

EPA ADMINISTRATOR ZELDIN RESCINDS the OBAMA-ERA ENDANGERMENT FINDING



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Cruces Atmospheric Sciences Forum

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OUTLINE

INTRODUCTION: What is (or was) the Endangerment Finding?

RECISSION: At least two methodologies for possibly rescinding the Endangerment Finding

ONE: Scientific Grounds: From the CASF Web Site, the Obama-era EPA declaration of CO₂-fueled endangerment of the climate is fundamentally wrong:

https://casf.me/wp-content/uploads/2019/04/EPA_Endangerment_Finding_is_Wrong_20_Apr_2019.pdf

That post has 75 graphics. A small subset of the graphics is included here.

In August 2025, I submitted [this comment](#) to the EPA. <https://casf.me/comment-on-critical-review-of-impacts-of-greenhouse-gas-emissions-on-the-u-s-climate>

TWO: Legal Methodology: EPA Can't enforce the endangerment finding because Congress did not authorize the Executive Branch to do so. This route was chosen by EPA Secretary Zeldin:

<https://www.epa.gov/newsreleases/president-trump-and-administrator-zeldin-deliver-single-largest-deregulatory-action-us>

CLIMATE ALARMISTS and THEIR ALLIES IN THE MAIN-STREAM MEDIA are FURIOUS. EXAMPLES:

- “Rejecting science, Trump reverses conclusion that climate change is harming Americans,” LA Times
- <https://abcnews.com/US/trumps-environmental-protection-agency-plans-kill-landmark-endangerment/story?id=124187555>

RELATED TOPICS—and Important to CASF

- Blatantly Wrong Assertions, Cheating, Data Falsification, and Theft—revealed in research here
- Careful Study of Earth History reveals little truth in Climate Alarmist Stories
- Sea Level measurements and history reveal **no evidence that we control sea level** or that modern sea level change is unusual
- Good News: Modern societies, using inexpensive fossil fuels, successfully provide for their newborn.
- Increasing <CO₂> makes plants (our food supplies) more efficient:

INTRODUCTION: What is, or was, the Endangerment Finding?

Summary below is from Stanford University's Woods Institute for the Environment:

<https://woods.stanford.edu/news/epa-endangerment-finding-explained-5-facts-about-science-and-health-risks>

The U.S. Environmental Protection Agency (EPA) concluded in 2009 that ***carbon dioxide, methane, and other greenhouse gases threaten public health and welfare, underpinning rules for cars, power plants, and industry.***

In Brief

- The Environmental Protection Agency's "endangerment finding" provided a legal basis for regulating greenhouse gases under the Clean Air Act.
- Stanford research shows scientific evidence for greenhouse gases' damaging effects on people's health, coastal flooding, and other areas has grown stronger over time.

"Research by Stanford environmental scientist Chris Field and colleagues shows evidence for climate change's damaging impacts – such as food insecurity, mass migration, and health problems – has only grown since the finding was established."

"The endangerment finding is the foundation for regulation of greenhouse gases at the federal level," Field said. "It is not the government's only tool for tackling climate change, but it is key to a balanced program with both carrots and sticks."

Comments:

From the previous page, *“It is not the government’s only tool for tackling climate change...”* implies that Government can and should impose our will to control the climate.

Stanford University/Woods Institute...Goes right along with the below notions of the Climate Alarmists, viz:

“Climate never changed before I became of age, therefore...”

“Climate when I came of age was perfect. All climate change after I came of age is harmful to the world.”

The Government of the USA has a duty to keep the climate from changing, sea level from rising....

The Government of the USA has a duty to lead the world to keep global climate from changing.

“Everyone knows that <**our, meaning USA’s**> emissions of CO2 are the direct cause of Global Warming.”

Therefore, we as learned people have the duty to prevent emissions of CO2 into the atmosphere....

“Carbon is the Enemy” (***this, from a carbon-based life form!***)

