

Global Warming and CO₂: Canada

Global Warming is not a crisis, nor is it caused by CO₂ emissions.

- **Canada's climate has not materially changed over the last 120 years.**
- **The global impact of Canada going "Carbon Neutral" has a negligible global impact and is very costly.**
- **Canada has 594.7 billion trees. Only 25.7 billion trees are needed to capture all of Canada's CO₂ emissions. Canada's lakes absorb even more CO₂ than these trees. Canada does not contribute globally to net global CO₂ emissions.**
- **Spending \$multi-billions on Canada going "Carbon Neutral" doesn't add up.**

[It Is Easy Going Green](#) [The value of added CO₂](#)

<https://natural-resources.canada.ca/our-natural-resources/forests/sustainable-forest-management/boreal-forest/13071>

Climate Crisis Scam <https://youtu.be/aT2SvIAkE5s>; Gregory Wrihstone

Cause of climate change <https://www.youtube.com/embed/1Mj16tiUyl4>

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

short interview clips <https://youtu.be/6bJsWeoNjmg> <https://youtu.be/zJng54iRhCM> <https://youtu.be/mdIGiBEBaQA>

short interview clips <https://youtu.be/fPWU23gzPSo> <https://youtu.be/uV61bIEEbzM> <https://youtu.be/IRWQ32FGX8o>

Global Warming and CO₂

Introduction

Given my background as a professional geologist and geophysicist who spent my career studying climate change implications, I was surprised by claims that mankind was causing a climate change crisis. I am aware of prior ice ages, climate change and changing sea levels that occurred well before mankind arrived. I am also aware that CO₂ is critical for plant life. This drove me to research this subject in much more detail.

“The ignorant person affirms, the scientist doubts, the wise person reflects.” — Aristotle
I offer you this material, along with connections to more extensive reports for your consideration.

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Video presentation: [Graeme Phipps Climate Change Presentation](#)

CO₂ Coalition interview with Graeme Phipps [Feed | CO₂ Coalition Discussion Group](#)

Global Warming and CO₂

Introduction

This presentation shows the results of my research into this subject, obtained from 40 books, 376 articles, 180 videos and 71 well-respected and competent scientists and professionals, all listed at the end of the presentation. The results of my ongoing analysis 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" where he states: **"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"**.

Please proceed with an open mind.

This presentation summarises findings relevant to Canada. For complete presentation:

<https://www.dropbox.com/scl/fi/j17geu1io7xrgxxklhay2/Climate-Change-Complete-version.pdf?rlkey=699qaq95xtuxqn7nftb3tp8uf&st=xkxcuslm&dl=0>;

Also, see the weekly science-based technical review of Climate Change issues (www.sepp.org).

[Bing Videos](#); Lord Monckton Net Zero Emissions – The Costliest Error of Physics and Economics in History

Climate The Movie <https://www.youtube.com/watch?v=A24fWmNA6IM>

Global Warming and CO₂

Introduction

Key Findings

- 1) Climate change is a very complex system, with CO₂ as a greenhouse gas playing a very minor and not dangerous role
- 2) Increased CO₂ in the atmosphere is beneficial and not damaging to the world. Carbon dioxide has two relevant properties: as a creator of food and oxygen, and as a greenhouse gas
 - i) Added CO₂ increases plant growth and is essential for plant life. The world is greening and plant and crop yields have significantly improved
 - ii) Added CO₂ is not causing increased extreme and dangerous weather events, which are not increasing compared to historic occurrences
 - iii) Added CO₂ has reached a near-saturation level. The CO₂ Greenhouse temperature impact changes logarithmically, requiring continuously doubling the amount of added CO₂ to obtain the same prior temperature effect and future added CO₂ makes a minimal temperature impact
 - iv) Added CO₂ does not bring about the proposed runaway temperatures. Historically, the globe experienced over 10 times the present CO₂ level without associated runaway temperatures

Global Warming and CO₂

Quotes from reputable, knowledgeable individuals

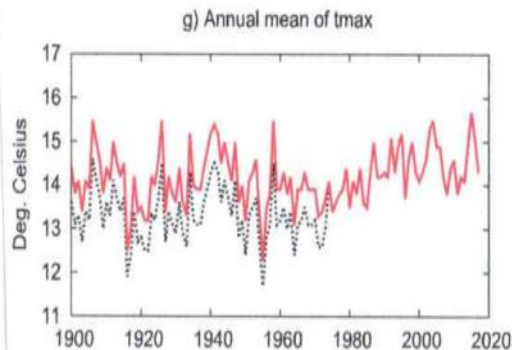
- 1} "Global warming is part of a natural cycle and there's nothing we can actually do to stop these cycles. The world is now facing spending a vast amount of money in tax to try and solve a problem that doesn't actually exist." Dr David Bellamy, Jan 18, 1933 – Dec 11, 2019, was an English academic, 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 CO₂ 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 - CO₂ 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 signed by 2,000+ scientists

What is Canada's climate situation and the threat of a "Climate Emergency"?

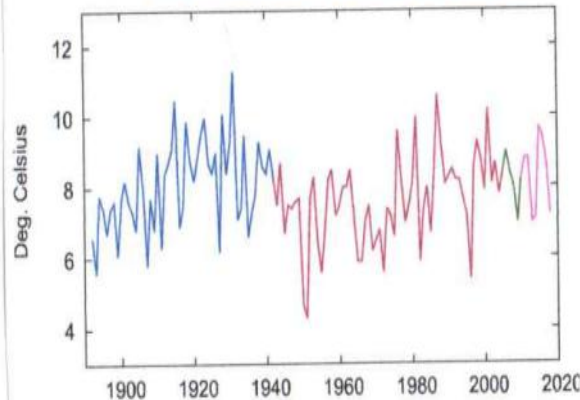
Canada's mean daily maximum temperatures since recording began show only a 1 to 2 °C mean change over the last 120 years; hot summer days and cold winter nights change of over 6°C

- Canada's annual average air temperatures taken from Victoria BC, North Battleford, Saskatchewan and Moncton, New Brunswick sites since 1900 show about a 1 to 2 Celsius increase over the last 120 years.
- At these rates, the impact on Canadian temperature over the next 100 years would be about 1 ° C.
- Canadian daily temperatures in major populated areas have ranged from winter night lows of -30C to summer day highs of +30C+ without serious issues
- A change of 1 °C against daily seasonal ranges of up to 60 °C is not a "Climate Emergency"!
- **Canada's Annual Mean of the Daily Maximum Temperatures 1900 to 2018**

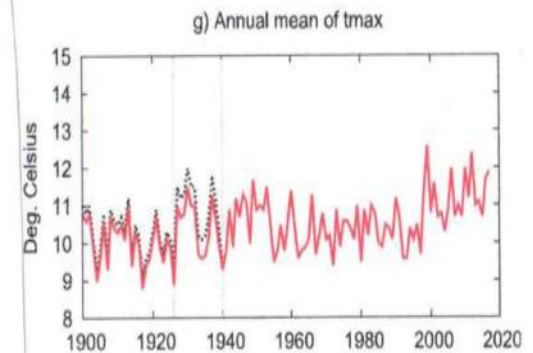
Victoria, British Columbia



North Battleford, Saskatchewan



Moncton, New Brunswick



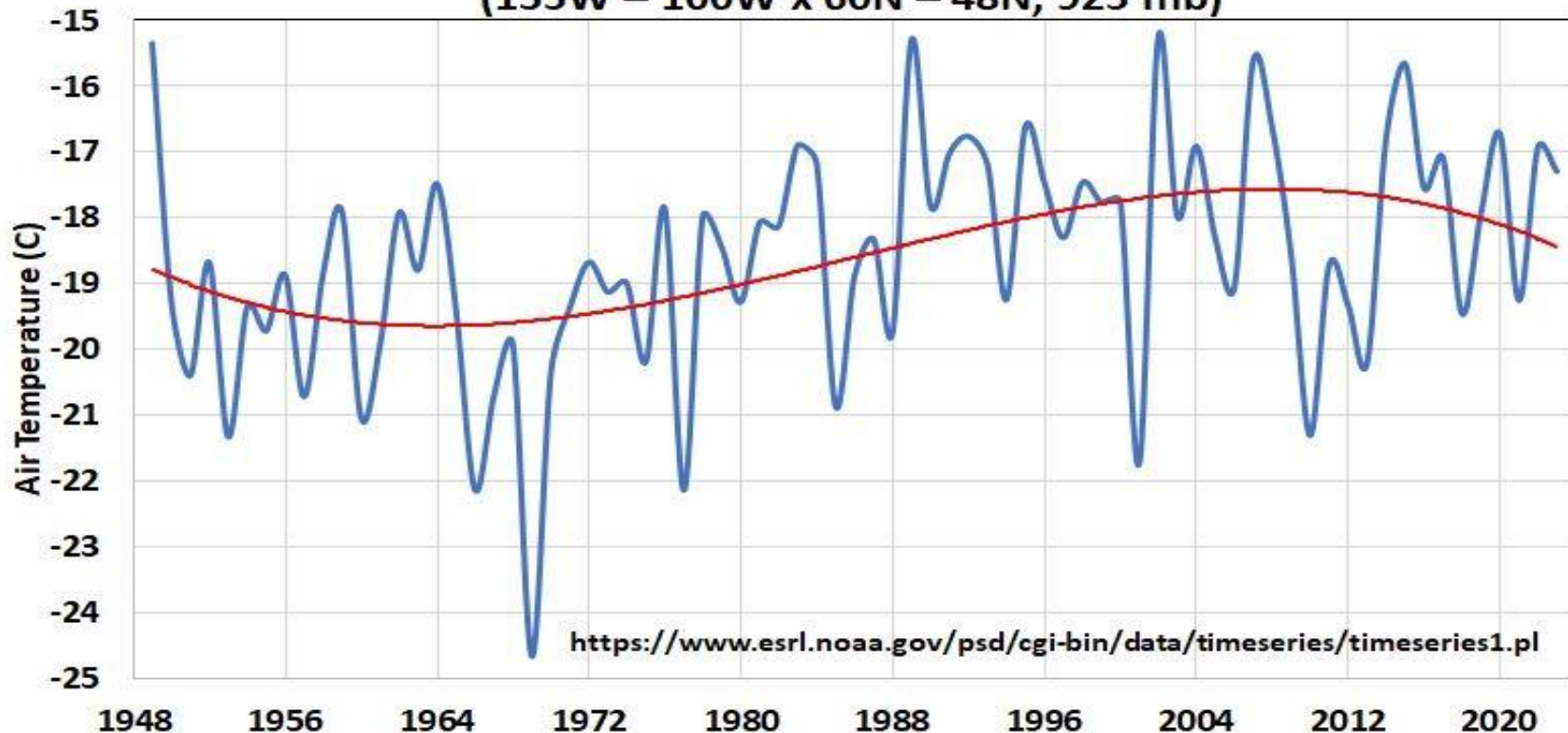
What is Canada's climate situation and the threat of a "Climate Emergency"?

Western Canadian Temperatures Show Cyclic Variations Unrelated to CO₂ Increases

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



Annual Averaged Lower Tropospheric Winter Season Air Temperatures for Western Canada NCEP Reanalysis (135W – 100W x 60N – 48N, 925 mb)



What is Canada's climate situation and the threat of a "Climate Emergency"?

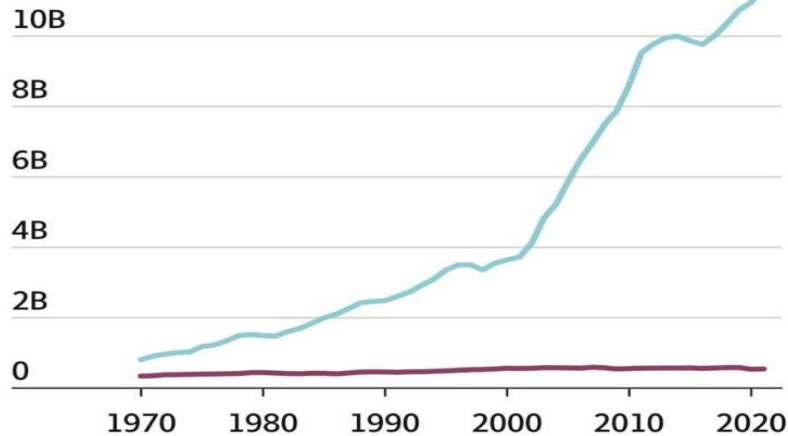
Canada's CO₂ emissions are very small. Other countries are significantly increasing CO₂ emissions

The International Energy Agency 2022 Coal Report documented that in 2021–22 global coal demand increased by 3.2% and for the first time passed 8 billion tons. Coal use in electricity generation is globally at an all-time high.

