transitions.

Book Climate of the Past, Present and Future Javier Vinos 2022

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change – Javier Vinos

- The potential existence and importance of a 1500-year Holocene climate cycle, which is supported by a particular subset of climate proxies, is also covered.
- Holocene solar activity, as inferred from cosmogenic isotope records, displays several periodicities in frequency analysis with correspondence to quasi-cyclic climate changes.
- When focusing on the role of greenhouse gas variations as agents for natural climate change, the Cenozoic era displays a lack of correspondence between climate change and CO_2 change. The proposition that CO_2 is the principal control knob governing Earth's temperature lacks supporting evidence.
- Concerning the meridional transport of energy along the latitudinal temperature gradient, and its relationship to differing climate phenomena, the solar modulation of meridional transport can be seen in the correlation between the solar cycle and changes in Earth's rate of rotation.
- Evidence shows that two drivers of climate change, volcanic forcing and multidecadal internal variability, induce changes in meridional transport, leading to the possibility that meridional transport is the principal driver of natural climate change. This hypothesis links all other natural causes, volcanic eruptions, multidecadal internal oscillations, El Niño/Southern Oscillation, and solar activity, through their effects on the amount of energy directed to the two gigantic cooling radiators at its poles in the current ice age. The variable amount of energy lost by the planet at the winter dark pole is proposed as the main mediator of the climate effect.
- The recent warm period shows some interesting characteristics. **The human-caused very high and fast-rising CO_2 levels are higher than at any time during the Late Pleistocene, but, unlike the anthropogenic forcing, the increase in temperature and sea level over the past 120 years shows little acceleration**.

Book Climate of the Past, Present and Future Javier Vinos 2022

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Factors that impact Climate Change – Javier Vinos

- The IPCC has contributed to the "emergency discourse" through the development of a series of gloomy future (yet to be seen) scenarios. Javier Vinos provides an alternative set of projections after taking into account fossil fuel supply side constraints and human population dynamics.

CMIP5 models were initialized in 2006 (vertical line) and reproducing historical climate to that point was a prerequisite.

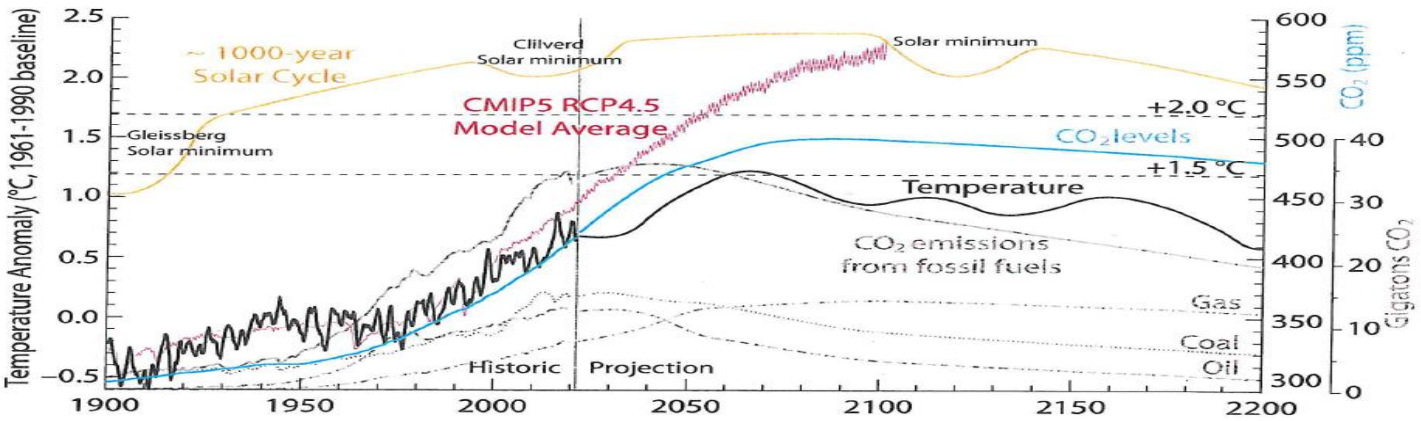


Fig. 13.10 Conservative temperature, CO_2 level, and emissions forecast to AD 2200
CO_2 emissions from fossil fuels forecast (brown continuous line, right outer scale) based on a peak in oil consumption by 2018–35 (dashed brown line), a second peak in coal consumption before 2050 (dotted brown line) and increasing gas consumption to 2100 (dash-dotted brown line), producing a peak in CO_2 emissions from fossil fuels at c. 35 Gtons by 2050. Historical CO_2 emissions from fossil fuels are from Gilfilland et al. (2019), archived at CDIAC (AppState) and updated with data from BP Statistical Energy Review (2022). Atmospheric CO_2 levels (blue line, right inner scale) should therefore stabilize at c. 500 ppm by 2080 before starting to decrease slowly as sinks remove more than is added. Historical atmospheric CO_2 levels are from Law Dome (after Etheridge et al. 1996) to 1958 and from NOAA afterwards. An idealized millennial cycle in solar activity is represented by the orange line, peaking at 2050–2080, temporarily reduced by centennial and bicentennial lows indicated with their names. CMIP5 model-mean temperature anomaly (red line) projects reaching +1.5 °C above pre-industrial by the 2030s, and +2.0 °C by the 2050s. Temperature anomaly should stabilize until the 2030s, increasing afterwards and peaking c. the 2070s at c. +1.5 °C above pre-industrial, due to CO_2, solar activity forecasts, and oceanic oscillations. Afterwards temperature anomaly could enter a slightly declining undulating plateau as both CO_2 and solar activity slowly decline. Historic temperature anomaly is from UK MetOffice HadCRUT 4.6 global surface monthly dataset (13-month averaged).

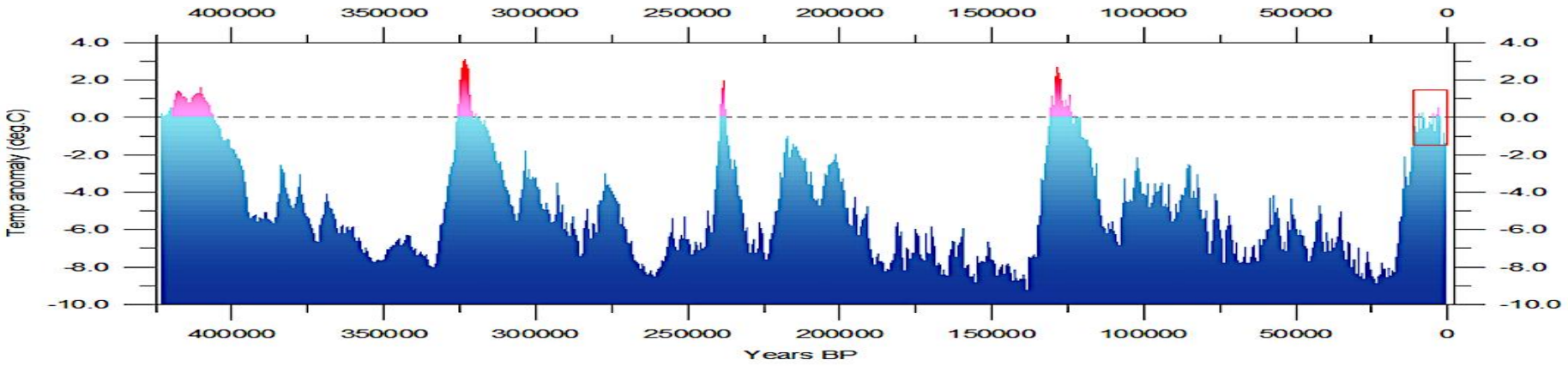
- Evidence shows that glacial inceptions have taken place for the past two million years every time obliquity has gone below 23 degrees during an interglacial period. Interglacial periods are unsustainable under low obliquity conditions, and there is no evidence that this time will be any different. **Evidence suggests that in 1500 to 4500 years, the next glacial inception will take place**.

Book Climate of the Past, Present and Future Javier Vinos 2022

6) Is Climate change mainly caused by mankind's emissions of CO_2?

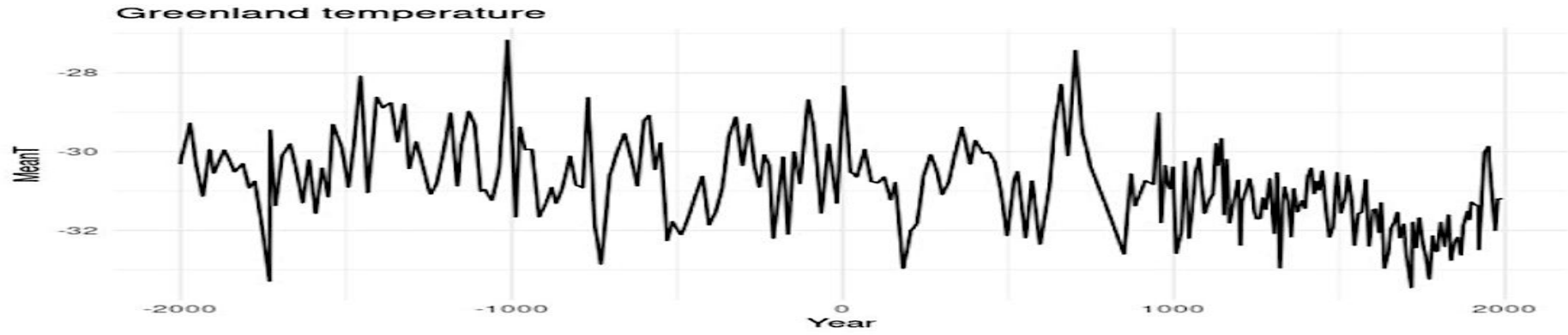
Statistics Norway Recent Report Findings

Figure B2. Reconstructed temperatures over the last 420,000 years



Reconstructed global temperature based on the Vostok ice core from the Antarctica. The horizontal line indicates the modern temperature level. The red square to the right indicates the time interval shown in greater detail in https://www.climate4you.com/

Figure B4. Reconstructed temperatures from Greenland, 2000 BC to 2000 AD



Reference https://www.powerlineblog.com/archives/2023/10/another-nail-in-the-global-warming-coffin.php

6) Is Climate change mainly caused by mankind's emissions of CO_2?

1) Statistics Norway recent report findings

- The government agency, Statistics Norway, recently released a report that concludes: that *the effect of man-made CO_2 emissions does not appear to be sufficiently strong to cause systematic changes in the pattern of temperature fluctuations. our analysis indicates that with the current level of knowledge, it seems impossible to determine how much of the temperature increase is due to emissions of CO_2*

- The report looks at the last 400,000+ years of Earth's climate history: *The preceding four interglacial periods are seen at about 125,000, 280,000, 325,000 and 415,000 years before now, with much longer glacial periods in between. All four previous interglacial periods are seen to be warmer than the present. The typical length of a glacial period is about 100,000 years, while an interglacial period typically lasts for about 10-15,000 years. The present interglacial period has now lasted about 11,600 years.* Similarly, on the time scale of recent millennia, current temperatures are nothing unusual: *Kobashi et al. (2011) have reconstructed Greenland surface snow temperature variability with a new method that utilizes argon and nitrogen isotopic ratios from occluded air bubbles. These data indicate that warmer temperatures were the norm in the earlier part of the past 4,000 years, including century-long intervals nearly 1°C warmer than the decade (2001-2010).*

Reference https://www.powerlineblog.com/archives/2023/10/another-nail-in-the-global-warming-coffin.php

6) Is Climate change mainly caused by mankind's emissions of CO_2?

1) Statistics Norway Recent Report Findings

- *Therefore, it appears that the current decadal mean temperature in Greenland has not exceeded the envelope of natural variability over the past 4,000 years. During the past 10,000 years, temperatures over long periods were higher than they are today. The warmest phase occurred 4,000 to 8,000 years ago and is known as the Holocene Climate Optimum.*

- It criticizes the models on which climate alarmism is based; there is nothing alarming in the observational record: *In the global climate models (GCMs) most of the warming that has taken place since 1950 is attributed to human activity. Historically, however, there have been large climatic variations. Temperature reconstructions indicate that there is a 'warming' trend that seems to have been going on for as long as approximately 400 years. Prior to the last 250 years or so, such a trend could only be due to natural causes. The length of the observed time series is consequently of crucial importance for analyzing empirically the pattern of temperature fluctuations and to have any hope of distinguishing natural variations in temperatures from man-made ones.*

- This report, although not representing the Government's official position on Climate Warming, is important because climate alarmism can survive only if it is deemed a "consensus," so that people who point out inconsistent facts can be censored. Once the purported consensus is punctured, it rapidly becomes clear that the Climate Emperor is unclothed.

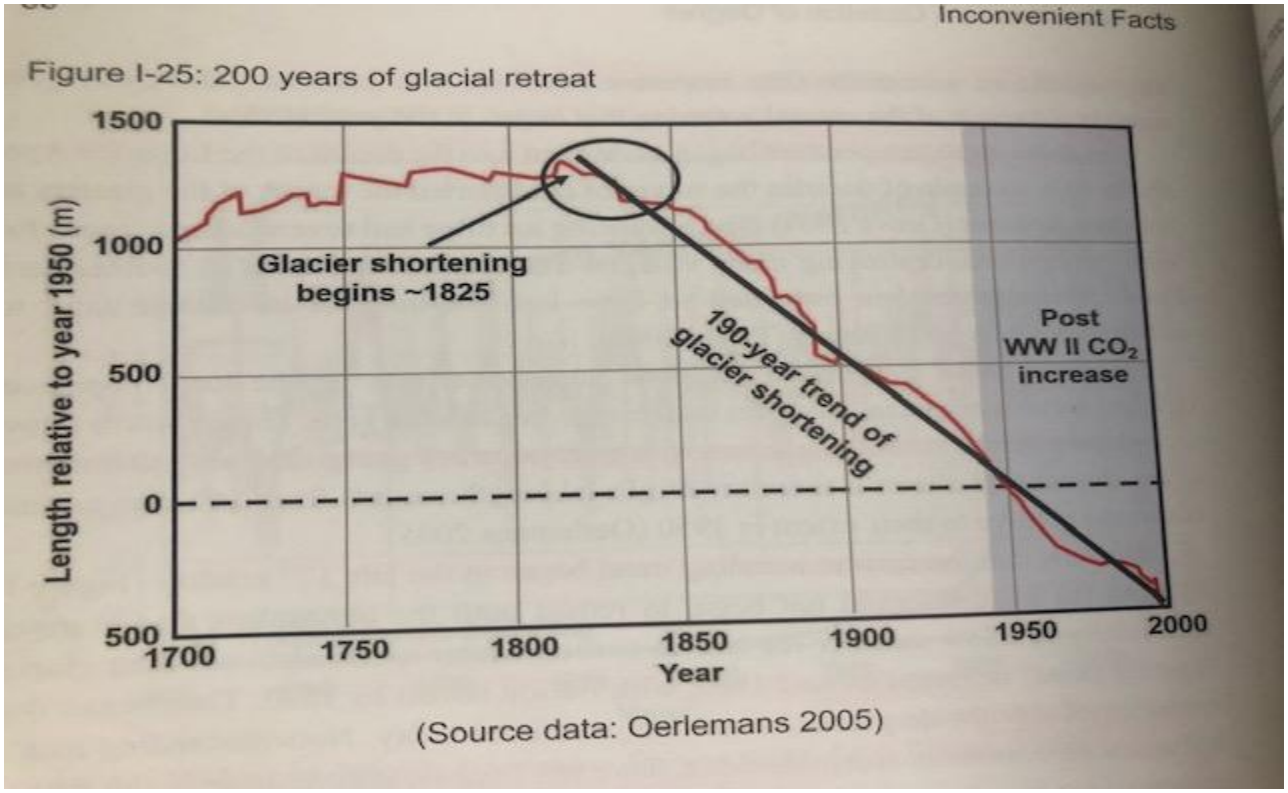
Reference https://www.powerlineblog.com/archives/2023/10/another-nail-in-the-global-warming-coffin.php

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Graph showing rate of glacial retreat between 1700 and 2000 with period of increasing CO_2 shown

- The rate of glacier shortening and ice melting has remained constant since about 1825 and does not appear to be impacted by recent, higher CO_2 levels.

200 Years of Constant Glacial Retreat



Reference book: Inconvenient Facts page 36

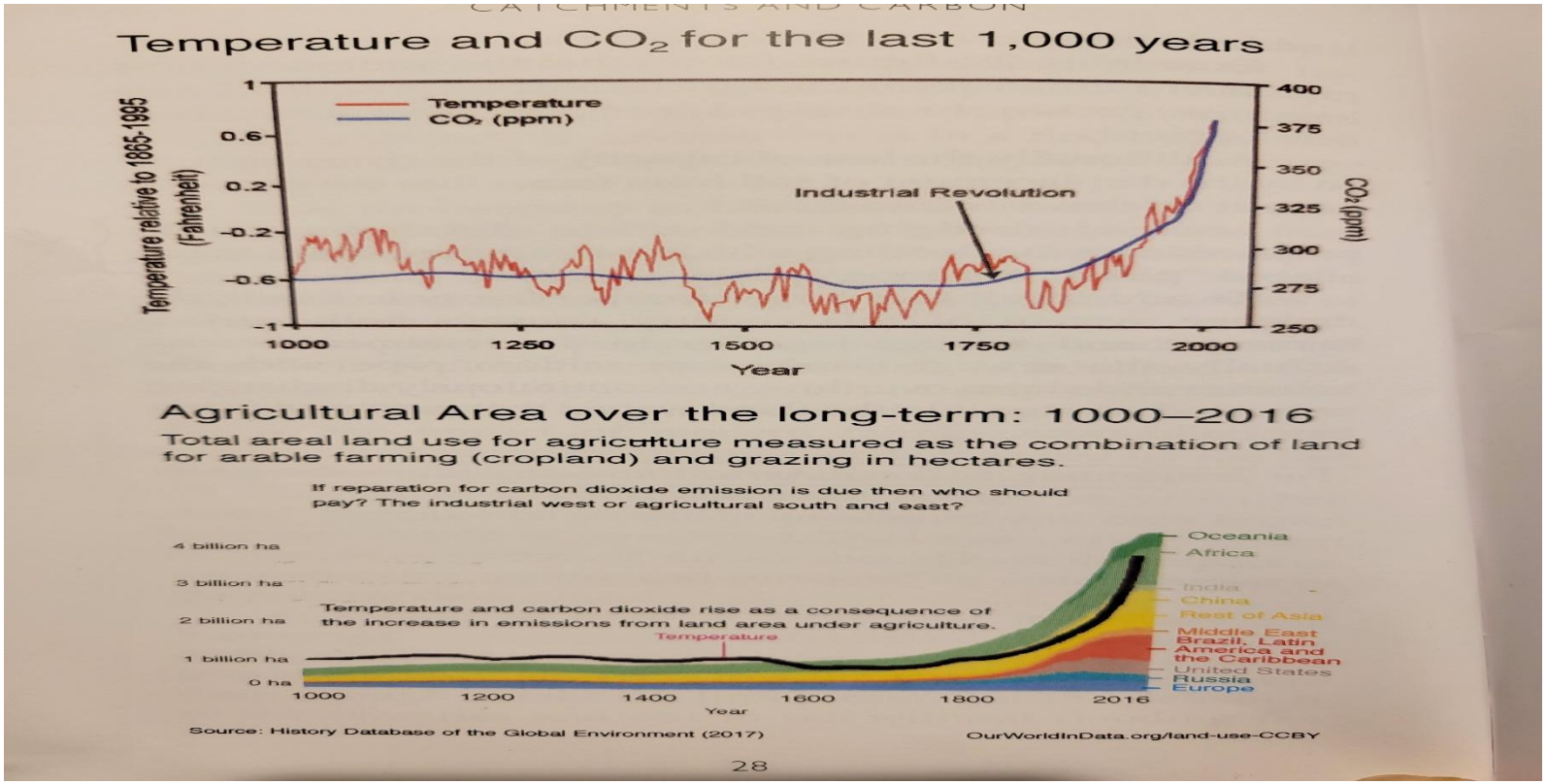
Source: Oerlemans 2005

https://www.youtube.com/watch?v=QjQupZVS-3A

6) Is Climate change mainly caused by mankind's emissions of CO_2?

Graph showing increasing CO_2 and increased agricultural land use

- . Correlation is not causation. The correlation between CO_2 and increased land being dedicated to agriculture shows a strong correlation, as does increased fossil fuel use. Modern agricultural practices of preparing a field by spraying with weed killer and then light furrow planting open the topsoil and allow oxidation of the soil carbon, releasing about 18 tons of carbon dioxide into the atmosphere.
- Agriculture accounts for about 23% of CO_2 output and fossil fuels about 13%



Reference book: Catchments and Carbon page 28 Lois Caborn

6) Is Climate change mainly caused by mankind emissions of CO_2?

Climate change doesn't appear to be caused by man's emissions of CO_2

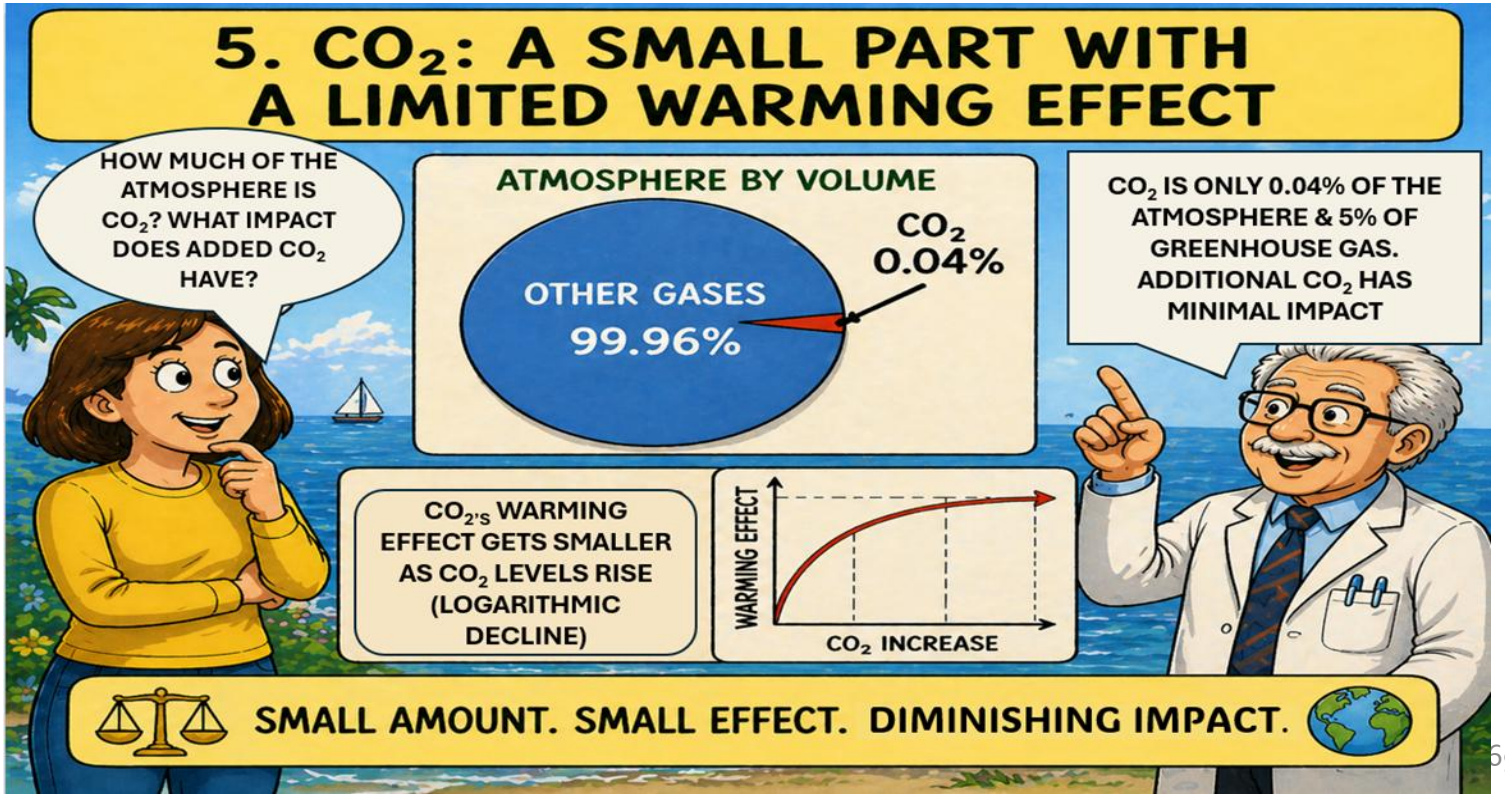
- Many factors impact climate and temperature; CO_2 levels do make a minor impact but do not correlate with changing climate over time. There is a close correlation between climate, solar activity and ocean oscillations.
- Earth's temperature has cycled between very hot climates and very cold climates. Both of these occurred during periods of both high and low CO_2
- Global temperatures changed independently of changing CO_2 levels, which have been generally decreasing over the last 150 million years.
- Ice records over the last 400,000 years show CO_2 increases followed temperature increases and did not lead (cause) these increases.
- Rates of recent temperature increases, glaciation retreats and sea level rises have not changed when CO_2 levels increased significantly.

- NASA admits climate change occurs because of changes in Earth's solar orbit, not because of SUVs and fossil fuels
- Freeman Dyson https://youtu.be/BiKfWdXXfIs
- John Christy: Climate models for politics?..."A bridge too far" – YouTube
- Natural Climate Variability. Does CO_2 Have Any Effect? | Prof. Judith Curry - YouTube
- https://youtu.be/U6JpmDqpzQY **Increasing polar ice and climate variations**
- https://www.theepochtimes.com/epochtv/nobel-laureate-john-clauser-there-is-no-climate-emergency-climate-models-miss-one-key-variable-5486017
- Australian debate https://youtu.be/OlgHSqlA-6o?si=uldWZe2hp-pRZN9S
- **Are Melting Alpine Glaciers a sign of man-made global warming?** Alpine glaciers for CO_2 coalition.pdf **Euan Mearns**
- https://www.youtube.com/watch?v=YKgsJupYJAo Climate change in Sahara desert over time
- (15583) Quantifying CO_2 while ignoring water vapor is a GIANT scam! - YouTube

Global Warming and CO_2
7 of 11 Questions

Question 7

What's the impact of increasing CO_2 emissions on climate warming?



7) What is impact of increasing CO_2 emissions on climate warming?

Atmospheric CO_2 and as a component of total greenhouse gas is very small

- Our planet's atmosphere consists of about 78% Nitrogen, 21% Oxygen, 1% Argon, and small trace gases (CO_2 0.04%)
- The concentration of CO_2 in the atmosphere is about 400 parts per million and is classified as a trace gas
- The majority of CO_2 comes from natural sources like volcanic activities, release from warm oceans and irrigation of carbon-rich soils.
- CO_2 represents only 5% of the total greenhouse gas and mankind's contribution is only a portion of this 5%, with water vapour representing over 90%
- Human burning of fossil fuels produces a small % of the total CO_2 emissions (about 12 parts per million)
- Only a small % of the total CO_2 generated emissions would be reduced by removing fossil fuel combustion use
- "We don't fully understand climate change. However, an examination of the deep-sea sedimentary rock formed by the remains of marine organisms with skeletal structures made of calcium carbonate falsifies the claim that carbon dioxide is the primary driver of temperature changes. It is a bit player in a complex play." ***Ken Haapala, President, Science and Environmental Policy Project (SEPP)***

http://www.sepp.org/the-week-that-was.cfm...

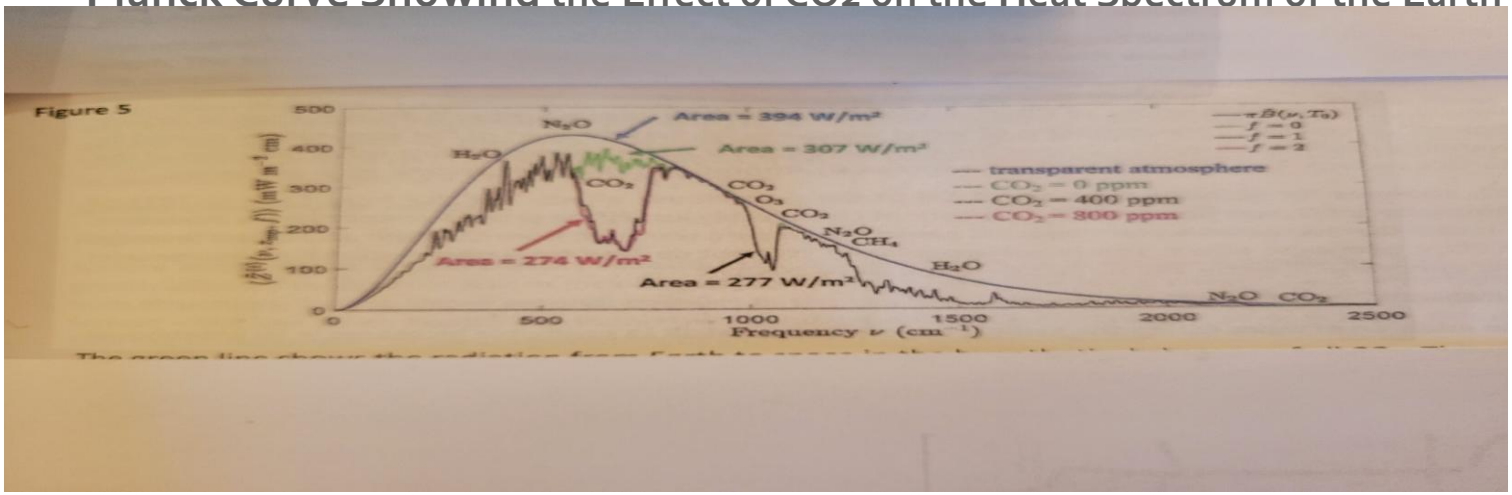
https://youtu.be/CA8eICE75hs

7) What is impact of increasing CO2 emissions on climate warming?

Planck curve shows the insignificant impact of doubling atmospheric CO2

- Mainstream **science is unanimous that the warming impact of CO2 diminishes ("logarithmically")** as it increases in concentration. Every new CO2 molecule added to the atmosphere has less warming effect than the previous one.
- Max Planck delineated the spectrum of radiation from warm bodies. The horizontal scale is the frequency of thermal radiation. The vertical scale is the thermal power going out into space. The area under the curve corresponds to the cooling power of the radiation. If there were no greenhouse gases, the radiation into space would be comprised within the upper blue curve.
- The radiation from Earth to space with CO2 at 400 ppm is shown by the jagged black line. The red line is what the Earth would radiate if the concentration of CO2 were to double to 800 ppm. The green curve is for no CO2 at all.
- The impact of **doubling CO2 from 400ppm (black line) to 800ppm (red line), is only 0.71C of warming**.

Planck Curve Showing the Effect of CO2 on the Heat Spectrum of the Earth



Reference: Climate All Is Well, All Will Be Well Jeremy Nieboer page 13

https://wattsupwiththat.com/2023/09/29/professor-william-happer-ipa-lecture-the-crusade-against-carbon-dioxide-september-2023/

"CO2 , The Gas of Life"-Dr. William Happer –YouTube

https://wattsupwiththat.com/2025/01/18/the-saturation-effect-questions-the-prevailing-narrative-on-co2/

7) What is impact of increasing CO_2 emissions on climate warming?

Test proves the insignificant, logarithmically reduced impact of doubling atmospheric CO_2

- *A recent development in atmospheric physics proves the long-established calculations of the greenhouse gas effect, including CO_2, can be verified as reliable through direct observations.*
- *Observations by Dr W. Happer of Princeton University, USA and Dr W. A. Van Wijingaarden of York University, Canada contradict the IPCC's prediction that by 2100, increased CO_2 in the atmosphere will cause 3.5 °C to 4.5 °C of global warming compared to 1850.*
- *The theoretical equation showed what wavelengths of infrared radiation each greenhouse gas would attenuate and by how much. They tested these calculations using satellites to measure how intense the infrared radiation was at the top of the atmosphere in the attenuation range and concentrations of each of the five major greenhouse gases. In this way, they calculated the existing greenhouse gas effect of CO_2 and confirmed the calculated estimate by careful observation in nature.*
- *They calculated how much the infrared radiation across a broad band of wavelengths would be left after travelling through 86 km of cloudless atmosphere if all the greenhouse gases were removed.*
- *Second, they calculated how much more infrared radiation would be removed if the greenhouse gases were put back in at today's concentrations at the same elevation of 86 km.*
- *Then they measured the actual intensity of the infrared radiation at 86 km using the spectrometers on satellites. The satellite measurements matched almost perfectly the calculations of how intense the infrared radiation should be at 86 km for all five greenhouse gases at today's concentrations and over three targeted areas (the Sahara, the Mediterranean, and the Antartic, confirming their findings.*
- *The proven equation can then be used to calculate the greenhouse gas effect if the concentrations of CO_2 in the atmosphere were increased and then to convert that effect into temperature gain. Doubling CO_2 in the atmosphere. At today's rate of adding CO_2, it would take about 170 years and result in only 1 °C global warming. Doubling methane in the atmosphere will cause only 1/8 the warming of doubling CO_2 and will take 240 years at today's rates.*

Reference book Sunset on Net Zero: A Heretic's Guide to the Futile CO_2 Target, Ronald Barnby

7) What is impact of increasing CO_2 emissions on climate warming?

What is meant when a greenhouse gas is said to be saturated?

The Greenhouse Gas is Saturated Means the Temperature Impact Decreases Dramatically with Increased CO_2

The word "saturation" means different things in different scientific fields. For example, if you add 360 grams of table salt crystals to a kilogram of water at room temperature (about 1 liter), the salt will dissolve completely to give a "saturated" solution. If you add 1000 grams of salt to a kilogram of water, only 360 grams will dissolve and 640 grams will remain as solid crystals on the bottom of the container. Adding more salt to a saturated solution has no effect on the amount of salt in the solution.

Adding more CO_2 to the atmosphere, when its effects on radiation transfer are saturated, continues to decrease the energy flux to space, but the decrease gets smaller and smaller as more CO_2 is added.

TWTW 10-11-25.pdf What is meant when a greenhouse gas is said to be saturated?

7) What is impact of increasing CO_2 emissions on climate warming?

What is meant when a greenhouse gas is said to be saturated?

The Greenhouse Gas is Saturated Means the Temperature Impact Decreases Dramatically with Increased CO_2

The greenhouse effect of carbon dioxide (and water vapor) delays the rapid cooling of the Earth at night by reducing the emission of infrared radiation emitted by Earth to space.

The infrared radiation is proportional to the fourth power of the absolute temperature. A large increase in the greenhouse effect (a reduction of infrared radiation from Earth to space) from carbon dioxide is necessary to cause a small increase in Earth's temperatures because the increase in radiation from Earth is a function of the absolute temperature raised to the fourth power. In today's atmosphere, an increase in carbon dioxide (and water vapor) has little effect in increasing Earth's temperatures because the infrared radiation in the frequencies (or wavelengths) in which these gases absorb infrared radiation is already being absorbed. T**he capability of carbon dioxide to absorb infrared radiation emitted by Earth is saturated**.

Additional carbon dioxide can absorb only a little more infrared energy from Earth. The limiting factor is not the quantity of carbon dioxide, but the quantity of infrared radiation emitted by Earth. What has a significant effect on Earth's surface temperatures is the solar radiation hitting Earth's surface, either by increasing solar intensity or decreasing Earth's cloudiness or other reflectivity.

7) What is impact of increasing CO_2 emissions on climate warming?

Clouds have a much greater impact on heating the Earth than added CO_2

- In a recent paper by Dr. W. A. van Wijngaarden and William Happer, they **prove the dominant role of clouds in Earth's climate**. We all experience this by going outside on a cloudless night versus a cloudy, overcast night.
- These professors showed that clouds have a large effect on radiative heat transfer from Earth's surface to space. **Greenhouse gases also affect heat transfer, but much less than clouds**. For example, "instantaneously doubling" CO_2 concentrations, a 100% increase, only decreases radiation to space by about 1%. To increase solar heating of the Earth by a few percent, low cloud cover only needs to decrease by a few percent.
- Radiative transfer theory shows that doubling the concentration of the most important human-caused greenhouse gas, carbon dioxide, for a cloudless sky only decreases radiation to space by 1%. However, clouds cover more than half the planet. An increase in low cloud cover of only about 1% could largely compensate for the doubling of CO_2.

Proof of CO_2 saturation

- Reading Happer & van Wijngaarden's 2019 paper, https://co2coalition.org/wp-content/uploads/2022/03/Infrared-Forcing-by-Greenhouse-Gases-2019-Revised-3-7-2022.pdf, provides definitive support for a CO_2 saturation hypothesis, saying:
- "The direct effects of greenhouse gases on the thermal radiation to space is much smaller than the average person realizes. This is the radiation that gets rid of solar heating. A 100% increase (doubling) of CO_2 concentration only reduces radiation to space by 1%.
- Furthermore, such doubling increases the infrared absorption by only a few percent. The reason is that extensive saturation takes place. In simple terms, if the available CO_2 already absorbs almost all the infrared energy, adding more will make little difference."

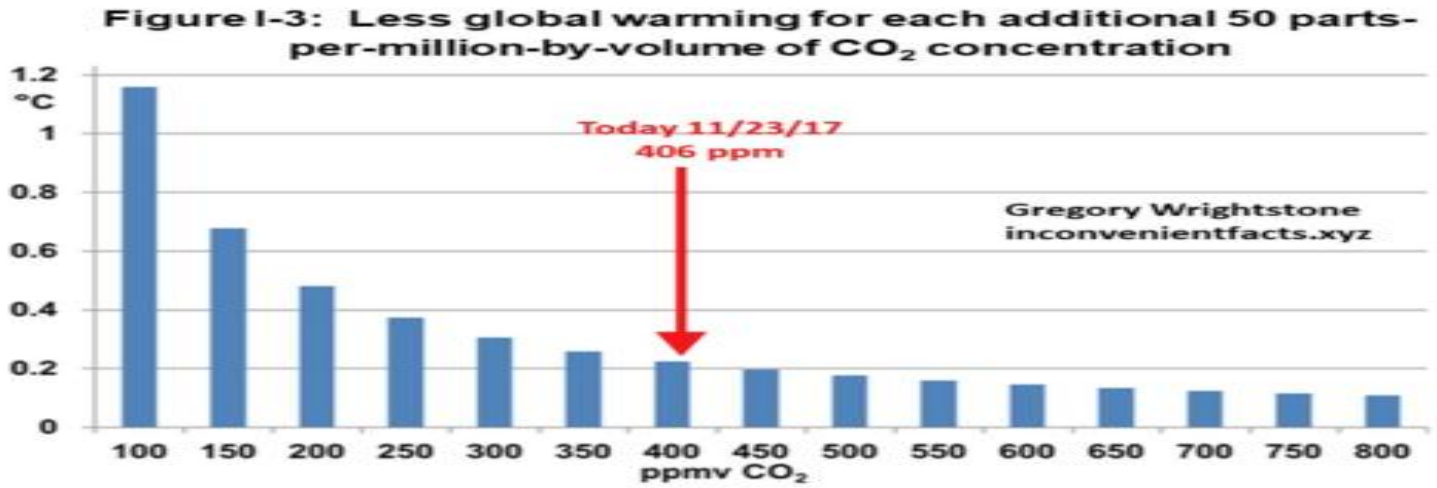
https://co2coalition.org/wp-content/uploads/2022/03/Infrared-Forcing-by-Greenhouse-Gases-2019-Revised-3-7-2022.
https://co2coalition.org/publications/radiation-transport-in-clouds/
The Magic Trick of Climate Science. Howard Hayden, Ph.D.

7) What is impact of increasing CO_2 emissions on climate warming?

Graph shows warming impact decreases with additional atmospheric CO_2

- The warming effect of CO_2 declines (logarithmically) as its concentration increases.
- Adding more CO_2 has an ever-decreasing impact on the Greenhouse gas effect on the climate.
- From 1898 to 1998 global temperatures increased 0.8C and CO_2 increased from 295 ppm to 367 ppm. Since 1998, CO_2 has increased from 367 ppm to 420 ppm, half of the previous increase, while temperatures rose slightly.
- Mars has hot and cold seasons and an average temperature of -80° F with a 96% CO_2 atmosphere and no extreme heat

Temperature Impact Decreases with Increased CO_2



Graph calculated using IPCC's formula Courtesy Monckton 2017

Reference: Inconvenient Facts page 7 plus 208 www.ronaldbarmby.ca

Ivan Giaver https://www.foreignpolicyjournal.com/2016/01/01/nobel-laureate-ivar-giaever-on-climate-change/

https://youtu.be/pHCCE-sw_Sc William Harper discussion on CO_2

(2046) This Well Known Effect Breaks the Climate Narrative – YouTube Richard Lindzen - CO_2 impact on temperature

https://thehighwire.com/editorial/new-peer-reviewed-study-co2-has-zero-impact-on-climate-change/

Watch an overview of Mars here Mars has high % CO_2 but low temperature

7) What is impact of increasing CO_2 emissions on climate warming?

The saturation effect refutes that increasing levels of CO2 will cause catastrophic global warming

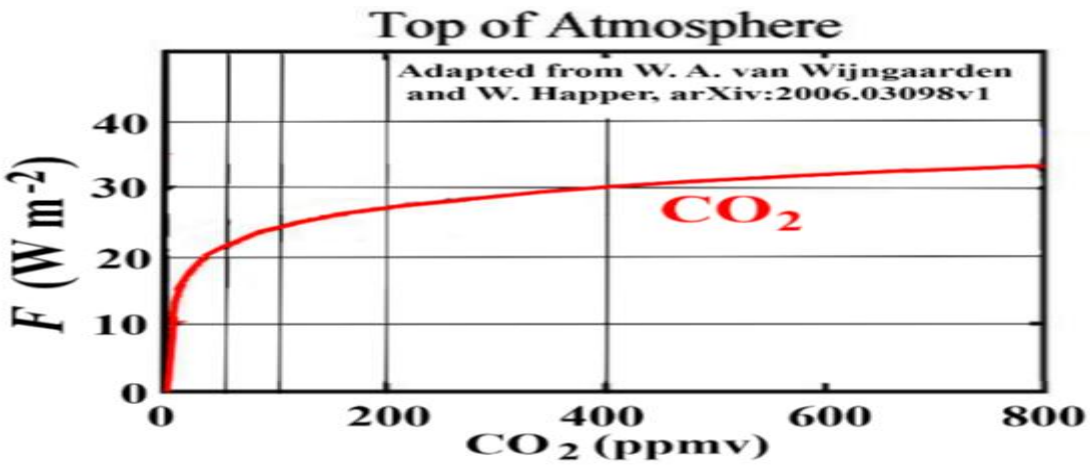
- CO_2 radicalism rests on one main assumption – that increases in atmospheric CO_2 will cause a linear and dangerous increase in global temperature. The belief that more CO_2 emitted equals significantly more heat and higher temperatures is a cornerstone of the ruling scientific paradigm.
- The peer-reviewed analysis was completed in June 2020 by eminent physicists William Happer and William van Wijngaarden. Mr. Happer is Professor Emeritus at Princeton University and van Wijngaarden is a professor in the Department of Physics and Astronomy at York University in Toronto shows this to be wrong.
- They applied mathematical analytics to the physics of CO_2 in the atmosphere and raised serious doubts about CO_2's ability to absorb heat after becoming "saturated" at current levels of 400 parts per million, and therefore unable to absorb significantly more heat from the Sun. Any further increases in atmospheric CO_2, even doubling that amount to 800 parts per million, would result in minimal increases in temperature of 0.5C,.
- This finding was validated through a controlled laboratory experiment conducted by a team of researchers in 2024. They measured the back infrared radiation of CO_2 in a test chamber with increasing CO_2 concentrations emulating realistic atmospheric conditions. They concluded that doubling CO_2 from pre-industrial levels from 400 to 800 ppm "shows no measurable increase in infrared radiation absorption and can lead to just 0.5C °C warming at most".
- in 2020, German chemist Michael Schnell published "Experimental Verification of the CO_2 Greenhouse Effect," which also confirmed that the saturation effect of CO_2 results in minimal warming.
- Franz-Karl Reinhardt, a professor with the leading Swiss research facility EPF, demonstrated that a doubling of the current level of atmospheric CO_2 from 400ppm to 800ppm would produce only one-quarter of 1 degree Celsius – too small to even be accurately measured.
- This conclusion illustrates why climate alarmists have never been able to explain the reason why the Earth has never experienced runaway warming in the past when CO_2 levels were 5-10 times more concentrated than today, nor why the UN climate models have been proven to be so terribly wrong. These saturation analyses refute that increasing levels of CO_2 will cause catastrophic global warming.

https://wattsupwiththat.com/2025/01/18/the-saturation-effect-questions-the-prevailing-narrative-on-co2/

7) What is impact of increasing CO_2 emissions on climate warming?

The saturation effect refutes that increasing levels of CO2 will cause catastrophic global warming

- *In IPCC's Third Assessment Report (2001) [6], they give three formulas for calculating the "radiative forcing" (i.e., increase in ability to block IR) for CO_2, all of which are in reasonable agreement, and all of which are based on the IR spectrum of CO_2 known at the time (and probably using the red lines of Figure 10, as an approximation).*
- *Figure 14: Net IR blockage (seen from top of atmosphere) by CO_2 versus CO_2 concentration, adapted from van Wijngaarden & Happer."*



- In Figure 14 shows that with a very small amount of CO_2 in the atmosphere, significant forcing is achieved, yet the ability of CO_2 to promote forcing is quickly weakening. This illustrates that the effect of CO_2 is logarithmic, a characteristic that is ignored by many promoters of the fear of carbon dioxide creating "runaway global warming." At today's level of about 400 ppmv, the effect of CO_2 is 30 forcing units (W/m2). Doubling today's level to 800 ppmv has little effect. This is what is meant by the term "saturated."

- The Magic Trick of Climate Science. Howard Hayden, Ph.D.

7) What is impact of increasing CO2 emissions on climate warming?

Research papers show the decreasing climate impact with additional atmospheric CO2

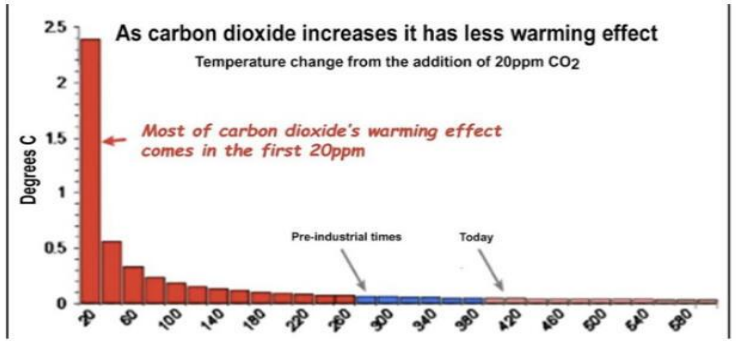
CO2 Temperature Impact Decreases Logarithmically with Increased CO2

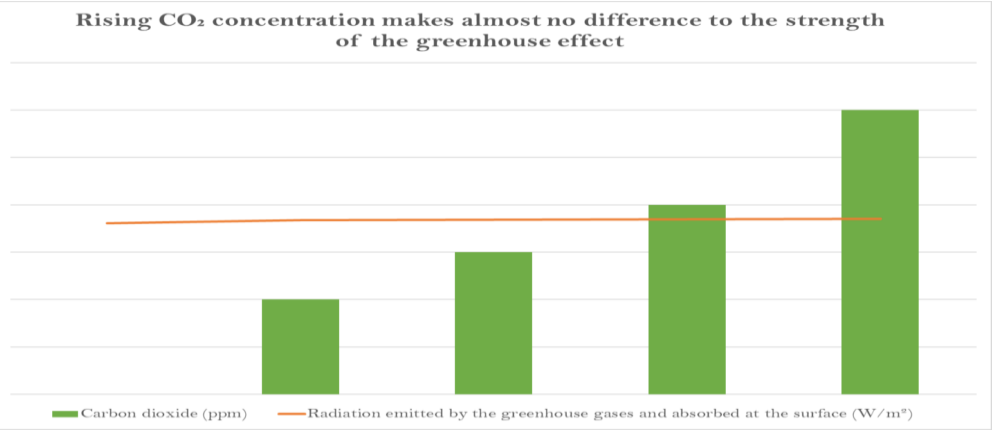
- Nobody doubts whether carbon dioxide is a greenhouse gas; the questions are how much additional radiant energy CO_2 is currently absorbing compared to the past, and what impact this has on climate.
- Two recent scientific papers assess the role of CO_2 in influencing atmospheric temperature. The first paper developed a mathematically rigorous theory from first principles regarding the absorption of long-wavelength radiation (LWR). The second paper Read Dr. Jim Mason's article in the C2C journal. and associated video **https://youtu.be/tcyQS4uz4rc** raise further doubts regarding climate impact of CO2.
- According to NASA, (the second paper) also shows that the absorption of LWR does not increase in a linear fashion along with the increase in atmospheric CO_2. Instead, as the gas concentration increases, the incremental amount absorbed *decreases*.
- At twice the C value – 2C – only three-quarters of the incident radiation would be absorbed. And at 3C, seven-eighths. By 10C, 99.9 percent of the absorbable LWR is being absorbed. In effect, the atmosphere has become "saturated" with the gas from a radiation-absorption perspective and further increases in CO_2 have a negligible effect on absorption.
- The phenomenon of non-linearity and absorption saturation, along with an associated Beer-Lambert Law equation, is also discussed by Thayer Watkins, a mathematician and physicist, and professor emeritus of economics at San José State University. "In order to properly understand the greenhouse effect, one must take into account the nonlinearity of the effect of increased concentration of greenhouse gases," Watkins notes. "The source of the nonlinearity may be thought of in terms of a saturation of the absorption capacity of the atmosphere in particular frequency bands."

A Planet That Might Not Need Saving::Can CO2 Even *Drive Global Temperature Jim Mason C2C Journal Oct 13, 2024*
Dependence of Earth's Thermal Radiation on Five Most Abundant Greenhouse Gases W. A. van Wijngaarden1 and W. Happer
Climate and the Earth's Energy Budget *by Rebecca Lindsey (NASA)*

7) What is impact of increasing CO_2 emissions on climate warming?

CO2 Has Almost No Effect on Global Temperature, Says Leading Climate Scientists





As CO_2 concentration increases from 0 to 600 parts per million (green bars), the total strength of the greenhouse effect, measured as the energy the greenhouse gases radiate to the Earth's surface, barely changes (orange line). Source: Kininmonth 2022

Little warming would be averted from the adoption of net-zero policies. If the United States achieved net zero emissions of carbon dioxide by the year 2050, only a few hundredths of a degree Celsius of warming would be averted. If the entire world eliminated carbon dioxide emissions from the activities of mankind, the amount of warming averted would be 0.07 degrees Celsius, inconsequential and not worth destroying the world economy. The fundamental reason is that warming by atmospheric carbon dioxide is heavily "saturated," with each additional ton of atmospheric carbon dioxide producing less warming than the previous ton. Net Zero Averted Temperature Increase R.Lindzen and W.A. Wijngaarden June 2024 paper

7) What is impact of increasing CO2 emissions on climate warming?

CO2 Has Almost No Effect on Global Temperature, Says Leading Climate Scientists

- The concentration of water vapor rises with temperature, so as the earth warms, the capacity to radiate heat to space increases.
- This means that water vapor provides a negative feedback mechanism for moderating the temperature of the planet.
- Given that the Earth has managed itself without man's intervention over the epochs, it should not surprise us that Le Chatelier's principle is at work.
- Climate change is natural. (And out of mankind's control !)
- Perhaps the greatest irony of the Greenhouse Effect Theory is that the so-called "Greenhouse Gases" facilitate heat transfer at the surface AND the top of the atmosphere, rather than hindering it.

Richard Lindzen: **"What historians will definitely wonder about in future centuries is how deeply flawed logic, obscured by shrewd and unrelenting propaganda, actually enabled a coalition of powerful special interests to convince nearly everyone in the world that CO2 from human industry was a dangerous, planet-destroying toxin. It will be remembered as the greatest mass delusion in the history of the world – that CO2, the life of plants, was considered for a time to be a deadly poison."**

The Greenhouse Effect Busted Thomas Shula, USA & Dr. Markus Ott Germany

Lindzen Happer GHGs and Fossil Fuels Climate Physics 2025 06 07

7) What is impact of increasing CO2 emissions on climate warming?

Increasing Greenhouse Gases is not Dangerous nor Cause Extreme Weather Drs. Lindzen and Happer

PHYSICS DEMONSTRATES THAT INCREASING GREENHOUSE GASES CANNOT CAUSE DANGEROUS WARMING, EXTREME WEATHER OR ANY HARM

More Carbon Dioxide Will Create More Food. Driving Greenhouse Gas Emissions to Net Zero and Eliminating Fossil Fuels Will Be Disastrous for People Worldwide. June 7, 2025

- Carbon dioxide has two relevant properties: as a creator of food and oxygen, and as a greenhouse gas (GHG).
- As to food and oxygen, carbon dioxide is essential to nearly all life on earth by creating food and oxygen by photosynthesis. Further, it creates more food as its level in the atmosphere increases. Doubling carbon dioxide from today's approximately 420 ppm to 840 ppm would increase the amount of food available to people worldwide by roughly 40%, and doing so would have a negligible effect on temperature.
- As to carbon dioxide as a GHG, countries worldwide are vigorously pursuing rules and subsidies under the Net Zero Theory that carbon dioxide and other GHG emissions must be reduced to Net Zero and the use of fossil fuels must be eliminated by 2050 to avoid catastrophic global warming and more extreme weather. The Intergovernmental Panel on Climate Change (IPCC) states that "evidence is clear that carbon dioxide (CO_2) is the main driver of climate change". The EPA Endangerment Finding asserts "elevated concentrations of greenhouse gases in the atmosphere may reasonably be anticipated to endanger the public health and to endanger the public welfare of current and future generations."[2]
- We are career physicists with a special expertise in radiation physics, which describes how CO_2 and GHGs affect heat flow in Earth's atmosphere. In our scientific opinion, contrary to most media reporting and many people's understanding, the "scientific premises undergirding" the Net Zero Theory are scientifically false and "wrong."..
- All the agency rules, publications and studies we have seen supporting the Endangerment Finding i) ignored the robust and reliable scientific evidence that: carbon dioxide, GHGs and fossil fuels will not cause catastrophic global warming and more extreme weather and ii) that it will have disastrous consequences for the poor, people worldwide, future generations, Americans, America, and other countries if CO_2, other GHGs are reduced to Net Zero and fossil fuels eliminated that will endanger public health and welfare.
- Unscientific evidence is all we have seen underlying the Endangerment Finding and all the other Net Zero rules.

7) What is impact of increasing CO2 emissions on climate warming

Peer-reviewed study: CO2 emissions have zero impact on global temperature

- "Carbon dioxide (CO2) emissions in the atmosphere have no impact on the Earth's global temperatures, according to a peer-reviewed scientific study.
- The study, **published in Science Direct,** concludes that even though most publications attempt to depict a catastrophic future for the planet due to an increase in CO2, there is serious doubt that this is, in fact, the case.
- The study's authors concluded that "their research unequivocally means that the officially presented narrative that human activity is causing a detrimental CO2 increase on Earth's climate is merely a hypothesis rather than a substantiated reality," Tracy Beanz and Michelle Edwards wrote in a July 25 analysis for The Highwire.
- The study, conducted by researchers from the Institute of Optoelectronics, Military University of Technology in Warsaw, Poland, found that even if all the world's coal was dug up, all the world's oil was extracted, and they were all burned in one giant pyre, the CO2 emissions from that endeavor would not heat up planet Earth.
- "Indeed, this is because carbon dioxide does not cause the Earth to warm up indefinitely," the analysis noted of the study.
- The warming effect of carbon dioxide in the atmosphere reached its limit decades ago, the study concludes.

Climatic consequences of the process of saturation of radiation absorption in gases

Jan Kubicki , Krzysztof Kopczy´nski , Jarosław Mły´nczak Institute of Optolelectronics Military Uni. Warsaw, Poland

7) What is impact of increasing CO2 emissions on climate warming?

Peer-reviewed study: CO2 emissions have zero impact on global temperature

- As reported by Slay News, much like a sponge, the Earth's atmosphere can only hold so much, meaning that carbon dioxide can no longer increase temperatures since the saturation point was reached a long time ago. The study uses a hypothetical concept of a fire inside a greenhouse consistently emitting heat. The glass walls and ceiling can contain only so much heat before emitting it outside. CO2 in the atmosphere is very similar in that it can act as a "greenhouse" gas, but all the CO2 together can only contain so much heat, much like the hypothetical greenhouse.
- The CO2 Coalition agrees with this conclusion as well. Thus, amidst all the fearmongering around climate change—and the knowledge that many things, including changes in solar activity, heavily influence Earth's weather — Curry believes even if the Earth is warming, it is not a dangerous thing:
- "This whole issue of 'dangerous' is the weakest part of the whole argument," Curry, Professor Emeritus and former chair of the School of Earth and Atmospheric Sciences at the Georgia Institute of Technology, said. "What is dangerous? Everybody has a different idea of what's good. The only harm from warming is rising sea levels. And that's a slow creep unless something catastrophic happens, say, to the West Antarctic ice sheet. And if something catastrophic happens there, that's as likely to be associated with under-ice volcanoes as it is to be with global warming."

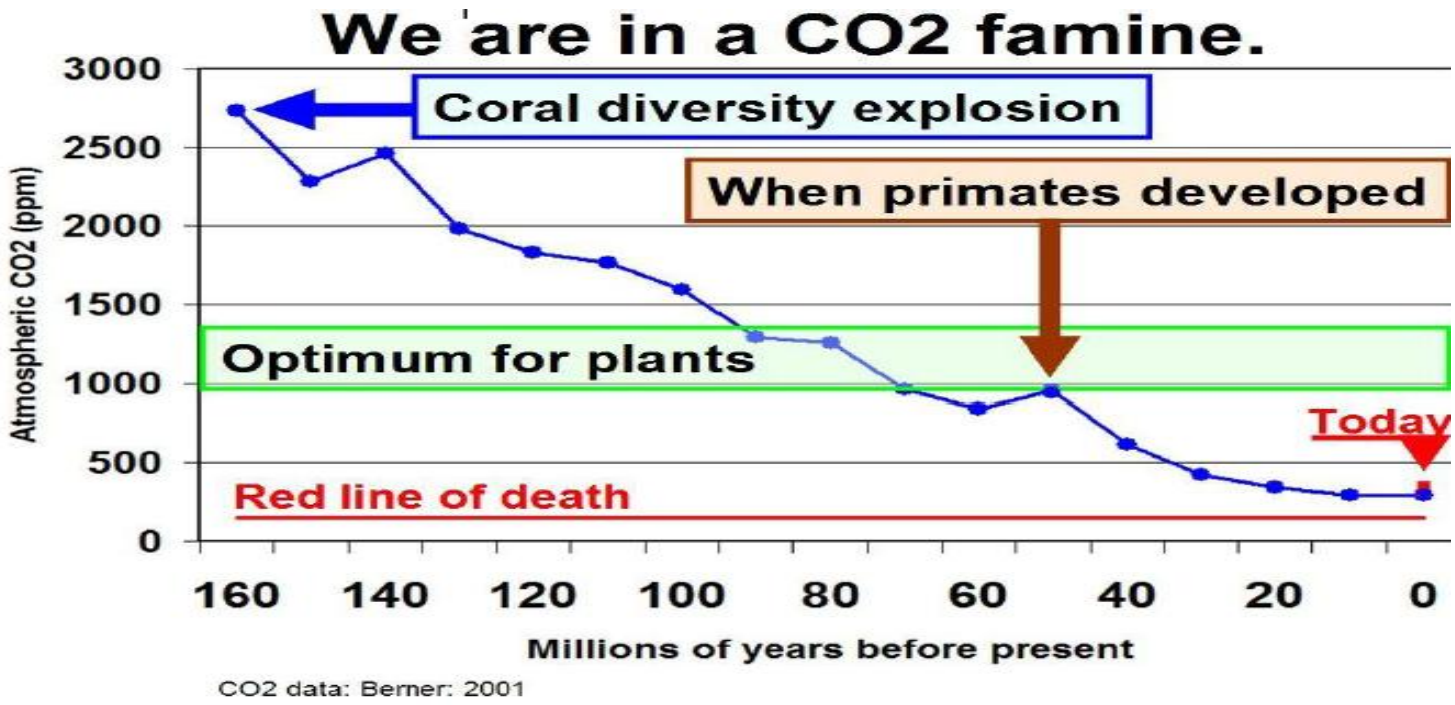
Climatic consequences of the process of saturation of radiation absorption in gases

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7) What is impact of increasing CO2 emissions on climate warming?

Summary by Dr. Terry Rickard of paper "Atmosphere and Greenhouse Gas Primer"

- CO2 is the food used by plants for photosynthesis, which produces the oxygen we breathe and is the direct or indirect source of all the food we eat.
- Current atmospheric concentrations of CO2 (about 420 ppm) are an order of magnitude lower than they have been in geological history, and indeed are not far above the "red line of death" at about 150 ppm, below which plant life would perish (and thus so would we)



Atmosphere and Greenhouse Gas Primer

William van Wijngaarden and Will Happer, two atmospheric physicists

7) What is impact of increasing CO_2 emissions on climate warming?