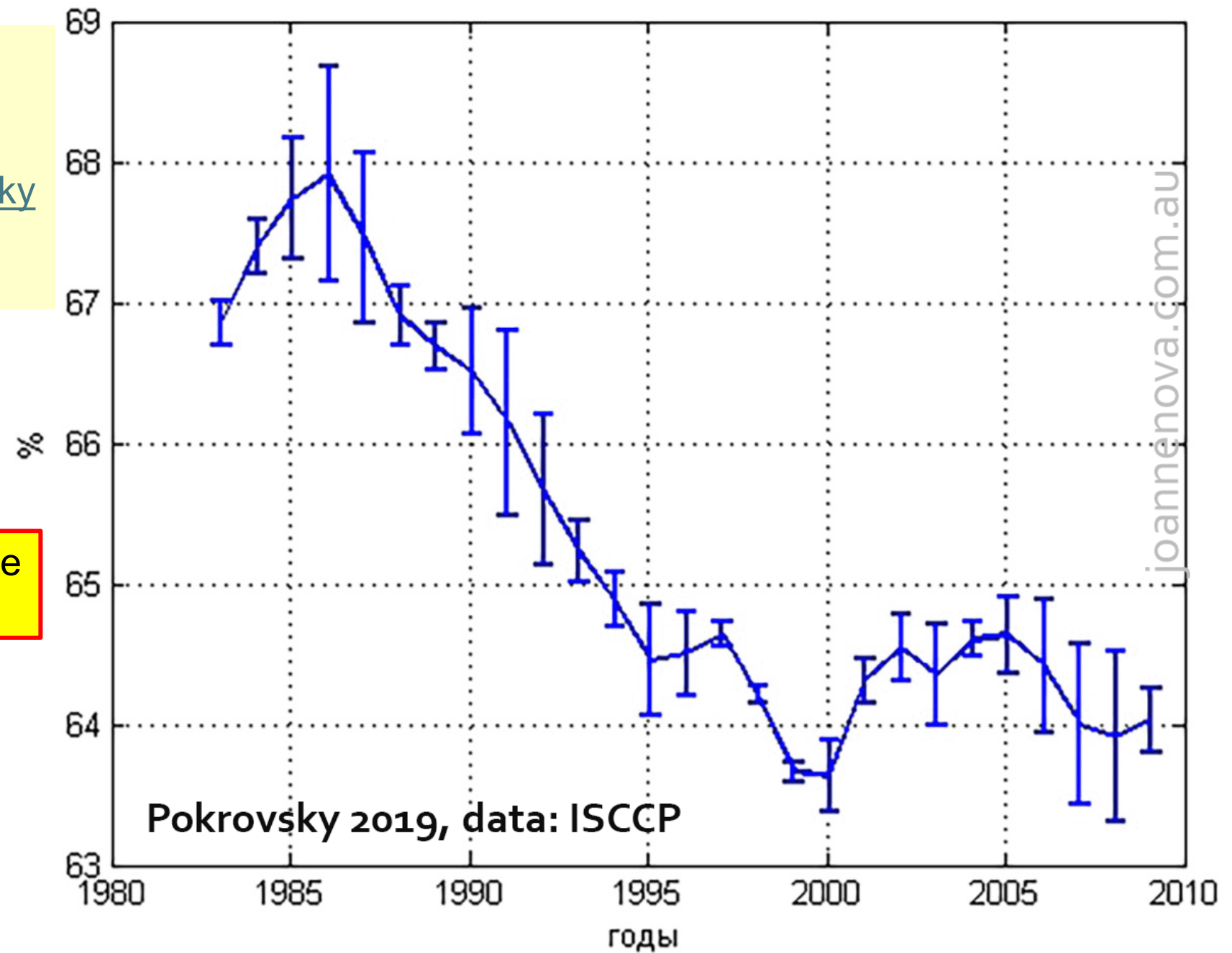
I seriously doubt our ability to control the climate. There are data by Pokrovsky showing that the post-1976 warming was accompanied by reduced global cloud cover, next slide.