Carbon emissions: Canada vs. China

Annual CO₂ emissions from fossil fuels and industry, in billions of tonnes

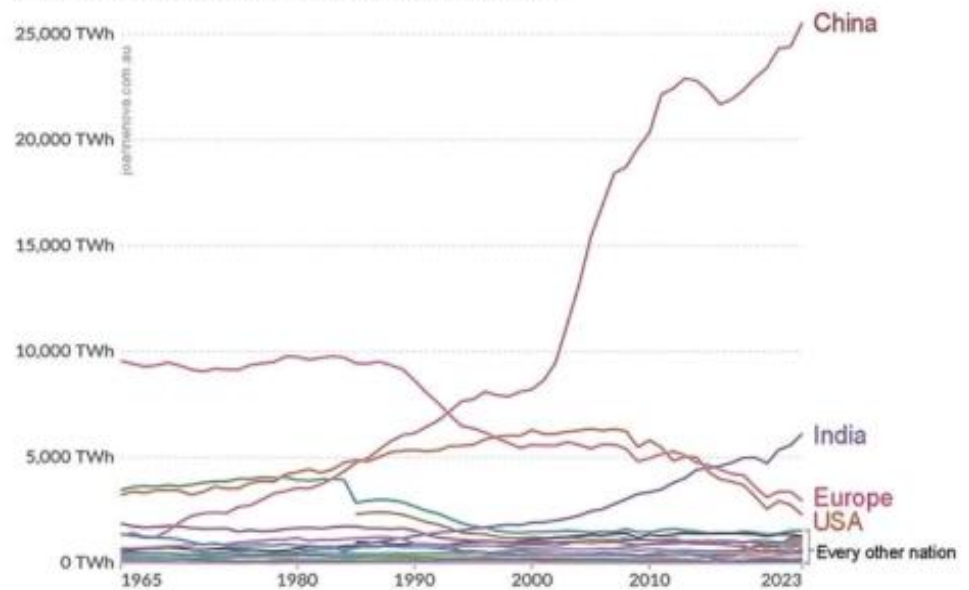
— Canada — China



JOHN SOPINSKI / THE GLOBE AND MAIL, SOURCE: OURWORLDINDATA.ORG

Coal consumption

Coal consumption by country or region, measured in terawatt-hours (TWh).



Data source: Energy Institute - Statistical Review of World Energy (2024)

OurWorldInData.org/fossil-fuels | CC BY

Other 3rd world countries are also increasing coal burning for electricity use to meet energy needs

- https://open.substack.com/pub/robertbryce/p/the-iron-law-of-electricity-strikes?r=ukert&utm_campaign=post&utm_medium=email
- <https://www.heritage.org/global-politics/commentary/china-abandons-paris-agreement-making-us-efforts-painful-and-pointless>
- <https://co2coalition.org/2024/10/14/western-households-sacrifice-as-asians-splurge-on-coal/>

What is Canada's climate situation and the threat of a "Climate Emergency"?

Canadian trees capture more than the total Canadian CO2 emissions

Canada has **594.7 billion trees**

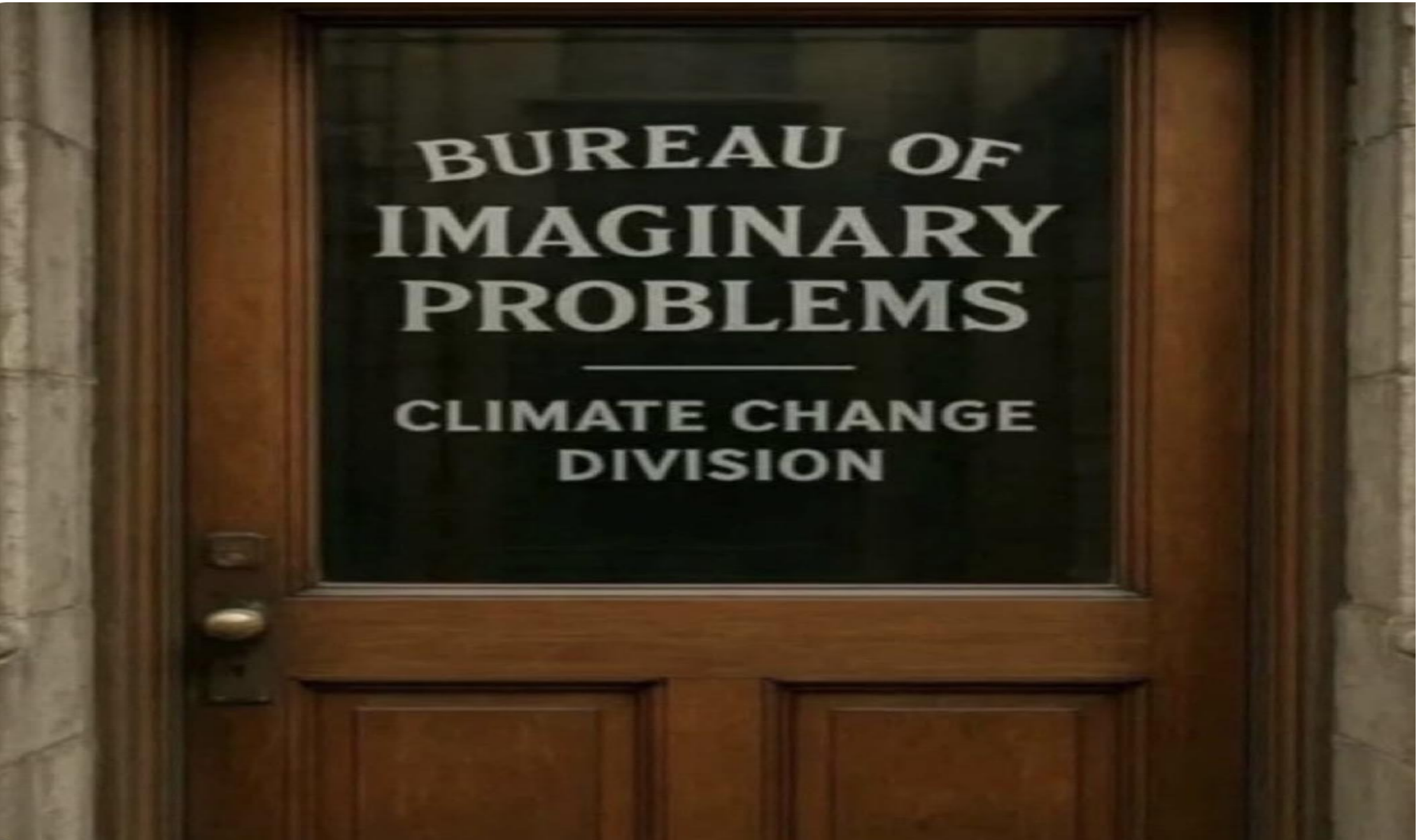
Canada produces **559 Megatonnes of Co2**

To capture all of Canada's Co2, it takes **25.7 billion trees**



Therefore, Canada has **569 billion unemployed trees...**
It's obvious the **Carbon Tax** is one of the largest scams
in Canadian history!

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

A photograph of a dark wood door with a large glass panel. The text on the glass panel is white and reads: "BUREAU OF IMAGINARY PROBLEMS" in large, bold, serif capital letters. Below this, a thin horizontal line separates the text from "CLIMATE CHANGE DIVISION" in smaller, bold, serif capital letters. The door is set in a stone wall.

BUREAU OF
IMAGINARY
PROBLEMS
—
CLIMATE CHANGE
DIVISION

[False Climate report: News about Media Doing 'damage Control' As Widely Reported Study ... Climate Scam Explanation](https://www.facebook.com/share/v/14PYv1fEJhD/?mibextid=wwXlfr) <https://www.facebook.com/share/v/14PYv1fEJhD/?mibextid=wwXlfr>

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

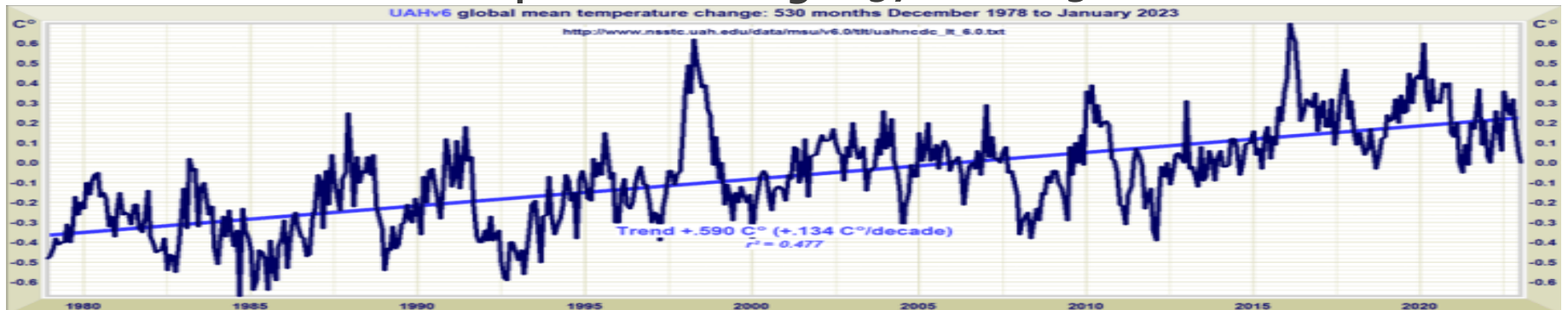
Global warming is slow, small, harmless and on the evidence to date, beneficial

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



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.

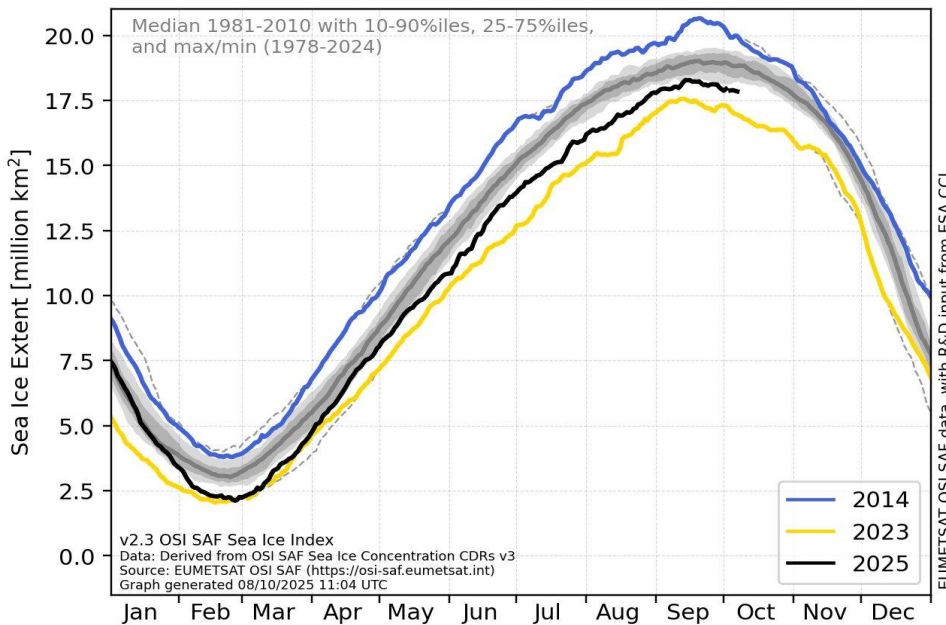
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Is sea level rise and rate of rise unusual and a major concern?

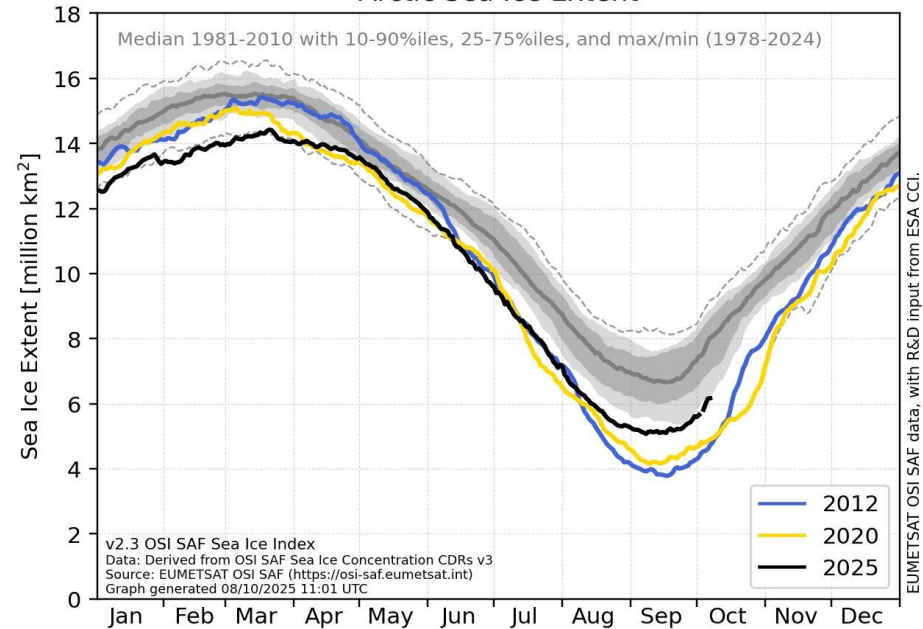
Polar Sea ice extent at both poles is now tracking close to their 1981–2010 averages

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

Antarctic Sea Ice Extent



Arctic Sea Ice Extent



Back in 2009, the newly appointed director of the NSIDC, Mark Serreze, 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.

