

Global Warming and CO₂

Challenging the Cause of Global Warming: Myth vs Reality

The Relationship of CO₂ to Temperature and Climate Change Over Geological Time

A Case Against Mankind's CO₂-Induced Climate Warming Crisis

Presentation by Graeme Phipps to the Societe Jersiaise Geology Group Feb.12, 2025

Global Warming and CO₂

Challenging the Cause of Global Warming: Myth vs Reality

Given my professional background as a geologist and geophysicist, I am aware of prior ice ages, climate change and changing sea levels that occurred throughout geologic history. **I was surprised by claims that mankind was causing a “climate change crisis”.**

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

This drove me to research this subject in much more detail.

This presentation shows the results of my research obtained from 40 books, 376 articles, 180 videos and 71 well-respected and highly competent scientists and professionals.

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Global Warming and CO₂

Challenging the Cause of Global Warming: Myth vs Reality

These **results are contrary** to what is being said in mainstream media

“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**”. Tolstoy

I encourage you to listen with an open mind.

[Graeme Phipps Climate Change Presentation](#)

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

Climate Crisis Scam <https://youtu.be/aT2SvlAkE5s>; Gregory Wrightstone

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

Cause of climate change <https://www.youtube.com/embed/1Mj16tiUy14>

https://youtu.be/oModxLDUcoc?si=gqgEgruSRWhBl_hq Net Zero is Dying Jacob Rees- Mogg

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

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/lRWQ32FGX8o>

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 EMERGENCY 2,000+ scientists

Global Warming and CO₂

CO₂ and Climate Crisis Findings: Myth vs Reality

“The Science” doesn’t support a CO₂ Climate Crisis:

Carbon dioxide has two relevant properties: as a creator of food and oxygen, and as a greenhouse gas

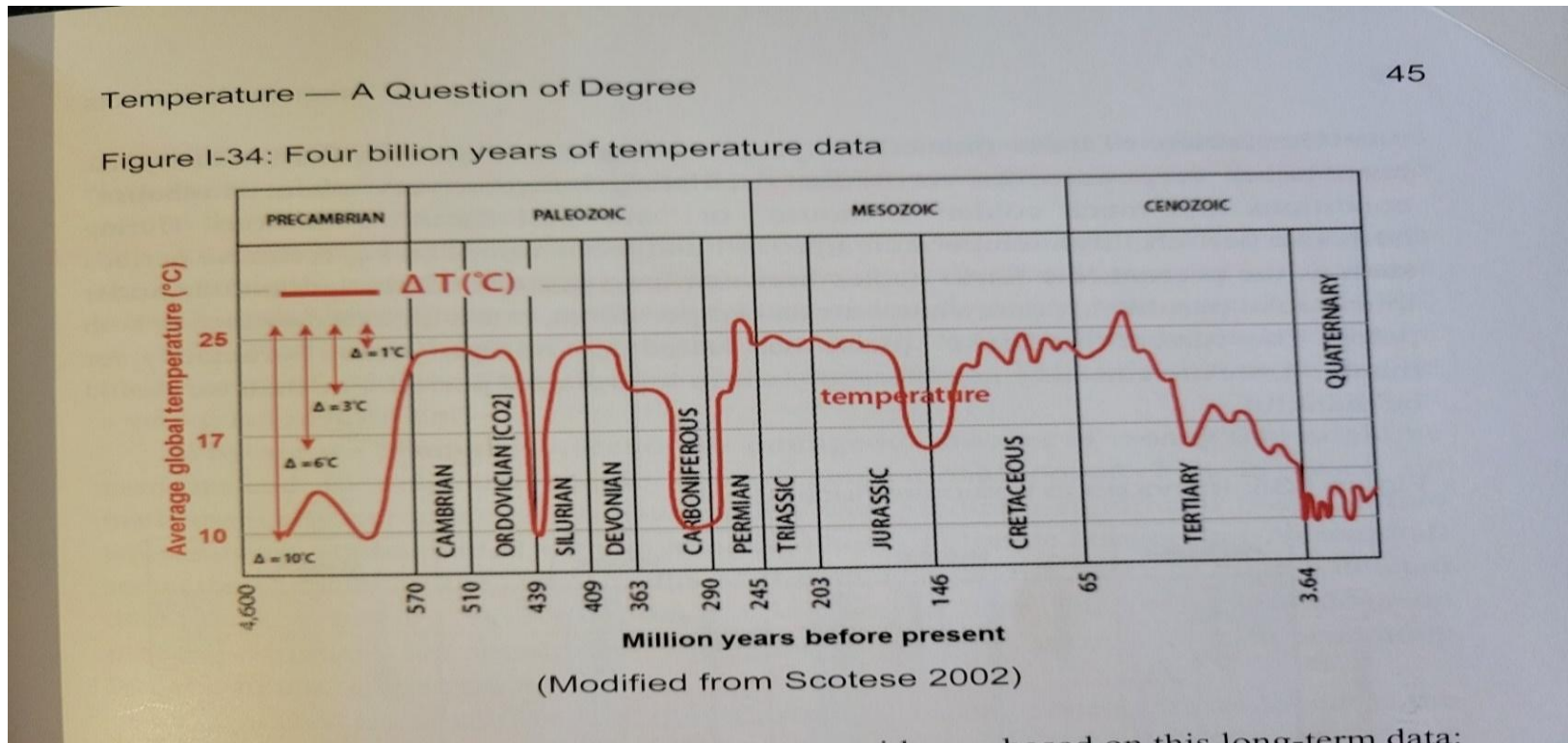
- 1) Global Warming is happening, but this is normal and has been happening throughout geologic history.**
- 2) Warmer temperatures are good**
- 3) More CO₂ is good**
- 4) Global Warming is not caused by increased CO₂, which has only a very minor and ever-decreasing impact**
- 5) We are not in a “Climate Crisis”**
- 6) The Science is not “Settled”**

1) Warming temperatures are not unusual

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

- Changing temperature is a natural phenomenon.
- Over most of recorded geologic history, temperatures were much higher than at present time.

Temperature Changes Over 600 Million Years of Geologic History



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

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

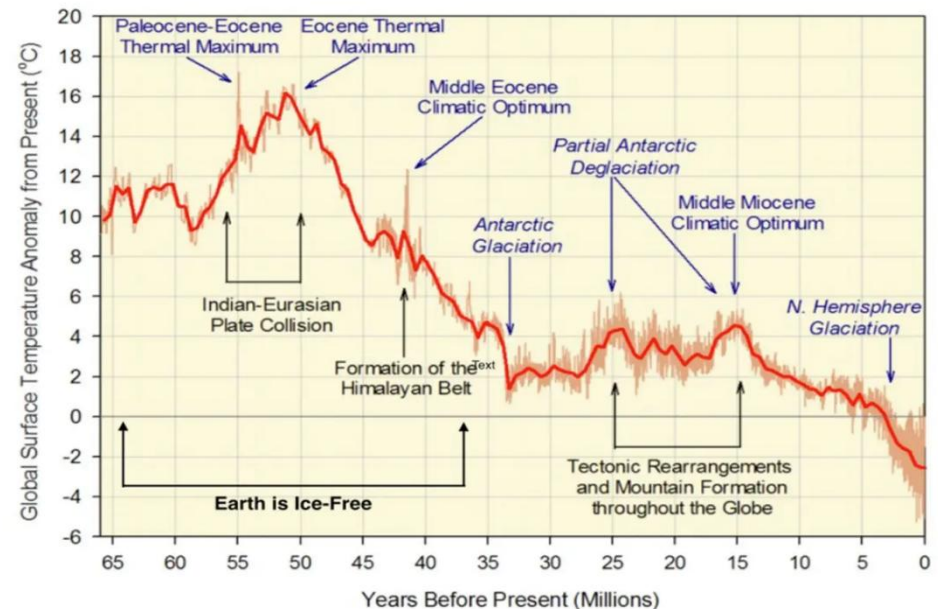
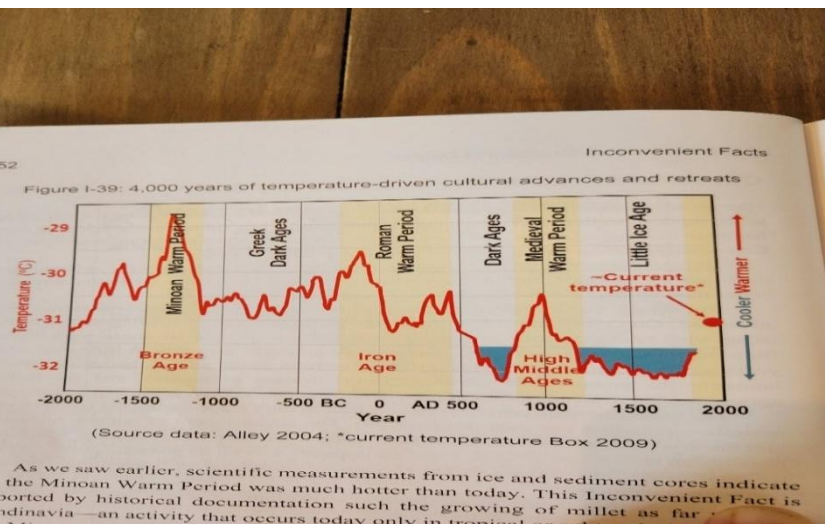
Paper: An Assessment of the Conventional Global Warming Narrative. Dr. Richard Lindzen Published by the Global Warming Policy Foundation Sept. 22, 2022

2) Warmer temperatures are on balance good 4000 years of temperature-driven cultural advances and retreats

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

4000 Years of Temperature-Driven Cultural Advances and Retreats.

Global Temperature for the past 65 million years

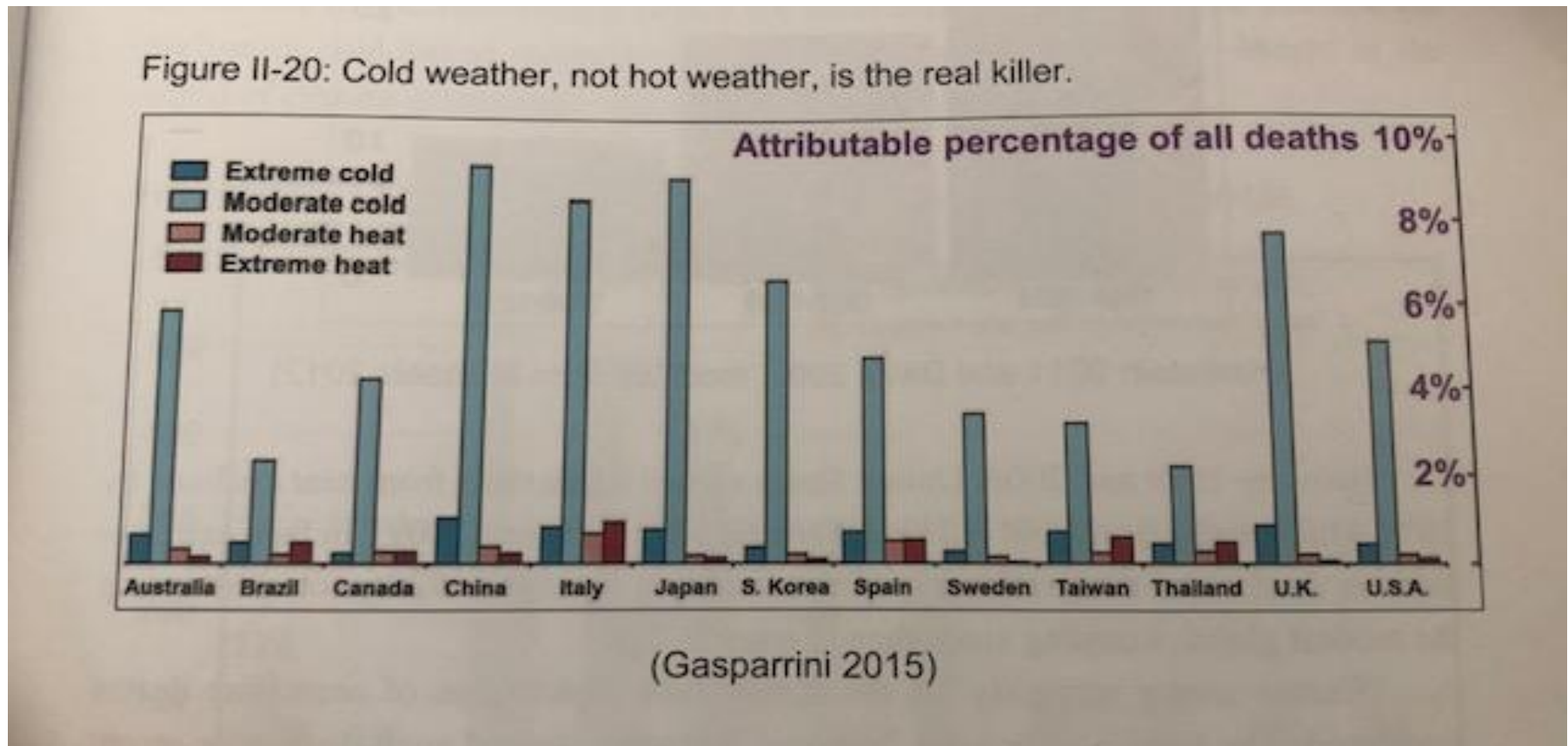


2) Warmer temperatures are on balance good

Deaths from cold temperatures are much greater than from warm temperatures*

- Four to five times more people have died related to cold temperatures than warm temperatures.

Higher Percentage of Global Deaths Attributed to Cold Vs Warm Temperatures (1985 – 2012)



Reference book: Inconvenient Facts page 83; Cool It Pages 17, 38

Source: Gasparrini 2015

2) Warmer temperatures are on balance good

Human crises were much higher during the period of a deteriorating, colder climate
Historically, mankind thrived under warmer temperatures and suffered during cold spells.

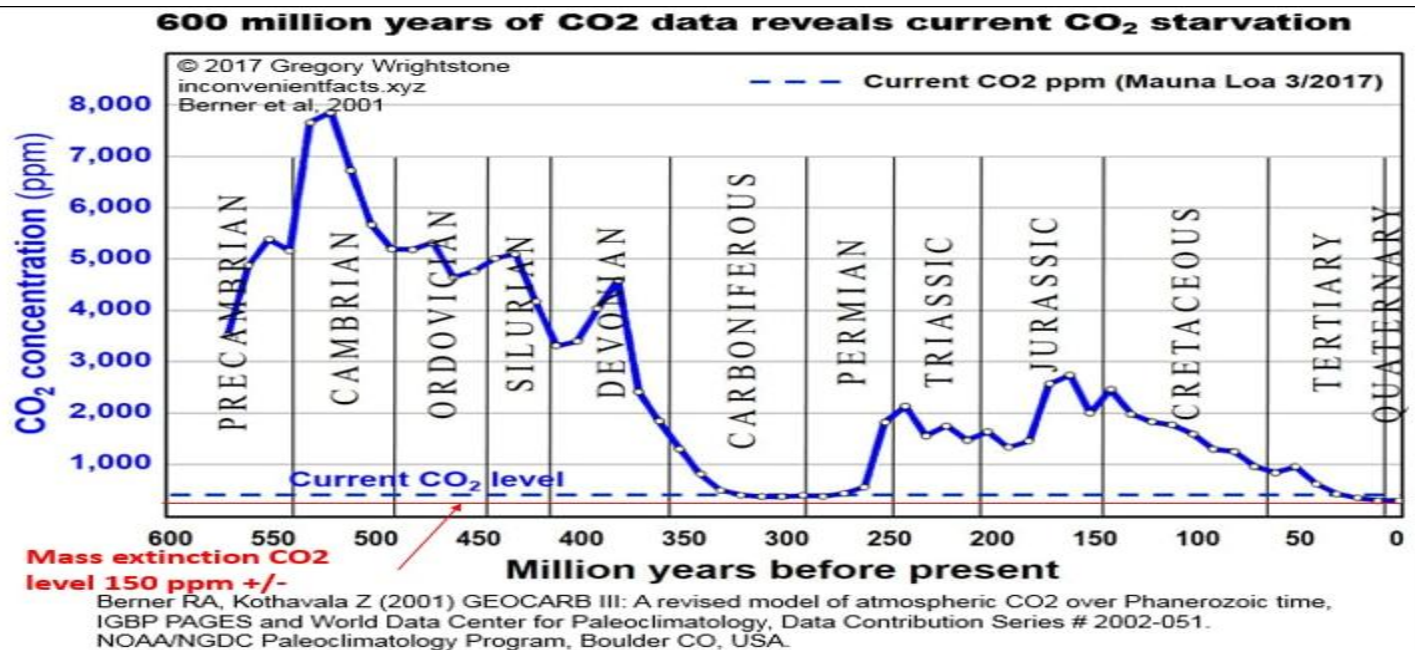
Historically, War Occurrences Correlate with Periods of Cold Climate

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

3) Higher CO₂ levels are not unusual and are good for plant life

Global CO₂ levels changed dramatically over the last 600 million years

- CO₂ levels have been much higher throughout geologic time.
- CO₂ highs in the Jurassic time of dinosaurs were about 2,800 ppm (7 times higher than today) and nearly 8,000 ppm in the Cambrian period when recorded life began on Earth. Today's CO₂ concentration is 420 ppm
- Concentrations up to 1,000ppm are common and safe in classrooms and large public indoor gatherings.
- US Navy submariners breathe 3000 to 5000 ppm of CO₂ for 3-month tours with no health impact