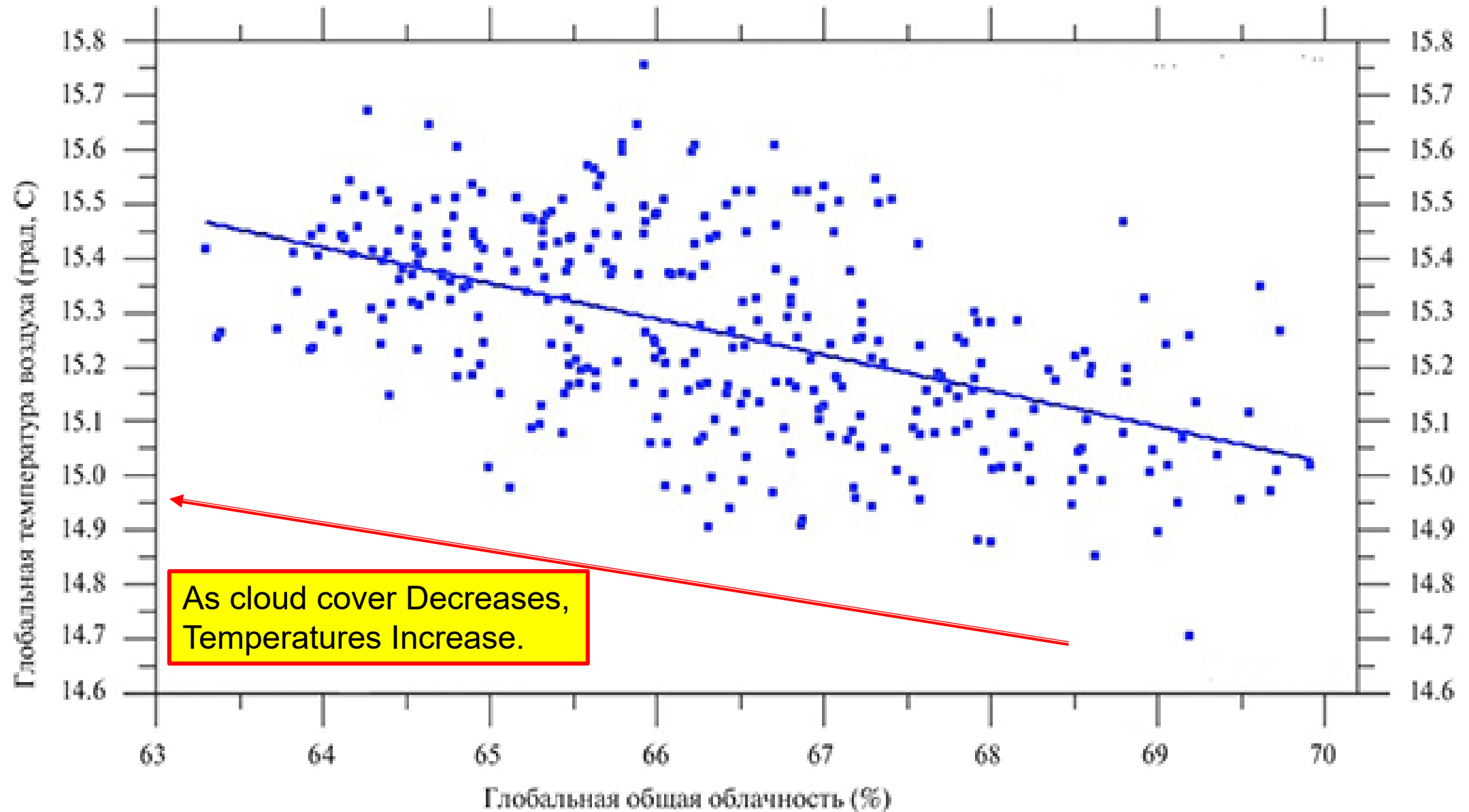
The next slide after that shows that temperatures track Total Solar Irradiance, TSI.