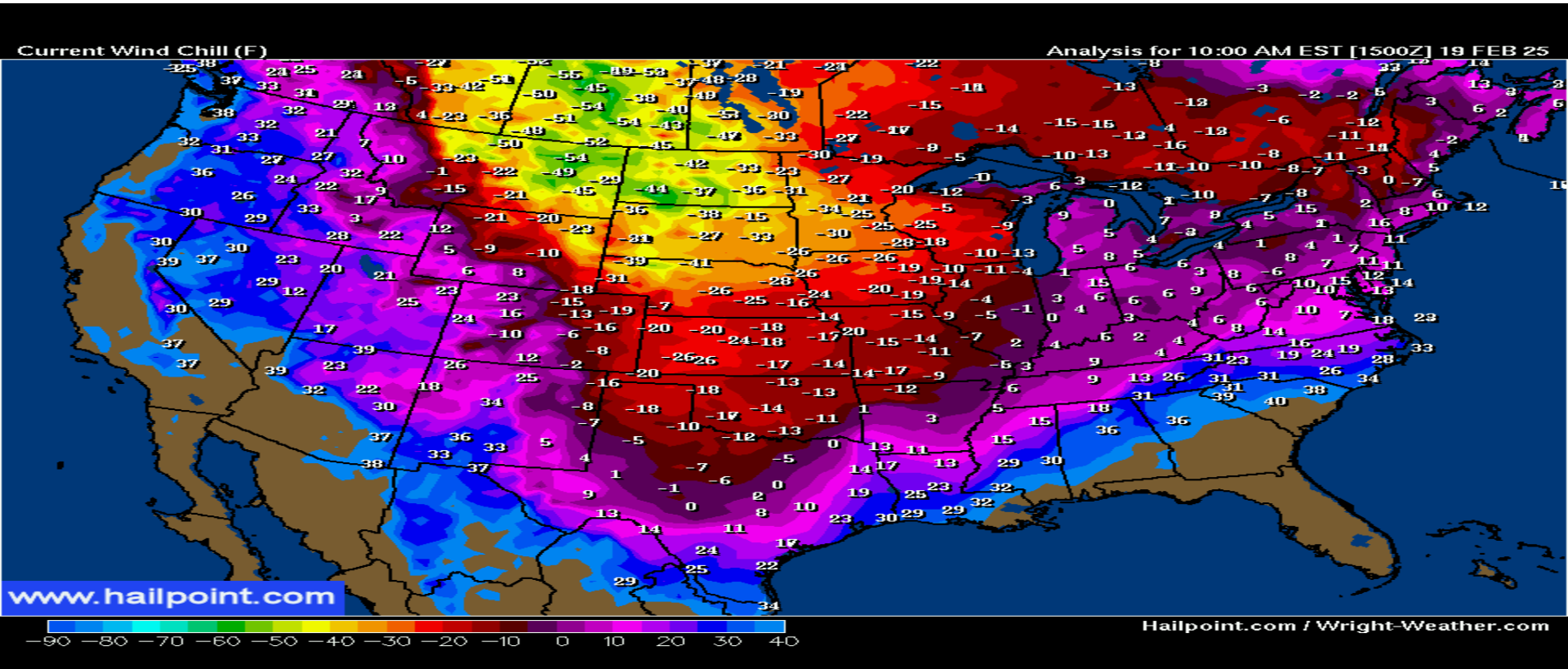
As climate researcher Javier Vinós put it, "clearly the models on which these predictions are based do not accurately reflect the actual climate." The Arctic death spiral never happened..

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

February 19, 2025: Record-breaking cold across North America

- Recent low temperatures go against CO2 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

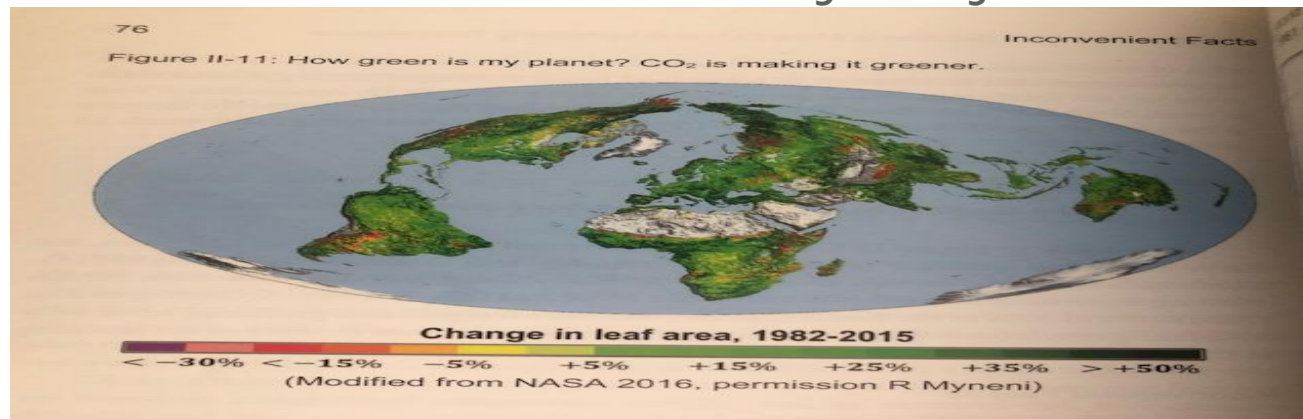
<https://www.zerohedge.com/weather/what-climate-crisis-weather-channel-reports-record-breaking-cold-august>

Are higher CO₂ levels good or bad?

Between 1982 to 2015 the world has been greening with increases in CO₂

- NASA satellite images show vast regions with increased growth due mainly to higher levels of CO₂, as increased CO₂ levels mean plants require less water to grow. Examples are the greening of the lower Sahara and the retreating deserts in China. More CO₂ 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 CO₂ 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 CO₂ is greening the earth and making vegetation flourish worldwide \(westernstandard.news\)](#)

[New study finds that CO₂ is increasing the rate by ... - CO₂ Coalition](#)

Are higher CO₂ levels good or bad?

Increases in CO₂ have very beneficial effects Peter Clarke on CO₂ and the greening planet

Positive Impacts of Added CO₂

- Global crop yields have risen 15 – 20 % since 1960, almost entirely attributed to CO₂ fertilisation (Idso, 2013, IPCC AR6 WG1 Ch5). Famine deaths have also plummeted over time as the world's population doubled. CO₂ deserves much of the credit. Increased CO₂ 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 CO₂ fertilisation). Warmer, more balmy temperatures are also lengthening the growing seasons. Every 100 ppm increase in CO₂ 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 CO₂ level delivers an increase in global biomass.
- This is an astonishing windfall for life on earth, chiefly from CO₂, 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.
- These are the reasons why commercial greenhouses pump CO₂ 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?

Are higher CO₂ levels good or bad?

Increases in CO₂ have very beneficial effects Peter Clarke on CO₂ and the greening planet

Positive Impacts of Added CO₂

- 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.
- CO₂ is the foundation for life on Earth and the chief source of photosynthesis. It also delivers the calcium carbonate in water to produce exoskeletons for all shellfish. This is the miracle of CO₂, enabling green chlorophyll plants and algae to convert sunlight into food energy and oxygen. In this way, CO₂ supports every food chain on earth.
- Science shows that 500-1000 ppm of CO₂ 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, not waging a war on a trace gas that makes the planet greener. Higher CO₂ gives a net benefit to life on Earth. This means the current carbon-neutral policy of driving down CO₂ levels - the purpose for net-zero - is anti-life.

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>

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

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

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

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

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

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

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

- 1) Volcanic eruption, a natural event, warms the Earth's surface

Hunga Tunga Ha'apai Volcano Impacts Global Atmosphere

The eruption of the Hunga Tonga-Hunga Ha'apai volcano 490 feet under the waves on January 15, 2022, blasted an enormous amount of water and volcanic gases into the sky higher than any other eruption in the satellite era. This underwater explosion sent 146 million tons of water from the South Pacific Ocean into the stratosphere.^[60] changing the water composition of Earth's atmosphere and potentially heating it up *for years*. In just a few days, the superheated water from the Hunga Tonga eruption blanketed the entire globe, pole to pole, East to West. It caused the most intense atmospheric explosion ever recorded by modern instruments.

The amount of water vapor ejected was 10 percent of the stratosphere's typical stock.^[61] It was enough to temporarily warm the surface of Earth. It is estimated that an excess of water vapour should remain for 5–10 years.^[59] Hunga's eruption broke all records for injection of *water vapor*—the most powerful greenhouse gas—into the atmosphere. [NASA](#)

[Bing Videos](#) Hunga Tunga satellite view

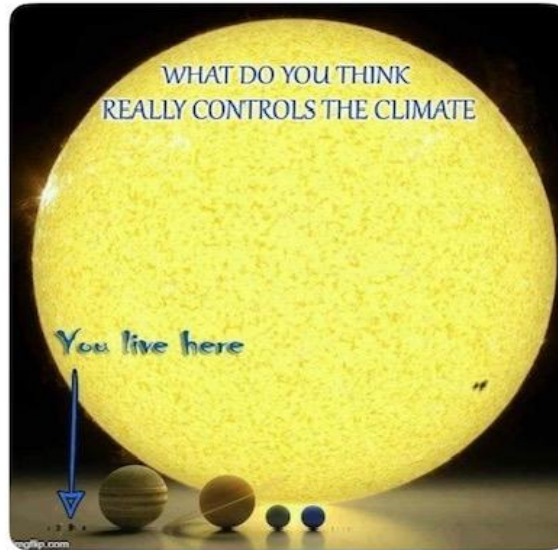
[A volcanic eruption sent enough water vapor into the stratosphere to cause a rapid change in chemistry - NOAA Research](#)



Is Global Warming caused by increased CO₂?

Factors that impact Climate Change

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

 **Martyupnorth®- Unacceptabl...** · 1d ·  ·  · 
Here's a visual of my post.



 **Martyupnorth®- Unacceptabl...** · 1d · 
Climate change is caused by the sun, and
It's natural.

 100  310  1.2K  30K  

<https://www.youtube.com/embed/1Mj16tiUyl4>

Water impact on global temperatures https://youtu.be/4swl8_4LfWc;

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

Is Global Warming caused by increased CO₂?

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 CO₂ 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 CO₂ 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 CO₂ 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 pages 28, 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/BiKfWdXXfls>

[Henrik Svensmark & Nir Shaviv - How the sun regulates our climate – YouTube](#)

[Natural Climate Variability. Does CO₂ 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 CO₂

[Feed | CO₂ Coalition Discussion Group](#) Climate Change and Extreme Weather Events Jim Steele

Is Global Warming caused by increased CO₂?

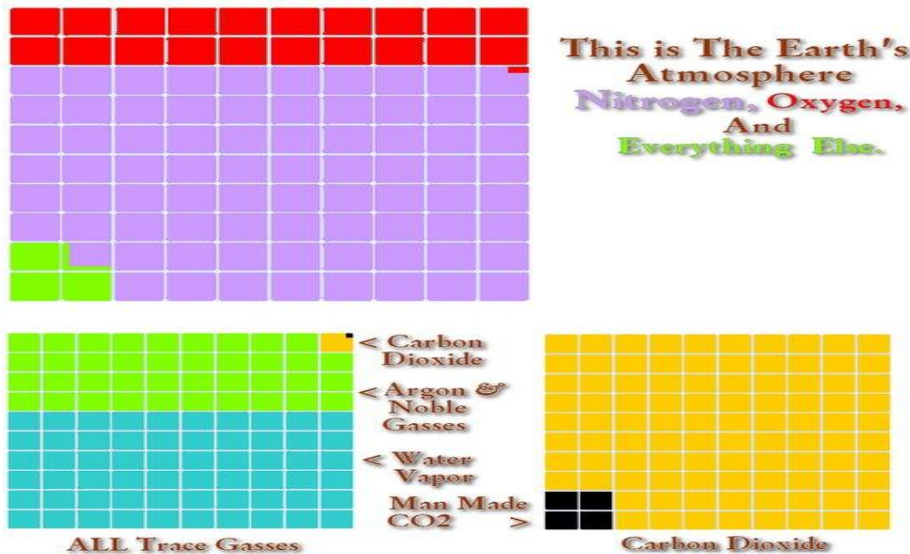
Ocean currents, clouds and the urban heat island effects also impact Climate Change

- 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, CO₂ is not a factor in heating or cooling the ocean, as CO₂ 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 CO₂ 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

Is Global Warming Caused by Increased 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



How much CO₂ is TOO Much?