Summary by Dr. Terry Rickard of paper "Atmosphere and Greenhouse Gas Primer"

- The infrared radiation emitted from a sun-warmed Earth and absorbed by greenhouse gases such as CO_2 prevents a significant portion of this energy from being radiated directly into outer space. Instead, this energy is absorbed by these gases, and the greater warming of the surface air from this absorbed energy results in a slow vertical convection of this warmer air up to a level we call the tropopause, the boundary between the troposphere and the stratosphere.
- As the warm air rises, it gradually cools and becomes more dense (a phenomenon described by the "adiabatic lapse rate" of decreasing temperature with altitude), causing it eventually to begin sinking and be replaced by warmer air rising from below. Thus, a sort of "elevator equilibrium" is established in this vertical convection. At elevations higher than the tropopause, the air density is low enough that most of the emitted infrared energy from greenhouse gases at lower elevations is radiated directly into outer space.

Atmosphere and Greenhouse Gas Primer

William van Wijngaarden and Will Happer, two atmospheric physicists

7) What is impact of increasing CO_2 emissions on climate warming?

Summary by Dr. Terry Rickard of paper "Atmosphere and Greenhouse Gas Primer"

- **Thus, greenhouse gases are directly responsible for this most striking feature of our atmosphere**. The many orders of magnitude slower process of energy transport via convection (as opposed to the light-speed process of radiation through a transparent medium) is what retains adequate heat within the troposphere to make life on Earth possible. Without the absorption of infrared energy by greenhouse gases (as described in detail in the paper), which prevents a direct radiative transfer of the Earth's emitted energy to outer space, the Earth's surface would be much colder and unable to sustain life.
- Targeting a "Net Zero" of CO_2 emissions is a fool's errand that is flirting with disaster, as we would then have to rely upon volcanoes, forest fires and tiny amounts produced by respiration to have adequate CO_2 above the "red line of death". Prior to mankind's added CO_2 emissions, these mechanisms were bringing about an ever-decreasing level of CO_2 in the atmosphere and would have resulted in hitting the "red line of death".
- Plants must eat, and the earth needs to stay warm enough for life to exist. CO_2 is truly "the gas of life" in a double sense!

Atmosphere and Greenhouse Gas Primer

William van Wijngaarden and Will Happer, two atmospheric physicists

7) What is impact of increasing CO2 emissions on climate warming?

All but a small fraction of Outgoing Radiation energy comes from water vapor.

- The failure to recognize that the behavior of IR active gas molecules [like water vapour and CO2] changes radically in the presence of non-IR active species [like Nitrogen] due to THERMALIZATION has led to the perpetuation of the radiative transfer model, despite evidence showing that it is invalid.
- There is no law of conservation of radiation.
- Atmospheric heat is not "trapped." Its transport is simply slowed to a tiny fraction of the speed of light.
- All but a small fraction of Outgoing Longwave Radiation energy comes from water vapor.
- Most of the energy loss to space comes from water vapor emission.
- Emission by the other GHGs is insignificant. Again, this does not mean that the non-condensing GHGs "trap" heat in the atmosphere, but that the radiated energy they absorb from the surface is mostly transferred via thermalization and equipartition to water vapor and radiated to space by water vapor.
- With a finite energy input [radiation from the sun] and an effectively infinite sink [vacuum of space] for the excess energy to leave, it is difficult to rationalize a scenario that results in "runaway warming" without a substantial change in input energy.

The Greenhouse Effect Busted Thomas Shula, USA & Dr. Markus Ott Germany

Water impact on global temperatures https://youtu.be/4swI8_4LfWc;

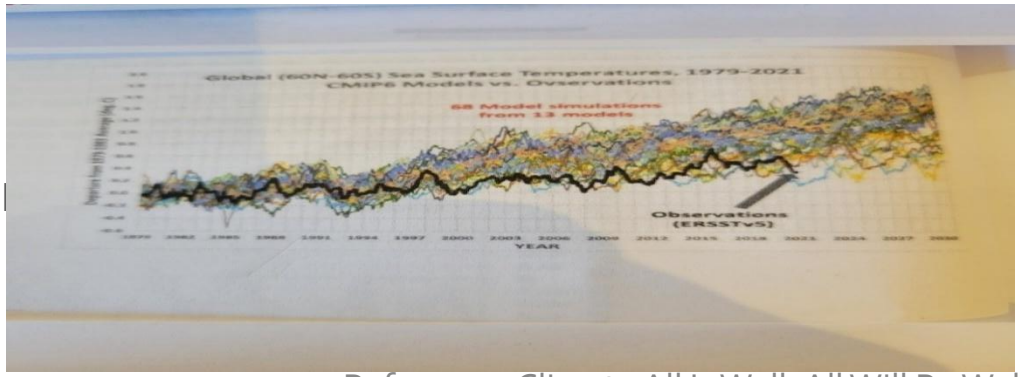
How CO2 Both Warms and Cools Our Atmoshpere https://www.youtube.com/watch?v=8zu4bzcRwRo&t=464s

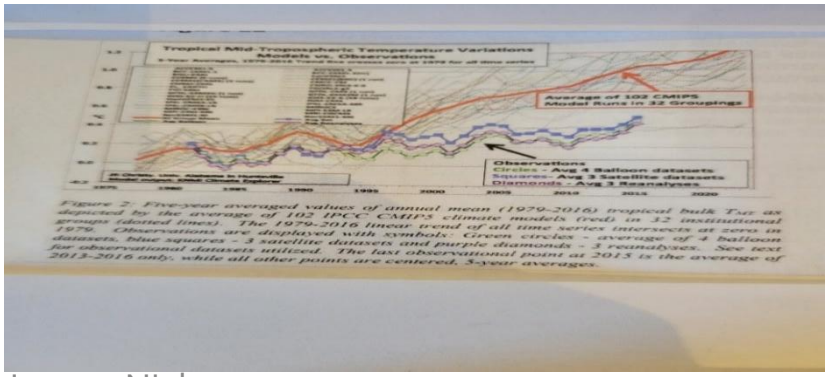
7) What is impact of increasing CO_2 emissions on climate warming?

CO_2-driven climate models over estimate actual trend of climate change

- Climate models use correlations instead of greenhouse effect science, ignore the recent increase in outgoing IR (which would decrease if heating ere to increase), fail to account for the increase in surface IR emission corresponding to their presumed temperature rises and ignore the fact that temperature changes came before CO_2 changes during glacial/interglacial changes and fail to recognize that small changes in radioactive forcing cannot possibly retain huge changes in surface IR emissions.
- The left-hand graph shows the ocean surface temperatures and the CMIP6 climate model simulations from 13 different climate models, which underwrite the IPCC 2012 report. The 42 years of observations from 1979 show warming as occurring much more slowly than the average climate model predicted
- The right-hand graph shows the average of 102 climate models of the IPCC shown against the actual observed atmospheric temperature record from three sources – satellite, balloon and reanalyses
- Dr. Van Wijngaarden, professor in the Department of Physics and Astronomy, testified in a court case that the IPCC's climate models "systematically overstate global warming", an assertion that is incontrovertibly true.

Computer climate models vs actual results





Reference: Climate All Is Well, All Will Be Well Jeremy Nieboer page 20017

Source: J.R. Christy, Univ. of Alabama; KNMI Climate Explorer

John Christy: Climate models for politics?..."A bridge too far" - YouTube

7) What's the impact of increasing CO_2 emissions on climate warming?

1) Scientists raise serious concerns with Climate Models

Climate models fail to model past climates accurately and consistently overestimate future temperature trends, nor are they able to explain the following:

- The current hiatus or pause in warming.
- Why the 285 ppm of atmospheric CO2 estimated for the beginning of the Industrial Revolution is in any way a desirable benchmark. It coincides with the Victorian Little Ice Age, a period of starvation and population decline.
- Climate models always predict higher temperatures than actually occur
- The absence of the predicted tropospheric hotspot – the '*fingerprint of A*GW'.
- CO2 and temperature were higher than today during the previous 50 million years plus, with no CAGW effects, why not?
- The natural warming of 8oC and ~100ppm increase in CO2 during the Holocene up to the 1800s, and the subsequent 125 ppm increase in CO2 after 1950 but only ~1oC rise.
- The Holocene enigma of generally falling but fluctuating temperatures from ~3,000BP, accompanied by rising CO2 that predates industrial CO2 emissions.
- How AGW theory relies on radiative transfer only to heat the planet, and seemingly ignores insolation, enthalpy and water vapour.

Such rational failures have to be of concern as they demonstrate that CO2 alone cannot drive global warming, so how can it drive climate change?

Letter to Geological Society of London June 1, 2018, Howard Dewhirst

7) What is impact of increasing CO2 emissions on climate warming?

Climate models are shown to be based on fundamental errors - Roy Clark

- Roy Clark, a retired engineer and climate researcher, criticizes historical and modern climate models, particularly those developed by Manabe and the IPCC, for their inaccuracies and fraudulent data manipulation. He won a Nobel Prize for this work.
- Clark explains how climate models have been flawed since the 1960s and attributes recent climate changes to natural ocean oscillations rather than CO2 emissions. He calls for a re-evaluation of current climate policies and funding, arguing that these are driven by politics rather than valid scientific research.
- Roy shows that the global mean temperature record and not the “adjusted” temperature record shows very little change since 1900.
- He also believes that the changing climate is due primarily to ocean oscillations and expects we will begin to see cooling as the Atlantic Ocean oscillation moves to its next negative phase. He shows that the impact on temperature of doubling CO2 is too small to measure.
- Paul Linsay discusses the effects of carbon dioxide on the Earth's atmosphere and climate, with Paul arguing that doubling CO2 has no impact on heating the atmosphere. Paul critiques current climate models, emphasizing the complexity of predicting climate due to non-linear dynamics and chaos theory and the challenges and complexities in modeling the Earth's climate accurately.

Reference Interview with Roy Clark
https://youtu.be/PsM4aOmCb_U

7) What is impact of increasing CO_2 emissions on climate warming?

Climate models are shown to be based on fundamental errors

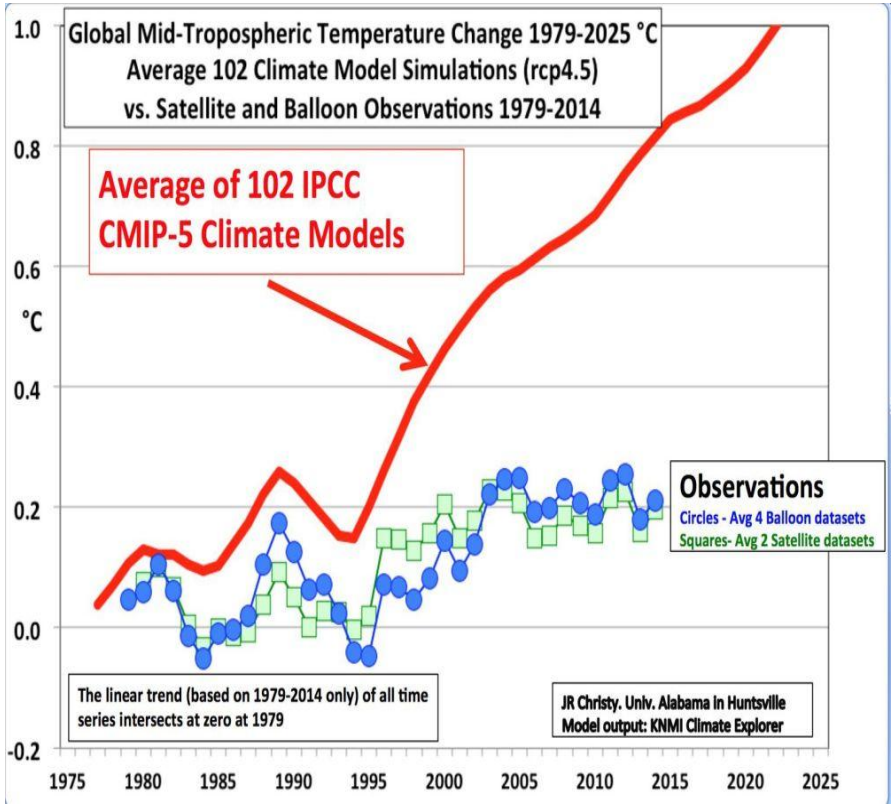
- **Sir George Simpson states that:**
  - **It is impossible to solve the problem of temperature distribution in the atmosphere by working out the radiation. The atmosphere is not in a state of radiative equilibrium and it also receives heat by transfer from one part to another.**
  - **The temperature distribution in the atmosphere is determined almost entirely by the movement of air up and down. This forces the atmosphere into a temperature distribution that is quite out of balance with the radiation. One could not, therefore, calculate the effect of changing any one factor in the atmosphere.**
- **Based on these findings, Paul Linsey shows that:**
  - **The computer models, by their chaotic nature, cannot make any long-range forecasts that are meaningful**
  - **He also shows that carbon dioxide or any other radiative gas does not act as a greenhouse gas that heats the surface by back radiation. Vibrational- Translational-Relaxation acts to massively suppress the emission of infrared photons, which means there is no "back radiation" to heat the surface. Convection and the water vapor phases have a much bigger effect on the atmosphere than radiation by infrared gases**

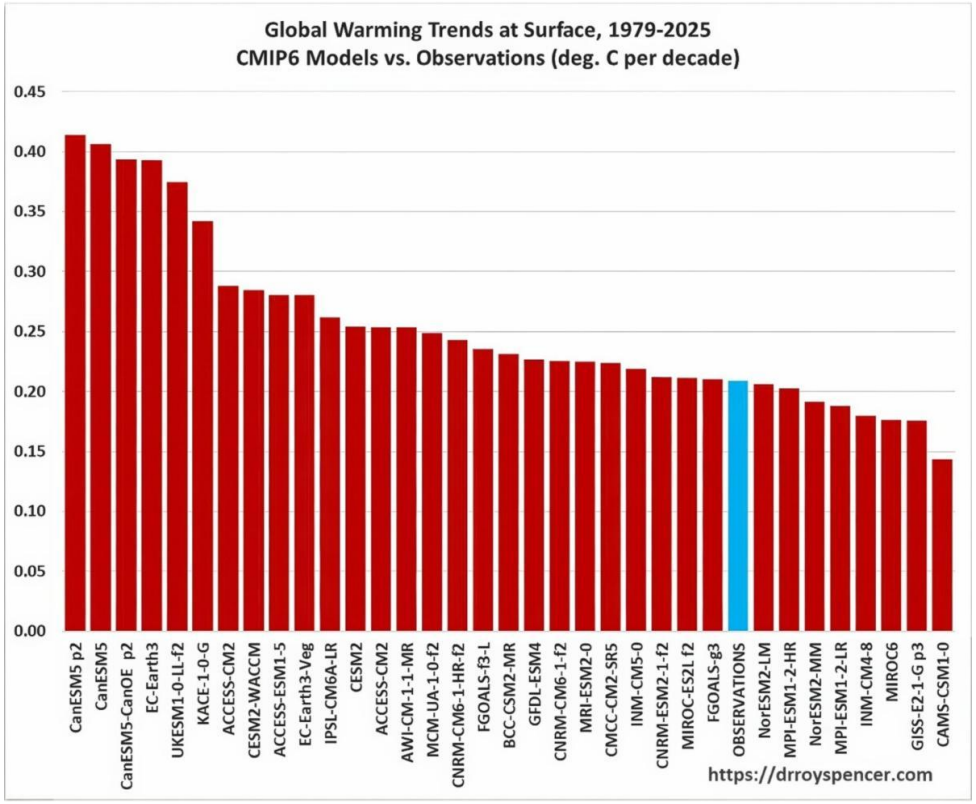
Reference Interviews with Paul Limsay
https://www.youtube.com/watch?v=hQt_I-RvGF4

7) What is impact of increasing CO_2 emissions on climate warming?

CO_2-driven climate models over estimate actual trend of climate change

Computer climate models vs actual results





Reference:John Christy: The Climate Real Deal | Science Matters (rclutz.com)

Computer Modelling Willie Soon

https://www.youtube.com/watch?v=b5oyv8I6I-g

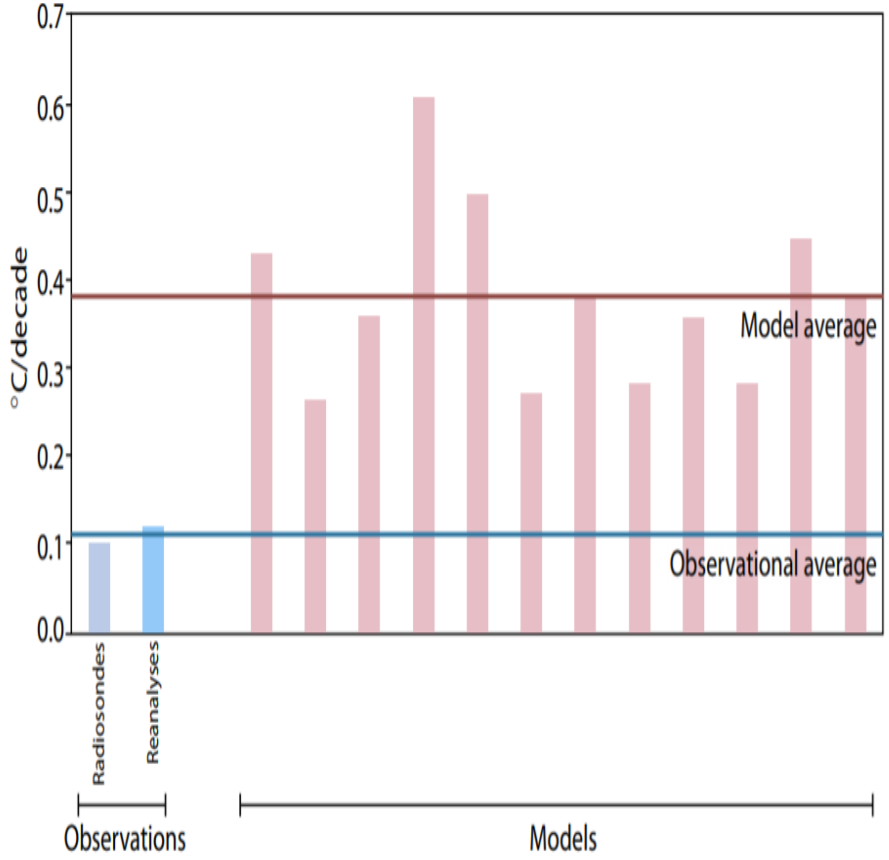
The Science and Environmental Policy Project (SEPP)

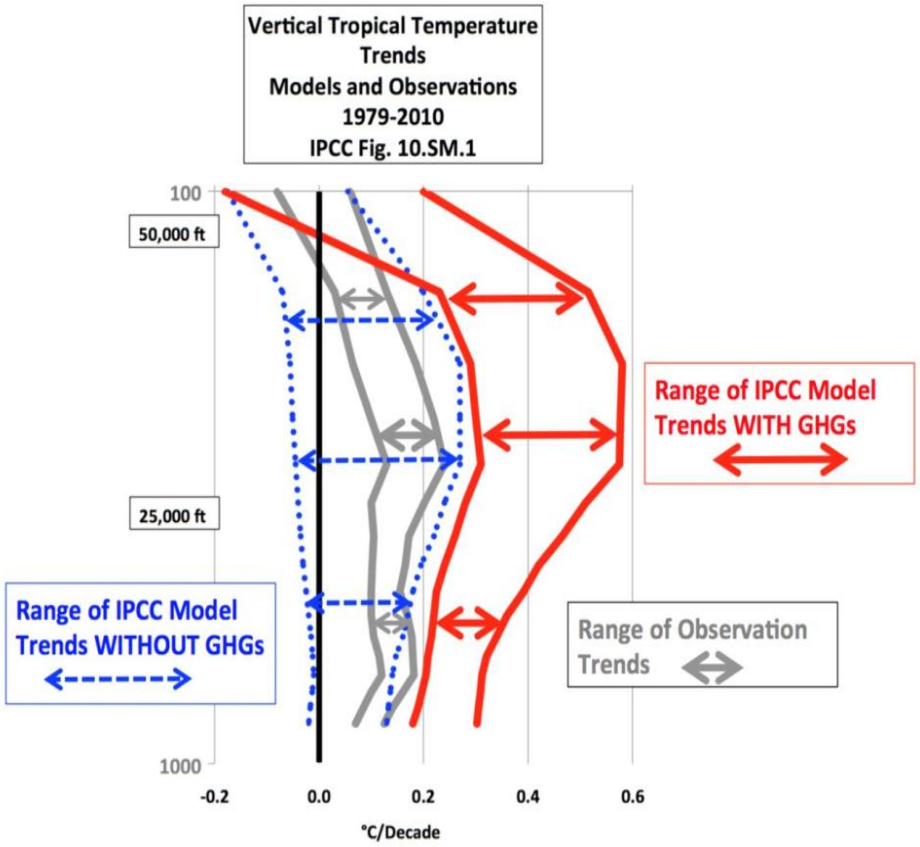
The State of Climate Science: Uncertainty, Complexity, and the Politics That Follow Anthony Watts

7) What is impact of increasing CO_2 emissions on climate warming?

CO_2-driven **climate models over estimate actual trend of climate change**

Computer climate models vs actual results





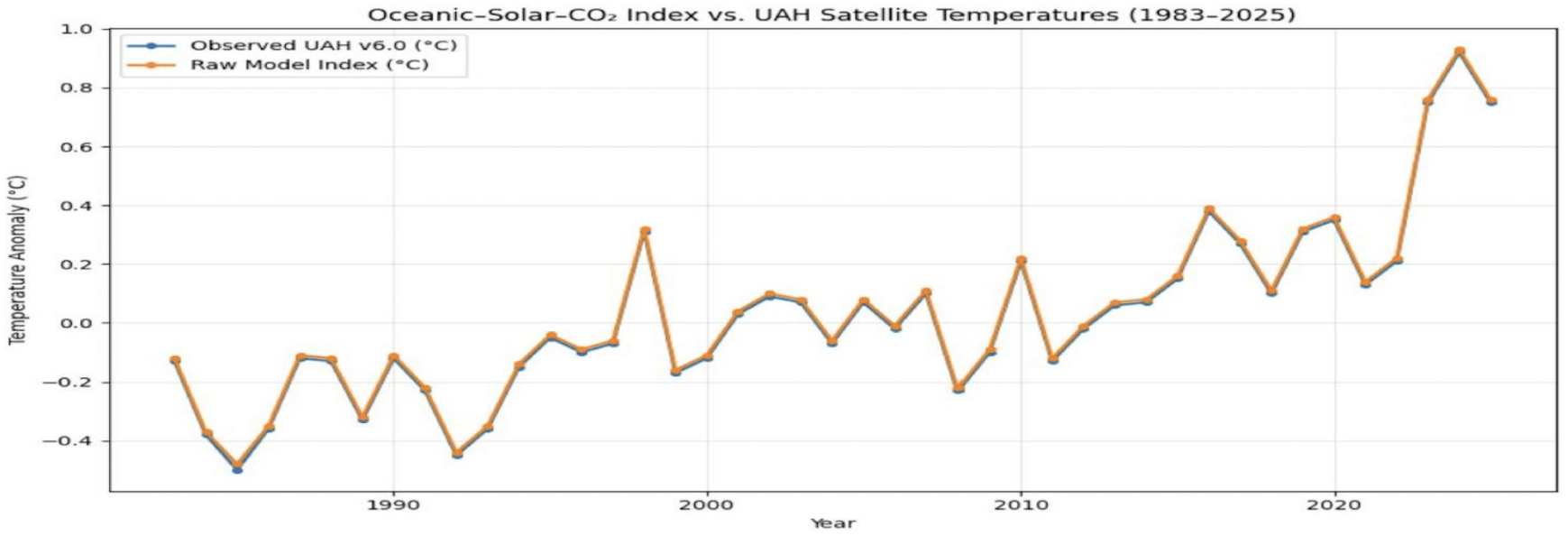
Reference: [John Christy: The Climate Real Deal | Science Matters (rclutz.com)]

7) What is impact of increasing CO_2 emissions on climate warming?

Finally, a successful climate change model that matches historic results

Paul Burgess's Oceanic – Solar – CO_2 index-based temperature modelling results versus satellite temperatures show an excellent match between 1983 and 2025. Having the model explain the temperatures so exactly shows that since 1983, 75% of the modest global warming experienced occurred due to natural events, strongly impacted by ocean current changes, with only minor CO_2 impact. Only 25% was due to mankind's added CO_2. Based on this model, another 1 degree warming, beneficial to mankind, will occur in the next 175 years.

Yearly Temperature Modeling Results 1983 -2025



Paul Burgess paper The Oceanic-Solar Index and Sea Surface Temperature A Plain-English Physical Explanation

The Sun, The Clouds, The Oceans In My Most Important Video Ever Paul Burgess's successful modelling shows that since 1983, temperature can be replicated simply by looking at the new Oceanic Index and the amount of solar radiation, not the CO_2 and a small element of CO_2.

At last the answer: how much warming is natural and how much warming is from mankind? Paul Burgess

7) What is impact of increasing CO_2 emissions on climate warming?

Paul Burgess's climate change model demonstrates the oceans' strong impact

Changes in Sea-Surface Temperature (SST) are linked to the Oceanic-Solar Index, which provides a direct, physical explanation of why CO_2 downward reflected energy cannot make a strong impact on ocean temperatures.

1. **How Energy Enters the Ocean**

The ocean is warmed mainly by shortwave radiation from the Sun. This energy moves downward into the ocean and is absorbed up to the upper 100 m water column. In contrast, **CO_2-related infrared radiation is absorbed only at the very surface (due to its radiation frequency), but does not penetrate into the ocean beyond the ocean skin surface.** Sunlight heating penetrates further downward and warms a large volume of ocean water.

2. The Hairdryer and Bath Analogy

Trying to warm the ocean using CO_2 is like trying to heat a bath with a hairdryer. The air just above the water warms briefly, but the bath itself hardly changes temperature. To heat the bath, energy must be delivered deeper into the water, not just across its surface.

3. The Oceanic-Solar Index Connection

Natural ocean cycles change winds and cloud cover. With cloud coverage, less sunlight moves downward into the ocean, reducing absorbed energy and lowering the SST.

The Oceanic-Solar Index captures this sequence and the successful modelling explains (matches) the timing of observed warming associated with the oceans and not changes in CO_2.

The Sun, The Clouds, The Oceans In My Most Important Video Ever Paul Burgess's successful modelling shows that since 1983, temperature can be replicated simply by looking at the new Oceanic Index and the amount of solar radiation, not the CO_2 and a small element of CO_2.

7) What is impact of increasing CO_2 emissions on climate warming?

Paul Burgess's climate change model demonstrates the oceans' strong impact

4 Satellite Measurements Show Limited Impact from CO_2-Reflected Heat

Using satellite measurements, the Oceanic-Solar explanation of Earth's energy balance, rather than surface ocean temperatures, demonstrates why the CO_2 downward reflected wavelength energy has minimal impact. These satellites measure how much sunlight enters the climate system, how much is reflected back by clouds, and how much energy leaves Earth again. The energy budget can be separated into two parts: all-sky covered conditions (including clouds) and clear-sky conditions (clouds mathematically removed). The key finding is that recent warming appears strongest in the all-sky covered data but is much weaker in the clear-sky data. This shows that the dominant energy change is linked to clouds and sunlight, not to greenhouse trapping in clear air. When cloud effects are removed, the apparent excess heating largely disappears, supporting the cloud-impacted solar ocean heating mechanism.

The pattern of ocean heat uptake matches what is expected from sunlight entering from above and being reflected downward, rather than from infrared heating confined to the surface.

Conclusion

Sea-surface temperature changes are controlled mainly by how much sunlight enters the ocean. Because sunlight penetrates deeply and CO_2 does not, the Oceanic-Solar Index provides a physically consistent explanation for observed ocean warming confirmed by independent satellite energy measurements.

Paul Burgess paper The Oceanic-Solar Index and Sea Surface Temperature A Plain-English Physical Explanation

The Sun, The Clouds, The Oceans In My Most Important Video Ever Paul Burgess's successful modelling shows that since 1983, temperature can be replicated simply by looking at the new Oceanic Index and the amount of solar radiation, not the CO_2 and a small element of CO_2.

7) What is impact of increasing CO2 emissions on climate warming?

Warming oceans control the release of soluble CO_2 Peter Clack

Earth's endlessly shifting climate has swung from frigid icehouse to warm interglacial for millions of years. This unpredictable pendulum is not driven entirely by CO_2, it's mostly the other way round. Warming oceans control the release of soluble CO_2 contribute[ng to oxygen levels and a greener habitable world (NASA satellite studies). The miracle of CO_2 is easily obscured. But it's the basis for all life. Much of the crisis narrative is whipped up by ambitious globalists, asset managers, opportunists and political virtue seekers. Our persistently cooling world is largely controlled by natural variability, like orbital cycles identified by mathematician Milutin Milanković and supported by science. But the endless changeability of the climate comes from many things, like variations in solar radiance, orbital mechanics, ocean currents and storms, shifting landforms and volcanic activity. Over the longer term, it also comes from the ponderous tectonic movements of the continents. We live in a pleasantly greener world, where global temperatures are around 15 degrees. This includes the 1.4 degree rise since the Little Ice Age ended — a period in which human CO_2 emissions have also contributed to this change. It has been up to 10 degrees warmer for hundreds of millions of years, mostly at a global mean of around 18-25 degrees. Mankind has evolved and lived comfortably in the Late Cenozoic Ice Age, since 34 million years ago. For the past 2.6 million years, it has become colder during the Quaternary glaciation. No one really knows the future and can't say with any certainty whether the Earth will become warmer - or colder. However,, the world can be expected to become even greener and more habitable.

Warming oceans control the release of soluble CO_2 pic.x.com/1dAdGWEjhH

Roger Pielke Sr. highlighted the importance of Ocean Heat Content as the primary metric for global warming or cooling in a seminal 2003 paper

7) What is impact of increasing CO_2 emissions on climate warming?

Scientists Rethink Extreme Warming After Surprising Ocean Discovery

Researchers have applied a temperature proxy to exceptionally well-preserved fossil phytoplankton for the first time. The results suggest that conditions in the North Atlantic have been cooler than previously believed since the Miocene epoch.

Researchers present a detailed temperature record from the North Atlantic spanning the past 16 million years—offering an important window into one such period. By applying clumped-isotope geochemistry to exceptionally pure fossil calcareous algae (coccoliths), they found that the region was significantly cooler than earlier estimates had suggested.

During the last 16 million years, with particular attention to the Miocene, atmospheric CO_2 levels, estimated at 400 to 600 ppm (parts per million) based on the latest IPCC report.

Prior sea surface temperature estimates using alkenones have contributed to the widely accepted paradigm that during past warm periods such as the Miocene, high latitudes were extremely warm and that higher CO_2 levels lead to these warmer oceans with smaller temperature differences between the tropics and the poles.

However, this new analyses using coccolith clumped isotopes offer a different conclusion. The results indicate that the North Atlantic was about 9 degrees Celsius cooler than earlier estimates suggested in spite of higher CO_2 levels.

The study suggests that temperatures in high northern latitudes during the Miocene may not have been as extreme as previously believed, and may not reach such levels in the future.

https://scitechdaily.com/scientists-rethink-extreme-warming-after-surprising-ocean-discovery/

7) What is impact of increasing CO_2 emissions on climate warming?

Complexity and uncertainty in climate models make it impossible to forecast reliably

- Comparisons amongst models on the scales required to measure the climate's response to human influences differ dramatically from each other and from observations. The simulated models' global average surface temperature varies by about 3C, three times greater than the observed value of the twentieth-century warming they're purporting to describe and explain. The models also fail to reproduce the strong warming observed from 1910 to 1940, on average giving a warming rate of about half of what was actually observed.
- Climate observations clearly show repeated behaviors over decades and even centuries. At least some of these are due to slow changes in ocean currents and the interaction between the oceans and the atmosphere (e.g., El Niño events). Cycles like these influence global and regional climates and are superimposed upon any trends due to human or natural forcings like greenhouse gas emissions or volcanic aerosols. They make it difficult to determine which observed changes in the climate are due to human influences and which are natural.
- The failure of models to warm rapidly enough in the early twentieth century suggests that it's possible, even likely, that internal variabilities contributed significantly to the warming of recent decades. That the models can't reproduce the past erodes confidence in their projections on future climates. It greatly complicates sorting out the relative role of natural variability and human influences in the warming that has occurred since 1980.
- Uncertainties in modeling both climate change and the consequences of future greenhouse gas emissions make it impossible today to provide reliable, quantitative statements about the relative risks, consequences and benefits of rising greenhouse gases.

Reference: Unsettled What Climate Science Tells Us, What It Doesn't, and Why It Matters Chapter 4 Steven Koonin

7) What is impact of increasing CO_2 emissions on climate warming?

There are two great errors to address in overturning the CO_2 endangerment finding.

Dr William Happer's comments

- There are two great errors to address in overturning the CO_2 endangerment finding.

- First is the error of bad science. As I understand it, all the CMIP suite models are tuned with fudge factors to improve their hindcasting, and therefore, it is assumed that their forecasting. Any such tuning is essentially a Deus ex machina violation of physics. Same is true for the expediencies of oversimplifying the calculations by making massive assumptions with the models that insolation is invariable, geothermal forces are negligible, ocean thermal reservoir and outgassing follow rather than lead climate changes, the Earth's complete heat budget is known, and that conservation of energy for the earth's surface climate system need be only applied to photons in the light spectrum originating from the Sun. It is also a crime against science to feed a model with fabricated data points created by itself or other models, as this is recursive and exponential reinforcement of error. Predictive power is the essence of truth and predictive power has been both weak and systemic rather than random in error, indicating baked-in bias that has not been corrected in the 50 years since climate alarmists switched from particulate-induced ice age to CO_2-induced hothouse.

7) What is impact of increasing CO_2 emissions on climate warming?

There are two great errors to address in overturning the CO_2 endangerment finding.

Dr William Happer's comments

- Second is the error of bad assessment. The only rational way to make policy from science is to do a thorough benefit-cost analysis – both ecological and economic. For CO2, this would require opening the aperture beyond the one-dimensional demonization of CO2 as the sole control knob of global warming, to include its full scope of effects on the health and flourishing of nature and humans. It would weigh actual observations and trends over the predictions of falsified and preposterously simplistic models. It would include an honest assessment of whether warming is net harmful or net beneficial, as well as to what degree CO2 is actually responsible. It would look at hard data showing shrinking deserts and the net greening of the Earth, increasing (not decreasing) coastal and coral atoll land area, the current 17:1 ratio of cold-related to heat-related deaths, the critical phenomena of improved water efficiency of plants and crops with higher CO2 PPM in the context of an increasingly water-constrained human civilization, the lack of any distinguishable trends for extreme and cyclonic weather intensity or frequency, historical and geologic records showing worse flooding and wildfires and sea level rise rates in the distant and recent past, etc. The assessment piece is human judgment applied to empirical data, and it is the assessment that drives public opinion, policy, research, and action. If we don't win this argument, the data and the science are irrelevant.

7) What is impact of increasing CO2 emissions on climate warming?

Adding more CO2 has a very minimal and decreasing impact on climate warming

- **Compared to natural phenomena like the Sun's energy emission, tilt, rotation of the earth, clouds and ocean effects, adding CO2 has a minor effect on climate and temperature.**
- Nobody doubts whether carbon dioxide is a greenhouse gas; the real questions are how much additional radiant energy CO_2 is currently absorbing compared to the past, and what impact this has on the climate.
- **CO2 represents only about 5% of total greenhouse gas. The impact of increasing CO2 in the atmosphere has an ever-reducing logarithmic effect on increasing temperature. If the current 417ppm doubles, there would be a negligible impact. From 1900 to 2020, CO2 levels increased by 120 ppm and temperature increased by 0.8C. To reach the last 350,000 years +5 °C high, CO2 would need to increase by 15,120 ppm over 720 years.**
- **All the computer-generated climate models to date have not been able to replicate past climate changes and therefore, are not at all reliable for making future climate predictions.**
- **In the case of climate change, how likely is it that humans, rather than other factors such as solar activity, cause most of the warming? Previous periods of warming could not have been caused by increased greenhouse gases from humans, so it seems reasonable to assume that the probability that humans caused most of the recent increase in temperature is very low.**

See the video John Christy: Climate models for politics?..."A bridge too far" – YouTube

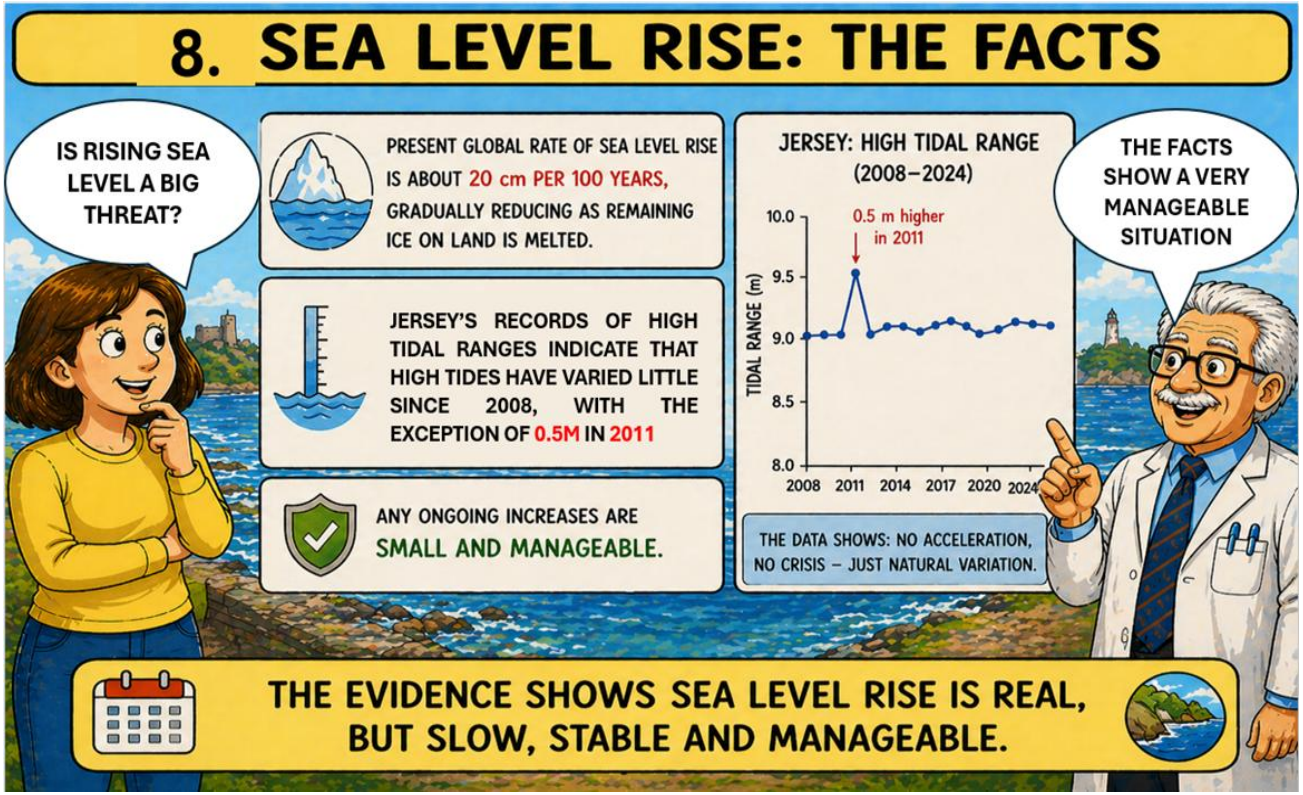
Reference book Climate All is Well, All Will be Well Jeremy Nieboer page 8, 12, 13, 14

The Procecutor's Fallacy and the IPCC Report Norman Fenton The Global Warming Policy Foundation 2023

https://www.theepochtimes.com/article/fixation-on-co2-ignores-real-driver-of-temperature-say-experts-5588495?utm_source=Morningbrief&src_src=Morningbrief&utm_campaign=mb-2024-02-20&src_cmp=mb-2024-02-20&utm_medium=email&est=AAAAAAAAAAAAAAAAdeokeBIfzdPH4LYa6DB5DLl7wk9AJCYDwskfcLqaGzqIMxfM63pAbQ%3D%3D

Question 8

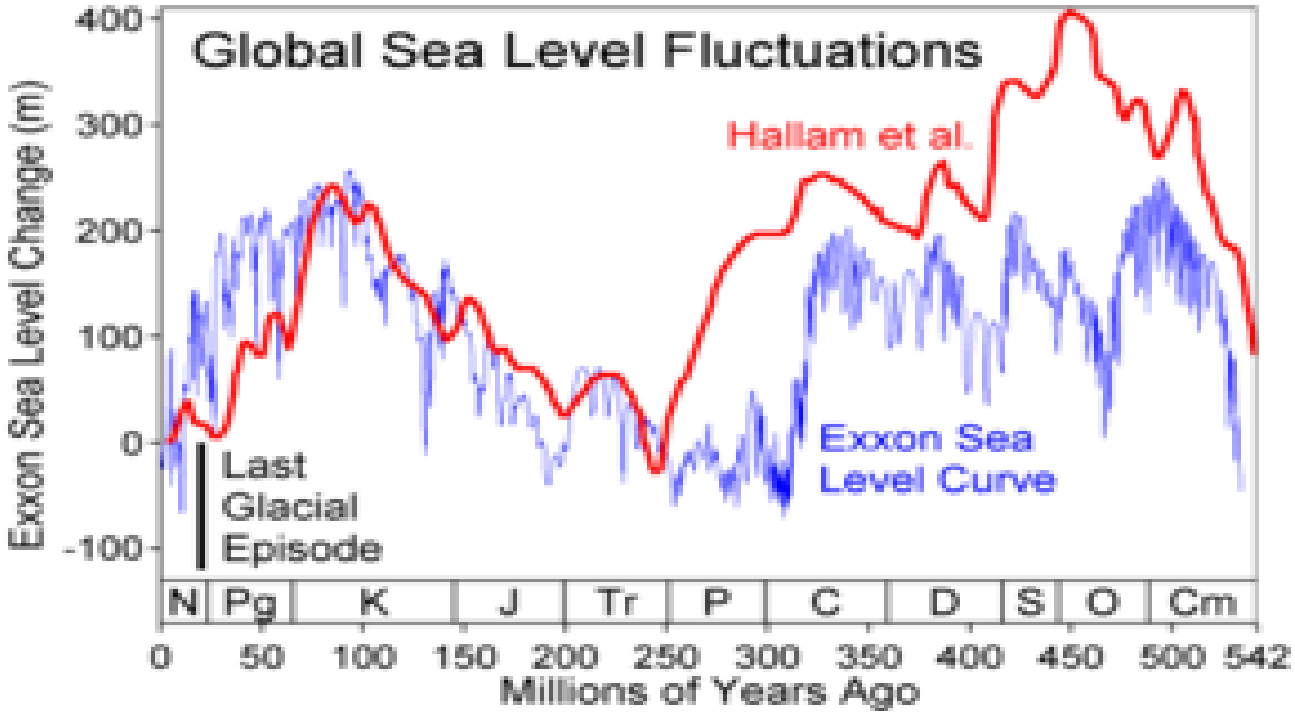
Is sea level rise and rate of rise unusual and a major concern ?



8) Is sea level rise and rate of rise unusual and a major concern ?

Two independent graphs showing sea level changes over last 542 million years

- Global sea level has changed significantly over Earth's history and change is not new.
- 6,000 years ago, the average sea level was more than 6 feet higher than today.
- The main factors affecting sea level are the amount and volume of available water, including water taken up as ice caps and the shape and volume of the ocean basins.



- Geologists have used this global sea level change information to assist their exploration efforts.

Source: Wikipedia, Peter Vail publications

Source: Heaven and Earth, Global Warming and the Missing Science Plimer 2009

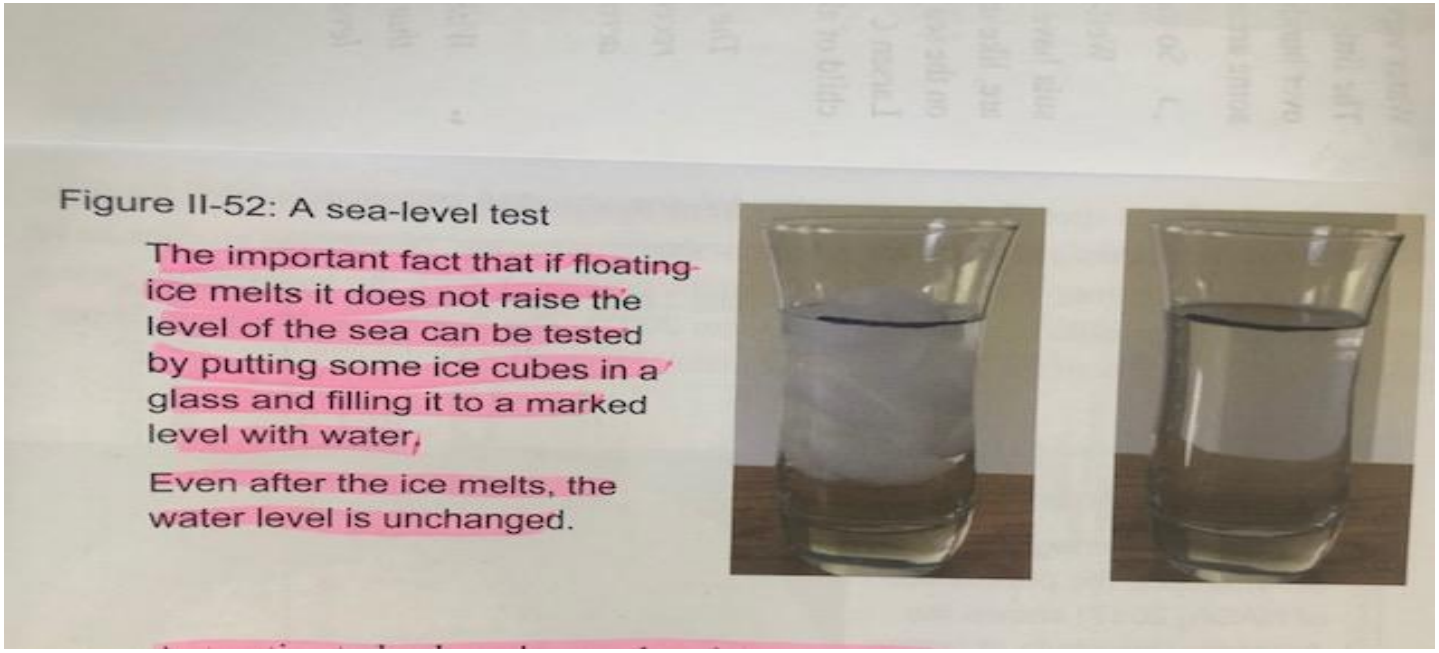
Archaeologists find underwater island previously home to hundreds of thousands of people (msn.com)

8) Is sea level rise and rate of rise unusual and a major concern ?

Basic physics: experiment showing impact of melting ice in water

- When ice in a glass of water melts, there is no change in water level. The ice cube displaces its own weight in the underlying water and the water level remains constant when the ice melts, because the melting process replaces the water that has already been displaced by the ice. This effect is known as **Archimedes' principle**.
- Melting the remaining polar ice caps that float on water will not materially impact sea levels; only the remaining ice on land can raise sea levels.

Water Level Test: Ice in Water and Melted Ice – No Change in Water Level



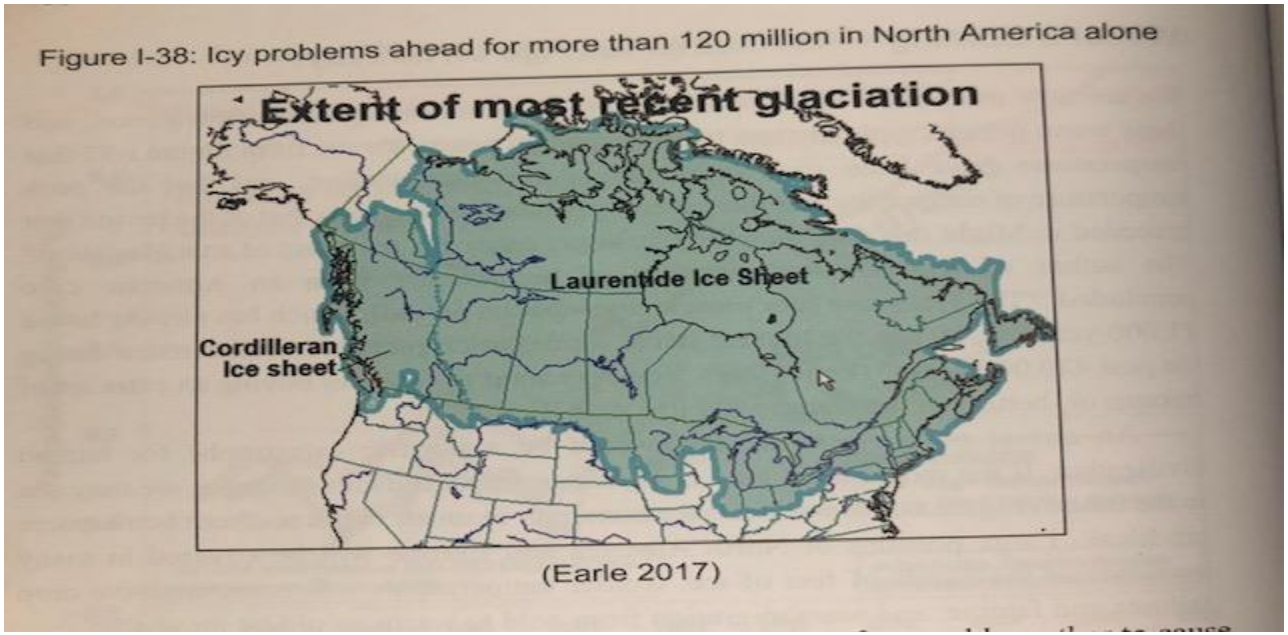
Reference book: Inconvenient Facts page 119

8) Is sea level rise and rate of rise unusual and a major concern?

Map showing extent of most recent glaciation over North America

- Most of North America's large ice cap has now melted and resulted in a previously experienced rapid rise in sea level. Only Greenland, Iceland, northern Alaska and northern Siberia now contain glaciers in the Arctic region.
- The global remaining ice caps on land are now much less, with correspondingly less impact.
- Following glaciation, sea level rise was due to ice melting plus sea warming and expansion.

Extent of Most Recent, Melted North America Glaciation



Reference book: Inconvenient Facts page 50

Source: Earle 2017

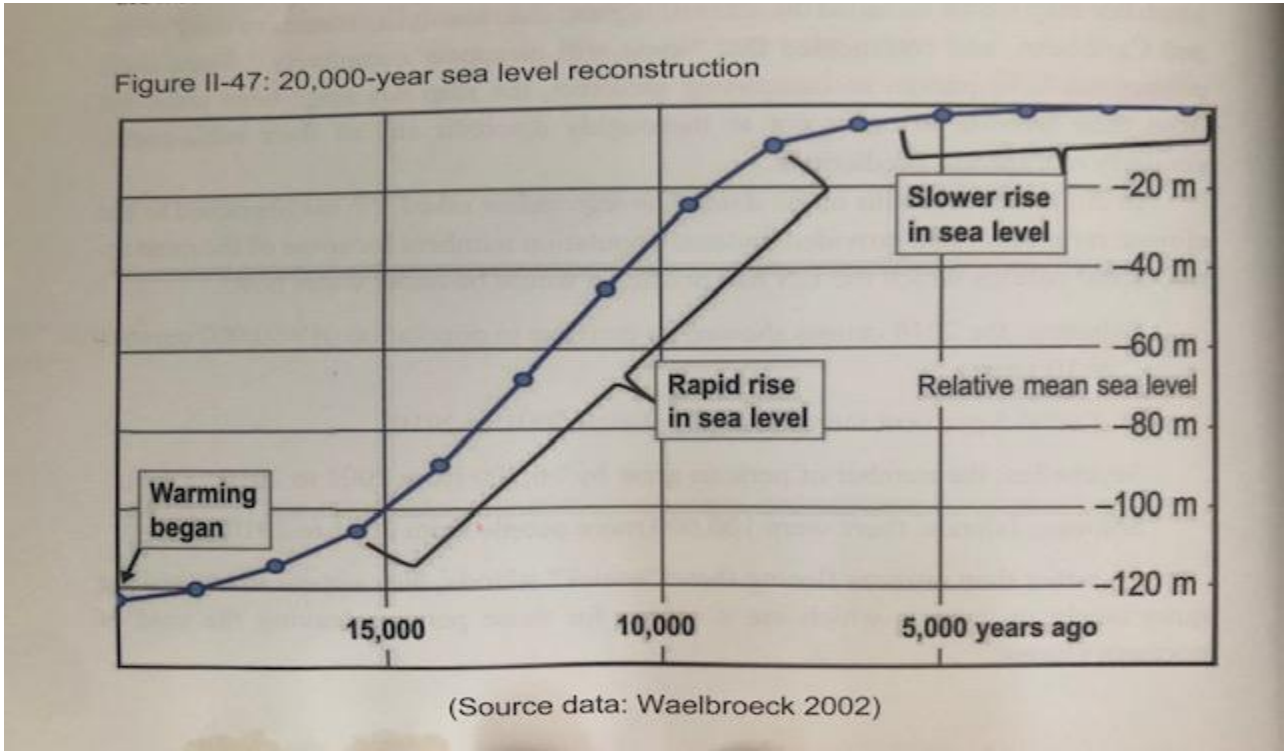
Henrik Svensmark & Nir Shaviv - How the sun regulates our climate – YouTube

8) Is sea level rise and rate of rise unusual and a major concern?

Graph showing stages of sea level rate changes through melting ice cap over last 20,000 years

- Over the last 6 million years of several ice ages, the primary driver of sea level changes was periods of glaciation, which locked up huge amounts of water, drawing down sea levels, followed by periods of melting and rising seas. Warming and thereby expanding seas added to rising sea levels.
- During warmer interglacial periods, melting ice from land yielded much higher sea levels with less recent impact

2000-Year Sea Level Reconstruction



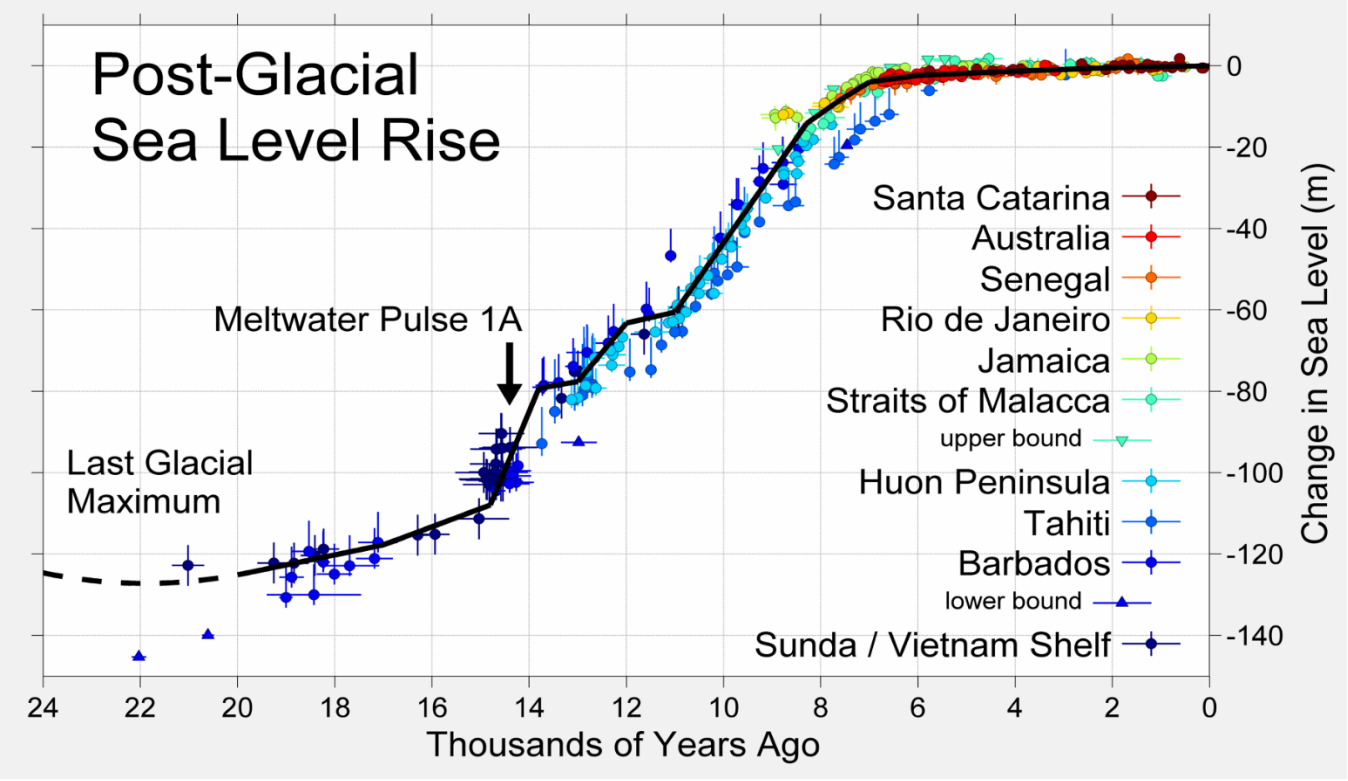
Reference book: Inconvenient Facts page 114

Source: Waelbroeck 2002

8) Is sea level rise and rate of rise unusual and a major concern?

Graph showing measured sea level changes through melting ice cap over last 24,000 years

- Since the melting of the North American ice cap, **sea level rise** has decreased dramatically and **has been comparatively stable over the past 6,000 years**
- **Between 1901 and 2018, the globally averaged sea level rose by only 15 to 25 cm**



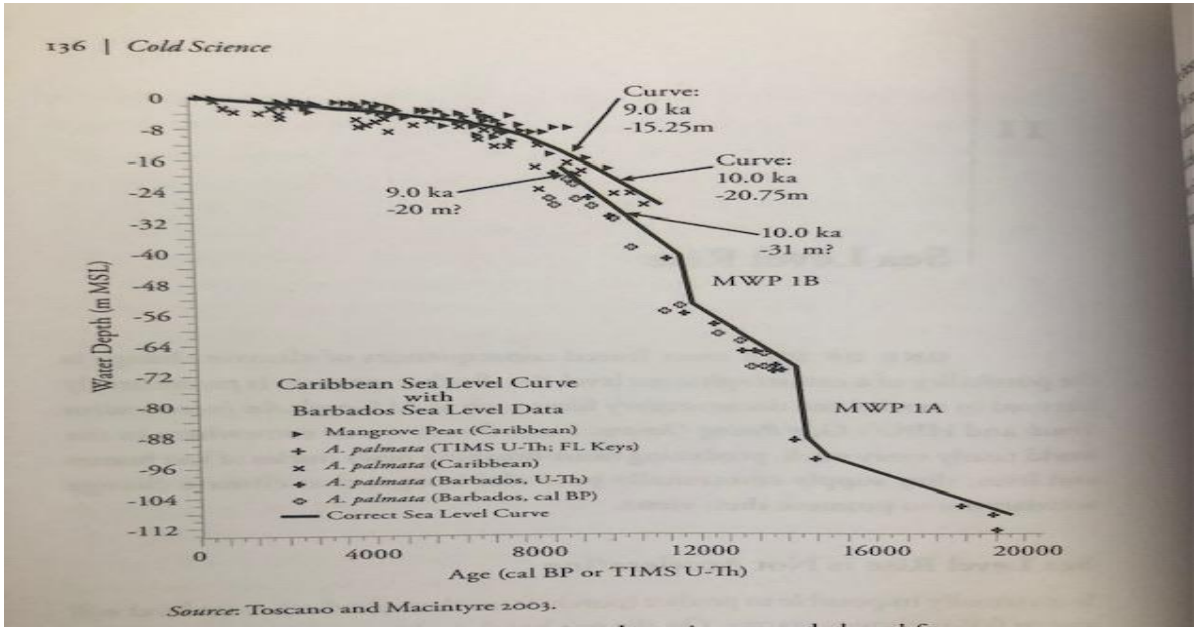
Reference book: Fake Invisible Catastrophes and Threats of Doom page 63
Source: Wikipedia

8) Is sea level rise and rate of rise unusual and a major concern?

Graph showing measured sea level changes through melting ice cap over last 20,000 years

- Sea level since the last glacial maximum, as deduced from coral and peat data, also shows the rapid sea level rise as continental ice sheets melted and a more modest rise since then.
- This modest rise was irrespective of global temperature fluctuations and recent increases in CO_2.

Post-Glacial Sea Level Rise



- Sea levels may continue to rise at these rates (about 20 cm per 100 years), but this is manageable.
- Societies can adapt to sea level rise in three different ways: implement managed retreat, accommodate coastal change, or protect against sea level rise through hard-construction practices like seawalls or soft approaches such as dune rehabilitation and beach nourishment. Focusing on reducing CO_2 emissions won't help.