Reference book Inconvenient Facts page 16p

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

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

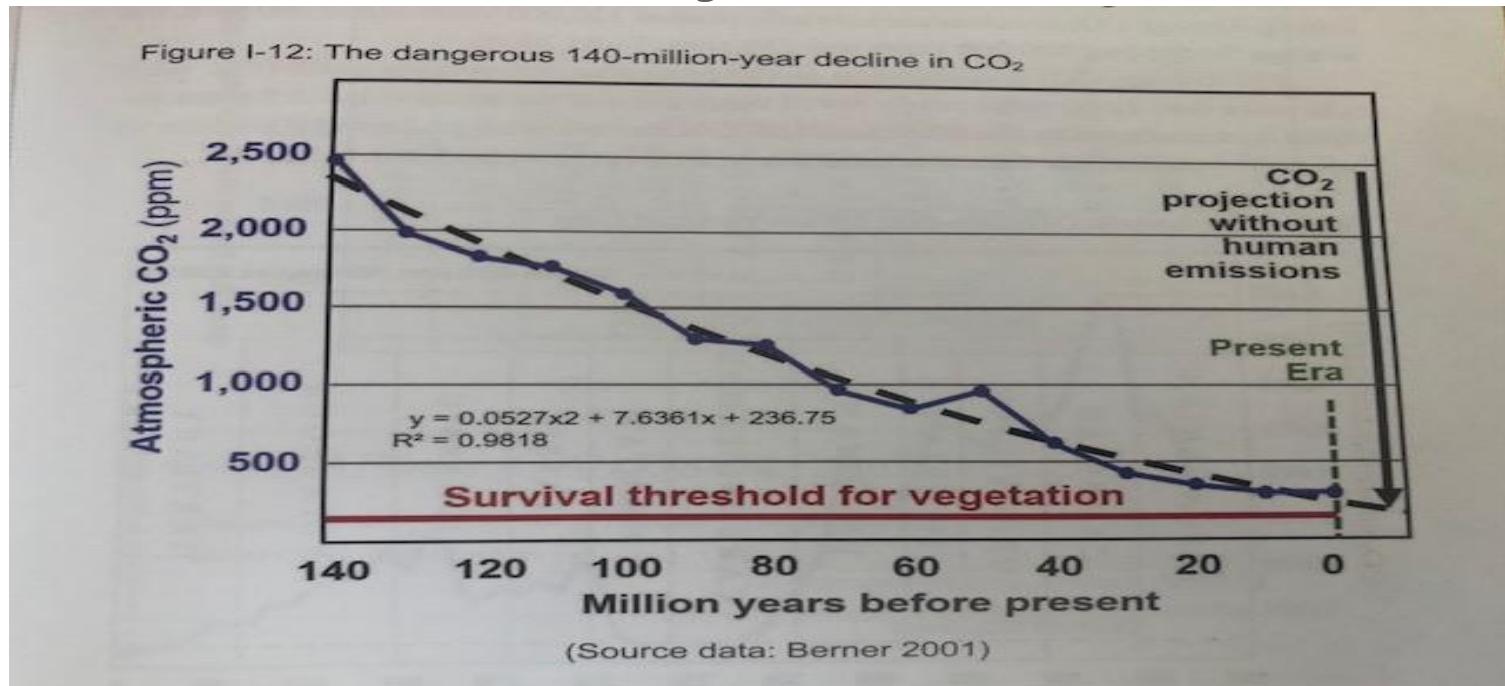
<https://www.instagram.com/reel/DQtkpoBjzAT/?igsh=MTg5NHFhMXV5dWF6ag==>

3) Higher CO₂ levels are not unusual and are good for plant life

CO₂ levels decline over last 140 million years close to level needed for plant survival

- Over the last 140 million years, CO₂ levels have dropped to a recent low of 180 ppm.
- A further 30 ppm decline in CO₂ would bring about the end of plant life.
- Mankind's CO₂ emissions have reversed this trend, bringing CO₂ levels up to 420 ppm.

CO₂ Levels Declining Over Last 140 Million Years



Reference book: Inconvenient Facts page 15

Source data: Berner 2001

[Dr. Patrick Moore - A Dearth of Carbon? - YouTube](#)

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

3) Higher CO₂ levels are good for plant life

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

- More CO₂ has resulted in more rapid plant growth with significant greening.
- Increased CO₂ levels mean plants require less water to grow.
- NASA satellite images show vast regions with increased growth due mainly to higher levels of CO₂
- . Since 1980, the semi-arid areas have greened by 40%
- Temperate and Arctic regions are affected much more than tropical areas

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/M8iEEO2UlbA> William Happer

3) Higher CO₂ levels are good for plant life

Increases in CO₂ have very beneficial effects

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?

3) Higher CO₂ levels are good for plant life

Increases in CO₂ have very beneficial effects

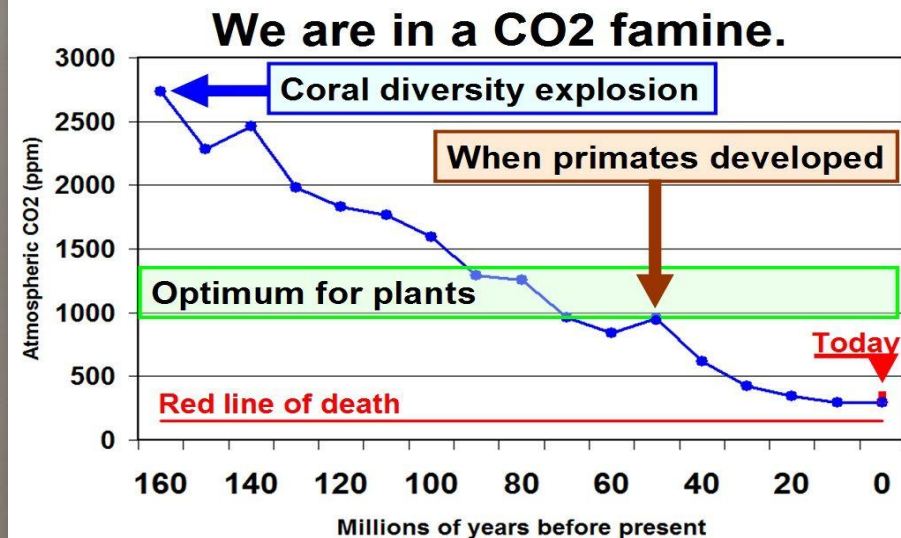
Positive Impacts of Added CO₂

- 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.

3) Higher CO₂ levels are good for vegetation

Test shows improved tree growth with higher CO₂ levels

- Greenhouse gases keep the world warm; they absorb heat and radiate it back to Earth, warming the surface and atmosphere; humans could not exist on Earth without this warming effect.
- When CO₂ increases, plants thrive, becoming larger and able to absorb more CO₂.
- These trees were grown under the same conditions except with varying CO₂ atmosphere levels.
- A standard procedure for greenhouse growers is to increase the level of CO₂ to 800 to 1,200 ppm.
- Improving Tree Growth With Increasing CO₂ Levels Optimum plant growth CO₂ levels 1000 – 1400ppm



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

<https://youtu.be/PbIYr-KjOVY>

[Trees Get Bigger Around the World Thanks to Higher CO₂ Levels](https://www.nbcnews.com/world/latin-america/amazon-rainforest-giant-trees-bigger-carbon-dioxide-climate-change-rcna234064)

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

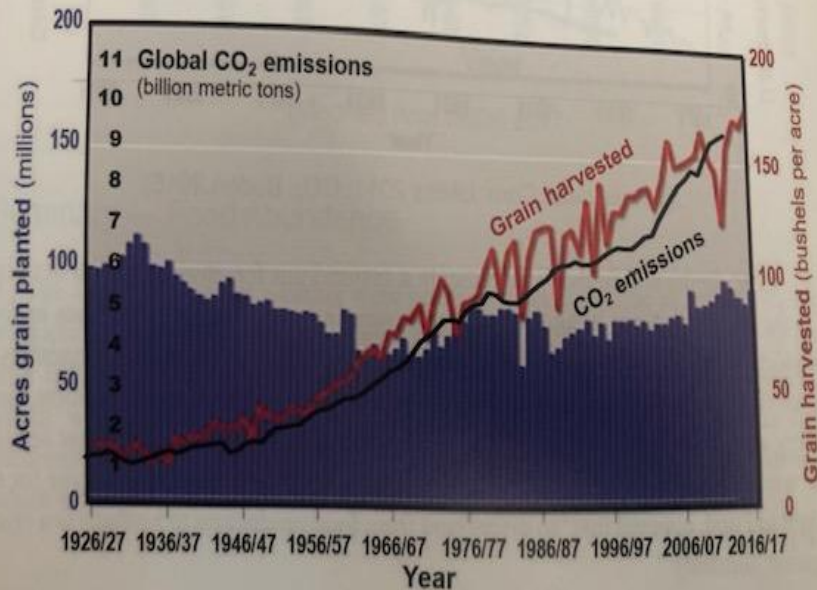
3) Higher CO₂ levels are good for plant life

Crop yields and per-acre crops improved with higher CO₂ and temperature levels

- CO₂ works as an aerial fertilizer. Increases in CO₂ benefit crop production.
- Global warming lengthens growing seasons, reduces frost events and adds available farmland

Increases in Bushels of Grain Harvested Worldwide Higher Crop Yields With Increasing CO₂

Figure II-14: Bushels of grain per acre harvested worldwide, 1936/37 – 2016/17

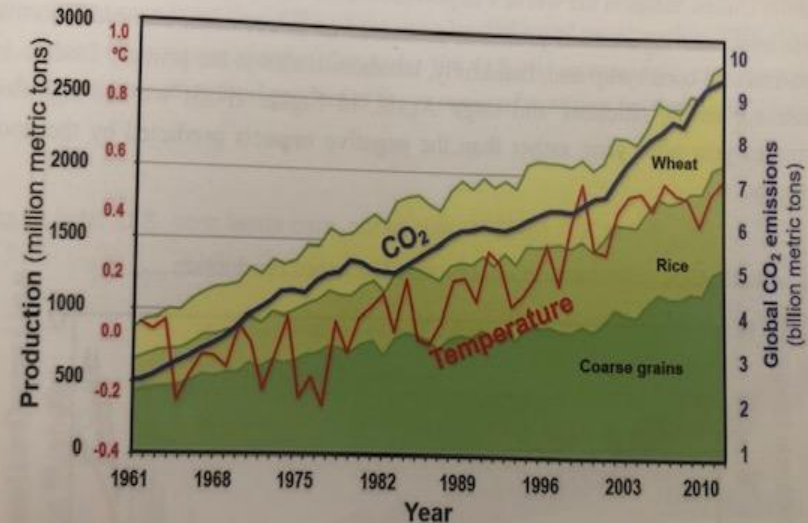


(Acres planted and grain: USDA 2017, CO₂: Boden 2016)

Famine: The Best Solution is More CO₂ and Increasing Temperature

77

Figure II-13: World grain production, CO₂ concentration and temperature, 1961 – 2014



(Source data: grain: UN FAO 2017, CO₂: Boden 2016, temperature: HadCRUT4 2017)

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

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

Source: Acres planted and grain USDA 2017, CO₂ Boden 2016

3) Higher CO₂ levels are good for plant life

Tests show improved crop yields with increased CO₂ for plants

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

Improving Crop Yield With Increased CO₂ Levels



Reference book: Inconvenient Facts page 20

Source: Idso2013, courtesy Monckton 2017

4) Global Warming is not caused by increased CO₂

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.

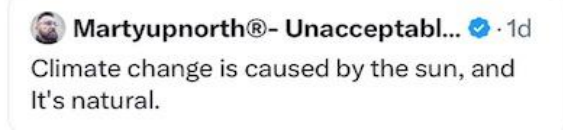
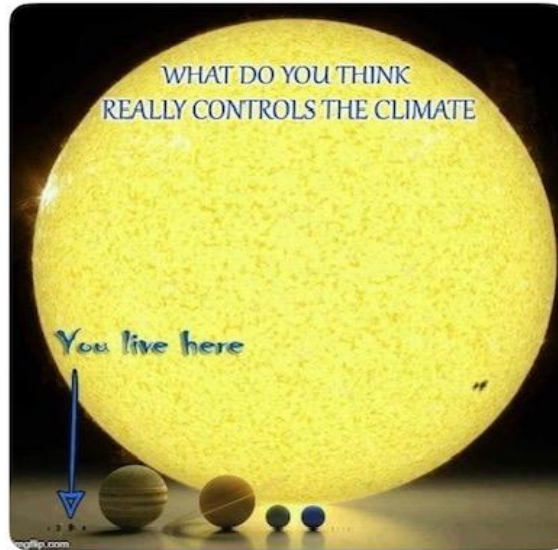
If carbon dioxide truly controlled the climate, the CET record would shoot upward on the right. It does not.

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

4) Global Warming is not caused by increased CO₂

Factors that impact Climate Change

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



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/>

4) Global Warming is not 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

4) Global Warming is not caused by increased CO₂

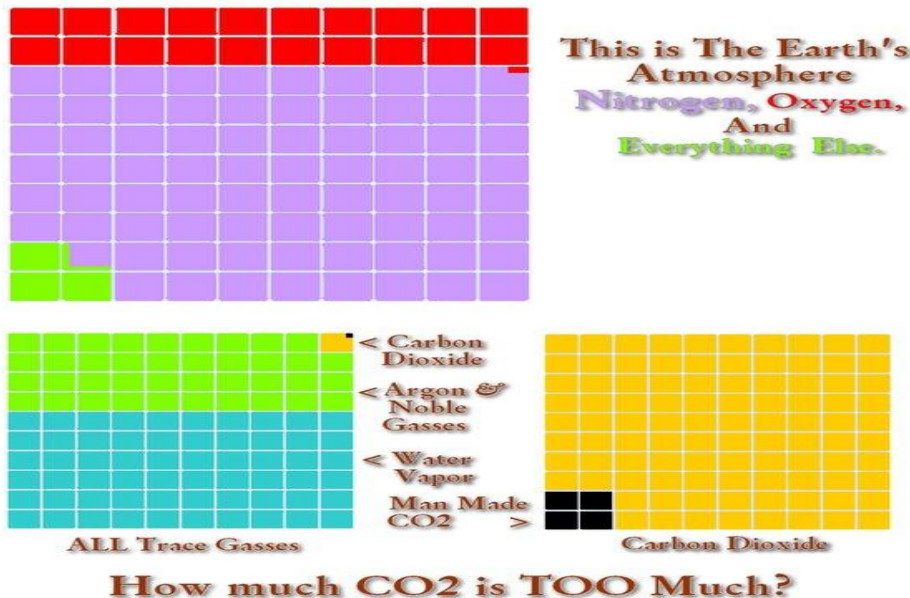
Ocean currents, clouds and the urban heat island effects also impact Climate Change

- 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

4) Global Warming is not 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



Atmospheric Composition

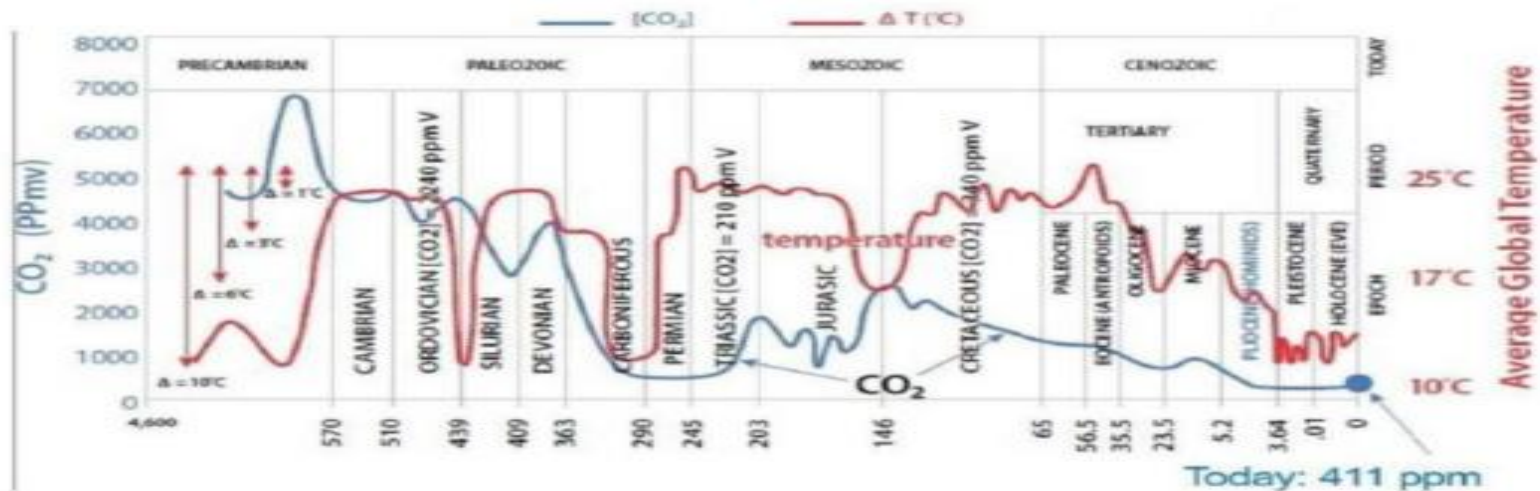
	% ppmv	
N ₂ + O ₂	99%	78% N ₂ 21% O ₂ . Largely invisible to infrared rays
H ₂ O	0.4%	Varies greatly with location and weather, 0% in cold regions, 5% in the warm tropics (50,000 ppm)
CO ₂ total	0.0397%	Increased by 22% 1990-2025 ³²⁰ to reach 427ppm
CO ₂ anthro	0.0011%	The anthropogenic contribution 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

4) Global Warming is not caused by increased CO₂

Temperature and CO₂ changed independently over the last 600 million years

- There is no correlation between changing CO₂ levels and changing temperatures over geologic time.
- For example, CO₂ values peaked at more than ten times the current levels 150 million years ago in direct contrast to dropping temperatures
- Temperatures then began a long, gradual decline, while temperatures remained flat till 50 million years ago, when temperatures also began declining (much later than dropping CO₂)

Geological Timescale: Concentration of CO₂ and Temperature fluctuations



1- Analysis of the Temperature Oscillations in Geological Eras by Dr. C. R. Scotese © 2002. 2. Ruddiman, W.F. 2001. Earth's Climate: past and future W.H. Freeman & Sons. New York, NY. 3 - Mark Pagani et al. Marked Decline in Atmospheric Carbon Dioxide Concentrations During the Paleocene. Science, Vol. 309, No. 5734, pp. 600-603. 22 July 2005. Retrieved on 07 July 2008 (CO₂: Ordovician Period).

Reconstructed atmospheric carbon dioxide concentrations (Berner, 2001) & global mean surface temperature [Scotese, 1999] over the last 550 million years.