Atmospheric Composition

	% ppmv	
N ₂ + O ₂	99%	78% N ₂ 21% O ₂ . Largely invisible to infrared rays
H ₂ O	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 = 0.04x0.053x0.5 ³²¹
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

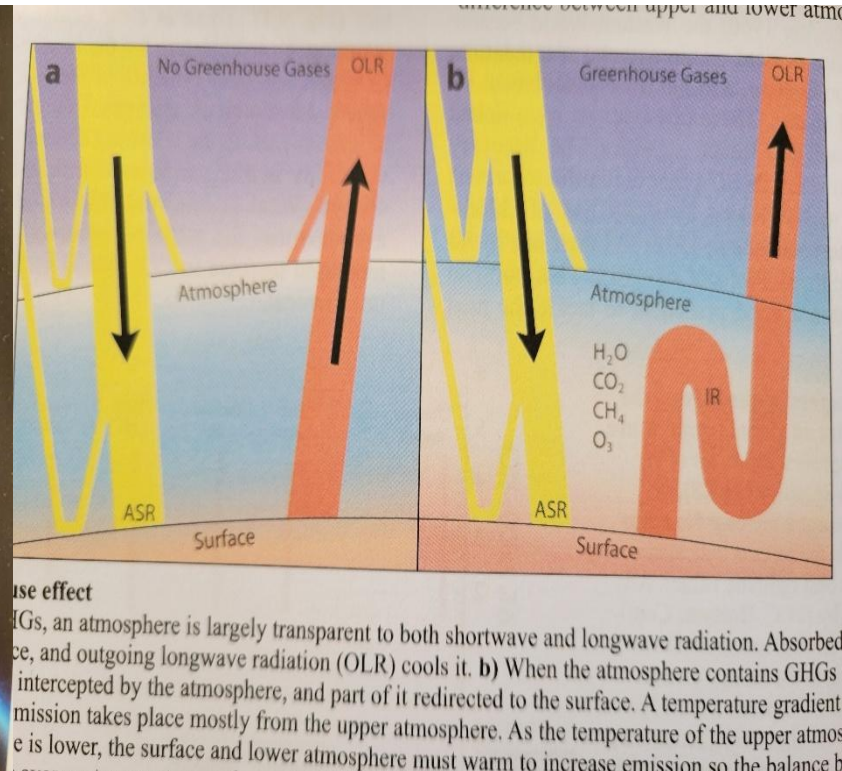
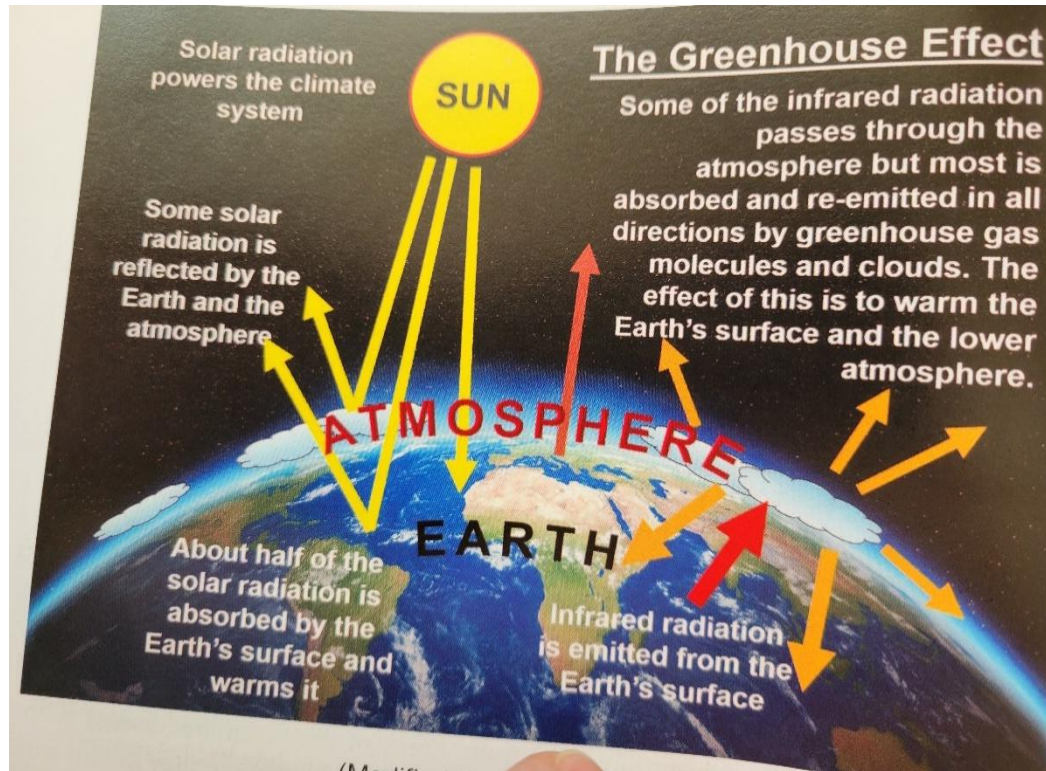
Is Global Warming caused by increased CO₂?

The Sun's radiation energy, the Greenhouse Gas effect and the warming from CO₂*

- 30% of the Sun's radiation is reflected by clouds and 70% passes through the Earth's atmosphere and strikes the surface.
- Greenhouse gas molecules, including CO₂, absorb some of this re-emitted energy and **emit** energy in the form of **heat**.
- With added CO₂, the absorption sensitivity of CO₂ reduces logarithmic (twice as much CO₂ is needed for same impact)
- This effect is similar to a sponge that initially absorbs a lot of water; this reduces as the sponge becomes saturated*

The Greenhouse Effect

The Sun's Energy Radiation Path



Reference Books:

Is Global Warming caused by increased CO₂?

The heating capacity of CO₂ reduces logarithmically. Clouds are more important.

- Max Planck delineated the spectrum of radiation from warm bodies, showing that **the impact of doubling CO₂ from 400ppm to 800ppm is only 0.71C of warming**. Doubling again to 1600ppm adds 0.35C
- Dr. W. A. van Wijngaarden and William Happer demonstrate the **dominant role of clouds on Earth's climate**. 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**.
- Doubling CO₂ concentrations only decreases radiation to space by about 1%. However, clouds cover more than half the planet and an increase in **low cloud cover of only 1% could largely compensate for the same doubling of CO₂**.

Planck Curve - Effect of CO₂ on the Earth's Heat Spectrum

Temperature Impact Decreases with Increased CO₂

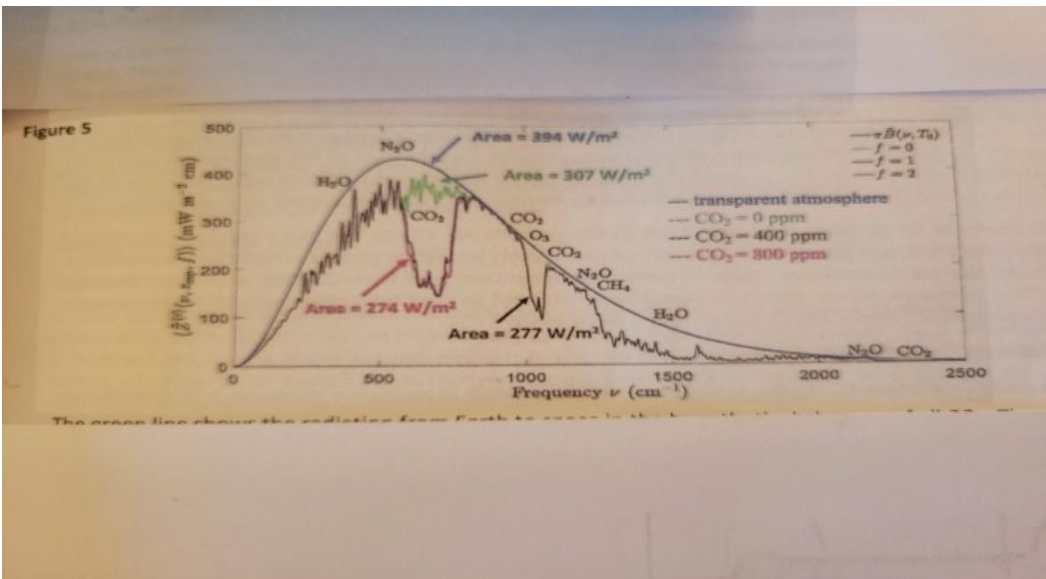
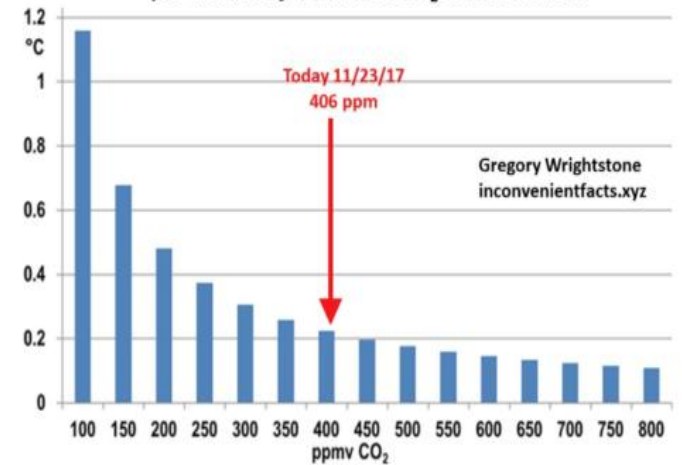


Figure I-3: Less global warming for each additional 50 parts-per-million-by-volume of CO₂ concentration



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

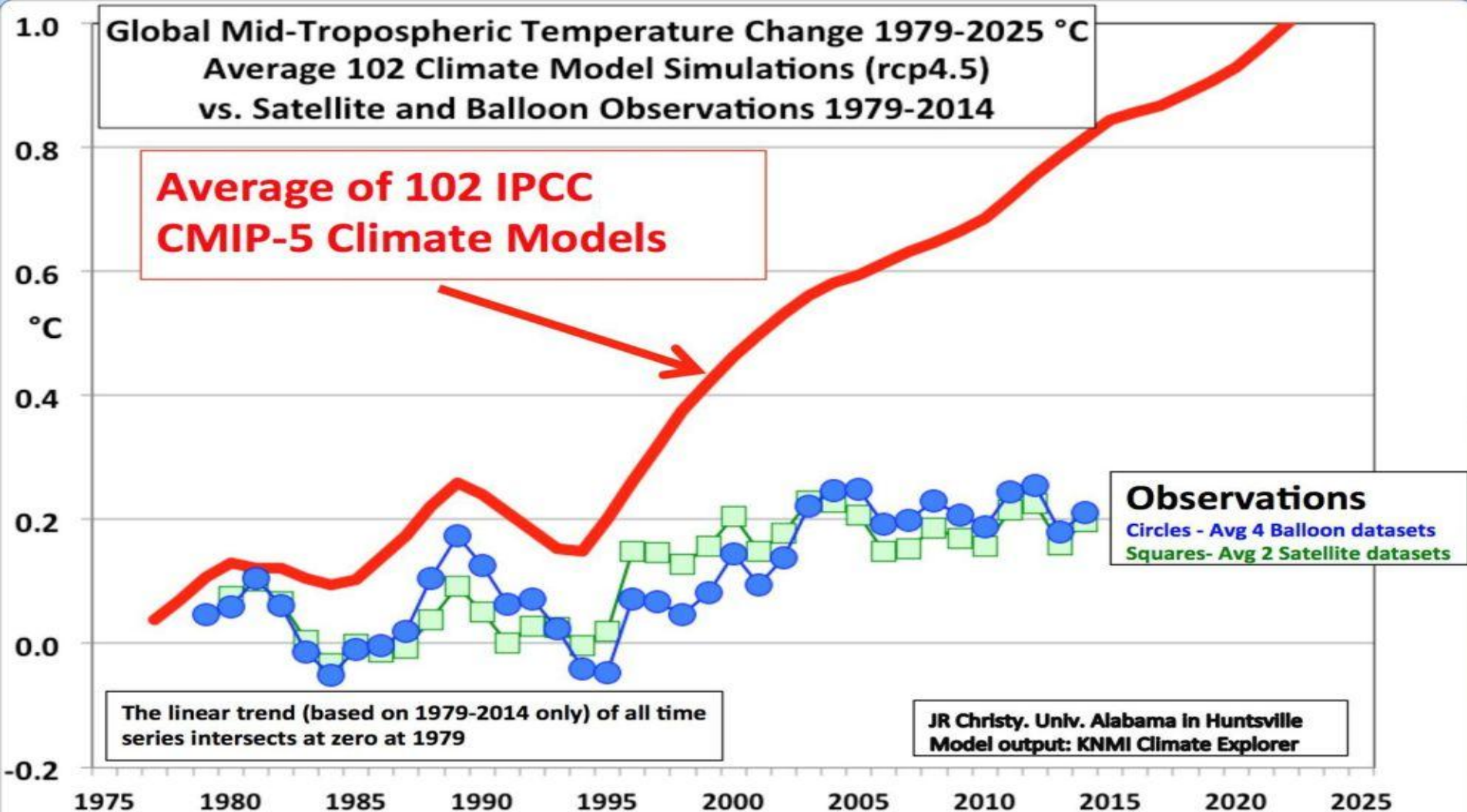
<https://wattsupwiththat.com/2023/09/29/professor-william-happer-ipa-lecture-the-crusade-against-carbon-dioxide-september-2023/>

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

<https://co2coalition.org/publications/radiation-transport-in-clouds/> * dry sponge/wet sponge saturation effect

Is Global Warming caused by increased CO₂?