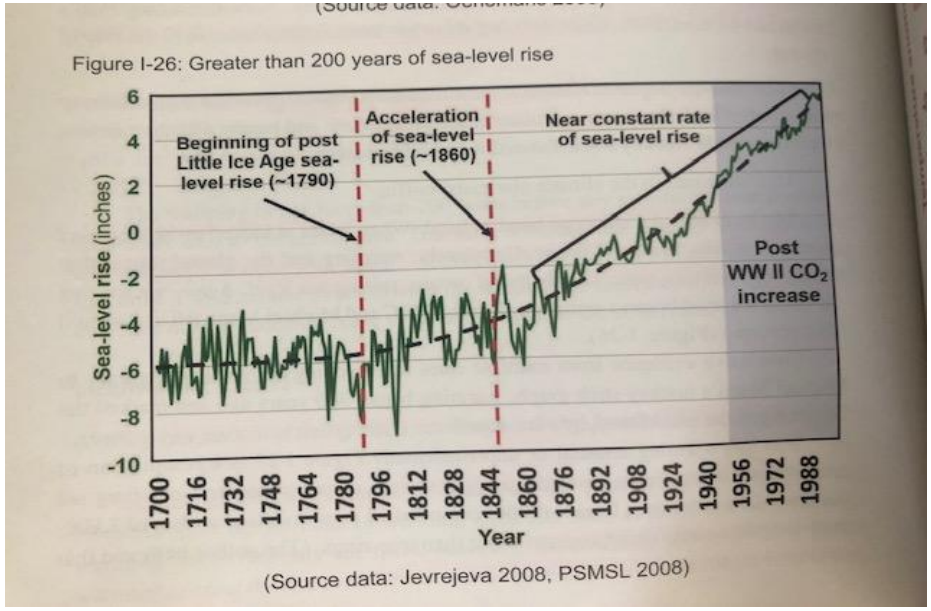
Reference book Hot Talk Cold Science page 136
Source: Toscano and Macintyre 2003

8) Is sea level rise and rate of rise unusual and a major concern?

Graphs showing rate of sea level rise between 1700 and 2020 with period of increasing CO_2 highlighted

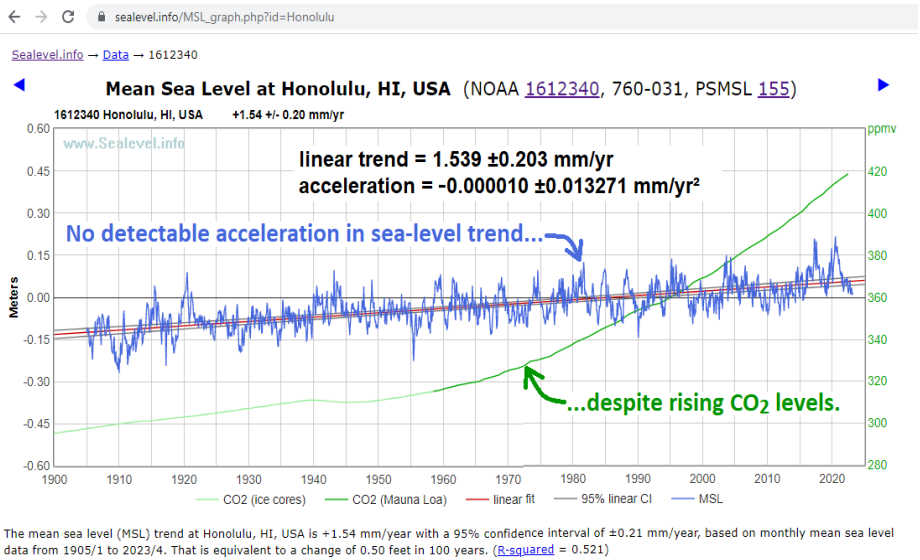
- Sea level rise rates since 1844 have not changed with CO_2 increases.
- From 1898 to 1998 sea level has risen 20 cm, which is the same rate (20 cm per 100 years) over the previous 100 years – there was no change in the rate of sea level rise with more recent CO_2 increases.

Sea Level Rise 1700 – 1988



Sea Level Rise 1900 – 2020 and CO_2 Rise

sealevel.info/learnmore.html



Reference book: Inconvenient Facts page 36

Source: Jevrejeva 2008, PSML 2008

Video Ivan Giaever: //www.foreignpolicyjournal.com/2016/01/01/nobel-laureate-ivar-giaever-on-climate-change/

8) Is sea level rise and rate of rise unusual and a major concern?

The rate of rise we've seen over the past centuries is not increasing,

- At the peak of the last ice age, 20,000 years ago, sea levels were 400 feet lower than today.
- As the ice sheets melted, oceans surged upwards, rising at an average of 15 mm per year between 15,000 and 8,000 years ago.
- During 'Meltwater Pulse 1A', seas shot up by 50 feet in just 500 years - a foot per decade as ice sheets collapsed. But by 6,000 years ago, the Great Melt was largely complete.
- Since then, sea levels have been relatively stable. Yet today, we're told to believe that the last few inches are catastrophic and all our fault, not part of the natural cycles that have driven Earth's climate time immemorial.
- That ignores history, data and basic science.
- The rate of rise we've seen over the past centuries is not increasing, according to global tidal gauge data.
- A recent study of 204 tidal gauges worldwide found 95% show no statistical acceleration, and the few that do are explained by local land motion/subsidence - not climate change.

New Study Finds Sea Level Rise Has Not Accelerated Due to Climate ...

https://x.com/i/status/2027549315586265239

8) Is sea level rise and rate of rise unusual and a major concern?

The rate of rise we've seen over the past centuries is not increasing,

Changing Seas:

- For centuries sea level rise has been measured by tidal gauges. These gauges often reflect local conditions. In the Gulf of Bothnia (between Sweden and Finland) sea levels are falling because the land is rebounding from being depressed from the weight of ice during the Ice Age. Along the coastal US and Gulf of Mexico, sea levels are rising dramatically due to land subsidence, primarily from extracting groundwater.
- Even geologically stable areas can show dramatic changes in sea levels. The Newlyn Tidal Observatory, Cornwall England, was built over 100 years ago as a reference benchmark because it is geologically stable. Yet due to changing prevailing winds, periods of increasing and decreasing sea level rise have been recorded. The effects of shifts in the prevailing winds applies to other areas as well, particularly in the western Pacific such as in the South China Sea where winds from the East can have a reach of thousands of miles piling up water. Thus, long-term observations are needed to draw any conclusions of accelerating or slowing sea level change.
- Unfortunately, alarmist publications have used certain satellite measurements as a demonstration of increasing sea level rise. This is false. ***Direct, long-term tide gauge measurements around the world do not show the dramatic acceleration implied in the satellite-based narrative. Tide gauges measure what actually affects people, sea level at the coast. Satellite altimetry measures global averages across the open ocean.***
- Weekly Climate and Energy News Roundup #694 - Watts Up With That?

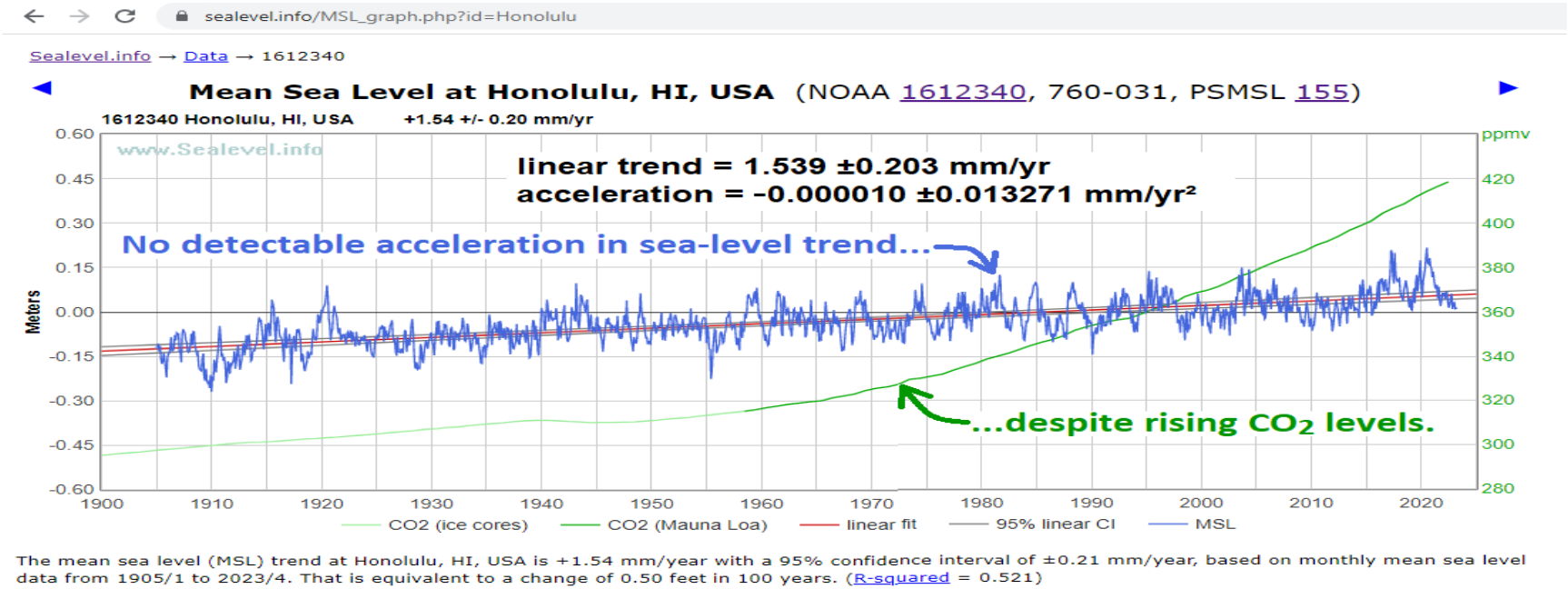
8) Is sea level rise and rate of rise unusual and a major concern?

Graph showing rate of sea level rise between 1700 and 2000 with period of increasing CO_2 highlighted

- Sea level rise rates since 1844 have not changed with CO_2 increases.
- From 1898 to 1998 sea level has risen 20 cm, which is the same rate (20 cm per 100 years) over the previous 100 years – there was no change in the rate of sea level rise with more recent CO_2 increases.

Sea Level Rise 1700 - 1988

sealevel.info/learnmore.html



Reference book: Inconvenient Facts page 36

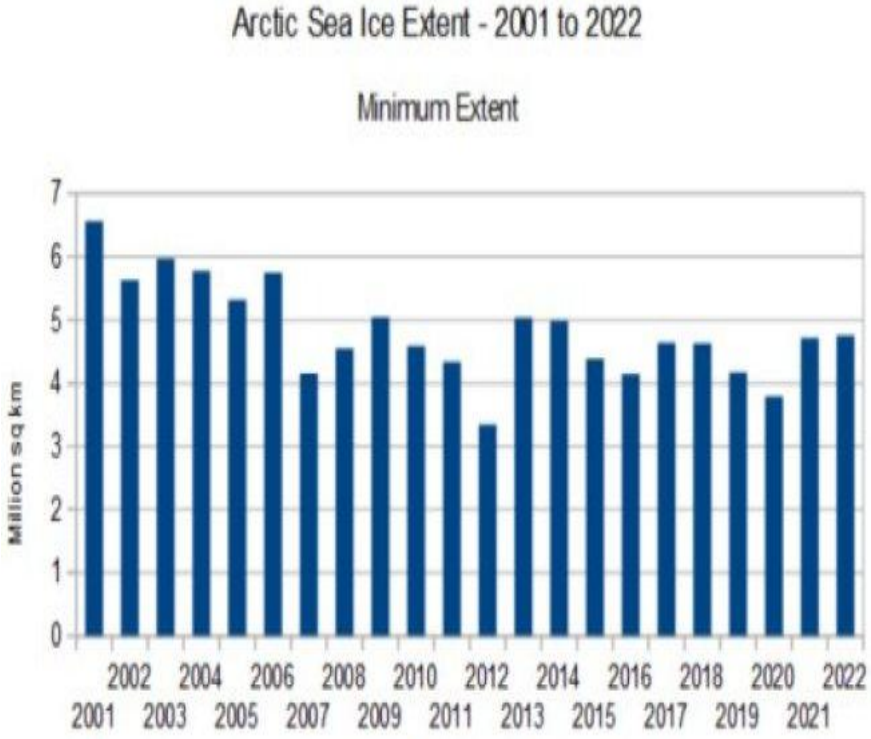
A Global Perspective on Local Sea Level Changes https://www.mdpi.com/2077-1312/13/9/1641

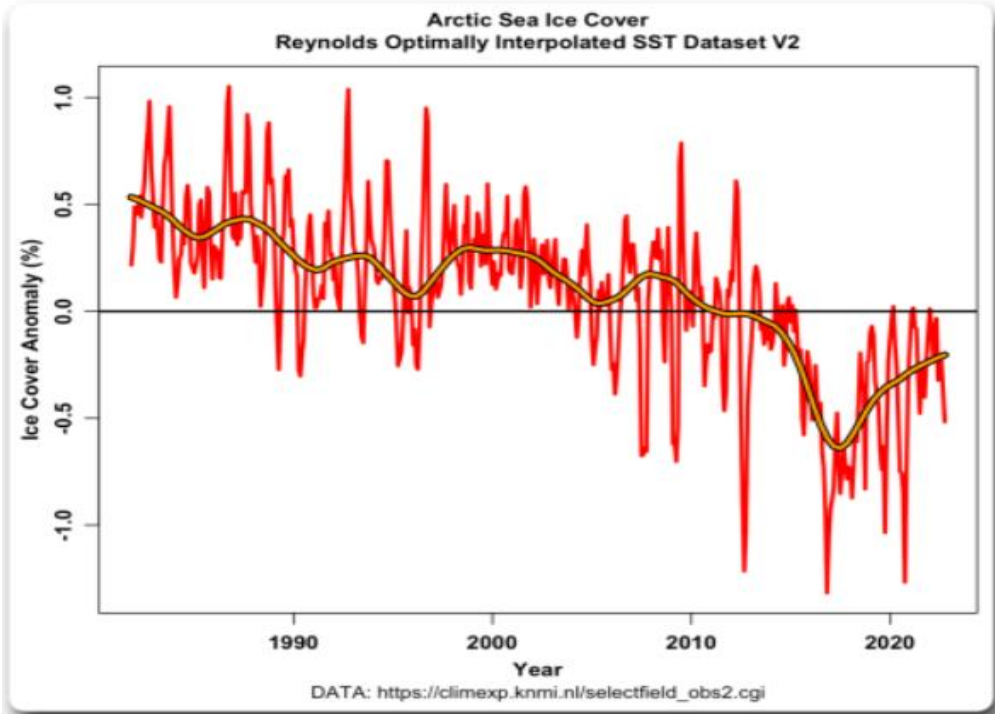
8) Is sea level rise and rate of rise unusual and a major concern?

Changes in Arctic Sea Ice 1995 to 2022, no change in Antartic ice

- Arctic Sea ice shows no change in minimum extent since 2007, with an increase since 2009
- Antarctica hasn't warmed over 70 years despite a rise in CO_2 levels

Changes in Arctic Sea Ice from 2001 to 2022





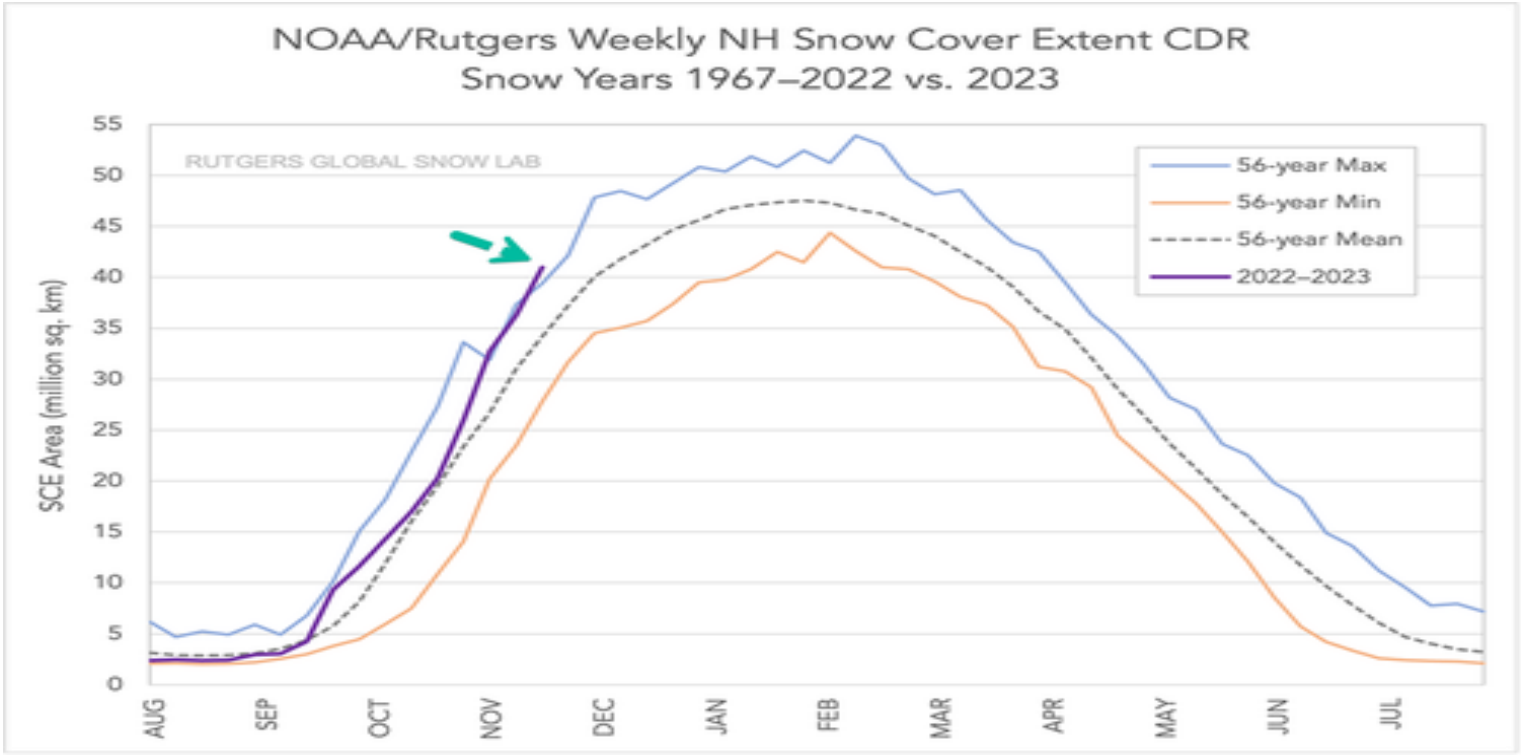
Source: https://nsidc.org/data/seaice_index/data-and-image-archive

https://dailysceptic.org/2023/01/29/scientists-struggle-to-understand-why-antarctica-hasnt-warmed-for-over-70-years-despite-rise-in-co2/

8) Is sea level rise and rate of rise unusual and a major concern?

Recent increase in snow fall levels in Northern Hemispher

• NOAA and Rutgers University released new data that showed snow cover across the Northern Hemisphere reached the highest level since measurements began in 1967 and is currently above the 56-year mean



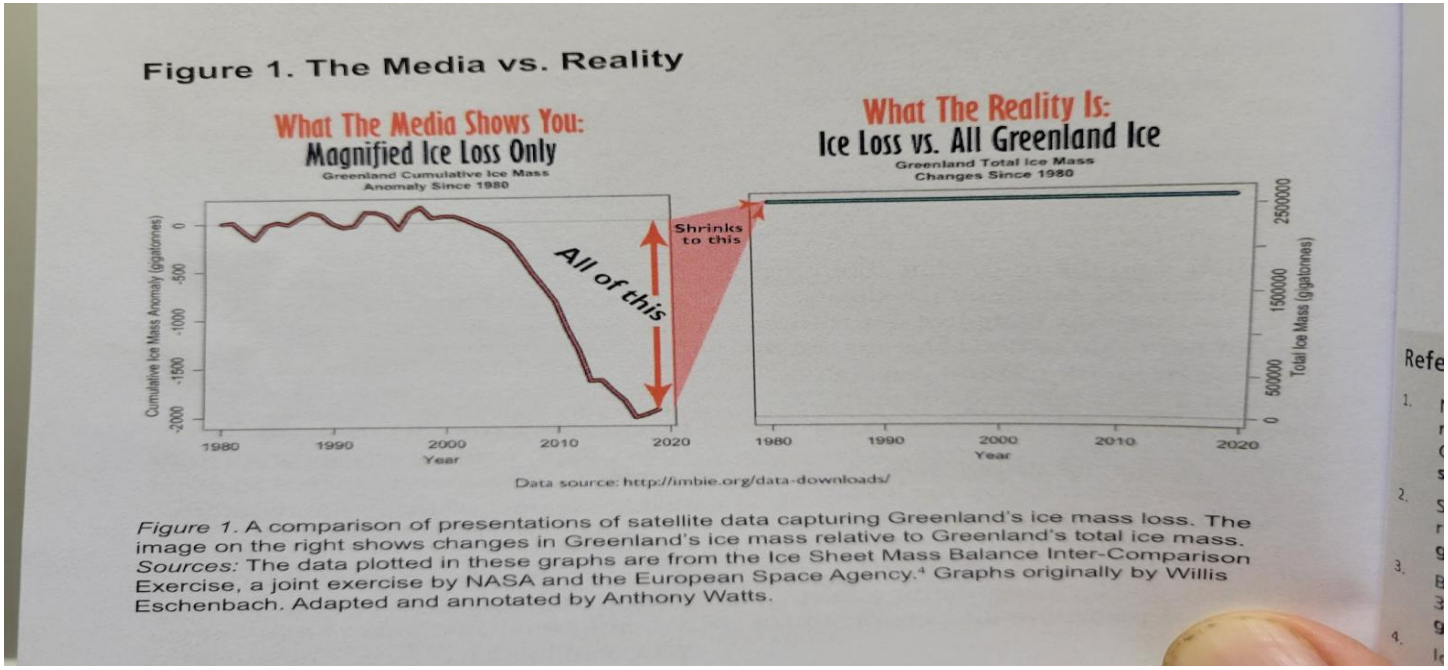
Source: NOAA and Rutgers University

8) Is sea level rise and rate of rise unusual and a major concern?

An example of misrepresenting information – recent loss versus total Greenland ice

- Climate activists claim the Greenland ice sheet is melting six times faster than it was 30 years ago, but 30 years ago, it was not melting.
- When recent ice loss is compared to the full Greenland ice sheet, the loss is minimal.
- The Antarctic has been experiencing record sea ice coverage since satellite measurements began.

Recent Greenland Ice Sheet Melt vs Total Greenland Ice Sheet Size



Reference book: Climate at a Glance page 27, 28

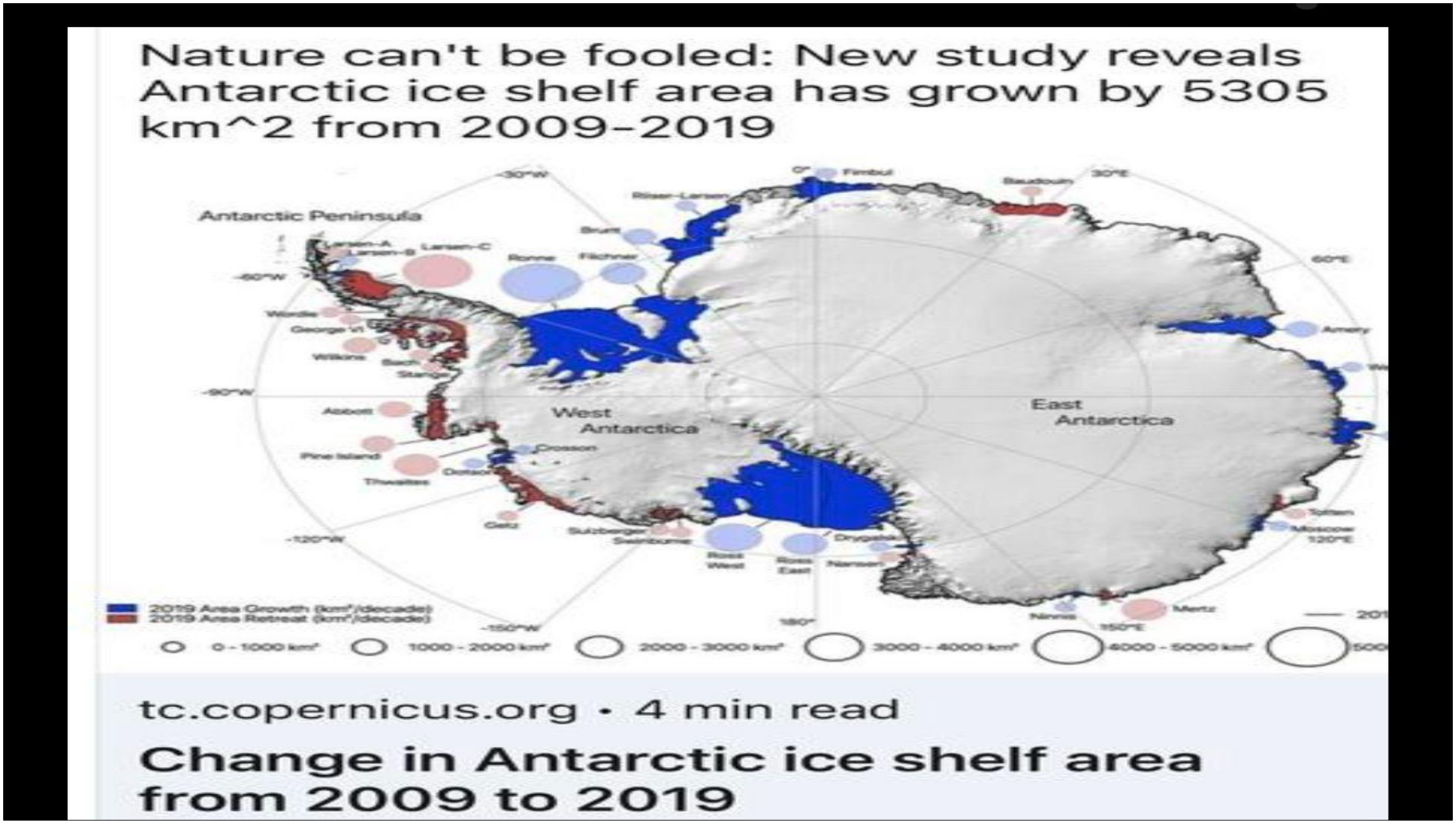
Source: The Ice Sheet Mass Balance NASA and the European Space Agency

Reference Book: Cool It by Bjorn Lomberg page xiv Foreword

8) Is sea level rise and rate of rise unusual and a major concern?

Recent gain in Antarctic ice sheet

Antarctic ice shelves provide buttressing support to the ice sheet, stabilizing the flow of grounded ice and its contribution to global sea levels. Over the last decade, a reduction in the area on the Antarctic Peninsula (6693 km^2) and West Antarctica (5563 km^2) has been more than offset by growth in East Antarctica (3532 km^2) and the large Ross and Ronne–Filchner ice shelves (14 028 km^2).

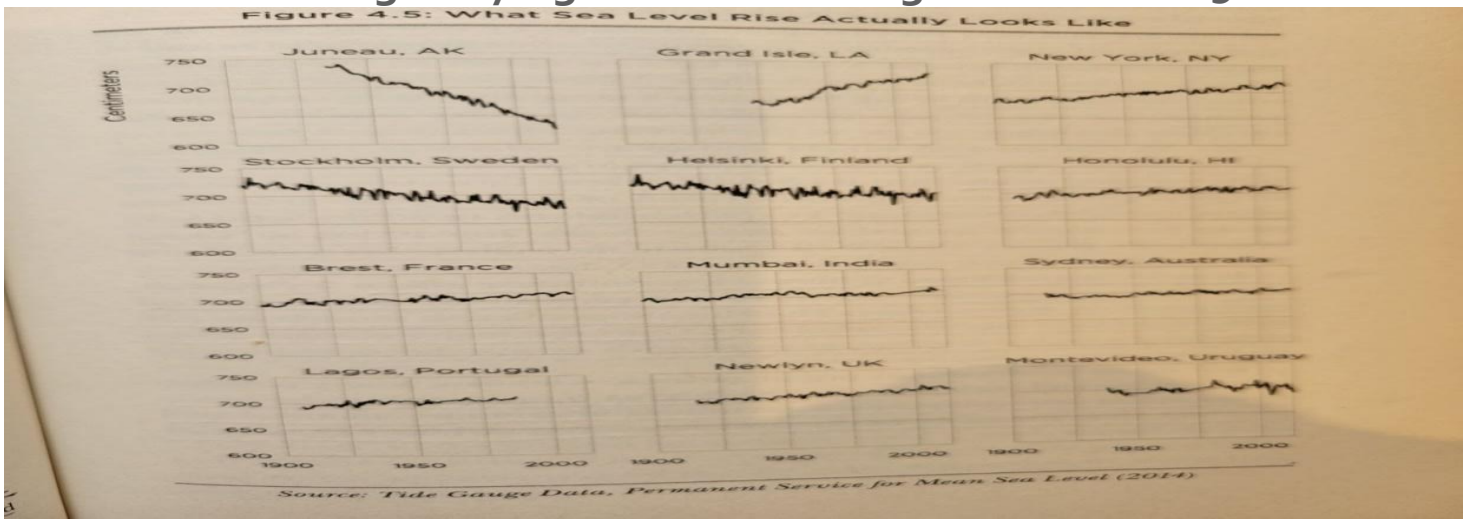


8) Is sea level rise and rate of rise unusual and a major concern?

Area comparisons of changing sea levels between 1900 and 2000

- Given the moderate temperature changes since 1900, we wouldn't expect warming to have a dramatic effect on sea levels and it hasn't.
- From 1900 to 2000, sea level trends from locations throughout the world are variable; some smooth, some rising, some falling.
- Local sea level rise differs due to local factors like tectonics and subsidence and changing temperatures and currents

Areas Showing Varying Sea Level Changes Between 1900 - 2000



Reference book: The Moral Case for Fossil Fuels page 107

Reference book: Unsettled Chapter 8

Source: Tidal Gauge Data, Permanent Service fot Mean Sea Level (2014)

Ivan Giaever: //www.foreignpolicyjournal.com/2016/01/01/nobel-laureate-ivar-giaever-on-climate-change/

8) Is sea level rise and rate of rise unusual and a major concern?

Area comparison of changing sea levels between 1898 and 2017

The Intergovernmental Panel on Climate Change stated, “No significant acceleration in the rate of sea level rise during the 20th century has been detected.” Long-term tide gauge records show a long, steady rise in relative sea levels over the entire length of their records, sometimes longer than a hundred years, with no acceleration. NOAA places this rate of rise at about 1.7-1.9 mm per year. NOAA Tides and Currents: “The absolute global sea level rise is believed to be 1.7 +/- 0.3 millimeters/year during the 20th century.”



https://wattsupwiththat.com/2023/10/06/nothing-to-sea-here-folks/

https://www.perplexity.ai/page/dutch-study-challenges-sea-lev-XgQhV3.uTDicIbaCPw3nGA

8) Is sea level rise and rate of rise unusual and a major concern?

Sea level rise is not unusual; the present, modest rise can be dealt with

- **Global sea level has changed significantly over Earth's history; this is not new.**
- **Since the last glacial maximum, sea levels showed a rapid rise as continental ice sheets melted, with a more modest rise since the majority of land held ice had melted.**
- **There is little evidence that reducing CO_2 emissions will reduce sea level rise or that any CO_2 contribution has been or will be a significant contributor to sea level rise**
- **Humans adapt proactively and such adaptation can greatly reduce possible impacts. The main consequence of a large-scale rise in sea level is a larger investment in protection infrastructure**
- **Small islands easily adapt and grow with rising sea levels**
- **Societies can adapt to the present 20cm/100-year sea level rise by:**

i) **Implementing a managed retreat,**

ii) **Accommodating coastal change,**

iii) **Protecting against sea level rise through hard-construction practices like seawalls or soft approaches such as dune rehabilitation and beach nourishment.**

https://notrickszone.com/2023/02/07/sea-level-is-stable-around-the-world-the-good-news-the-media-dont-want-us-to-hear/

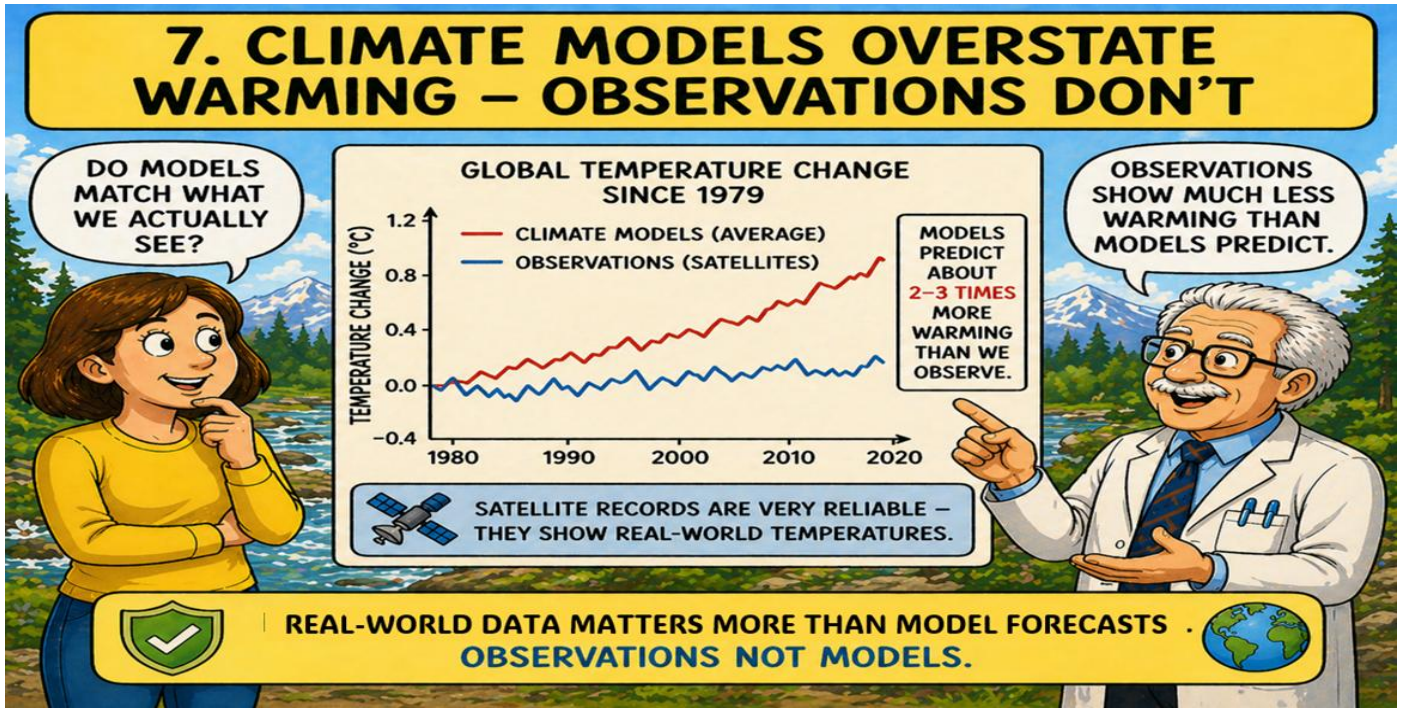
Reference books: Unsettled Steven Koonin Chapter 8; False Alarm Bjorn Lomberg page 33

Rising sea level and impact on small Islands video: https://youtu.be/Yv83NJcmU7k;

https://youtu.be/X-y3-QS72QY?si=wD-EWVCITeiI48-n Investment community does not see a threat from sea level rise

Question 9

What about the scientists' man-made Global Warming crisis consensus?



Quote by Leo Tolstoy: "Wrong does not cease to be wrong because the majority share in it."

https://sealevel.info/Unsettled-Climate_Changes_Real_Story-NewsMax_and_the_CO2_Coalition-2026-with_ads.mp4

9) What about the scientists' man-made Global Warming crisis consensus?

Notable Quotables on Consensus

- **You have likely heard that 97% of scientists agree that increasing greenhouse gas emissions are driving unusual and unprecedented dangerous warming. The 200-plus scientists and experts at the CO_2 Coalition take strong exception to this. Many notable scientists and historical figures also disagree on the application of "consensus science."**
- *I don't see a whole lot of difference between the consensus on climate change and the consensus on witches. At the witch trials in Salem the judges were educated at Harvard. This was supposedly 100% science. The one or two people who said there were no witches were immediately hung. Not much has changed.* - Will Happer
- *In questions of science, the authority of a thousand is not worth the humble reasoning of a single individual.*- Galileo
- *There is no such thing as consensus science. If it's consensus, it isn't science. If it's science, it isn't consensus. Period.*- Michael Crichton
- *I would rather have questions that can't be answered than answers that can't be questioned.*

  - Richard Feynman
- *I regard consensus science as an extremely pernicious development that ought to be stopped cold in its tracks. Historically, the claim of consensus has been the first refuge of scoundrels; it is a way to avoid debate by claiming that the matter is already settled.*— Michael Crichton
- *Most institutions demand unqualified faith, but the institution of science makes skepticism a virtue.*- Robert K. Merton

9) What about the scientists' man-made Global Warming crisis consensus?

Notable Quotables on Consensus

- *When a politician says the debate is over, you can be sure of two things: the debate is raging, and he's losing it.*- George Will
- *Nullius addictus iurare in verba magistri. (Be skeptical of the experts).*- Horace
- *Whenever you hear the consensus of scientists agrees on something or other, reach for your wallet, because you're being had*.- Michael Crichton
- *The fact that an opinion has been widely held is no evidence whatever that it is not utterly absurd; indeed, in view of the silliness of the majority of mankind, a widespread belief is more likely to be foolish than sensible.*- Bertrand Russell
- *A nation that is afraid to let its people judge the truth and falsehood in an open market is a nation that is afraid of its people.*- John F. Kennedy
- *Genius abhors consensus because when consensus is reached, thinking stops.*- Albert Einstein
- *A consensus means that everyone agrees to say collectively what no one believes individually.*- Abba Eban, Israeli diplomat (1915 – 2002)
- *Audiatur et altera pars. (Let both sides be fairly heard.)* - Fundamental principle of Western law

Muddling the Judiciary's Understanding of Science - CO_2 Coalition

- **The letter can be read here.**

9) What about the scientists' man-made Global Warming crisis consensus? The Scientific Method is not based on Consensus

Scientists' Critique of Biased Material for the Judiciary

- As scientists, we completely agree with the Supreme Court in the Daubert case that scientific knowledge must be derived by the scientific method:
- *"[I]n order to qualify as 'scientific knowledge,' an inference or assertion must be derived by the scientific method. *** 'Scientific methodology today is based on generating hypotheses and testing them …this methodology is what distinguishes science from other fields of human inquiry.'" Daubert v. Merrell Dow Pharmaceuticals, Inc., 509 U.S. 579, 590, 593 (1993).*
- Prof. Richard Feynman, a Nobel Laureate in Physics, succinctly explained the scientific method as follows:"*[W]e compare the result of [a theory's] computation to nature, … compare it directly with observations, to see if it works. If it disagrees with experiment, it is wrong. In that simple statement is the key to science." The Character of Physical Law (1965), p. 150.*

https://co2coalition.org/publications/open-letter-to-federal-judicial-center-chair-john-roberts/

Profs. Lindzen's and Happer's paper Physics Demonstrates That Increasing Greenhouse Gases Cannot Cause Dangerous Warming, Extreme Weather or Any Harm Physics Demonstrates That Increasing Greenhouse Gases Cannot …

Prof. Koonin's book Unsettled (2d. ed. 2024).

Career physicists with decades of experience in atmospheric dynamics, radiative transfer, and modelling complex systems like climate and with more than 600 peer-reviewed publications among us

Richard Lindzen, Ph. D. Professor of Earth, Atmospheric, and Planetary Sciences, Emeritus Professor of Physics Massachusetts Institute of Technology

William Happer, Ph. D. Emeritus Professor of Physics, Princeton University

Steven Koonin, Ph. D. Edward Teller Senior Fellow Hoover Institution, Stanford University

9) What about the scientists' man-made Global Warming crisis consensus? The Scientific Method is not based on Consensus

Scientists' Critique of Biased Material for the Judiciary

- Scientific progress has been grounded in the ability to make risky predictions that could easily be proven wrong—and then to test them against experiment or observation. This empirical cycle is what enabled humanity to uncover the laws of motion, electromagnetism, thermodynamics, quantum mechanics, genetics, and countless other pillars of knowledge.
- "In matters of science, the authority of thousands is not worth the humble reasoning of one single person." Consensus is a sociological phenomenon, not the scientific method.
- Scientific progress—from Galileo to Curie to Einstein—has often required breaking with consensus, and history offers many examples in which a prevailing consensus was later overturned, including Lysenkoism in the Soviet Union, the long resistance to plate tectonics, and the brief mid-20th-century consensus about imminent global cooling.

https://co2coalition.org/publications/open-letter-to-federal-judicial-center-chair-john-roberts/

Profs. Lindzen's and Happer's paper Physics Demonstrates That Increasing Greenhouse Gases Cannot Cause Dangerous Warming, Extreme Weather or Any Harm Physics Demonstrates That Increasing Greenhouse Gases Cannot …

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Steven Koonin, Ph. D. Edward Teller Senior Fellow Hoover Institution, Stanford University

9) What about the scientists' man-made Global Warming crisis consensus? Consensus on what? Consensus depends on the wording of the question

- Climate alarmists claim a 97% consensus amongst scientists, but on what? This study found that 66% of the scientists questioned had no opinion and, of the remaining 97%, 33% agreed mankind had increased CO_2 levels and that CO_2 impacts temperature, but to what degree?
- Scientists agree that the Earth is warming and that humans are contributing to CO_2 increases, which impacts warming; they don't agree as to how significant this added CO_2 is on global warming or if it is causing a global warming crisis.
- According to Kenneth Richard, scientists are increasingly tuning out the claims that the Earth's temperatures are predominantly shaped by anthropogenic CO_2 emissions. However, solar scientists are showing robust correlations between solar variability and climate change.
- The 2008 Global Warming Petition Project, signed by 31,487 scientists, including 9,029 PhDs, states: "There is no convincing scientific evidence that human release of carbon dioxide, methane, or other greenhouse gases is causing or will, in the foreseeable future, cause catastrophic heating of the Earth's atmosphere and disruption of the Earth's climate. Moreover, there is substantial scientific evidence that increases in atmospheric carbon dioxide produce many beneficial effects upon the natural plant and animal environments of the Earth".
- Brilliant scientists and explorers have been opposed to the consensus of the time: Galileo (astronomy), Mendel (genetics), Darwin (evolution), Einstein (physics) and Columbus (explorer).

- Reference book: The Inconvenient Truth Page 27, 28 https://youtu.be/P_nH1BAfDhs?si=OVxNpHIBiUNkX20t
- https://youtu.be/BiKfWdXXfIs Freeman Dyson https://www.youtube.com/shorts/PZPZioH4wBk
- Climate I: Is The Debate Over? –YouTube Richard Lindzen MIT USA and Hadi Dawlatabadi UBC Canada
- https://www.econlib.org/archives/2014/03/16_not_97_agree.html

9) What about the scientists' man-made Global Warming crisis consensus?

Climate disaster dissenters' different views are being muffled by top Institutions

Dissenters state that the public and government officials are getting a one-sided, apocalyptic account that stokes fear, politicizes science, misuses climate modeling, and shuts down debate. **They are systematically sidelined and diminished by government funding agencies, grant-makers, academic journals, and much of the media. These scientists acknowledge that the climate is warming, but they also ascribe as much, if not more, influence to natural cycles and climate variability than to human activities, such as burning fossil fuel. These dissenters claim:**

- **There is no climate crisis or existential threat as expressed in catastrophic predictions by activists in the media and academia.**
- **Global temperatures are increasing incrementally, and have been for centuries, but the degree of human influence is uncertain or negligible.**
- **Rapidly replacing fossil fuels with renewables and electricity by mid-century would be economically risky and may have a negligible effect on global warming**.
- **The global political push to kill the fossil fuel industry to get to "net zero" and "carbon neutrality" by 2050 will erase millions of jobs and raise energy costs, leading to a prolonged economic depression and political instability**.
- **There is no evidence that a gradually warming planet is affecting the frequency or intensity of hurricanes, storms, droughts, rainfall, or other weather events**.
- **Extreme weather events, such as wildfires and flooding, are not claiming more human lives than previously.** "People are safer from climate-related disasters than ever before,"
- **Climate science has been hijacked and politicized by activists, creating a culture of self-censorship**

9) What about the scientists' man-made Global Warming crisis consensus?

Climate disaster dissenters' different views are being muffled by top Institutions

- **Slogans such as "follow the science"&"scientific consensus" are misleading and disingenuous.**
- **The warming of the planet is a complicated phenomenon that will cause some disruptions but will also bring benefits, particularly in agricultural yields and increased vegetation.**

Reference: **Here's The Climate Dissent You're Not Hearing About Because It's Muffled By Society's Top Institutions**
SATURDAY, SEP 16, 2023 - 09:20 PM *Authored by John Murawski via RealClear Wire*,

(2233) The Lowdown On Climate "Science" – YouTube

17 Questions to Challenge the Climate Change Crisis - Activist Post

https://www.telegraph.co.uk/news/2023/08/04/net-zeros-dam-has-burst-but-bbc-is-still-papering-over/

https://youtu.be/KhCKYvETYDc?si=GWclipwVGIYTreDv

Will Happer: CO_2, the Gas of Life | Tom Nelson Pod #158

Climate_hysteria_and_Climate_reality__a_comparison_of_interglacials.pdf

https://thehighwire.com/editorial/new-peer-reviewed-study-co2-has-zero-impact-on-climate-change/

https://www.instagram.com/reel/DH6NkhCKHJo/?igsh=MXBsdTJ4cW53MDMoYw==

https://www.climateskeptic.org/p/the-cancellation-of-professor-norman

Climate Inquisition Silenced a Generation of Scientists - CO_2 Coalition

The scientists attacked had written a report published in July, 2025 by the U.S. Department of Energy (DOE), "**A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate**."

Media against scientists who refute CO_2 Climate Crisis Read article **here**.

Who Actually Wrote the Climate Manual for Federal Judges_Roger Pielke Jr.

https://wattsupwiththat.com/2026/04/20/wrong-the-independent-the-atlantic-current-isnt-on-the-brink-of-collapse/

How Corrupted Science Poisoned Society – The Daily Sceptic

9) What about the scientists' man-made Global Warming crisis consensus?

The restoration of reason regarding Net Zero, an article by Tilak Doshi

The Technocrats Are Falling as Their Ideology Fails

The cracking of the Net Zero consensus is a moment of hope.

Over the past two decades, we have witnessed an ideological capture of science cloaked in the virtuous robes of DEI, 'climate justice'. In the realms of climate policy, institutions that were once bastions of rigorous inquiry, including the United Nations, the European Union, the US National Institutes of Health (NIH) and peer-reviewed journals, moved to a 'Consensus' trumps data position where alarmism supplants scepticism and dissenting voices are not imprisoned but 'cancelled', smeared as 'climate deniers'.

In climate science, the alarmist cult of anthropogenic global warming is epitomised by Michael Mann and his concocted 'hockey stick' graph, which has been debunked but is still being used.

The human toll? Skyrocketing energy prices that impoverish the working classes while denying fossil fuels to the energy-starved in the developing world. Billions worldwide have borne the brunt, from African villages 'leapfrogging' onto unreliable green energy at the behest of Western moralisers.

https://tilakdoshi.substack.com/p/the-technocrats-are-falling-as-their

https://youtu.be/oModxLDUcoc?si=gq9EgruSRWhBl_hq Net Zero is Dying Jacob Rees- Mogg

9) What about the scientists' man-made Global Warming crisis consensus?

The restoration of reason regarding Net Zero, an article by Tilak Doshi

The UK's "Net Zero" pursuit saddles households with electricity prices four times those in the US, driving de-industrialisation and £220 billion in excess consumer costs since 2006. Green levies added $17 billion to UK bills in 2023-24 and are projected to hit $20 billion by 2029-30

Developing nations fare worse: the illusion of African countries 'leapfrogging' into renewables denies them coal and gas for power plants, condemning billions of people to energy poverty.

Meanwhile, the larger developing countries such as China and India, which are not at the mercy of climate-related financial vetoes imposed by the World Bank and the IMF, build coal-fired plants unabated at a sharp pace.

Bureaucracies are resilient; vested interests die hard. The climate-industrial complex — banks, consultancies, NGOs and subsidy-hungry, rent-seeking corporations in the renewables space will not surrender easily.

Yet, a counter-revolution is emerging as evidenced in the USA by Donald Trump's Executive Order issued in May 2025, 'Restoring Gold Standard Science in America, ' and mandating transparency, reproducibility and the open exchange of ideas in federal science. Grounded in physics, emerging data shows the harms of Net Zero dogma.

https://tilakdoshi.substack.com/p/the-technocrats-are-falling-as-their

9) What about the scientists' man-made Global Warming crisis consensus?

The restoration of reason regarding Net Zero, an article by Tilak Doshi

For the first time in decades, the presumption of infallibility that shielded technocrats is cracking. The dogma of 'settled science' is being replaced by renewed curiosity, even humility.

indispensable to modern life.
In energy, this means acknowledging physical realities: that wind and solar cannot replace dense and reliable fossil fuels without catastrophic costs; that hydrocarbons provide.
Despite censorship, truth eventually emerges. The physics of energy and the economics of growth are realities that cannot be legislated away. As evidence accumulates on the failures of Net Zero policies, the edifice of progressive technocracy is crumbling under its own contradictions.
The victory of populist coalitions over the globalist establishment are occurring worldwide, as evidenced by:
i) Trump's election in the USA,
ii) The resurgence of parties such as the Alternative for Germany (AfD) in Germany, Reform UK and the National Rally in France
iii) The recent election victory of the conservative-populist Andrej Babis in the Czech Republic
iv) The shock win in Japan's LDP party elections by "conservative" leader Sanae Takaichi ,
v) The Rightward shift in politics in the continued opposition of Hungary's Viktor Orbán and Slovakia's Robert Fico against the globalist policies pushed by Brussels' sprawling EU bureaucracy.

https://tilakdoshi.substack.com/p/the-technocrats-are-falling-as-their

9) What about the scientists' man-made Global Warming crisis consensus?

Reports discredit IPCC AR6 report of claims of a man-made climate crisis

- Crok and May document biases and errors in almost every chapter of the latest IPCC AR6 report with blatant data cherry-picking. Even ardent IPCC supporters should feel embarrassed.
- The IPCC seems obsessed with a few themes: i) the current warming is unique and unprecedented, ii) climate change is all bad and iii) it's caused by CO_2. This attitude leads to tunnel vision.
- This doesn't mean that CO_2 does not have any effect. Of course, it has, but the evidence that CO_2 and other greenhouse gases are causing dangerous climate change is, even after 30 years and 6 major IPCC reports, shown to be rather thin.
- In summary: i) Warming in the Holocene likely peaked during the Holocene Thermal Maximum, when century-scale global temperatures were probably similar to those observed in the last decade. After the Thermal Maximum, a slow cooling began, which follows the Milankovitch cycles. The cooling climaxed in the Little Ice Age, which was probably the coldest period of the Holocene. Greenhouse gases have likely contributed to the subsequent moderate modern warming since 1850.. Ii) It is impossible to state with reasonable accuracy what percentage of this modest warming is due to greenhouse gases. Iii) Sea level started rising in the 19th century and there is no acceleration visible after 1950, the period in which the climate is supposedly dominated by greenhouse gases. Iv) Most types of extreme weather have not become more frequent or more intense. This is especially true for tropical cyclones and floods, events that cause the most damage globally. Disaster losses, if normalized for economic development, show a slight decrease since the 1990s. v) Climate-related deaths show more than a 95% drop since the 1920s, reflecting increasing availability of technologies to prepare for disasters.
- A prosperous humanity is largely prepared for climate change and can easily cope with it.
- *Regarding the Hockey Stick of IPCC 2001 evidence now indicates, in my view, that an IPCC Lead Author working with a small chorus of scientists, misrepresented the temperature record of the past 1000 years by (a) promoting his own result as the best estimate, (b) neglecting studies that contradicted his, and (c) amputating another's result so as to eliminate conflicting data and limit any serious attempt to expose the real uncertainties of these data.* – John Christy

The Frozen Climate Views of the IPCC: An analysis of AR6. Edited by Marcel Crok, Andy May

- John Christy's testimony
- https://principia-scientific.com/46-climate-change-denying-statements-made-by-former-ipcc-scientists/
- How the Club of Rome and the WEF invented Climate Change in order to attack humanity pic.x.com/M27VcBeoEB

9) What about the scientists' man-made Global Warming crisis consensus?

Scientists discredit the IPCC and its claim of a man-made climate crisis

These are the words of the first 16 scientists of 46 who have left the Intergovernmental Panel on Climate Change (IPCC) due to the corruption of science within the organisation.

- Dr Robert Balling: The IPCC notes that "No significant acceleration in the rate of sea level rise during the 20th century has been detected." This did not appear in the IPCC Summary for Policymakers.
- Dr Lucka Bogataj: "Rising levels of airborne carbon dioxide don't cause global temperatures to rise…. temperature changed first and some 700 years later a change in aerial content of carbon dioxide followed."
- Dr John Christy: "Little known to the public is the fact that most of the scientists involved with the IPCC do not agree that global warming is occurring. Its findings have been consistently misrepresented and/or politicized with each succeeding report."
- Dr Rosa Compagnucci: "Humans have only contributed a few tenths of a degree to warming on Earth. Solar activity is a key driver of climate."
- Dr Richard Courtney: "The empirical evidence strongly indicates that the anthropogenic global warming hypothesis is wrong."
- Dr Judith Curry: "I'm not going to just spout off and endorse the IPCC because I don't have confidence in the process."

https://publichealthpolicyjournal.com/what-do-scientists-who-have-left-the-ipcc-intergovernmental-panel-on-climate-change-have-to-say-from-former-member-of-parliament-andrew-bridgens-telegram-channel-today/

How the Club of Rome and the WEF invented Climate Change in order to attack humanity pic.x.com/M27VcBeoEB

https://www.climateskeptic.org/p/the-climate-skeptic-podcast-episode-722?r=1jqxnz&utm_campaign=post;

9) What about the scientists' man-made Global Warming crisis consensus?

Scientists discredit the IPCC and its claim of a man-made climate crisis

- Dr Robert Davis: "Global temperatures have not been changing as state of the art climate models predicted they would. Not a single mention of satellite temperature observations appears in the IPCC Summary for Policymakers."
- Dr Willem de Lange: "In 1996 the IPCC listed me as one of approximately 3000 "scientists" who agreed that there was a discernible human influence on climate. I didn't. There is no evidence to support the hypothesis that runaway catastrophic climate change is due to human activities."
- Dr Chris de Freitas: "Government decision-makers should have heard by now that the basis for the long-standing claim that carbon dioxide is a major driver of global climate is being questioned; along with it the hitherto assumed need for costly measures to restrict carbon dioxide emissions. If they have not heard, it is because of the din of global warming hysteria that relies on the logical fallacy of 'argument from ignorance' and predictions of computer models."
- Dr Oliver Frauenfeld: "Much more progress is necessary regarding our current understanding of climate and our abilities to model it."
- Dr Peter Dietze: "Using a flawed eddy diffusion model, the IPCC has grossly underestimated the future oceanic carbon dioxide uptake."

https://publichealthpolicyjournal.com/what-do-scientists-who-have-left-the-ipcc-intergovernmental-panel-on-climate-change-have-to-say-from-former-member-of-parliament-andrew-bridgens-telegram-channel-today/

https://x.com/anika_climate/status/2030280287674851564

https://sealevel.info/Unsettled-Climate_Changes_Real_Story-NewsMax_and_the_CO2_Coalition-2026-with_ads.mp4

9) What about the scientists' man-made Global Warming crisis consensus?

Scientists discredit the IPCC and its claim of a man-made climate crisis

- Dr John Everett: "It is time for a reality check. The oceans and coastal zones have been far warmer and colder than is projected in the present scenarios of climate change. I have reviewed the IPCC and more recent scientific literature and believe that there is not a problem with increased acidification, even up to the unlikely levels in the most-used IPCC scenarios."
- Dr Eigil Friis-Christensen: "The IPCC refused to consider the sun's effect on the Earth's climate as a topic worthy of investigation. The IPCC conceived its task only as investigating potential human causes of climate change."
- Dr Lee Gerhard: "I never fully accepted or denied the anthropogenic global warming concept until the furore started after NASA's James Hansen's wild claims in the late 1980s. I went to the [scientific] literature to study the basis of the claim, starting with first principles. My studies then led me to believe that the claims were false."
- Dr Indur Goklany: "Climate change is unlikely to be the world's most important environmental problem of the 21st century. There is no signal in the mortality data to indicate increases in the overall frequencies or severities of extreme weather events, despite large increases in the population at risk."
- Dr Vincent Gray: "The [IPCC] climate change statement is an orchestrated litany of lies."

https://publichealthpolicyjournal.com/what-do-scientists-who-have-left-the-ipcc-intergovernmental-panel-on-climate-change-have-to-say-from-former-member-of-parliament-andrew-bridgens-telegram-channel-today/

IPCC Admits Apocalyptic Climate Scenarios Are "Implausible"

Follow the Science, Except When the IPCC's Own Climate Data Doesn't Cooperate – PJ Media

9) What about the scientists' man-made Global Warming crisis consensus?

Scientists discredit the IPCC and its claim of a man-made climate crisis Vijay Jayaraj

Climate Alarmism's Reset And The Policy Reckoning It Demands

- The WCRP coordinates Earth System Model simulations driven by alternative trajectories of greenhouse gas emissions, air pollution, and land use changes. These simulations provide projections used by scientists, climate-impact researchers, and international entities like the United Nations Intergovernmental Panel on Climate Change (IPCC) to analyze risks of climate change. The projections feed into IPCC assessment reports, which are treated as the gold standard of climate analysis and shape nearly all academic research on the subject and eventually energy policy.
- For years, the most alarming climate narratives leaned heavily on the RCP8.5 scenario and its successors, SSP5-8.5 and SSP3-7.0. Their fearmongering projections of extraordinary warming assume a high sensitivity of Earth's climate system to greenhouse gases. Embracing these predictions of widespread catastrophe, researchers, policymakers, financial overseers, and others foisted onto the public all manner of burdens.
- But now, in the latest analysis of greenhouse gases' effects on climate, the WCRP admits that upper-end projections are no longer considered "plausible.".
- Scientist Roger Pielke Jr. examined what this means by comparing the new scenarios against previous benchmarks, saying: "The new framework has *eliminated* the most extreme scenarios that have dominated climate research over much of the past several decades … This is an absolutely huge development in climate science which will have lasting impacts across research and policy."

https://co2coalition.org/2026/06/10/climate-alarmisms-reset-and-the-policy-reckoning-it-demands/

9) What about the scientists' man-made Global Warming crisis consensus?

Scientists discredit the IPCC and its claim of a man-made climate crisis Vijay Jayaraj

Climate Alarmism's Reset And The Policy Reckoning It Demands

- The latest projections of warming are significantly lower. Forecasts that drove many of the scariest headlines are no longer considered realistic enough to guide modeling for the next IPCC report. The "worst case" that powered a generation of alarmist narratives has been quietly retired by the community that once promoted it.
- This is not an academic housekeeping exercise. The discarded scenarios are embedded in the machinery that shapes energy bills, job prospects, and the economic development of nations.
- For many developing countries, these documents—like IPCC's assessment reports—are central to decisions on coal plants, pipelines, and other industrial development. When the underlying scenarios become "officially implausible," the credibility of documents vanishes.
- This moment offers developing nations a rare opportunity to reclaim energy sovereignty. They can accelerate fossil-fuel development where it makes economic sense, integrate newer technologies where they prove competitive, and reject any framework that treats affordable energy as a luxury.
- Climate deniers will be those who reject these scenario updates that upend their crisis evangelism. Their forecasts of doom are false and always have been.

https://co2coalition.org/2026/06/10/climate-alarmisms-reset-and-the-policy-reckoning-it-demands/

9) What about the scientists' man-made Global Warming crisis consensus?

Many prominent Physicists discredit the claim of a man-made climate crisis

- Physicists, along with chemists, investigate the science surrounding climate, which at its core focuses on heat exchange and the behaviour of atmospheric gases.
- **Dr. John Clauser** is one of the world's leading authorities on quantum mechanics, the study of matter and light at a sub-atomic and atomic level. In 2010, he was awarded the Wolf Prize in Physics. He states that the climate pseudoscience has become a scapegoat for a wide variety of other unrelated ills. It has been promoted and extended by similarly misguided business marketing agents, politicians, journalists, government agencies and environmentalists. "In my opinion, there is no real climate crisis. There is, however, a very real problem with providing a decent standard of living to the world's largest population and an associated energy crisis. The latter is being unnecessarily exacerbated by what, in my opinion, is incorrect climate science,"
- **Dr. William Happer** is a leading proponent of the 'saturation' hypothesis of warming gases such as CO_2, observing that at certain levels such gases become saturated in small bands of the infrared spectrum. As a consequence, their warming ability diminishes on a logarithmic scale, an observation that helps explain the 600 million-year geological record, where CO_2 measurements have been up to 20 times higher.

https://dailysceptic.org/2023/07/14/nobel-physics-laureate-2022-slams-climate-emergency-narrative-as-dangerous-corruption-of-science/
https://electroverse.info/nobel-prize-winner-slams-climate-alarm-thanksgiving-arctic-blast-sun-hush/
https://www.dropbox.com/scl/fi/3k7g1bmrwr1iwlgsa1dg9/MIT-Scientists-Say-EPA-Climate-Regulations-Based-on-Hoax.pdf?rlkey=fl7e8zhojbs66vd3ava9wl4eg&dl=0;

Conventional Climate Science Threatens Civilization Vijay Jayaraj here.