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

Reference book The Real Inconvenient Truth page 77, 81

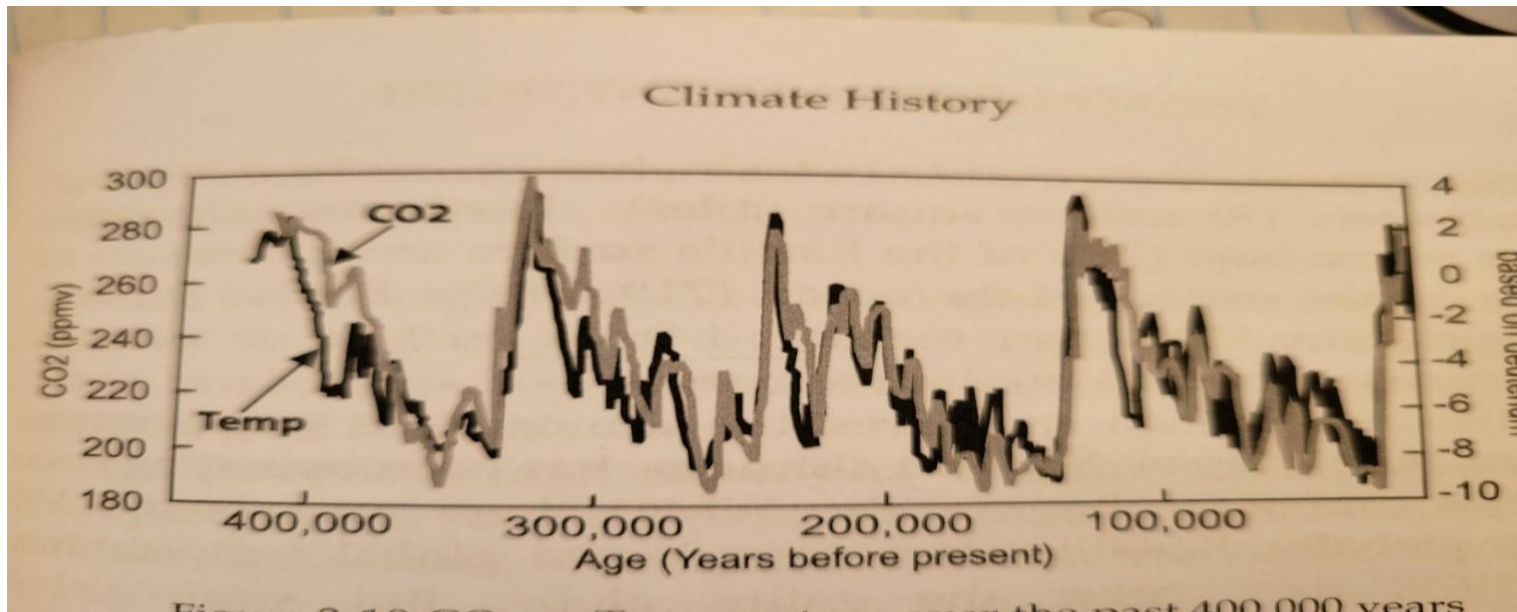
[What's the hottest Earth's ever been? | NOAA Climate.gov](http://www.noaa.gov)

4) Global Warming is not caused by increased CO₂

Glacier cores show temperature changed before CO₂ changed*

- Changing glaciation periods are tied to changes in Earth's orbit and have occurred over the last 800,000 years
- As seen in historic ice records, 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 pages 80, 81

Source Adapted from U.S. Dept. of Energy: No one has shown human emissions of CO₂ drive Global warming

<https://www.facebook.com/share/19rXoXP3Wa/> <https://www.facebook.com/share/19rXoXP3Wa/>

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

[The Truth about Atmospheric Carbon Dioxide with Dr. Matthew M. Wielicki](#)

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

4) Global Warming is not 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

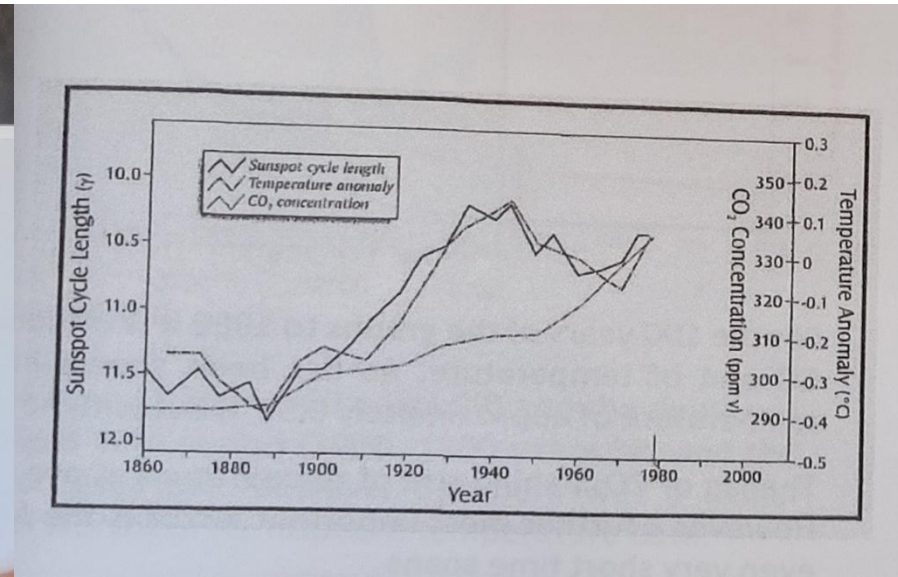
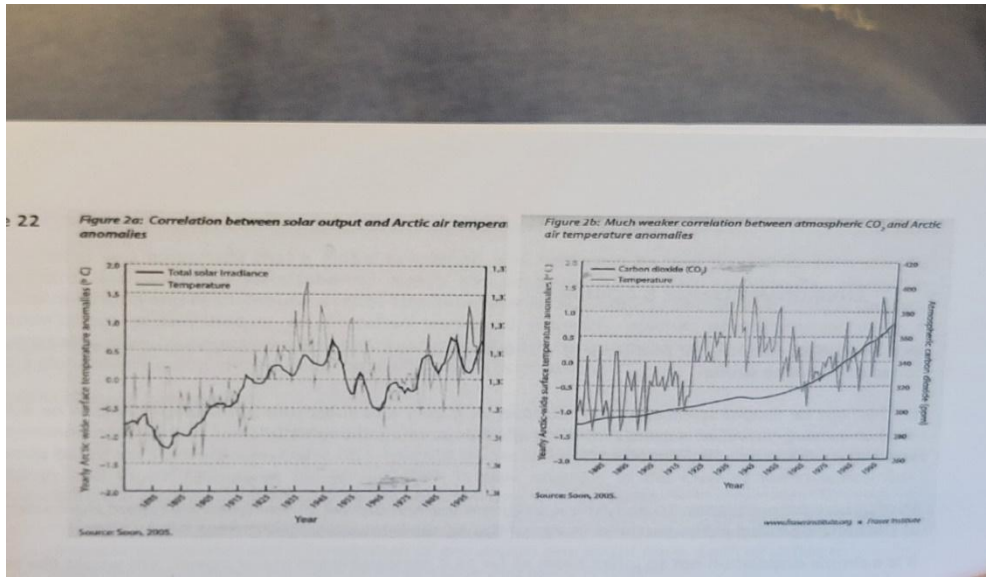
4) Global Warming is not caused by increased CO₂

Temperature changes correlate with Sun Spot changes

- There is no correlation between recent temperature increases and CO₂ concentrations.
- There are large and persistent correlations between solar activity and climate variations.

Arctic Temperature, Solar Irradiance and CO₂

Solar Activity, Temperature and CO₂



Reference book: Climate All Is Well, All Will Be Well page 28, 29

Source: Soon, 2005; www.fraserinstitute.org

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

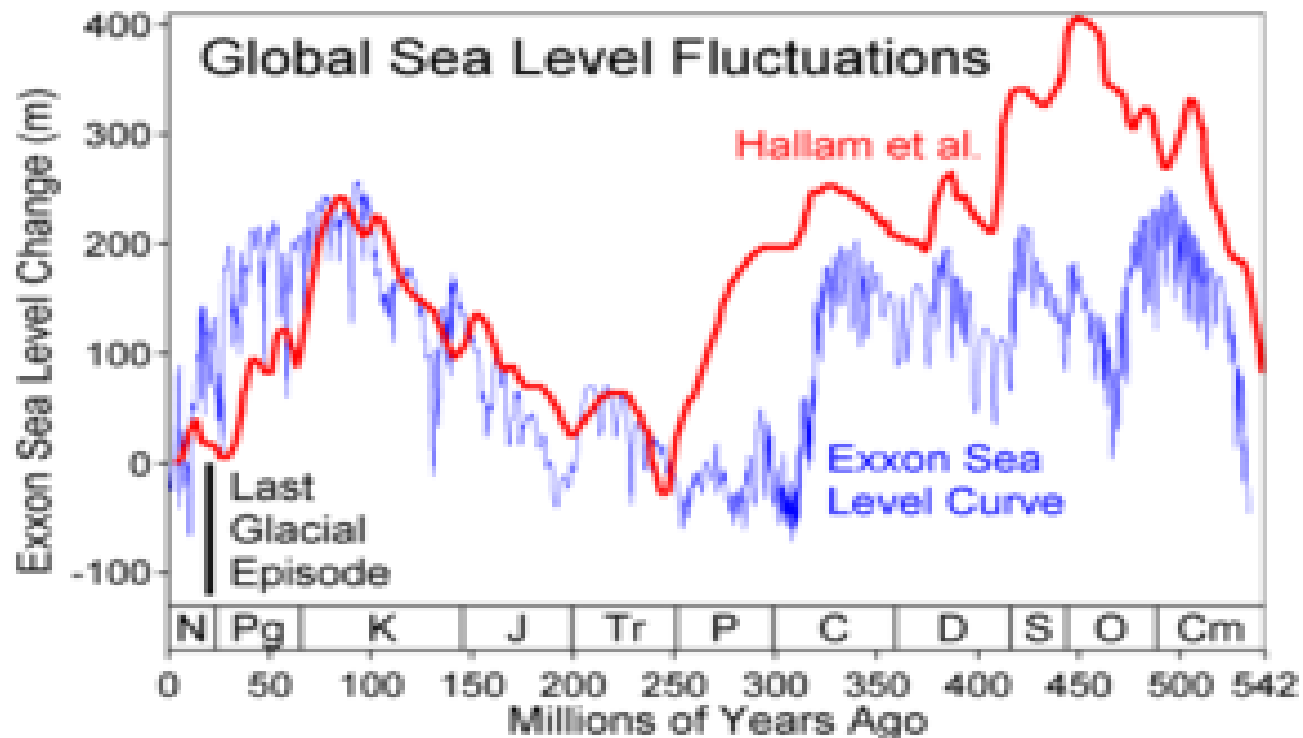
[info/global-warming-is-caused-by-the-sun-not-co2/](#)

33 points proving 'Global Warming' is caused by the Sun and not CO₂ by Dr. Roger Higgs

4) Global warming is not caused by increased CO₂ - Sea Levels

Sea level has changed significantly over the last 542 million years*

- Global sea level has continually changed over Earth's history
- The main factors affecting sea level are the amount of available water, including water taken up as ice caps and the shape and volume of the ocean basins.



- Geologists have used this global sea level change information to assist their exploration efforts.

Source: Wikipedia, Peter Vail publications

Source: Heaven and Earth, Global Warming and the Missing Science Plimer 2009

4) Global warming is not caused by increased CO₂ - Sea Levels

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.

<https://x.com/i/status/2027549315586265239>

4) Global Warming is not caused by increased CO₂ – Sea Levels

Evidence of Jersey's lower sea levels: dolmens and petrified wood remains on present day beach sites

- Over 7,000 years ago, the sea level in Jersey was much lower. At that time, when mankind was building dolmens, Jersey was connected by a land bridge to France
- Similar dolmens are also present east of Jersey on mainland France.
- The presence of petrified trees from an ancient forest along St Ouen's beach also proves that forested land existed where now, with a higher sea level, a coastal beach is present.

6000 year Old Neolithic Dolmen at St Martin, Jersey

St Ouen's Petrified Forest Remains



La Pouquelaye d'Faldou
La Pouquelaye de Faldouet

Along the path is a clearing with a passage grave built around 6,000 years ago.

In the clearing is a passage grave built to align with the rising sun on the spring and autumn equinoxes. People were buried here and their remains were found with pottery, two polished stone axes and two stone pendants. The skeletons of the three adults and two children buried here were found without skulls.

Originally, the monument was covered by a low mound with two drystone walls and a ring of upright stones. The main chamber is oval and surrounded by a limestone basin. The second chamber is covered by a massive T-shaped capstone. Above the heavy irregular capstone, all of the granite stones and the upright stone case were transported uphill by men within one and half miles of this site, taking lots of effort to move.

Ancient places are often the source of myths and legends. Pouquelaye or pauculie is a Breton word meaning stones of the fairies. Today, farmers in this area plant flint in the womb of the sun and use a lady's foot to sow to create the perfect conditions for growing Jersey Royal potatoes.

This dolmen has been named the site of the lost kingdom of the Carantons and is said to have been the seat of an international treaty signed under the name of Carantons.

Geofact
The presence of the passage grave and other Neolithic sites in Jersey is a testament to the fact that the island was once part of a larger landmass. The presence of the passage grave and other Neolithic sites in Jersey is a testament to the fact that the island was once part of a larger landmass.

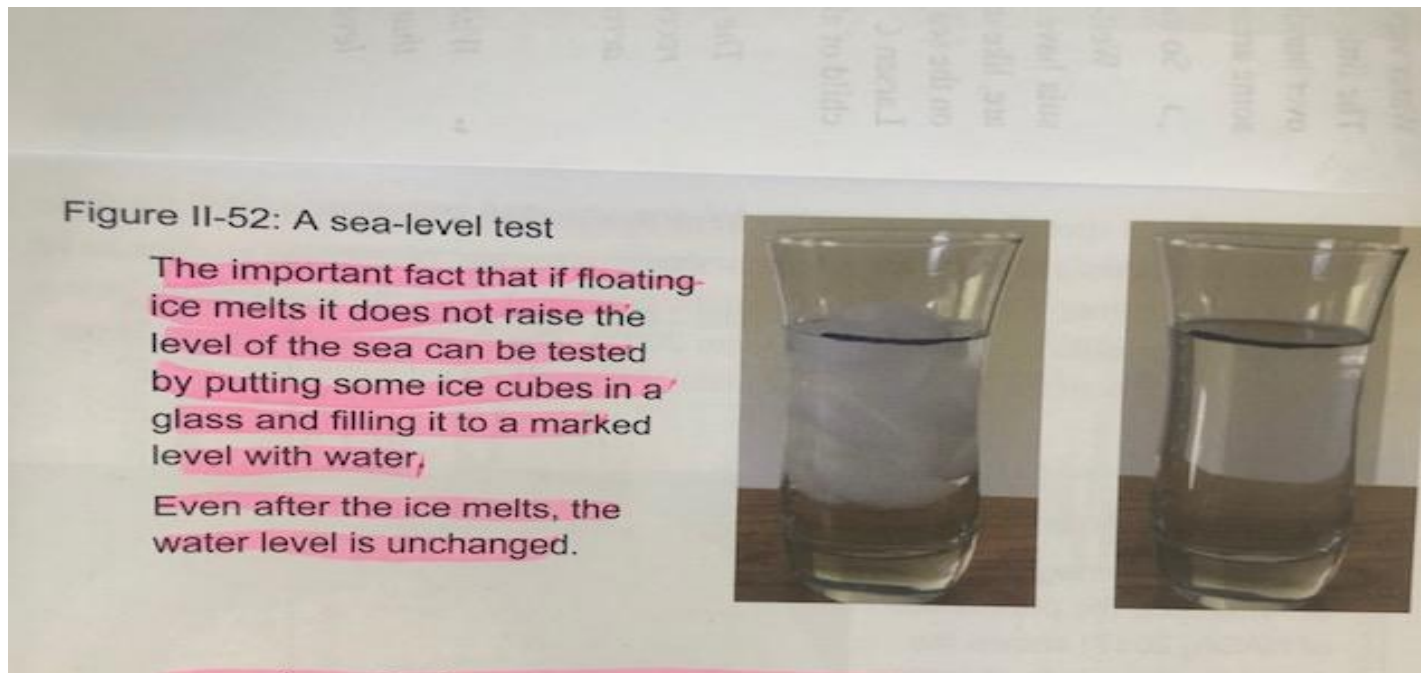


4) Global warming is not caused by increased CO₂ - Sea Levels

Experiment shows water level doesn't change from melting ice in water*

- When ice in a glass of water melts, there is no change in water level. The ice cube displaces its own weight in the underlying water. The water level remains constant when the ice melts because the melting process replaces the water that has already been displaced by the ice. This effect is known as **Archimedes' principle**.
- Melting the remaining polar ice caps that float on water will not impact sea levels; **only melting the remaining ice on land can raise sea levels.**

Water Level Test: Ice in Water and Melted Ice – No Change in Water Level

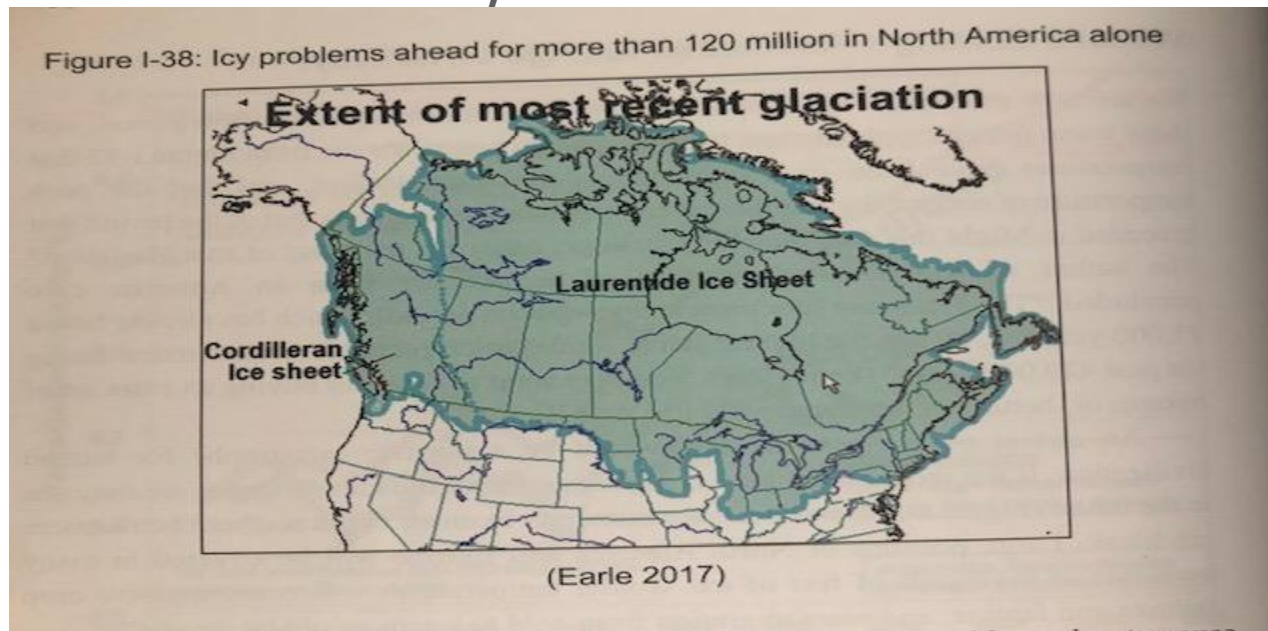


4) Global warming is not caused by increased CO₂ - Sea Levels

This map shows the extent of the most recent glaciation over North America

- Following glaciation, **sea level rise was due to the ice melting.**
- **Most of North America's large ice cap has now melted** and resulted in a previously experienced rapid rise in sea level.
- Only Greenland, Iceland, Alaska, Canada and Siberia now contain glaciers in the Arctic region.
- The remaining global **ice caps on land are now much less, with correspondingly less impact.**