Percentage of Global Cloud cover

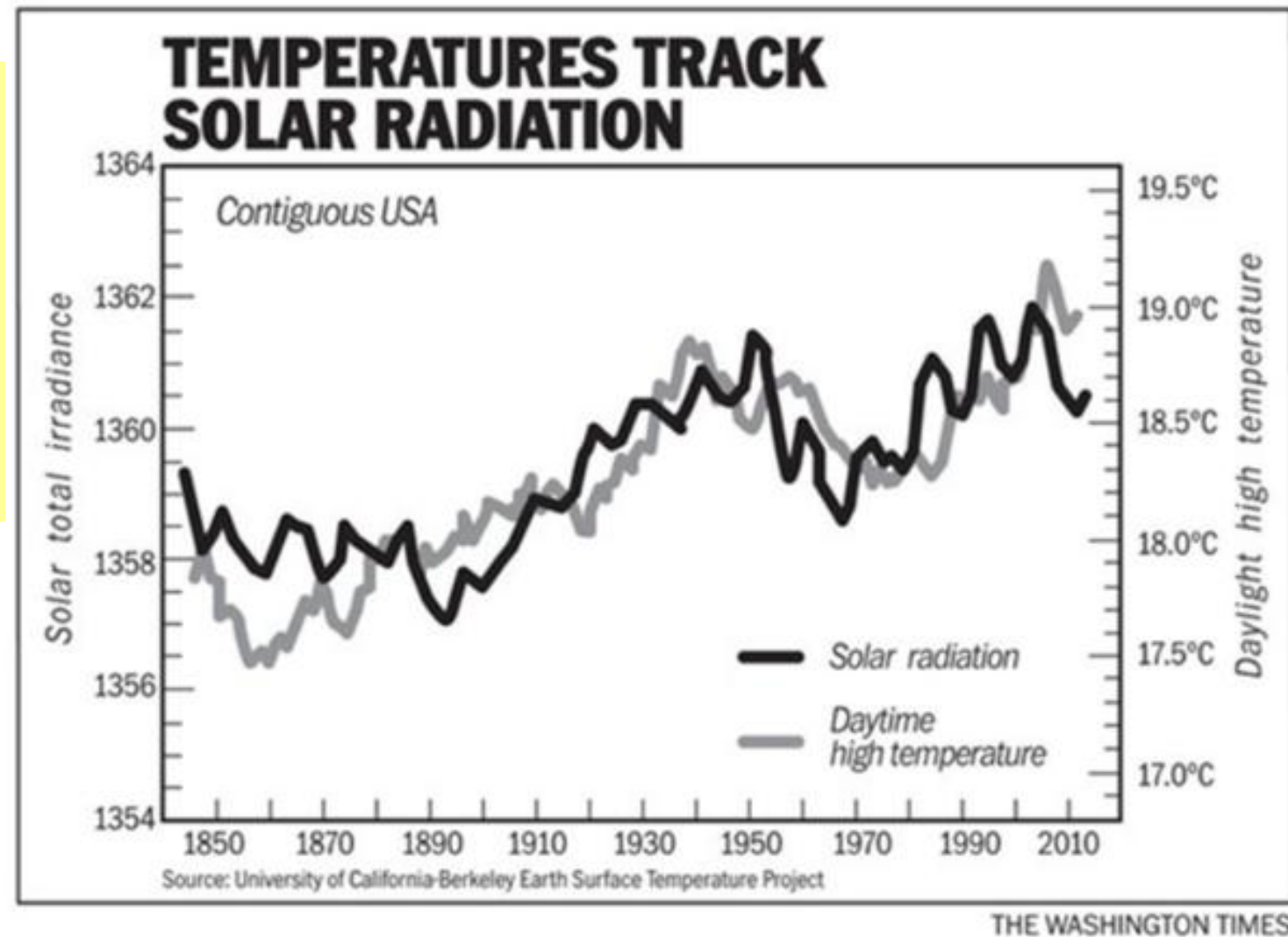
<https://joannenova.com.au/s3/s3.amazonaws.com/jo.nova/graph/atmosphere/clouds/fig-1-Pokrovsky-2019.gif>

There was about a 5% decrease
In cloud cover after 1985...





The time series plot to the right comes from our post, <https://casf.me/comment-on-critical-review-of-impacts-of-greenhouse-gas-emissions-on-the-u-s-climate/>



Plot of Total Solar Irradiance, TSI, from about 1845 to about 2013, in Black. The daytime high temperature for the same period, from the Berkeley Earth Surface Temperature Project is plotted in Gray. The message clearly is, "Temperature changes are caused by changes in Total Solar Irradiance, TSI." Note especially the post-WW2 period, after 1950, when TSI fell, and temperatures also fell. This is when CO₂ emissions TRIPLED.

Brief sidebar: Below is one result on Internet Search on <Carbon is the Enemy>

[Resources](#) [Investor Relations](#) [Journalists](#) [Agencies](#) [Client Login](#) [Send a Release](#)

<https://www.prnewswire.com/news-releases/black-carbon-coalition-to-fight-enemy-of-the-planet-301667237.html>

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Black Carbon Coalition to Fight Enemy of the Planet

I guess these folks have never heard of the annual summer deposits of dust on Arctic ice surfaces used to mark the years, going back hundreds of thousands of years.

NEWS PROVIDED BY
Black Carbon Coalition →
Nov 03, 2022, 08:44 ET



Don Owens, engineer and attorney, launches multi-pronged effort to combat climate emergency

LOS ANGELES, Nov. 3, 2022 /PRNewswire/ – **Black carbon is the direct cause of glacier melt in the Arctic and ice sheets all over the planet.** Black carbon saturates ice sheets that are responsible for providing fresh drinking water to millions of people. This glacier and ice sheet melt is the direct cause of changing weather patterns and intensified storms we are all witnessing more and more each year and is a harbinger for sea level rise, which will inflict even more disastrous results.

Comments on Stanford University:

From their [web page](#), it seems as if Stanford University and their Woods Institute for the Environment are Climate Alarmists.

The evidence, from these quotes:

“scientific evidence has increased “dramatically” for each climate change impact noted in the endangerment finding”

increased disease rates

coastal flooding

No mention of ground water pumping on coastal plains.

ocean acidification

PLEASE! Oceans have always been alkaline!

effects on national security: ‘climate change... 20% increased risk of armed conflict over 20th century’

Increasing “health threats from greenhouse gases”

“A world with massive amounts of climate change is going to have millions of climate migrants...”