Canary in a Climate World: Climate Realism vs. the Net Zero Myth Patrick Moore, Will Happer, John Clauser, Gregory Wrightstone, Howard Hayden, Dick Lindzen , Vijay Jayaraj and others

9) What about the scientists' man-made Global Warming crisis consensus?

Many women are also speaking out to discredit the claim of a man-made climate crisis

Women are speaking out against what they see as a frightening and socially disruptive agenda.

Sallie Baliunas In 2003, Sallie Baliunas and Willy Soon, published a critique of Michael Mann's infamous hockey stick graph. In the documentary *Climate: The Movie* Soon and Baliunas investigated the role of natural climate change and the role of the Sun.

Judith Curry was one of five co-authors who published a groundbreaking climate report commissioned by the US Department of Energy.

Jennifer Marohasy has published various peer-reviewed articles and conducts research into the state of the Great Barrier Reef.

Joanne Nova is primarily a blogger with an outspoken skeptical opinion on climate policy.

Linnea Lueken has been working at The Heartland Institute for several years. She writes, gives lectures, and regularly appears on the Heartland podcast.

Lucy Biggers wrote an extensive article in The Free Press and has also given several interviews, including a very interesting interview discussing the psychology of the climate movement.

Danielle Carl lectured on Climate change: thinking for yourself and asking questions was not appreciated

Desiree Fixler worked for years on Environmental Social Governance (ESG), attended the World Economic Forum in Davos and became head of ESG at Deutsche Bank. There, she discovered that their ESG policy was a scam. She raised the issue internally but was subsequently fired. Recently, she has given several extensive interviews (check out this one) and has been very active on 𝕏 and LinkedIn. In a post op 𝕏 on February 25, 2026, she writes: "Net Zero is dead – but the devastation it caused is all around us. Not only was it likely the biggest financial scam in modern history, it radically reshaped geopolitics."

Women are speaking out against the climate agenda

https://x.com/i/status/2033167331010969885 "Calling Carbon Dioxide a pollutant is a complete distortion of the truth…pollutants are substances that are toxic to human health"

9) What about the scientists' man-made Global Warming crisis consensus?

Many prominent Physicists discredit the claim of a man-made climate crisis

- **Professor Antonino Zichichi** , is the holder of Italy's the Knight Grand Cross of the Order of Merit of the Italian Republic, awarded for a lifetime of distinguished scientific work. In 2019, he led a group of 48 Italian science professors in stating that human responsibility for climate change is "unjustifiably exaggerated and catastrophic predictions are not realistic" and "natural variation explains a substantial part of global warming observed since 1850".
- Recently, four Italian scientists, including three physics professors, undertook a major review of historical climate trends and concluded that declaring a 'climate emergency' is not supported by the data. Over many meteorological categories, there was "no clear positive trend of extreme events".
- Last September, the leading nuclear physicist **Dr. Wallace Manheimer** warned that Net Zero would end modern civilisation. He observed that the new wind and solar infrastructure would fail, cost trillions, trash large portions of the environment, and be entirely unnecessary. The 'Climate Industrial Complex' had "somehow" managed to convince many that CO_2 in the atmosphere, a gas necessary for life on Earth that is exhaled in every breath, "is an environmental poison".
- NOAA agrees to restore 'scientific integrity' in its influential $1 billion climate disaster. **Dr. Roger Pielke Jr** released a preprint of his study, on *Scientific integrity*
- *Dr John Robson shows many scientists are changing their views* Finally A Real Tipping Point

Numbers Behind The Narrative: What Climate Science Actually Says
FRIDAY, MAY 31, 2024 - 08:10 PM *Authored by Kevin Stocklin via The Epoch Times,*
ANTHONY SADAR: Attacks on climate change skeptics a … Washington Times
https://x.com/i/status/2023722072510271526 There is no proof that CO_2 is responsible for global warming Dr Patrick Moore

9) What about the scientists' man-made Global Warming crisis consensus?

Dr. Steven Koonin former Undersecretary for Science US Dept. of Energy

Koonin wrote a 2000-word essay, "Climate Science Is Not Settled," that was published in an issue of *The Wall Street Journal*.[26][27] The main points of the article were that:

- **The limits of climate measurement data make it hard to untangle the planet's response to human influences from natural changes that are poorly understood.**
- **The results of various climate models disagree with or contradict each other.**
- **Press releases, summaries, headlines, and news stories often don't accurately reflect the consensus among scientists.**
- **"It is true that the globe is warming (and has since the last ice age), and that humans are exerting a warming influence upon it. But beyond that, I do not think 'The Science' says what you think it says.**
- **Climate science says clearly that heat waves in the US are now no more common than they were in 1900, and that the warmest temperatures in the US have not risen in the past fifty years.**
- **Humans have had no detectable impact on hurricanes over the past century.**
- **Greenland's ice sheet isn't shrinking any more rapidly than it was 80 years ago.**
- **The public gets their climate information almost exclusively from the media; few people actually read the assessment summaries, let alone the reports.**
- **The science is insufficient to make useful projections about how the climate will change over the coming decade, much less what effect our actions will have."**

References: Unsettled pages 1, 2, 4

Dr. R Lindzen https://wattsupwiththat.com/2022/12/04/mit-climate-scientist-dr-richard-lindzen-rejects-climate-change-as-a-quasi-religious-movement-predicated-on-an-absurd-scientific-narrative/

9) What about the scientists' man-made Global Warming crisis consensus?

Dr. Steven Koonin former Undersecretary for Science US Dept. of Energy

Conformance pressures are real in the media, governments, corporations, NGOs, schools and the public

Possible factors: A Self-Reinforcing Alignment of Perspectives and Interests.

1) **The Media**: As the age of the internet advances, headlines become more provocative to encourage clicks. The general lack of knowledge of what the science actually says, the fear drama of extreme weather events and their heart-rendering impact on people and pressure within the industry all work against a balanced coverage in popular media
2) **Politicians**: Politicians win elections by arousing passion and commitment from voters – by motivating and persuading. The threat of climate catastrophe resonates with everyone. Politicians declare "the science" is settled and label anyone who questions that "a denier"
3) **Scientific Institutions**: When it comes to climate, institutions frequently seem more concerned with making the science fit the narrative than ensuring the narrative fits the science. Assessment reports often summarize or describe the data in ways that are misleading. Scientific institutions have been willing to persuade rather than inform.
4) **Scientists**: Academic pressure occurs for securing funding through grants plus the matter of promotion and tenure, plus peer pressure.
5) **Activists and NGOs**: Have built organizations based on "climate emergency" that rely on donations to exist, making claims that climate change is one of the most devastating problems that humanity has ever faced.
6) **The Public**: Concerns about climate change are as old as humanity. Public attitudes mostly involve unquestioning acceptance of wisdom handed down from on high and do not have the time or ability to examine the science themselves. Getting information from social media can also be misleading.

Reference: Unsettled Chapter 10 Steven Koonin

9) What about the scientists' man-made Global Warming crisis consensus?

Dr. Steven Koonin/Dr. Jordan Peterson on climate crisis motivating factors

- Political motivation: Quote from H. L. Menkin "The purpose of practical politics is to keep the electorate alarmed by a series of mostly imaginary hobgoblins so that they can be clamoring to be led to safety."
- Media motivation: People are tilted towards attention paid to negative consequences and any given threat could be shown to be personally and socially apocalyptic
- Two immoral consequences of the present "Climate Crisis movement

1) We are denying 6 ½ billion people adequate, reliable and affordable energy;
2) We are depressing the younger generation in a most unreasonable way

- Fortunately, techno-economic realities should eventually cause the system to do the right thing

(405) Unsettled: Climate and Science | Dr. Steven Koonin | EP 323 – YouTube

https://dailysceptic.org/2023/07/14/nobel-physics-laureate-2022-slams-climate-emergency-narrative-as-dangerous-corruption-of-science/

9) What about the scientists' man-made Global Warming crisis consensus?

John Stossel interview with Dr. Judith Curry Aug 9, 2023

- We are told climate change is a crisis, and that there is an "overwhelming scientific consensus."
- "It's a manufactured consensus," climate scientist Judith Curry tells me.
- She says scientists have an incentive to exaggerate risk to pursue "fame and fortune."
- She knows about that because she once spread alarm about climate change.
- The media loved her when she published a study that seemed to show a dramatic increase in hurricane intensity.
- "We found that the percent of Category 4 and 5 hurricanes had doubled," says Curry.
- "This was picked up by the media," and then climate alarmists realized, "Oh, here is the way to do it. Tie extreme weather events to global warming!"
- Curry's "more intense" hurricanes gave them fuel.
- "I was adopted by the environmental advocacy groups and the alarmists and I was treated like a rock star," Curry recounts.
- "Flown all over the place to meet with politicians."

9) What about the scientists' man-made Global Warming crisis consensus?

John Stossel interview with Dr. Judith Curry Aug 9, 2023

- But then some researchers pointed out gaps in her research — years with low levels of hurricanes.
- "Like a good scientist, I investigated," says Curry.
- She realized that the critics were right.
- "Part of it was bad data. Part of it is natural climate variability."
- Curry adds, "This was picked up by the media," and then climate alarmists realized, "Oh, here is the way to do it. Tie extreme weather events to global warming!"ZUMAPRESS.com
- Curry was the unusual researcher who looked at criticism of her work and actually concluded: "They had a point."
- Then the Climategate scandal taught her that other climate researchers weren't so open-minded.
- Alarmist scientists' aggressive attempts to hide data suggesting climate change is *not* a crisis were revealed in leaked emails.
- "Ugly things," says Curry.
- "Avoiding Freedom of Information Act requests. Trying to get journal editors fired."

9) What about the scientists' man-made Global Warming crisis consensus?

John Stossel interview with Dr. Judith Curry Aug 9, 2023

- It made Curry realize that there is a "climate-change industry" set up to reward alarmism.
- "The origins go back to the . . . UN environmental program," says Curry.
- Some United Nations officials were motivated by "anti-capitalism. They hated the oil companies and seized on the climate change issue to move their policies along."
- The UN created the Intergovernmental Panel on Climate Change.
- "The IPCC wasn't supposed to focus on any *benefits* of warming. The IPCC's mandate was to look for *dangerous* human-caused climate change."
- "Then the national funding agencies directed all the funding . . . *assuming* there are dangerous impacts."
- The researchers quickly figured out that the way to get funded was to make alarmist claims about "man-made climate change."
- This is how "manufactured consensus" happens.
- Even if a skeptic did get funding, it's harder to publish because journal editors are alarmists.
- "The editor of the journal Science wrote this political rant," says Curry.

9) What about the scientists' man-made Global Warming crisis consensus?

John Stossel interview with Dr. Judith Curry Aug 9, 2023

- She even said, "The time for debate has ended."
- "What kind of message does that give?" adds Curry.
- Then she answers her own question: "Promote the alarming papers! Don't even send the other ones out for review. If you wanted to advance in your career, like be at a prestigious university and get a big salary, have a big laboratory space, get lots of grant funding, be director of an institute, there was clearly one path to go."
- That's what we've got now: a massive government-funded climate alarmism complex.

By John Stossel August 9, 2023

9) What about the scientists' man-made Global Warming crisis consensus?

Dr. William Happer , Physics Department Princeton University, Dr. Indur Goklany

- Dr. William Happer, professor emeritus in the Department of Physics at Princeton University, coauthored a paper that shows that the greenhouse effect of carbon dioxide is limited to a narrow band of the electromagnetic spectrum and cannot cause dangerous planet heating.
- "Carbon dioxide is completely natural," he says. "Plants need it to grow. We all breathe out about two pounds of it every day. When people say that we need to remove carbon dioxide from the air, I can't imagine what they are thinking because today there is not enough carbon dioxide compared to what plants would prefer. We are living in a time of a carbon dioxide famine in the context of geological history. We need more of it, not less."
- "The demonization of carbon dioxide is absurd. Widely accepted data, such as those from Antarctic ice cores, show that over geologic time, almost never have carbon dioxide levels been as low as today. Over most of Earth's history, levels have been four or five times higher."
- As for the comparative value of energy sources, an analysis by CO2 Coalition member Dr. Indur Goklany finds that coal, oil and natural gas are the most beneficial based on their efficiencies and on the salutary effects of their emissions of carbon dioxide. These fuels have fostered unprecedented prosperity and human health. Their CO2 emissions have contributed to an overall greening of Earth and record crop harvests.
- Interview on Climate Change with Dr William Happer https://fromsmash.com/695VS4Y6zU-ht?e=Z3JhZW1lQHBoaXBwc2FuZGFzc29jaWF0ZXMuY29t
- **New Paper by Lindzen, Happer and van Wijngaarten Shows the …**
- https://financialpost.com/opinion/scientific-method-beats-climate-alarmism
- **The Real Story on Climate Change William Happer Princeton …** William Happer
- **What's the Science Behind EPA's Proposed Rollback of Climate Regulations? | NTD** Wi Happer, G Wrightstone
- Dr. William Happer argues that more carbon dioxide is beneficial for the planetpic.x.com/GYivXovvN7

9) What about the scientists' man-made Global Warming crisis consensus?

Dr. Richard Lindzen , Atmospheric Physicist , served as Chair at Harvard U. and M.I.T

- Dr. Richard Lindzen states that the claim of 97% agreement among climate scientists is misleading. There is 100% agreement that CO2 is a greenhouse gas and adding it to the atmosphere is increasing warming. The question is how much?
- The evidence shows it will increase by a little. There is little or no evidence that the climate is highly sensitive to increasing atmospheric carbon dioxide today.
- Global climate modelers seize upon positive feedback: That is how a small warming will be amplified into a greater warming. This assumption is contrary to Le Chatelier's Principle: ("A change in one of the variables that describes a system at equilibrium produces a shift in the position of the equilibrium that counteracts the effect of this change." Although it was first applied to chemical solutions, it can also be applied to systems.)
- Climate is controlled by two regions: the tropics (30 S to 30 N) and the extratropics. The rotation of the Earth, the Coriolis effect, and other fluid dynamics result in great differences in the effects of changing greenhouse gases and other causes of climate change. The tropics stay relatively constant, and in the extratropics, changes are significant. Within the tropics, the greenhouse effect is significant but relatively constant. But what occurs between the tropics and the extratropics has little to do with the greenhouse effect. Temperature differences cause dramatic changes in weather; prevailing winds change with latitude. Claiming that increasing CO2 will cause a significant difference is false.

170) Climate Science: What Does it Say? | Dr. Richard Lindzen | EP 320 – YouTube Dr. Lindzen and Jordan Peterson interview

https://www.youtube.com/live/Ydl_47G8nzk?si=ZYBjf2dZEtNPV4K6 "Panel: Climate Science: the use and abuse of consensus"

https://youtu.be/spKTb3wMmJM?si=N195b4ezUGQ3u5Ni Dr Richard Lindzen on IPCC

MIT Professor of Meteorology confirming there is very little evidence of man-made climate change pic.x.com/cooGZonoM3

9) What about the scientists' man-made Global Warming crisis consensus?

Dr. Judith Curry , Professor Emerita Earth and Atmospheric Sciences Georgia Institute of Technology and President of Climate Forecast Applications Network

Main points from her book Climate Uncertainty and Risk: Rethinking Our Response:

- **Underappreciated uncertainty in climate science:** Climate models have consistently overestimated warming, and there's significant uncertainty surrounding the sensitivity of the climate system to greenhouse gas emissions. This uncertainty makes it difficult to predict the extent and impacts of future climate change.
- **Rethinking climate risk:** Curry argues for a broader perspective on climate risk that considers both the potential negative impacts of climate change and the potential benefits of a warmer climate. It emphasizes the importance of adaptation and resilience in managing climate risk.
- **Challenging the dominant paradigm:** Curry critiques the prevailing view that all climate change is dangerous and that drastic measures to reduce emissions are necessary. She argues for a more nuanced approach that considers the uncertainties and complexities of the climate system.
- **New framework for decision-making:** Curry proposes a decision-making framework that focuses on managing uncertainty and risk, rather than trying to eliminate it. This framework emphasizes the importance of flexibility, adaptability, and learning as we navigate the uncertain future of climate change.

Book: Climate Uncertainty and Risk Dr Judith Curry.

9) What about the scientists' man-made Global Warming crisis consensus?

Meteorologist Dr. Ole Humlum finds no evidence of a planetary crisis

Dr. Ole Humlum used meteorological and climatological data to objectively assess the state of the Earth's climate and found no evidence of a climate crisis:

1. *Observed data do not support the notion of a climate crisis,but reveal many and partly recurrent natural variations.*
2. *Ocean surface temperature controls the atmospheric temperature.*

1. *Atmospheric temperatures: Possible global increase of up to 1.5°C by 2100, and likely less. Antarctic temperatures remain stable.*
2. *Ocean temperatures: Much still to be learned. Oceans are definitely not "boiling."*
3. *Sea Level: 15-20 cm further global rise by 2100? [6 to 8 inches]*
4. *Sea Ice: Much still to be learned. Arctic sea ice is not disappearing.*
5. *Snow: Snow cover is quasi-stable, and snow is not disappearing.*
6. *Wind and Storms: Recurrent (periodic?) variations. No trend in hurricanes.*
7. *Precipitation: Recurrent (periodic?) variations superimposed on upward trend since 1900.*
8. *Cloud Cover: Cloud cover has declined since about 1980. This development is probably contributing to observed atmospheric and ocean warming.*
9. *CO2, although being very important for life is not overly important to understand meteorology and climate.*

http://www.sepp.org/science_papers/...Video see ICSF The State of the Climate Based on Real Observation Ole. Humlum

9) What about the scientists' man-made Global Warming crisis consensus?

The stated scientific crisis consensus is false; the CO_2 Coalition of scientists disagree

The CO_2 Coalition includes scientists and researchers from across the globe devoted to educating the public and policymakers about the *benefits* of CO_2. Not only is the naturally occurring substance not a pollutant, but it's in fact the great elixir of life on Earth.

The coalition has a long and copious list of "facts and data" highlighting the benefits of CO_2 that do not fit in with the narrative of centralized planners in Washington.

The regulatory attack on CO_2 is essentially an attack on humanity itself. Dr. William Happer, a retired Princeton University physicist and founder of the CO_2 Coalition, explains why.

"Carbon dioxide is at the basis of life on Earth," Happer said in an interview with Freedom Research. "We live because plants are able to chemically transform carbon dioxide and water into sugar and a byproduct is the oxygen that we breathe, and so we should all be very grateful that we have carbon dioxide."

"Life would die without carbon dioxide," he explained.

Happer and other members of the CO_2 Coalition view the recent warming trend as a natural response to the planet's emergence from the Little Ice Age beginning in the 1800s. Overturning the Endangerment Finding is a matter of sound science.

- https://dailycaller.com/2025/04/27/opinion-trump-makes-america-independent-from-the-climate-grift-kevin-mooney/
- Interview with Matt Ridley UK Science https://www.youtube.com/watch?v=LFPj8tNVoLQ
- CO_2 Coalition interviews Feed | CO_2 Coalition Discussion Group

9) What about the scientists' man-made Global Warming crisis consensus?

CO2 Coalition Report challenges Net Zero with science

- Applying the scientific method indicates **there is no risk that fossil fuels and CO2 are causing, or will cause catastrophic global warming, There is, however, a real risk that eliminating fossil fuels and CO2 emissions will cause massive starvation**
- Their report also states that "in our scientific opinion, any government or other analysis advocating 'Net Zero' regulation or other policy is scientifically invalid and flawed if it:

- Omits unfavorable data that contradicts conclusions on extreme weather events such as heatwaves, wildfires, hurricanes, tornadoes, fires and droughts.
- Relies on models that do not work and should never be used in science.
- Relies on IPCC (the Intergovernmental Panel on Climate Control), which are Government opinions, not science.
- Omits the extraordinary social benefits of CO2 and fossil fuels.
- Omits the disastrous consequences of reducing fossil fuels and CO2 to net zero.
- Reject the science that demonstrates that there is no risk of catastrophic global warming caused by fossil fuels and CO2. **Challenging Net Zero with Science - CO2 Coalition**
  The 55-page paper **WWW.CO2COALITION.ORG**

Home - The Global Warming Policy Foundation

9) What about the scientists' man-made Global Warming crisis consensus?

2.000+ scientists' World Climate Declaration: THERE IS NO CLIMATE EMERGENCY

There is no climate emergency

- A global network of over 2000 scientists and professionals has prepared this urgent message. Climate science should be less political, while climate policies should be more scientific. Scientists should openly address uncertainties and exaggerations in their predictions of global warming, while politicians should dispassionately count the real costs as well as the imagined benefits of their policy measures.

Natural as well as anthropogenic factors cause warming

- The geological archive reveals that Earth's climate has varied as long as the planet has existed, with natural cold and warm phases. The Little Ice Age ended as recently as 1850. Therefore, it is no surprise that we are now experiencing a period of warming.

Warming is far slower than predicted

- The world has warmed significantly less than predicted by IPCC on the basis of modeled anthropogenic forcing. The gap between the real world and the modeled world tells us that we are far from understanding climate change.

Reference Clintel Foundation *There is no climate emergency*

9) What about the scientists' man-made Global Warming crisis consensus?

2,000+ scientists' World Climate Declaration: THERE IS NO CLIMATE EMMERGENCY

Climate policy relies on inadequate models

- Climate models have many shortcomings and are not remotely plausible as global policy tools. They blow up the effect of greenhouse gases such as CO_2. In addition, they ignore the fact that enriching the atmosphere with CO_2 is beneficial.

CO_2 is plant food, the basis of all life on Earth

- CO_2 is not a pollutant. It is essential to all life on Earth. Photosynthesis is a blessing. More CO_2 is beneficial for nature, greening the Earth: additional CO_2 in the air has promoted growth in global plant biomass. It is also good for agriculture, increasing the yields of crops worldwide.

Global warming has not increased natural disasters

- There is no statistical evidence that global warming is intensifying hurricanes, floods, droughts and such natural disasters, or making them more frequent. However, there is ample evidence that CO2 mitigation measures are as damaging as they are costly.

Climate policy must respect scientific and economic realities

9) What about the scientists' man-made Global Warming crisis consensus?

2,000+ scientists' World Climate Declaration: THERE IS NO CLIMATE EMMERGENCY

- There is no climate emergency. Therefore, there is no cause for panic and alarm. We strongly oppose the harmful and unrealistic net-zero CO_2 policy proposed for 2050. If better approaches emerge, and they certainly will, we have ample time to reflect and re-adapt. The aim of global policy should be 'prosperity for all' by providing reliable and affordable energy at all times. In a prosperous society, men and women are well educated, birth rates are low and people care about their environment.

Epilogue

- The World Climate Declaration (WCD) has brought a large variety of competent scientists together from all over the world*. The considerable knowledge and experience of this group is indispensable in reaching a balanced, dispassionate and competent view of climate change.
- From now onward, the group is going to function as "Global Climate Intelligence Group". The CLINTEL Group will give solicited and unsolicited advice on climate change and energy transition to governments and companies worldwide.
- * *It is not the number of experts but the quality of arguments that counts*

https://clintel.org/wp-content/uploads/2023/11/WCD-version-111523.pdf

9) What about the scientists' man-made Global Warming crisis consensus?

2.000+ scientists' World Climate Declaration: THERE IS NO CLIMATE EMMERGENCY

World Climate Declaration AMBASSADORS

NOBEL LAUREATE PROFESSOR IVAR GIAEVER NORWAY/USA
PROFESSOR GUUS BERKHOUT / THE NETHERLANDS
DR. CORNELIS LE PAIR / THE NETHERLANDS
PROFESSOR REYNALD DU BERGER / FRENCH SPEAKING CANADA
BARRY BRILL / NEW ZEALAND
VIV FORBES / AUSTRALIA
PROFESSOR JEFFREY FOSS † / ENGLISH SPEAKING CANADA
JENS MORTON HANSEN / DENMARK
PROFESSOR LÁSZIÓ SZARKA / HUNGARY
PROFESSOR SEOK SOON PARK / SOUTH KOREA
PROFESSOR JAN-ERIK SOLHEIM / NORWAY
STAVROS ALEXANDRIS / GREECE
FERDINAND MEEUS / DUTCH SPEAKING BELGIUM
PROFESSOR RICHARD LINDZEN / USA
HENRI A. MASSON / FRENCH SPEAKING BELGIUM
PROFESSOR INGEMAR NORDIN / SWEDEN
JIM O'BRIEN / REPUBLIC OF IRELAND

Reference Clintel foundation *There is no climate emergency*

9) What about the scientists' man-made Global Warming crisis consensus?

2,000+ scientists' World Climate Declaration: THERE IS NO CLIMATE EMMERGENCY

World Climate Declaration AMBASSADORS continued

PROFESSOR IAN PLIMER / AUSTRALIA
DOUGLAS POLLOCK / CHILE
DR. BLANCA PARGA LANDA / SPAIN
PROFESSOR ALBERTO PRESTININZI / ITALY
PROFESSOR BENOÎT RITTAUD / FRANCE
DR. THIAGO MAIA / BRAZIL
PROFESSOR FRITZ VAHRENHOLT / GERMANY
THE VISCOUNT MONCKTON OF BRENCHLEY / UNITED KINGDOM
DUŠAN BIŽIĆ / CROATIA, BOSNIA AND HERZEGOVINA, SERBIA AND MONTE NEGRO

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Press-release-Clintel-The-Frozen-Climate-Views-of-the-IPCC.pdf

https://wattsupwiththat.com/2023/10/07/marcel-crok-speaks-in-the-danish-parliament/

https://clintel.org/wp-content/uploads/2023/05/Clintel-The-Frozen-Climate-Views-of-the-IPCC-online-version.pdf

Video: 2022 Nobel physics prize winner John Clauser rips climate idiocy, No 'climate crisis' and IPCC 'one of the worst sources of dangerous misinformation' • Watts Up With That?

9) What about the scientists' man-made Global Warming crisis consensus?

Expert opinion by Dr. Richard Lindzen, Dr. William Happer and Dr. Steven Koonin

The case against going carbon-neutral

I. THERE WILL BE DISASTROUS CONSEQUENCES FOR THE POOR, PEOPLE WORLDWIDE, FUTURE GENERATIONS AND THE WEST IF FOSSIL FUELS AND CO2 EMISSIONS ARE REDUCED TO "NET ZERO"

A. CO2 is Essential to Our Food, and Thus to Life on Earth

B. More CO2, Including CO2 from Fossil Fuels, Produces More Food.

C. More CO2 Increases Food in Drought-Stricken Areas.

D. Greenhouse Gases Prevent Us from Freezing to Death

E. Enormous Social Benefits of Fossil Fuels

F. "Net Zeroing" Fossil Fuels Will Cause Massive Human Starvation by Eliminating Nitrogen Fertilizer

II. THE IPCC IS GOVERNMENT-CONTROLLED AND THUS ONLY ISSUES GOVERNMENT OPINIONS, NOT SCIENCE, THUS PROVIDES NO SCIENTIFIC BASIS FOR THE COURT'S OPINION

III. SCIENCE DEMONSTRATES FOSSIL FUELS AND CO2 WILL NOT CAUSE DANGEROUS CLIMATE CHANGE AND EXTREME WEATHER

A. Reliable Science is Based on Validating Theoretical Predictions With Observations, Not Consensus, Peer Review, Government Opinion or Cherry-Picked or Falsified Data

Reference: Shell v. Milieudefense et al – Expert Opinion Prepared for Foundation Environment and Man November 30, 2023

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B. The Models Predicting Catastrophic Warming and Extreme Weather Fail the Key Scientific Test: They Do Not Work, and Would Never Be Used in Science.

C. 600 Million Years of CO2 and Temperature Data Contradict the Theory That High Levels of CO2 Will Cause Catastrophic Global Warming.

D. Atmospheric CO2 Is Now "Heavily Saturated," Which in Physics Means More CO2 Will Have Little Warming Effect.

E. The Theory Extreme Weather is Caused by Fossil Fuels and CO2 is Contradicted by the Scientific Method and Thus is Scientifically Invalid

Heat Waves. On extreme temperatures in the U.S.: "*The annual number of high-temperature records set shows no significant trend over the past century, nor over the past 40 years."*

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PHYSICS DEMONSTRATES THAT INCREASING GREENHOUSE GASES CANNOT CAUSE DANGEROUS WARMING, EXTREME WEATHER OR ANY HARM

More Carbon Dioxide Will Create More Food. Driving Greenhouse Gas Emissions to Net Zero and Eliminating Fossil Fuels Will Be Disastrous for People Worldwide.

I. SCIENTIFIC KNOWLEDGE IS DETERMINED BY THE SCIENTIFIC METHOD, VALIDATING THEORETICAL PREDICTIONS WITH OBSERVATIONS, NOT BY GOVERNMENT OPINION, CONSENSUS, 97% OF SCIENTISTS' OPINIONS, PEER REVIEW, MODELS THAT DO NOT WORK, OR CHERRY-PICKED, FABRICATED, FALSIFIED OR OMITTED CONTRADICTORY DATA

II. IGNORED SCIENCE. CO_2, OTHER GHGs AND FOSSIL FUELS WILL NOT CAUSE CATASTROPHIC GLOBAL WARMING AND MORE EXTREME WEATHER

A. **Carbon Dioxide Now and At Higher Levels is a Weak Greenhouse Gas, So Reducing It and the Other GHGs to Net Zero Will Have a Negligible Effect On Temperature**
B. **The EPA's MAGICC Model Confirms Carbon Dioxide Now and at Higher Levels is a Weak Greenhouse Gas, So Reducing It to Net Zero Will Have a Negligible Effect on Temperatures**
C. **12 C. 600 Million Years of CO_2 and Temperature Data Contradict the Theory That High Levels of CO_2 Will Cause Catastrophic Global Warming.**
D. **Today's 425 ppm CO_2 Level Is Very Low, Not Dangerously High, 600 Million Years of Data Show .**

III: THERE WILL BE DISASTROUS CONSEQUENCES FOR THE POOR, PEOPLE WORLDWIDE, FUTURE GENERATIONS, AMERICANS, AMERICA, AND THE WEST IF CO_2, OTHER GHGs AND FOSSIL FUELS ARE REDUCED TO NET ZERO AND WILL ENDANGER PUBLIC HEALTH AND WELFARE

recent paper on the subject written by Drs. Richard Lindzen and William Happer

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IV) CO_2 is Essential to Our Food, and Thus to Life on Earth.
More CO_2, Including CO_2 From Fossil Fuels, Produces More Food.
More CO_2 Increases Food in Drought-Stricken Areas .
Enormous Social Benefits of Fossil Fuels
Net-Zeroing Fossil Fuels Will Cause Massive Human Starvation by Eliminating Nitrogen Fertilizer.
Energy Poverty Worldwide Must Be Reduced, Which Requires Increasing Hydrocarbon Availability.
Greenhouse Gases Prevent Us from Freezing to Death
V. UNSCIENTIFIC EVIDENCE IS THE BASIS OF THE EPA ENDANGERMENT FINDING, ALL KNOWN NET-ZERO RULES AND SUBSIDIES
A. The IPCC is Government Controlled and Thus Only Publishes Government Opinions, Not Science.
B. The Models Predicting Catastrophic Warming and Extreme Weather Fail the Key Scientific Test: They Do Not Work and Would Never Be Used in Science.
C. The Theory Extreme Weather is Caused by CO_2, Other GHGs and Fossil Fuels is Contradicted by Observations and Thus is Scientifically Invalid.
D. The National Climate Assessments are Merely Government Opinion With No Scientific Value.
E. The EPA Endangerment Finding is Merely Government Opinion With No Scientific Value.
F. The National Academy of Science's Valuing Climate Damages is Based On Peer Review and Thus Has No Scientific Value.
G. The Social Cost of Carbon Estimates are Scientifically Invalid

recent paper on the subject written by Drs. Richard Lindzen and William Happer
PHYSICS DEMONSTRATES THAT INCREASING GREENHOUSE GASES CANNOT CAUSE DANGEROUS WARMING, EXTREME WEATHER OR ANY HARM

9) What about the scientists' man-made Global Warming crisis consensus?

9) Reconsideration of 2009 Endangerment Finding and Greenhouse Gas

Richard Lindzen and Dr. William Happer

We are career physicists with expertise in radiation physics, which describes how carbon dioxide and other GHGs affect heat flow in Earth's atmosphere. We are both members of the National Academy of Sciences.

"The scientific underpinnings of the Endangerment Finding are weaker than previously believed and contradicted by empirical data, peer-reviewed studies, and scientific developments since 2009 (C-2)" and the Endangerment Finding ("EF")[2] are fatally flawed science, for two key reasons.

- It fails to consider contradictory science.
- It is not based on science; it is based on unscientific evidence.

Thus, there is no scientific basis for the Endangerment Finding that greenhouse gases ("GHGs") will endanger the public health and welfare. Furthermore, it endangers the public health and welfare itself and should be repealed ASAP.

Scientific details follow. [1] 90 FR 36288 (Aug. 1, 2025).

[2] EPA, Endangerment and Cause or Contribute Findings for Greenhouse Gases, 74 Fed. Reg. 66,496 (Dec. 15, 2009), Technical Support Document (Dec. 7, 2009)("TSD"),
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https://co2coalition.org/publications/co2-coalition-comment-2-on-epa-endangerment-finding/
https://co2coalition.org/publications/co2-coalition-comment-2-on-epa-endangerment-finding/
https://restoration-news.com/trump-is-right-science-demands-that-we-overturn-the-endangerment-finding

9) What about the scientists' man-made Global Warming crisis consensus?

U.S. Environmental Protection Agency overturns Greenhouse Gas Endangerment Finding



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U.S. Environmental Protection Agency overturns Greenhouse Gas Endangerment Finding

"The basis of the wrongheaded Endangerment Finding put ideology ahead of science," said Gregory Wrightstone, Executive Director of the CO_2 Coalition. "The rule has been an impediment to economic growth, a cause of rising energy costs and a destroyer of many thousands of jobs at power plants, coal mines and manufacturing facilities.""Since its 2009 enactment, the Endangerment Finding's scientific underpinnings have been found to be contradicted by empirical data, peer-reviewed studies and research."

On February 12, 2026, U.S. Environmental Protection Agency finalized its rescission of the 2009 Greenhouse Gas Endangerment Finding, which served as a prerequisite for regulating emissions from new motor vehicles and new motor vehicle engines. Absent this finding, EPA lacks statutory authority under Section 202(a) of the Clean Air Act to prescribe standards for GHG emissions. Therefore, EPA also finalized the repeal of all subsequent GHG emission standards from its regulations for light-, medium-, and heavy-duty on-highway vehicles and engines. This is the single largest deregulatory action in U.S. history saving over $1.3 trillion. As a result of these changes, engine and vehicle manufacturers no longer have any future obligations for the measurement, control, and reporting of GHG emissions for any highway engine and vehicle, including model years manufactured prior to this final rule. This action realigns EPA's regulatory framework with the best reading of the CAA, which does not authorize EPA to regulate GHG emissions from new motor vehicles.

Final Rule: Rescission of the Greenhouse Gas Endangerment Finding and Motor Vehicle Greenhouse Gas Emission Standards Under the Clean Air Act | US EPA

RCP8.5 Scenario Abandoned by IPCC - clintel.org

Climate change: Ditching of climate forecast 'shows science isn't ...

https://co2coalition.org/2026/06/10/climate-alarmisms-reset-and-the-policy-reckoning-it-demands/

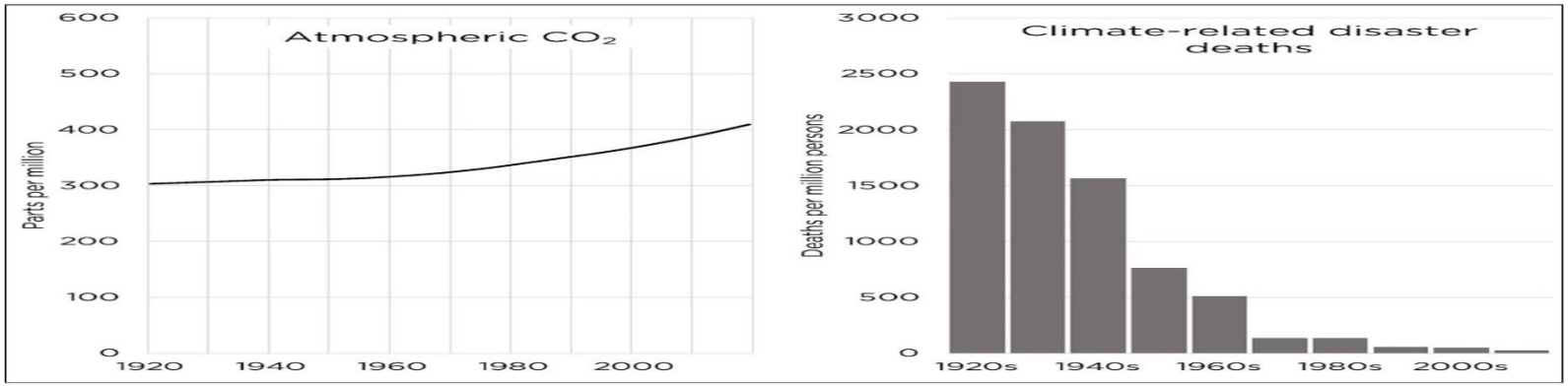
9) What about the scientists' man-made Global Warming crisis consensus?

The National Academies' perversion of science Alex Epstein

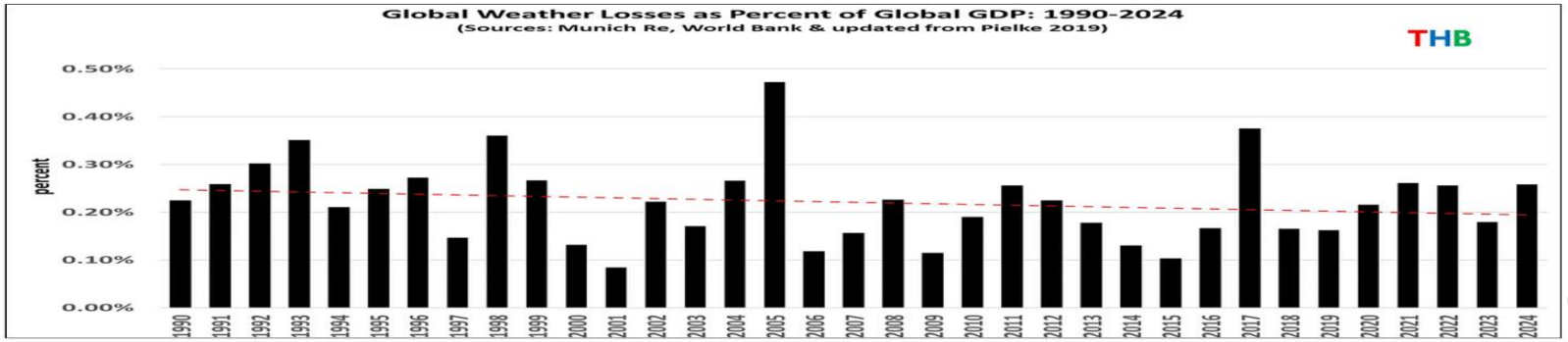
Comments on the 2009 Endangerment Finding and Greenhouse Gas

Climate danger is lower than ever, thanks in large part to fossil fuels

The empirical state of climate danger today compared to the past is very clear, and positive. **In recent decades, climate danger has been lower than ever**. Climate-related disaster deaths have decreased globally by 98% over the last century.



Not only have climate-related disaster deaths decreased, but **GDP-adjusted climate-related damages are flat despite many incentives for them to go up** (preferences for riskier areas, government bailouts).



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Comments on the 2009 Endangerment Finding and Greenhouse Gas

The dramatic decline in climate danger is due in large part to fossil fuels, which have provided and continue to provide uniquely cost-effective and scalable energy for the amazing machines that protect us against storms, neutralize extreme temperatures, and alleviate drought.

- That fossil fuels have driven climate danger to record lows doesn't contradict the idea that fossil fuels' GHG emissions impact climate. It means that **the climate positives that come along with GHGs—above all, what I call "fossil-fueled climate mastery"—far outweigh the negatives**.

The National Academies' "report" portrays climate danger as having gotten far worse

The National Academies just released a "report" supposedly informing the government about the relationship between GHGs, climate, health, and welfare. In reality, **the report is *disinformation* that falsely portrays climate danger, health, and welfare as worsening due to fossil fuels**.

Even though it's well-documented that human beings have experienced a dramatic decline in climate danger in recent decades and generations, **the National Academies claim "climate-induced harm" has gotten worse in recent decades and will continue to "worsen."**

How is this possible?

In summary, the committee concludes that the evidence for current and future harm to human health and welfare created by human-caused GHGs is beyond scientific dispute. Much of the understanding of climate change that was uncertain or tentative in 2009 is now resolved and new threats have been identified. These new threats and the areas of remaining uncertainty are under intensive investigation by the scientific community. The United States faces a future in which climate-induced harm continues to worsen and today's extremes become tomorrow's norms.

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Comments on the 2009 Endangerment Finding and Greenhouse Gas

Even though climate danger in the United States and around the world is at a historic low, **the National Academies' "report" claims that "climate-related illnesses and deaths are increasing in both severity and geographic range across the United States."**

What is going on here?

5

Impacts on Human Health

5.1 KEY MESSAGES

Human-caused emissions of greenhouse gases and resulting climate change harm the health of people in the United States. Evidence since 2009 supports and strengthens EPA (2009) conclusions and has deepened the understanding of how these risks affect health. Climate-related illnesses and deaths are increasing in both severity and geographic range across the United States.

The Academies refuse to consider the benefits, including climate benefits, of fossil fuels

- The reason the National Academies, a prestigious collection of organizations, are able to come to portray a time of record climate safety as a time of record climate danger is that it commits a fallacy I call "fossil fuel benefit denial."
- **"Fossil fuel benefit denial" is the fallacy of making policies or evaluations regarding fossil fuels that *only consider fossil fuels' negative side-effects* while *denying fossil fuels' massive benefits***, including climate benefits.
- Benefit denial of any form allows the opponent of something that is a huge net-benefit to portray it as a net-harm.

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Comments on the 2009 Endangerment Finding and Greenhouse Gas

While fossil fuels have clearly driven down climate danger and improved human health and welfare by providing a uniquely cost-effective and scalable form of energy, **the Academies make them look bad by refusing to consider those benefits, only considering negative side-effects**.

- Can I be sure that the Academies engage in fossil fuel benefit denial to reach their conclusion that climate danger is increasing due to fossil fuels' GHGs? Yes, because their report admits it's not considering the climate, health, or welfare benefits of fossil fuel energy!
- **The report "does not consider the potential of adaptation measures,"** an admission that it didn't factor in how fossil fuels help us master climate danger—even though this mastery has led climate deaths to plummet and thus, far outweighs any negative impact of fossil fuels' GHGs!
- **The report "did not take up the question of whether proposed regulations impose an undue economic burden,"** an admission it didn't factor in the huge economic benefits of fossil fuels—including those to health and welfare—that would be lost if we rapidly eliminated GHG emissions.
- The Academies' "report" on climate danger that denies all the ways fossil fuels reduce climate danger is no more valid than a report on polio danger that denies the existence of the polio vaccine and modern sanitation.

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Comments on the 2009 Endangerment Finding and Greenhouse Gas

•No matter how many citations it has, it is disinformation.

•**Some wonks might excuse the Academies' fossil fuel benefit denial by claiming the legal "endangerment" determination process doesn't allow considering benefits.**
But the Academies aren't part of that process; their job is to give holistic, informative reports—and they've failed.

•The National Academies, by charter, are supposed to "investigate, examine, experiment, and report upon any subject of science or art," not take positions on legal or policy disputes.

•**Their job regarding climate danger is to give us the full picture; they have totally failed to**.

•The National Academies, by charter, are supported to "report upon any subject of science or art" specifically "whenever called upon by any department of the Government."

No department called upon them re: the "endangerment" question; they inserted themselves to impact policy.

•**There is no excuse for the National Academies abusing their prestige to insert themselves into a regulatory process**—and to do so with a trash "report" that falsely portrays climate danger as worsening due to fossil fuels when it is clearly improving due to fossil fuels.

9) What about the scientists' man-made Global Warming crisis consensus?

A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate
Report to U.S. Energy Secretary Christopher Wright

This report reviews scientific certainties and uncertainties in how anthropogenic carbon dioxide (CO_2) and other greenhouse gas emissions have affected, or will affect, the climate, extreme weather events, and selected metrics of societal well-being. Those emissions are increasing the concentration of CO_2 in the atmosphere through a complex and variable carbon cycle, where some portion of the additional CO_2 persists in the atmosphere for centuries. Elevated concentrations of CO_2 directly enhance plant growth, globally contributing to "greening" the planet and increasing agricultural productivity..

They also make the oceans less alkaline (lower the pH). That is possibly detrimental to coral reefs, although the recent rebound of the Great Barrier Reef suggests otherwise. Carbon dioxide also acts as a greenhouse gas, exerting a warming influence on climate and weather.

***A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate*'.**

A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate Report to U.S. Energy Secretary Christopher Wright July 23, 2025
John Christy, Ph.D. Judith Curry, Ph.D. Steven Koonin, Ph.D. Ross McKitrick, Ph.D. Roy Spencer, Ph.D.

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Climate change projections require scenarios of future emissions. There is evidence that scenarios widely used in the impacts literature have overstated observed and likely future emission trends. The world's several dozen global climate models offer little guidance on how much the climate responds to elevated CO2, with the average surface warming under a doubling of the CO2 concentration ranging from 1.8°C to 5.7°C. Data-driven methods yield a lower and narrower range.

Global climate models generally run "hot" in their description of the climate of the past few decades – too much warming at the surface and too much amplification of warming in the lower- and mid troposphere [Sections 5.2-5.4]. The combination of overly sensitive models and implausible extreme scenarios for future emissions yields exaggerated projections of future warming. Most extreme weather events in the U.S. do not show long-term trends. Claims of increased frequency or intensity of hurricanes, tornadoes, floods, and droughts are not supported by U.S. historical data. Additionally, forest management practices are often overlooked in assessing changes in wildfire activity.

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Global sea level has risen approximately 8 inches since 1900, but there are significant regional variations driven primarily by local land subsidence; U.S. tide gauge measurements in aggregate show no obvious acceleration in sea level rise beyond the historical average rate.

Attribution of climate change or extreme weather events to human CO2 emissions is challenged by natural climate variability, data limitations, and inherent model deficiencies [Chapter 8]. Moreover, solar activity's contribution to the late 20th-century warming might be underestimated.

Both models and experience suggest that CO2-induced warming might be less damaging economically than commonly believed, and excessively aggressive mitigation policies could prove more detrimental than beneficial.

Social Cost of Carbon estimates, which attempt to quantify the economic damage of CO2 emissions, are highly sensitive to their underlying assumptions and so provide limited independent information.

U.S. policy actions are expected to have undetectably small direct impacts on the global climate and any effects will emerge only with long delays.

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Reference: Shell v. Milieudefense et al – Expert Opinion Prepared for Foundation Environment and Man November 30, 2023

Joe Rogan interview with Dr. William Happer and Dr Richard Lindzen https://www.youtube.com/watch?v=Zt32chvO_iY

MIT Professor of Meteorology confirming there is very little evidence of man-made climate change pic.x.com/cooGZonoM3

9) What about the scientists' man-made Global Warming crisis consensus?

Expert opinion by Gregory Wrightstone, CO2 Coalition

Gregory Wrightstone: "It's quite obvious that there are huge benefits that are due to climate change:

i) Longer growing seasons

ii) Crop productivity is outpacing population growth,

iii) Extreme weather-related deaths have dropped more than 90 percent since 1900,

iv) Deserts are shrinking, and

v) Forests are expanding."

Reference book: A Very Convenient Warming. How modest warming and more CO2 are benefiting humanity, Gregory Wrightstone

Earth Climate Pulse Theory

Climate as a Natural Cycle

Earth's climate is governed by **long-term, recurring natural cycles**. Climate has always changed and that the warming and cooling periods observed throughout history can be explained by natural mechanisms operating on timescales ranging from decades to millennia.Climate is not primarily controlled by atmospheric carbon dioxide concentrations. Instead, it is driven by a combination of **solar, lunar, gravitational, oceanic, and atmospheric cycles** that interact to create repeating patterns of warming, cooling, and extreme weather.

Primary Forcing Mechanisms (PFMs)

Natural forces regulate climate by influencing ocean circulation, atmospheric behaviour, and global weather patterns. These include:

Solar cycles and variations in solar activity

Lunar influences and gravitational interactions between the Earth, Moon, and Sun

Long-term ocean circulation patterns

Natural atmospheric oscillations

Multi-decadal and multi-century climate rhythms

These mechanisms work together to create **predictable climate cycles** and that understanding them allows for long-range forecasting.

9) What about the scientists' man-made Global Warming crisis consensus?

9) **Expert opinion by *Professor David Dilley***ian American meteorologist, climatologist, educator, and long-range weather forecaster

The Earth Climate Pulse

A central concept in Dilley's work is the **Earth Climate Pulse,** a recurring climatic rhythm alternating between warm and cool phases:
Warm Phase; Peak Warmth; Cooling Phase; Cold Phase; Renewed Warming; Cycle Repeats
Climate oscillates naturally rather than moving in one constant direction. Periods of warming are followed by cooling and then renewed warming. Extreme weather events tend to cluster during particular phases. Understanding these cycles enables prediction of future climate behaviour. Earth's climate is governed by **long-term, recurring natural cycles**. Climate has always changed.

Historical Climate Patterns
Roman Warm Period (200 BCE–400 CE)
Dark Ages Cold Period (400–800 CE)
Medieval Warm Period (900–1300 CE)
Little Ice Age (1300–1850 CE)
Modern Warming (1850–Present)

These major fluctuations occurred long before industrialisation, demonstrating that **significant climate changes can and has occurred naturally**. Modern warming is **another phase within this long-term oscillation**.

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Timeline of Climate Cycles in Dilley's Framework

Approx. Period	Climate Trend
800 BCE	Warm Period
400 BCE	Cooling Phase
200 CE	Roman Warm Period
600 CE	Dark Ages Cooling
900–1300 CE	Medieval Warm Period
1300–1850 CE	Little Ice Age
1850–1940 CE	Modern Warming Phase
1940–1975 CE	Mid-Century Cooling
1975–2000 CE	Renewed Warming
2000–Present	Continued Warming and Climate Extremes
2027–2030	Expected Transition Phase (Late 2020s)

Oceans as the Primary Climate Regulator

- Oceans store vastly more heat than the atmosphere.
- Changes in ocean circulation largely determine global climate patterns.
- Atmospheric temperatures often **follow** ocean changes.
- Multi-decadal ocean oscillations strongly influence warming and cooling phases.

This explains why he frequently discusses **El Niño, La Niña, and long-term ocean cycles** as key climate drivers.

Climate Forecasting

If climate operates according to recurring cycles, he argues, it should be possible to forecast: Droughts and floods, Hurricane activity, Temperature trends, Agricultural impacts and Extreme weather periods.

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Carbon Dioxide and Human Influence

CO_2 is not the **primary driver** of climate.
Natural cycles establish major warming and cooling trends.
CO_2 may play a secondary or amplifying role.
Historical climate changes show that large fluctuations can occur **without human influence**.
Understanding **natural cycles** is more important than focusing solely on greenhouse gases.

Forward Outlook: Late 2020s and Beyond

According to Dilley, the late 2020s (around **2027–2030**) mark a **transition phase** in the Earth Climate Pulse:
Movement toward **La Niña-like conditions,** with cooler ocean-dominant influences
Temporary moderation of global warming trends
Increased **climate variability,** with wetter and drier regional extremes
Higher risk of extreme weather during the transition
This phase is viewed not as a permanent reversal but as a **natural oscillation** within a longer repeating cycle. Extreme events—including hurricanes, droughts, and storms—are expected to occur in alignment with the timing of these ocean-atmosphere cycle shifts.

Reference The Natural Climate Pulse | David Dilley - YouTube

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Dilley's Position

Significant climate changes occurred **long before industrialisation**.
Therefore, **powerful natural climate mechanisms exist**.
These mechanisms operate in **recurring cycles**.
Modern climate changes resemble previous historical fluctuations.
Therefore, modern climate trends are best understood as part of **ongoing natural cycles**, not primarily human-driven.
This forms the foundation of **David Dilley's Earth Climate Pulse and Primary Forcing Mechanism theory**, which explains past climate variability and forecast future trends.

800 BCE 🔴 Warm Period
400 BCE 🔵 Cooling Phase
200 CE 🔴 Roman Warm Period
600 CE 🔵 Dark Ages Cooling
900–1300 🔴 Medieval Warm Period
1300–1850 🔵 Little Ice Age
1850–1940 🔴 Modern Warming Phase
1940–1975 🔵 Mid-Century Cooling
1975–2000 🔴 Renewed Warming
2000–2027 🔴 Continued Warm Phase
2027–2030 🟡 Transition Phase (cycle shift)
2030–???? 🔵 → 🔴 Alternating oscillations (future cycle behavior)

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How this is interpreted in Dilley's framework

- **Warm phases** = ocean-atmosphere configuration supports higher global temperatures
- **Cool phases** = opposite ocean configuration dominates, reducing global temperatures
- **Transition periods** = unstable switching between ocean regimes (highest variability)

Key idea in the model

Climate is not linear
It oscillates in repeating cycles
"Modern warming" is part of a repeating warm phase
Late 2020s = **major ocean-cycle shift window** (often linked to La Niña-like conditions)
David Dilley's work is considered "important" mainly within the context of **long-range weather forecasting frameworks that prioritise natural variability and predictability from cycles**.

1. He focuses on long-term natural variability as a forecasting tool
2. Emphasis on oceans as a dominant heat regulator
3. Unifys historical climate patterns into a single framework which links Roman Warm Period, Medieval Warm Period, Little Ice Age and modern warming into a **single recurring system**.
4. Focus on predictability rather than purely retrospective explanation
5. Stress on natural drivers as part of the system

From the perspective of his framework, Dilley's work is considered important because it: prioritises **predictability and forecasting,** highlights **ocean-driven variability,** attempts to **unify historical climate patterns into cycles,** focuses on **multi-decadal natural oscillations** challenges linear interpretations of climate change

Where is the physical evidence of dangerous global warming resulting from carbon dioxide emissions?

In physical science, physical evidence is paramount. It can be carefully gathered by observation and experiment. Existence of a physical phenomenon can be established only by observation and experiment. Opinions of "experts" are frequently used, but physical evidence, especially observation, is the ultimate and final judge.

A European "Expert Commission" and others are pushing that the World Health Organization declare a world health emergency caused by global warming/climate change. This is strange given that humanity evolved in the tropics of Africa where it is hot year-round. Tilak Doshi responded: "The WHO is at it Again: Climate Change Repackaged as a Health Emergency."

Climate changes ('natural variability') and human activities may both have contributed to climate change, but the data do not tell us by how much. Prudent adaptation – resilient infrastructure, improved healthcare systems, technological innovation in energy and agriculture – makes eminent sense. What does not make sense is the relentless campaign to portray every health challenge as another symptom of the 'carbon dioxide crisis'.

Health scares justify growing budgets and policy influence. They also detract from the proven drivers of better health outcomes: prosperity, affordable energy and practical engineering. Real public health progress has always come from technological innovation and economic growth, not from perpetual climate alarmism. We should insist on evidence-based approaches that prioritize human flourishing over the latest iteration of the climate-health hobgoblin.

Reference http://www.sepp.org/the-week-that-was.cfm…

Where is the physical evidence of dangerous global warming resulting from carbon dioxide emissions?

In the early 1800s many astronomers and others began wondering why Earth was warm enough to support life given its distance from the Sun. In 1859, physicist John Tyndall began experiments using early instruments that measure spectroscopy – the absorption and emission of both visible and invisible light (to humans) by matter – electromagnetic radiation. In 1861, Tyndall reported that certain gases are transparent to sunlight but interfere with infrared radiation. In 1863 Tyndall reported that the dominant gas interfering with the cooling of Earth is water vapor. Carbon dioxide is a secondary gas that interferes with Earth cooling..

Unfortunately, Tyndall's findings have been subject to a great deal of misinterpretation. For example, climate modelers have assumed that a one degree of warming of Earth from carbon dioxide (or any other cause) will result in a one degree increase in warming from water vapor. **Yet they have not produced physical evidence substantiating this amplification.**

Reference http://www.sepp.org/the-week-that-was.cfm...

Where is the physical evidence of dangerous global warming resulting from carbon dioxide emissions?

Tim Palmer, a well-established global climate modeler writes: "*The amplifying knock-on effect is an example of what is called a positive feedback process. We emit carbon dioxide into the air. The air warms globally a small amount. Because of evaporation (e.g., from the oceans and land surface), the warmer air becomes more moist. The greenhouse effect from this extra water vapor increases the warming of the from carbon dioxide alone. The direct warming due to a doubling of carbon dioxide is a little over 1 °C. However, if we add this water vapor feedback, the warming doubles to just over 2 °C (3.6 °F). If we also take into account the fact that reflective ice and snow cover on Earth's surface start to disappear as the Earth gets warmer, so that more of sun's energy is absorbed at the surface, the warming increases to about 2.5 °C (4.5 °F).*
Now, he claims, climate change starts to become something to worry about. Note that he modifies the greenhouse effect of other greenhouse gases and not water vapor. Where is the physical evidence of the positive feedback from water vapor? It is missing. "*According to Le Chatelier's principle, when a system at equilibrium is disturbed by adding more of a reactant, the system will shift to counteract the change.*" https://www.britannica.com/science/common-ion-effect Palmer and the global climate modelers would have us believe that the climate system has positive feedbacks that amplify the original disturbance from increased carbon dioxide.
Yet they have not produced physical evidence substantiating this amplification.
Reference http://www.sepp.org/the-week-that-was.cfm…

Where is the physical evidence of dangerous global warming resulting from carbon dioxide emissions?

Detailed calculations by van Wijngaarden and Happer in "The Role of Greenhouse Gases in Energy Transfer in the Earth's Atmosphere", based on the actual measure of absorption spectra of greenhouse gas molecules in the atmosphere, provide us with the facts missing from IPCC Assessment Reports. (Spectra are the physical properties of certain gases in absorbing and emitting electromagnetic energy. The properties can be determined only by observation, and the properties of the dominant greenhouse gas may overwhelm the properties of other gases, such as methane and nitrous oxide rendering them meaningless as greenhouse gases.

Even though water vapor is the dominant greenhouse gas in the lower atmosphere, which affects the ability of other greenhouse gases to absorb and emit radiation, the IPCC ignores water vapor in making its calculations of greenhouse gas forcing. Without supporting evidence global climate modelers state that water vapor increase sufficiently to double the greenhouse effect of carbon dioxide and make forecasts of dangerous global warming. However, the physical evidence shows that the increase in water vapor is one-fourth of what is required to double the influence of a 1°C increase in temperature from increasing CO_2 or any other cause. **The work of the IPCC contradicts itself and contradicts physical evidence**.

Reference http://www.sepp.org/the-week-that-was.cfm…

9) What about the scientists' man-made Global Warming crisis consensus?

7 Claims Common About Mankind's CO_2 Causing a Climate Crisis

1. Although climate change has occurred in the past, the current warming trend is largely attributed to human activities associated with burning coal, oil and natural gas. These CO2 emissions have accelerated the warming cycle much faster than any natural cycle in Earth's history. **PROOF OF THIS? IF TRUE, SO WHAT?**
2. 97% of scientists agree that the climate is warming and that this is due to mankind's emissions of CO2. **SCIENCE IS NOT BASED ON CONSENSUS**
3. Climate change relates to longer-term changes in temperatures and thus recent cold periods are not relevant. **SAME FOR RECENTLY CLAIMED RECORD WARM DAYS**
4. Today's rapid warming is linked to human activity, with unprecedented levels of added CO2 and the current rate of added CO2. **NOT SUPPORTED OVER GEOLOGIC TIME**
5. There are presently excessive levels of CO2 in the atmosphere today. **NOT SUPPORTED OVER GEOLOGIC TIME**

6. Renewable energy is now more reliable and cost-effective and is now often cheaper than fossil fuels. **NOT FACTUALLY CORRECT**
7. Climate change initiatives will not negatively impact a country's economy. **NOT FACTUALLY CORRECT**

9) What about the scientists' man-made Global Warming crisis consensus?

60 Facts About CO_2 and Climate

1. CO_2 is not the primary greenhouse gas
2. The warming effect of CO_2 declines as its concentration increases
3. CO_2 is food for plants and is considered the gas of life
4. In the last four ice ages, the CO_2 level was dangerously low
5. The world has been in a 140-million-year trend of dangerously decreasing CO_2
6. The current geologic (Quaternary) period has the lowest CO_2 level in the Earth's history
7. More CO_2 means more plant growth
8. More CO_2 helps to feed more people worldwide
9. More CO_2 means moister soil, a greener globe and smaller deserts
10. Global warming stopped 18 years ago despite the rise in CO_2
11. CO_2 rose after the Second World War, but temperatures fell
12. The present warming began long before SUVs or coal-fired power plants
13. Melting glaciers and rising sea levels confirm that warming predates CO_2 increases
14. Temperatures have changed over 800,000 years and well before mankind
15. Interglacials usually last 10,000 to 15,000 years. Our present one is 11,000 years

Gregory Wrightstone Inconvenient Facts pages 125 - 128

9) What about the scientists' man-made Global Warming crisis consensus?