CO₂-driven climate models over estimate actual trend of climate change



Reference: [John Christy: The Climate Real Deal | Science Matters \(rclutz.com\)](http://www.scencematters.com/2013/06/12/the-climate-real-deal/)

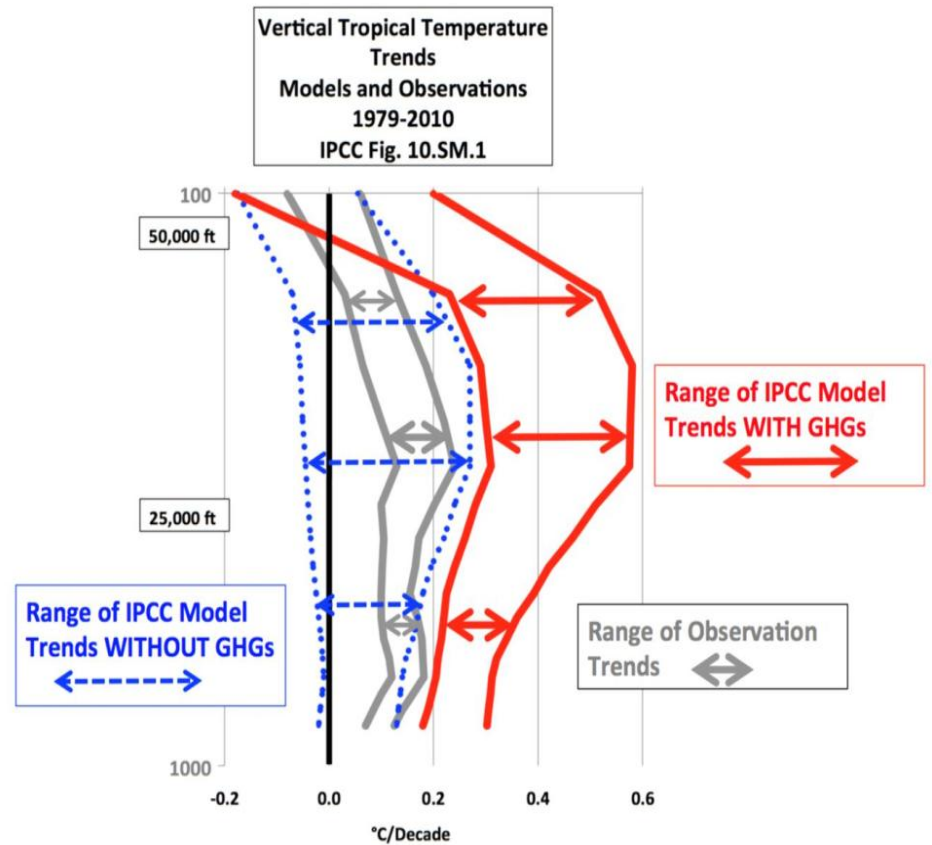
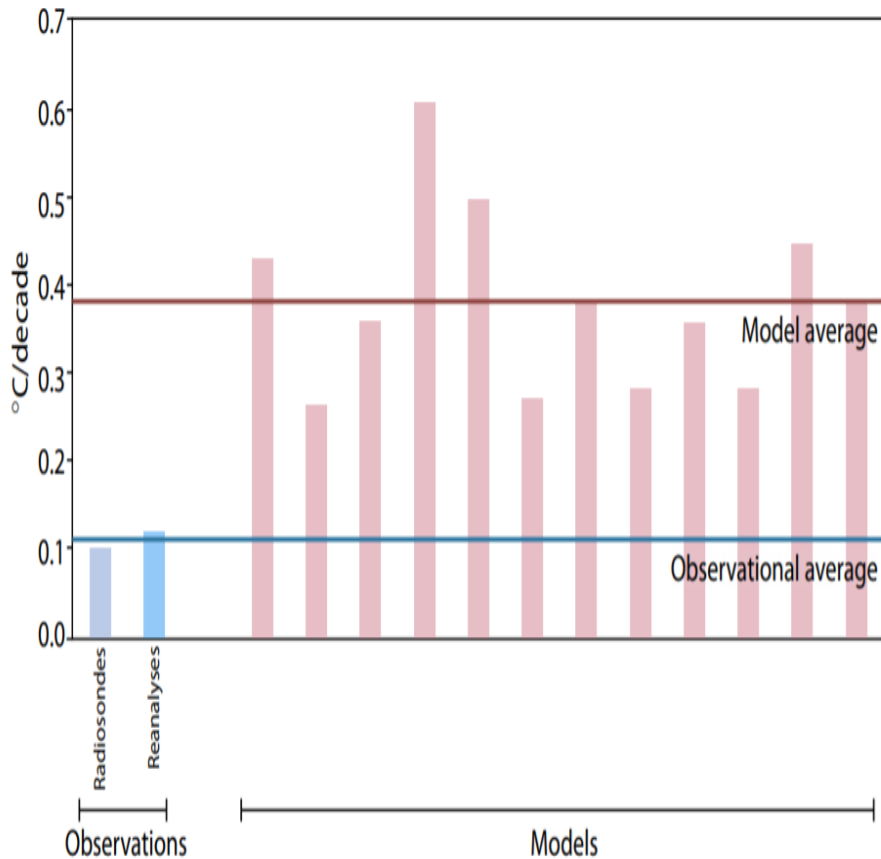
Computer Modelling [Willie Soon](#)

<https://www.youtube.com/watch?v=b5oyv8l6l-g>

Is Global Warming caused by increased CO₂?

CO₂-driven climate models over estimate actual trend of climate change

Computer climate models vs actual results

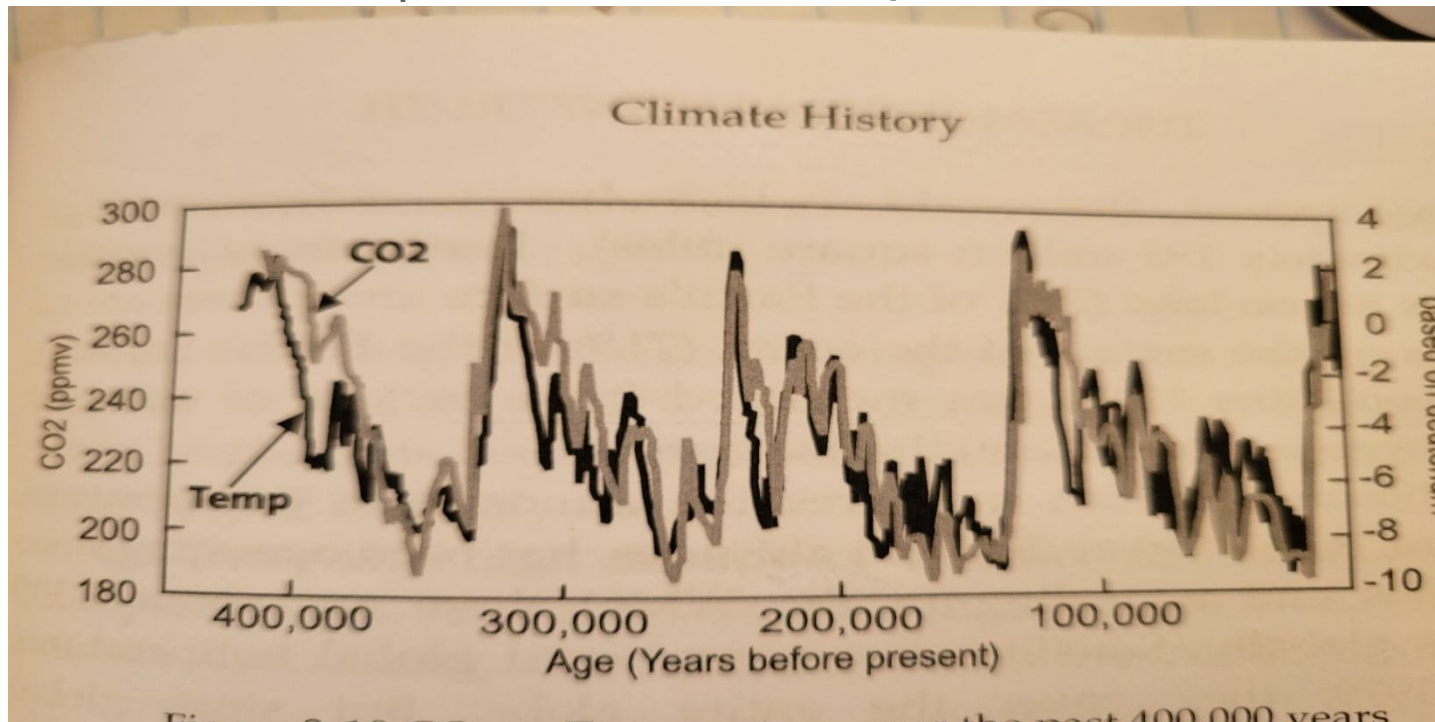


Is Global Warming caused by increased CO₂?

Graphs showing both temperature and CO₂ 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, CO₂ 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 CO₂ into the atmosphere.* Henry's Law: warming water holds less gas

CO₂ 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

Is Global Warming caused by increased CO₂?

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 CO₂
- Warm oceans release CO₂ more easily

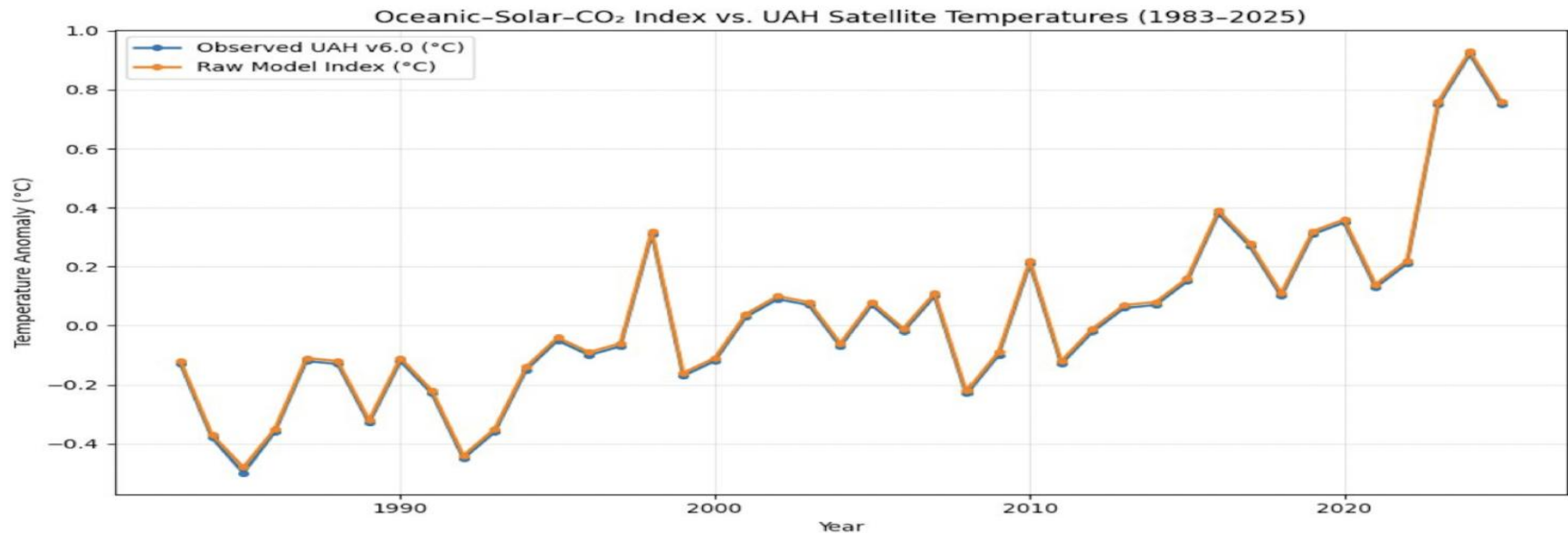
Why this happens: Gas molecules are only weakly bound in a liquid. When the liquid warms up, molecules move faster and it's easier for dissolved gas molecules to escape back into the atmosphere

Is Global Warming caused by increased CO₂?

Finally, a successful climate change model that matches historic results

Paul Burgess's Oceanic – Solar – CO₂ 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 CO₂ impact. Only 25% was due to mankind's added CO₂. 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 CO₂ and a small element of CO₂.