Extent of Most Recent, Melted North America Glaciation



Reference book: Inconvenient Facts page 50

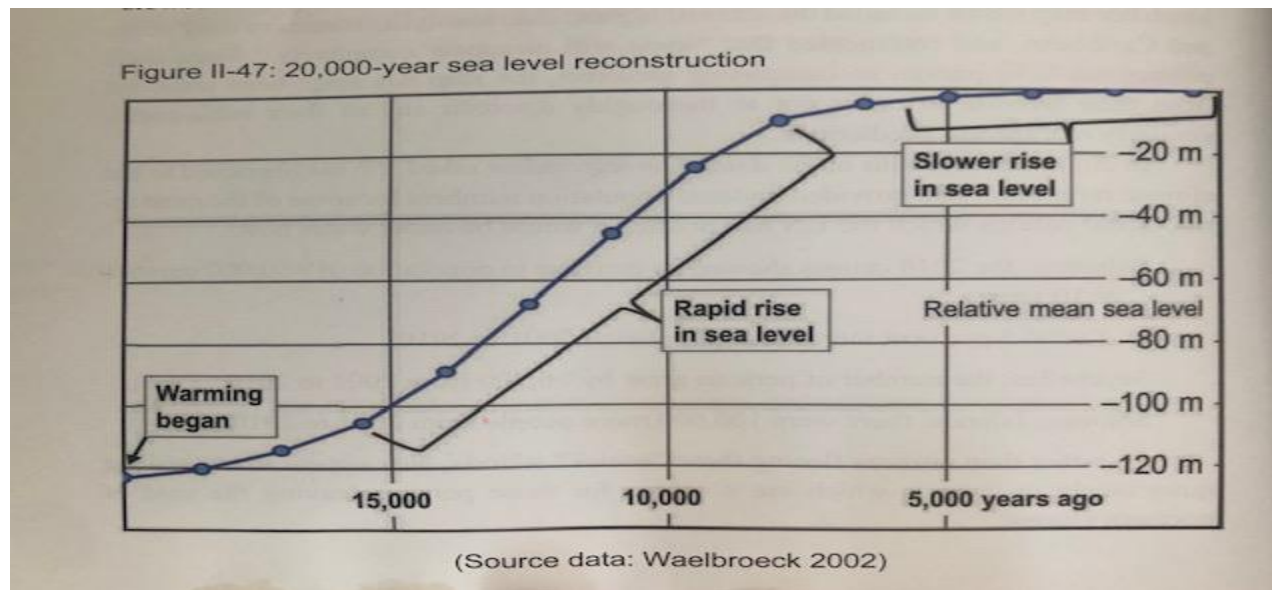
Source: Earle 2017

4) Global warming is not caused by increased CO₂ - Sea Levels

Graph showing stages of sea level rate changes through melting ice cap over the last 20,000 years

- Over the last 6 million years, the primary driver of sea level changes was periods of glaciation, which locked up huge amounts of water, drawing down sea levels, followed by periods of melting and rising seas. Warming with ice melting resulted in rising sea levels.
- As the remaining ice on land is reduced, the sea level rise impact is also reduced.

2000-Year Sea Level Reconstruction



Reference book: Inconvenient Facts page 114

Source: Waelbroeck 2002

4) Global warming is not caused by increased CO₂ - Sea Levels

The rate of sea level rise between 1700 and 2000 did not change with increasing CO₂

- From 1898 to 1998 sea level has risen 20 cm, which is the same rate (20 cm per 100 years) over the previous 100 years.
- There was no change in the rate of sea level rise with more recent CO₂ increases.
- The rate of glacier shortening and ice melting has also remained constant since about 1825 and shows no impact due to recent, higher CO₂ levels.

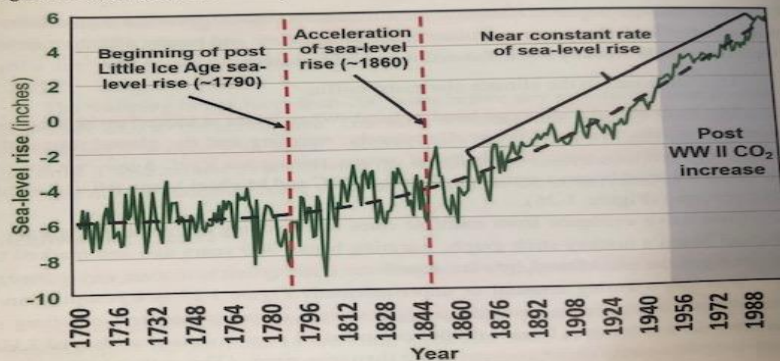
200 Years of Constant Sea Level Rise

200 Years of Constant Glacial Retreat

Sea Level Rise 1700 – 1988

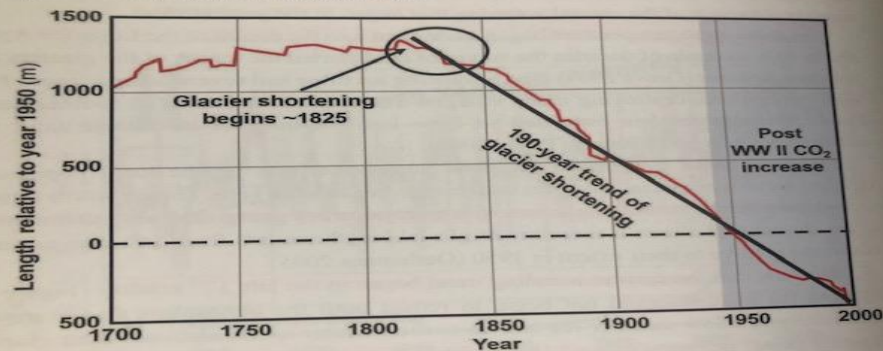
200 Years of Constant Glacial Retreat

Figure I-26: Greater than 200 years of sea-level rise



(Source data: Jevrejeva 2008, PSMSL 2008)

Figure I-25: 200 years of glacial retreat



(Source data: Oerlemans 2005)

Reference book: Inconvenient Facts

Source: Jevrejeva 2008, PSML 2008

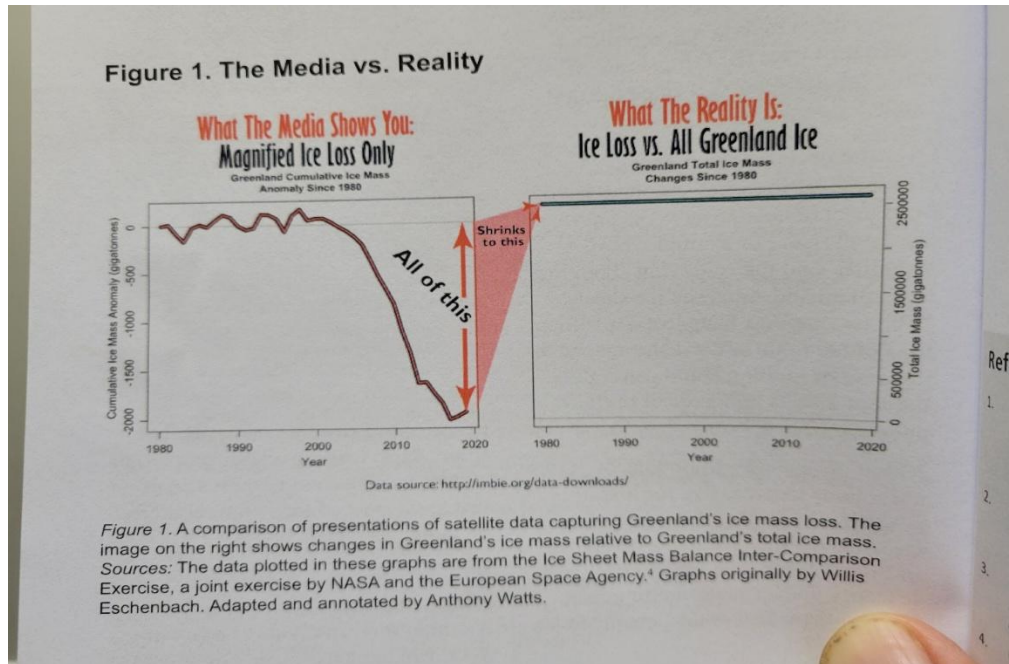
Video Ivan Giaever: <http://www.foreignpolicyjournal.com/2016/01/01/nobel-laureate-ivar-giaever-on-climate-change/>

4) Global Warming is not caused by increased CO₂ - Sea Levels

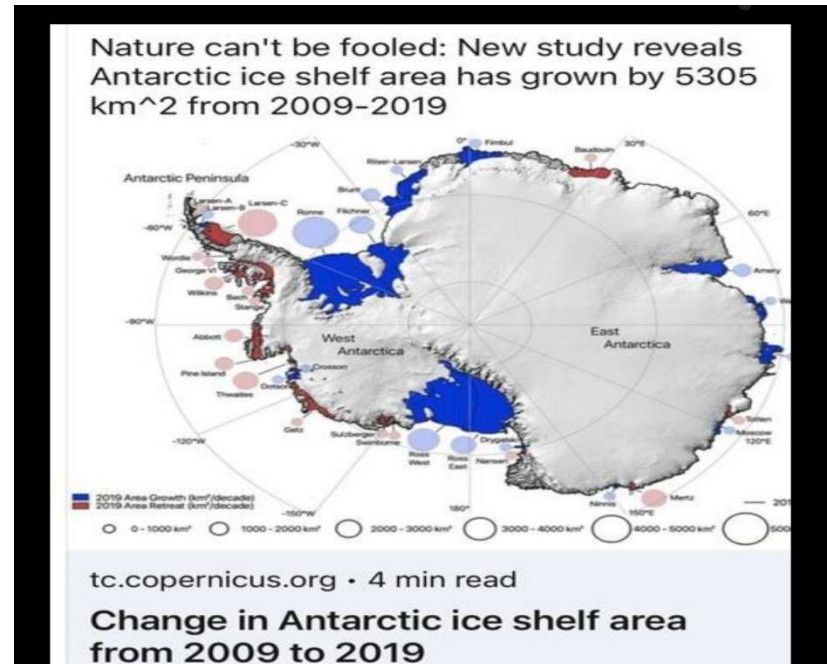
An example of misrepresenting information – recent changes to polar ice

- Climate activists claim the Greenland ice sheet is melting six times faster than it was 30 years ago, but 30 years ago, it was melting at a rate of very low to minimal melting.
- **When recent ice loss is compared to the full Greenland ice sheet, the loss is minimal.**
- **Some studies show Antarctica has been experiencing recent increased sea ice coverage.**

Recent Greenland Ice Sheet Melt vs Total Greenland Ice Size



Recent gains in Antarctic ice sheet



Reference book: Climate at a Glance page 27, 28

Source: The Ice Sheet Mass Balance NASA and the European Space Agency

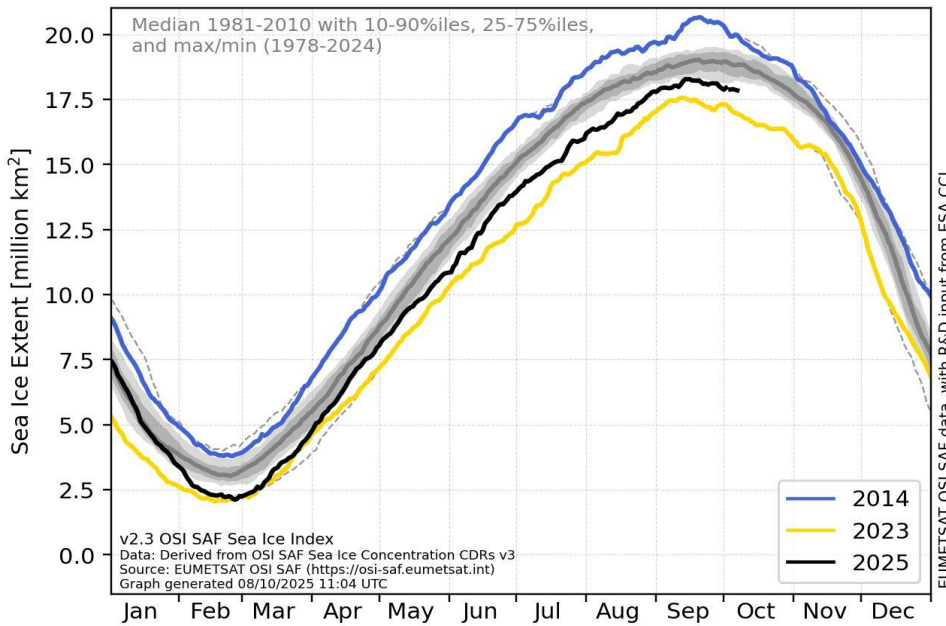
Reference Book: Cool It by Bjorn Lomborg page xiv Foreword

4) Global Warming is not caused by increased CO₂ – Sea Levels

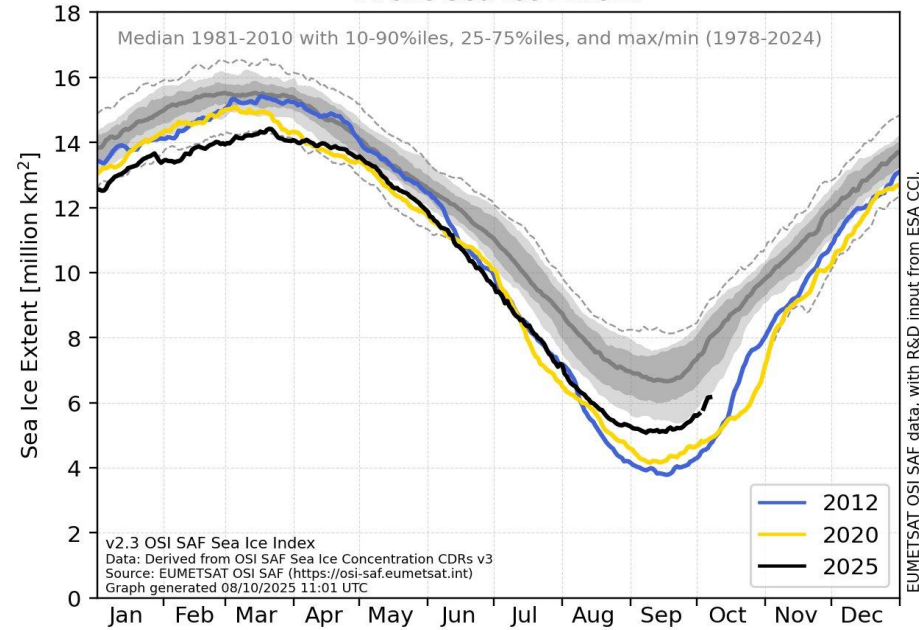
Polar Sea ice extent at both poles is now tracking close to their 1981–2010 averages

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..

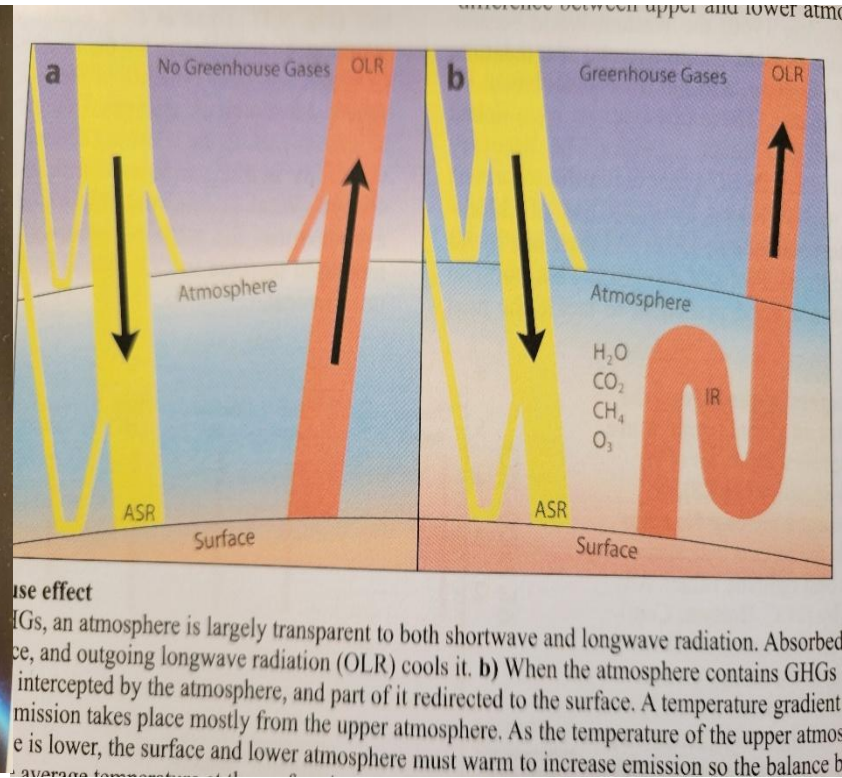
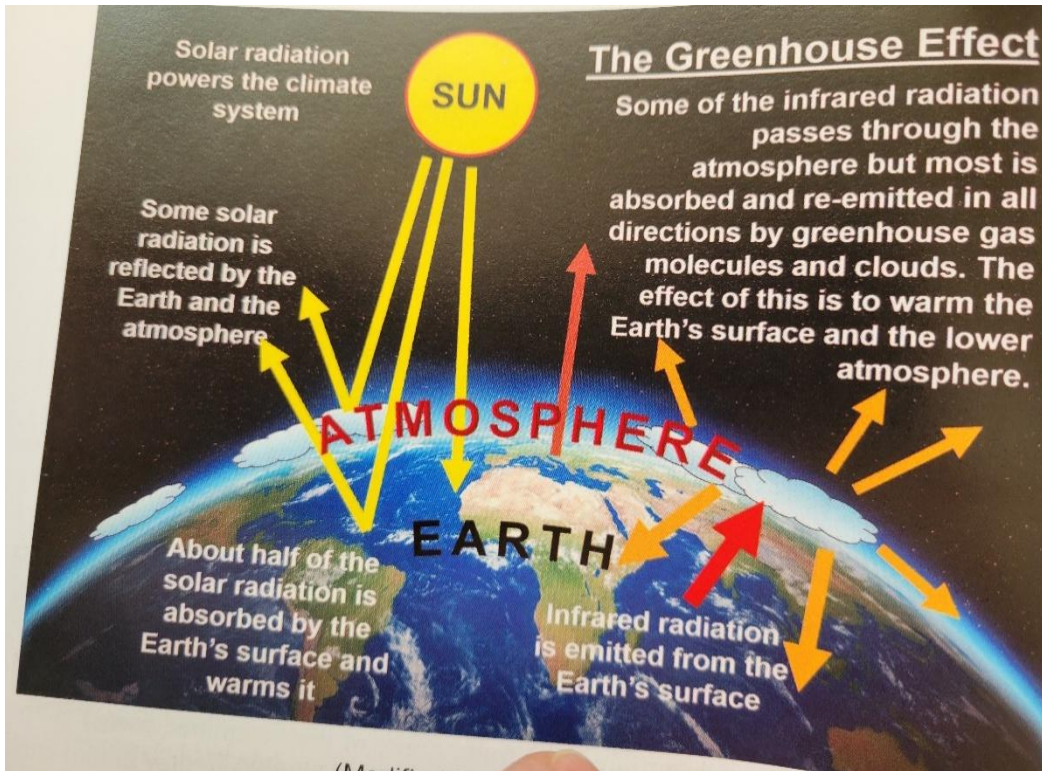
4) Global Warming is not caused by increased CO₂ - Science and CO₂