60 Facts About CO_2 and Climate

16. Each of the four previous interglacial periods was significantly warmer than the one we are currently experiencing
17. The last interglacial, about 120,000 years ago, was 8 degrees warmer than today and the polar bears survived, plus the Greenland ice didn't melt
18. Temperatures have changed over the past 10,000 and weren't due to mankind.
19. Today's total warming and rate of warming are similar to earlier periods
20. For 6,100 years out of the last 10,000 years, it was warmer than today
21. The current warming trend is neither unusual nor unprecedented
22. Earth's orbit and the tilt of the Earth's axis drive ice ages and interglacial periods
23. We are now living in one of the coldest periods in all of Earth's history
24. Earth has not had a geologic period this cold in 250 million years
25. The only thing constant about temperatures over 600 million years is that they have been constantly changing
26. For most of Earth's history, it was 10 degrees C warmer than today
27. IPCC's models overstate future warming up to three times too much
28. For human advancement, warmer is better than colder
29. Returning to pre-industrial Revolution temperatures will lead to famine and death

Gregory Wrightstone Inconvenient Facts pages 125 - 128

9) What about the scientists' man-made Global Warming crisis consensus?

60 Facts About CO_2 and Climate

30. Only 0.3% of the publications stated in their papers that the recent warming was mostly man-made
31. Science is not consensus, and consensus is not science
32. More CO2 yields fewer droughts
33. Higher temperatures also show fewer droughts
34. Forest fires in the Northern Hemisphere are decreasing
35. More CO2 provides more CO2 fertilization and more soil moisture, faster tree growth and fewer forest fires
36. More CO2 in the atmosphere means more food for everyone
37. The Earth is becoming greener and not turning into deserts, which are shrinking
38. Growing seasons are lengthening
39. More CO2 and warmer weather mean more world food production
40. EPA: Heat waves are not becoming more frequent
41. Extreme heat events are declining
42. Cold kills far more people every year than heat
43. Warmer weather means many fewer temperature-related deaths
44. Warmer weather prevents millions of premature deaths every year

Gregory Wrightstone Inconvenient Facts pages 125 - 128

9) What about the scientists' man-made Global Warming crisis consensus?

60 Facts About CO_2 and Climate

45. More CO_2 and warmth mean shorter and less intense heat waves
46. The number of tornadoes is decreasing
47. The number of tornadoes in 2016 was the lowest on record till zero in 2025
48. Death from tornadoes is falling
49. There has been no increase in the frequency of hurricanes in recent data
50. We have seen 250 years of declining hurricane frequency
51. No significant increase in hurricane intensity due to global warming
52. The polar bear population is growing
53. There are more polar bears today than there have been for 50 years
54. Polar bears thrive even where the sea ice is diminishing
55. There is no historical connection between CO_2 and the ocean's PH
56. The oceans did not become acidic, even at 15 times modern CO_2 levels
57. Sea level increases began more than 15,000 years ago
58. The recent sea level rise began 150 years before the increases in CO_2
59. Melting the northern polar ice cap in the Arctic Ocean will not raise the sea level
60. Most of Antarctica is cooling down and gaining ice mass

Gregory Wrightstone Inconvenient Facts pages 125 - 128

Climate Change: The Facts

Recent essays on the science, politics and economics of the climate change debate featuring the world's leading experts and commentators on climate change. Highlights include:

- Ian Plimer draws on the geological record to dismiss the possibility that human emissions of carbon dioxide will lead to catastrophic consequences for the planet.
- Patrick Michaels demonstrates the growing chasm between the predictions of the IPCC and the real-world temperature results.
- Richard Lindzen shows the climate is less sensitive to increases in greenhouse gases than previously thought and argues that a warmer world would have a similar weather variability to today.
- Willie Soon discusses the often unremarked role of the sun in climate variability.
- Robert Carter explains why the natural variability of the climate is far greater than any human component.
- John Abbot and Jennifer Marohasy demonstrate how little success climate models have in predicting important information, such as rainfall.

https://www.amazon.co.uk/gp/product/B00S5L5YoW/ref=ppx_yo_dt_b_d_asin_title_351_000?ie=UTF8&psc=1

Climate Change :The Facts Dr. John Abbot

Climate Change: The Facts

- Nigel Lawson warns of the dire economic consequences of abandoning the use of fossil fuels.
- Alan Moran compares the considerable costs of taking action compared to the relatively minor potential benefits of doing so.
- James Delingpole looks at the academic qualifications of the leading proponents of catastrophic climate change and finds many lack the credentials of so-called 'sceptics'.
- Garth Paltridge says science itself will be damaged by the failure of climate forecasts to eventuate.
- Jo Nova chronicles the extraordinary sums of public money awarded to climate change activists, in contrast to those who question their alarmist warnings.
- Kesten Green and Scott Armstrong compare climate change alarmism to previous scares raised over the past 200 years.
- Rupert Darwall explains why an international, legally binding climate agreement has extremely minimal chances of success.
- Ross McKitrick reviews the 'hockey stick' controversy and what it reveals about the state of climate science.

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Climate Change :The Facts Dr. John Abbot

Climate Change: The Facts

- Donna Laframboise explains how activists have taken charge of the IPCC.
- Mark Steyn recounts the embarrassing 'Ship of Fools' expedition to Antarctica.
- Christopher Essex argues the climate system is far more complex than it has been presented and there is much that we still don't know.
- Bernie Lewin examines how climate change science came to be politicized.
- Stewart Franks lists all the unexpected developments in climate science that were not foreseen.
- Anthony Watts highlights the failure of the world to warm over the past 18 years, contrary to the predictions of the IPCC.
- Andrew Bolt reviews the litany of failed forecasts by climate change activists.

https://www.amazon.co.uk/gp/product/B00S5L5YoW/ref=ppx_yo_dt_b_d_asin_title_351_000?ie=UTF8&psc=1

Climate Change :The Facts Dr. John Abbot

9) What about the scientists' man-made Global Warming crisis consensus?

Concerns with the United Nations' IPCC Climate Change

- **T**he IPCC's assessment of the impact of extreme weather events states a "high confidence" of temperature increases in average air and ocean temperatures and incidences of extreme heat in tropical and mid-latitudes. It also indicates high confidence in a decrease in arctic sea ice.
- However, it states "low confidence" for any increase in floods, rainstorms, landslides, drought, "fire weather," cyclones, hurricanes, tornadoes, sand and dust storms, hail, sea level rise, coastal flooding, and erosion. It also indicates low confidence regarding a decrease in snow, glaciers, ice sheets, or lake, river, and sea ice, beyond the Arctic region.
- How do such mundane assessments of the impact of climate change evolve into the narrative that "our climate is imploding" and "oceans are boiling"? In two ways: first, the public statements from the IPCC and the U.N. often diverge from what their own reports actually say; and second, the predictions of a dire future are based on models rather than observations.
- **John Clauser**, a 2022 Nobel Prize recipient in physics. stated in 2023 that "the popular narrative about climate change reflects a dangerous corruption of science that threatens the world's economy and the well-being of billions of people. Mr. Clauser stated. "In my opinion, there is no real climate crisis."
- *Authored by Kevin Stocklin via The Epoch Times*
- https://www.msn.com/en-gb/video/news/man-made-climate-change-is-garbage/vi
- Reform UK position on Climate Change -AA1z94Ta?ocid=msedgntp&pc=HCTS&cvid=cfa592b2dcaf468fb1500aed4da18925&ei=11

9) What about the scientists' man-made Global Warming crisis consensus?

Concerns with the United Nations' IPCC Climate Change - SEPP concerns

- The Science and Environmental Policy Project (SEPP) stands for objective science, based on hard evidence.
- The Science and Environmental Policy Project (SEPP) is a non-profit, 501-(c)-3, educational organization. SEPP does not receive support from oil, tobacco, or chemical companies or government organizations.
- SEPP examines questionable governmental policies, no matter how popular, to determine if policies are based on the rigorous application of the scientific method
- SEPP examines the integrity of databases used to establish policies to determine if they have been manipulated without compelling reasons, to assess if the databases address the issues claimed, and to determine if the databases used are comprehensive with no substantial data missing.
- SEPP questions the use of models for public policy unless the models have been appropriately verified and validated.
- In 2007, SEPP established the Non-governmental International Panel on Climate Change (NIPCC) **to respond to the false claims of the UN-IPCC, and its followers, who claim, without hard evidence, that the use of fossil fuels, and consequent CO_2 emissions, will lead to climate disasters.** The SEPP references 33 important scientific papers by many renowned scientists in supporting this claim. The Heartland Institute is an outstanding contributor and publisher of these reports.

[The Science and Environmental Policy Project (SEPP)]

9) What about the scientists' man-made Global Warming crisis consensus?

Empirical Evidence Contradicts IPCC Models and Solar Forcing Assumptions

- Analysis reveals that human CO_2 emissions, constituting a mere 4% of the annual carbon cycle, are dwarfed by natural fluxes, with isotopic signatures and residence time data indicating negligible long-term atmospheric retention.
- Moreover, individual CMIP3 (2005-2006), CMIP5 (2010-2014), and CMIP6 (2013-2016) model runs consistently fail to replicate observed temperature trajectories and sea ice extent trends, exhibiting correlations (R^2) near zero when compared to unadjusted records. **A critical flaw emerges in the (Intergovernmental Panel on Climate Change) IPCC's reliance on a single, low-variability.**
- Total Solar Irradiance (TSI) reconstruction, despite the existence of 27 viable alternatives, where higher-variability options align closely with observed warming—itself exaggerated by data adjustments.
- **We conclude that the anthropogenic CO_2-Global Warming hypothesis lacks empirical substantiation, overshadowed by natural drivers such as temperature feedbacks and solar variability, necessitating a fundamental reevaluation of current climate paradigms.**
- **The IPCC's CO_2-Global Warming narrative collapses under scrutiny.** Human emissions (4%) vanish in natural fluxes, models fail predictive tests, TSI uncertainty negates CO_2-Global Warming primacy, and adjusted data distort reality. Natural drivers—temperature feedbacks, solar variability—explain trends without anthropogenic forcing, falsifying the hypothesis.

https://www.malone.news/p/the-climate-scam-is-over?utm_campaign=post&utm_medium=web

9) What about the scientists' man-made Global Warming crisis consensus?

Empirical Evidence Contradicts IPCC Models and Solar Forcing Assumptions

- **The anthropogenic CO_2-Global Warming hypothesis, as articulated by the Intergovernmental Panel on Climate Change (IPCC) and supported by researchers such as Mann, Schmidt, and Hausfather, lacks robust empirical support when subjected to rigorous scrutiny**. This analysis integrates unadjusted observational data and recent peer-reviewed studies to demonstrate that the assertion of human CO_2 emissions as the primary driver of climate variability since 1750 is not substantiated. Instead, natural processes—including temperature feedbacks, solar variability, and oceanic dynamics—provide a more consistent explanation for observed trends.
- **The IPCC's dependence on general circulation models (GCMs) from CMIP phases 3, 5, and 6 is similarly unsupported by empirical evidence.**
- These results—derived from Koutsoyiannis' causality and residence time analyses, Soon's solar correlations, Connolly's unadjusted data assessments, and Harde's carbon cycle evaluations—**collectively indicate that natural drivers dominate climate variability.**
- **Human CO_2 emissions constitute a minor component,** GCMs exhibit fundamental limitations, TSI assumptions lack justification, and data adjustments introduce systematic bias.
- **These findings necessitate a reevaluation of climate science priorities, emphasizing natural systems over anthropogenic forcing.**

https://www.malone.news/p/the-climate-scam-is-over?utm_campaign=post&utm_medium=web

Jonathan Cohler and Willie Soon new paper on uncertainties in Ocean Heat Content (OHC) values IPCC communicated

9) What about the scientists' man-made Global Warming crisis consensus?

US Republican Party Resolution supporting a transformative Energy Freedom Policy

The Republican National Committee has passed an unprecedented resolution that powerfully advocates for energy freedom in America. The resolution is available here

- *WHEREAS, **Fossil fuel energy gives us an unprecedented ability to protect ourselves from the climate, driving down climate disaster deaths by 98% over the last century by powering the technology that protects us against storms, extreme temperatures, and drought**;*
- *WHEREAS, **Affordable, reliable energy is essential** to American and human prosperity because it **gives us the ability to use machines to become productive and prosperous**; and more affordable and reliable American energy leads to a better economy, a lower cost of living, more well-paid job opportunities, a smaller deficit, and greater national security;*
- *WHEREAS, **Fossil fuels are and for the foreseeable future will remain a uniquely affordable, reliable, scalable, and secure source of energy**—the only source that can provide plentiful energy to billions of people in thousands of places;*
- *WHEREAS, **Energy poverty is a crucial problem at home and abroad**, affecting tens of millions of Americans and billions worldwide, including the three billion individuals who survive daily on less electricity than a household refrigerator;*
- *WHEREAS, **Fossil fuel energy gives us an unprecedented ability to protect ourselves from the climate**, driving down climate disaster deaths by 98% over the last century by powering the technology that protects us against storms, extreme temperatures, and drought;*

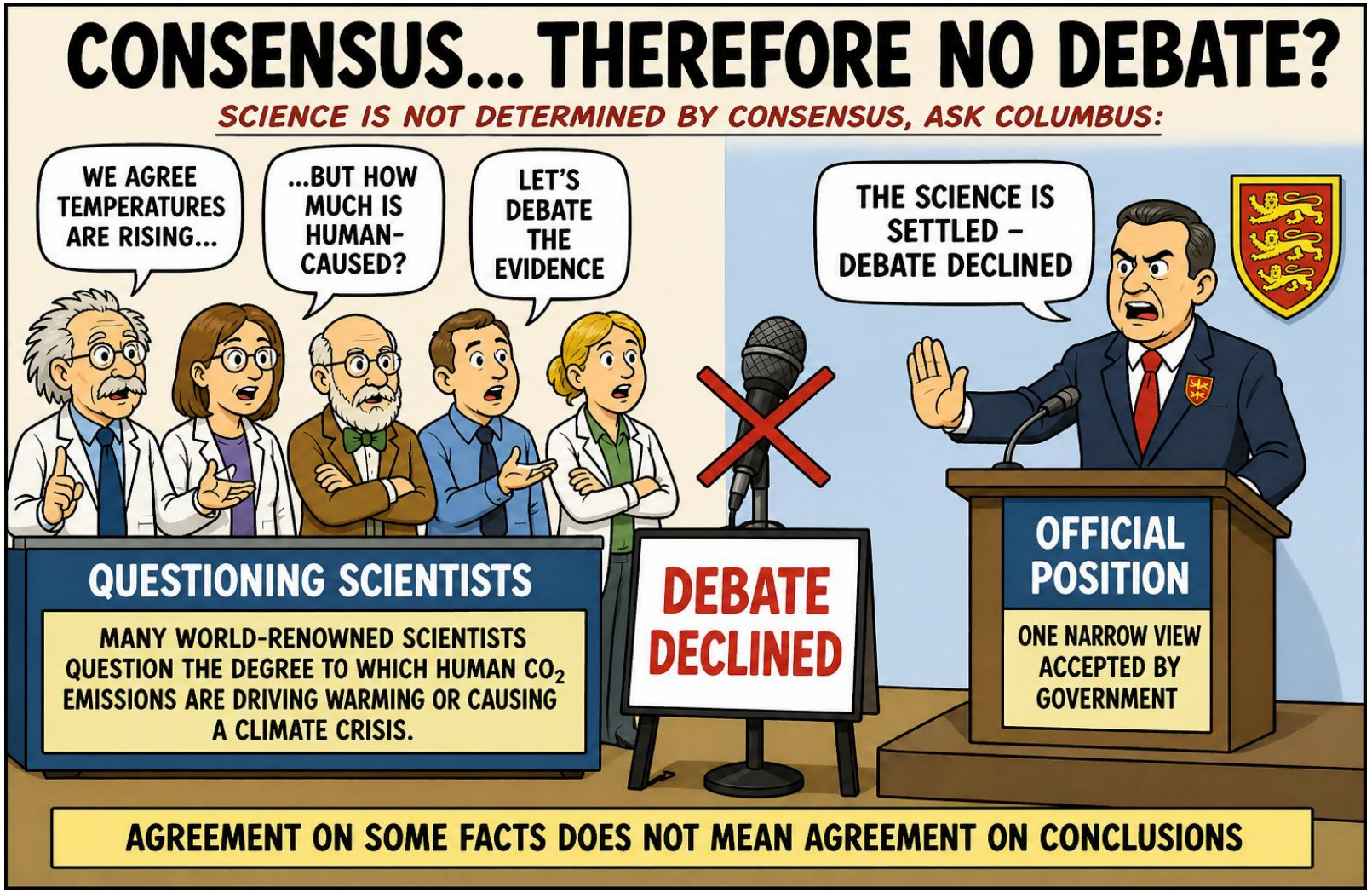
9) What about the scientists' man-made Global Warming crisis consensus?

US Republican Party Resolution supporting a transformative Energy Freedom Policy

- *WHEREAS,* ***America and the world need an energy policy that ensures plenty of fossil fuel energy and fosters promising cost-competitive alternatives*** *like nuclear energy;*
- *WHEREAS,* ***America can enrich itself and empower billions with policies that free human ingenuity to produce energy*** *in as low-cost, reliable, plentiful, and clean a way as possible—while protecting us against harmful emissions and dangerous practices;*
- *WHEREAS,* ***The Biden administration has restricted investment, production, and transport of American fossil fuels on the false promise that they can be rapidly replaced by solar and wind****; has shut down reliable power plants and created unprecedented electricity shortages; has sought to excuse their policies from fault by blaming price spikes on "Putin's price hike," post-COVID demand, or the supposed greed of oil companies; therefore, be it*
- *RESOLVED, That America should take the following steps to promote American prosperity, increase energy security, improve our environment, and enhance the well-being of billions around the world through energy freedom:* ***(1) Liberate responsible development of domestic energy resources; (2) End preferences for unreliable electricity; (3) Reform air and water emissions standards to incorporate realistic cost-benefit analysis; (4) Withdraw from climate agreements that punish America instead of fostering innovation; and (5) Unleash nuclear energy****; and*
- *RESOLVED, That the Republican National Committee urges the United States Congress and the White House to advance energy freedom policies that liberate American energy for the benefit of all.* Meet the scientists Trump could tap to undermine climate regulations - E&E News by POLITICO

9) What about the scientists' man-made Global Warming crisis consensus?

There is no consensus regarding mankind's CO_2 emission causing a climate crisis



9) What about the scientists' man-made Global Warming crisis consensus?

There is no consensus regarding mankind's CO_2 emission causing a climate crisis

- Consensus is based on the specific question asked. Scientists agree there is Global Warming and that mankind has increased CO_2 levels, which does affect temperature, but they do not agree as to the degree of impact or if this is causing a global warming crisis.
- Our understanding of global warming, as shaped by the media and environmental pundits, is severely biased; more public debates involving various experts are needed.

- (1132) NASA Engineer Tom Moser Reveals the Truth About Climate Science - YouTube
- https://youtu.be/oYhCQv5tNsQ BBC The Great Global Warming Swindle March 8, 2007

Climate I: Is The Debate Over? – YouTube Richard Lindzen and Hadi Dawlatabadi

(5124) Data shows there's no climate catastrophe looming – climatologist Dr J Christy debunks the narrative - YouTube

Freeman Dyson https://youtu.be/BiKfWdXXfIs

Ivan Giaever: www.foreignpolicyjournal.com/2016/01/01/nobel-laureate-ivar-giaever-on-climate-change

John Christy: Climate models for politics?..."A bridge too far" – YouTube

www.populartechnology.net/2007/10/no-consensus-on-global-warming.html

https://clintel.org/world-climate-declaration/

www.populartechnology.net/2007/10/no-consensus-on-global-warming.html

Wrong Again: 50 Years of Failed Eco-pocalyptic Predictions - Competitive Enterprise Institute (cei.org)

https://www.wsj.com/opinion/climate-ideology-is-dying-environment-change-policy-movement-8c8fb882?st=PWd67z&reflink=article_email_share

The Top 7 Reasons Science is Broken

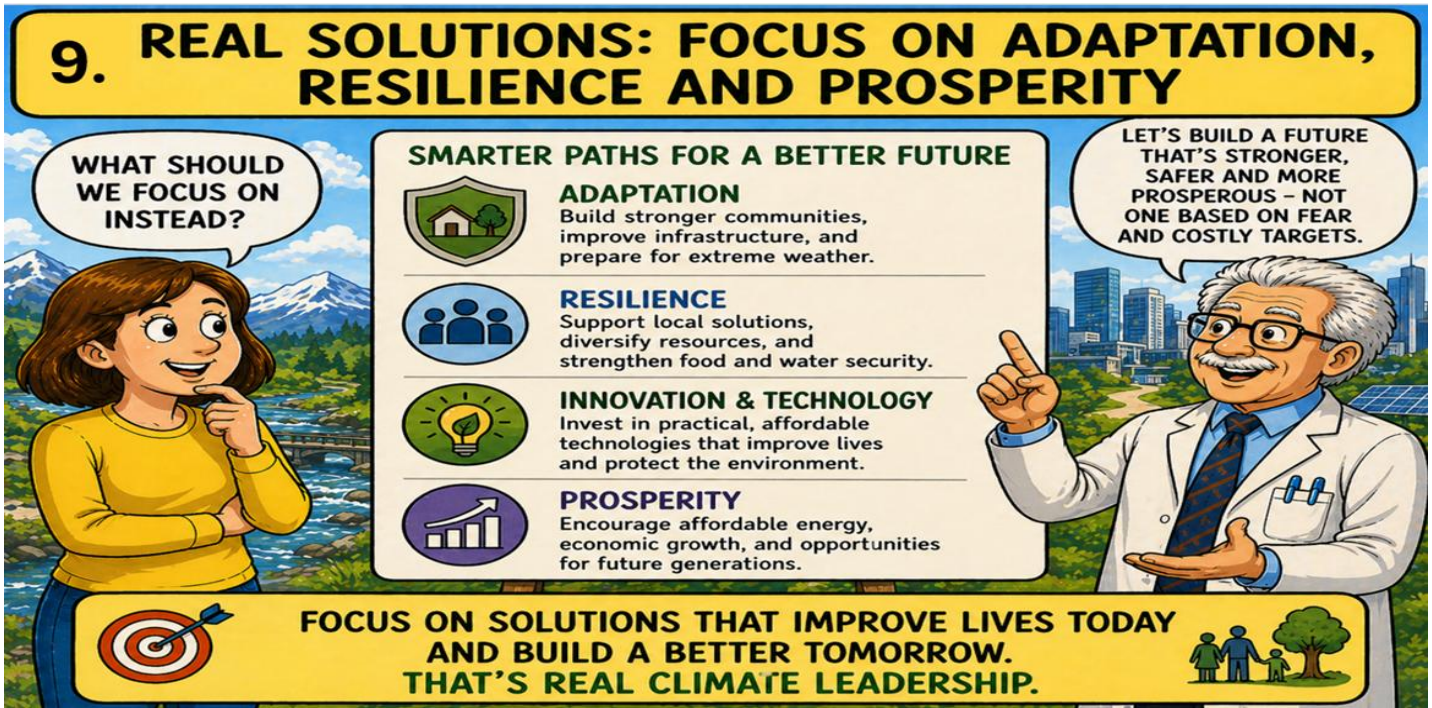
1900 Scientists Say 'Climate Change Not Caused by ...

'Grossly exaggerated': Media gives 'little attention' to new ... Interview with Dr Steven Koonin

Global Warming and CO_2
10 of 11 Questions

Question 10

If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?



10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Focus on reducing the actual pollutants while still obtaining advantages of fuel usage

Presently, automobile engine emissions are a source of environmental air pollution. Day by day the number of vehicles increases which increases the emission of pollutants from vehicles. By burning fuel in its combustion chamber cylinder, Internal Combustion engines convert heat energy into mechanical energy. Petrol and diesel oil are mainly used as fuels for these I.C. engines. These fuels contain hydrogen and carbon in various combinations. During combustion, oxygen combines with hydrogen and carbon to form water (H20) and carbon dioxide (CO2). These CO2 and H2O products are not the associated air pollutants.

Some fuel goes unburnt, resulting in smoke and ash. This incomplete combustion of fuels in automobiles results in polluted engine exhaust of partly burnt petrol, carbon monoxide, nitrogen oxides and, if sulphur is in petrol, sulphur oxides, which pollute the air. These oxides of nitrogen, together with hydrocarbons, react in the presence of sunlight and form petrochemical smog. The atmosphere becomes dirty and breathing may become difficult. Negative effects may also include crop damage, eye irritation, objectionable odour, decrease in visibility, cracking in rubber, etc.

Focusing on reducing and removing these pollutants, which is possible, is where the focus should be, thereby allowing continued cost-effective and energy-efficient use of fossil fuels.

An economic migration from fossil fuels over time utilising nuclear energy and potentially other developing energy (not wind and solar) is a pragmatic solution, which should be pursued in a realistic fashion while not negatively impacting society.

Dr. Judith Curry - Bing video (1115) "There's no emergency" – dissident climatologist Dr Judith Curry on climate change – YouTube Book: Climate Uncertainty and |Risk Dr Judith Curry

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Focus on reducing/removing the actual fossil fuel pollutants

- CO_2 emissions are not the problem. Focus on where the actual problem is and then solve this problem. Stop wasting funds on Carbon Net Zero initiatives and re-allocate these funds to more beneficial areas
- If the detrimental coal, oil and gas pollutant components or products are removed at refinery (e.g. sulfur removal at refinery level for petroleum use in transportation) and reduced during burning (e.g. improved engine combustion process or coal burning process with removal of noxious particles, SOx and NOx when creating electricity from steam), then we can continue to benefit from the very efficient and effective fossil fuel use with significantly reduced air pollution
- Significant improvements in removing pollutants have already occurred
- Continued focus on additional removal of these actual pollutants and improvement to engine combustion and advanced coal-fired generating plants that gasify the coal rather than burn it directly can and should be done with existing and evolving technologies to enable mankind to benefit from the efficient and effective use of fossil fuels while also protecting the environment
- To further reduce urban air pollution from fuel combustion, move to new dual-fuel engines that run on LPG and petrol; LPG has zero tail-pipe particulate emissions.

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Comments from The Science & Environmental Policy group

- **The Science & Environmental Policy Project** (SEPP) is a 501-c-3 organization, incorporated in Virginia. Established in 1990 by the late S. Fred Singer to challenge government environmental policies employing poor science, SEPP stands for objective science, based on physical evidence and rigorous adherence to the scientific method.

  No matter how elaborate, results from numerical models that are not thoroughly tested against physical evidence are speculative and cannot be relied upon. Testing the results from using parts of a model against the results from the entire model is a ruse used by the UN Intergovernmental Panel on Climate Change (IPCC). Major government policies based on speculation and misleading "modeling" are a waste of resources.

  Two prevalent myths are damaging our economy and hurting the less fortunate:

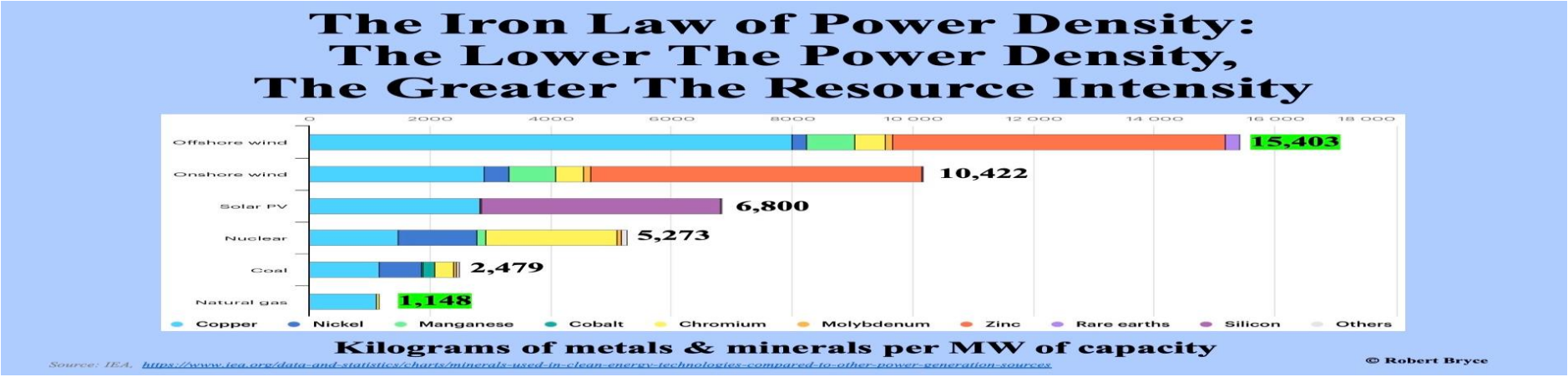
  1) greenhouse gases, chiefly carbon dioxide, are causing dangerous global warming; and

  2) wind and solar can easily replace fossil fuels, nuclear, and hydro in electricity generation.

As South Korea faces mounting pressure to bridge its energy supply-demand gap, the nation is doubling down on coal, oil, and natural gas imports. This decision, controversial in an era dominated by calls for decarbonization, underscores South Korea's pragmatic focus on safeguarding its economic engine while reinforcing its industrial dominance.

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Practical limitations to wind and solar power



The shape and size of our energy systems are ruled by the Iron Law of Power Density which says: the lower the power density, the greater the resource intensity. This can be seen in the graphic above. It includes a screen grab from a 2021 International Energy Agency report on the mineral intensity of various methods of electricity generation. The mineral intensity of offshore wind, including huge amounts of copper and zinc, is: roughly 15,400 kilograms per megawatt of generation capacity; roughly 13 times more than the amount needed for natural gas-fired generation (1,148 kg) and six times more than what's needed for a coal plant (2,479 kg).

The Iron Law of Power Density explains why offshore wind projects in the U.S. and in Europe are being cancelled. It also explains why, all around the world, rural communities and landowners are fighting back against the landscape-blighting encroachment of massive wind and solar projects.

https://www.cer-rec.gc.ca/en/data-analysis/energy-markets/market-snapshots/2016/market-snapshot-canadian-tidal-power-capacity-fourth-in-world-with-potential-add-up-7-000-mw-more.html

https://open.substack.com/pub/robertbryce/p/the-iron-law-of-power-density-part?r=ukert&utm_campaign=post&utm_medium=email

Details on wind farms https://youtu.be/LklUVkMPl8g?si=pwaRoMahL7WnBHl6

https://en.wikipedia.org/wiki/Small_modular_reactor

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Practical limitations to wind and solar power

- Wind farms have technology and efficiency issues, plus environmental concerns with spinning blades and noise frequency issues affecting birds and whales and contractual concerns.
- Wind is an intermittent power source. All wind power from onshore has a worldwide efficiency (megawatt-hours generated versus megawatts installed) of only a 23-26 % rating.
- Wind farm maintenance costs and end-of-life issues are coming up short of ongoing return on capital estimates. Companies are rethinking wind power given supply reliability and sustainability costs.
- The UK's offshore wind energy plans, and the climate goals that go with it, have been brought to a sudden halt. https://www.bnn.ca/1.1969169.1694244871
- From a utility point of view, for the supplier of the final electricity to the grid, there is, on average, a terrible mismatch between when power is needed in the overall grid at the peaks of the day compared to the supply that reliably comes from both wind and solar. The grid availability of the utility requires an instantaneous match between supply and demand. Most utilities that are to serve vast areas are not supportive of intermittent sources like wind and solar for primary supply needs.
- Renewables cannot replace reliable energy sources in UK https://gridwatch.co.uk/
- Worldwide energy supply needs all available sources, including coal, natural gas, nuclear, hydroelectric, etc. Renewables like wind and solar have captured a few percent of the overall world's supply of electricity and may someday reach approximately 20% of the electricity.
- Limitations of wind farms https://youtu.be/ogqVE6VFFtI?si=eGew3Idscgir1rKJ
- http://digitaleditions.telegraph.co.uk/data/1503/reader/reader.html?social#!preferred/0/package/1503/pub/1503/page/69/article/NaN
- https://on.ft.com/3tYAcfp
- Tidal energy http://euanmearns.com/swansea-bay-tidal-lagoon-and-baseload-tidal-generation-in-the-uk/
- **Is an Energy System Transformation Even Possible?**
- https://www.bing.com/videos/riverview/relatedvideo?q=kathryn+porter+energy+consultant&mid=E52B20559ABE385764DEE52B20559ABE385764DE&FORM=VIRE
- Talk Truth 10 28 25 Steve Gorman, Allan, Corri Hunsperger **The Paris Climate Agreement, Climatism is Crumbling**

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Practical limitations to wind and solar power

- Electricity supply is required 100% of the time while solar farms produce electricity 20% of the time (averaged around the year) and wind at variable times when the wind is blowing. In late December in the northern hemisphere countries, you might be lucky to get useful solar for four hours on a clear day and virtually nothing for a string of three to four heavily cloudy days – just when you need the electricity for heat the most.

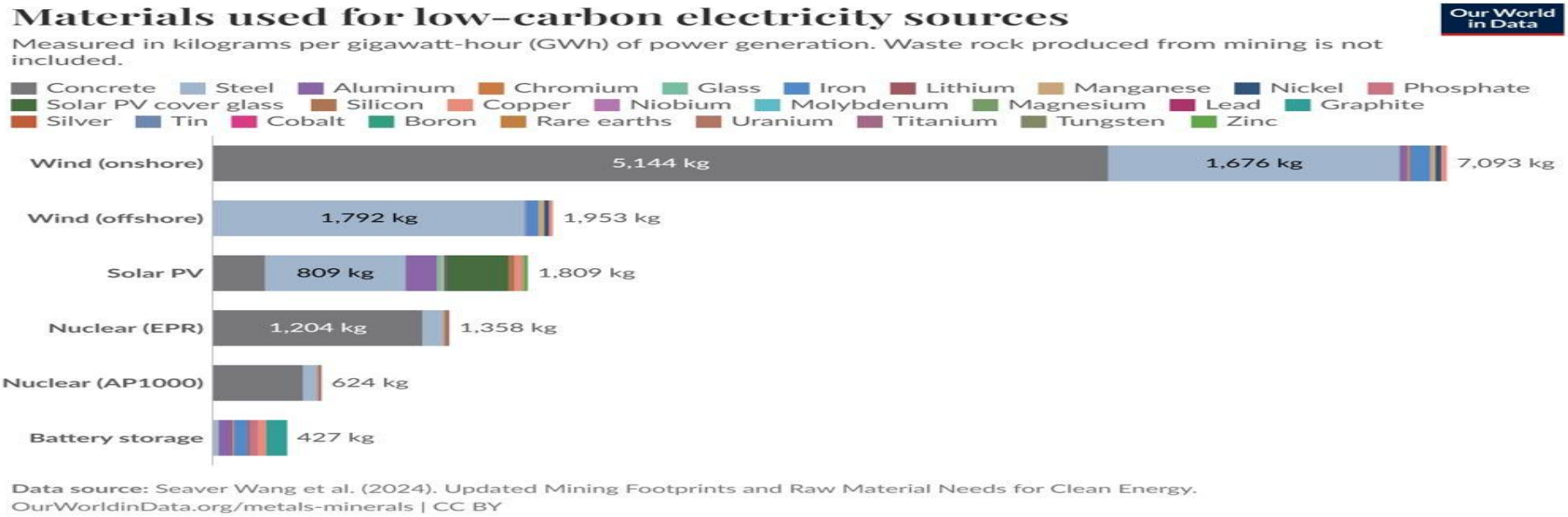
- If the solar and wind farm arrays are to provide 100% of the electricity, the storage system must hold many days worth of energy and the charging system may have to provide all the energy in a few hours. These options become extremely expensive as a sole source.

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Renewables are not renewable ***Roger Pielke Jr.***

Can wind turbines and solar panels be created from a supply chain powered by wind turbines and solar panels? The answer is no.

- Wind turbines and solar panels come from supply chains that are fossil fuel-intensive and technological options to replace those fossil fuels in their production do not yet exist, and may never exist. So-called "renewables" are not remotely renewable. To be sure, solar and wind technologies, coupled with storage, can contribute to the decarbonization of electricity. However, they are each built on a deep foundation of fossil fuels



Source: Our World in Data

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

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- The IEA's Net Zero by 2050 roadmap calls for solar PV capacity to increase 20x and wind power 11x. These increases require that annual solar additions must reach 630 GW per year by 2030 and wind must see annual increases of 390 GW. Battery storage must increase 14x to 1,200 GW by 2030. These numbers imply an unprecedented mobilization of materials and industrial production. For example:
- The world currently produces about 1.9 billion tonnes of steel per year. Wind turbines are 71–79 percent steel by mass. The Energy Transitions Commission estimates that a net-zero energy transition requires 6.5 billion tonnes of end-use materials between 2022 and 2050, of which 95 percent is steel, copper, and aluminum — which is about three and a half years of current total global steel production. The world produces about 23 million tonnes (Mt) of copper per year. A January 2026 S&P Global study projects a 10 Mt copper shortfall by 2040. Mine development averages 17 years from discovery to production — That means that projects started today will not produce copper until the early 2040s.
- The manufacturing of wind turbines, solar panels, and batteries at scale requires the sustained output of the entire global heavy industrial base — steel mills, cement plants, copper smelters, aluminum refineries, petrochemical complexes, glass furnaces, and the shipping networks connecting them. Every one of those industries currently runs on fossil fuels, with no commercial zero-carbon alternatives widely deployed in its most energy-intensive processes.

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- Making primary steel from iron ore — about 70 percent of global production — requires metallurgical coking coal in a blast furnace at around 1,500°C. Coal is not simply burned as fuel to create very high heat, it is also used in the chemical process that removes oxygen from iron ore to make iron. In 2023, less than 1 Mt of near-zero emission steel was produced globally, of a total global production of 1,889.2 Mt.
- In its Net Zero 2050 scenario, the IEA projects that steelmaking in 2050 would still use significant coal — for ~22 percent of energy input — and theoretically paired with carbon capture and storage that does not yet exist at commercial scale.
- The foundation under a wind turbine is reinforced concrete. Cement kilns run at around 1,450°C, and about two-thirds of cement's CO_2 comes not from burning fuel but from a chemical reaction that happens regardless of what source heats the kiln. Full decarbonization of cement has been projected to double its cost and also requires industrial-scale carbon capture and storage that does not yet exist.
- Solar panels are similarly carbon intensive. Producing solar-grade polysilicon requires smelting quartz at 1,500–2,000°C, followed by chemically intensive purification. According to the IEA's Special Report on Solar PV Global Supply Chains, coal generates more than 60 percent of the electricity used in global solar manufacturing and in China, which dominates solar manufacturing, that figure exceeds 75 percent.

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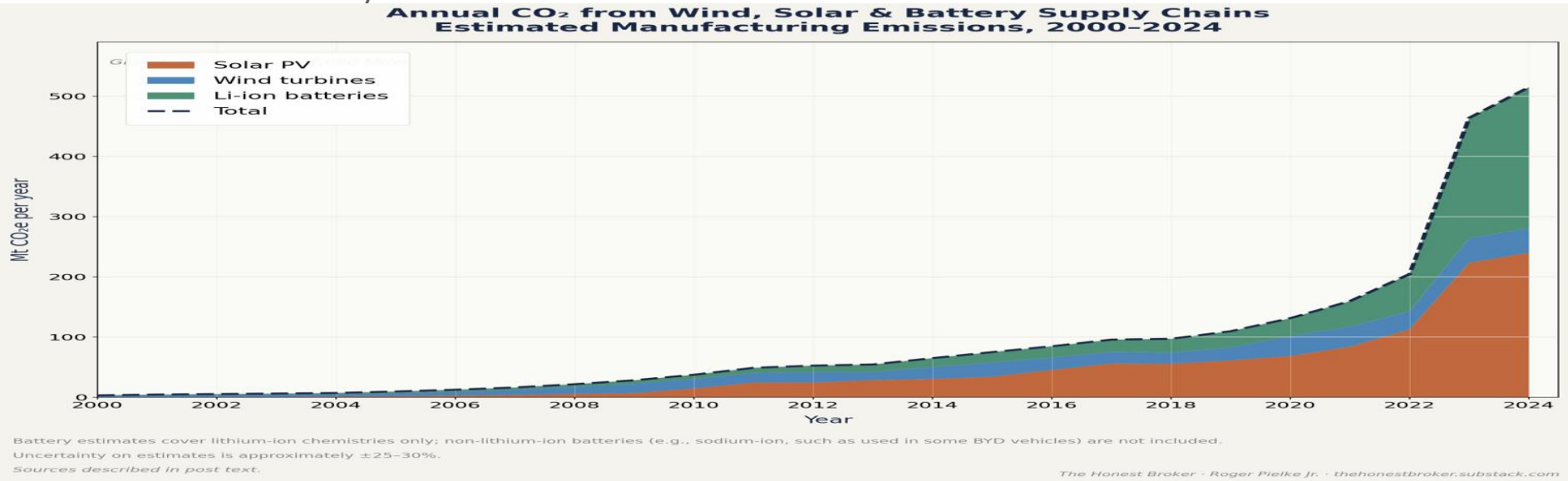
- The glass covering a solar panel — about 75 percent of its weight — is made in furnaces at around 1,100°C fueled by natural gas or coal. The aluminum frame requires fossil-fuelled smelting. The silver contacts come from diesel-powered mines. Other materials come from petrochemicals. Panels are shipped around the world on vessels burning heavy fuel oil.
- There is another category of fossil fuel dependency in solar panel and wind turbine supply chains: chemical feedstocks, necessary to create the many components necessary to assemble the final products.[2] Wind, solar, and battery manufacturing necessarily depend upon the petrochemical industry, which the IEA projects will continue growing through 2050 in every scenario.
- Batteries, necessary to store electricity when the wind does not blow and the sun does not shine, are fossil fuel intensive as well.[3] Batteries last ~10–13 years, which means they need replacing two or three times over the life of wind or solar generation assets they are paired with, which have lifespans of ~25-30 years. Every replacement cycle is a full repeat of mining, smelting, and manufacturing.[4]
- Wind turbines, solar panels, and batteries are products of the entire global industrial base. That base accounts for about 37 percent of global energy-related CO_2 emissions, with five heavy industries — cement, steel, oil and gas, chemicals, and coal mining — accounting for 80 percent of all industrial emissions.

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- The figure below shows an estimate of the carbon dioxide (CO_2) emissions from manufacturing supply-chains for new wind, solar, and battery capacity. Annual emissions have grown from ~4 Mt in 2000 to ~470 Mt in 2023 — about 1.3 percent of global energy CO_2, That growth is a pure volume effect: manufacturing carbon intensity per GW has fallen substantially, but absolute emissions have risen because deployment scale has grown much faster than intensity has declined.

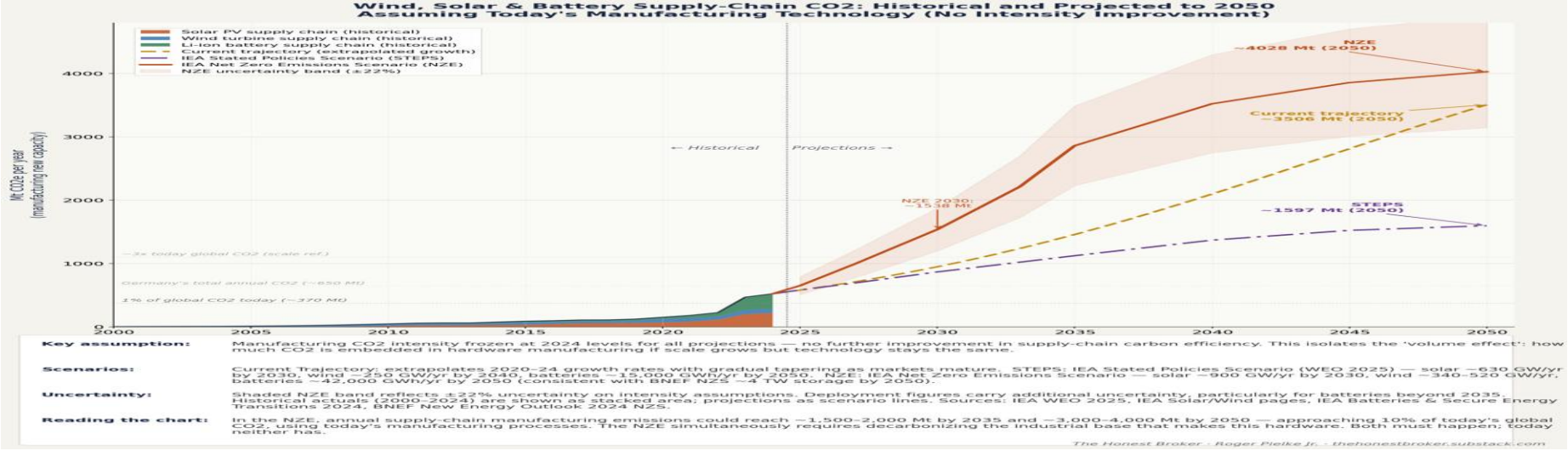


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- The figure below shows projected CO_2 emissions from wind, solar, and battery supply chains projected to 2050 under a frozen technology baseline for the IEA's net zero scenario (NZE), its stated policies scenario (STEPS), and a simple extension of the historical trend.[6] The historical data in the figure is the same found in the previous figure



- In the IEA's Stated Policies Scenario (STEPS), annual supply-chain manufacturing emissions are ~870 Mt by 2030 and ~1,600 Mt by 2050. That 2050 figure exceeds Japan's entire national CO_2 output today — with a population of 125 million and a $4 trillion economy — and approaches the *combined* annual fossil CO_2 of Germany, France, the United Kingdom, Italy, and Spain.

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- The NZE scenario requires the most new infrastructure, so it generates the most supply-chain emissions under frozen technology assumptions. For deep decarbonization to occur, both the massive hardware build-out and the assumed decarbonization of the global industrial base must happen simultaneously.
- The IEA NZE roadmap requires that *every month from 2030 onwards*, ten heavy industrial plants are equipped with carbon capture and storage, three new hydrogen-based industrial plants are built, and 2 GW of electrolyser capacity is added at industrial sites. That is the minimum background rate of industrial transformation required just to keep the scenario on track, independent of the deployment of wind, solar, and batteries across global grids.
- The narrow focus on wind, solar, and batteries by many climate advocates obscures the fact that these technologies do not emerge spontaneously from zero carbon industrial processes. The steel industry accounts for roughly 7–9 percent of global CO_2 annually. Cement accounts for another 6 percent. Copper, aluminum, chemicals, and the petrochemical feedstocks woven through every component add more. These are industries with capital stock turning over only once every 25–40 years, where investment decisions made today lock in emissions profiles for decades.

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- Wind and solar do reduce overall emissions when they displace fossil generation on the grid. But the energy transition is not simply a story of replacing electricity generation from fossil fuels system with lower carbon alternatives. Far more importantly, it is a story of transforming the foundations of the global industrial base — and today, that transformation is a long way off.[7]
- Scenarios of deep decarbonization have long assumed that technological progress would achieve what is required on schedules that align with political targets. The next time you hear numbers on the deployment of wind, solar, and batteries, acknowledge that reality, and then ask about rates of decarbonization in steel, cement, copper, aluminum, petrochemicals, glass, shipping and the other foundations of the modern world.

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

EV vehicles face serious consumer concerns **David Debertin post**

The public has soured on full electrification of vehicles as the key transportation solution.

Some of the problems deterring EV adoption include:

1) Limited range,

2) Heavy and expensive batteries that, whether charged or not, need to be hauled down the road. Normal load batteries would result in a drastic range deterioration,

4) Inability to deal with sub-freezing temperatures without drastically lowering the range,

5) Lack of charging stations. The subsidies to companies building charging stations, where none exist, are going away. For a charging station to be a profitable business without government subsidies, there needs to be a lot of EVs in need of charging on nearby roads. If the EVs are not on the roads, the charging station is an unsustainable business. Whether or not a charging station would exist and be available if the vehicle ran out of juice is a serious concern.

6) Time to recharge at the charging station,

7) Cost to purchase. EVs are pricey compared to their fossil fuel and even hybrid counterparts, even with federal subsidies and

8) EVs are not very good general-purpose vehicles.

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Practical solutions for reliable, cost-effective electricity generation

- Promote the use of proven, cost-effective and efficient electric generation techniques like nuclear (highest energy density), hydroelectric, geothermal, natural gas and recently environmentally improved coal-fired generating plants that gasify the coal
- Solar and wind generation techniques are costly, unreliable and not sufficient; development and improvements of these technologies should follow normal scientific and economic-driven factors and not rely on government subsidies
- **Same for electric vehicles. Long-standing EV vulnerabilities include high input costs, grid inadequacies, issues surrounding cold-weather performance and a skeptical market in which uptake, though publicized, has so far been anemic.**
- Allow technology and economics to drive the reduction of petroleum consumption.
- Hybrid vehicles (electric battery engine plus petrol engine) allow electric charging at home at night while using existing gas stations for road refueling. Charging batteries at home with petroleum fuel backup removes the need for roadway electric charging stations
- Vehicle transportation using battery power in populated cities reduces petrol-powered car pollution, where there may be an environmental concern
- The world should continue to benefit from the very efficient and effective fossil fuel use while reducing atmospheric pollution in affected areas

- https://www.city-journal.org/article/the-magical-thinking-behind-the-energy-transition Natural Gas or Coal – Lars Schernikau

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Practical solutions for reliable, cost-effective electricity generation

Affordable, Reliable and Clean: A Scorecard to Assess Competing Energy Sources

- Countries need affordable and reliable energy sources to power their economy, provide prosperous personal living standards and compete with global competitors. They also want to produce and use energy sources in a clean and ecologically healthy environment. These factors are key:

  1) **Affordability** ensures consumers can afford the electricity needed for day-to-day lives**.**

  2(**Reliability** ensures electricity is available whenever needed.

  3) **Environmental impact/clean** because we all want to be good stewards of our environment

- Seven electrical generation sources. (biomass, coal, hydropower, natural gas, nuclear power, solar power, and wind power() were analysed and scored based on these factors (**affordable**, **reliable**, and **clean energy)** resulted in the following ranking of energy options (lowest score for highest ranking)

- **Natural Gas** **4**
- **Nuclear** **5**
- **Hydro** **7**
- **Coal** **17**
- **Solar** **18**
- **Biomass** **20**
- **Wind** **24**

Affordable, Reliable, and Clean: An Objective Scorecard to Assess ... The Heartland Institute

Zap Energy: The first fission-fusion company - Watts Up With That?

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Practical solutions for reliable, cost-effective electricity generation

- Other than nuclear energy, no replacement for fossil fuels would meet a rational economy-
- Rooftop photovoltaic solar energy makes some sense only because it is significantly cheaper than the billion-dollar fiascos of failed concentrated solar power. However, any grid-scale solar is interruptible, and we don't have the battery technology to store it in sufficient quantities; also applies to wind power.
- With both PV solar and wind, the resulting consumer electricity costs have turned out to be much higher, not lower as advertised, than the systems they replaced. And they have significant and unresolved end-of-service disposal issues. Green hydrogen would bankrupt us twice: once in its manufacturing and again in replacing the infrastructure and appliances needed to burn it.
- Hydrogen burned in oxygen does produce water without releasing CO_2. Still, the air contains more nitrogen than oxygen—the nitrogen reaction results in significantly more smog from nitrous oxides..
- Hydrogen fuel cells are too inefficient, wasting about half of their energy.
- Biomass fuel is an accounting sleight of hand; it doesn't reduce physical CO_2 emissions at all. Converting corn and soybeans to fuels increases biofuel CO_2 emissions while simultaneously driving up the cost of food as farmland is diverted to fuel feedstock.
- Full-lifecycle hydropower greenhouse gas emissions are as bad as coal, due to the CO_2 generated in making the cement for the dams and the biogenic methane given off from the reservoirs. '*Sunset on Net Zero: A Heretic's Guide to the Futile CO_2 Target*', *Ron Barnby*
- ***Positive advancements in Modular Nuclear Reactors*** https://blog.gorozen.com/blog/trumps-nuclear-revolution-the-policy-that-could-redefine-u.s.-power?utm_campaign=Weekly%20Blog%20Notification&utm_medium=email&_hsenc=p2ANqtz--ARtNpwGZhOxskH60-PJf8tkcG1Phg55fC8tMmK4FRzxbcMNRICxyVvUJw3GRT1cZw3JMkavxfVuq6BleWy-swyFwCvQ&_hsmi=390899319&utm_content=390899319&utm_source=hs_email
- A nuclear energy resurgence is underway. Nuclear plants that were shut down are being restarted. Dozens of small reactors are being deployed. Published in *MasterResource* November 20, 2025.

Small Modular Nuclear Reactors update https://youtu.be/N1r_WPtqLpo?si=-p7eqMDvuR1orpqe

Why are developing economies pursuing small modular reactors? - America Out Loud News

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Practical solutions for reliable, cost-effective electricity Small Modular Nuclear Reactors

Promote Modular Nuclear Reactors Sized for Needed Energy

- The question as to how to meet the growing demand for electricity becomes how to continue to add continuous, uninterruptible, and reliable sources of electricity, to feed the growing global demand for a constantly increasing amount of energy? The future is looking bright for Small Modular Reactors- SMRs
- SMRs are next-generation nuclear reactors. They are much smaller than traditional nuclear reactors and are specifically designed to enable simpler design, faster deployment, and lower construction costs. Amazon it is helping to build one of the first Small Modular Nuclear Reactors in the U.S.
- The contrast with current renewable economics is stark: "Wind and solar are getting hundreds of billions in subsidies and still only provide 2% of our power despite what they claim. They max out at 25-30% capacity factor. Nuclear runs at 92%. And with recycling, the fuel cost becomes negligible—maybe 5% of the total cost versus 80% for natural gas.". Nuclear fusion is also advancing, offering new options
- Capacity factor measures how much electricity a power plant actually produces versus its maximum potential. Wind turbines only generate power when the wind blows; solar panels only when the sun shines. Nuclear reactors run continuously except for refueling every 18-24 by Angelica Sirotin

https://www.sirotinintelligence.com/were-sitting-on-100-trillion-and-want-to-pay-400-billion-to-throw-it-away-steven-curtis-on-americas-nuclear-waste-delusion-why-the-nrc-should-be-shut-down-and-how-texas-could-lead-the-f/

America's nuclear comeback is finally here

The EU's Nuclear Phase-Out Was a Blunder Following Friedrich Merz in January, Ursula von der Leyen has now also admitted that the phase-out of nuclear energy was a major 'strategic mistake', not only for Germany but for the EU.

ICYMI: X-energy, an Amazon-backedsmall reactor and nuclear fuel startup, raised $1 billion in its upsized IPO, it announced last night. *Go deeper*

TerraPower, the Bill Gates-backed nuclear company, broke ground on a Wyoming project that it calls "on track to be the first utility-scale advanced nuclear power plant" in the U.S. *The WSJ has more.*

MIT scientists say fusion overcoming energy challenges

What this fusion breakthrough means for energy

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Practical solutions for reliable, cost-effective electricity generation: Clean burning coal

Promote clean-burning coal plants that remove actual pollutants

1. Proven to be a reliable electricity generation fuel
2. Proven to be a reasonable and stable cost fuel for power generation
3 On-site storage for security and 24/7 reliability
4. Energy independence. America is the Saudi Arabia of coal
5. Clean coal plants can be built with reasonable regulations in about four years
6. Coal is the only fuel source that can provide the enormous primary energy needed to meet the peak electricity generation forecasted for the next decade
7. Until new nuclear electricity generation capacity is built, coal is the most viable source to provide the needed new electricity generation. New nuclear plants will take decades to build
8. Keeping America competitive with China and the rest of the world requires reliable, affordable electricity. Coal is the most available and proven fuel source to generate the power to restore American Manufacturing
9. Reliable power in the winter is most reliably provided by coal and/or nuclear
10. There is already too much dependence on natural gas fuel and increasing generation capacity in the near term is difficult due to supply-chain limitations

Corporate Analysis The Unpopular and Hard Truths of Coal Power The Lifeblood of the U.S.A. July 14, 2025 by Dick Storm Storm Technologies

Let's Get on with Building More New Coal Plants - CO_2 Coalition Richard Storm

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

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- To a surprising degree, electricity globally is still generated from this ***black rock from a geology museum called COAL***. Coal remains the largest single fuel for electricity generation, producing ~***35% of the world's power***. The reason?… coal plants are reliable workhorses. You can store months of fuel in a pile next to the power station, burn it whenever needed, and keep turbines spinning day and night delivering synchronous power at the right frequency, voltage, current, and phase.
- What remains clear is that the modern digital world may run on electrons and algorithms, but a very large share of the physical world is still built with materials that ultimately rely on coal: steel for buildings and machinery, cement for infrastructure, metals for electronics and grids, and high-temperature industrial heat that few alternatives can yet provide reliably and affordably.
- We have spent decades and enormous amounts of capital on the energy transition, and yet Germany still lacks sufficient reliable electricity capacity.Energy is not just part of the economy. It is the economy
- Wind and solar will always struggle to deliver reliable, affordable, and scalable power
- The three constraints most people ignore: ***energy density, intermittency, and lifetime***
- If you want the full breakdown, you can watch the video HERE **Dr Lars Schernikau**

Coal, The Fuel We Ignore But Cannot Replace

The Real Competition Behind the U.S Coal Revival

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Practical solutions for reliable, cost-effective electricity generation: Clean burning coal

Cost is an important factor

Modern, clean-burning coal plants can now significantly remove actual pollutants, emitting mainly CO_2 and H_2O.

Solar and Wind Energy Means High Electricity Costs:

US States using coal have 2 to 3 times cheaper electricity

by State, April 2025 and 2024 (Cents per Kilowatt hour)

US States with 50%+ Coal	US States with near 0% Coal
ND. $0.1169	HI $0.4244
UT. $0.1252	CA. $0.3177
WY. $0.1305	CT. $0.3228
WVA $0.1604	MA. $0.3065
MT. $0.1233	RI $0.2889
MO. $0.1283	

https://www.eia.gov/electricity/monthly/epm_table_grapher.php?t=epmt_5_6_a;

Natural Gas or Coal – Lars Schernikau

*Dick Storm **says that** "coal is indispensable" and that it is "the lowest cost proven source of primary energy for electricity generation ever in history." https://www.youtube.com/watch?v=sYh4WUc9itk;*

https://www.americaoutloud.news/despite-international-energy-agency-forecasts-coal-is-booming/

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Practical solutions for reliable, cost-effective electricity generation: Clean burning coal

Promote clean-burning coal plants that remove actual pollutants

1. Proven to be a reliable electricity generation fuel

2. Proven to be a reasonable and stable cost fuel for power generation

3 On-site storage for security and 24/7 reliability

4. Energy independence. America is the Saudi Arabia of coal

5. Clean coal plants can be built with reasonable regulations in about four years, with the addition of Flue Gas Cleanup systems that have made clean coal, clean. Examples of USA clean-burning coal plants include: Turk Plant, Arkansas, and Cliffside #6 of Duke Energy - Rogers Energy Center, South Carolina.

6. Coal is the only fuel source that can provide the enormous primary energy needed to meet the peak electricity generation forecasted for the next decade

7. Until new nuclear electricity generation capacity is built, coal is the most viable source to provide the needed new electricity generation. New nuclear plants will take decades to be built in sufficient capacity.

8. Keeping America competitive with China and the rest of the world requires reliable, affordable electricity. Coal is the most available and proven fuel source to generate this power

9. Reliable power in the winter is most reliably provided by coal and/or nuclear

10. There is already too much dependence on natural gas fuel and increasing generation capacity in the near term is difficult due to supply-chain limitations

Corporate Analysis The Unpopular and Hard Truths of Coal Power The Lifeblood of the U.S.A. July 14, 2025 by Dick Storm Storm Technologies

Perceptions vs. Reality | Dick Storm's Thoughts on Energy, Education, Economic Prosperity & Environmental Blog #ENERGYREALITY, COAL

Let's Get on with Building More New Coal Plants - CO_2 Coalition Richard Storm

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Practical solutions for energy and fuel generation: coal liquefaction

Direct coal liquefaction (DCL)

- **Process**: Coal is directly reacted with hydrogen under high pressure and temperature (around $450 \circ C$ and $14000–20000 kPa$
- **Output**: Synthetic crude oil is produced, which requires further refining to become usable fuels.
- **Mechanism**: A solvent helps break down the coal's hydrocarbon structure, and catalysts are used to speed up the conversion.