Increased “threats from violence...”

From a previous page:

effects on national security: ‘climate change... 20% increased risk of armed conflict over 20th century’

This notion flies in the face of history’s knowledge the colder temperatures in the Little Ice Age were the harbingers of international strife and wars.

“Sustained temperature shifts during the “Little Ice Age” led to wars, mass migration, and instability. What does this mean for our current moment?”



<https://insight.kellogg.northwestern.edu/article/the-cold-cold-history-of-political-conflict>



At least Two Recission Methodologies

- Scientific
- Legal

Scientific Grounds for Recission:

The Obama-era EPA declaration of the CO₂-fueled endangerment of the climate is fundamentally wrong.

Details are on the web site:

https://casf.me/wpcontent/uploads/2019/04/EPA_Endangerment_Finding_is_Wrong_20_Apr_2019.pdf

A few graphics are below

ATTRIBUTION ANALYSIS using the Three Lines of Evidence published in the Code of Federal Regulations

ATTRIBUTION IN THE ENDANGERMENT FINDING THREE LINES OF EVIDENCE

1. Physical or Theoretical Understanding of Climate
2. Temperature Records
3. Computer Models



74 C.F.R. at 66518

“74 C.F.R. at 66518”

Means Volume 74 of the Federal Register,
page 66518



Federal Register

**Tuesday,
December 15, 2009**

Part V

Environmental Protection Agency

40 CFR Chapter I

**Endangerment and Cause or Contribute
Findings for Greenhouse Gases Under
Section 202(a) of the Clean Air Act; Final
Rule**

Here is page 66518,

the Attribution

Paragraph is highlighted.

Larger font is on the next page.

Hadley Center record, slowed. However, the NOAA and NASA trends do not show the same marked slowdown for the 1999–2008 period. Year-to-year fluctuations in natural weather and climate patterns can produce a period that does not follow the long-term trend. Thus, each year may not necessarily be warmer than every year before it, though the long-term warming trend continues.²¹

The scientific evidence is compelling that elevated concentrations of heat-trapping greenhouse gases are the root cause of recently observed climate change. The IPCC conclusion from 2007 has been re-confirmed by the June 2009 USGCRP assessment that most of the observed increase in global average temperatures since the mid-20th century is very likely²² due to the observed increase in anthropogenic greenhouse gas concentrations. Climate model simulations suggest natural forcing alone (e.g., changes in solar irradiance) cannot explain the observed warming.

The attribution of observed climate change to anthropogenic activities is based on multiple lines of evidence. The first line of evidence arises from our basic physical understanding of the effects of changing concentrations of greenhouse gases, natural factors, and other human impacts on the climate system. The second line of evidence arises from indirect, historical estimates of past climate changes that suggest that the changes in global surface temperature over the last several decades are unusual.²³ The third line of evidence arises from the use of computer-based climate models to simulate the likely patterns of response of the climate system to different forcing mechanisms (both natural and anthropogenic).

The claim that natural internal variability or known natural external

forcings can explain most (more than half) of the observed global warming of the past 50 years is inconsistent with the vast majority of the scientific literature, which has been synthesized in several assessment reports. Based on analyses of widespread temperature increases throughout the climate system and changes in other climate variables, the IPCC has reached the following conclusions about external climate forcing: “It is extremely unlikely (<5 percent) that the global pattern of warming during the past half century can be explained without external forcing, and very unlikely that it is due to known natural external causes alone” (Hegerl *et al.*, 2007). With respect to internal variability, the IPCC reports the following: “The simultaneous increase in energy content of all the major components of the climate system as well as the magnitude and pattern of warming within and across the different components supports the conclusion that the cause of the [20th century] warming is extremely unlikely (<5 percent) to be the result of internal processes” (Hegerl *et al.*, 2007). As noted in the TSD, the observed warming can only be reproduced with models that contain both natural and anthropogenic forcings, and the warming of the past half century has taken place at a time when known natural forcing factors alone (solar activity and volcanoes) would likely have produced cooling, not warming.

United States temperatures also warmed during the 20th and into the 21st century; temperatures are now approximately 0.7 °C (1.3 °F) warmer than at the start of the 20th century, with an increased rate of warming over the past 30 years. Both the IPCC and CCSP reports attributed recent North American warming to elevated greenhouse gas concentrations. The CCSP (2008g) report finds that for North America, “more than half of this warming [for the period 1951–2006] is likely the result of human-caused greenhouse gas forcing of climate change.”