[At last the answer: how much warming is natural and how much warming is from mankind?](#) Paul Burgess

Is Global Warming caused by increased CO₂?

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 CO₂ 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, **CO₂-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 CO₂ 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 CO₂.

[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 CO₂ and a small element of CO₂.

Is Global Warming caused by increased CO₂?

Paul Burgess's climate change model demonstrates the oceans' strong impact

4 Satellite Measurements Show Limited Impact from CO₂-Reflected Heat

Using satellite measurements, the Oceanic-Solar explanation of Earth's energy balance, rather than surface ocean temperatures, demonstrates why the CO₂ 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 CO₂ 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 CO₂ and a small element of CO₂.

What about scientists' consensus regarding man-made Global Warming crisis?

The stated scientific crisis consensus is misleading; many reputable scientists disagree

There is consensus that temperatures have been and are increasing and that mankind has increased CO₂ levels. However, there is no consensus regarding the degree to which mankind's CO₂ emissions are impacting temperatures or that this is causing a climate crisis.

A large and increasing number of world-renowned scientists speak out against this, including:

Dr. John Christy, Professor of Atmospheric Science, Director of Earth System Science Center, U. of Alabama

Dr. John F. Clauser has degrees from Caltech and Columbia University, a Nobel Prize winner in science

Dr. Judith Curry, climatologist, former chair of Earth and Atmospheric Sciences, Georgia Institute of Technology

Dr. Ivar Giaever, professor emeritus at the Rensselaer Polytechnic Institute, Nobel Prize in Physics

Dr. William Happer, Physics professor Emeritus, Princeton Univ., atomic physics, optics, spectroscopy

Dr. Steven Koonin, theoretical physicist and former director Center for Urban Science at New York Univ.

Dr. Richard Lindzen, MIT atmospheric physicist, on the dynamics of the atmosphere and ozone photochemistry

Dr. Patrick Moore, ecologist, UBC, co-founder of Greenpeace

Dr S. Fred Singer, Atmospheric physicist, professor emeritus of environmental science, U. of Virginia

2000+ Scientists sign **World Climate Declaration: THERE IS NO CLIMATE EMERGENCY** stating: i) natural as well as anthropogenic factors cause warming; ii) warming is far slower than predicted; iii) climate policy relies on inadequate models; iv) CO₂ is plant food, the basis of all life on Earth; v) Global warming has not increased natural disasters; vi)

Climate policy must respect scientific and economic realities <https://clintel.org/wp-content/uploads/2023/11/WCD-version-111523.pdf>

Many governments are also moving away from or delaying the implementation

What about scientists' consensus regarding man-made Global Warming crisis?

The stated scientific crisis consensus is misleading; the CO2 Coalition of scientists disagrees

A key player here is the [CO2 Coalition](#), which includes scientists and researchers from across the globe devoted to educating the public and policymakers about the *benefits* of CO2. 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 CO2 that do not fit in with the narrative of centralized planners in Washington.

The regulatory attack on CO2 is essentially an attack on humanity itself. Dr. William Happer, a retired Princeton University physicist and founder of the CO2 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 CO2 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/>

- <https://principia-scientific.com/46-climate-change-denying-statements-made-by-former-ipcc-scientists/>

Are warmer temperatures and higher CO2 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, sensationalized reporting, overdramatizing reality.



Reference graph from Germany Met.

Global Cooling



Global Warming



[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 \(twitter.com\)](#)

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

Net Zero by 2050 is pointless and not achievable

- Net Zero 2050 is pointless. 90% of the CO₂ warming is in the past because the atmosphere is already in a [CO₂-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 CO₂ warming have all been wrong, their hypothesis is wrong. Period.
- A Net Zero 2050 is unachievable. A stable, affordable, non-CO₂-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 CO₂ 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?](#)

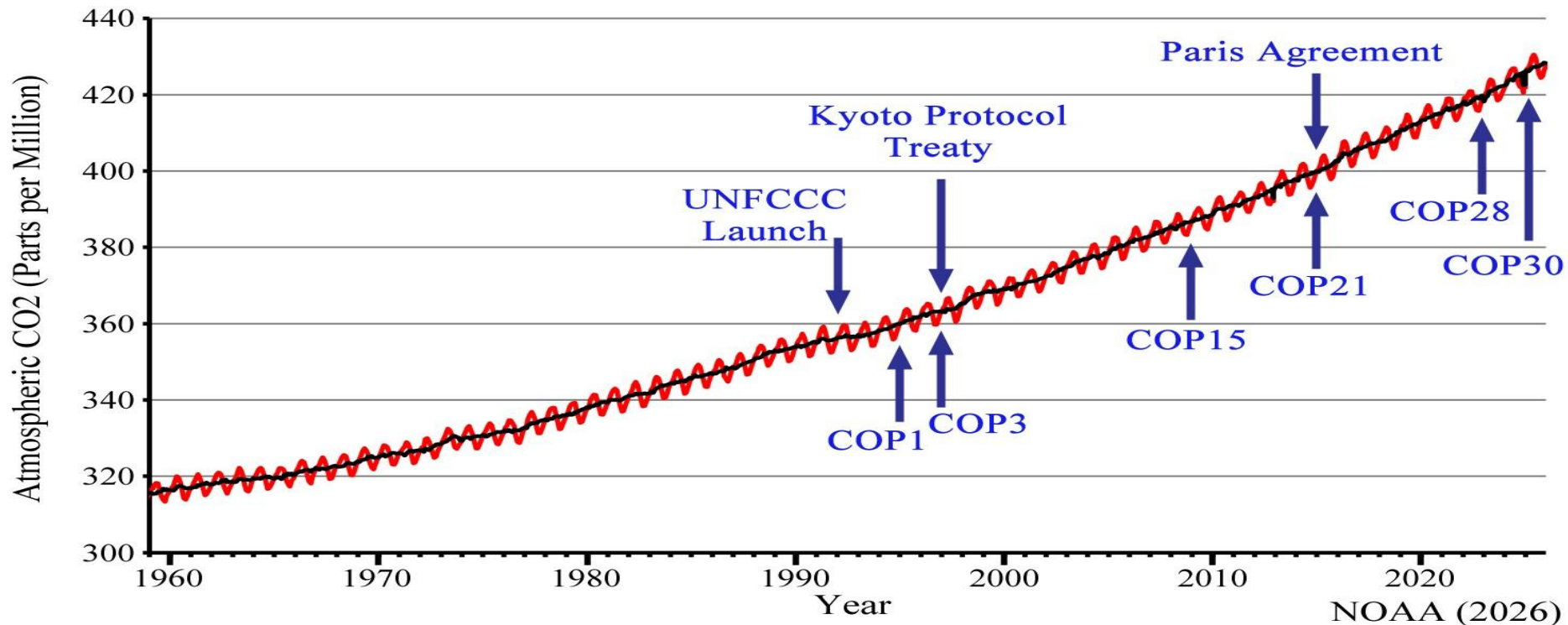
Are warmer temperatures and higher CO2 levels causing a climate crisis?

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."

United Nations Conferences and Atmospheric CO2 Rise



Are warmer temperatures and higher CO₂ 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>

Are warmer temperatures and higher CO₂ 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](#)

If CO₂ is good and climate always changes, what about energy options?

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

What are the negative implications of pursuing a carbon-neutral policy?

Reducing fossil fuel usage would negatively impact third-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.

What are the negative implications of pursuing a carbon-neutral policy?

Reducing fossil fuel usage would negatively impact third-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.

What are the negative implications of pursuing a carbon-neutral policy?

Reducing fossil fuel usage would negatively impact third-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. [Vijay Jayaraj](#) is a Science and Research Associate at the [CO₂ Coalition](#), Arlington, Virginia. He holds an M.S. in environmental sciences from the University of East Anglia and a postgraduate degree in energy management from Robert Gordon University, both in the U.K., and a bachelor's in engineering from Anna University, India.

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.

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

Australia

The Liberal Party has [abandoned](#) the promise of net-zero in 2050, and will instead prioritize lower energy prices.

General CO₂ 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 CO₂ reductions by countries <https://financialpost.com/opinion/uk-net-zero-revolt-wake-up-call>

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/wjB2oNb9veRV/5MSanGiq2F>

[The Science and Environmental Policy Project \(SEPP\)](#)

[The Tide is Turning Decisively Against Net Zero](#) <https://youtu.be/xaPrKzlkWrQ>

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](#)

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=wwXlfr>

More from Trump's UN speech Sept 23, 2025 <https://www.facebook.com/share/r/1CjCaLJuja/?mibextid=wwXlfr>

[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 CO2 reductions by countries <https://financialpost.com/opinion/uk-net-zero-revolt-wake-up-call>

China and India

[Trump's Withdrawal From Collapsing Climate Narrative](#)

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 3 Japanese 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 - CO2 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

Norway

[Norway Avoids 'Green' Energy Quicksand - Vijay Jayaraj](#)

South Korea

[South Korea's Developing Net Zero Debacle - CO2 Coalition](#) The consequences will be lost jobs and shuttered factories

Corporations.

Corporations that sold the world on their green credentials are also retreating,

[General CO2 reductions by countries https://financialpost.com/opinion/uk-net-zero-revolt-wake-up-call](https://financialpost.com/opinion/uk-net-zero-revolt-wake-up-call)

What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: Recent legal USA action

A US court case could upend climate change policy

- At the centre of the case is the CO₂ 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 CO₂ levels contribute to increased plant productivity and that carbon emissions produce global greening far more than global warming. That position is now at the centre 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 CO₂ levels have produced measurable environmental benefits.

<https://frontiercentre.org/2026/03/28/a-u-s-court-case-could-upend-climage-change-policy/>

What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: Recent USA action

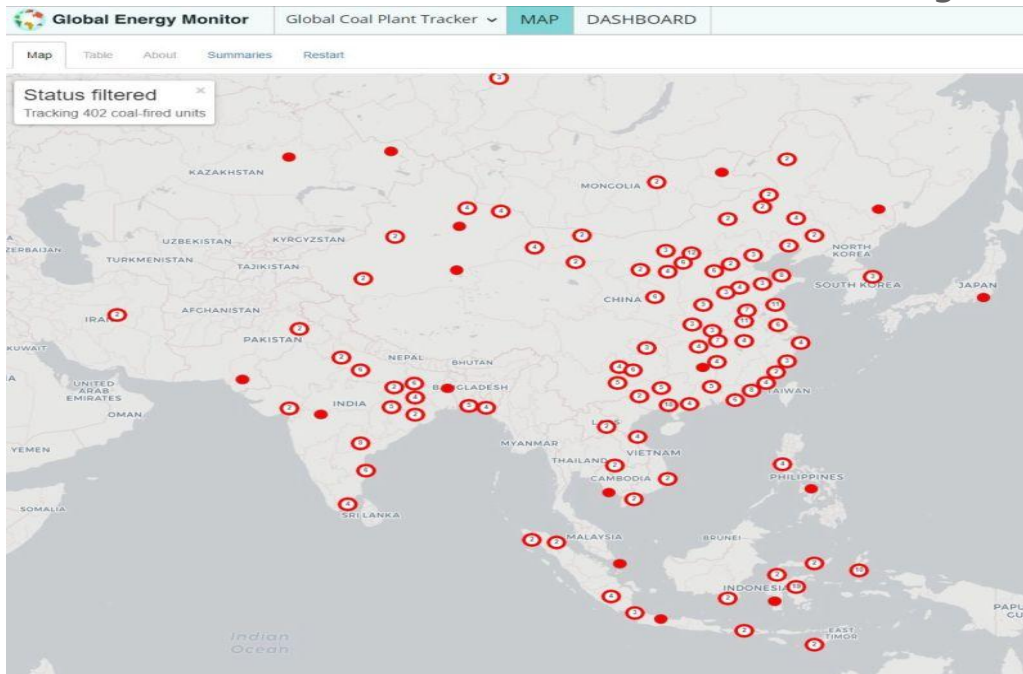
Repeal of Endangerment Finding Statement of Gregory Wrightstone

- 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 CO₂. 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.

What are the negative implications of pursuing a Carbon Neutral policy?