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:

4) Global Warming is not caused by increased CO₂ - Science and 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

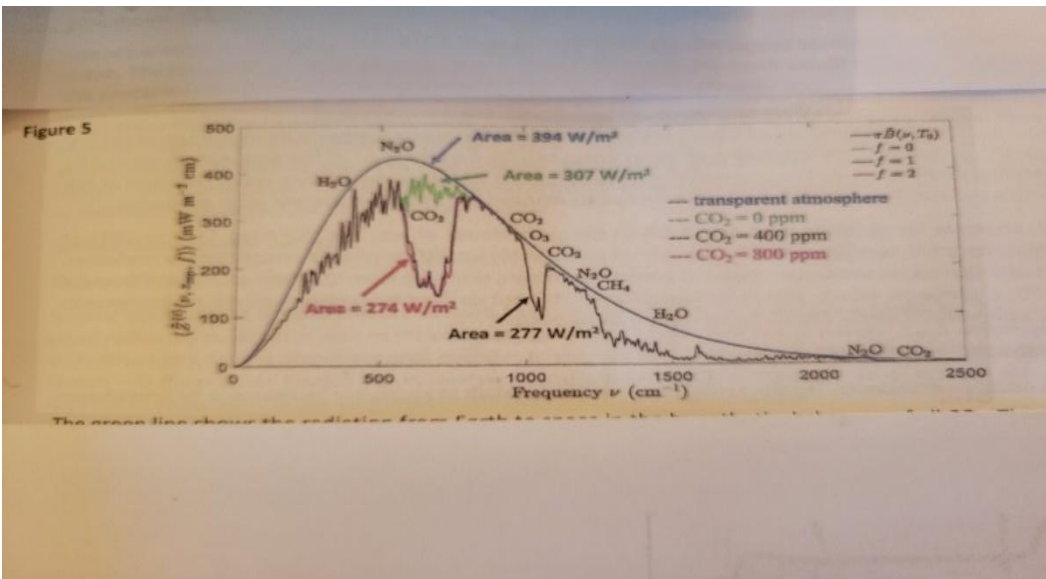
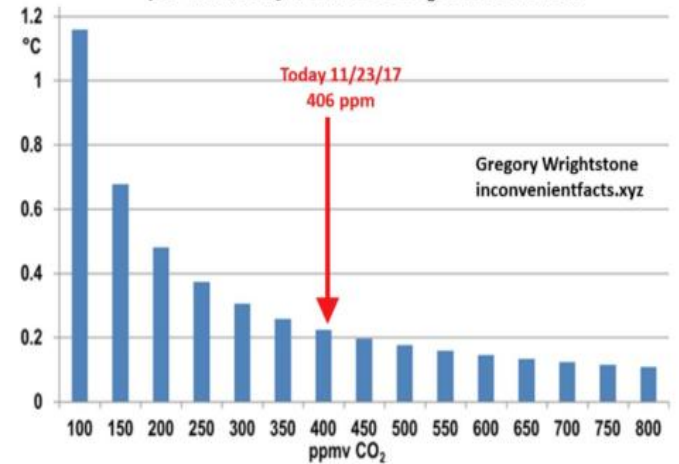


Figure I-3: Less global warming for each additional 50 parts-per-million-by-volume of CO₂ concentration



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

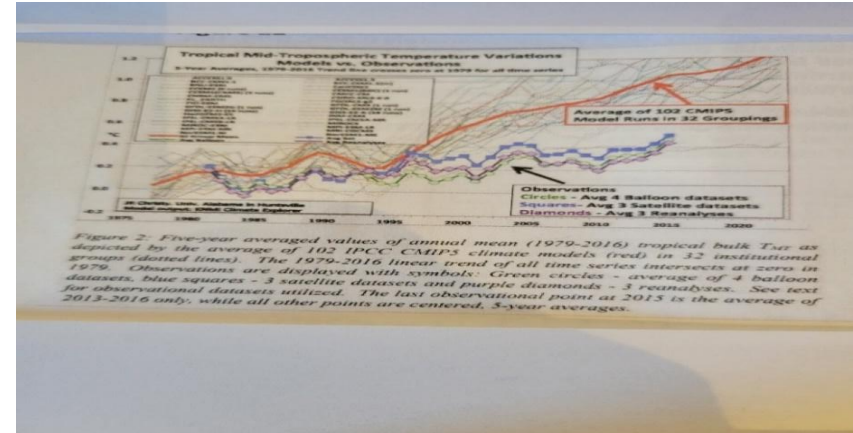
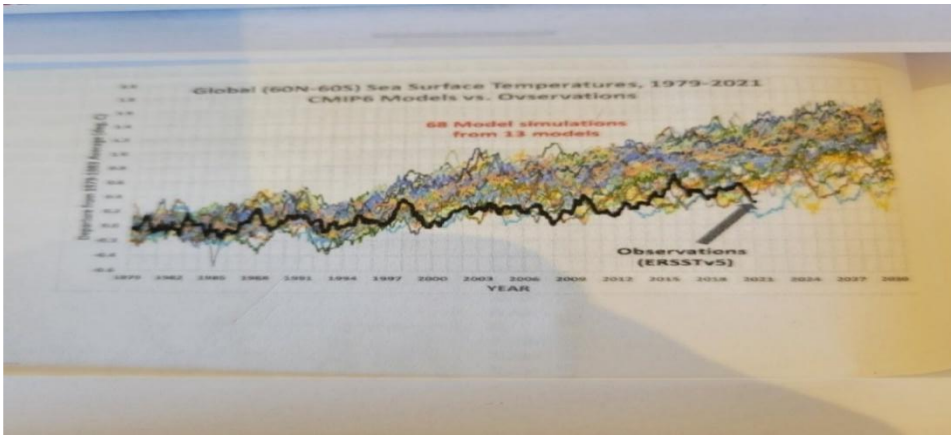
4) Global Warming is not caused by increased CO₂ - Science and CO₂

CO₂-driven climate models overestimate actual trend of climate change

Computer climate models don't match actual results

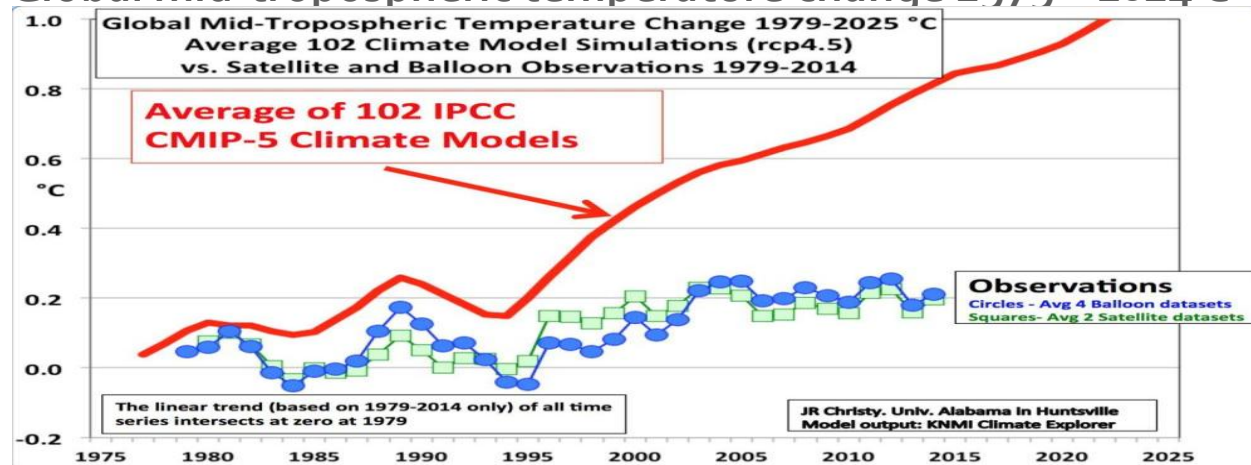
Ocean surface temperatures

Atmosphere temperatures



Reference: Climate All Is Well, All Will Be Well Jeremy Nieboer page 20017 Source: J.R. Christy, Univ. of Alabama; KNMI Climate Explorer [John Christy: Climate models for politics?...\"A bridge too far\" - YouTube](#)

Global mid-tropospheric temperature change 1979 – 2024 C



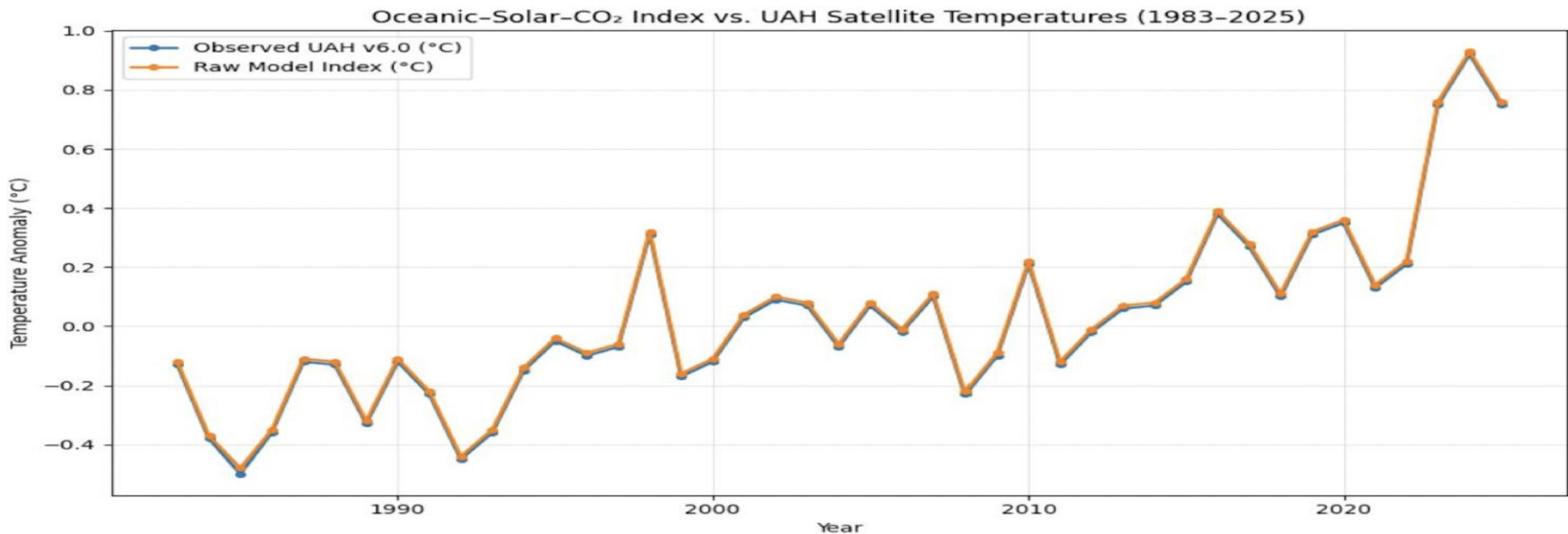
Reference: [John Christy: The Climate Real Deal | Science Matters \(rclutz.com\)](#) Computer Modelling [Willie Soon https://www.youtube.com/watch?v=b5oyv8I6I-g](#)

4) Global Warming is not caused by increased CO₂ - Science and 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

4) Global Warming is not caused by increased CO₂ - Science and 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.

4) Global Warming is not caused by increased CO₂ - Science and 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

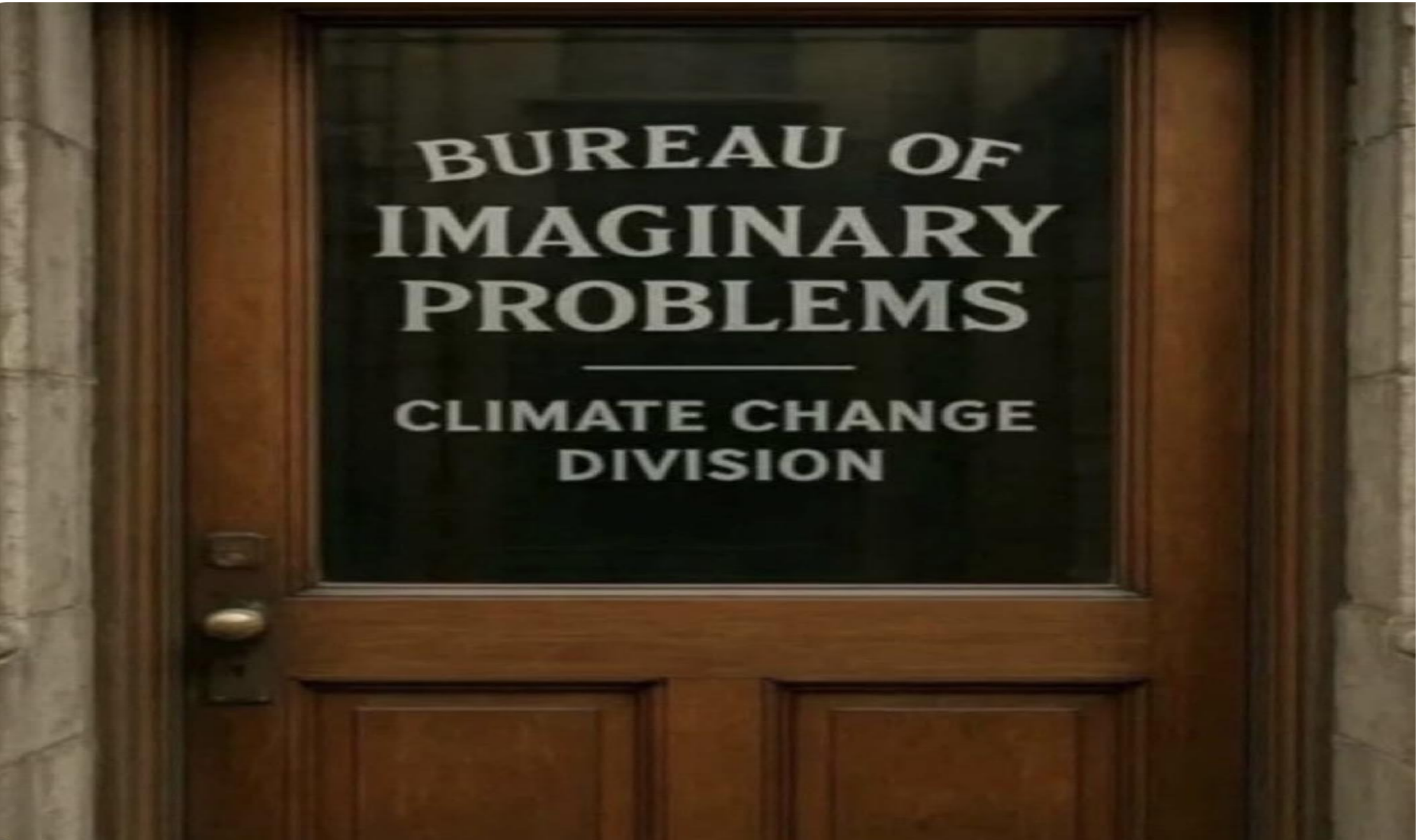
[The Sun, The Clouds, The Oceans In My Most Important Video Ever](#) Paul Burgess's successful modelling shows that since 1983, temperature can be replicated simply by looking at the new Oceanic Index and the amount of solar radiation, not the CO₂ and a small element of CO₂.

4) Global Warming is not caused by increased CO₂ - Science and CO₂

The CO₂ saturation effect shows that increasing levels of CO₂ cannot cause catastrophic global warming

- CO₂ radicalism rests on **one main assumption**: “Increases in atmospheric CO₂ will cause a linear and dangerous increase in global temperature.” The belief that more CO₂ emitted equals significantly more heat and higher temperatures is a cornerstone of this view. However, many scientists challenge this.
- At current CO₂ atmospheric levels of 420 ppm, **William Happer**, Professor Emeritus at Princeton University and **William van Wijngaarden**, professor in the Department of Physics and Astronomy at York University, raise serious doubts about this level of CO₂'s ability to absorb materially more heat from the Sun as seen on the Planck curve. This finding was validated through a controlled laboratory experiment in 2024. The measured infrared radiation of CO₂ in a test chamber underwent increasing CO₂ concentrations emulating realistic atmospheric conditions. **The study concluded that doubling CO₂ from 400 to 800 ppm “shows no measurable increase in infrared radiation absorption and can lead to just 0.5 °C warming increase at most”.**
- In 2020, German chemist **Michael Schnell's paper** “Experimental Verification of the CO₂ Greenhouse Effect” also confirmed that **the saturation effect of CO₂ results in minimal warming.**
- Dr **Franz-Karl Reinhardt** with the Swiss research facility EPF, demonstrated that a doubling of the current level of atmospheric CO₂ from 400ppm to 800ppm would produce only one-quarter of 1 degree Celsius.
- **Climate alarmists have never been able to explain why the Earth has never experienced runaway warming in the past when CO₂ levels were over 10 times more concentrated than today.**

5) We are not in a “Climate Crisis?”