Observations show that changes are occurring in the amount, intensity, frequency, and type of precipitation.

increased rate. It is very likely that the response to anthropogenic forcing contributed to sea level rise during the latter half of the 20th century. It is not clear whether the increasing rate of sea level rise is a reflection of short-term variability or an increase in the longer-term trend. Nearly all of the Atlantic Ocean shows sea level rise during the last 50 years with the rate of rise reaching a maximum (over 2 mm per year) in a band along the U.S. east coast running east-northeast.

Satellite data since 1979 show that annual average Arctic sea ice extent has shrunk by 4.1 percent per decade. The size and speed of recent Arctic summer sea ice loss is highly anomalous relative to the previous few thousands of years.

Widespread changes in extreme temperatures have been observed in the last 50 years across all world regions including the United States. Cold days, cold nights, and frost have become less frequent, while hot days, hot nights, and heat waves have become more frequent.

Observational evidence from all continents and most oceans shows that many natural systems are being affected by regional climate changes, particularly temperature increases. However, directly attributing specific regional changes in climate to emissions of greenhouse gases from human activities is difficult, especially for precipitation.

Ocean carbon dioxide uptake has lowered the average ocean pH (increased the acidity) level by approximately 0.1 since 1750. Consequences for marine ecosystems may include reduced calcification by shell-forming organisms, and in the longer term, the dissolution of carbonate sediments.

Observations show that climate change is currently affecting U.S. physical and biological systems in significant ways. The consistency of these observed changes in physical and biological systems and the observed significant warming likely cannot be explained entirely due to natural variability or other confounding non-climate factors.

b. Key Projections Based Primarily on Future Scenarios of the Six Greenhouse Gases

²¹ Karl T. *et al.*, (2009).

²² The IPCC Fourth Assessment Report uses specific terminology to convey likelihood and confidence. Likelihood refers to a probability that the statement is correct or that something will occur. “Virtually certain” conveys greater than 99 percent probability of occurrence; “very likely” 90 to 99 percent; “likely” 66 to 90 percent. IPCC assigns confidence levels as to the correctness of a statement. “Very high confidence” conveys at least

“The **attribution** of observed climate change to anthropogenic activities **is based on multiple lines of evidence**.

The **first line of evidence arises from our basic physical understanding** of the effects of changing concentrations of greenhouse gases, natural factors, and other human impacts on **the climate system**.

The **second line of evidence** arises from indirect, historical estimates of past climate changes that suggest that the **changes in global surface temperature over the last several decades are unusual**.

The **third line of evidence arises from the use of computer-based climate models** to simulate the likely patterns of response of the climate system to different forcing mechanisms (both natural and anthropogenic).” <Paragraphing, **bolding**, added>

The Obama-Era EPA cited their
“basic physical understanding of the climate”

Next two slides show this is a false claim.

<https://thsresearch.files.wordpress.com/2017/05/chap3-published-in-elsevier.pdf>

What happens to Global Surface Temperature when the Soviet Union collapses and closes hundreds of research Stations in Siberia?

Answer: Station Numbers fall and Global Temperatures increase!