Indirect coal liquefaction (ICL)

- **Process**: Coal is first gasified into a mixture of carbon monoxide and hydrogen (synthesis gas).
- **Output**: This synthesis gas is then converted into liquid fuels, often using the Fischer-Tropsch process.
- **Mechanism**: The process involves a complete dismantling of the coal structure to create the intermediate synthesis gas before liquefaction occurs.

https://co2coalition.org/media/fossil-fuels-climate-chronicles/

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Recent events going against "Carbon Neutral" policies

- Many large developing countries such as China, India, Indonesia and Vietnam carry on with their ambitious schedules for growing coal mining capacity and building new fossil-fueled power plants needed by their growing economies.
- Many governments in the Global South struggle to have access to affordable fossil fuels. Western governments veto the development and use of fossil fuels in developing countries in the name of the "climate crisis". Carbon colonialism denies developing countries the means to scale the energy ladder to obtain industrial prosperity and high standards of living.
- European farmers have revolted. It's working and the middle classes have begun to support the populist right as a force in the European political order.
- Steve Goreham discusses the controversies surrounding the recent COP 29 climate conference and criticizes the effectiveness and practicality of current climate policies and renewable energy initiatives. Global efforts to curb CO2 emissions and switch to renewable energy have largely been ineffective, costly, and sometimes counterproductive. He also predicts a future pushback against green policies, driven by their economic and practical shortcomings, leading to a return to more reliable and low-cost energy sources.
- New steel manufacturing and coal-burning project extension in the USA and Canada

https://wattsupwiththat.com/2024/11/13/president-trump-the-final-nail-in-the-coffin-of-the-global-environmental-agenda/

Steve Gorham book Green Breakdown: The Coming Renewable Energy Failure

The Rise and Rise of King Coal - by Tilak Doshi

Decline of the Great North American Decarbonization Charade - CO_2 Coalition

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Recent events going against "Carbon Neutral" policies

- Dr. Sultan Al Jaber, the president of the COP28 climate summit and CEO of Abu Dhabi National Oil Company, said: "You're asking for a phase-out of fossil fuels… Please show me the roadmap for a phase-out of fossil fuel that will allow for sustainable socio-economic development, unless you want to take the world back into caves." Saudi Energy Minister Prince Abdulaziz bin Salman who told Bloomberg that the world's biggest oil exporter would not agree with Western demands to phase out fossil fuels. "Absolutely not,"
- BBC News: "Trump victory is a major setback for climate action." Mr. Trump's climate scepticism will encourage U.S. oil and gas dominance globally.
- Hours after the announcement of the results of the U.S. elections, the German three-party ruling coalition government collapsed after Chancellor Olaf Scholz announced the sacking of Finance Minister Christian Lindner over deadlocks on spending and economic reforms. The fiscal constraints brought on by years of irrational energy policies that de-industrialised and immiserated EU economies have come home to roost.

https://wattsupwiththat.com/2024/11/13/president-trump-the-final-nail-in-the-coffin-of-the-global-environmental-agenda/
https://financialpost.com/opinion/climate-policy-turning-point

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Recent events going against "Carbon Neutral" policies

- Shell has won a landmark case at The Hague court of appeal, overturning an earlier ruling requiring it to cut its carbon emissions by 45%. Renowned physicists Drs. Richard Lindzen, Steve Koonin and William Happer wrote in the filing that: Contrary to what is commonly reported, CO_2 is essential to life on earth. Without CO_2, there would be no plant food and thus no human or animal life. "Net zeroing" CO_2 will reduce the amount of food available for all people worldwide, especially the poor. Without fossil fuels, there will be no nitrogen fertilizer, and thus mass starvation, and no low-cost energy. "Net zeroing" will undermine human rights, crippling the eradication of poverty, the elimination of hunger and achieving universal good health and well-being.
- Science demonstrates that fossil fuels and CO_2 will not cause "dangerous" climate change and extreme weather**.** The entire Expert Opinion can be downloaded here.
- Court Erases 50 Years of Environmental Law: On November 12th, the U.S. Court of Appeals for the D.C. Circuit summarily erased 46 years of Federal environmental regulations. Writing in a case called Marin Audubon Society, et al v. FAA, et al, the majority of a three-judge panel ruled that the Council on Environmental Quality had illegally used the Federal Register to publish guidance, thereby giving citizens, agencies, and even the courts the impression that their internal guidance had the authority of law. The court goes on to detail how an advisory body with no regulatory authority was able to write environmental regulations for the entire United States for nearly a half-century just because it decided it could. Read more here.

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Recent countries' actions going against "Carbon Neutral" policies and initiatives

USA: moves away from carbon-neutral policy and related initiatives
https://youtu.be/FF9dSJEhx1Y?si=iHUgK1hdAmkpsKPI

U.S. Energy Secretary calls net-zero-by-2050 "sinister",and suggests a different energy conversation focused on humans and prosperity *The Trump administration* wants to end climate change NOAA programs.

Time to Defund Climate Models? *By Steve Goreham – April 29, 2025*

https://journalposts.com/trump-hits-multiple-home-runs-on-climate-and-energy-resetting-America-back-on-a-path-to-energy-security-independence/

US Department of Energy: *A Critical Review of Impacts of Greenhouse Gas Emissions on the US Climate*. Authors – John Christy Ph.D, Judith Curry Ph.D, Steven Koonin Ph.D, Ross McKitrick Ph.D, Roy Spencer Ph.D.

UK: Reform UK Party's position also moves away from carbon-neutral policy: https://www.msn.com/en-gb/video/news/man-made-climate-change-is-garbage/vi-AA1z94Ta?ocid=msedgntp&pc=HCTS&cvid=cfa592b2dcaf468fb1500aed4da18925&ei=11
Shortened: Artistly.ai - Unlimited AI Images, Consistent Characters, Perfect AI Text

Dozens of Labour MPs write to Keir Starmer demanding party waters down net zero commitments

Canada: Banks quit Carney's Net Zero alliance. Giving up the ideology is next. | Financial Post

International BRICS countries, including **Saudi Arabia, China, India, Brazil, and the United Arab Emirates,** represent more than 45% of the global population and 35% of the global gross domestic product. They declared that their domestic energy needs and economic well-being will take precedence over international climate agreements like the Paris Accords and "net zero" initiatives.
https://co2coalition.org/2024/11/18/brics-kazan-declaration-trumps-cop29-climate-blather/

Japan: Mitsubishi Corporation is preparing to withdraw from three offshore wind projects

Japan's Green Energy Failures Serve as a Warning to the US: Don't Fall for the Climate Agenda - CO_2 Coalition

10) If CO_2 is good and climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Adapt to Climate Change while providing reliable, cost-effective electricity generation

- **Championing increasing prosperity and adaptation is the proper course. The answer to climate change, as with all change, is "prosperous adaptation".**
- **Humanity has grown prosperous in large numbers thanks to the cheap and efficient use of fossil fuels. Improved prosperity for the poor 3rd world countries will require their reliance on fossil fuels and their unbeatable economic value.**
- **Gradual and economic transition to cost-effective and efficient alternative energy sources, like nuclear, will allow increased prosperity and development while adding alternative energy sources and supply over time.**
- **Promote economic development in developing countries**
- Developing technology to manage the environmental impacts of fossil fuels is being responsible. Depriving the world of reliable, affordable energy is not.

Reference books: An Appeal to Reason Lord Nigel Lawson 2008

The Moral Case for Fossil Fuels Alex Epstein 2014; Unsettled Steven Koonin; False Alarm Bjorn Lomberg

Reference Videos: Jordan Peterson https://youtu.be/--QS_UyW2SY

Oxford Collège debate https://m.youtube.com/watch?v=JKIOSnKX96E

The electricity grid, which is at the heart of our assumptions about how society will move forward. This

DR. BYRON CAPLAN LECTURE ON FUTURE OF FOSSIL FUELS

LISTEN NOW • 1:15:56 The 33-year-old nuclear scientist busting the 'Net Zero myth'

Global Warming and CO_2
11 of 11 Questions

Question 11

What are the negative implications of pursuing a Carbon Neutral policy?



https://www.climateskeptic.org/p/the-climate-skeptic-podcast-episode-722?r=1jqxnz&utm_campaign=post;

Global Warming and CO_2

Quote from Thomas Drolet

"Two prevalent myths are damaging our economy and hurting the less fortunate:

1) that greenhouse gases, chiefly carbon dioxide, are causing dangerous global warming; and

2) that wind and solar can easily replace fossil fuels, nuclear, and hydro in electricity generation.

Both are false yet widely accepted. "

Stop scaring our children

Thomas S. Drolet has had a 57-year international career in many phases of Energy, including Nuclear Power, Fusion Power, Nuclear Fuel Supply, major projects in Coal, Natural Gas, Distributed Generation, Oil and other Renewables (Geothermal, Hydroelectric, Solar and Biomass). He has advised on a variety of management and energy-associated issues.

A Generation of Kids Thinks They Have No Future. Science Just …

https://sealevel.info/Unsettled-Climate_Changes_Real_Story-NewsMax_and_the_CO2_Coalition-2026-with_ads.mp4

Why is the Financial Times Encouraging Parents to Make Their Children Anxious About Climate Change?

ESR | Worry about climate fearmongering – not climate change

11) What are the negative implications of pursuing a Carbon Neutral policy?

Net Zero by 2050 is pointless and not achievable

- Net Zero 2050 is pointless. 90% of the CO_2 warming is in the past because the atmosphere is already in a CO_2-saturated state. This is no longer just theoretical; it has now been observed in nature, consistent with the scientific method. Since the IPCC predictions about CO_2 warming have all been wrong, their hypothesis is wrong. Period.
- A Net Zero 2050 is unachievable. A stable, affordable, non-CO_2-emitting power grid cannot be built using today's technologies, unless it is nuclear. Many of the attempted alternatives have significant environmental downsides.
- Net Zero 2050 is unfair. G7 countries have dropped their share of total global emissions from 40% to 21%, while their share of global GDP dropped from 51% to 41%. China went from 14% to 31% of global emissions, while its share of global GDP increased from 3.6% to 17%. And poor countries are paying more for food as crops are turned into biofuels.
- **The WEF introduced Net Zero and the Climate Crisis to control humanity**

'*Sunset on Net Zero: A Heretic's Guide to the Futile CO_2 Target*', *Ron Barnby*

Media doing 'damage control' as widely reported study on cost of climate change gets retracted

News about Media Doing 'damage Control' As Widely Reported Study …

Dr Steven E Koonin - With climate realism ascendant, what now?

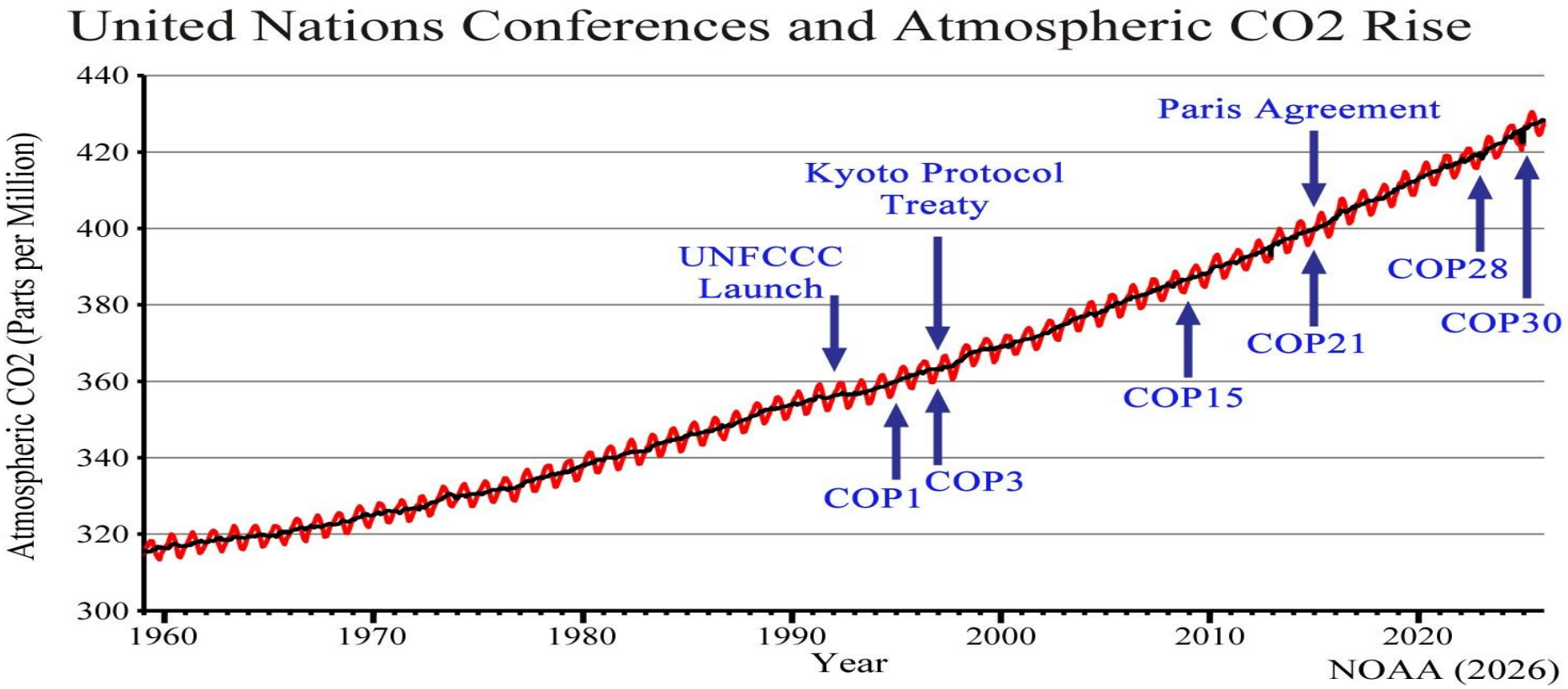
How the Club of Rome and the WEF invented Climate Change in order to control humanity pic.x.com/M27VcBeoEB

11) What are the negative implications of pursuing a Carbon Neutral policy?

The UN COPs 30 years of illusions without results

Climate Change and Energy: World Leaders in Turmoil

"There is no evidence that UN COP meetings and more than $10 trillion spent on renewables over the last 30 years have affected the climate. The average atmospheric carbon dioxide concentration, which is blamed for global warming, has been rising over the last 50 years without any change to the trend."



Climate Change and Energy: World Leaders in Turmoil Steve Goreham

11) What are the negative implications of pursuing a Carbon Neutral policy?

Reducing CO2 emissions is bad for plants

Reducing CO2 levels in the atmosphere is bad for plant growth and life.

- **Plants need and thrive on CO2 levels. Increased CO2 levels are bringing about improved crop growth plus a greening of the Earth, especially in desert areas. Reducing CO2 levels will mitigate this positive and desirable effect.**

Reference books: Confessions of a Greenpeace Dropout Patrick Moore

Reference Videos: Jordan Peterson https://youtu.be/--QS_UyW2SY

Oxford Collège debate https://m.youtube.com/watch?v=JKIOSnKX96E

Dr. Patrick Moore - A Dearth of Carbon? –YouTube

Discussion on the positive environmental impact of CO2, which is the fuel of plants

http://ecosense.me Patrick Moore Revised –YouTube

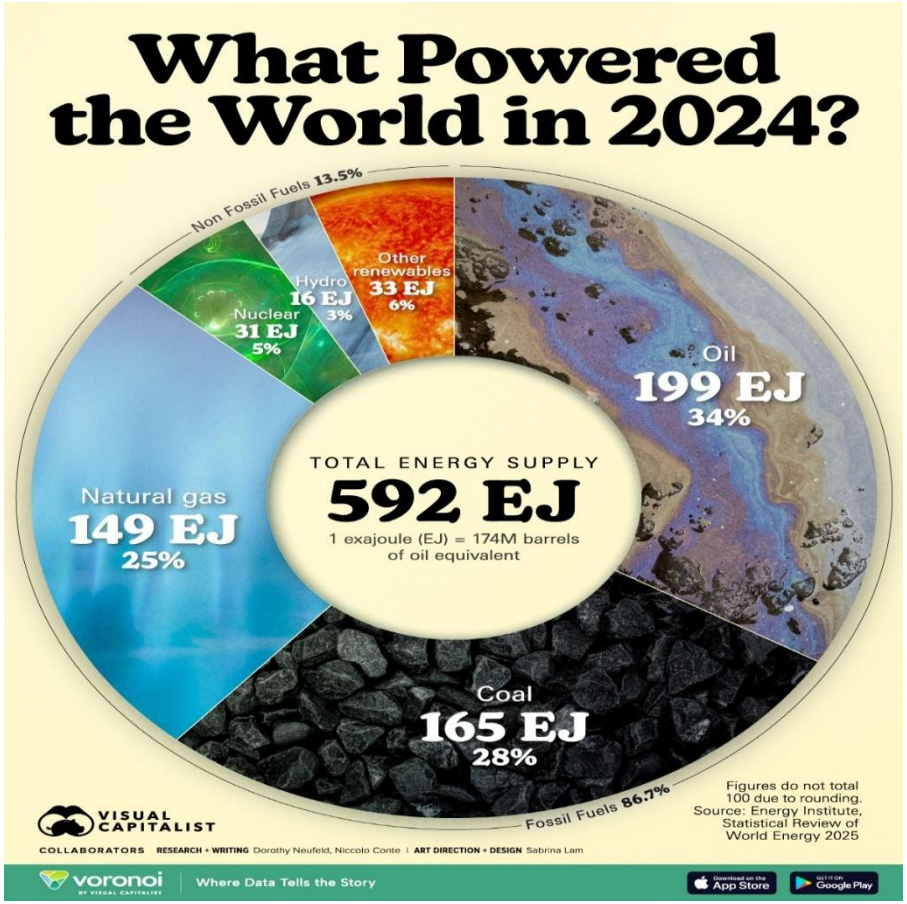
Discussion about predicted catastrophic doom effects of Global Warming being wrong and the main impact of increasing CO2 levels is increased growth of plants, trees and phytoplankton in the sea

https://boereport.com/2023/08/29/alex-epstein-returns-to-alberta-with-a-prescription-for-effective-energy-dialogues/

https://www.dailymail.co.uk/columnists/article-12493679/RICHARD-LITTLEJOHN-No-heat-pump-thermals-youre-nicked.html?ito=native_share_article-top

11) What are the negative implications of pursuing a Carbon Neutral policy?

Reducing fossil fuel usage would negatively impact the world economy





https://financialpost.com/opinion/bjorn-lomborg-wests-best-climate-bet-fuel-research-development **https://www.youtube.com/watch?v=1toJraNrVjo Renewables can ONLY generate unreliable electricity but CANNOT make any of the products or transportation fuels made FROM fossil fuels.**

Tensions in the Strait of Hormuz force us to reconsider material …

11) What are the negative implications of pursuing a Carbon Neutral policy?

Reducing fossil fuel usage would negatively impact 3rd world economy and these people

Access to fossil fuel energy will greatly help 3rd world economies and lifestyles.

- **Preventing and limiting the very cost-effective and energy-efficient use of fossil fuel energy for 3rd world developing countries will be very detrimental to their overall economic development.**

Reference books: An Appeal to Reason Lord Nigel Lawson 2008

The Moral Case for Fossil Fuels Alex Epstein 2014

Unsettled Steven Koonin

False Alarm Bjorn Lomberg

Reference Videos: Jordan Peterson https://youtu.be/--QS_UyW2SY

Oxford Collège debate https://m.youtube.com/watch?v=JKIOSnKX96E

(1115) "There's no emergency" – dissident climatologist Dr Judith Curry on climate change - YouTube

https://financialpost.com/opinion/lawrence-solomon-finally-its-safe-for-the-whistleblowers-of-corrupted-climate-science-to-speak-out

Jusper Machogu on Twitter: "Good morning from Kisii Kenya. What is it like to live here without fossil fuels? Some refer to it as 'Sustainable', I agree, only if its definition changes to 'break your back if you want to eat even though you'll be poor forever' I am weeding our maize. 🪛 https://t.co/9FY08Pql5W" / Twitter

(855) Net Zero 'Slavery' EXPOSED By Local Resident – YouTube

Michael Shellenberger interview https://www.youtube.com/watch?v=Ey7iWsDYnJ8

Joel Kotkin: The inhumanity of the green agenda (msn.com)

https://financialpost.com/opinion/global-warming-policies-hurt-poor

Africa's impact https://www.climateskeptic.org/p/africas-renewable-leapfrog-is-a-dangerous

Energy Apartheid Denying Africa Tech Future - CO2 Coalition

11) What are the negative implications of pursuing a Carbon Neutral policy?

Reducing fossil fuel usage would negatively impact 3rd world economy

Energy Apartheid Denying Africa Tech Future

By Vijay Jayaraj

Africa's push to host world-class data centers — AI's digital engines — is running up against a political embargo on the fuels that reliably power them, and ordinary Africans are paying the price. A key factor contributing to Africa's paltry energy production is a systematic embargo on fossil fuels in the name of climate action, which has disrupted fossil fuel investments in Africa over the past decade or so.

Across Africa, over 600 million people still lack access to electricity and more than 900 million still cook with biomass like cow dung and wood. Yet global financiers and Western NGOs treat fossil fuels, including natural gas, as public enemy number one. This has real effects: Financial restrictions from major institutions freeze investments in the fastest route to stable baseload power, and coal- and natural gas-fired facilities are delayed or never even proposed.

When the World Bank, regional development banks, or U.N.-backed initiatives fold climate alarmism into lending criteria, they effectively impose an energy embargo on nations trying to lift their people out of poverty. The African Development Bank stopped financing coal projects in 2019 and severely restricted the backing of oil and gas projects in 2021. The World Bank followed suit. These decisions, driven by United Nations climate targets and pressure, cut off capital that could have unlocked Africa's abundant reserves of hydrocarbons.

African countries wanting dependable electricity for hospitals, factories, and data centers cannot afford to wait for an idealized power grid that exists only in the imaginations of the climate deluded. They need natural gas, coal, and oil, which can deliver continuous power at scale today to jump-start industrial activity.

Energy Apartheid Denying Africa Tech Future – USSA News | The Tea Party's Front Page.

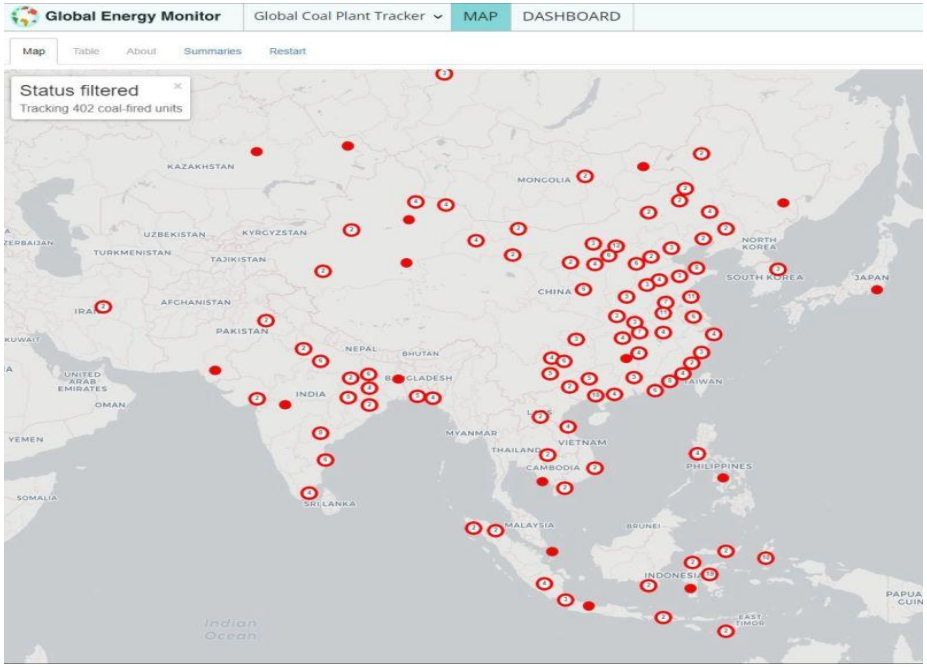
11) What are the negative implications of pursuing a Carbon Neutral policy?

What are other 3rd world countries doing?

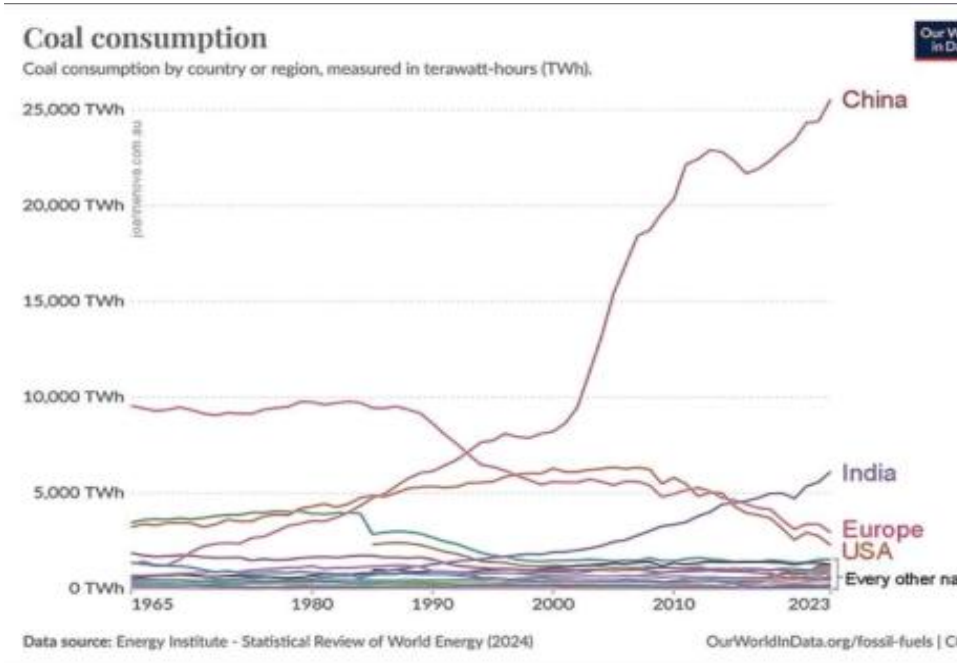
Access to fossil fuel energy will greatly help 3rd world economies and lifestyles.

Third-world countries continue to develop coal power plants to provide electricity.

Coal Power Plants under construction:2023



Coal Consumption by Country



"China burns half the world's coal, so we don't solve our problems by simply closing down British industries," Sir Dieter Helm, professor of economic policy at Oxford University,

https://co2coalition.org/2024/10/14/western-households-sacrifice-as-asians-splurge-on-coal/

https://co2coalition.org/2024/11/18/brics-kazan-declaration-trumps-cop29-climate-blather/

Trump's Withdrawal From Collapsing Climate Narrative

https://x.com/ABridgen/status/2017525010773029350

11) What are the negative implications of pursuing a Carbon Neutral policy?

Reducing fossil fuel usage would negatively impact 3rd world economy Vijay Jayaraj

Access to fossil fuel energy will greatly help 3rd world economies and lifestyles.

In the developing world, climate activism movements, often bankrolled by foreign non-governmental organizations (NGOs), have stalled critical projects across continents. These efforts ignore the human toll of energy poverty: children studying by candlelight, hospitals without power, and economies stunted by unreliable grids.

First, the developing nations should investigate the funding and motives behind climate activism. Who bankrolls these NGOs? Are their campaigns aligned with national interests, or do they serve foreign agendas?

Greenpeace International, for example, has undertaken protests of power generated by fossil fuels and nuclear reactors and of coal and aluminum mining across India, while half of India suffers from unreliable electricity supplies.

Greenpeace leadership enjoys the comfort of an industrial economy but is asking poor people in the Third World to forgo energy abundance and rely instead on useless wind turbines and solar panels and accept generational poverty for the sake of addressing a fabricated climate emergency.

11) What are the negative implications of pursuing a Carbon Neutral policy?

Reducing fossil fuel usage would negatively impact 3rd world economy Vijay Jayaraj

Access to fossil fuel energy will greatly help 3rd world economies and lifestyles.

Africa, home to over 600 million people with limited access to electricity, stands at the frontline of energy deprivation. Nigeria, Angola, and Mozambique have vast natural gas reserves, yet face continual opposition from international lobbies.

In the Democratic Republic of Congo, one of the world's poorest countries, the non-profit 350Africa.org coordinated demonstrations against oil and gas exploration, mobilizing hundreds of groups. In Uganda and Tanzania, the $3.5 billion East African Crude Oil Pipeline (EACOP), a lifeline for regional energy, has faced relentless opposition from groups like StopEACOP.

Second, governments must assert authority over energy policy, curbing local states or municipalities that align with crusades against fossil fuels. Many cities across the developing world have designated themselves as Net-Zero entities under an initiative of the World Economic Forum.

It is exasperating to see cities, still struggling to provide basic services for the health and safety of their citizens, are willing to prioritize foolish opposition to rational energy development. It is even more weird that municipal leaders would align with foreign organizations like the World Economic Forum and the United Nations in opposition to their own national interests.

11) What are the negative implications of pursuing a Carbon Neutral policy?

Reducing fossil fuel usage would negatively impact 3rd world economy *Vijay Jayaraj*

Access to fossil fuel energy will greatly help 3rd world economies and lifestyles.

Third, legal mechanisms should be used to deter frivolous lawsuits and protests. African nations rich in energy resources could adopt statutes penalizing activism that delays critical infrastructure without evidence of harm, mirroring the U.S. Attorney General's mandate to challenge unconstitutional state and local laws. Such measures would shift the burden onto activists to justify their claims, rather than paralyzing projects by default.

Energy security is national security, and no ideology should usurp that. From Nigeria's oil fields to India's coal mines, national leaders must dismantle efforts to stymie sensible energy use and clear a path for energy abundance and the eradication of poverty.

This commentary was first published at *Townhall* on April 22, 2025.

https://co2coalition.org/2026/02/25/epas-co2-reversal-is-welcome-opening-for-developing-world/

https://co2coalition.org/media/fossil-fuels-climate-chronicles/

Real Environmental Crisis Is Not Climate Change

- The real environmental emergency isn't the modest warming that has helped humans thrive. It's land degradation, poisoned water and other forms of pollution.
- While our children drink poisoned water, our governments divert precious financial resources, energy and administrative bandwidth toward fighting a ghost. Billions allocated to renewable energy transition in poor countries translates into delayed investment in wastewater treatment, sanitation systems and waste management technology.
- The climate scare is a luxury adventure for the rich. For most, the fight is for clean water, breathable air and the dignity of a life free from filth.
- The abstract, unscientific, and profitable carbon targets tailor-made for multi-billion-dollar corporations is not going to save the Global South from the suffocating effect of real pollution.
- The longer developing nations remain entranced by climate virtue signalling, the longer they defer the genuine environmental remediation their populations deserve.

Real Environmental Crisis Is Not Climate Change - CO_2 ...

11) What are the negative implications of pursuing a Carbon Neutral policy?

Conventional Climate Science Threatens Civilization Vijay Jayaraj.

- Practitioners of the scientific method – from the 17th century's Galileo to 1965's winner of the Nobel Prize in Physics, Richard Feynman – would consider today's climate research an embarrassment, shaped by uncritical orthodoxy rather than genuine hypothesis testing.
- Classical science welcomes skepticism. It thrives in an environment where debate and revision are encouraged. Today's climate conformists declare the debate "settled" and label those with questions as deniers, effectively outlawing the skepticism that drives scientific progress. Plenty of 21st century scientists have objected to this travesty. Dr. Matthew Wielicki, formerly of the University of Alabama, put it bluntly: "Science should be self-correcting. Climate science isn't. It's self-preserving."
- Dr. Richard Lindzen of the Massachusetts Institute of Technology notes that climate dogma has little to do with evidence: "The narrative is a quasi-religious movement predicated on an absurd scientific narrative.". In essence, modern climate science has been transformed into a political apparatus dominated by campaign-style advocacy, subverting the foundational principles of evidence-based inquiry.
- Climate cultists treat every warming or cooling event as anthropogenic, ignoring millennia of natural variation. "While substantial concern has been expressed that emissions may cause significant climate change, measured or reconstructed temperature records indicate that 20th- and 21st-century climate changes are neither exceptional nor persistent, and the historical and geological records show many periods warmer than today," say scientists.

Conventional Climate Science Threatens Civilization Vijay Jayaraj here.

11) What are the negative implications of pursuing a Carbon Neutral policy?

Conventional Climate Science Threatens Civilization Vijay Jayaraj.

- Gregory Wrightstone, geologist and best-selling author of "A Very Convenient Warming," says that the longer geological record reveals numerous epochs with much higher temperatures and levels of atmospheric CO_2, all predating the influence of modern human activity. Wrightstone rejects descriptions of current conditions as dangerous, saying that "Earth is growing greener, and temperature-related deaths are declining." The evidence indicates the planet is not imperiled but flourishing.
- Deaths from natural disasters are at historic lows, life expectancy continues to climb, and global crop yields in both advanced and developing economies are at record highs. Rising atmospheric CO_2 is associated with improved plant growth, not planetary degradation.
- The much-hyped "disappearing islands" of the Pacific continue to exist. Many atolls have grown in size due to coral and sediment accumulation. Arctic sea ice, too, has refused to vanish; the 2025 minimum extent is nearly half a million square kilometers larger than 2007.
- Yet none of these realities make it into school textbooks or U.N. briefings. The crisis narrative is perpetuated to sustain a trillion-dollar "green" industry dependent on fear, political support and publicly financed subsidies. Error-riddled computer models that back doomsday predictions violate core tenets of scientific methodology. When tested against known outcomes, they routinely fail.

Conventional Climate Science Threatens Civilization Vijay Jayaraj here.

11) What are the negative implications of pursuing a Carbon Neutral policy?

Conventional Climate Science Threatens Civilization Vijay Jayaraj.

- In 2014, Dr. Roy Spencer compared real-world satellite data with over 90 climate models. Nearly all the models exaggerated warming. Spencer summarized the absurdity: "If 95% of your models disagree with observations, the models are wrong – not reality."
- Dr. William Happer, a physicist at Princeton University notes: "Observations anchor our understanding and weed out the theories that do not work. This has been the scientific method for more than 300 years … computer models are not meant to replace theory and observation and to serve as an authority of their own."
- Yet these models drive the global policy agenda. The insistence on short time frames and cherry-picked data appear to support catastrophic scenarios; long-term geological records contradict them. Steve Milloy, author of JunkScience.com, described the phenomenon perfectly: "Climate science has become a political enterprise. The conclusion comes first; the data are adjusted later."
- Science belongs to critical thinkers, not committees. The climate establishment will collapse as its funding dries up or the public stops believing its prophets. Reality will always win, but the longer the struggle, the higher the human cost of irrational policies.
- Reason, empirical investigation and intellectual freedom have been undermined by a politically charged climate movement, which is a threat to science and civilization itself.

Conventional Climate Science Threatens Civilization Vijay Jayaraj here.

The climate cult's dissolution is inevitable Vijay Jayaraj

Real Environmental Crisis Is Not Climate Change - CO_2 Coalition

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant

There are significant direct and indirect costs, plus safety concerns

- Costs to move home heating and cooking to electric from oil or gas
- Costs to install electric charging stations across the country
- Costs for significantly increased electricity supply and distribution

Lord Hammond, former chancellor, states that the true costs of about £1 trillion for the UK to go "Carbon Neutral" and the consequence of slower-rising living standards

https://www.telegraph.co.uk/politics/2023/07/29/tory-pms-systematically-dishonest-1-trillion-cost-net-zero/;

https://driving.ca/column/motor-mouth/scary-putting-out-ev-fire-firefighting-battery-electric-vehicle

- Ross Clark shows the devastating impact of pursuing net-zero Book: Net Zero Ross Clark
- There are significant International group costs and abuses https://www.realclearenergy.org/articles/2025/01/05/the_climate_agendas_march_through_the_institutions_can_it_be_stopped_1082512.html
- Electric vehicle and battery safety concerns also need to be addressed
- U.S. shipping and navigation services company Matson announced new policies that halts all electric vehicle shipments due to the fire risk posed by lithium-ion batteries.
- https://hotair.com/tree-hugging-sister/2024/05/24/the-lithium-ion-battery-energy-storage-facility-blaze-you-hadnt-heard-aboutis-still-burning-n3788991
- Solyndra: A Case Study in Green Energy, Cronyism, and the Failure of Central Planning
- https://www.yahoo.com/news/11-years-celebrated-opening-massive-000749414.html
- There are significant challenges to achieving net zero in a reasonable time. https://youtu.be/nLm1_a_JF6Q?si=IvLFVFIhnqI4IYSI

Trucking capacity is also an issue



2 electric car collision



11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant

Excerpt from Canary in a Climate World: Climate Realism vs. the Net Zero Myth

- *The climate alarmism of our time is a malignant alliance of ignorant fanaticism and opportunism: the lust for power, fame and wealth. Like all fanatical movements, climate alarmism is doing great collateral damage, most notably to the reputation of many professionals in science. Generous research grants from governments and private foundations have created a new discipline of 'climate science'. Traditional, rigorous disciplines like atmospheric physics, atmospheric chemistry, meteorology or paleontology were quick to cash in by renaming themselves with some variant of 'Centre for Saving the Planet'. They were generously rewarded with research grants, new laboratories, professorships, elections to learned societies, prizes and other tokens of gratitude.*
- *This largess came with strings. If your research did not show that the planet needed to be saved, you would be expelled from the elect. Many credible scientists made no public mention of doubts they had about the party line. But a few refused to accept this new 'science by consensus' and remained faithful to the traditional criterion: the validity of a scientific theory is how well its predictions agree with all available observations, and how successfully it predicts previously unobserved phenomena. In the laconically accurate words of Karl Popper: 'One can sum up all this by saying that the criterion of the scientific status of a theory is its falsifiability, or refutability, or testability.' By this criterion, climate alarmism is not a scientific theory, since it has made many alarming predictions and none have turned out to be true. Rather climate alarmism is more like astrology or the cargo-cult science described so graphically by Richard Feynman.*
- *Climate alarmism is centred on the dogma that 'carbon dioxide is the control knob of Earth's climate'. This dogma is false, but supported because of frenzied propaganda for over half a century…*
- *Many of the songsters of this collection, especially those from academia, will recall being the targets of fanatical hatred, similar to that experienced by Bruno and Galileo, for suggesting that carbon dioxide is not the control knob of climate.*

Book: Canary in a Climate World: Climate Realism vs. the Net Zero Myth

Weekly Climate and Energy News Roundup #694 - Watts Up With That?

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant

There are significant direct and indirect costs, plus safety concerns

- *CO_2 is a greenhouse gas, that is, a gas that is nearly transparent to shortwave, visible and near-visible sunlight, but partially opaque to the longwave infrared radiation that dumps excess heat from the Earth into the cold darkness of outer space. Greenhouse gases do little to hinder the heating of the Earth by sunlight, but they readily absorb and re-emit thermal infrared radiation, making it harder for Earth to release thermal radiation directly from its surface to space, and requiring higher temperatures to get rid of the heat than would otherwise be needed if there were no greenhouse gases in the atmosphere.*
- *But the most important greenhouse gas is water vapor, H_2O, not CO_2. When the effects of clouds are included, water in all of its phases, vapor, liquid and solid, has a much bigger influence on radiative transfer of heat than CO_2. And radiative transfer is only part of what controls Earth's climate. Huge amounts of heat are transported by air and ocean currents from the tropics, where maximum sunlight is absorbed, to polar regions, where much more thermal radiation is released to space than is absorbed from the Sun.*
- *In fact, the climate of the Earth has no single control knob, and all theoretical and empirical evidence points to CO_2 being a relatively unimportant factor. The most important influences on Earth's climate are the Sun and cloud cover. Neither the Sun nor clouds are understood as well as they should be. What understanding we have has been set back at least 50 years by the manic focus on greenhouse gases.*
- *A particular irony of the demonization of CO_2 is that increasing atmospheric concentrations of CO_2 are benefitting life on Earth. Satellite measurements show a clear greening of Earth, especially of arid areas, due to the modest increases in CO_2 that have already occurred. CO_2 really is plant food, one of the three key ingredients of photosynthesis: sunlight, water molecules, H_2O, and CO_2 molecules. More CO_2 has contributed to the agricultural abundance that has characterized the past 50 years.*

Book: Canary in a Climate World: Climate Realism vs. the Net Zero Myth

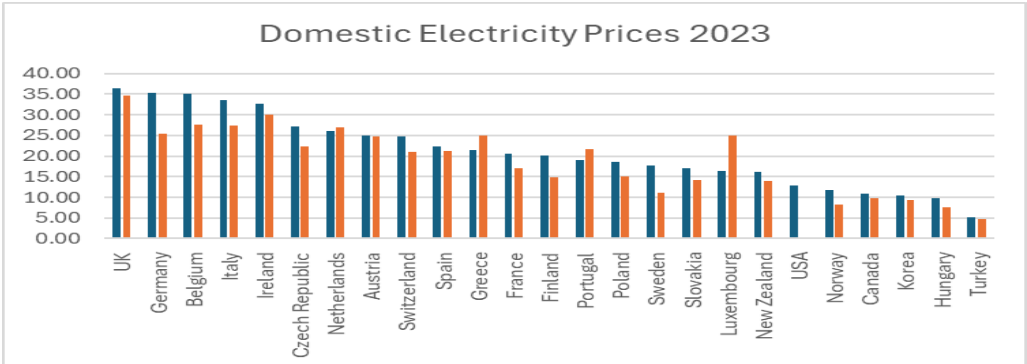
Weekly Climate and Energy News Roundup #694 - Watts Up With That?

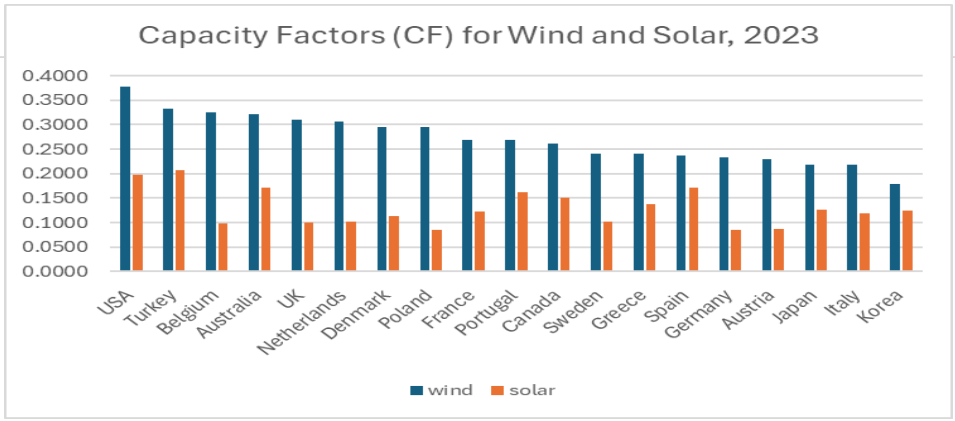
11) What are the negative implications of pursuing a Carbon Neutral policy?

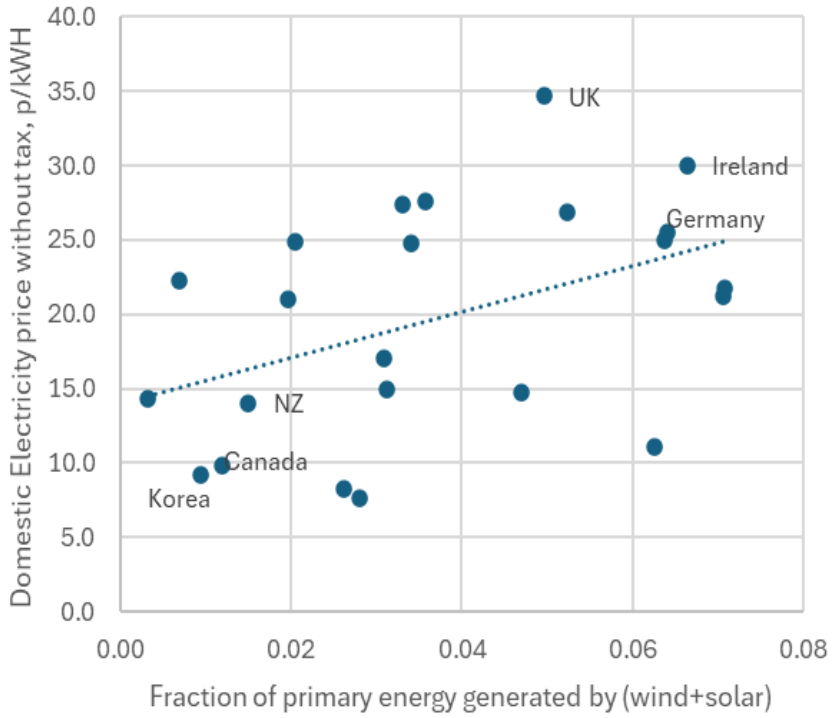
Higher use of low-efficiency, variable access wind and solar yields higher consumer price for electric energy

3) There are significant direct and indirect costs plus safety concerns

- **The UK has a very high domestic consumer electricity price (DCEP)**







data for 2023 from DESNZ, UK (**https://www.gov.uk/government/collections/international-energy-price-comparisons**)for electricity prices and the Statistical Review of World Energy (**https://www.energyinst.org/statistical-review**) for electricity generation, wind and solar capacity installed

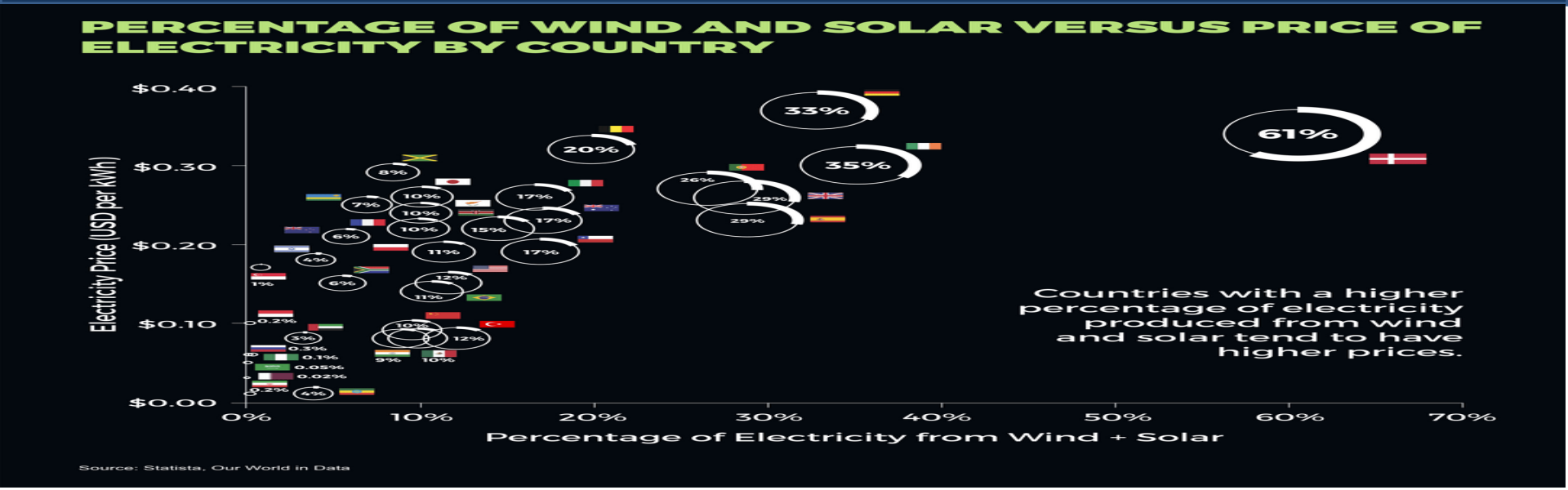
Ed Miliband's net zero plans branded 'fantasy' in damning letter from top scientist

Physics First Energy Policy - by David Turver

Energy Price Cap Goes Up Again – and No, it's Not Because of the Price of Gas – The Daily Sceptic

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant



The Initial Investment Liz McKinley B.Sc. Environmental Science
Transitioning to green energy often requires a significant upfront investment. For instance, the cost of solar panels can range from $15,000 to $25,000 for an average home, depending on the system size and installation costs.
While government incentives and tax credits can alleviate some of this burden, many households still face a financial hurdle. Additionally, wind turbines and geothermal systems also entail high initial costs, which can deter potential adopters. This initial financial barrier can lead to a slower adoption rate of green technologies, especially in lower-income communities. The reality is that while green energy promises long-term savings, the short-term costs can be daunting.

Bjorn Borg https://www.youtube.com/watch?v=RPNqYpT-P2M
The actual cost of the decarbonization agenda is significant Vijay Jayaraj here.
Belgian Wind Project Vetoed; Global Total Of Renewable Rejections Hits 1,104
The Tide is Turning Decisively Against Net Zero
According to *Climate Change Business Journal,* the global climate change business was a US$3.4 trillion/year global industry in 2025
https://ebionline.org/product/climate-change-business-journal-volume-xviii-numbers-7-8-3-q3-2025-global-climate-change-industry/?utm_source=chatgpt.com#:~:text=the%20%243%2C400%20billion%20climate%20change%20industry

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant

There are significant direct and indirect costs plus safety concerns

"Climatism" is a luxury belief (ideas and opinions that can confer status on the upper class while often inflicting costs and health concerns on the lower class

- Electricity poverty affects some 3.7 billion people today. 47% of people live in electricity poverty (source Our World in Data)
- Electricity frees women from manual water pumps, open stove and washtub labour
- Household air pollution caused by indoor, low-quality cooking fuels (such as wood, crop waste, charcoal, coal and dung) and kerosene in open fires and inefficient stoves kills 3.2 million people each year (mostly women and girls who do the cooking). This could be prevented if developing countries had enough natural gas, propane and butane stoves
- **California EV Rule Turmoil** Toyota, the World's largest automaker, indicated that the proposed 2026 California auto emission standards requiring 35 percent of new vehicles to be fully electrified were impossible for them to meet.
- There are efforts to criminalize Free Speech on this topic

https://www.cnbc.com/2024/11/08/toyota-california-ev-mandates-impossible.html Source: Robert Bryce

https://financialpost.com/opinion/climate-policy-turning-point

Activists call for climate skepticism to be outlawed, and experts say it shows growing desperation | Just The News

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant

What about Earth's Threatened and Endangered People?

- In the world, most climate-focused countries and states have the most pseudo-clean energy mandates and subsidies … the highest electricity prices … the highest prices for goods and services. They're destroying entire industries, leaving thousands unemployed. They have the technologies to utilize their abundant carbon and nuclear energy, but ruling elites don't want citizens to enjoy jobs and living standards based on that energy. Each year thousands die needlessly during frigid winters and summer heatwaves because families cannot afford or obtain proper heating and air conditioning.
- When wind turbines, solar panels, transformers, transmission lines and backup batteries or power plants are included, wind and solar energy require *dozens of times more raw materials* (and thus mining and pollution) and *hundreds of times more land* than just building a few nuclear or combined-cycle gas plants close to where electricity is needed.
- For families in poor nations, the price tag is infinitely higher. Worldwide, 730 million people still have *no access* to electricity. Billions more have minimal, sporadic access. In Sub-Saharan Africa, 600 million have no electricity; hundreds of millions more have minimal, unpredictable electricity from small wind turbines and solar panels here and there.
- Developing countries should avoid doing what rich nations are doing *now that they are rich*. Instead, they should do what rich nations did *to become rich*. Remember that wealthy industrialized countries created institutions to finance the power generation and factories that created jobs, middle classes, health, prosperity, new industries … and taxes to pay for more.
- They must chart their own destiny and rightful places among Earth's prosperous people.

What about Earth's Threatened and Endangered PEOPLE?

11) What are the negative implications of pursuing a Carbon Neutral policy?

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- **THE NATIONS THAT DOMINATE THE GLOBAL ECONOMY**…will be those that adopt sane energy policies. Unfortunately, that group does not include the U.S. Our government is determined to drive the coal industry, and coal-fired power plants, out of business, with natural gas next on the list.
- *As the United States continues to rapidly retire its dwindling fleet of coal-fired power plants in the name of fighting climate change, the world's two most populous nations, China and India, continue efforts to dramatically expand their own coal usage. These two starkly divergent approaches inevitably lead to questions about which philosophy will prevail at the end of the day, and whether there is actually any "energy transition" happening at all.*

- *Like many other developing nations, India and China have been rational actors when it comes to fulfilling the energy needs of their societies, choosing factors like affordability and reliability over the Western norm of policymaker virtue signaling. This is a stark contrast to the approach in the US, which has been working overtime to kill the nation's once-dominant coal industry in its feverish pursuit of often arbitrary and irrational climate goals. This rapid dismantling of US coal recently led one commissioner at the Federal Energy Regulatory Commission (FERC), Mark Christie, to question, "Are the lights going to stay on?"*

- You can't keep the electricity on 24/7 with power sources that work only occasionally and unpredictably. No one has ever done it, even on a small scale. Nowhere on Earth is there even a demonstration project to show how a town or village can run itself on wind and solar energy, plus batteries.

11) What are the negative implications of pursuing a Carbon Neutral policy?

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- *[In the U.S.], "Announced coal retirements total 44,700 MW over the next 4 years and 83,400 MW during the next 6 years. "*That is a problem because we have no plan to replace that dispatchable capacity:

- *Given that the permitting, funding, construction and starting-up of dispatchable replacement capacity can take 7-10 years under ideal conditions in the US, consideration of that 6-year time frame becomes especially crucial. Yet, as the report notes, no one in the Biden administration appears to be attempting to address the situation in any real way despite consistent warnings since 2019 of a looming shortage of reliable generating capacity on the grid.*

- *China, meanwhile, continues to permit **1 to 2 new coal-fired power plants every week**, and now has 243 GW of new capacity permitted and under construction, according to the Center for Research on Energy and Clean Air.*
- So China alone has 243 gigawatts of new coal capacity already coming online, while we are planning to retire a little under 45 gigawatts. And that is just what they are currently building. There are many more coal-fired power plants where those came from, as coal is plentiful. And India has almost doubled its coal-fired power production, with much more yet to come. There are other governments, too, that are not crazy.

- All of which is to say that anyone who thinks we are somehow helping the climate with our energy policies is deluded. We are simply condemning the U.S. to second-class power status, and our citizens (except for our virtue-signaling elites, of course), to a sharply declining, ultimately third-world, standard of living.

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: Recent Country actions

UK

Reform UK will make 8 major policy changes

Britain warned of tight energy supplies this winter

News about Uk Conservative Party Position On Carbon Neutral Poli…

Kathryn Porter on the Lies of the Green Zealots

https://www.youtube.com/watch?v=8jY8k8iMrOE Why Net Zero Is Failing Britain Kathryn Porter, Lord Frost

The Hill published my article Britain's net-zero scheme is being derailed by opposition to solar and wind projects

Tilak's Substack | Tilak Doshi | Substack **Households hit with higher bills in £1bn 'racket' that sees wind farms paid to turn off power | The Independent**

https://dieterhelm.co.uk/energy-climate/british-energy-policy-not-cheap-not-home-grown-and-not-secure/

The Coming UK Energy Disaster – YouTube

Prime Minister Keir Starmer is **reportedly preparing** to delay or dilute key green commitments to curb the voter revolt

The **problem** with net zero konstantin kisin.

"The expansion of large-scale solar farming in the United Kingdom is a policy built on selective arithmetic and seasonal blindness. It counts summer megawatts without accounting for winter silence. It presents installation costs without incorporating maintenance, degradation, replacement and disposal. It treats the loss of productive farmland as an acceptable externality rather than an irreversible cost. And now, as resistance to ground-mounted solar grows, proponents are turning to Britain's lakes and reservoirs — proposing to extend a poorly understood technology into water bodies whose ecological integrity serves far more important purposes than energy generation." *Sam Lowry*

Net Zero and the so-called climate consensus is collapsing! UK update

Quango costs balloon amid Miliband net zero push - The Telegraph

Italy

The Italian government approved ban on installation of new ground- mounted solar panes on productive farmlands.

Numerous country actions **The climate cult's dissolution is inevitable** Vijay Jayaraj

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: Recent Country actions

USA

In his first 200 days, Trump has overturned Biden climate agenda at breakneck speed, report shows | Just The News

https://lists.theepochtimes.com/links/lnGtCLkk1/HhryKHE6n/wjB20Nb9veRV/5MSanGiq2F

The Science and Environmental Policy Project (SEPP)

The Tide is Turning Decisively Against Net Zero https://youtu.be/xaPrKzIkWrQ

President Trump [SEE HERE] "Withdrawing the United States from International Organizations including the UN Framework Convention on Climate Change

Bill Gates changes views on Climate Change Prediction of Climate Catastrophe Loses Some of Its Strongest …

Donald Trump is pulling out of the UN Framework Convention on Climate Change, the IPCC and ending support and funding for net-zero campaigns and related climate bodies. pic.x.com/XOvd6IEYk4

2026 02 10 WSJ Trump to Repeal Landmark Climate Finding in Huge Regulatory Rollback.pdf

The 2025 Department of Energy's "*A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate*

EPA Retires Its Crystal Ball, Lets America Exhale (Carbon Included) Repeal of the endangerment finding

India Helps US Repair 'Green' Wreckage - CO2 Coalition

Australia

The Liberal Party has **abandoned** the promise of net-zero in 2050, and will instead prioritize lower energy prices.

General CO_2 reductions by countries https://financialpost.com/opinion/uk-net-zero-revolt-wake-up-call

Across the world, politicians are facing up to the high costs and tiny climate returns of raising energy prices. Net zero is on its way out
https://financialpost.com/opinion/uk-net-zero-revolt-wake-up-call

Canada

From the Strait of Hormuz to Cuba, Net Zero is Dying – Mark Carney …

General CO_2 reductions by countries https://financialpost.com/opinion/uk-net-zero-revolt-wake-up-call

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: Recent Country actions

EU

The delusional EU believes it can wield carbon tariffs as weapons.https://tilakdoshi.substack.com/p/europes-days-of-carbon-colonialism Trump's UN speech Sept 23, 2025
https://www.facebook.com/share/r/1CjCaLJuja/?mibextid=wwXIfr
More from Trump's UN speech Sept 23, 2025 https://www.facebook.com/share/r/1CjCaLJuja/?mibextid=wwXIfr
News about Sweden's Pension Disaster Rings Alarm Bells For … Sweden's 'new green industrial revolution' is faltering
The EU is rolling back environmental laws. Its climate promises for 2040 have already been relaxed

Spain

April 28, 2025: Spain suffers a major electricity blackout, raising solar power concerns

With the major source of power coming from solar panels, Spain and Portugal suffered a major electricity blackout. demonstrating the need for reliable electricity, not solar power Spain at risk of fresh net zero blackouts
General CO_2 reductions by countries https://financialpost.com/opinion/uk-net-zero-revolt-wake-up-call

China and India

Trump's Withdrawal From Collapsing Climate Narrative

Norway

Norway Avoids 'Green' Energy Quicksand - Vijay Jayaraj

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: Recent Country actions

Japan

In August 2025, Mitsubishi Corporation prepared to withdraw from 3Japanese offshore wind projects off the coasts of Chiba and Akita. American-Japanese Pact Signals Ascent of Energy Realism **Read article here.**: The agreement abandons more than a decade of energy uncertainty marked by unpredictable supply chains, unrealistic net-zero pledges and overreliance on unreliable wind and solar energy. American-Japanese Pact Signals Ascent of Energy Realism - CO_2 Coalition Japan's new Prime Minister Sanae Takaichi **is prioritizing nuclear revival** for energy security over aggressive development of renewables.

Germany

Germany's renewable energy transition has become a policy failure, with costs spiralling. By 2020, Germany had spent **over €500 billion** on its green agenda, transforming it into one of the most expensive electricity markets in the world. **Household electricity prices** are now among the highest in Europe and the world. Energy-intensive industries are fleeing Germany. **GDP shrinking in real terms and rapid de-industrialisation**

Germany's far-right AfD, now leading national polls, **rails against "elitist" green burdens** and vows to halt decarbonization

South Korea, Asia

South Korea's Developing Net Zero Debacle - CO_2 Coalition The consequences will be lost jobs and shuttered factories

ASEAN Nations Return to Fossil Fuels, Back Away From Net Zero Plans

Corporations.

Corporations that sold the world on their green credentials are also retreating,

General CO_2 reductions by countries https://financialpost.com/opinion/uk-net-zero-revolt-wake-up-call

Climate Change Weekly # 578— Countries and

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: Recent USA action

Repeal of Endangerment Finding Statement of Gregory Wrightstone

- The repeal of the Environmental Protection Agency's Endangerment Finding by Administrator Lee Zeldin is cause for celebration. The basis of this wrongheaded climate regulation put ideology ahead of science. The rule has been an impediment to economic growth, a cause of rising energy costs and a destroyer of many thousands of jobs at power plants, coal mines and manufacturing facilities.
- Since the 2009 enactment of the Endangerment Finding, its scientific underpinnings have been found to be even weaker than previously believed and contradicted by empirical data, peer-reviewed studies and research. Relying on false computer models and pseudoscience, the Obama EPA erroneously claimed that carbon dioxide and other so-called greenhouse gases threatened to overheat the Earth. The agency disregarded complexities of climate dynamics – from solar cycles to clouds to ocean currents. Also ignored were a mountain of real-world data accumulated over decades and centuries that disprove the finding that the plant food carbon dioxide is a pollutant.
- Rather than an Earth spiraling into man-made climate crises, the facts reveal that ecosystems are thriving and humanity is benefiting from modest warming and more CO_2. Forests are expanding, deserts are shrinking, agricultural productivity is expanding and drought is declining. In short, there is no climate crisis and carbon dioxide is a beneficial gas necessary for life.

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: Recent USA action

A US court case upends climate change policy

- At the centre of the case is the CO_2 Coalition, a U.S.-based nonprofit group of more than 200 scientists and researchers. The organization focuses on carbon dioxide's role in plant growth, agriculture and ecosystems. It argues that higher CO_2 levels contribute to increased plant productivity and that carbon emissions produce global greening far more than global warming. That position was key in the decision of the case.
- On March 20, the coalition applied for intervenor status, which would allow it to present evidence directly to the court. Executive director Gregory Wrightstone said the scientific basis for the endangerment finding is "weaker than previously believed and contradicted by empirical data, peer-reviewed studies and research." He argues carbon dioxide is not a toxin and that rising CO_2 levels have produced measurable environmental benefits.

https://frontiercentre.org/2026/03/28/a-u-s-court-case-could-upend-climage-change-policy/

Coalition In the News in Washington DC

- William Happer, a professor emeritus of physics at Princeton University who has argued that global warming is good for humanity, gave a slide presentation at the Heartland Institute's conference on climate change in Washington. The conference near the White House drew hundreds of people who reject the scientific consensus on climate change.
- He dismissed concerns about rising carbon dioxide levels in the atmosphere.