3rd world countries' increases in CO₂ emissions make Canada's reductions irrelevant

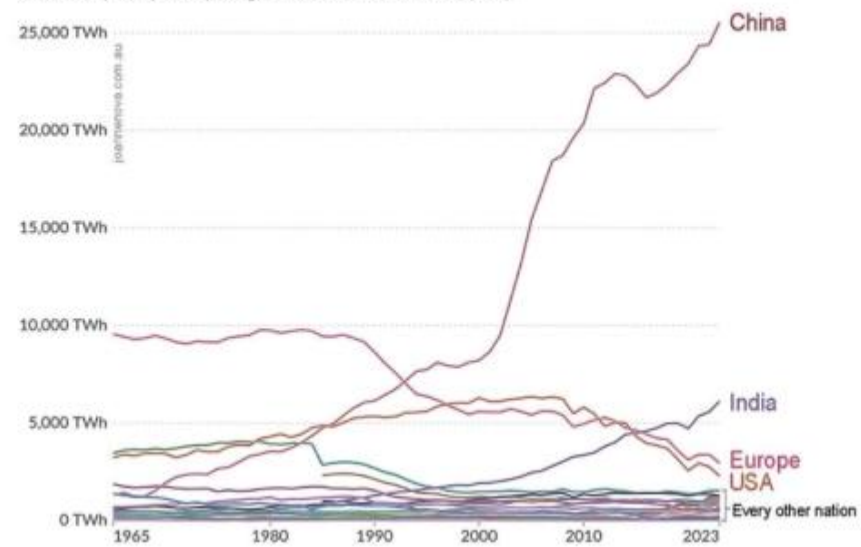
SE Asia Coal Power Plants Under Construction 2023



World Coal Consumption by Country

Coal consumption

Coal consumption by country or region, measured in terawatt-hours (TWh).



Other 3rd world countries are also increasing coal burning for electricity use to meet energy needs

The International Energy Agency 2022 Coal Report documented that in 2021–22 global coal demand increased 3.2% and for the first time passed 8 billion tons. Coal use in electricity generation is globally at an all-time high.

https://open.substack.com/pub/robertbryce/p/the-iron-law-of-electricity-strikes?r=ukert&utm_campaign=post&utm_medium=email

<https://www.heritage.org/global-politics/commentary/china-abandons-paris-agreement-making-us-efforts-painful-and-pointless>

<https://co2coalition.org/2024/10/14/western-households-sacrifice-as-asians-splurge-on-coal/>

[Trump's Withdrawal From Collapsing Climate Narrative](#)

What is Canada's situation and the actual impact of going carbon neutral?

Canada going "Carbon Neutral" does not make sense nor add value for money

- Canada's CO₂ emissions are just over 1% of world emissions. Even if CO₂ levels materially impact global temperatures (which is likely not the case), going "Carbon Neutral" for Canada would have only a very minimal world impact, making no difference.
- **The Government of Canada has launched the \$8 billion Net-Zero Accelerator Fund to help large emitters reduce their emissions. Plus, the Government is taxing Canadian citizens via a carbon tax. In 2023-24, the government expects the tax to raise \$5.7 billion. Is this value for money?**
- Based on recent historical trends, in the next 100 years in Canada
 - The impact of temperature changes is likely about 1 ° C (not a concern)
 - Given no material high tide rises over the last 100-plus years, the impact of sea level rise is also likely not a concern and any potential rise can be managed.
- Is spending valuable taxpayer funds on the planned "Climate Emergency" good value for money?
- Are there better ways to help Canada than by cutting CO₂ emissions and imposing a Carbon tax? Do we want to feel good following a moral imperative that may be wrong, or do we want to effectively spend these funds in areas where funds are desperately needed and make an impact?
- The value of going "Carbon Neutral" should be in serious question. In my aforementioned separate presentation (available on request), warmer temperatures and increased CO₂ are shown to be good, not bad.
- **\$5.7 billion of funds and efforts in the Carbon Neutral initiatives should be directed elsewhere to well-defined and beneficial needs of Canadian residents. The principle of value for money spent should be upheld. The Carbon tax should be dropped.**

What is Canada's situation and the actual impact of going carbon neutral?

Canada going "Carbon Neutral" does not make sense, nor add value for money

- Dr. Richard Lindzen states "Surely, funds allocated to moving Canada to Carbon Neutral can be better spent elsewhere (adding more doctors and nurses, additional education funding"
- "CO₂ is a particularly ridiculous choice for a 'pollutant'; its primary role is as a fertilizer for plant life. Currently, almost all plants are starved of CO₂. Moreover, if we were to remove a bit more than 60% of current CO₂, the consequences would be dire: namely, death by starvation for all animal life."
- "... given the size of the energy sector, any attempt to rebuild it, however unnecessarily and ineffectively, presents immense opportunities for huge short-term profits – opportunities that are obviously tempting and strongly defended. Atop all of this has been the constant Geobellion repetition by the media of climate alarm. And this alarm is accompanied by so-called 'solutions' that deal with something, namely decarbonization, that is, in fact, largely irrelevant to climate change, while imposing great and pointless pain."
- "Indeed, rapid CO₂ emission reductions in the UK will have a negligible impact on global warming"
- "... proposed policies are harmful regardless of what one believes about the nature of climate change. My point is that this is doubly true if the underlying premise concerning the role of greenhouse gases is wrong."

Reference: 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/>

There are significant challenges for Canada to achieve net zero in a reasonable time.
https://youtu.be/nLm1_a_JF6Q?si=lvLFVFIhnql4IYSI

Global Warming and CO₂

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.

Global Warming and CO₂: The Science

Evaluation Results of Eleven Relevant Questions with research pages referenced

1) Is present Global Warming a crisis or a natural phenomenon?

Answer: Global Warming is 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 CO₂ levels causing a climate crisis?

Answer: No, warmer temperatures and CO₂ levels are not causing a climate crisis

Forest fires, hurricanes, tornadoes, heat waves, droughts and other weather-related concerns have not increased with recent higher CO₂ and temperature levels.

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

Answer: Higher CO₂ and warmer temperatures are good for humans and plants

Plants and crops benefit and grow better with higher CO₂. Mankind has also done better under higher temperatures.

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

Answer: CO₂ levels are at historically low levels when viewed over geologic time

CO₂ 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 CO₂ emissions, today's CO₂ level rose to about 415 ppm, which is only 0.0417% of the total atmospheric gas. 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.

Global Warming and CO₂: The Science

Evaluation Results of Eleven Relevant Questions with research pages referenced

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

Answer: Natural events have caused changes in CO₂ over geologic time

Cold oceans and plant life absorb CO₂ and concentrated carbon and CO₂ in limestone, coal, oil and gas deposits. Over geologic time, plate tectonics and volcanoes have added CO₂ at much higher amounts than recent mankind-induced CO₂ emissions and with no negative impact.

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

Answer: Mankind has increased CO₂ levels, but this is not causing major climate change

Temperatures and climate changed dramatically and well before mankind's recently added CO₂ emissions. Rates of recent temperature increases, glacial retreats and sea level rise have not changed with recent increases in CO₂. During glaciation periods, CO₂ levels changed after temperature changed and therefore could not be causing these specific temperature increases. Oceans cool then absorb CO₂; oceans warm, then release CO₂. NASA states that climate change occurs because of changes in the Earth's solar orbit.

7) What is the impact of CO₂ on climate warming?

Answer: Additional CO₂ will have a very minimal future impact on temperature

Mankind added CO₂ 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), Sun spot activity, ocean currents, clouds, plate tectonics and volcanoes. As CO₂ concentration increases, CO₂ has less and less warming effect; adding more CO₂ has a logarithmically reduced impact.

Global Warming and CO₂: The Science

Evaluation Results of Eleven Relevant Questions with research pages referenced

8) **Is sea level rise and rate of rise unusual and a major concern?**

Answer: Sea level rise has not changed with higher CO₂, isn't unusual and is manageable

Sea levels have changed significantly over the Earth's entire history. Since the last glacial period, the earlier rapid rate 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 retreats, accommodating coastal change and protection with sea walls, dune rehabilitation and beach nourishment. There is no evidence that reducing our CO₂ emissions will reduce sea level rise or materially impact temperature.

9) **What about scientists' consensus regarding man-made Global Warming crisis?**

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 CO₂ levels. However, there is no consensus regarding the degree to which mankind's CO₂ emissions are impacting temperatures or that this is causing a climate crisis.

10) **If CO₂ is good and the climate always changes, what about other fossil fuel pollutants and alternative energy adoption?**

Answer: Focus on removing the actual pollutants at refinery levels, engine combustion process levels and at coal burning sites for electricity plants – pursue economic, realistic energy transition replacement options, like small nuclear reactors, over time

11) **What are the negative implications of pursuing a carbon-neutral policy?**

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.

The data supporting these findings can be seen, by questions

<https://www.dropbox.com/scl/fi/j17geu1io7xrgxxklhay2/Climate-Change-Complete-version.pdf?rlkey=699qaq95xtuxqn7nftb3tp8uf&st=xkxcuslm&dl=0;>

Global Warming and CO₂

Scientific Videos Worth Watching

- 1) **Dr. William Happer** https://youtu.be/pHCCE-sw_Sc <https://youtu.be/PbIYr-KjOVY>
<https://wattsupwiththat.com/2023/09/29/professor-william-happer-ipa-lecture-the-crusade-against-carbon-dioxide-september-2023/>
[\(1106\) Elimination of CO₂ is a suicide pact – Professor William Happer on climate change misconceptions - YouTube](#)
- The world has historically had 4 to 10 times more CO₂ concentrations and is presently starved of CO₂.
- 2) **Gregory Wrightstone** <https://youtu.be/aT2SvIAkE5s>; The Climate Crisis Scam
- 3) **NASA Engineer** [\(1132\) NASA Engineer Tom Moser Reveals the Truth About Climate Science - YouTube](#)
- 4) **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 \(rclutz.com\)](#)
- Shows there is **no climate catastrophe** associated with added CO₂ and associated climate change
- 5) **Dr. R Lindzen** [170\) Climate Science: What Does it Say? | Dr. Richard Lindzen | EP 320 – YouTube](#)
- Rejects 'Climate Change' as a quasi-religious movement predicated on an **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](#)
- 6) **Dr. Patrick Moore** [A Dearth of Carbon? – YouTube](#) PhD in Environment Co-founder Greenpeace
- Discussion on the **positive environmental impact of CO₂**, which is the fuel of plants and life
- 7) **Dr. Steven Koonin** <https://www.youtube.com/watch?v=YXvBdwmXT2c>
- There s no apocalypse climate crisis now or in the future
- 8) Slides from the presentation: **Endangerment Finding Endangers Our Fuels, Forests and Freedom** Gregory Wrightstone Aug 2025 [SPN For Distribution 2025 08 24 \(2\).pdf](#)

Global Warming and CO₂

David Attenborough's Climate Change 2007 predictions

[David Attenborough: 'Climate Change - Britain Under Threat' 14.01.2007](#)

Predictions for 2020 proven wrong; future forecasts in serious doubt

- 1) Glaciers all around the world are in recession: **Misleading** Glacial retreat has been constant since 1825
- 2) CO₂ highest level in last 600,000 years: **Misleading** CO₂ decreasing over last 150 million years from 2000ppm to present level of 420ppm
- 3) CO₂ is a powerful Greenhouse Gas: **Misleading** CO₂ only 5% of Greenhouse Gas; Ice core data shows that CO₂ increased after temperature increased
- 4) Temperatures have been rising since the Industrial Revolution: **Misleading** as temperatures have been rising at the same rate since last glaciation period and were significantly higher in the last 10,000 years
- 5) Computer models accurately predict future climate: **False**
- 6) By 2020 significantly more floods and Scotland have more prolonged rain, more droughts and heat waves in Southern Britain: **False** Britain weather records
- 7) By 2050 temperature rising by 2.5C and 2080 by 4C: **Highly unlikely** given present trends
- 8) By 2080 sea level up by 75cm or more with a serious flooding risk: **Highly unlikely** given the present trend of 20cm/100 years
- 9) Climate Change is the biggest single issue the human race now faces: **False**, scare-mongering

See the main presentation slides for support regarding rating these claims:

<https://www.dropbox.com/scl/fi/j17geu1io7xrgxxklhay2/Climate-Change-Complete-version.pdf?rlkey=699qaq95xtuxqn7nftb3tp8uf&st=xkxcuslm&dl=0;>

<https://www.telegraph.co.uk/news/2023/08/04/net-zeros-dam-has-burst-but-bbc-is-still-papering-over/>

Global Warming and CO₂

Reference Material

I invite you to look closer at the background reference information and analyses regarding these questions and my answers by viewing the following videos and reviewing the listed reference books.