A photograph of a dark wooden 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.

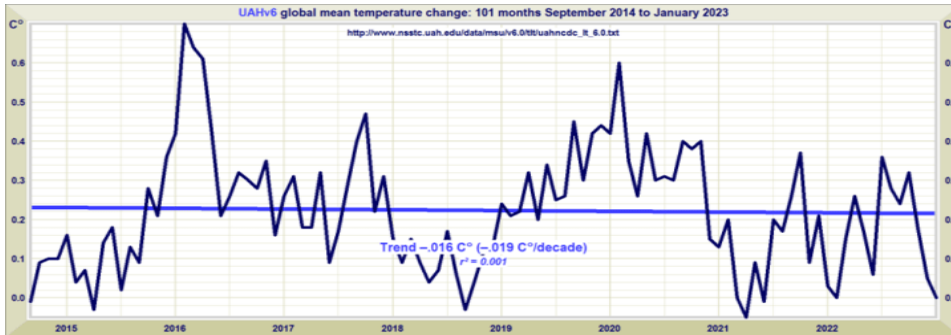
BUREAU OF
IMAGINARY
PROBLEMS
—
CLIMATE CHANGE
DIVISION

[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>

5) We are not in a "Climate Crisis"

Recent global warming has been modest to flat

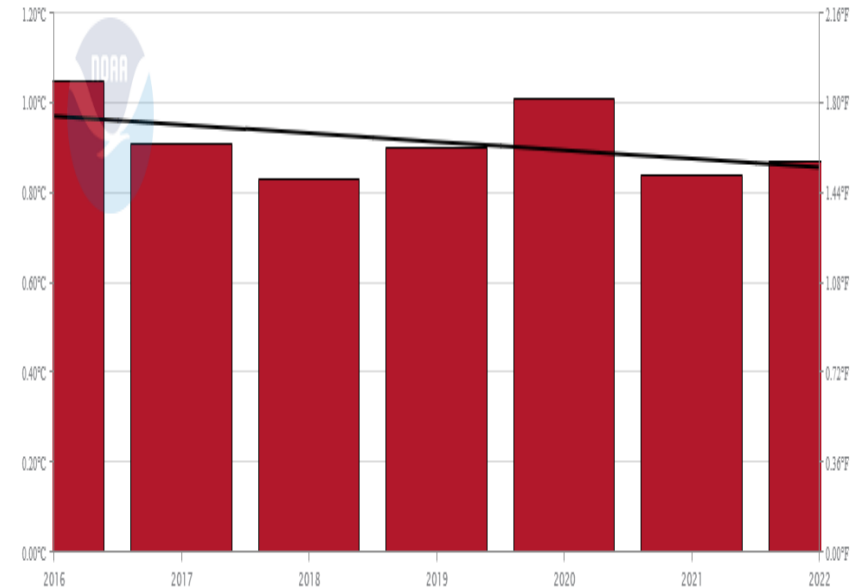
Global Mean Temperature Change 2014 to 2023



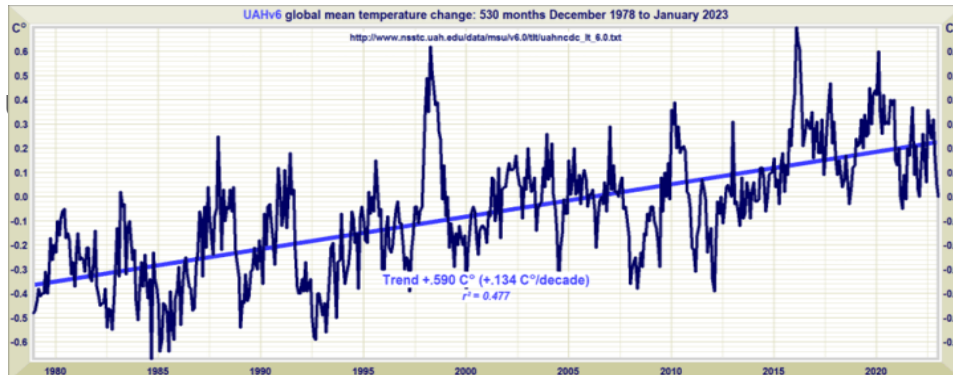
[NOAA](#) shows that since 2015 there has not been any global warming despite the emission of more than 450 billion tons of CO2 emissions

NOAA CHARTS REVEAL RESENT GLOBAL COOLING

Global Land and Ocean
August-July Temperature Anomalies



Global Mean Temperature Change 1978 to 2023



There has been a warming trend since the late 19th century of only about . 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

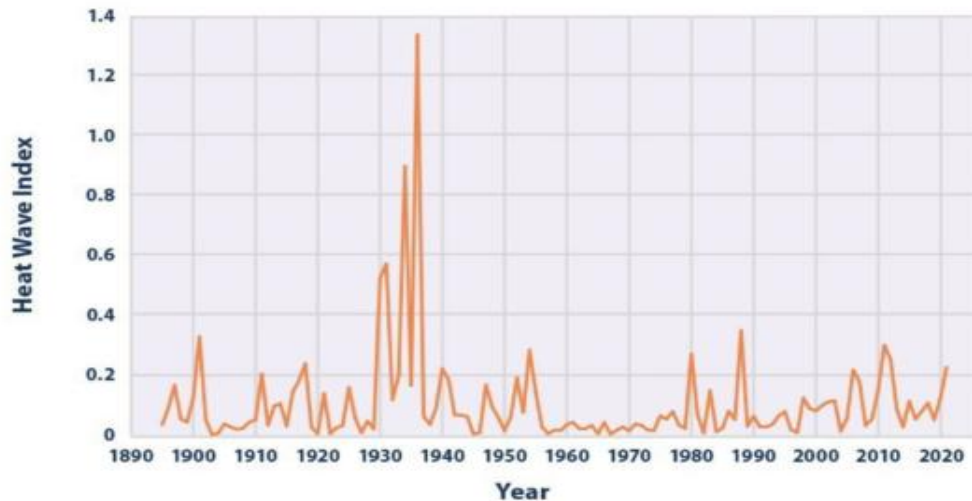
Reference: <https://wattsupwiththat.com/2023/02/03/the-new-pause-lengthens-again-101-months-and-counting/>

5) We are not in a "Climate Crisis"

The USA experienced higher temperatures in mid-1930s than today

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

Heat Wave Index for the USA between 1895 and 2020



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

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

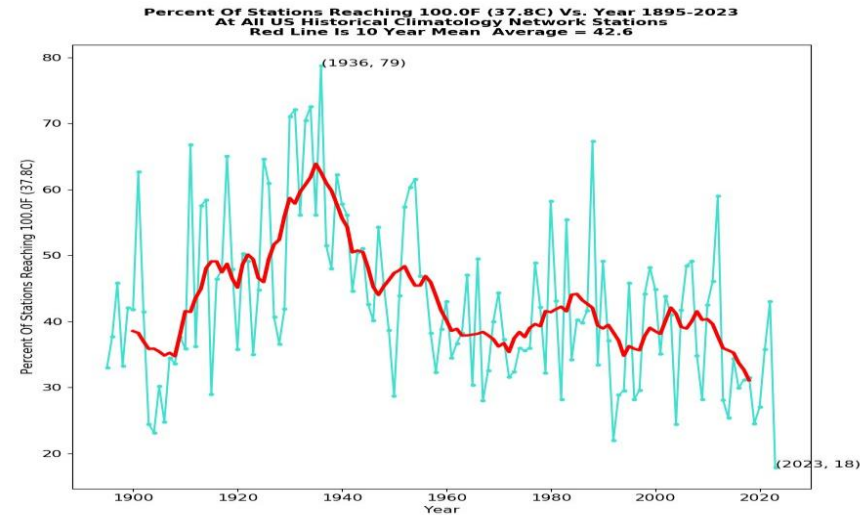
<https://youtu.be/pV7TZzD1N5Q>

<https://youtu.be/pV7TZzD1N5Q>

Climate and environment 2025 updates: US had the coldest January in decades

<https://abcnews.go.com/International/live-updates/climate-environment-updates/?id=115115959>

Heat Waves 1900 to 2020

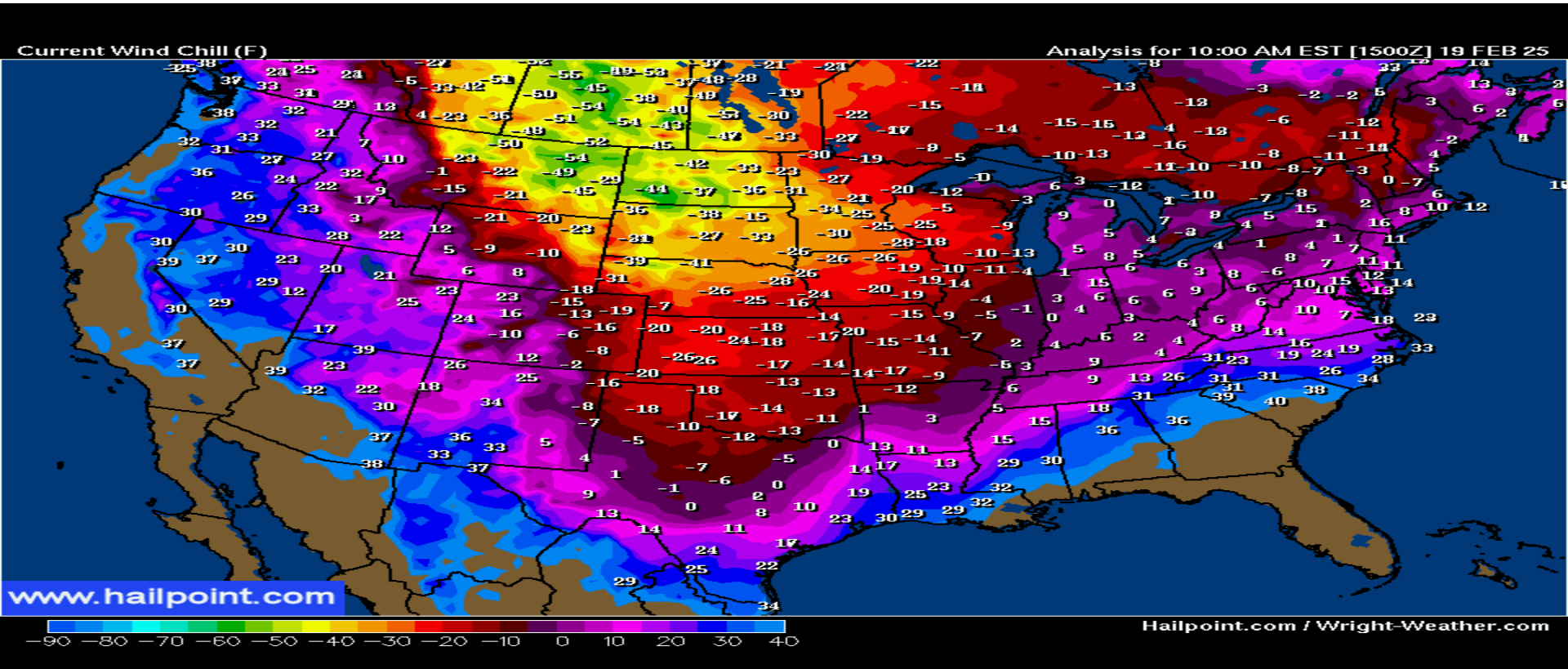


5) We are not in a "Climate Crisis"

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>

5) We are not in a climate crisis? Natural events impact the changing atmosphere

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](#)

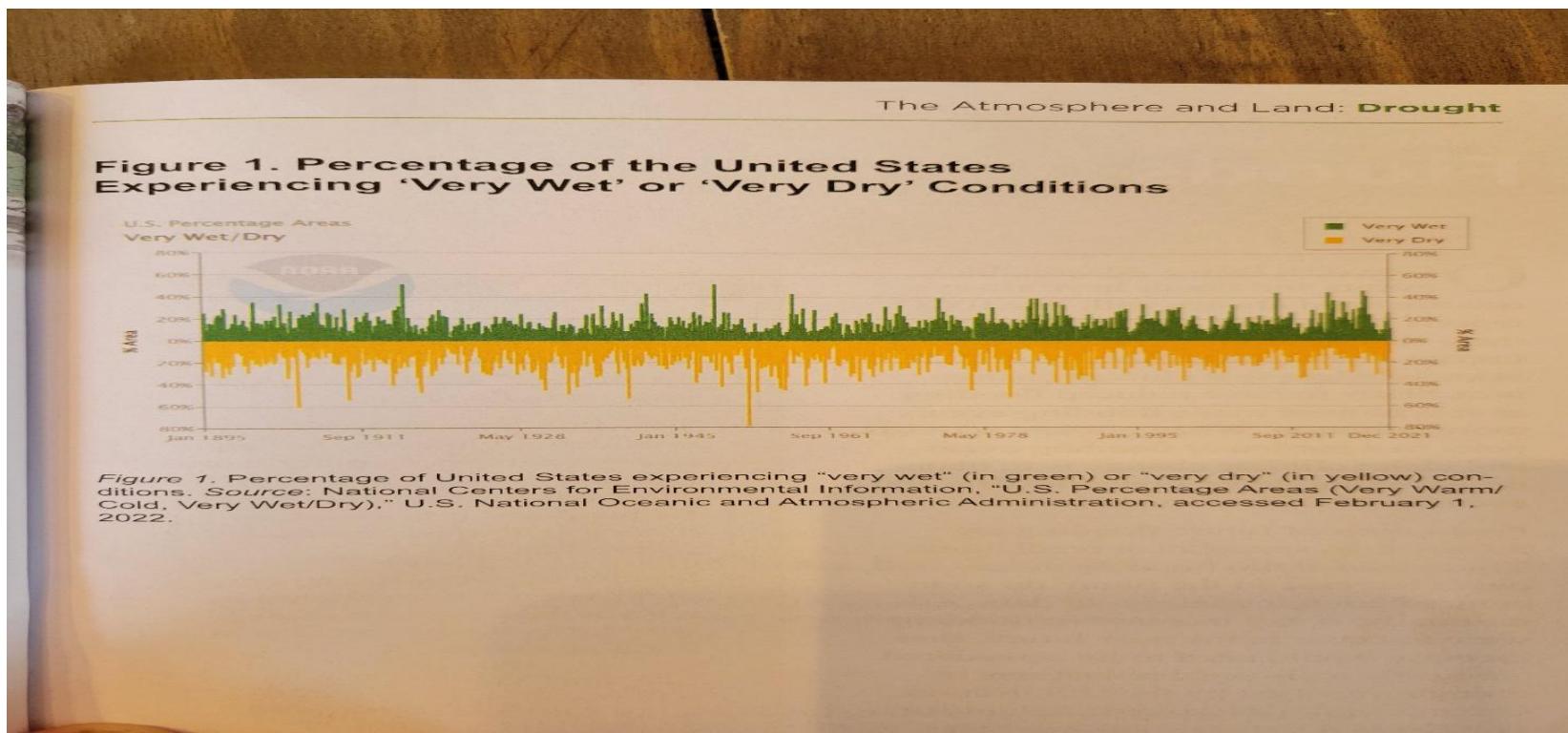
Reference [witnessed](#) 1816, the year without a summer

5) We are not in a "Climate Crisis"

The USA shows no changes in very wet or very dry conditions between 1895 and 2022

- Between 1985 and 2022, there has been no significant change in very wet or very dry conditions in the USA despite increasing CO₂ levels.

Drought and Flooding Conditions



Reference book: Climate at a Glance Page 9

Reference book: Unsettled Chapter 5

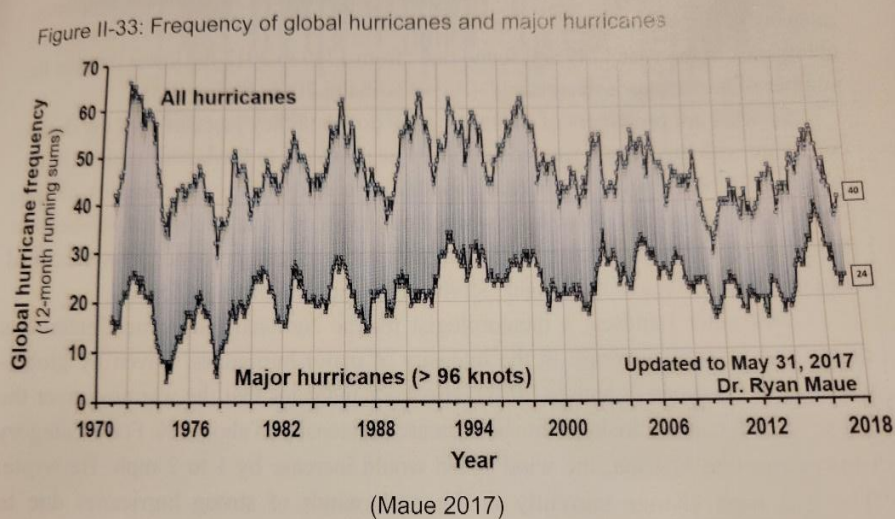
Source: National Centers for Environmental Information US National Oceanic and Atmospheric Administration, Feb 1, 2022

5) We are not in a "Climate Crisis"

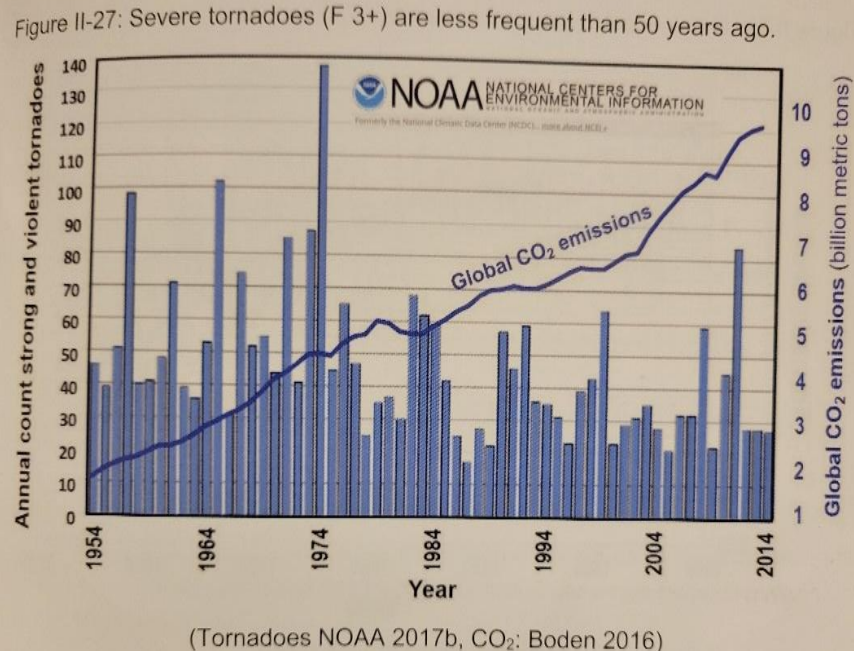
The number of hurricanes and tornadoes over recent times have not changed

- **Global frequency of major hurricanes has remained flat** over the last 50 years and **severe tornadoes have been less frequent** and fell over the last 250 years.
- There is, however, a correlation between intense El Niño ocean currents and hurricanes.