Read the post: https://www.staradvertiser.com/2026/04/09/breaking-news/climate-change-denial-sees-a-resurgence-in-trumps-washington/

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: USA court action RCP8.5-SSP5



11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: USA court action RCP8.5-SSP5

The extreme "RCP8.5-SSP5" climate scenario is officially scrapped Lars Schernikau

"RCP8.5-SSP5 and others are embedded in the policies and regulations of most of the world's largest economies, found across the world's most important multilateral institutions, and used in the climate stress tests that govern hundreds of billions of dollars in bank capital. It cannot be overstated how significant this change is — the now-obsolete extreme scenarios underpin the work of the Intergovernmental Panel on Climate Change (IPCC), tens of thousands of research papers, government policy and regulation around the world, financial standards for the world's banks, along with much of the media coverage of climate change, from which most people learn about climate science and policy." Prof Pielke, May 2026

- The entire attempted "energy transition" towards a largely wind and solar + storage-based world would not be upon us if it was not for a serious concern about the negative impact on Earth climate caused by CO_2 emissions from fossil fuels
- For that purpose, an array of climate models have been set up to foresee the future, usually in the year 2100 using a host of assumptions that are in dispute (such as climate sensitivity).
- Those climate models are then "fed" with scenarios such as population growth, coal consumption, economic parameters, etc
- RCP8.5-SSP5 was the most extreme climate scenario, which would be ok if it were not the basis for the majority, or tens of thousands of scientific research papers and consultant reports
- Just to give you an example, RCP8.5 assumed 6x increase in PER CAPITA coal consumption by 2100 and assumed unrealistic population increases
- The use of RCP8.5 in "science", here from a nature peer-reviewed study itself; "*We analyse fisheries and aquatic conservation papers published from 2015 to 2022 in major journals, and find that RCP8.5/SSP5-8.5 are the most commonly used scenarios*"

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: USA court action RCP8.5-SSP5

The extreme "RCP8.5-SSP5" climate scenario is officially scrapped Lars Schernikau

No one would pursue grid-scale wind and solar in the absence of government mandates or incentives. Those policies were enabled and driven largely by concerns about drastic and irreversible human-caused climate change. This court decision should reduce this concern.

"The Future isn't what it used to be"
What do climate models use as input?

no dispute that IPCC uses unrealistic "Baseline"

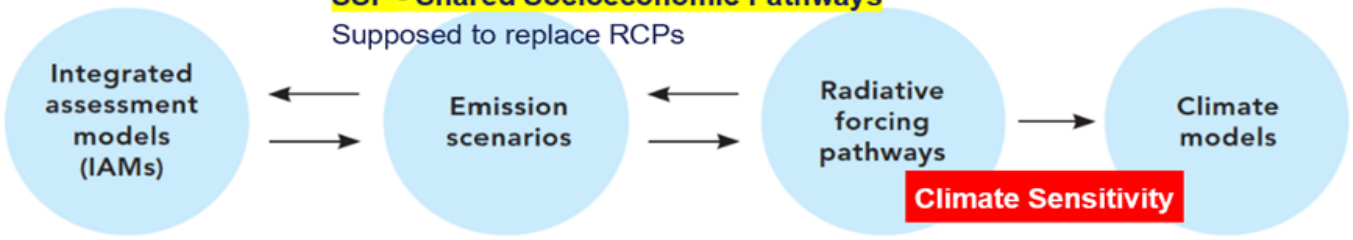


Socioeconomic variables

- economic growth
- population growth,
- energy consumption,
- changes in land use (farming, grazing, forestry, etc)
- particulate pollution
- And much more

RCP - Representative Pathways
(end of century radiative forcing)

SSP - Shared Socioeconomic Pathways
Supposed to replace RCPs



IPCC Baseline: 2021 6th Assessment

- RCP8.5: 2100 coal consumption per capita up 6x from today
- SSP5-8.5: coal surpass oil and EVs as dominant fuel for cars by 2100
- SSP1 (Green Road): global coal use doesn't fall below current until after 2080
- By 2100: ~1.200 ppm CO_2 (2,8x of today)

RCP8.5 and its progeny SSP5-8.5 represent an obsolete and extreme vision of a coal-dominant future

Source: Schernikau based on Pielke, Roger, and Justin Ritchie. "Pielke: How Climate Scenarios Lost Touch With Reality," July 2021. https://issues.org/climate-change-scenarios-lost-touch-reality-pielke-ritchie/.

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant

Coal energy supports USA through recent extreme cold snap

- *The North American Electric Reliability Corp. warned in November that "extreme winter conditions extending over a wide area could result in electricity supply shortfalls." That's what happened. Frigid temperatures supercharged demand in areas where Americans use electricity for heating, especially in Texas.*
- *In the Northeast and Midwest, where more people get heat from natural gas, less fuel was available for power plants. Add weather-caused plant outages, and you have all the ingredients for a grid emergency. Grid operators, the utilities and the Trump Energy Department had to pull out all stops to keep the lights and heat on for tens of millions of Americans.*
- *Utilities in the Midwest on Saturday directed customers to lower thermostats, unplug "nonessential appliances," and reduce temperature settings on electric water heaters. Hope you enjoy lukewarm showers and curling up in a heavy coat with a book.*
- *The Energy Department also waived emissions rules so fossil-fuel plants could run at maximum capacity. Early Sunday morning, coal accounted for some 40% of power in the Midwest's MISO grid, 24% in the eastern U.S. PJM Interconnection and 18% in Texas, with most of the rest coming from natural gas and nuclear.*

Jan 2026 Wall Street Journal

11) What are the negative implications of pursuing a Carbon Neutral policy?

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Coal energy supports USA through recent extreme cold snap

- *New York's blockade on gas pipelines has constrained the fuel supply for power plants across New England. Power plants in the region had to resort to burning oil, which accounted for 40% of electricity at times of peak demand. Get this—the region generated more power from burning wood and trash than from wind power.*
- *The climate crowd claims that solar, wind and batteries can replace fossil fuels, but those sources contributed little power in most places over the weekend. Wind and solar aren't reliable during inclement weather. Batteries can discharge power only for a few hours at a time, which doesn't much help during a storm that stretches for a day or two.*
- *The deep-freeze energy scare underscores why the Energy Department issued emergency orders in recent months to "stop the political closure of coal plants" in the Midwest. The grid needs all the coal power it can get when temperatures plunge or skyrocket. Environmental groups have challenged the department's orders. Is the goal to reduce carbon emissions by making Americans freeze?...*

Jan 2026 Wall Street Journal

11) What are the negative implications of pursuing a Carbon Neutral policy?

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Europe is waking up to the follies of 'green energy'

- JPMorgan Chase CEO Jamie Dimon says that Europe has gone from 90 percent of America's GDP to 65 percent.
- The Wall Street Journal's front-page story — "Europe's Green Energy Rush Slashed Emissions – and Crippled the Economy". "High-profile, net-zero projects are being postponed or scrapped," impairing Europe's ability to attract artificial intelligence and other vital economic drivers and job creators. The "green" energy shift is killing jobs and inflicting cost-of-living shocks.
- Germany now has the developed world's highest domestic electricity prices. Britain has its highest industrial rates, and Italy isn't far behind. Average prices for Europe's heavy industries are twice those in the U.S. Price volatility has risen as the share of renewable electricity generation has increased to 54 percent.
- Although wind and sunlight are free, harnessing them requires major infrastructure investments, including battery storage for windless and sunless periods. These additional costs are typically hidden behind subsidies and carbon taxes, but the net result is much higher electricity prices, blackouts, and economic disruption.

Europe is waking up to the follies of 'green energy' **CRAIG RUCKER, OPINION CONTRIBUTOR – THE HILL 01/08/26**

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant

Europe is waking up to the follies of 'green energy'

- Glass, steel, aluminum, petrochemical, and automobile manufacturing, along with other energy-intensive companies and industries, are all shrinking or being exported from Europe to the U.S. or Asia.
- Thousands of high-paying jobs are disappearing. Entire cities and regions are cascading into economic chaos. Families cannot afford proper food and heat. Elderly people often resort to heating only one room or one floor to reduce heating costs. Welfare and cold-weather support programs are strained to the limit.
- The End Fuel Poverty Coalition estimates that in Britain, living in cold homes caused nearly 5,000 excess deaths during the 2022-2023 winter. People died because they were too cold and weak to survive illnesses, chronic diseases, or poor health.

Europe is waking up to the follies of 'green energy' **CRAIG RUCKER, OPINION CONTRIBUTOR – THE HILL 01/08/26**

Net zero is killing energy sector, warns union – PressReader

Net Zero is economic suicide. It must go. | Konstantin Kisin | Facebook

However,"the EU continues to lock itself into ever more ambitious targets (90% CO_2 reduction by 2040 compared to 1990), while eroding its industrial base, deepening its dependence on China, and widening the gap between rhetoric and the reality of global emissions."

America's Irreversible Goodbye to Climate Governance - CO_2 Coalition . *Dr. Samuele Furfari is a professor of energy geopolitics in Brussels and London, a former senior official with the European Commission's Directorate-General for Energy*

The Strait of Hormuz's Bitter Lesson for the European Union - CO_2 Coalition

https://x.com/ABridgen/status/2017525010773029350 The high cost of Net Zero

11) What are the negative implications of pursuing a Carbon Neutral policy? Examples of the reversal of CO2 emergency initiatives

- Are early warning fears about rising temperatures misjudged? We know the planet has almost always been warmer than today. Has the initial concerns about the future been overstated. Are we now having to face a takeover by globalism? Has the climate become political ideology,
- Trump has aggressively and comprehensively dismissed climate change as a problem.
- Canada's Prime Minister Mark Carney, once one of the world's most vocal climate advocates, is now repealing his country's climate policies.
- Bill Gates circulated a memo criticizing the climate movement shifting much of his money back to public health — just four years after publishing "How to Avoid a Climate Disaster."
- Ford pulled back sharply from its EV ambitions, becoming a case study in the risks of betting on whipsawing government policies.
- Former U.K. Prime Minister Tony Blair also issued a memo questioning the political and economic wisdom of pursuing "net zero" policies as designed.
- Europe scaled back its gasoline car ban and softened climate disclosure rules, a retreat the New York Times headlined: "Europe Begins to Tiptoe Away From Key Climate Policies."
- The International Energy Agency quietly restored a more conservative base-case energy scenario that it had dropped in 2020.
- **Even Hollywood is** moving on — swapping climate angst as shown in 2021's "Don't Look Up and 2023's "Extrapolations" miniseries, as seen in the TV show "Landman."

What to know about the world's great climate collapse Amy Harderan 13, 2026

Europe is waking up to the follies of 'green energy' **CRAIG RUCKER, OPINION CONTRIBUTOR – THE HILL 01/08/26**

this article about UK elite's collapsing consensus on climate change.

Peter Clack @PeterDClack

11) What are the negative implications of pursuing a Carbon Neutral policy? Countries and Industries are abandoning or reducing Net-Zero commitments

Industries are abandoning their emission-reduction commitments.

- In the USA, Trump's actions include defunding climate boondoggles across federal agencies, pulling the United States out of the Paris climate agreement, withdrawing the United States from dozens of climate-monitoring and wealth-transfer organizations (most importantly the UN Framework Convention on Climate Change), and rescinding the greenhouse gas endangerment finding.
- Other countries and companies around the globe are also reducing actions related to Net-Zero. Some entities are withdrawing from their climate commitments entirely and reembracing fossil fuels. Others are reducing their emission reduction pledges, cutting funding for wind and solar, pushing out the timeline for net zero, acknowledging the continued necessity of fossil fuels, or some combination of the above.
- For example, the UN IPCC recently had its 64th meeting of the science committee, at which it failed, once again, to set a date for the production of the next IPCC Assessment report. A coalition including Saudi Arabia, Russia, China, India and Kenya and other nations want the timeline extended as they really don't believe climate change poses an "existential threat" to humanity.
- In another example, the German government will allow citizens to use oil and gas to heat their homes again

11) What are the negative implications of pursuing a Carbon Neutral policy? Countries and Industries are abandoning or reducing Net-Zero commitments

Industries are abandoning their emission-reduction commitments.

- Hundreds of banks and other companies began abandoning various UN-sanctioned or -endorsed climate groups setting reporting requirements for carbon dioxide emissions and goals for emission reductions.
- Early in 2025, big tech companies, fearing a lack of energy for their AI hubs and server farms, began to embrace nuclear power, natural gas, and to a lesser extent even coal in some locations. They want whatever is needed to power the burgeoning AI industry and their tech reliably.
- The automobile and power industries have joined the move away from net zero. For example, an article at ***Autoblog*** detailed automobile manufacturers' decisions to scale back dramatically and states: "After years of rapid growth, the electric vehicle boom is hitting turbulence. With demand slowing and incentives fading, at least 18 automakers are now cancelling, delaying, or scaling back EV plans in the U.S., including major brands like Ford, Honda, Nissan, and Volkswagen. …After growing nearly eightfold between 2019 and 2023 [due to tax incentives and mandates], demand for battery-electric vehicles flattened out last year, then took a dive off a cliff after federal tax credits phased out at the end of September."
- Oil companies and utilities are also reducing their emission-reduction goals and ratcheting back investment in the energy transition in 2025.

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: Recent Country actions Adrian Demaid

Companies, particularly in finance, energy, and insurance, have withdrawn from net-zero coalitions and initiatives amid political pressures and strategic shifts.

These exits accelerated after Donald Trump's 2024 re-election, leading to the collapse of groups like the Net-Zero Banking Alliance (NZBA)

Financial Institutions

- Major U.S. banks exited the NZBA in late 2024 and early 2025, including JPMorgan Chase, Citigroup, Bank of America, Morgan Stanley, Wells Fargo, and Goldman Sachs, citing antitrust concerns and policy changes. Asset managers like BlackRock left the Net-Zero Asset Managers initiative, while Munich Re withdrew from multiple net-zero coalitions. UBS also quit the NZBA after delaying its own net-zero targets.

Energy Companies

- Oil and gas firms Shell, Aker BP, and Enbridge left the Science Based Targets initiative (SBTi) expert group, rejecting requirements to halt new fossil fuel developments. BP abandoned accelerated clean energy goals to prioritise oil and gas, and Equinor halved renewable investments while boosting production.

Other Firms

- Over 200 companies, including JBS, United Airlines, Johnson & Johnson, and Unilever, lost SBTi net zero validations after targets expired without renewal. Walmart acknowledged missing its emissions goals, and State Street pulled out of a U.S. net-zero investor group.

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: Recent Country actions Adrian Demaid

- Danish company Ørsted cancelled the Hornsea 4 offshore wind farm project off East Yorkshire, one of the world's largest planned wind farms, citing it was no longer economically viable despite a government contract. This reflects broader challenges like rising raw material prices (steel, copper, aluminium), supply chain bottlenecks, and increased financing costs. This cancellation poses a setback to the UK's ambitious clean energy targets for 2030.
- Swedish company Vattenfall halted a 1.4 GW offshore wind farm near Norfolk in 2023 due to rising costs; the project was later passed to German company RWE.
- Norwegian oil major Equinor pulled out of a 2 GW floating offshore wind farm planned in Australia's Bass Strait and other projects, rejecting feasibility licenses due to uncertainty.
- Dutch energy company Eneco announced it is exiting offshore wind development in the Netherlands, calling construction financially unviable under current market conditions. Eneco highlights the need for higher green electricity prices and government support reforms. In August 2025 in Japan, industrial giant Mitsubishi Corporation announced it was withdrawing from three large offshore projects, started in 2021, with a penalty cost of $135 million.
- This followed Germany announcing that it did not get a single bid in its latest offshore auction. This was Germany's second offshore wind auction round so far this year. Both have been "no subsidy" auctions, and both have been unsuccessful. In this case, not a single offshore wind developer bid for either of the two sites in the German North Sea.

11) What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral" is significant: UK Energy Consultant Kathryn Porter

Madness of Net Zero: Irish Climate Science Forum, March 2025, problems with the net zero goals

- *A proper cost-benefit analysis of net zero, including system costs.*
- *Honest engagement with the public about what changes are feasible and affordable.*
- *Investment in a firm, dispatchable capacity to secure the grid.*
- *A much greater focus on nuclear power as the route to decarbonisation*
- *A shift from speed to resilience: better to go slower and succeed than faster and fail.*
- *We need to abandon the idea that net zero will be fast, cheap, and painless. It won't. But it can be achievable if approached with realism, pragmatism, and an unwavering commitment to system security.*
- *Net zero is not just expensive, regressive and inflationary; it is dangerous when pursued recklessly. The events of 8 January, 28 April, and 29 May are warnings. Warnings that our electricity system is being pushed beyond its limits. Warnings that ideology is being allowed to override engineering. Warnings that people may die if we continue down this path without course correction.*
- *People want a stable grid and realistic transition pathways. People cannot afford the transformation costs*
- *Intermittent renewables are inefficient in both their use of capital and natural resources*

Reference: www.SEPP.org 2025-06-28 **Irish Climate Science Forum**

Kathryn Porter on the Lies of the Green Zealots plus recent report on her country's electrification strategy

Angela Wheeler **https://youtu.be/-QAsl5pGqJs Concerns with scientific education practises in schools today**

Anika Sweetland, Member **https://youtu.be/L4Blgeg7h9c Fear and education system concerns**

Britain's Skyrocketing Green Energy Prices are Forcing Internet Providers to Ration Access - Watts Up With That?

Britain's Industrial Collapse: Andrew Bridgen Reveals The Truth https://youtu.be/Pj2yW8a5w-8

Bank of England warns Net Zero is slowing growth Bank of England warns Net Zero is slowing growth

11) What are the negative implications of pursuing a Carbon Neutral policy?

The Truth About the COPs 30 years of illusions

- COP serves as the main decision-making body for the UN Framework for Climate Change (UNFCCC), an international environmental treaty that was established in 1994 to create a mechanism for climate negotiations and for the 2015 Paris Agreement.
- At every COP, the scenario repeats itself: an intense media campaign, accompanied by dramatic images designed to mobilize public opinion around the urgency of climate change; lofty promises enshrined in the final communiqué; and, in the end, results close to nothing. Since the Rio Summit of 1992, global CO_2 emissions have increased by 65%.
- How is it possible that, after 30 years of enormous resources being deployed, with so many scientists and leaders mobilized, the outcome could be such a failure
- Having been present from the early days of the COPs and deeply involved, on behalf of the EU, in research on climate and energy issues, Samuel Furfari provides well-documented answers to this troubling question.
- He offers an insider's account of the working methods and contradictions of these massive gatherings, which attract vast media attention, and explains why these international rituals ultimately serve only to maintain the illusion of collective action.

Reference book: The Truth About the CPOs 30 years of illusions Samuel Furfari

Climate Change Advice to Politicians https://youtu.be/QiouAhq2MnE?si=EsezeHZm4oc6_LyK

WattsUpWithThat.com, **Twenty Years Of Watching The Thermometer… And The Narrative**

How China Sold America the Wind Turbine Scam

https://x.com/anika_climate/status/2030280287674851564

11) What are the negative implications of pursuing a Carbon Neutral policy?

Are scientists, institutions, activists and NGOs contributing to climate misinformation?

Conformance pressures are real in the media, governments, corporations, NGOs, schools and the public

Possible factors: A Self-Reinforcing Alignment of Perspectives and Interests.

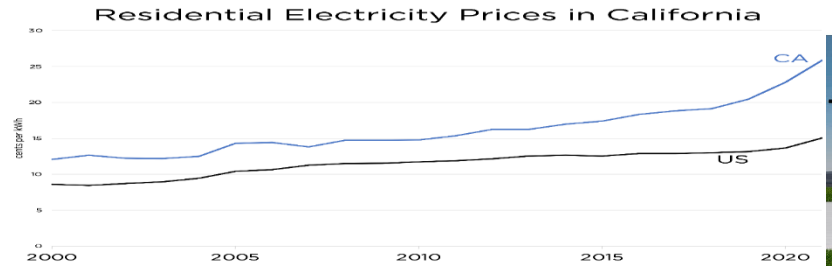
1) **The Media**: As the age of the internet advances, headlines become more provocative to encourage clicks. The general lack of knowledge of what the science actually says, the drama of extreme weather events and their heart-wrenching impact on people and pressure within the industry all work against a balanced coverage in popular media
2) **Politicians**: Politicians win elections by arousing passion and commitment from voters – by motivating and persuading. The threat of climate catastrophe resonates with everyone. Politicians declare the science is settled and label anyone who questions that "a denier"
3) **Scientific Institutions**: When it comes to climate, institutions frequently seem more concerned with making the science fit the narrative than ensuring the narrative fits the science. Assessment reports often summarize or describe the data in ways that are misleading. Scientific institutions have been willing to persuade rather than inform.
4) **Scientists**: For academics, pressure occurs to secure funding through grants, plus the matter of promotion and tenure, plus peer pressure.
5) **Activists and NGOs**: Have built organizations based on "climate emergency" that rely on donations to exist, making claims that climate change is one of the most devastating problems that humanity has ever faced.
6) **The Public**: Concerns about climate change are as old as humanity. Public attitudes mostly involve unquestioning acceptance of wisdom handed down from on high and do not have the time or ability to examine the science themselves. Getting information from social media can also be misleading.

Reference: Unsettled Chapter 10 Steven Koonin

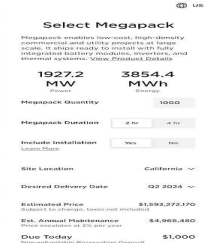
11) What are the negative implications of pursuing a Carbon Neutral policy?

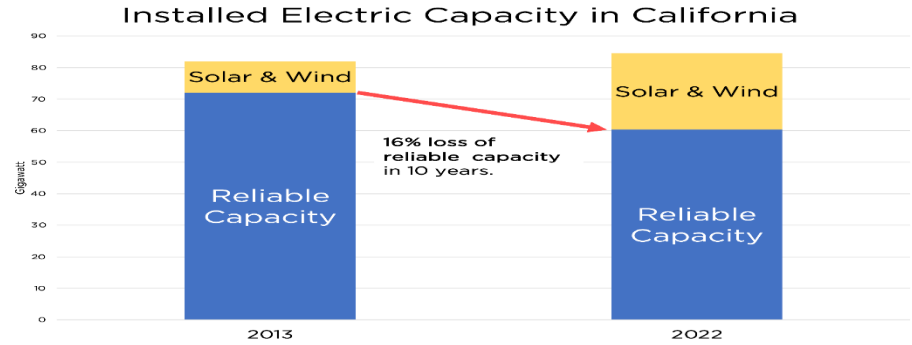
The cost of going "Carbon Neutral is significant - California example, UK reference

Alex Epstein debate: Ron DeSantis /California Gov Gavin Newsom, Steve Goreham Illinois Gov









'25/22: CA announces asoline car ban

can solve this climate crisis if we us on the big, bold steps necessary ut pollution. California now has a undbreaking, world-leading plan to ieve **100 percent zero-emission icles sales** by 2035."

CA Governor Gavin Newsom

8/31/22: CA tells citizens not to charge their EVs

"consumers are urged to conserve power by setting thermostats to 78 degrees or higher, if health permits, avoiding use of major appliances and turning off unnecessary lights. They should also **avoid charging electric vehicles while the Flex Alert is in effect.**"

— California's grid operator

Source: California Independent System Operator
https://www.caiso.com/Documents/california-iso-extends-flex-alert-to-thursday-sept-1.pdf

The use of renewables (wind and solar) raises the price of electricity and consumes vast amounts of land. European countries that have built the most renewable energy sources have the highest electricity costs. Wind and solar supply sources use 100 times the land compared with nuclear, coal or gas plants

From high prices to failing renewable systems, California has an energy affordability crisis.

From 2008 to 2024, California electricity prices rose 116% compared to a national average electricity increase of 33%

NewsBlaze on November 27, 2025

http://digitaleditions.telegraph.co.uk/data/1565/reader/reader.html?social#!preferred/0/package/1565/pub/1565/page/73/article/NaN

https://youtu.be/HWqv6RH-3WE?si=j9UvTxoGpdSi7-E8

https://financialpost.com/opinion/bjorn-lomborg-climate-spending-costs-more-than-climate-change

https://davidturver.substack.com/p/record-cfd-subsidies-in-2024 - UK CfD subsidies were £2.4 billion 2024 alone

Kathryn Porter: The True Affordability of Net Zero

High renewables cost to UK https://www.ref.org.uk/ref-blog/390-uk-renewable-electricity-subsidy-totals-2002-to-the-present-day

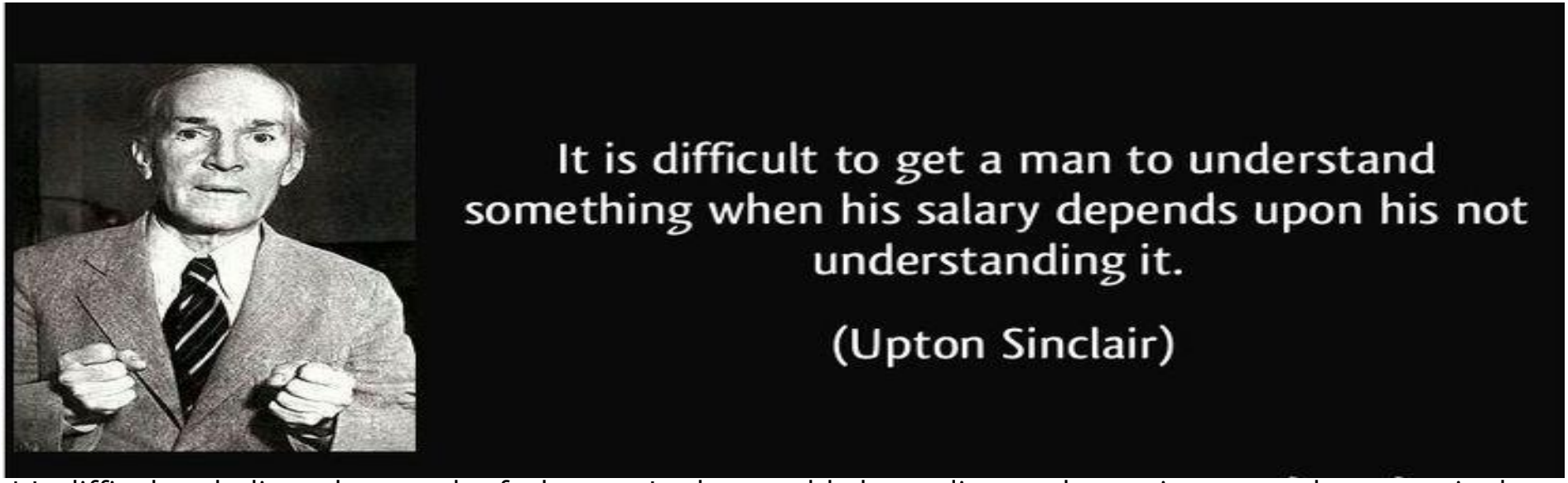
Goreham Full Testimony Senate Committee of the Illinois General Assembly

New energy policies in California threatening America's national security

11) What are the negative implications of pursuing a Carbon Neutral policy?

The Climate "Green" Industry is a $4.7 Billion per Year Business *(Gross receipts of top 25 NGOs in $ Millions)*

The groups pushing the anti-energy messaging are spending staggering sums of money to demonize hydrocarbons and push claims that we only use alt-energy like wind and solar.



It's difficult to believe that much of what you've been told about climate change is wrong when seemingly every sector of society is warning us about an imminent catastrophe. Still, the fact remains: there is no climate crisis, and modest warming and more CO2 is benefiting humanity.

https://x.com/CO2Coalition/status/1899233814322561314 Gregory Wrightstone CO2 Coalition

Climate Scam Explanation https://www.facebook.com/share/v/14PYv1fEJhD/?mibextid=wwXIfr

Net zero is no longer a scientific goal; it's a financial one. It keeps money flowing year after year to a growing industry built on fear of an uncertain future. No one can predict climate in the decades ahead - not even using the most confident models ... Peter Clack

pic.x.com/lPLsBbqaTE Billions have been wasted on UN's climate change lies - New York Post

11) What are the negative implications of pursuing a Carbon Neutral policy?

The Climate "Green" Industry is a $4.7 Billion per Year Business *(Gross receipts of top 25 NGOs in $ Millions)*

Groups pushing anti-hydrocarbon use and reduced CO2 emissions are spending staggering amounts of money to push claims that we must only use alternative energy sources like wind and solar

On 17th October, Oxfam published a report that shockingly found that up to $41 billion in World Bank climate finance —nearly 40% of all climate funds disbursed by the Bank over the past seven years— is "unaccounted for between the time projects were approved and when they closed." No one knows how the money was used. There is no paper trail revealing where the money went or what was accomplished.

The Climatism Industry Is A $4.7 Billion Per Year Business

Rockefeller Brothers Fund	$838	Sierra Club Foundation	$123
Natural Resources Defense Council	$548	League of Conservation Voters	$71
World Resources Institute	$306	Union of Concerned Scientists	$64
ClimateWorks Foundation	$350	Center for American Progress	$40
Environmental Defense Fund	$385	Center for Biological Diversity	$34
National Audubon	$361	Greenpeace	$33
Windward Fund	$224	Climate Reality Project	$30
Climate Imperative Foundation	$289	EDF Action Fund	$29
The Energy Foundation	$133	Public Citizen Foundation	$25
Earthjustice	$198	350.org	$23
Sixteen Thirty Fund	$192	Friends of the Earth	$20
Sierra Club	$184	Nextgen Climate Action	$20
Rocky Mountain Institute	$164	**Total**	**$4,684**

Gross receipts of top 25 Climate NGOs, in $Millions

Source: Guidestar

©Robert Bryce

Imagine the benefits if these funds were directed towards mitigating any negative impacts of Climate Change, rather than trying to prevent natural climate change by reducing valuable CO2 emissions

https://www.realclearenergy.org/articles/2025/01/05/the_climate_agendas_march_through_the_institutions_can_it_be_stopped_1082512.html

The Renewable Energy Reckoning: Challenges, Failures, and 2025 Policy Shifts

Joe Rogan interview with Dr. William Happer and Dr Richard Lindzen https://www.youtube.com/watch?v=Zt32chvO_iY

11) What are the negative implications of pursuing a Carbon Neutral policy?

Climate CO2 Hoax: How Bankers Hijacked the Environment Movement Mark Gerard Keenan

Mark Keenan, a former scientist at the UK Government Dept of Energy and Climate Change, and United Nations Environment, claims the UN climate change narrative, that CO_2 causes climate change, will be remembered as the greatest mass delusion in the history of the world:

- The money agenda, fake science and fraudulent computer modelling are exposed. Most of the scientists who say CO_2 is a problem are on perpetual government grants. The climate CO_2 hoax has subverted and suppressed real environmentalism and real local sustainability, and is designed to propel humanity into UN Agenda 2030, which is a plan for total corporate control of the world's resources. The world's central bankers are behind this decision and are entirely funding and controlling the advancement of the worldwide project of reducing CO_2 emissions.

1. Most people simply accept the UN IPCC reports. Yet many highly respectable and distinguished scientists found that the UN-promoted manmade climate change theory is seriously flawed. Almost 2,000 of the world's leading climate scientists and professionals in over 30 countries declare there is no climate emergency https://clintel.org/world-climate-declaration/

2. Real pollution exists, but the problem is not CO_2. Industrial globalisation has produced many substances that are registered as pollutants, including thousands of new man-made chemical compounds, toxins, nano-particles and genetically modified organisms (GMOs) that are in violation of the scientific precautionary principle.

'Climate CO_2 Hoax – How Bankers Hijacked the Environment Movement'

Reference: The book Climate CO2 Hoax: How Bankers Hijacked the Environment Movement Mark Gerard Keenan

11) What are the negative implications of pursuing a Carbon Neutral policy?

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3. The Irish Climate Science Forum (ICSF) provides a comprehensive lecture series from renowned international scientists, providing much evidence, analysis, and data that contradict the UN assertions. The lectures are available at: https://www.icsf.ie/lecture-series

The ICSF scientific view coincides with those of the Climate Intelligence (CLINTEL) foundation, which operates in the fields of climate change and climate policy.
(see https://clintel.org/ireland/).

4. Climate has always been changing, naturally and slowly in its own cycle. CO_2 emissions and methane from livestock are not dominant factors in climate change. The government, UN and corporate media-produced climate hysteria is an example of fake science being used to drive an ulterior agenda. Godless Fake Science.CO_2 is not a pollutant. Unfortunately, many misinformed environmentalists are driving around in electric cars, the battery production for which has caused vast amounts of 'real' pollution via the industrial mining and processing of rare earth metals, and the consequent pollution to land, air and water systems. See article.

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5. The no climate emergency position of the Climate Intelligence Foundation includes:

- ***Natural as well as anthropogenic factors cause warming****: The geological archive reveals that Earth's climate has always varied, with natural cold and warm phases. The Little Ice Age ended as recently as 1850 and we are now experiencing a period of warming.*
- ***Warming is far slower than predicted****: The world has warmed significantly less than predicted by IPPC on the basis of modeled anthropogenic forcing. The gap between the real world and the modeled world tells us that we are far from understanding climate change*
- *. **Climate policy relies on inadequate models:** Climate models have many shortcomings and are not remotely plausible as global policy tools. They blow up the effect of greenhouse gases such as CO2. In addition, they ignore the benefits of a CO2-enriched atmosphere.*
- ***CO2 is plant food, the basis of all life on Earth and not a pollutant****. It is essential to all life on Earth. More CO2 is beneficial for nature, greening the Earth. Additional CO2 has promoted growth in global plant biomass and is good for agriculture, increasing crop yields worldwide.*
- ***Global warming has not increased natural disasters****: There is no statistical evidence that global warming is intensifying hurricanes, floods, droughts, or natural disasters..*

Carbon Is Not the Enemy. End Chemtrails!

Problem. Reaction. Solution. Wildfires About More than CO2 Induced Climate Change?

They're burning from the inside out." Robert Brame on the Unusual Properties of the Pacific Palisades Fires

11) What are the negative implications of pursuing a Carbon Neutral policy?

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6. The **relevant work and scientific presentations of some of the world's leading climate scientists** (book) state:

- *"**deeply flawed logic**, obscured by shrewd and unrelenting propaganda, actually enabled a coalition of powerful special interests to convince nearly everyone in the world **that CO2 from human industry was a dangerous plant-destroying toxin**. It will be remembered as the greatest mass delusion in the history of the world – that CO2 the life of plants was considered for a time to be a deadly poison." – **Professor Richard Lindzen, Professor Emeritus of Atmospheric Sciences at MIT.***
- **Dr Nils-Axel Mörner,** a **former Committee Chairman at the UN International Panel on Climate Change (IPCC)** ***and former head of the Paleo Geo-physics and Geo-dynamics department in Stockholm*** was an expert involved in reviewing the first IPPC documents. He says the **UN IPPC is misleading humanity about climate change**. He tried to warn that the IPPC was publishing lies and false information that would inevitably be discredited. In an interview, he stated: "This is the most dangerous and frightening part of it. How a lobbyist group, such as the IPPC, has been able to fool the whole world. These organised and deceitful forces are dangerous" and is shocked "that the UN and governments would parade children around UN Climate summits as propaganda props". He states: *"Solar activity is the dominant factor in climate and not CO2… something is basically sick in the blame CO2 hypothesis… It was launched more than 100 years ago and almost immediately, excellent physicists demonstrated that the hypothesis did not work."*

11) What are the negative implications of pursuing a Carbon Neutral policy?

Climate CO2 Hoax: How Bankers Hijacked the Environment Movement Mark Gerard Keenan

- *I was the chairman of the only international committee on sea level changes and as such a person I was elected to be the expert reviewer on the UN IPCC. sea levels chapter. It was written by 38 persons and not a single one was a sea level specialist… I was shocked by the low quality; it was like a student paper… I went through it and showed them that it was wrong and wrong and wrong…The scientific truth is on the side of the sceptics… I have thousands of high-ranked scientists all over the world who agree that NO, CO2 is not the driving mechanism and that everything is exaggerated.*
- *In the field of physics, 80 to 90% of physicists know that the CO2 hypothesis is wrong… Of course, metrologists believe in this because that is their own profession - they live on it…. I suspect that behind-the-scenes promoters… have an ulterior motive… It's a wonderful way of controlling taxation, controlling people."*
- Climate scientist, **Dr Mototaka Nakamura** asserts: "Our models are Mickey-Mouse mockeries of the real world". He received a Doctorate of Science from MIT, and for nearly 25 years, specialized in abnormal weather and climate change at institutions that included MIT, Georgia Institute of Technology, NASA, Jet Propulsion Laboratory, California Institute of Technology, JAMSTEC and Duke University. Dr Nakamura explains why the data foundation underpinning global warming science is "untrustworthy: "Global mean temperatures before 1980 are based on untrustworthy data".

11) What are the negative implications of pursuing a Carbon Neutral policy?

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- **Professor John R. Christy, Director of Atmospheric and Earth Sciences, University of Alabama,** has provided a detailed analysis of climate data:
- *"The established global warming theory significantly misrepresents the impact of extra greenhouse gases; **the weather that affects people the most is not becoming more extreme or more dangerous**; temperatures were higher in the 1930s than today; between 1895 and 2015, 14 of the top 15 years with the highest heat records occurred before 1960; the temperatures we are experiencing now in 2021 were the same as 120 years ago…*
- *the number of major tornadoes between 1954 and 1986 averaged 56/year, but between 1987 and 2020 the average was only 34/year; between 1895 and 2015 on average there has been no change in the number of very wet days per month, and no change in the number of very dry days per month, and the 20 driest months were before 1988. Between 1950 and 2019, the percentage of land area experiencing droughts has not increased globally – the trend is flat; the incidence of wildfires in North America between 1600 and 2000 has decreased substantially. Sea levels rose 12.5 cm per decade for 8,000 years and then it levelled off, now it rising only 2.5 cm per decade… worrying about 30 cm rise in sea level in a decade is ridiculous; in a hurricane, the east coast of the U.S. gets a 20 foot rise in 6 hours, so a 30 cm rise will be easily handled!"*

11) What are the negative implications of pursuing a Carbon Neutral policy?

Climate CO2 Hoax: How Bankers Hijacked the Environment Movement Mark Gerard Keenan

- In a lecture titled *The imaginary climate crisis – how can we change the message?* Available on the Irish Climate Science Forum website, Endnote [ii]. **Richard L Lindzen, Professor Emeritus of Atmospheric Sciences at MIT** summarises the battle against the climate hysteria as follows:
- *"in the long history of the earth,* ***there has been almost no correlation between climate and CO2****… the paleoclimate record shows unambiguously that CO2 is not a control knob… the narrative is absurd… it gives governments the power to control the energy sector… for about 33 years, many of us have been battling against the climate hysteria… There were more important leading people who were objecting to it, they were unfortunately older and by now, most of them dead..*
- *Elites are always searching for ways to advertise their virtue and assert their authority. They believe they are entitled to view science as a source of authority rather than a process, and they try to appropriate science, suitably and incorrectly simplified, as the basis for their movement."*
- *"****CO2 it's not a pollutant..*** *it's the product of all plant respiration****, it is essential for plant life*** *and photosynthesis… if you ever wanted a leverage point to control everything from exhalation to driving, this would be a dream. So it has a kind of fundamental attractiveness to bureaucratic mentality." -* ***Prof. Richard Lindzen, Professor Emeritus of Atmospheric Sciences at MIT***

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- **Patrick Moore, co-founder of Greenpeace,** and President of Greenpeace in Canada for seven years, states: "***the whole climate crisis is not only fake news its fake science****… of course climate change is real it's been happening since the beginning of time, but it's not dangerous and it's not caused by people…* ***climate change is a perfectly natural phenomenon*** *and this modern warming period actually began about 300 years ago when the little ice age began to come to an end. There is nothing to be afraid of and all they are doing is instilling fear. Most of the scientists who are saying it's a crisis are on perpetual government grants.*
- *I was one of the (Greenpeace) founders… by the mid-80s…* ***we were hijacked by the extreme left who basically took Greenpeace from a science-based organisation to an organisation based on sensationalism, misinformation and fear****… you don't have a plan to feed 8 billion people without fossils fuels or get the food into the cities…" –* ***Patrick Moore, co-founder of Greenpeace***
- **Professor William Happer, Princeton University, Former Director of Science at the US Department of Energy,** is also a strong voice against the myth of man-made global warming. He states: "**More CO2 benefits the Earth**".

7. The UN IPCC cherry picks data, uses flawed modelling and scenarios not remotely related to the real world

- The UN climate crisis predictions are not based on physical evidence; rather, they are based on complex computer modelling. One has to decode and analyse the modelling process to ascertain whether or not the models are valid and accurate or whether they have obvious flaws. The vast majority of scientists, economists, politicians and the general public have simply assumed that the UN Intergovernmental Panel on Climate Change (IPCC) models are accurate. Very few people have the time or skills to analyse these models, not to mention actually dispute them. Nonetheless, there were many senior and highly distinguished scientists that did exactly that – they claimed the UN narrative was incorrect and that there was no climate emergency. Their voices have been drowned out by a vast money-driven political and media establishment of the globalised 'system'. The vitally important work of some of these renowned scientists is referenced in the above book.
- *"The computer models are making systematic dramatic errors… they are all parametrised… fudged… the models really don't work" – Patrick J. Michaels, Director, Cato Institute Center for the Study of Science*

11) What are the negative implications of pursuing a Carbon Neutral policy?

Climate CO2 Hoax: How Bankers Hijacked the Environment Movement Mark Gerard Keenan

- **Dr Roger Pielke Jr, University of Colorado,** has conducted a detailed scientific review and analysis of the UN IPCC AR6 report, see Endnote [iii]. He describes that in relation to climate modelling, the IPCC detached the models from socio-economic plausibility. In creating the models, instead of first completing integrative assessment models (IAMs), the IPCC skipped this essential step and jumped straight to radiative forcing scenarios and thus these scenarios are not based on completed IAMs. This led much of climate modelling down the wrong track. "*The four IPCC scenarios came from a large family of models so instead of splitting modelling from socio-economic assumptions, the models already had the assumptions faked and baked in to them, because they had to have those assumptions to produce the required radiative forcing (to produce a desired climate 'crisis scenario' outcome).*

11) What are the negative implications of pursuing a Carbon Neutral policy?

Climate CO2 Hoax: How Bankers Hijacked the Environment Movement Mark Gerard Keenan

- *In another fateful decision, the 4 representative concentration pathways (RCPs) came from 4 different IAMs, which was a huge mistake. These models are completely unrelated to each other, but the impression has been given that they are of a common set, only differing in their radiative forcing. Furthermore, no one has the responsibility for determining whether these scenarios are plausible. The climate community decided which scenario to prioritise and they chose the two most implausible scenarios! There are thousands of climate assumptions, but only 8 to 12 of them are available currently for climate research. The IPCC report even states that "no likelihood is attached to the scenarios in this report". The likelihood is considered low, they admit. This is an incredible admission by the IPCC.*
- *These extremely unlikely scenarios dominate the literature and the IPCC report; therefore, the IPCC report is biased. Bottom line is that there is massive confusion. The IPCC's Richard Moss warned that RCP 8.5 was not to be used as a reference for the other RCPs, but 5,800 scientific papers worldwide misuse it like that… The whole process is seriously flawed… Nothing close to the real world is represented by the IPCC scenarios. Climate science has a huge problem! The IPCC currently uses RCP 8.5 as the 'business as usual' scenario, but RCP 8.5 is wild fantasy land and not remotely related to current reality at all… climate science has a scientific integrity crisis." -* ***Dr Roger Pielke Jr, University of Colorado***

8. Financialization of the entire world economy is now based on a life-killing 'net-zero' greenhouse gas emissions strategy.

- The UN Agenda 2030 plan and the Paris Agreement goal to reduce CO_2 emissions by 7% per annum until 2030 would seemingly disable the current fossil-fuel-based mechanisms of the industrial economy for the food, energy and goods that enable human life and survival. This is hypocritical as the production of green energy infrastructure, and the mining of rare earth metals for batteries for electric vehicles, is very fossil-fuel intensive. Globalisation resulted in humanity becoming largely dependent on the trans-national industrial economy rather than on traditional, more self-sufficient local/regional economies. Where is this lead if the plug is truly pulled on fossil fuels? Almost all of us are seemingly locked into, and have become dependent upon, the current economic paradigm of globalisation. A system rigged by debt-money created from nothing; created and controlled by private mega-banks and behind-the-scenes money-masters; and which can induce boom, bust, bailout scenarios that detrimentally effect the populace.
- For decades, these same political, government, and corporate powers have promoted corporate economic globalization and fossil fuel dependency whilst actively hindering the funding, creation, or government support of more self-sufficient local communities, regions, and local co-operatives. Most of the world population thus became reliant on the globalized fossil-fuel-driven system. Demonic Economics and the Tricks of the Bankers and Transcending the Climate Change Deception Toward Real Sustainability

11) What are the negative implications of pursuing a Carbon Neutral policy?

Climate CO2 Hoax: How Bankers Hijacked the Environment Movement Mark Gerard Keenan

- Zero carbon emissions, in essence, means pulling the plug on current systems of industrial agriculture, transport, goods production, electricity production, etc. This could have terrible consequences, particularly in locations and countries that are currently unable to produce much food. In Ireland, the deluded greens in government had planned to close the coal-fired power station Moneypoint, in the name of reducing CO_2 emissions. However, as the price of electricity increased, the government scrapped this plan in 2022, instead deciding to convert the station to an oil-burning facility. The Irish Times newspaper reported: "*With growing concerns over the security of the energy supply in the State, the Government is not in a position to decommission Moneypoint as a fuel-burning station in the near future. It was confirmed by the Irish Government in 2022 that Moneypoint will convert to oil generation from 2023.*"
- The so-called 'green economy' (for it is not environmentally friendly in reality) and UN Agenda 2030 are resulting in increased energy poverty and decreased energy independence for the masses, while also developing trillions of dollars for the behind-the-scenes mega-banks. "*Stop burning coal and wood logs that cause climate change,*" my neighbour informed me last year, having thrown out her wood-burning stove and installed solar panels. Then, a typical winter storm in Ireland last month left many thousands of people without electricity or heating for almost a week, shivering and wishing for a wood-burning stove, while their solar panels produced little electricity in winter.

9. Central bankers are entirely funding/controlling the advancement of the worldwide climate change 'project'

- The world's central bankers are behind this decision to drastically reduce CO_2, one of the most essential compounds to sustain all life and are funding and controlling the advancement of the worldwide project of 'combating man-made climate change'.
- This project involves decarbonising the activities of the entire world population. In December 2015, the Bank for International Settlements (BIS) created the Task Force on Climate-related Financial Disclosure (TCFD), which represents $118 trillion of assets globally. In essence, this means that the financialization of the entire world economy is based on meeting nonsensical aims such as "net-zero greenhouse gas emissions". The TCFD includes key people from the world's mega-banks and asset management companies, including JPMorgan Chase, BlackRock, Barclays Bank, HSBC, China's ICBC bank, Tata Steel, ENI oil, Dow Chemical, and more.
- The world's largest banks and asset management corporations appear to have all linked to push a vague, mathematically nonsensical 'green' economy climate change agenda that has zero evidence. This agenda tries to convince people to make huge sacrifices under the emotive guise of "saving our planet," while all the time, the corporations and banks make vast profits, and political institutions implement worldwide technocratic control systems under the banner of the so-called man-made climate change.

11) What are the negative implications of pursuing a Carbon Neutral policy?

Climate CO2 Hoax: How Bankers Hijacked the Environment Movement Mark Gerard Keenan

- *"The links between the world's largest financial groups, central banks and global corporations to the current push for a radical climate strategy to abandon the fossil fuel economy in favor of a vague, unexplained Green economy, it seems, is less about genuine concern to make our planet a clean and healthy environment to live. Rather, it is an agenda, intimately tied to the UN Agenda 2030 for "sustainable" economy, and to developing literally trillions of dollars in new wealth for the global banks and financial giants who constitute the real powers that be… " - **F. William Engdahl**, strategic risk consultant and lecturer*
- In 2010, the head of Working Group 3 of the UN IPCC, Dr Otmar Edenhofer, told an interviewer, "…one must say clearly that we redistribute de facto the world's wealth by climate policy. One has to free oneself from the illusion that international climate policy is environmental policy. This has almost nothing to do with environmental policy anymore."
- To better perceive what is 'behind the curtain' of the climate hoax and the UN/WEF agenda, it helps to examine the implications of the worldwide fractional-reserve debt-money banking scam and the subtle system of debt-slavery that has existed for decades. As seen on the World Bank website, virtually every nation on Earth is in vast debt. In debt to whom, you may ask? The answer is to privately owned mega-banks. Demonic Economics and the Tricks of the Bankers.

11) What are the negative implications of pursuing a Carbon Neutral policy?

Climate CO2 Hoax: How Bankers Hijacked the Environment Movement Mark Gerard Keenan

- Back in 2010, the head of Working Group 3 of the UN IPCC, Dr Otmar Edenhofer, told an interviewer, "…one must say clearly that we redistribute de facto the world's wealth by climate policy. One has to free oneself from the illusion that international climate policy is environmental policy. This has almost nothing to do with environmental policy anymore."
- To better perceive what is 'behind the curtain' of the climate hoax and the UN/WEF agenda, it also helps to examine what has happened in the decades beforehand. It is important to perceive the implications of the worldwide fractional-reserve debt-money banking scam and the subtle system of debt-slavery that has existed for decades. If you look at the World Bank website you will see that virtually every nation on Earth is in vast debt. In debt to who, you may ask? The answer is to privately owned mega-banks. See also the book Demonic Economics and the Tricks of the Bankers.
- For many decades the so-called banking and corporate elites have had full control of the source of money creation and its allocation, via the debt-money system, and have therefore, by default, been able to fund, and increasingly control and manipulate the entire world spectrum of industry, media, government, education, ideological supremacy and war to their own design, agenda and benefit. Mayer Amschel Rothschild (banker) is widely reported to have said: *"Give me control of a nation's money supply and I care not who makes its laws."*

10. Central bankers hijacked the real environmental movement in 1992, creating the fake climate change agenda

- Any ideology can be utilised and changed from within to something that may eventually be entirely different from its original purpose. The original followers and advocates continue to pursue what they believe is the original ideology, but gradually become mere pawns in the agenda of a self-serving elite. Unfortunately, over the past decades, this is exactly what has happened in the environmental movement.
- Whistleblower George Hunt served as an official host at a key environmental meeting in Denver, Colorado in 1987, and states that David Rockefeller; Baron Edmund De Rothschild; US Secretary of State Baker; Maurice Strong, a UN official and an employee of the Rockefeller and Rothschild trusts; EPA administrator William Ruccleshaus; UN Secretary General in Geneva MacNeill, along with World Bank and IMF officials were at this meeting. Hunt was surprised to see all these elite bankers at the meeting and questioned what they were doing there at an environmental congress.
- In a video recording available here Hunt later provided important evidence from the documents of the United Nations Conference on Environment and Development (UNCED), Rio de Janeiro, Brazil, 3-14 June 1992, run by UNCED, that the UN was setting a plan to place the power over the Earth's people into their own hands.

11) What are the negative implications of pursuing a Carbon Neutral policy?

Climate CO2 Hoax: How Bankers Hijacked the Environment Movement Mark Gerard Keenan

- The world private banking cartel is the same ultra-rich banking families that had been instrumental in the setting up of the World Bank, the UN, and other international institutions, after WW2. Hunt refers to these banking families and their financial and international institutional networks as: *"The same world order that tricked third world countries to borrow funds and rack up enormous debts… and purposely creating war and debt to bring societies into their control."– George Hunt, Whistleblower speaking about the UN Earth summit of 1992*
- As a consequence of the UN Earth Summit, it appears the genuine environmental movement that cared about real pollution to land, air and water was politically hijacked by powerful political and financial interests with a different agenda.
- Maurice Strong, a UN official and an employee of the Rockefeller and Rothschild trusts, had convened the first UNCED congress in Stockholm, Sweden, in 1972. Then, 20 years later, he was the convenor and secretary general of UNCED. Hunt also provided video evidence from the Fourth UNCED World Congress meeting in 1987 of an international investment banker, stating that: *"I suggest, therefore, that this be sold not through a democratic process that would take too long and require far too much funds to educate the cannon-fodder, unfortunately, which populates the Earth. We have to take almost an elitist program…"*

11) What are the negative implications of pursuing a Carbon Neutral policy?

Climate CO2 Hoax: How Bankers Hijacked the Environment Movement Mark Gerard Keenan

- The decrees leading to the 1992 UN Earth summit were dictated without debate or opportunity for dissent and superseded national laws. According to Hunt, the decrees were dictated into existence by the banker Edmund de Rothschild, who got these major decrees into the '92 UN resolutions without challenge. Hunt asserts that he was denied the opportunity to openly challenge Rothschild's remarks by the meeting Chairman, that the Rothschild bank of Geneva is the nucleus of the World Conservation Bank and the wealthy elite are integrated into the bank via the Rothschild's private offering of shares.

11. Despite the deceptive and fake environmental facade it has adopted, the vast institutional entity of the UN has fully endorsed environmentally destructive industrial globalisation for the past 70 years.

- The UN climate change, sustainable development and green economy policies over the past 30 years are little more than worldwide marketing tricks that have tragically brainwashed two generations of young people who do not understand what the UN actually is, and who is it is really designed to serve.
- This current globalised system involves the promotion of beliefs and fake science that claim to be unchallengeable truths, but are, in fact, ideologies in which evidence is manipulated, twisted, and distorted to prove the 'governing idea', and thus promote its worldwide dissemination. They start with the conclusion they want and then wrench and manipulate what scant evidence they can to fit that conclusion. Man-made climate change due to anthropogenic carbon emissions is a major example of this.

11) What are the negative implications of pursuing a Carbon Neutral policy?

Climate CO2 Hoax: How Bankers Hijacked the Environment Movement Mark Gerard Keenan

- Institutions, including the UN, the World Economic Forum (WEF), and the World Health Organisation (WHO), are privately-motivated unelected unaccountable organisations controlled by the source of debt-money creation, i.e., the world private-banking cartel; and are just clever marketing tools and political mechanisms for implementing and maintaining a corrupt worldwide system, under the clever guise of 'fixing the problems of the world'.
- These powerful special interests have been promoting certain 'ideologies' for decades to advance their corporate and political aims. The word "sustainable" was hijacked decades ago, and it is now deceptively used to advance the agendas of globalist mega-corporate interests who couldn't care less about the environment. The aim is to catapult humanity into the arms of UN Agenda 2030 and the WEF 'reset' plan, which are marketing plans designed by the so-called elite mega-corporate interests of the WEF Davos group.

12. The current green energy/renewable technologies being promoted by the UN and WEF, are not a viable solution for the world's energy supply.

- Although these technologies have some limited viability in certain locations and scenarios, the Energy Returned on Energy Invested is much too low - in essence, the entire process is mathematically flawed. This is evidenced by the work of scientists, including Professor David MacKay (1967 - 2016), former Regius Professor of Engineering at Cambridge University, and former Chief Scientific Advisor at the UK Department of Energy and Climate Change.

11) What are the negative implications of pursuing a Carbon Neutral policy?

Climate CO2 Hoax: How Bankers Hijacked the Environment Movement Mark Gerard Keenan

Summary

- CO2 reduction is the main focus of the UN-promoted climate-change hysteria that has been rampant among the world's population. However, the proclaimed climate crisis exists in computer models only. The cult of 'manmade climate change' is a media and UN politically-promoted 'ideology', that is used for a wider political and corporate agenda. Manmade climate change is not based on fact, and has hijacked real environmental concerns.
- Due to incessant UN, government, and corporate-promoted climate change propaganda, many people are in a media-induced state of confusion, and, thus, blindly assume their pre-determined role in society under this 'dictatorship of words' without even being aware of it. The reality is that people's access to energy and resources is being intentionally reduced via bogus climate change policies, inflation, ongoing geopolitical theatre and intentionally instigated war.
- Unless we recognize the untruths of the current paradigm, even if it is not 'politically correct' to do so, then we will not be able to make the correct adjustments to our communities and local/regional networks, or create a truly resilient, thriving society. In this spirit of truth, new networks are emerging worldwide.

Reference: The book Climate CO2 Hoax: How Bankers Hijacked the Environment Movement Mark Gerard Keenan

Dr. Matthew M. Wielicki on X: "Can We Really Trust the Global Temperature Record" / X

The Climate Change Racket - The Epoch Times

11) What are the negative implications of pursuing a Carbon Neutral policy?

The "Green" Industry is not that Green or environmentally "friendly"

Green energy is often praised for its ability to produce zero emissions. However, the reality is more complex. While wind turbines and solar panels themselves may not emit carbon during their operation, the manufacturing process is a different story. The creation of these green technologies often involves the use of fossil fuels. Factories emit significant amounts of carbon dioxide to produce the steel, concrete, and other materials needed. Additionally, transporting these components to installation sites adds to the carbon footprint. Therefore, the complete lifecycle of green energy solutions is not as emission-free as one might think. Jeff Carlin B.Sc. Neuroscience.

Mining for Materials

- Both wind and solar technologies require raw materials such as rare earth metals, lithium, cobalt, and copper, which are often extracted through mining practices that can be environmentally harmful. The mining processes contribute to land degradation, water pollution, and greenhouse gas emissions.

  For instance, the extraction of lithium, a key component in batteries, often involves the use of vast amounts of water, leading to water table depletion in already arid regions. This not only impacts the local environment but also affects the communities that rely on these water sources for their daily needs.

  Furthermore, the mining of rare earth metals often results in toxic waste that can contaminate local ecosystems. The environmental impact of these activities underscores the need for sustainable mining practices as demand for these materials increases. Liz McKinley B.Sc. Environmental Science

- Bing Videos ElectricCars The Good, The Bad, The Ugly

11) What are the negative implications of pursuing a Carbon Neutral policy?

The "Green" Industry is not that Green or environmentally "friendly"

The Blade Stops Here: France Holds Wind Industry Accountable at Last

- The recent shutdown of the Bernagues wind farm in Hérault, France, marks a reckoning with the lethal impacts of wind energy on wildlife. On April 9, 2025, a French court ordered the entire site to cease operations for one year following the confirmed death of a golden eagle, a protected species, that collided with one of the farm's turbine blades in January 2023. The decision also slapped the farm's operator with a €200,000 fine, half of which was suspended, and imposed an additional €40,000 fine on the company's director.

- The broader public are beginning to confront the uncomfortable truth about wind energy's collateral damage. For years, bird deaths caused by wind turbines have been ignored, downplayed, or dismissed as unfortunate but tolerable trade-offs in the race toward "net zero." But the Bernagues case shatters that illusion - an implicit admission that the risks to protected species may outweigh the supposed benefits of wind energy.

- Another French wind farm in Aumelas was also ordered to suspend operations, along with a €5 million fine against EDF Renewables.

- The renewable energy sector, long shielded from scrutiny, is now being subjected to long-overdue consequences.

11) What are the negative implications of pursuing a Carbon Neutral policy?

There is the horrific damage done to the earth and people in the name of climate change.

In 2021, during the COP26 climate summit in Glasgow, the U.S. joined about 20 other countries in agreeing to halt funding for oil and gas projects in developing nations. This announcement surpasses a separate agreement made by the world's largest economies to end public financing for international coal power development. Also in 2021, the U.S. Treasury Department issued guidance for multilateral development banks "aimed at squeezing off fossil fuel financing except in certain circumstances."

Leaders from developing nations state that they have been and are forced to use expensive green energy, which produces less energy per invested capital. This has made it even harder for billions of people to escape poverty. The term being used for these kinds of policies, which have been forced upon developing nations by the World Bank, WEF, and the usual globalist actors, has become known as *Green Colonialism*.

Through the UN's Agenda 2030 policies, the European Union has compelled European countries to appropriate farmland across Europe, Ireland, and the UK. Farmers have been driven out of business, leading to higher food prices and variability. Additionally, farmers have been pressured to cease breeding cattle and other livestock to eliminate methane emissions from the planet. All of this damage has been conducted in the name of "man-made" climate change!

Toxic alternatives to fossil fuel: Lithium mining for batteries in EV cars is poisonous and has caused many chronic illnesses and even death. Children are often used to mine lithium. The waste from these batteries is not easily disposed of. Furthermore, wind turbines kill animal species, disrupt sea life, and their disposal is complicated and also environmentally damaging.

11) What are the negative implications of pursuing a Carbon Neutral policy?

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There are absolutely instances where alternative energy sources are wanted. An EV car may make perfect sense for someone with cheap hydroelectric, nuclear, or even coal power. Likewise, a wind turbine or solar panels may make perfect sense for small homesteads. But these choices must be choices, not mandated. These choices need to be regionally based.

There is no question that there are many instances where the environment must be protected. However, these climate change policies have been abysmal failures.
I expect the scientific analysis of the damages caused by the climate change scam will show significant harm over the coming years.

A significant portion of society now distrusts the government. Governments, NGOs, and global corporations have driven this flawed research over the past two decades (the government and large corporations fund the research they wish to obtain). Governments have used those research results to promote initiatives that have benefited the corporations affiliated with the WEF, which control businesses worldwide.

The Overton window, control of funding, and the flawed peer-reviewed processes have made it virtually impossible for independent scientists to speak out about the censorship and propaganda regarding "man-made climate change."

https://www.malone.news/p/the-climate-scam-is-over?utm_campaign=post&utm_medium=web

Endangerment Finding Endangers Our Fuels, Forests and Freedom Slides from presentation by Gregory Wrightstone Aug 2025 SPN For Distribution 2025 08 24 (2).pdf

https://youtu.be/nLm1_a_JF6Q?si=IvLFVFIhnqI4IYSI

Negative impact on children https://youtu.be/WILzBxIkos8?si=OwqRoJT4090J9W2Y

Konstantin Kisin & Josh Szeps CLASH on Climate

11) What are the negative implications of pursuing a Carbon Neutral policy?