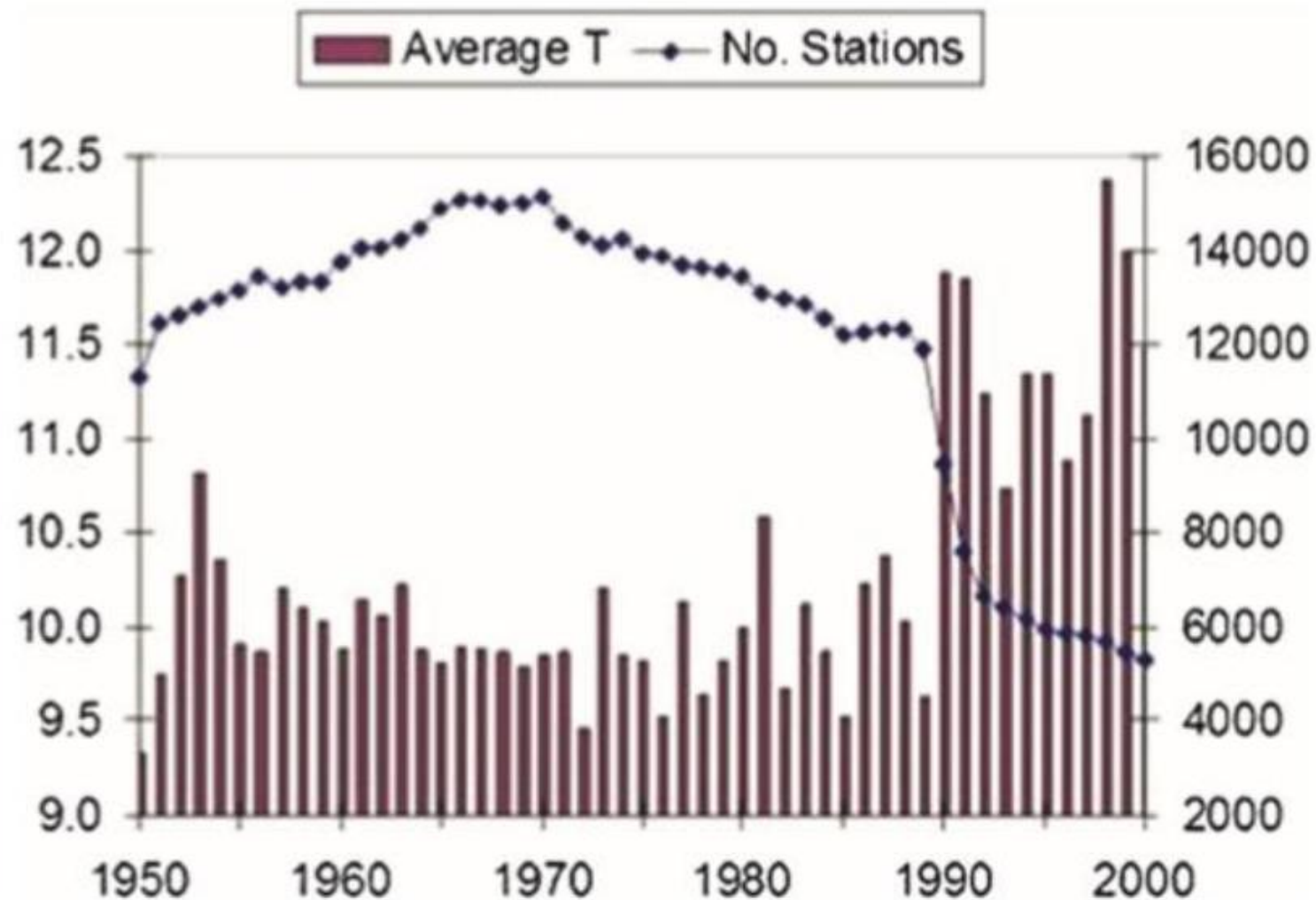
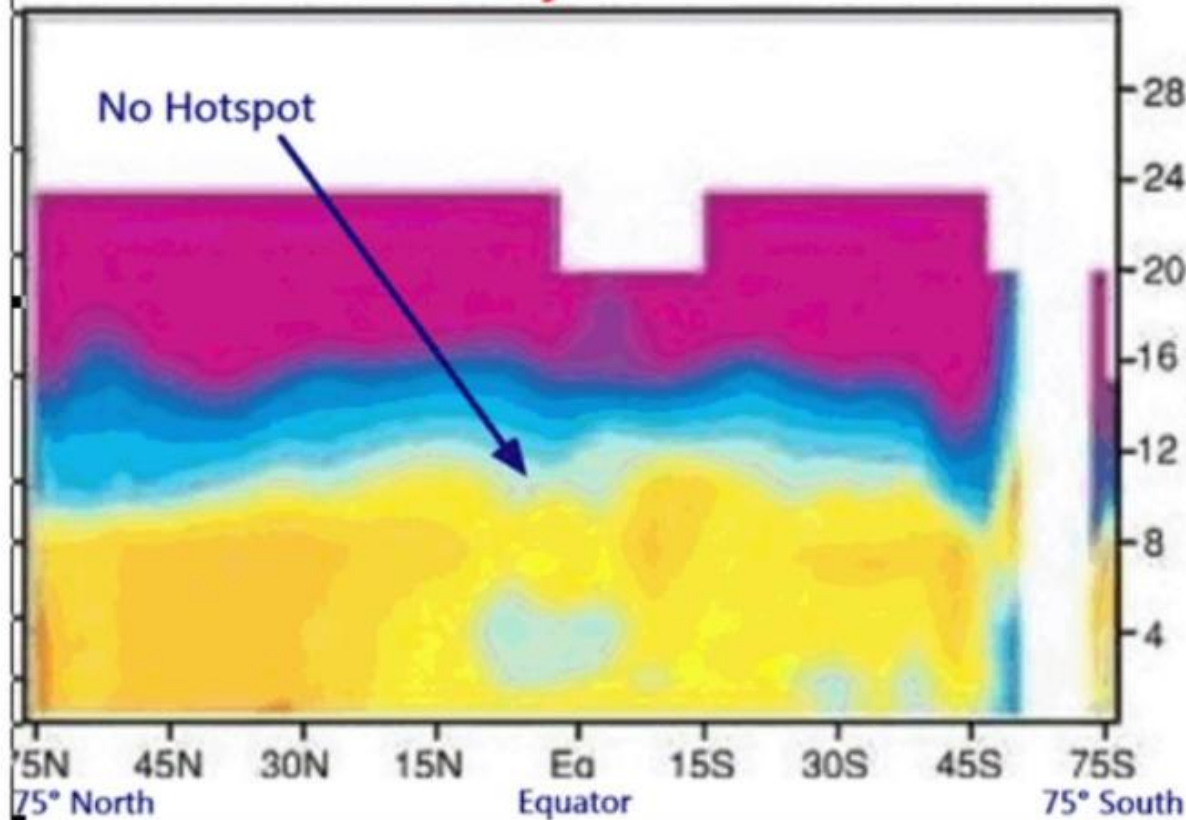