Hurricanes



Tornadoes



Reference book: Inconvenient Facts pages 91, 95

Reference Book: Unsettled Chapter 6

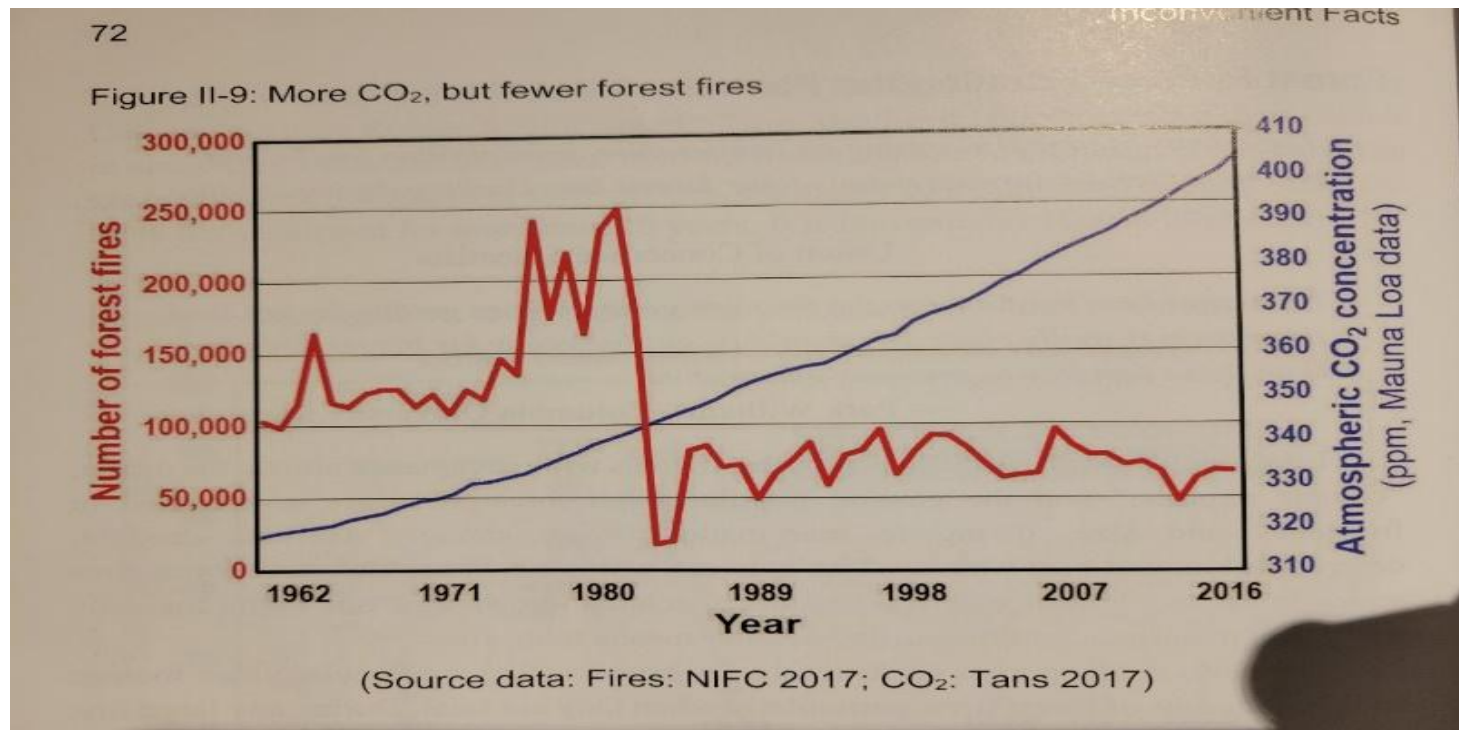
Source CO₂ Boden 2016, Tornadoes NOAA 2017 Hurricanes Maue 2017

5) We are not in a "Climate Crisis"

US forest fires between 1962 and 2016 have not changed with changing CO2 levels

- The number of **forest fires** across the Northern Hemisphere **has decreased** since 1980 in spite of increasing CO₂ levels.

Forest Fires Across the USA



https://open.substack.com/pub/rogerpielkejr/p/what-the-media-wont-tell-you-about-783?r=ukert&utm_campaign=post&utm_medium=emailNorthern

Reference book: Inconvenient Facts page 72

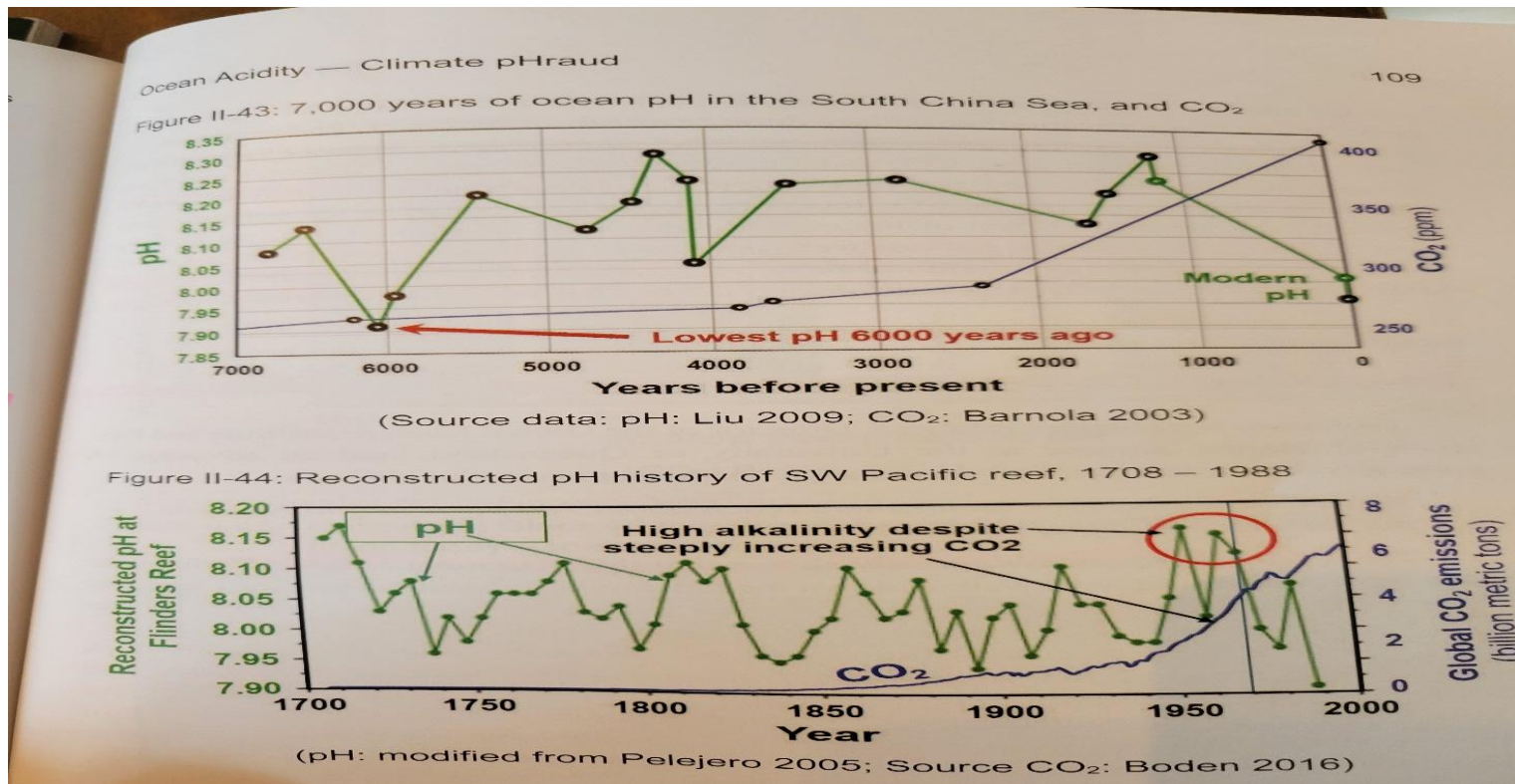
Source Fires NIFC 2017 CO₂ Tans 2017

5) We are not in a "Climate Crisis"

Ocean pH levels do not correlate with changing CO2 levels

- There is **no correlation** between CO₂ and oceanic pH or evidence that higher CO₂ levels will make the oceans acidic.
- Ocean acidity is now between 7.9 and 8.2. Neutral is pH 7. Vast amounts of acid would be required to acidify oceans.
- The oceans did not become acidic even with CO₂ at 15 times higher than present levels.

Changes in pH and CO₂ levels over the last 7000 years and the last 300 years



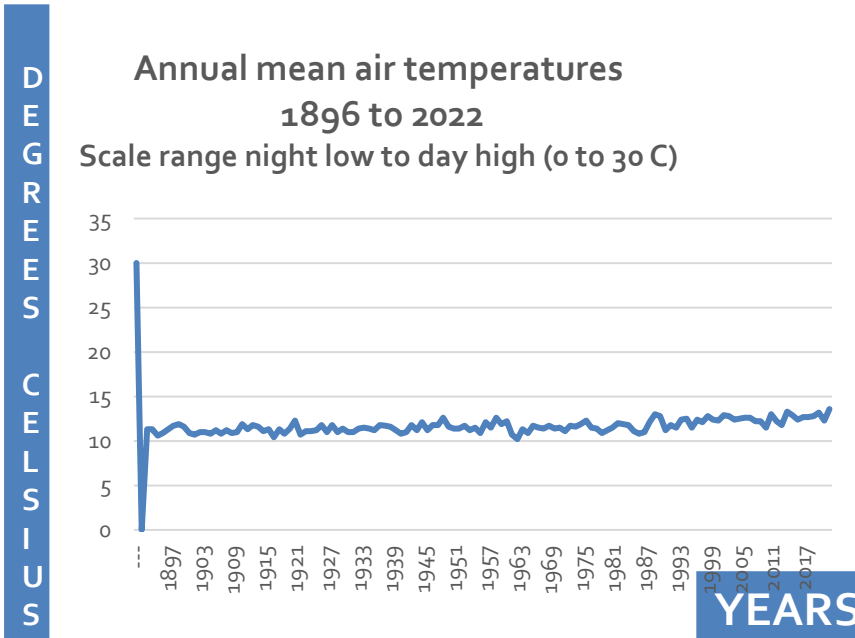
Reference book: Inconvenient Facts page 109

Source pH modified from Pelejero 2005; CO₂ Boden 2016

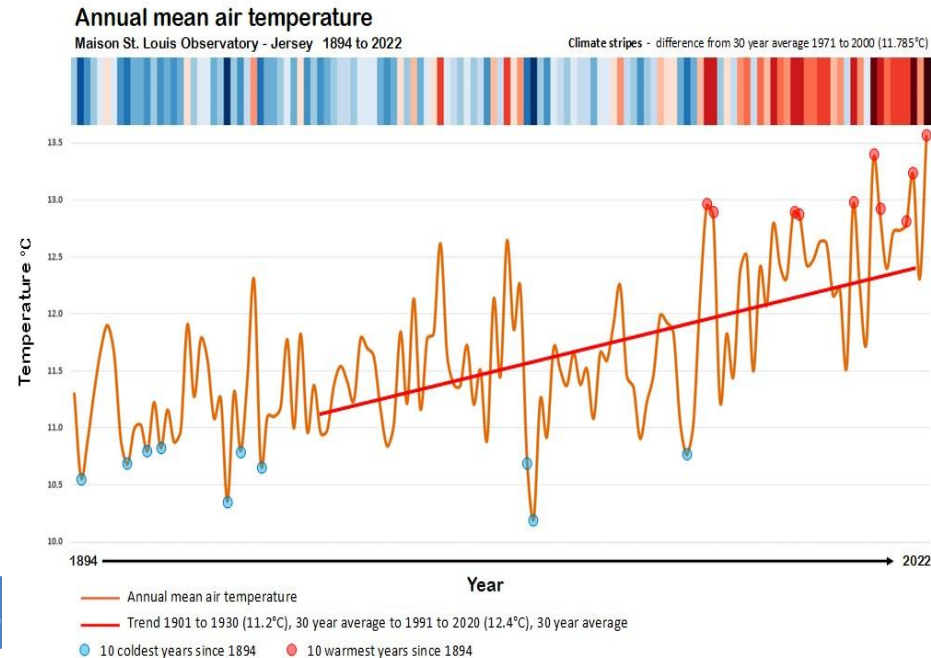
5) We are not in a climate crisis

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

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



Reference data from Jersey Gov. weather station



Reference graph from Jersey Met.

5) We are not in a "Climate Crisis"

The impact of media bias in reporting can be very misleading

- These maps have similar data from different years gathered from the Government weather stations. These German temperatures are similar, but the media message "signaling" is slanted.
- The Time magazine pictures also show similar "sensationalized" reporting, overdramatizing reality.



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 \(twitter.com\)](https://t.co/8wyP10fJOn)

5) We are not in 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>

5) We are not in 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](#)

5) We are not in a “Climate Crisis”

Scientists, institutions, activists and NGOs are contributing to climate misinformation

Conformance pressures are real in the media, governments, corporations, NGOs, schools and the public

A Self-Reinforcing Alignment of Perspectives and Interests.

- 1) **The Media:** With the age of the internet, headlines become more provocative to encourage clicks. The general lack of actual scientific knowledge, the drama of extreme weather events and pressure within the industry all work against a balanced coverage
- 2) **Politicians:** Politicians win elections by arousing passion and by motivating and persuading. The threat of climate catastrophe resonates with everyone.
- 3) **Scientific Institutions:** Concerning climate, institutions seem more concerned with making the science fit the narrative than ensuring the narrative fits the science. Assessment reports often summarize data in misleading ways. Scientific institutions have been willing to persuade rather than inform.
- 4) **Scientists:** For academics, pressure occurs to secure funding through grants, promotion, tenure and peer pressure.
- 5) **Activists and NGOs:** Organizations based on “climate emergency” rely on donations, claiming climate change is one of the most devastating problems that humanity has ever faced.
- 6) **The Public:** Concerns about climate change are as old as humanity. Public attitudes often involve unquestioning acceptance of wisdom handed down from on high and do not have the time or expertise to examine the science themselves.

5) We are not in a "Climate Crisis"

The Climate "Green" Industry is a \$4.7 Billion per Year Business (Gross receipts of top 25 NGOs in \$ Millions)

Groups lobbying for reduced CO2 emissions are **spending staggering amounts of money to push claims** that we must only use alternative energy sources like wind and solar.

On 17th October 2024, Oxfam published a [report](#) that **shockingly found that up to \$41 billion** in World Bank climate finance, nearly 40% of all climate funds disbursed by the Bank over the past seven years, is "**unaccounted for** between the time projects were approved and when closed." No one knows how the money was used.

The Climatism Industry Is A \$4.7 Billion Per Year Business

Rockefeller Brothers Fund	\$838	Sierra Club Foundation	\$123
Natural Resources Defense Council	\$548	League of Conservation Voters	\$71
World Resources Institute	\$306	Union of Concerned Scientists	\$64
ClimateWorks Foundation	\$350	Center for American Progress	\$40
Environmental Defense Fund	\$385	Center for Biological Diversity	\$34
National Audubon	\$361	Greenpeace	\$33
Windward Fund	\$224	Climate Reality Project	\$30
Climate Imperative Foundation	\$289	EDF Action Fund	\$29
The Energy Foundation	\$133	Public Citizen Foundation	\$25
Earthjustice	\$198	350.org	\$23
Sixteen Thirty Fund	\$192	Friends of the Earth	\$20
Sierra Club	\$184	Nextgen Climate Action	\$20
Rocky Mountain Institute	\$164	Total	\$4,684

Gross receipts of top 25 Climate NGOs, in \$Millions

Source: [Guidestar](#)

©Robert Bryce

Imagine the benefits if these funds were directed towards mitigating any negative impacts of climate change rather than trying to prevent natural climate change by reducing valuable CO2 emissions

https://www.realclearenergy.org/articles/2025/01/05/the_climate_agendas_march_through_the_institutions_can_it_be_stopped_1082512.htm

Book **Climate CO2 Hoax: How Bankers Hijacked the Environment Movement** Mark Gerard Keenan

5) We are not in 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?](#)