<https://www.dropbox.com/scl/fi/j17geu1io7xrgxxklhay2/Climate-Change-Complete-version.pdf?rlkey=699qaq95xtuxqn7nftb3tp8uf&st=xkxcuslm&dl=0;>

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 CO₂, 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

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

180 Reference Videos – sorted by topic

i) Climate Change over time and causes of Climate Change

- 1) [Graeme Phipps Climate Change Presentation](#)
- 2) [Climate Greenland Ice Research – YouTube](#) 1000 years ago was 1.5 C warmer and 2.5C warmer 4,000 years ago.
- 3) <http://youtu.be/KtjeNvTwYeU> Impact of global factors on climate (eg. Nina and El Nino effects)
- 4) [Henrik Svensmark & Nir Shaviv - How the sun regulates our climate](#)
- 5) <https://www.youtube.com/watch?v=ftaUJg-ojoo> Dr. Gregory Wrightstone
- 6) [“Stripes Across My T-Shirt.”](#) Current conditions are not unusual except in being abnormally chilly.
- 7) <https://wattsupwiththat.com/2023/10/06/nothing-to-sea-here-folks/>
- 8) <https://wattsupwiththat.com/2023/10/07/marcel-crok-speaks-in-the-danish-parliament/>
- 9) [Solar Influence on Weather and Climate | Dr. Brian ... Dr. Brian Tinsley](#)
- 10) [THE REAL CAUSE OF CLIMATE CHANGE – The Highwire with Del ...](#)
- 11) www.co2learningcenter.com CO2 Coalition Introductory Videos
- 12) [New Evidence We Are Entering An Ice Age Termination Event](#) [Dr. Ben Miles](#)
- 13) <https://youtu.be/agNX9a2vyQE?si=8dNFaujgOvYEEKGR> Ian Plimer Climate Change: The Facts
- 14) [Bing Videos](#) Exposing the Net Zero Agenda Paul Burgess
- 15) Climate The Movie <https://www.youtube.com/watch?v=A24fWmNA6IM>
- 16) <http://youtu.be/KtjeNvTwYeU> Causes of climate change
- 17) Importance of Sun on Climate [Willie Soon](#)
- 18) Milankovitch Cycles <https://www.youtube.com/embed/1Mj16tiUyl4>
- 19) [Feed | CO2 Coalition Discussion Group](#) Climate Change and Extreme Weather Events Jim Steele
- 20) [Bing Videos](#) Hunga Tunga satellite view Cause of climate change

180 Reference Videos – sorted by topic

i) Climate Change over time and causes of Climate Change

21) <https://www.youtube.com/embed/1Mj16tiUyl4>

22) Water impact on global temperatures https://youtu.be/4swl8_4Lfwc;

23) [Greatest Mysteries of Climate Change.](#)

24) [At last the answer: how much warming is natural and how much warming is from mankind?](#) Paul Burgess

25) <https://www.youtube.com/watch?v=YKgsJupYJAo> Climate change in Sahara desert over time

180 Reference Videos – sorted by topic

ii) Claims of crisis due to CO₂-induced Climate Change

- 26) Late-season ice retention has improved drastically in the past 13 years <https://x.com/i/status/2021192423284617288>
- 27) [Dr. Patrick Moore - Carbon and Climate Catastrophe – YouTube](#)
- 28) Dr. Willie Soon [video](#) Historic CO₂ levels put in context with today's levels
- 29) Dr. Patrick Moore <https://www.instagram.com/reel/DH6NkhCKHJo?igsh=MXBsdTJ4cW53MDMoYw==>
- 30) [Data shows there's no climate catastrophe looming – ...](#) Dr. John Christy, Distinguished Professor of Atmospheric Science
- 31) www.foreignpolicyjournal.com/2016/01/01/nobel-laureate-ivar-giaever-on-climate-change Discredits claim of Global Warming as a crisis;
- 32) [Dr. Judith Curry - Bing video](#) Dr Judith Curry Discussion on Climate Change, including IPCC findings, historic development
- 33) [There's no emergency" – dissident climatologist Dr Judith Curry on climate change - YouTube](#)
- 34) <https://financialpost.com/opinion/lawrence-solomon-finally-its-safe-for-the-whistleblowers-of-corrupted-climate-science-to-speak-out>
- 35) <https://www.youtube.com/watch?v=DYWrehjaMFO> Dr. Richard Lindzen exposes climate change as a politic, profit ized power play
- 36) [Elimination of CO₂ is a suicide pact – Professor William Happer on climate change misconceptions – YouTube](#)
- 37) [Judith Curry: "Relax, there is no climate emergency!" – YouTube](#)
- 38) <https://youtu.be/KhCKYvETYDc?si=GWclipwVGIYTreDv> Jordon Peterson interview with Dr. Richard Lindzen
- 39) [Will Happer: CO₂, the Gas of Life | Tom Nelson Pod #158](#)
- 40) Alex Epstein <https://youtu.be/HWqv6RH-3WE?si=j9UvTxoGpdSiz-E8> importance of abundant, inexpensive energy
- 41) https://www.youtube.com/live/Ydl_47G8nzk?si=ZYBjfzdZEtNPV4K6 "Panel: Climate Science: the use of consensus"
- 42) [Bing Videos](#); Lord Monckton Net Zero Emissions – The Costliest Error of Physics and Economics in history
- 43) <https://www.youtube.com/watch?v=OjQupZVS-3A> Glacial retreat
- 44) <https://www.youtube.com/watch?v=ZFHhOBiUrkg> Potential motivational control factors behind the move to Carbon Neutral
- 45) https://www.theepochtimes.com/epochtv/nobel-laureate-john-clauser-there-is-no-climate-emergency-___climate-models-miss-one-key-variable-5486017
- 46) https://youtu.be/P_nH1BAFDhs?si=OVxNpHIBiUNkX2ot 97% consensus concerns
- 47) [It Is Easy Going Green](#) The vau of added CO₂
- 48) https://youtu.be/oModxLDUcoc?si=gqgEgruSRWhBl_hq Net Zero is Dying Jacob Rees- Mogg
- 49) Are present CO₂ levels unusual? <https://www.instagram.com/reel/DOtkpoBjzAT?igsh=MTg5NHfHMXV5dWF6ag==>
- 50) The crisis language comes from activists and the media, not from The Science they claim to cite. <https://x.com/i/status/2023427151538835841>

180 Reference Videos – sorted by topic

ii) Claims of crisis due to CO₂-induced Climate Change

51) Dr John Robson shows many scientists are changing their views [Finally A Real Tipping Point](#)

52) (5479) [Unsettled: Climate and Science | Dr. Steven Koonin | EP 323 – YouTube](#) Dr Jordan Peterson and Dr. Steven Koonin discuss the IPCC reports

53) [Climate Change: Separating Fact from Fear | Dr. Judith Curry | EP 329 – YouTube](#) Interview with Dr Judith Curry, Dr. Jordan Peterson

54) <https://youtu.be/oYhCQv5tNsQ> The Great Global Warming Swindle BBC March 8, 2007

55) <https://youtu.be/pV7TZzD1N5Q> Washington Post "Global Heat Waves

56) Media misrepresentation in reporting recent climate extremes [The Inconvenient Truth About Climate Science — Steven Koonin – YouTube](#)

57) [Inconvenient Truth: 32 Climate Predictions Proven False | Facts Matter \(youtube.com\)](#)

58) <https://youtu.be/spKTb3wMmJM?si=N195b4ezUGQ3u5Ni> Dr. Richard Lindzen on IPCC

59) [Inconvenient Facts: The Science That Al Gore Doesn't Want You to Know](#)

60) Interview with Matt Ridley UK Science <https://www.youtube.com/watch?v=LFPj8tNVoLQ>

61) [What's the Science Behind EPA's Proposed Rollback of Climate Regulations? | NTD](#) William Happer, Gregory Wrigthstone

62) <https://x.com/i/status/2035370856583409820> 365 years of temperature data from central England, the world's longest running climate record, show no trend

180 Reference Videos – sorted by topic

ii) Claims of crisis due to CO₂-induced Climate Change

- 63) ['Grossly exaggerated': Media gives 'little attention' to new ...](#) Interview with Dr Steven Koonin
- 64) Rising sea level and impact on small Islands video: <https://youtu.be/Yv83NJcmU7k>
- 65) Joe Rogan interview with Dr. William Happer and Dr Richard Lindzen https://www.youtube.com/watch?v=Zt32chvO_iY
<https://youtu.be/6bJsWeoNjmg> <https://youtu.be/zJng54iRhcM> <https://youtu.be/mdlGiBEBaQA>
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71 Referenced Scientists, Professionals

- **Ron Barmby** Professional Engineer
- **Robert Bryce** Reporter, author, filmmaker, and public speaker on energy, power, and politics
- **Paul Burgess** BSc, MSc, Eng Water Resource and Environmental, plus Computer Modelling experience and expertise
- **David Burton** BS in Systems Science Michigan State University, and an MA in Computer Sciences The University of Texas at Austin.
- **Dr H. Sterling Burnet** Director, Arthur Robinson Center Climate and Environmental Policy
- **Dr. Byron Caplan** professor of economics George Mason University
- **Dr John Christy** professor of Atmospheric Science and Director Earth System Science Centre Univ. of Alabama
- **Peter Clack** climatologist and researcher specializing in climate change and sea level rise
- **Roy Clark** retired engineer and climate researcher, Noble Prize for work on Climate Model Errors
- **Dr. John Clauser** [recipient of the 2022 Nobel Prize in Physics](#) ; degrees from Caltech and Columbia University.
- **Dr. Les Coleman** Engineer, distinguished academic and financial strategist in finance, risk management and sustainability
- **Dr. John Constable** Cambridge, Renewable Energy Foundation
- **Dr. Judith Curry** climatologist, former chair School of Earth and Atmospheric Sciences at the Georgia Technology.
- **Dr Adrian Demaid** Emeritus Professor of Engineering Open University, consulted on Sustainable Urban Development
- **Dr. Hadi Dowlatabad** (UBC) Canada Research Chair, Inst for Resources, Environment & Sustainability,
- **Thomas S. Drolet** Career in Energy, including Nuclear Power, Fusion Power, Nuclear Fuel Supply, major projects in Coal, Natural Gas, distributed generation, Oil and Renewables (Geothermal, Hydroelectric, Solar and Biomass).
- **Dr Freeman Dyson** PhD math, physics, Institute for Advanced Study in Princeton.
- **Alex Epstein** philosopher and energy expert, creator of EnergyTalkingPoints and Center for Industrial Progress
- **Dr Ivan Giaever** engineer and physicist who shared the Nobel Prize in Physics
- **Tom Gallagher** MSc Geoscientist

71 Referenced Scientists, Professionals

- **Dr. Indur Goklany** Science Policy advisor US Dept of the Interior, BA, MSc and PhD Electrical Engineering, Climate Policy Review
- **Steven Goreham** scholar, researcher in energy/environmental policy, engineer and business executive
- **Ken Gregory** B.AppSc, professional engineer
- **Dr. William Happer** Professor Physics, Princeton University, specialized in atomic physics, optics, spectroscopy
- **Dr. Ole Humlum** Meteorologist, former Professor of Physical Geography at the University Centre in Svalbard, Norway, and Emeritus Professor of Physical Geography, University of Oslo, Norway.
- **Dr. Les Hatten** mathematician, geophysicist, computer scientist, career in weather prediction and climatology
- **Dr. Howard "Cork" Hayden** Prof. Emeritus of Physics, University of Connecticut, USA
- **Tony Heller** realclimatescience.com
- **Dr. Roger Higgs** geologist
- **Walt Johnston** geophysicist
- **Dr. Vijay Jayaraj** MS environmental sciences U of East Anglia, energy management Robert Gordon University, engineering Anna University India
- **Mark Gerard Keenan** researcher, author, worked with the UK Dep of Energy & Climate Change, the U. N. Economic Commission for Europe.
- **Konstantin Kisin** British political commentator, comedian and co-host of the Triggernometry podcast
- **Dr. Steven Koonin** theoretical physicist, former director the Center for Urban Science and Progress at New York U
- **Lord Nigel Lawson** British politician, journalist who served Financial Secretary-Treasurer and Secretary of State Energy

71 Referenced Scientists, Professionals

- **Dr Richard Lindzen** (MIT) American atmospheric physicist atmosphere, atmospheric tides, and ozone photochemistry
- **Bjorn Lomborg** visiting fellow at the University of Stanford
- **Dr. Wallace Manheimer** – leading nuclear physicist
- **Dr. Euan Mearns** Geology Honorary Research Fellow at The University of Aberdeen
- **Mark Mills** Energy Expert and Senior Fellow Manhattan Institute
- **Lord Christopher Monckton** Cambridge graduate, journalist and political advisor
- **Dr. Patrick Moore** – ecologist UBC, co-founder of Greenpeace
- **Dr. Tom Moser** NASA Engineer
- **Jeremy Nieboer** Lawyer educated at Harrow School and Oxford
- **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 at 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 CO₂
- **Dr. Lars Schernikau** Commodity Trader, Energy Economist, Entrepreneur, Author
- **Michon Scott** and **Rebecca Lindsey** Paper of earth temperature history
- **Dr. Nir Shaviv** Professor at the Racah Institute of Physics of the Hebrew University of Jerusalem.
- **Michael Shellenberger** Environmentalist

71 Referenced Scientists, Professionals

- **Dr S. Fred Singer** Atmospheric 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** Executive 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 Scientific 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 CO2 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

Global Warming and CO₂

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 CO₂ 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.

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Reference Material Source David Burton

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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Reference Material Source David Burton

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Reference Material Source David Burton

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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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 CO₂ (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 CO₂ 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](#).

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(*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 CO₂ 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 a 501(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.

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43. [The CO₂ Coalition](#) is another 501(c)(3) educational charity, with a powerhouse board of scientific experts, dedicated to promoting scientific accuracy about the effects of CO₂ 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 CO₂ 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

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mankind's CO₂ 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