There is the horrific damage done to the earth and people in the name of climate change.

- Wealthier country governments are pursuing the MOST expensive and least reliable, non-continuous energy source supplys to generate electricity, choosing weather-dependent wind turbines and solar panels, paid with taxpayer funds, to support the Government Mandates and Subsidies; rather than pursuing the most reliable sources of electricity generation that are also continuous and uninterruptible, like nuclear, hydro, coal, or natural gas.
- In pursuit of net zero emissions, Western governments have committed to shutting in reliable fossil plants that are absolutely required to back up wind and solar. If these shutdowns continue, blackouts, grid failure and serious damage could result.
- The Western world has spent trillions of dollars on unreliable wind and solar to replace reliable sources of electricity. But wind and solar still produce less than 10% of the world's electricity. They plan to commit trillions more attempting to eliminate fossil fuels. This is impossible because wind and solar are unreliable and can ONLY generate electricity, but cannot replace the 6,000 products and transportation fuels based on fossil fuels.
- These wasted trillions of dollars could be used to save millions of lives and to pull billions of poor people out of energy poverty
- **https://www.americaoutloud.news/attacking-global-electricity-poverty/ by *Ronald Stein* and *Jimmie Dollard***

https://www.americaoutloud.news/the-transition-to-net-zero-emissions-is-a-tax-on-the-air-you-breathe/

Co-authored by Ronald Stein and Willie Soon

https://freebeacon.com/democrats/arkansas-senate-candidate-running-to-fight-for-farmers-backed-carbon-tax-that-could-cost-them-hundreds-of-millions-of-dollars/

11) What are the negative implications of pursuing a Carbon Neutral policy?

There is the horrific damage done to the earth and people in the name of climate change.

- Modern societies depend on electricity and the world can be divided into wealthy countries and poor countries; those with reliable electricity and those without. It would be catastrophic to any modern society that lost its electricity, but the number of people WITHOUT electricity access was about 730 million in 2024.
- These poor areas desperately need electricity to lift themselves out of poverty, wanting reliable electricity to provide all the benefits of modern life found in wealthier societies.
- A major effort is needed by all countries, foundations, financial institutions and corporations of the world to bring LPG stoves, safe water and electricity to the poor of the world. The LPG stoves could be provided while continuous and uninterruptible electricity is being built out.
- Most countries in Africa have good fossil fuel reserves, but don't have electricity. One reason is that Western World governments, and a loose cabal of financial institutions, including the UN and World bank, have blocked financing of fossil fuel systems in the developing world.
- The availability of limited electricity has provided communication and minimum lighting, but it is totally inadequate to support industry. Eliminating poverty requires jobs and industry supported by cheap, reliable electricity. To combat poverty, these countries need jobs. Good industrial jobs require cheap, reliable electricity.

https://www.americaoutloud.news/attacking-global-electricity-poverty/

Co-authored by ***Ronald Stein*** and ***Jimmie Dollard***

Eco-Friendly' Energy Slaughtering Wildlife - USSA News

11) What are the negative implications of pursuing a Carbon Neutral policy?

Efforts to reduce CO_2 make no difference given natural emissions of CO_2

Nature's CO_2 emissions override all of mankind's CO_2 emission reduction initiatives

- .Since its first spewing of volcanic ash, the volcanic eruption in Iceland has, in just four days, negated every single effort made in the past five years to control CO2 emissions on our planet. There are around 200 active volcanoes on the planet spewing out this crud at any one time, every day.
- When the volcano Mt. Pinatubo erupted in the Philippines in 1991, *it spewed out more greenhouse gases into the atmosphere than the entire human race had emitted in all its years on Earth.*
- The bush fire season across the western USA and Australia this year alone will negate all efforts to reduce carbon in our world for the next two to three years and it happens every year.

Professor Ian Plimer Geologist University of New England ,University of Newcastle,University of Melbourne,University of Adelaide

Alma Mater University New South Wales, Macquarie University, Australia

Notable awards: Eureka Prize (1995, 2002),Centenary Medal(2003), Clarke Medal (2004)

11) What are the negative implications of pursuing a Carbon Neutral policy?

Wind and solar energy cannot meet world needs promoting unrealistic energy options

The pursuit of Wind and Solar energy generation is not cost-effective and does not have the capacity to provide the required world energy needs and replace hydrocarbon energy

- **Wind and solar energy potential combined fall very short of meeting world energy needs**
- **Without subsidies and Government support, wind and solar energy are not economic**
- **Both wind and solar energy are intermittent, needing significant backup capacity**
- **Required storage capacity and materials for these batteries are limited, making total energy conversion to wind and solar unattainable**
- **Wind and solar energy have their own environmentally negative impacts, including extensive land space usage and negative visual impact, negative impact on animal life, significant open pit mining implications, limited country sourcing (China plus limited other countries for raw material supplies)**

Reference books: The Moral Case for Fossil Fuels Alex Epstein 2014

Unsettled Steven Koonin; False Alarm Bjorn Lomberg; Archimedes Fulcrum

Reference Videos: Jordan Peterson https://youtu.be/--QS_UyW2SY

Oxford Collège debate https://m.youtube.com/watch?v=JKIOSnKX96E



Commentary: "Green Energy" is Neither Energy Nor Green – Alex Epstein - Energy News for the United States Oil & Gas Industry | EnergyNow.com

https://www.foxnews.com/politics/study-casts-doubt-electric-vehicles-climate-cost-benefits-wont-achieve-goals-intended

This presentation by Mark Mills The Energy Transition Delusion: Inescapable Mineral Realities

Politicians Who Cut Solar and Wind Subsidies Saved Our Grid Alex Epstein

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- Energy is the lifeblood of modern economies, improving living standards in industrialized countries, accompanied by an extraordinary reduction in poverty in the developing world. Fossil fuels and nuclear energy have played a major role in this achievement.
- Energy choices are constrained by the laws of thermodynamics, chemistry, geography, meteorology and economics. Ignoring this can lead to waste of capital, lower living standards in industrialized countries, a threat to poverty reduction and undesired environmental effects.
- Electricity is a central and growing element in the world energy economy, but a complex problem. It is difficult and expensive to store, requiring power companies to generate exactly the required amount.
- The evaluation of energy options requires a review of the complete supply chain from beginning to end. When the full life cycle is considered, energy choices often look quite different.
- Wind and solar have a low energy return on energy invested and are therefore a step backward in history in terms of systems' energy efficiency. Their grid-scale employment risks energy starvation and is neither economically nor environmentally desirable.
- New U.S. Treasury Department numbers show that soaring federal handouts for wind & solar dwarf all other energy-related provisions in the tax code and will cost taxpayers $421 billion by 2034
- Nuclear reactors offer a much more efficient and cost-effective energy option

Reference book The Unpopular Truth about Electricity and the Future of Energy Schemikau and Smith

Why read The Unpopular Truth… – The Unpopular Truth

THORIUM: World's CHEAPEST Energy! [Science Unveiled]

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The true full cost of electricity to society includes 10 factors:

1) Cost of building electricity generation /processing equipment
2) Cost of fuel to run the electric generation site, including backup supply
3) Cost of operating and maintaining electric generation/processing equipment
4) Cost of electricity transportation/balancing systems
5) Cost of Storage required by renewable energy systems as well as load balancing
6) Cost of Backup and redundancy in case of problems; renewables require 100% backup
7) Cost to the Environment, including plant and animal impact and raw material extraction
8) Cost of Recycling, decommissioning, or rehabilitation of electricity generation equipment
9) Room/land footprint Costs relevant to low energy density renewables – direct and opportunity costs
10) Other Metrics, including material input per unit of service, lifetime equipment use before retirement, and energy return on energy investment

When all these factors are taken into account, wind and solar are clearly not cost-competitive in electricity cost generation and supply when compared to gas, coal, or nuclear electricity supply costs.

Reference book The Unpopular Truth about Electricity and the Future of Energy Schemikau and Smith

A Renewable Energy Transition Violates The Maximum Power Principle | Art Berman

Dutch coalition party calls for stop on wind turbines on land after devastating Clintel report Nov 9, 2024

11) What are the negative implications of pursuing a Carbon Neutral policy?

Wind and solar energy cannot meet world needs promoting unrealistic energy options

More and more wind turbines and solar panels are not the answer because they can never fully supply the required electrical grid or provide energy reliability without full dispatchable backup.

- *"An electrical grid powered mostly by intermittent generators like wind and sun requires full backup from some source; and if that source is to be stored energy, the amounts of storage required are truly staggering. When you do the simple arithmetic to calculate the storage requirements and the likely costs, it becomes obvious that the entire project is completely impractical and unaffordable. The activists and politicians pushing us toward this new energy system of wind/solar/storage are either being intentionally deceptive or totally incompetent."*

https://www.manhattancontrarian.com/blog/2022-12-1-the-manhattan-contrarian-energy-storage-paper-has-arrived

Negative impacts of solar and wind-generated energy

(855) Net Zero 'Slavery' EXPOSED By Local Resident – YouTube

https://www.youtube.com/watch?v=LYHRngcYyB8

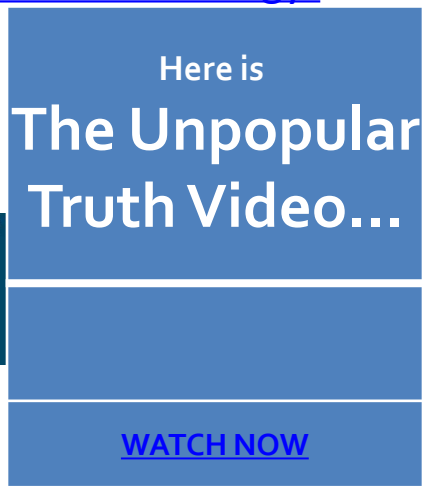
Calgary Herald ePaper The anti-fossil fuel dilemma

The electricity grid is at the heart of our assumptions about how society will move forward. This is a little documentary on the issue.

https://www.texasmonthly.com/news-politics/sweetwater-wind-turbine-blades-dump/

Doomberg - You Can't Have Heavy Industry With A Dumb Energy Policy





11) What are the negative implications of pursuing a Carbon Neutral policy?

Wind and solar energy cannot meet world needs promoting unrealistic energy options

The CEO of Honeywell, Vimal Kapur, states that data centers and the cement and steel industries need more natural gas generation, not wind or solar, as a matter of basic physics.

- What is important is the intensity of the energy source. The mix of energy doesn't matter, but the kilo joules does.
- Solar power cannot produce the energy needed to produce cement or steel or run data centers because these industries are all very energy-intensive and therefore use gas-based heating or oil.
- **E**ven after three or five more years of innovation, renewables will not work based on basic physics. Renewables cannot meet the intense energy needs of these products.
- Looking at the required energy mix in the context of joules of energy, the challenge remains. The world still needs steel and cement to progress and build more infrastructure. Any energy mix change also needs to address the upcoming data centers needs, which need reliable, continuous energy-intensive sources. Today, the solution is primarily met with the gas-fired power plant, with a little bit of nuclear. Renewables are not capable of providing the high-intensity joules needed to produce the steel and cement for the world's ever-expanding infrastructure, nor meet the high energy-intensive data center demands.

Honeywell CEO Says Datacenters, Cement Industry Need Gas, Not Renewables

Feed | CO_2 Coalition Discussion Group **Where is "full electrification" as a political issue in the 2026 and 2028 elections?**

The Chance of Blackouts - Watts Up With That? Kevin Kilty

11) What are the negative implications of pursuing a Carbon Neutral policy?

Wind and solar energy fundamentals compare very poorly with petroleum energy

Petroleum Energy Density

A single gallon of gasoline contains approximately forty megajoules of chemical energy. Dividing energy by volume yields an energy density of ten billion joules per cubic meter. *Gasoline is ten quadrillion times more energy-dense than solar radiation, one billion times more energy-dense than wind and water power, and ten million times more energy-dense than human power.*

Table 1 Energy density

Source	Joules per cubic meter
Solar	0.0000015
Geothermal	0.05
Wind at 10 mph (5m/s)	7
Tidal water	0.5–50
Human	1,000
Oil	45,000,000,000
Gasoline	10,000,000,000
Automobile occupied (5800 lbs)	40,000,000
Automobile unoccupied (5000 lbs)	40,000,000
Natural gas	40,000,000
Fat (food)	30,000,000

[3] The best endurance athletes can produce 400 to 600 watts for periods of minutes to hours.
[4] Kinetic energy (human) = ½ mv^2 = ½ × 50 kg × (2 m/s)^2 = 100 joules.
[5] This calculation is equivalent to determining the energy density of a slave or unskilled manual laborer.

Sir Jim Ratcliffe takes aim at Ed Miliband over net zero as he warns ...

11) What are the negative implications of pursuing a Carbon Neutral policy?

Wind and solar energy are more expensive than gas ***David Turver***

Table of the current cost of gas-fired electricity and various renewables according to the different subsidy regimes.

Cost of Electricity by Technology and Subsidy Scheme (£/MWh)	Gas	Offshore Wind		Onshore Wind		Solar			Biomass	
		CfD	ROC	CfD	ROC	CfD	ROC	FiT	CfD	ROC
Fuel	61									
Carbon Tax	15									
CfD Market Rate		75	75	73	73	67	67		84	84
CfD Subsidy		83		44		10			59	
ROCs			127		67		97			97
FiTs (2023/24)								221		
Basic Total	**75**	**158**	**203**	**117**	**140**	**77**	**164**	**221**	**142**	**180**
Grid Balancing		19	19	19	19	19	19	19		
Capacity Market		13	13	13	13	13	13	13		
Total	**75**	**190**	**234**	**148**	**171**	**108**	**195**	**252**	**142**	**180**

© davidturver.substack.com

If renewables were cheaper, they would not need subsidies and there would be no need to transfer those subsidies on to gas bills to make electricity look cheaper. The claim delivering "Clean Power 2030 and wider energy security will lead to lower energy bills" ignores the cost of subsidies and calls for households and businesses to be helped to "shift their energy use to times when electricity is cheapest and most abundant."

https://davidturver.substack.com/p/renewables-are-more-expensive-than-gas

11) What are the negative implications of pursuing a Carbon Neutral policy?

Wind and solar energy generation faces many human and environmental concerns

Wind and solar only generate occasional high-cost electricity, with many concerns.

To make wind and solar energy usable and reliable, we have to build enormous support systems, mine rare minerals, manufacture components, build storage, upgrade the grid, maintain everything, and then, eventually, dispose of it.

The massive amounts of mining and manufacturing needed to make the physical components for industrial-scale Wind turbines, and Solar Panel installations and EV batteries are very bad for humanity and the environment. For example, inside the Congo cobalt mines exploit children. The SKY NEWS 6-minute video is confirmation of the Pulitzer Prize nominated book "Clean Energy Exploitations" that describes the humanity atrocities and the environmental degradation occurring in developing countries.

Subsidies to purchase EVs are financial incentives to encourage further exploitations of these residents in developing countries. The environmental impacts of EV mandates; impacts that are deliberately being ignored by EV evangelists.

Consequently, there may be growing ethical and moral concerns from buyers of EVs about them "financially supporting" countries like China and Africa that supply the lithium and cobalt for those EV batteries, that lack sufficient labor laws and environmental regulations, to continue humanity atrocities against these people and environmental degradation in those developing countries, for the exotic minerals and metals to make EV batteries.

Ronald Stein

11) What are the negative implications of pursuing a Carbon Neutral policy?

Wind and solar energy are expensive options for energy

The Ongoing Fiction of Cheap Wind and Solar

- When considering the energy source supply cost of electricity, critical factors like reliability, infrastructure and subsidies need to be considered.
- Traditional power plants, like gas and coal, can ramp up to supply electricity when it's needed most. Wind and solar lack this fundamental capability.
- Wind and solar need backup sources of electricity, such as natural gas-fired plants that run in standby mode or massive battery banks that store excess energy. This adds to the cost.
- Both offshore and onshore wind installations are typically in remote locations far from areas that need the power. The high-voltage transmission systems and underwater cables required to move the electricity are additional costs not taken into account.
- Because the electricity produced by wind and solar is distinctly different from turbine-generators, additional equipment is needed to maintain operational balance in the grid.
- The levelized full system cost of electricity (LFSCOE) is a truer measure of effectiveness in electricity production. This adds to the system-wide costs of transmission, storage, curtailment, and backup. The result is that wind and solar are expensive energy options..

The Ongoing Fiction of Cheap Wind and Solar - CO_2 Coalition

https://x.com/PeterDClack/status/1954035639500038283

Wind farms to blame for rising energy bills, says Ofgem – Yahoo

Why read The Unpopular Truth… – The Unpopular Truth Problems with wind and solar power

pic.x.com/Qc4sXAPTUJ The catastrophic cost of energy consequences of Net Zero

Uk_True_Cost_Of_Electricity (1).pdf Paul Burgess

Full System Costs of UK Onshore, Offshore and Floating Wind … Paul Burgess

Too Much Wind and Too Much Sun - USSA News

11) What are the negative implications of pursuing a Carbon Neutral policy?

Wind and solar energy are expensive options for energy Tilak Doshi

Why the UK and EU Keep Doubling Down on Net Zero Dogma in the Face of Spiralling Economic Dysfunction

- the UK and EU's response has been to double down: more electrification (the EU targets 50% by 2040), more wind and solar. This is despite the unmitigated disaster of Germany's *Energiewende* leading to economic suicide and deindustrialisation.
- The full system cost includes the cost of grid upgrades required to connect remote solar or wind farms to power demand centres in cities, backup gas plants for when there is no sun or wind, curtailment payments for when there is too much sun or wind, CfD subsidies to attract wind and solar investors, grid balancing services, and policy levies needed to integrate intermittent renewables. It is time to stop pretending renewables are cheap.
- Once "policy costs" are added — CfDs that guarantee above-market prices for 15–20 years, grid enhancement charges, backup capacity payments and the rest — retail bills soar.
- Today, with only about 20% of primary energy used as electricity (the rest for transport, heating, and industrial heat), the EU and UK propose to "electrify everything" while simultaneously chasing fossil fuels out of the grid. The result? Grids operating with dangerously low reserve margins, over-exposed to fickle, weather-dependent renewables and requiring massive state subsidies. The empirical evidence is unambiguous. Countries and states furthest advanced in renewables penetration — Germany, California, South Australia — suffer the highest electricity prices.

11) What are the negative implications of pursuing a Carbon Neutral policy?

Wind and solar energy are expensive options for energy Tilak Doshi

UK and EU Keep Doubling Down on Net Zero in the Face of Economic Dysfunction

- Chart plotting wind-plus-solar share against retail prices across jurisdictions shows the high cost impact of added wind and solar power



- Germany's *Energiewende* has driven deindustrialisation, with firms like BASF, Volkswagen, and Mercedes relocating or cutting capacity. South Australia's much-vaunted renewable experiment has produced volatile prices and repeated calls for more gas backup.
- The cost of Renewables Obligation subsidies has now topped £100 billion, according to Government statistics recently released. Subsidy payments are increased in line with RPI inflation every year, but at 2025 prices the bill since 2010 has now risen to £101.2 billion. Last year, renewable generators received subsidies of £7.7 billion. Two thirds go to wind and solar farms, which we are told are the cheapest forms of energy.

Why the UK and EU Keep Doubling Down on Net Zero Dogma in the … Tilak Doshi Renewables Obligation Subsidies Top £100 Billion – The Daily Sceptic

11) What are the negative implications of pursuing a Carbon Neutral policy?

Concerns about wind and solar electricity energy supplies Dr. Lars Schernikau

The negative environmental impact of wind and solar at system level is much higher when one takes an honest look at the required overbuild, short duration storage, long duration storage, thermal backup and larger and more complex network integration and transmission infrastructure. That is because of their low net-energy efficiency (eROI) caused by
Low energy density, intermittency and short operational lifetime.
The problem with the "Primary Energy Fallacy", the notion that a wind and solar-based grid system is more efficient than a coal, gas, or nuclear-based grid system is just incorrect. Because of wind and solar's intermittency and unpredictability, they require backup or storage, and conversion and transmission is much more complex. There are many other inefficiencies. Wind and solar-based power grids are largely NOT sustainable, mainly because of the vast overbuild required due to low energy density per m2 (volumetric) and per kg (gravimetric) of wind and solar-based systems, leaving a big environmental footprint to be considered.
(See **Are wind and solar up for challenge**).
Solar and wind are projected to dominate 2026 electricity additions, with only a small amount of natural gas (7%) in the mix. **This is a huge problem for electricity prices,** because we pay for solar and wind *on top of* the cost of reliable power sources, not instead of! **Alex Epstein Energy Talking points**

High energy costs deepen hardship, particularly for low-income groups, and hold back industrial development, not just in developing countries. This is a universal truth and should be understood Rethinking the cost of electricity – The Unpopular Truth

11) What are the negative implications of pursuing a Carbon Neutral policy?

Concerns about wind and solar electricity energy supplies Dr. Lars Schernikau

In Germany, solar is 10x more expensive than domestic lignite

Today's energy debate surrounding solar and wind, tends to focus on generation costs in isolation, while largely ignoring the complexity of the system required to make electricity usable: backup capacity, grid expansion, storage, balancing, system stability, and the declining market value of intermittent generation as penetration rises.

The energy conversation is becoming more important globally with rising electricity demand, AI infrastructure growth, geopolitical uncertainty, and increasing pressure on grids.

Germany is clearly making a mistake by continuing to expand what is, in my view, the most expensive and least reliable source of electricity: SOLAR



Figure 1: Germany's 2026 cost of electricity | Source: Schernikau based on assumptions detailed in the Appendix

11) What are the negative implications of pursuing a Carbon Neutral policy?

Concerns about wind and solar electricity energy supplies *Ronald Stein*

The ignorance of the "energy ILLITERATE" leaders is shocking, as they NEVER explain how wind turbines and solar panels can provide TRANSPORTATION FUELS: jet fuel for military and commercial aircraft, diesel fuel for trucks and construction equipment, gasoline fuel for cars, bunker fuel for merchant and cruise ships, and the exotic fuels for the space programs!

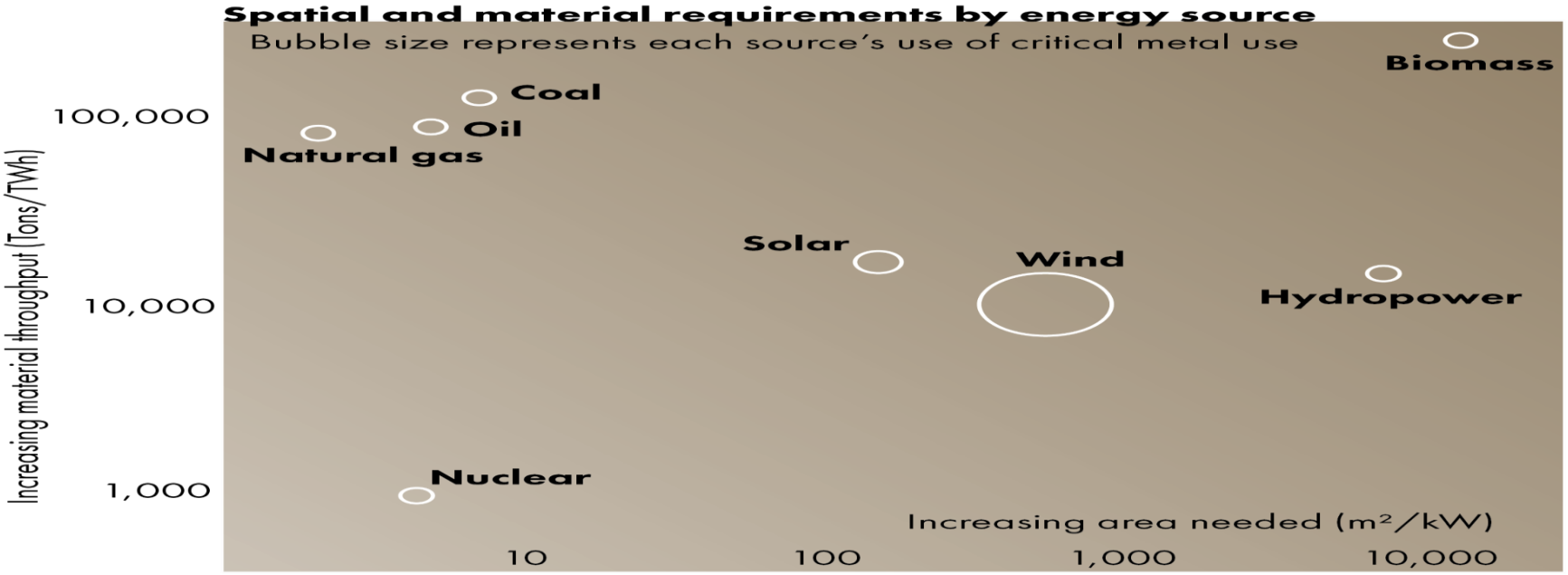
Energy "REALITY" is that wind turbines and solar panels ONLY generate electricity, but CANNOT make any products or transportation fuels for life as we know it. Planes, ships, trucks, and cars run on transportation fuels manufactured FROM crude oil by multi-billion-dollar refineries.

There is NO case for unreliable electricity, as wind and solar CANNOT make any transportation fuels or products for the 8 billion on this planet.
The world has become dependent on the products and transportation fuels MADE FROM oil, the same products and transportation fuels that unreliable green electricity from Wind and Solar CANNOT make!

https://co2learningcenter.com/videos/#how-the-energy-grid-works;

11) What are the negative implications of pursuing a Carbon Neutral policy?

Energy from renewables cannot support the world's energy needs – Glenex Energy



The energy yields of offshore wind turbines are overestimated by up to 50% in national policy documents. This conclusion is based on an analysis of operational data from 72 wind farms. Bert Weteringe, author of the book Down Wind

Jersey Climate Forum Energy Options Conference https://anenergyconference4jerseyci.co.uk/

"The expansion of large-scale solar farming in the United Kingdom is a policy built on selective arithmetic and seasonal blindness. It counts summer megawatts without accounting for winter silence. It presents installation costs without incorporating maintenance, degradation, replacement and disposal. It treats the loss of productive farmland as an acceptable externality rather than an irreversible cost. And now, as resistance to ground-mounted solar grows, proponents are turning to Britain's lakes and reservoirs — proposing to extend a poorly understood technology into water bodies whose ecological integrity serves far more important purposes than energy generation." *Sam Lowry*

11) What are the negative implications of pursuing a Carbon Neutral policy?

Solar panels have a number of installations, operation and design concerns

Solar panels experience serious maintenance concerns

- For example, Johnson & Phillips' power engineering firm recently replaced four transformers across different solar sites in the UK – none older than five years. They also had to rebuild switchboards that suffered flashovers – a short circuit due to basic design flaws.

Key breakdown issues beyond design flaws include:

- **Thermal cycling:** Solar panels, in particular, experience extreme day-night thermal expansion and contraction of transformers. The transformer seals experience positive pressure during the day can force oil out of this system and negative pressure at night can draw in moist air, which then degrades insulation on the components, eventually leading to internal arching
- **Underspecified materials:** Widespread use of aluminum for the coils of wire around the transformer cores, which, when poorly matched with duty cycle and environment, can degrade quickly.
- **Harmonic and power quality**: The inverters that convert the direct current generated by a solar farm into the alternating current used by the grid can dump so-called harmonic currents back into the system. These can accelerate wear on transformers and switchgears.

11) What are the negative implications of pursuing a Carbon Neutral policy?

Solar panels have a number of installation, operation, design and environment concerns

Design and Operational concerns include:

- ***Poor design and installation:*** There are shocking layouts, cramped substations, inadequate protection settings and cable installations that can't meet real load.
- **Training and oversight:** Some of the engineers involved in the installations are barely trained, yet these people are wiring up critical national infrastructure.
- **Standards without enforcement:** The UK has a host os standards – ENA guidelines, BS codes, IEC rules – all meant to ensure safety and longevity. But standards are meaningless without enforcement. In many of these projects, there's little accountability past the energization date. By the time failures start, ownership has changed.
- **Environmental Concerns:** The push for solar energy is carving a path of destruction through the Thar Desert in India's Rajasthan, where native species maintain a delicate balance of life now being sacrificed.

Solar Blasphemy in India's Thar Desert - CO_2 Coalition

Keir Starmer's 'EU Reset' tethers the UK to the EU's green dystopia

https://tilakdoshi.substack.com/p/starmers-eu-reset-tethers-the-uk

The hidden subsidies behind UK solar expansion Paul Burgess

Via Reuters, the Commerce Department yesterday announced preliminary antidumping duties on solar cells and panels from India, Indonesia and Laos, "the latest in a string of tariffs imposed over a decade on solar imports from Asia."

11) What are the negative implications of pursuing a Carbon Neutral policy?

Solar panels have added operational concerns

During periods of high solar radiation (sunny days) combined with low weekend or holiday demand, the grid gets flooded with "must-take" renewable energy and there's an increasing difficulty in balancing the power grid. Unlike traditional power plants, which can be throttled more easily, the fluctuating nature of solar and wind requires complex interventions to prevent grid overloads.

The oversupply of volatile solar energy has led to record negative prices in European power markets. This phenomenon is driven by the massive expansion of solar power, which floods the grid with renewable energy during sunny days and low-demand periods.

As a result, producers must pay consumers to take electricity off the grid, leading to negative prices. The situation is exacerbated by the grid's inability to balance supply and demand effectively, especially during periods of high solar radiation and low weekend or holiday demand.

This oversupply creates a significant challenge for the energy sector, requiring complex interventions to prevent grid overloads and ensure market stability.

Because renewable energy operators are often guaranteed a fixed feed-in tariff regardless of market prices, the "gap" between the negative market price and the guaranteed remuneration must be covered by subsidies (often financed through taxes or levies). The rapid expansion of weather-dependent renewables without adequate storage or flexible demand leads to massive economic inefficiencies and puts the industrial base at risk due to high system costs resulting from an oversupply of unstable generation, but a dramatic lack of flexibility and storage capacity. Oversupply Of Volatile Solar Energy Leads To Record NEGATIVE Prices!

11) What are the negative implications of pursuing a Carbon Neutral policy?

Concerns about using heat pumps to heat buildings — Dr. Lars Schernikau

Heat pumps use primarily electricity from the grid for heating by transferring heat from one place to another **Gas/Oil** = use primarily chemical energy for heating using combustion

In most parts of the industrialised world, 60-75% of buildings are still heated using gas and oil, some use biomass-based heating or district heating, and a small fraction (less than 10%) is electricity

Heat pumps cannot function without electricity, while gas or oil-based boilers work with very little electricity for ignition, pumping, control boards, etc.

When peak power consumption is at it's highest, usually in winters, when solar and wind often don't perform very well, we then need more electricity to "power" the heat pump.
When heating is most needed during cold spells (a) heat pumps lose efficiency and (b) the share of conventional fuels such as coal and gas rises to ensure reliability.
More importantly, is the winter peak power logic. An additional heat pump that was not there before will require additional marginal power in that hour, increasing peak power demand. ***Peak power demand, especially during winters, will be mostly met by the usage of gas and coal.***
Heat pumps depend entirely on electricity and increasingly more on digital systems. Smart grids and remote monitoring expands the attack surface. A boiler with stored fuel can run largely independent of the wider system. A heat pump, on the other hand, cannot. If the grid fails, heating stops immediately. Heat pumps for all…or maybe not? – The Unpopular Truth

11) What are the negative implications of pursuing a Carbon Neutral policy?

Concerns about using heat pumps to heat buildings — Dr. Lars Schernikau

Fact 1: Transferring heat from place to place may take 3x less work (or energy) than cooling or heating directly
Fact 2: COP or CP = Coefficient of Performance DOES NOT equal the system efficiency of a heat pump!
Fact 3: The coefficient of performance of heat pumps decreases the colder it gets
Fact 4: Marginal winter peak power demand will mostly be served by gas and coal.
Fact 5: Heat pumps are not secure in urban areas with higher risk grid connections, nor are they sustainable relying on grids with high wind and solar penetration.
Fact 6: Heat pump systems (especially outdoor air heat exchange systems) are prone to bursting when exposed to sub-zero temperatures during power interruptions for extended periods of time.
Fact 7: Subsidies are correlated with higher heat pump adoption, particularly when they are stable, generous, and combined with other policies in this regard.

The January 2026 report from the Green Britain Foundation, based on a Censuswide survey of 1,001 heat pump owners carried out online between 9th and 14th July 2025, found that 66% said their heating became more expensive than with their old gas boiler. Only 15% reported lower bills.

Heat pumps for all…or maybe not? – The Unpopular Truth

11) What are the negative implications of pursuing a Carbon Neutral policy?

Offshore Wind Facilities Are Poisoning the Seas

- Offshore wind turbines are polluting surrounding waters with more than 220 chemicals, metals, and materials, according to new research published in the journal *Marine Pollution Bulletin*, conducted by an international team of 21 researchers at universities and research institutes in Germany (lead author), Belgium, Denmark, France, the Netherlands, Norway, Spain, and the United Kingdom.
- The study, partly a review of existing literature, found offshore wind turbines emit or slough off at least 228 organic and artificial chemical substances, many of which European regulators consider toxic, potentially cancer-causing, endocrine-disrupting, or "forever chemicals," with as-yet little-understood impacts on the marine environment.
- The substances include metals such as copper and zinc, with known toxicity; marine vertebrates and fish; chemicals used to fight corrosion and fouling from algae; oils and other lubricants; and chemicals used for fire suppression.
- The scientists write: Major gaps in assessing the impact of the compounds are identified, including challenges in environmental monitoring, numerical modelling and assessing the toxicity of individual and mixtures of chemical contaminants on marine organisms and humans consuming potential OWF aquaculture products. A risk-based prioritisation is essential to target the compounds of higher concern and overcome costs linked to assessing a wide variety of chemical contaminants.
- This study doesn't even include the microplastics and fiberglass shed from blade edges as weather and wind erode them. Research from Scotland and Scandinavia has detailed the thousands of tons of microplastics polluting the ground around industrial wind facilities. With the wind and other conditions being even harsher at sea, it is estimated that the volume of microplastic shedding will be 40 percent greater **Source:** Marine Pollution Bulletin; The Fisherman; Yahoo News

Balsa Trees Illegally Logged for Wind Power - Watts Up With That?

11) What are the negative implications of pursuing a Carbon Neutral policy?

Offshore Wind Facilities Negatively Impact Weather Conditions

- Measured warming caused by grid-scale wind farms
  1. slowing wind speeds reduce evaporation, reduce moisture in air
  2. reduced humidity in air leads to less rainfall
  3. drier air warms faster
  4. thermometers measure warmer afternoon temperatures
  5. warmer air reduces cloud formation, which results in more warming

Here's how offshore wind farms in the North Sea interrupt moisture transport — and why this is one of the strongest climate side-effects discovered in the past five years.

1. Wind farms extract momentum from the air A single modern 15 MW turbine slows the wind by ~40–50 % directly behind it. When you cluster 100–300 turbines (as in German wind farms like Borkum Riffgrund, Gemini, Hornsea), the wakes merge into a regional wind-speed deficit of 8–15 % that stretches 50–100 km downwind (Platis et al., 2020; Siedersleben et al., 2020).

2. Lower wind speed = lower surface friction = less evaporation Evaporation rate $\propto$ wind speed^2. A 10 % wind-speed drop reduces latent heat flux (evaporation) by 15–25 % inside the wind-farm area. $\rightarrow$ Less moisture is lifted from the sea surface into the atmosphere. (Christiansen et al., 2022; Akhtar et al., 2022)

3. The moisture deficit is carried inland by the prevailing westerlies North Sea air masses move east/southeast toward Germany, Denmark, Netherlands. Satellite data (Sentinel-1 SAR) show that the dry "footprint" reaches the German coast within 1–2 hours and can be traced 200–300 km inland on days with steady westerly flow.

https://www.linkedin.com/posts/larsschernikau_heres-exactly-how-offshore-wind-farms-in-activity-7392949056609628160-zuvz?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAACWDIBASCdCewbOMLXSA38-vnieLbUl3M

11) What are the negative implications of pursuing a Carbon Neutral policy?

Offshore Wind Facilities Negatively Impact Weather Conditions

4. Measured drop in humidity over land Two independent studies using weather stations and aircraft campaigns found:
Specific humidity 0.3–0.8 g/kg lower over Lower Saxony and Schleswig- Holstein when air passed through large wind-farm clusters (Akhtar et al., 2022 – campaign over Borkum cluster).
Dew-point temperature down by 0.5–1.2 °C up to 100 km inland on summer afternoons (Siedersleben et al., 2020).
5. Reduced moisture → less precipitation downwind Model studies with WRF-LES (Weather Research & Forecasting model at 100 m resolution) show:
5–12 % less summertime convective rainfall over northern Germany when all planned 112 GW of North Sea wind farms are included (2022–2050 build-out scenario).
Largest signal: –8 % rain in Lower Saxony on days with westerly flow (Hasager et al., 2023; Pryor et al., 2025).

6. Feedback loop: drier air warms faster → even less rain Drier air has lower heat capacity → same solar input raises air temperature more. Observed: +0.4 to +1.0 °C warmer afternoons over northern Germany when air has passed through wind farms (Akhtar et al., 2022). This extra warmth further suppresses cloud formation and rainfall.

https://www.linkedin.com/posts/larsschernikau_heres-exactly-how-offshore-wind-farms-in-activity-7392949056609628160-zuvz?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAACWDIBASCdCewbOMLXSA38-vnieLbUI3M

11) What are the negative implications of pursuing a Carbon Neutral policy?

Offshore Wind Doesn't Deliver as Promised

Research published in the journal *Cell Reports Sustainability* indicates physics, aerodynamics, and efficiency-related problems mean offshore wind turbines can never live up to their promise for electric power delivered per turbine or installation and is confirmed by an examination of data from existing turbines in operation.

Even the most efficient designs had steep "operational losses," meaning when governments forecast how much electricity a particular facility can produce and how much greenhouse gas emissions it will prevent or offset, they are grossly overstating the value of the facility. Thus, the high cost of wind farms as a means of fighting climate change may never be justified.

Various governments overestimated the electricity they could expect and the value of particular wind facilities. Specifically, the researchers found,

- Dutch offshore wind programme predicted capacity factors nearly 50% above feasible limits;
- France overestimated the power produced by its offshore wind facilities by 22 percent;
- Belgium overestimated the electricity produced by offshore wind facilities by 24 percent;
- The U.S. wind facilities underproduced by 13 to 20 percent.

Such widespread discrepancies underscore a global risk of inflated expectations, potentially leading to misguided investments, infrastructure planning failures, and energy shortfalls.

Climate Change Weekly #568 **Sources:** Brussels Signal EU; Cell Reports Sustainability

https://www.linkedin.com/posts/larsschernikau_heres-exactly-how-offshore-wind-farms-in-activity-7392949056609628160-zuvz?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAACWDIBASCdCewbOMLXSA38-vnieLbUI3M

The Garroting of Big Wind - Robert Bryce

Research Findings

Pages refer to section above that supports findings

1) **Is present Global Warming a man-made or a natural phenomenon? Pages 6 - 23**

   Answer: Global Warming is substantially and historically a natural phenomenon

   Present temperature changes are not different from historic temperature changes and the Earth is now in one of the coldest periods in its history. There is nothing unusual in today's warming.

2) **Are warmer temperatures and higher CO_2 levels causing a climate crisis? Pages 24 - 46**

   Answer: No, warmer temperatures and CO_2 levels are not causing a climate crisis

   Forest fires, hurricanes, floods, tornadoes, heat waves, droughts and other weather-related concerns have not increased with recent higher CO_2 and temperature levels.

3) **Are higher CO_2 levels and warmer temperatures good or bad? Pages 47 - 78**

   Answer: Higher CO_2 and warmer temperatures are good for humans and plants

   Plants and crops benefit and grow better with higher CO_2. Mankind has also progressed and done better under warmer temperatures. Over time, weather-related crises have not increased.

4) **Are CO_2 atmosphere levels dangerously high or historically low? Pages 79 - 84**

   Answer: CO_2 levels are at historically low levels when viewed over geologic time

   CO_2 levels have been dropping over the last 150 million years to a recent low of 180 ppm; a further drop of only 30 ppm would have ended all plants and therefore all life on Earth. With mankind's added CO_2 emissions, today's CO_2 level rose to about 415 ppm. An optimum level for plants would be between 1,000 to 2,000 ppm, but for humans, serious physiological effects begin above 2,000 ppm.

Research Findings

5) **What could have caused changes in CO_2 levels over geologic time? Pages 85 - 96**

Answer: Natural events have caused changes in CO_2 over geologic time

Cold oceans and plant life absorb CO_2 and concentrated carbon and CO_2 in limestone, coal, oil and gas deposits. Over geologic time, plate tectonics and volcanoes have added CO_2 at much higher amounts than recent mankind-induced CO_2 emissions and with no negative impact.

6) **Is climate change mainly caused by mankind's emissions of CO_2? Pages 97 – 116**

Answer: Mankind has increased CO_2 levels, but this is not causing major climate change

Temperatures and climate changed dramatically and well before mankind's recently added CO_2 emissions. Rates of recent temperature increases, glacial retreats and sea level rise have not changed with recent increases in CO_2. During glaciation periods, CO_2 levels changed after temperature changed and therefore could not be causing these specific temperature increases. Oceans cool, then absorb CO_2; oceans warm, then release CO_2. NASA states that climate change occurs because of changes in the Earth's solar orbit.

7) **What is the impact of CO_2 on climate warming? Pages 117 – 141**

Answer: Additional CO_2 will have a very minimal future impact on temperature

Mankind-added CO_2 has had an impact on temperatures, but likely a minor impact overall. Major factors that impact weather and climate include Sun intensity (day and night, seasons),Sunspot activity, ocean currents, clouds, plate tectonics and volcanoes. As CO_2 concentration increases, CO_2 has a less and less warming effect; adding more CO_2 has a logarithmically reduced impact.

Research Findings

8) **Is sea level rise and rate of rise unusual and a major concern? Pages 142 - 157**

Answer: Sea level rise has been modest over the last several hundred years. Correlating this gentle increase with higher CO_2 levels does not support causation. It is neither unusual nor unmanageable.

Sea levels have changed significantly over the Earth's entire history. Since the last glacial period, the earlier rapid r ate of sea level rise has recently reduced as the majority of land ice has already melted. Societies can adapt to the present rate of sea level rise (about 20 cm per 100 years) by implementing managed retreat, accommodating coastal change and protection with sea walls, dune rehabilitation and beach nourishment. There is no evidence that reducing our CO_2 emissions will reduce sea level rise or materially impact temperature.

9) **What about scientists' consensus regarding man-made Global Warming crisis? Pages 158 199**

Answer: The stated scientific consensus is false; many reputable scientists disagree

There is consensus that temperatures have been and are increasing and that mankind has increased CO_2 levels. However, there is no consensus regarding the degree to which mankind's CO_2 emissions are impacting temperatures or that this is causing a climate crisis.

10) **If CO_2 is good and the climate always changes, what about other fossil fuel pollutants and alternative energy adoption? Pages 200 - 211**

Answer: Focus on removing the actual pollutants at refinery levels, engine combustion process levels and at coal burning sites for electricity plants whilst pursuing economic and realistic energy transition replacement options, like mini-nuclear reactors, over time

11) **What are the negative implications of pursuing a carbon-neutral policy? Pages 212 - 241**

Answer: Overall energy supply, plant life, 3rd world economies and their ability to improve, animal life and the environment (land use, etc.) are all negatively impacted.

Research Findings
Questions and Findings from Dr. Les Hatton

1) **Is the current temperature rise of around 1 degree C per century unprecedented?**

   Answer: No. The last interglacial contained comparable rises and falls on over 250 occasions in the last 200,000 years and changes of twice this amount on 18 occasions.

2) **Has the earth been significantly warmer in the recent past?**

   Answer: Yes, in the last interglacial and it had nothing to do with anthropogenic effects.

3) **Do we have a climate catastrophe or emergency?**

   Answer: No. Given the number of times this has happened in the recent geological past without any help from us, it seems likely that the climate will be fine as it always has been. The current era is relatively cold and low in atmospheric CO_2, even with our efforts.

4) **Will life be OK if there is a several degrees C rise in temperature?**

   Answer: **Yes,** because it has been before when we were much less technologically capable many years ago, the temperature climbed by 2.05 degrees C in one century and then fell by 2.41 degrees C the following century. It has however, been much more threatened by temperature falls and the ensuing ice ages in the 800,000 years, as evidenced in the Vostok ice cores.

Les Hatton Ph.D. is a mostly retired mathematician, geophysicist and computer scientist who started his career in numerical weather prediction and climatology

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- **Dr. Roger Pielke Jr** Ph.D. in political science, all from the University of Colorado Boulder
- **Ian Plimer** Geologist
- **Dr. Jordan Peterson Keynote speaker, professor au U of Toronto, clinical Psychologist and author of books**
- **Kathryn Porter** an independent energy consultant, Master's degree in Physics and an MBA
- **Dr. Terry Richard PhD Engineering Physics** experience in advanced technology and financial organizations,
- **Lord Matt Ridley** a science and environment writer, journalist and businessman
- **Dr. John Robson** Historian and Journalist
- **Dr. M.J. Sangster** Author of The Real Inconvenient Truth: It's Warming, but It's Not CO_2
- **Dr. Lars Schernikau** Commodity Trader, Energy Economist, Entrepreneur, Author
- **Michon Scott** and **Rebecca Lindsey P**aper of earth temperature history
- **Dr. Nir Shaviv** Professor at the Racah Institute of Physics of the Hebrew University of Jerusalem.
- **Michael Shellenberger** Environmentalist

74 Referenced Scientists, Professionals

- **Dr S. Fred Singer** Atmospherc physicist, emeritus professor of environmental science, U. of Virginia
- **Dr. William H. Smith** doctorate Princeton University, Professor of Earth and Planetary Sciences, Washington University St. Louis, Missouri,
- **Lawrence Solman E**xecutive director of Energy Probe an environmentalist group
- **Dr. Willie Soon** –Astrophysicist and geoscientist Center for Environmental Research and Earth Sciences
- **Jim Steele** Master's degree in ecology from San Francisco State University
- **Jerger Peder Steffensen,** Curator Nels Bohr Institute Department of Geophysics
- **Ronald Stein** Engineer, energy consultant, author on energy, environmental policy
- **Dr. Henrik Svensmark** Professor in the Division of Solar System Physics Danish National Space Institute I
- **Dr.Javier Vinos,** Researcher Howard Hughes Medical Institute, UK Medical Research Council, Spanish Scienticic Research Council
- **Dr.Van Wijngaarden** is a professor in the Department of Physics and Astronomy at York University in Toronto
- **Anthony Watts** A former television meteorologist and current radio meteorologist
- **Dr. Mathew M . Wielcki** Earth Science Professor
- **Gregory Wrightstone** Geologist a Senior Fellow at the Cornwall Alliance, Executive Director CO_2 Coalition
- **Professor Antonino Zichichi** holder of Italy's, Knight Grand Cross of the Order of Merit of the Italian Republic

Research Findings

Biography of Graeme Phipps compiler of this presentation material

- A **professional Geophysicist/Geologist** and **director of 2 oil and gas companies** with over 50 years experience in the International oil and gas industry. Graeme has spent **21** years as director of various companies (11 different Boards, 7 public, with roles on Audit, Reserves, Compensation, Corporate Governance, EH&S and Special Committees plus being Chairman of one public company, plus the principal of Phipps and Associates – an oil and gas consulting firm). Graeme was President of CEP International/PetroKamchatka Plc./East Siberian Plc. (2007 – 2020). In 2005, Executive VP of PetroKazakhstan to become President and CEO which was successfully sold for $4.2B in late 2005. Exploration and International VP for Petro-Canada (2001 -2002) and VP Corporate Planning and VP Canadian Division for Nexen (1994 -2001). Graeme spent his first 20 years (1974 -1994) with Esso Resources and Exxon in technical, operational and management roles.
- Oil and gas experience in the Western Canada Basin, the Beaufort Sea area, the Arctic Islands and off the East Coast in Canada, the Gulf of Mexico USA, Yeman, North Africa, Romania, China, Gambia, Australia, Malaysia, Indonesia, Nicaragua, UK North Sea, Kazakhstan, Russia.
- Consulting and advisory experience (2002 – present) as the principal of Phipps and Associates, an Oil and Gas Executive Management consulting company, plus 5 years experience in Corporate planning: three years as VP Corporate Planning and Business Development at Nexen and two years with Exxon in their NY head office.
- Presently a director Tundra Oil and Gas Ltd and Buried Hill Serdar Ltd. and recently was a member of the Public Accounts Committee, Government of Jersey

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Reference Material Source David Burton

Introductions:

1. *Climate Curious* (alt or here), by environmentalist David Siegel: What he learned about climate change. (This is his web site.)
2. PragerU videos on climate, energy, and the environment (most of them are about five minutes long, by top experts).
3. 2018 Annual GWPF Lecture: *Global Warming For The Two Cultures*, by Prof. Richard Lindzen.

Debates:

4. BestSchools: Karoly/Tamblyn—Happer Dialogue on Global Warming, 2016-2017. An in-depth, balanced, written debate, between leading experts on both sides of the issue.
5. The SOHO Forum in Manhattan has hosted two debates between a top scientist on each side of the climate debate:

- On April 15, 2019 Craig Idso and Jeffrey Bennett debated the question, "Is Carbon Dioxide Endangering the Planet?" (video)
- On August 15, 2022 Steven Koonin and Andrew Dessler debated the question, "Do We Need to Rapidly Convert to Renewables To Save the Planet?" (video)
- On October 27, 2022 the Steamboat Institute hosted another debate between Steven Koonin and Andrew Dessler, this one at Oklahoma State University. They debated the question, "Does climate science compel us to make large and rapid reductions in greenhouse gas emissions?" (video) ↥

6. IQ2US Debate: Is Global Warming A Crisis? (video) was a 2007 televised debate between three top climate experts on each side, which is still surprisingly timely.

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Amicus brief:

7. Three top scientists briefed the judge on climate science, in the 2018 *Calif v. BP* lawsuit. It was educational for him, and it probably will be for you, too.

Physics & geophysics:

8. The warming effect of CO_2 and other so-called "greenhouse gases" is through what is called "radiative forcing." For an excellent discussion of it I recommend this 2014 UNC Physics Colloquium by Princeton atmospheric physicist Prof. Will Happer.

9. Wilson, 2012, Simple model to estimate the contribution of atmospheric CO_2 to the Earth's greenhouse effect.

10. Pierrehumbert, 2011, Infrared radiation and planetary temperature (and discussion).

11. In 2014, the American Physical Society held a seven hour long "Climate Change Statement Review Workshop," in which a panel of leading climate experts discussed the science of climate change, including a lot of discussion of climate sensitivity. The transcript is a daunting 573 pages long, but that's double-spaced and only about 135 words per page, and it is very educational.

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How much warming are we talking about, anyhow?

The WMO estimates that since the "pre-industrial" mid-to-late-1800s (late Little Ice Age) the Earth has warmed an average of 1.15±0.13 °C. So, what is the significance of that?

12. 1°C is the temperature change you get from an elevation change of about 500 feet.

13. At mid-latitudes, 1°C is about the temperature change from a latitude change of about 60 miles.

14. 1°C is less than the hysteresis (a/k/a "dead zone" or "dead band") in your home thermostat, which is probably 2-3°F. Your home's "constant" indoor temperatures are continually fluctuating that much, and you probably don't even notice it.

15. In the American Midwest, farmers can fully compensate for 1°C of climate change by adjusting planting dates by about six days.

16. Growing ranges for most important crops include climate zones with average temperatures that vary by tens of °C. Major crops like corn, wheat, potatoes and soybeans are produced from Mexico to Canada. Compared to that, 1°C is negligible.

Sea-level rise has not significantly accelerated:

https://sealevel.info/1612340_Honolulu_thru_2025-04_vs_CO2_annot1.png(

Many sites show no detectable acceleration, and at some sites sea-level is falling. The best studies of large numbers of high-quality coastal sea-level measurement records have reported detecting a negligible average acceleration of about 0.01mm/yr². If that amount of acceleration were to continue for 150 years, it would add four inches to sea-level.)

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17. www.sealevel.info (shameless promotion of my own web site -*DAB*).
18. Clickable thumbnails for NOAA's entire 2016 list of 375 long term trend tide stations.
19. "Acceleration" primer. (Do you know how to recognize "acceleration" in a graph?)

Hurricanes & tropical cyclones are not worsening:

20. Lin & Chan (2015), Recent decrease in typhoon destructive potential and global warming implications. *Nature Communications*, doi:10.1038/ncomms8182.

Klotzbach & Landsea (2015), Extremely Intense Hurricanes: Revisiting Webster et al. (2005) after 10 Years. *Journal of the American Meteorological Society*, doi:10.1175/JCLI-D-15-0188.1.

Chand *et al.* (2022), Declining tropical cyclone frequency under global warming. *Nat. Clim. Chang.* **12**, 655661. doi:10.1038/s41558-022-01388-4

21. Global Hurricane Frequency graph (twelve month running sums), from ClimateAtlas.com/tropical/.

22. Global Tropical Cyclone Accumulated Cyclone Energy graph (ACE), from ClimateAtlas.com/tropical/ (or similar but older graph from wunderground.com).

23. Alimonti & Mariani (2023). Is the number of global natural disasters increasing?, *Environmental Hazards*, doi:10.1080/17477891.2023.2239807. (See also these discussions of their 2022 paper: [1][2][3].)

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Tornadoes are becoming less destructive:

24. 2018 US tornadoes lowest in 65 years of record-keeping, by meteorologist Anthony Watts.
25. NOAA: U.S. Annual Count of Strong to Violent Tornadoes (F3+), 1954 through 2014 (graph).

NOAA stopped updating that graph in 2015, but our friends at Heartland have extended it with 2015-2024 data:

26. Climate at a Glance: Tornadoes, by Heartland Institute (graph).
27. WoodTV: Strong to Violent Tornadoes in the U.S. Trending Downward, by meteorologist Bill Steffen (graph).
28. Simmons, Sutter & Pielke (2013). Normalized tornado damage in the United States: 1950-2011, *Environmental Hazards*, Vol. 12, No. 2, 132 147, doi:10.1080/17477891.2012.738642.
29. Zhang, *et al* (2023). Time trends in losses from major tornadoes in the United States. *Weather and Climate Extremes*, Volume 41, 100579. doi:10.1016/j.wace.2023.100579.

Droughts are not worsening (and drought impacts are decreasing):

30. Global integrated drought monitoring and prediction system (and graph)
31. U.S. droughts are not worsening: NOAA NCDC U.S. percentage very wet or very dry (and graph).
32. European droughts are not worsening, either (and graph).

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Reference Material Source David Burton

Climate change is not worsening forest fires:

33. The main factors affecting fires are land management and forestry practices.[2] Contrary to the shockingly dishonest propaganda from some quarters (like the misnamed factcheck.org site), global warming has negligible impact on wildfires.
34. NASA satellites monitor fires from orbit, and they've measured a decreasing trend in fires. NASA reports that, *"...MODIS [satellite instruments have measured] a decrease in the total number of square kilometers burned each year. Between 2003 and 2019, that number has dropped by roughly 25 percent."* The percentage of the globe which burns each year has been declining since 2002. In 2022, the world hit a new record-low of 2.2% burned area.
35. If warmer temperatures significantly worsened fire risks, then in the United States forest fires would mostly occur in the South. But most large U.S. forest fires have been in the North. The worst forest fire in American history was in chilly Wisconsin, in October, 1871, when CO_2 (estimated from ice cores) was only about 288 ppmv. That one fire consumed about 1.2 million acres, and it is believed to have killed at least 1200 people. Many of them died of hypothermia, while trying to shelter from the fire in the frigid Pestigo River.
Here are some additional resources on U.S. fires: [1] [2] [3] [4] [5] [6a/6b]

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Current temperatures are not unprecedented:

36. Scientists call warm periods, like the current warm period, "climate optimums." Current globally averaged temperatures are warmer than they've been in hundreds of years, but probably similar to temperatures during earlier climate optimums, like the Medieval Warm Period, the Roman Warm Period, and the Bronze Age Warm Period. Most studies find that current temperatures are substantially lower than they were during the Mid-Holocene Climate Optimum [2] [3] [4] [5], and several degrees below what they were during warmest part of the Eemian Interglacial.

Recent warming has not been unusually rapid:

37. Depending on which temperature index you choose (graph source), global temperatures are believed to have been rising at an average rate of between 0.06°C and 0.16°C per decade since 1958 (the start of the Mauna Loa CO_2 measurement record), as atmospheric CO2 level rose from 315 ppmv to 421 ppmv. Based on the trends in temperature and CO2 level, we could expect at most a little over 1°C of additional warming by 2100. That's a small change, and a very slow rate of change, in comparison with past natural changes in the Earth's temperatures. We know from ice core isotope analyses that over the last 100,000 years the Earth has experienced *dozens* of natural "Dansgaard-Oeschger events" (a/k/a "Greenland interstadials") in which temperatures changed at rates as rapid as several degrees per decade.

(*Caveat:* The most rapid changes are seen in Greenland ice cores, but Greenland's temperature changes tend, in general, to be at least twice as rapid as globally averaged temperature changes, due to "Arctic amplification.")
Those much larger and more rapid (but 100% natural!) temperature changes are known to have been globally synchronous, though much less abrupt in the southern hemisphere. They persisted for hundreds or (more typically) thousands of years — and nobody knows with certainty why they occurred.
Fortunately, those very large, abrupt temperature changes apparently did not cause mass extinctions. Mankind, polar bears, pikas, coral[2][3][4][5], and nearly every other existing species of animal and plant all survived those sharp climate changes. That suggests we needn't fear that the current (comparatively slight) warming trend could be catastrophic for them.

What about feedbacks?

38. Dozens of "feedback mechanisms" affect the Earth's climate. Some are "positive" (amplifying), others are "negative" (attenuating).

My web page on the topic includes an overview of how feedback systems work, how feedbacks are analyzed, and a comprehensive list of climate feedbacks, both positive and negative.

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What about the claimed "97% consensus"?

39. **Q:** Is there a 97% consensus for climate alarmism,
or did over 30,000 scientists say global warming is a hoax?
A: Neither. The best evidence is that manmade climate change is real, but modest and benign. The only consensus is that emissions of so-called "greenhouse gases" (GHGs) help warm the Earth. There's no consensus that it's harmful. A warmer climate is generally beneficial, which is why scientists call periods of warm climate "climate optimums."

Benefits of rising CO_2 levels

The peer-reviewed scientific evidence is compelling that the so-called "social cost of carbon" is negative, meaning that CO2 emissions are net-beneficial rather than harmful …for deserts & natural ecosystems

40) : "Greening" the Earth. …and for agriculture:

41. Carbonic Acid Gas to Fertilize the Air, *Scientific American*, Nov. 27, 1920.
42. The Center for the Study of Carbon Dioxide and Global Change ("CO2 Science") is a501(c) (3) educational charity, dedicated to factual climate science. They maintain a huge and extremely useful plant growth database, which catalogs scientific studies of the effects of varying CO2 levels on hundreds of plants.

Global Warming and CO_2

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43. The CO_2 Coalition is another 501(c)(3) educational charity, with a powerhouse board of scientific experts, dedicated to promoting scientific accuracy about the effects of CO_2 emissions. They have a wealth of excellent information, like this report about a new study showing that the "social cost of carbon" is negative. (*Note:* I am a member. -*DAB*)

44. The Global Warming Policy Foundation (GWPF) is a UK educational charity and think tank, with a prestigious Academic Advisory Council, focused on analysis of climate-related public policies and their economic and environmental implications. They've produced a superb series of in-depth reports (like this one on *The Good News About Carbon Dioxide*), shorter briefing papers, reports, notes and lectures.

45. Increased agricultural productivity and improved drought resilience due to rising CO_2 level are helping to make **famines increasingly rare**, for the first time in human history (see bar chart). That's a very, very Big Deal. Famine used to be a scourge comparable to war and epidemic. For comparison: COVID-19 has killed about 0.1% of the world's population (so far), WWII killed 2.7% of the world's population, and the catastrophic 1918 flu pandemic killed about 2%. But the nearly-worldwide drought and famine of 1876-78 killed about 3.7% of the world's population!

46. One of the fathers of modern climatology was the great Swedish scientist and Nobel laureate, Svante Arrhenius. He was the first person to quantify the warming effect of

mankind's CO_2 emissions, and he correctly predicted that it would benefit agriculture. He even predicted what is now called "polar amplification." In a 1908 book he wrote, ***"By the influence of the increasing percentage of carbonic acid in the atmosphere, we may hope to enjoy ages with more equable and better climates,… when the earth will bring forth much more abundant crops than at present, for the benefit of rapidly propagating mankind."***

Ten top climate blogs:†

47. Watts Up With That ("WUWT"), by Anthony Watts….For in-depth analysis
48. Climate Etc. by Judith Curry.
49. Roy Spencer.
50. Climate Audit, by Steve McIntyre.
51. Andy May.
52. Jo Nova….and, for balance, the four best alarmist blogs:
53. Moyhu, by Nick Stokes.
54. Science of Doom, by Steve Carson.
55. All Models Are Wrong (but some are useful), by Tamsin Edwards.
56. Protons for Breakfast, by Michael de Podesta.

Want more? long list of climate blogs and other useful sites, and **Quora Answers on climate change**

Sea Level info: https://sealevel.info/1612340_Honolulu_thru_2025-04_vs_CO2_annot1.png