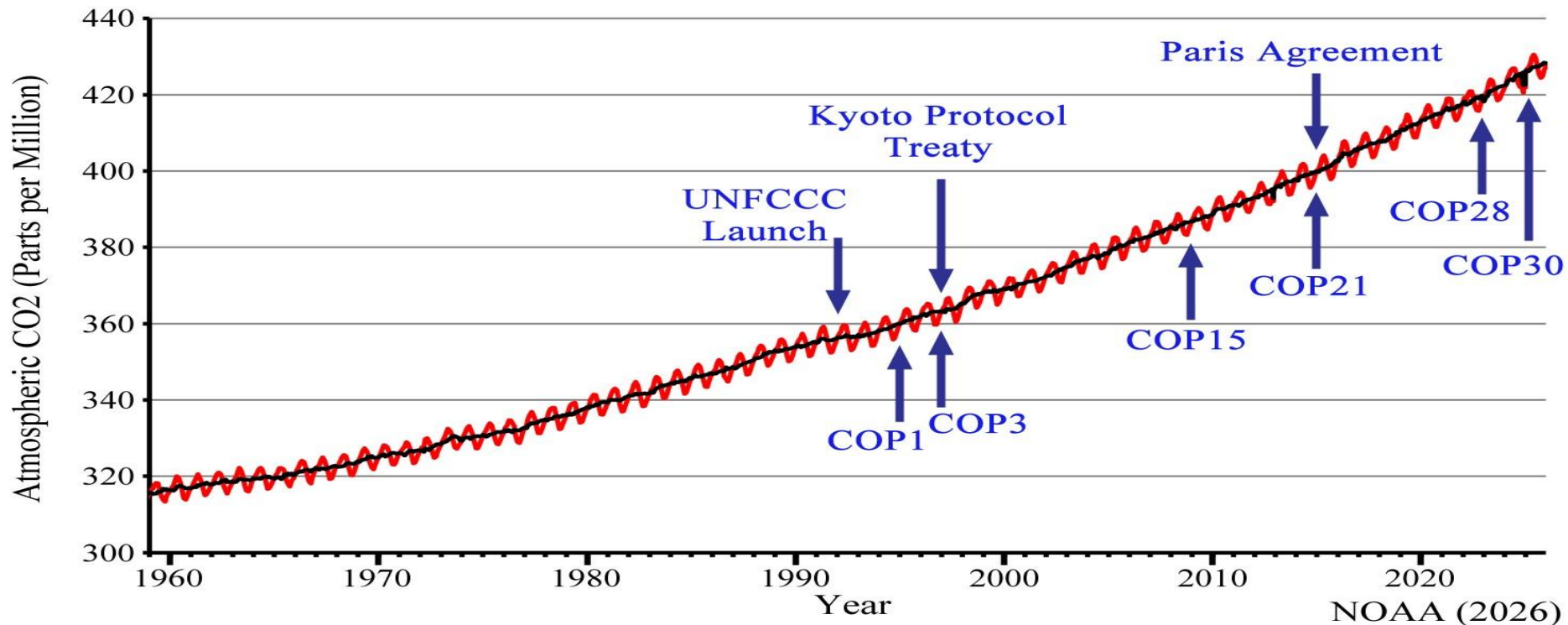
5) We are not in a "Climate Crisis"

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



5) We are not in a "Climate Crisis"

Climate Crisis Summary: Predictions have been proven to be false

Reality - We Are Not Experiencing or Facing a Climate Crisis

- Extreme weather events show no long-term trend attributed to human emissions of CO₂
- Hurricanes, tornadoes, heat waves, droughts, floods, forest fires and ocean acidification are not increasing. Polar bear population has been increasing and coral reefs are expanding.
- Since the melting of the North American, European and Asia ice caps, sea level rise has decreased dramatically and the rate of sea level rise has been stable over the past 6,000 years.
- Projections of future climate-based disasters are based on faulty climate models. There are no reliable climate models that can accurately replicate the past or future predictions

This is what catastrophic sea-level rise actually looks like



Real-world evidence refutes climate alarmist claims that extreme weather events are on the rise. FRASER INSTITUTE

DROUGHTS: NO increase in duration or magnitude going back to 1900 <small>Source: World Meteorological Organization</small>	WILDFIRES: NO overall increase, but a decline over recent decades <small>Source: Royal Society</small>
HURRICANES: NO long-term trends going back to 1980 <small>Source: World Meteorological Organization</small>	FLOODING: NO increase in flood risk, but a decline globally <small>Source: Journal of Hydrology</small>

6) The Science is not “Settled” – Science is never “Settled”

Reputable scientists disagree that mankind’s emissions of CO₂ is causing a climate crisis

*There is consensus that temperatures have been and are increasing (agreement on climate change) 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 Degrees from Caltech and Columbia Universities, a Nobel Prize winner in science

Dr. Judith Curry, Climatologist, former chair of Earth and Atmospheric Sciences, Georgia Institute of Tech

Dr. Ivar Giaever, Professor emeritus at the Rensselaer Polytechnical 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 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 signed the 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 and the basis of all life on Earth; v) Global

warming has not increased natural disasters; vi) Climate policy must respect scientific and economic

realities Many governments also moving away from or delaying carbon-neutral implementation.

7) Pursuing a carbon-neutral policy has negative implications

Reducing fossil fuel usage would negatively impact 3rd world economy Vijay Jayaraj

Access to fossil fuel energy will greatly help 3rd world economies and lifestyles.

In the developing world, climate activism movements, often bankrolled by foreign non-governmental organizations (NGOs), have stalled critical projects across continents. These efforts ignore the human toll of energy poverty: children studying by candlelight, hospitals without power, and economies stunted by unreliable grids.

First, the developing nations should investigate the funding and motives behind climate activism. Who bankrolls these NGOs? Are their campaigns aligned with national interests, or do they serve foreign agendas?

Greenpeace International, for example, has undertaken protests of power generated by fossil fuels and nuclear reactors and of coal and aluminum mining across India, while half of India suffers from unreliable electricity supplies.

Greenpeace leadership enjoys the comfort of an industrial economy but is asking poor people in the Third World to forgo energy abundance and rely instead on useless wind turbines and solar panels and accept generational poverty for the sake of addressing a fabricated climate emergency.

7) Pursuing a carbon-neutral policy has negative implications

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.

7) Pursuing a carbon-neutral policy has negative implications

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.

7) Pursuing a carbon-neutral policy has negative implications

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>

7) Pursuing a carbon-neutral policy has negative implications

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](#)

7) Pursuing a carbon-neutral policy has negative implications

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>

7) Pursuing a Carbon-Neutral policy has negative implications

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/>

7) Pursuing a Carbon-Neutral policy has negative implications

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

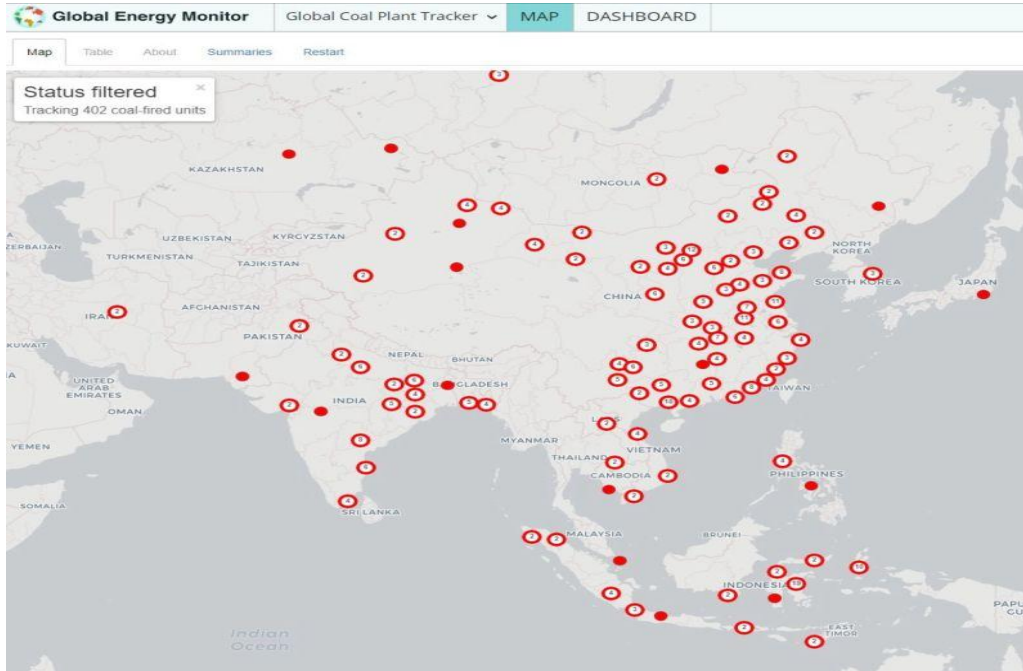
Repeal of Endangerment Finding Statement of Gregory Wrightstone

- 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.

7) Pursuing a carbon-neutral policy has negative implications

3rd world countries increases in CO₂ emissions make Jersey's 0.001% reductions irrelevant

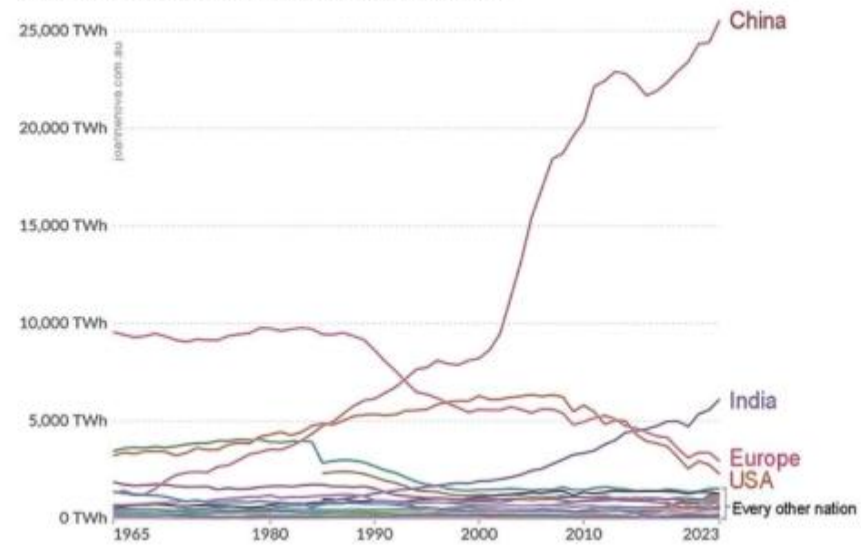
SE Asia Coal Power Plants Under Construction 2023



World Coal Consumption by Country

Coal consumption

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



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

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.

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

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

7) Pursuing a Carbon Neutral Policy has negative implications

The cost of going "Carbon Neutral is significant

Europe is waking up to the follies of 'green energy'

- JPMorgan Chase CEO [Jamie Dimon](#) says that Europe has gone from 90 percent of America's GDP to 65 percent.
- The Wall Street Journal's front-page story — "[Europe's Green Energy Rush Slashed Emissions – and Crippled the Economy](#)". "High-profile, net-zero projects are being postponed or scrapped," impairing Europe's ability to attract artificial intelligence and other vital economic drivers and job creators. The "green" energy shift is killing jobs and inflicting cost-of-living shocks.
- Germany now has the developed world's highest domestic electricity prices. Britain has its highest industrial rates, and Italy isn't far behind. Average prices for Europe's heavy industries are twice those in the U.S. Price volatility has risen as the share of renewable electricity generation has [increased to 54 percent](#).
- Although wind and sunlight are free, [harnessing them](#) requires major infrastructure investments, including battery storage for windless and sunless periods. These additional costs are typically hidden behind subsidies and carbon taxes, but the net result is [much higher electricity prices](#), blackouts, and economic disruption.

7) Pursuing a Carbon Neutral Policy has negative implications

The cost of going "Carbon Neutral is significant

Europe is waking up to the follies of 'green energy'

- Glass, steel, aluminum, petrochemical, and automobile manufacturing, along with other energy-intensive companies and industries, are all shrinking or being exported from Europe to the U.S. or Asia.
- Thousands of high-paying jobs are disappearing. Entire cities and regions are cascading into economic chaos. Families cannot afford proper food and heat. Elderly people often resort to [heating only one room](#) or one floor to reduce heating costs. Welfare and cold-weather support programs are strained to the limit.
- The End Fuel Poverty Coalition estimates that in Britain, living in cold homes caused nearly [5,000 excess deaths](#) during the 2022-2023 winter. People died because they were too cold and weak to survive illnesses, chronic diseases, or poor health.

8) If CO₂ is good and climate always changes, pursue optimum 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

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”

Conclusions: Warmer temperatures and higher CO₂ are good for mankind and nature

Temperature

- For most of the last 10,000 years, temperatures were higher than today.
- Mankind has historically prospered in up to 2°C+ higher average temperatures than today, but did poorly under colder temperatures.
- Significantly more deaths occurred under colder temperatures than warm temperatures.

CO₂

- The Earth has experienced over 10 times the present CO₂ levels and life has prospered.
- CO₂ is essential to terrestrial and marine life.
- The Earth is greening with higher CO₂, which is beneficial to humans, expansion of vegetation and forestation, plus crops harvested worldwide have increased dramatically.

Claims of Climate Disasters

- The polar bear population and coral reefs are expanding.
- Extreme weather events show no long-term trend attributed to human emissions of CO₂.
- Hurricanes, tornadoes, heat waves, forest fires and ocean acidification are not increasing.

Climate Models

- Until Paul Burgess’s recent model, projections of future climate-based disasters are based on faulty climate models that cannot accurately replicate the past or predict the future.⁷⁵

Global Warming and CO₂: “The Science”

Warmer temperatures and higher CO₂ are good for mankind and nature

Why is this important?

- The claim “Mankind’s emissions of CO₂ is causing a Climate Crisis” is in serious doubt. Basic science and historical records, including those in Jersey, provide important information supporting this doubt.
- The Jersey Carbon Neutral policy was never approved by the citizens of Jersey, was never costed, nor were any of the implications revealed at the time of Government policy approval.
- Funds (£21MM budgeted 2025 – 2028) directed towards going “Carbon Neutral” to reduce Jersey’s 0.001% global CO₂ emissions make no difference and can be better spent on areas like health, education and infrastructure.
- Children are being unduly traumatized by the media and the education system, including through teachers’ messaging.

Global Warming and CO₂: “The Science”

CO₂ and Climate Crisis Findings: Myth vs Reality

“The Science” doesn’t support a CO₂ Climate Crisis:

1) Warmer temperatures are good

2) More CO₂ is good

3) Global Warming is real, but is not mainly caused by increased CO₂ - it has only a very minor impact

4) We are not in a “Climate Crisis”

5) The Science is not “Settled”

Global Warming and CO₂: “The Science”

Warmer temperatures and higher CO₂ are good for mankind and nature

I recognise there are alternative views and perspectives.

Therefore, I call for an open, science-based debate on the question “Should Jersey continue to pursue a Carbon-Neutral Policy”, including the claim: Mankind’s CO₂ emissions are causing a Climate Crisis

Any Questions or comments?

I refer you to our website www.jerseyclimateforum.org where this and other material is available, including my **complete Presentation**

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

Global Warming and CO₂: “The Science”

60 Facts About CO₂ and Climate

1. CO₂ is not the primary greenhouse gas
2. The warming effect of CO₂ declines as its concentration increases
3. CO₂ is food for plants and is considered the gas of life
4. In the last four ice ages, the CO₂ level was dangerously low
5. The world has been in a 140-million-year trend of dangerously decreasing CO₂
6. The current geologic (Quaternary) period has the lowest CO₂ level in Earth's history
7. More CO₂ means more plant growth
8. More CO₂ helps to feed more people worldwide
9. More CO₂ means moister soil, a greener globe and smaller deserts
10. Global warming was flat for 18 years despite the rise in CO₂
11. CO₂ rose after the Second World War, but temperatures fell
12. The present warming began long before SUVs or coal-fired power plants
13. Melting glaciers and rising sea levels confirm that warming predates CO₂ increases
14. Temperatures have changed over 800,000 years and well before mankind
15. Interglacials usually last 10,000 to 15,000 years. Our present one is 11,000 years old

Global Warming and CO₂: “The Science”

60 Facts About CO₂ and Climate

16. Each of the four previous interglacial periods was significantly warmer than the one we are currently experiencing
17. The last interglacial, about 120,000 years ago, was 8 degrees warmer than today and the polar bears survived, plus the Greenland ice didn't melt
18. Temperatures have changed over the past 10,000 years and not due to mankind.
19. Today's total warming and rate of warming are similar to earlier periods
20. For 6,100 years out of the last 10,000 years, it was warmer than today
21. The current warming trend is neither unusual nor unprecedented
22. Earth's orbit and the tilt of the Earth's axis drive ice ages and interglacial periods
23. We are now living in one of the coldest periods in all of Earth's history
24. Earth has not had a geologic period this cold in 250 million years
25. The only thing constant about temperatures over 600 million years is that they have been constantly changing
26. For most of Earth's history, it was 10 degrees C warmer than today
27. IPCC's models overstate future warming up to three times too much
28. For human advancement, warmer is better than colder
29. Returning to pre-industrial Revolution temperatures will lead to famine and death

Global Warming and CO₂: “The Science”

60 Facts About CO₂ and Climate

30. Only 0.3% of the publications stated in their papers that the recent warming was mostly man-made
31. Science is not consensus, and consensus is not science
32. More CO₂ yields fewer droughts
33. Higher temperatures also show fewer droughts
34. Forest fires in the Northern Hemisphere are decreasing
35. More CO₂ provides more CO₂ fertilization and more soil moisture, faster tree growth and fewer forest fires
36. More CO₂ in the atmosphere means more food for everyone
37. The Earth is becoming greener and not turning into deserts, which are shrinking
38. Growing seasons are lengthening
39. More CO₂ and warmer weather mean more world food production
40. EPA: Heat waves are not becoming more frequent
41. Extreme heat events are declining
42. Cold kills far more people every year than heat
43. Warmer weather means many fewer temperature-related deaths
44. Warmer weather prevents millions of premature deaths every year

Global Warming and CO₂: “The Science”

60 Facts About CO₂ and Climate

45. More CO₂ and warmth mean shorter and less intense heat waves
46. The number of tornadoes is decreasing
47. The number of tornadoes in 2016 was the lowest on record
48. Death from tornadoes is falling
49. There has been no increase in the frequency of hurricanes in recent data
50. We have seen 250 years of declining hurricane frequency
51. No significant increase in hurricane intensity due to global warming
52. The polar bear population is growing
53. There are more polar bears today than there have been for 50 years
54. Polar bears thrive even where the sea ice is diminishing
55. There is no historical connection between CO₂ and the ocean's PH
56. The oceans did not become acidic, even at 15 times modern CO₂ levels
57. Sea level increases began more than 15,000 years ago
58. The recent sea level rise began 150 years before the increases in CO₂
59. Melting the northern polar ice cap in the Arctic Ocean will not raise the sea level
60. Most of Antarctica is cooling down and gaining ice mass

Global Warming and CO₂: Key Questions

Evaluation Results of Eleven Relevant Questions and Supporting Evidence

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 total atmospheric gases. 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: Key Questions

Evaluation Results of Eleven Relevant Questions and Supporting Evidence

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: Key Questions

Evaluation Results of Eleven Relevant Questions and Supporting Evidence

8) **Is sea level rise and the 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 the 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.

Please refer to the detailed presentation supporting these findings in:

<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

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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
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- **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

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- **Dr. Indur Goklany** Science Policy advisor US Dept of the Interior, BA, MSc and PhD Electrical Engineering, Climate Policy Review
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- **Ken Gregory** B.AppSc, professional engineer
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- **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
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- **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
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- **Dr. Euan Mearns** Geology Honorary Research Fellow at The University of Aberdeen
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- **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
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- **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
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- **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. Wielicki** 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

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](#).¹²⁴

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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