FIGURE 5 Plot of the number of total station ID's in each year since 1950 and the average temperatures of the stations in the given year.

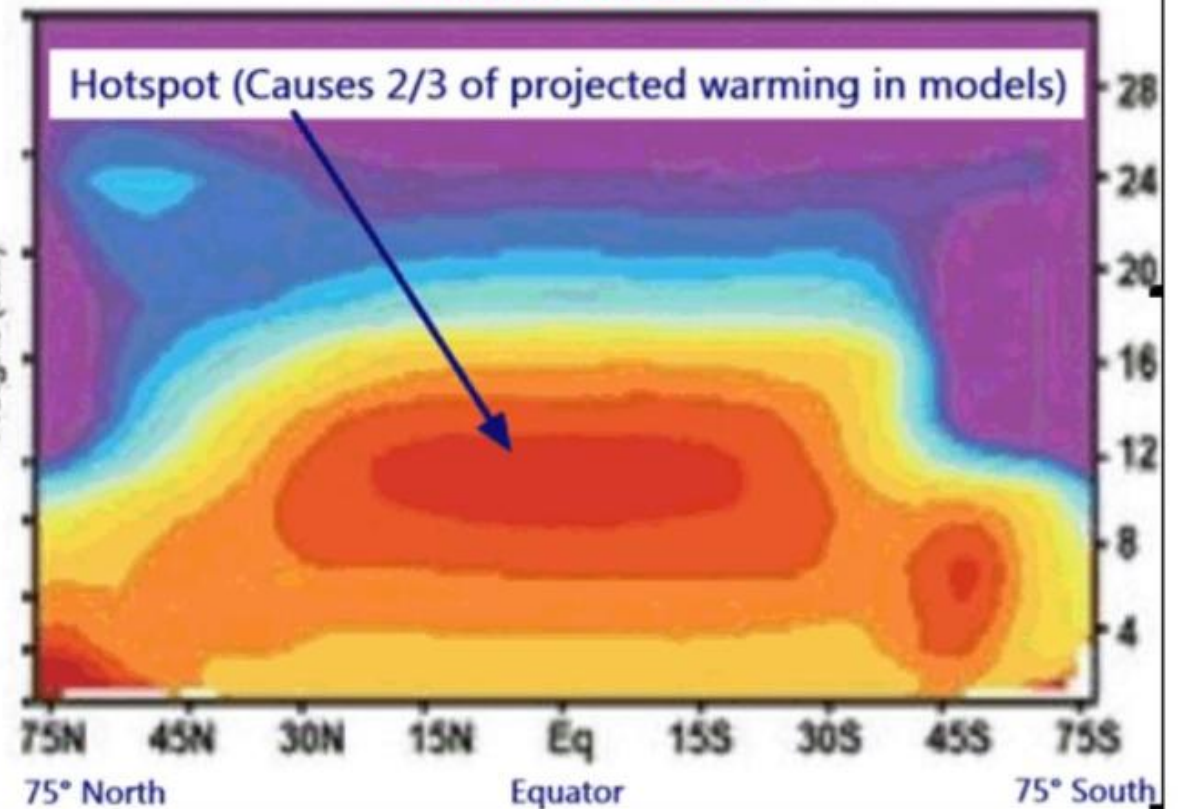
<https://cbdakota.files.wordpress.com/2011/09/fourfatalpieceshotspot.gif>

Atmospheric Warming 1979 - 1999

Reality



Climate Models



JoNova

It's obvious Government claims of a theoretical and physical understand the climate are fundamentally wrong.

The Obama-Era EPA cited evidence based upon temperatures the last several decades being unusual

Next graphics two show this is not the case.

Uncorrupted temperature records contain natural cycles.

Temperature Record containing natural cycles

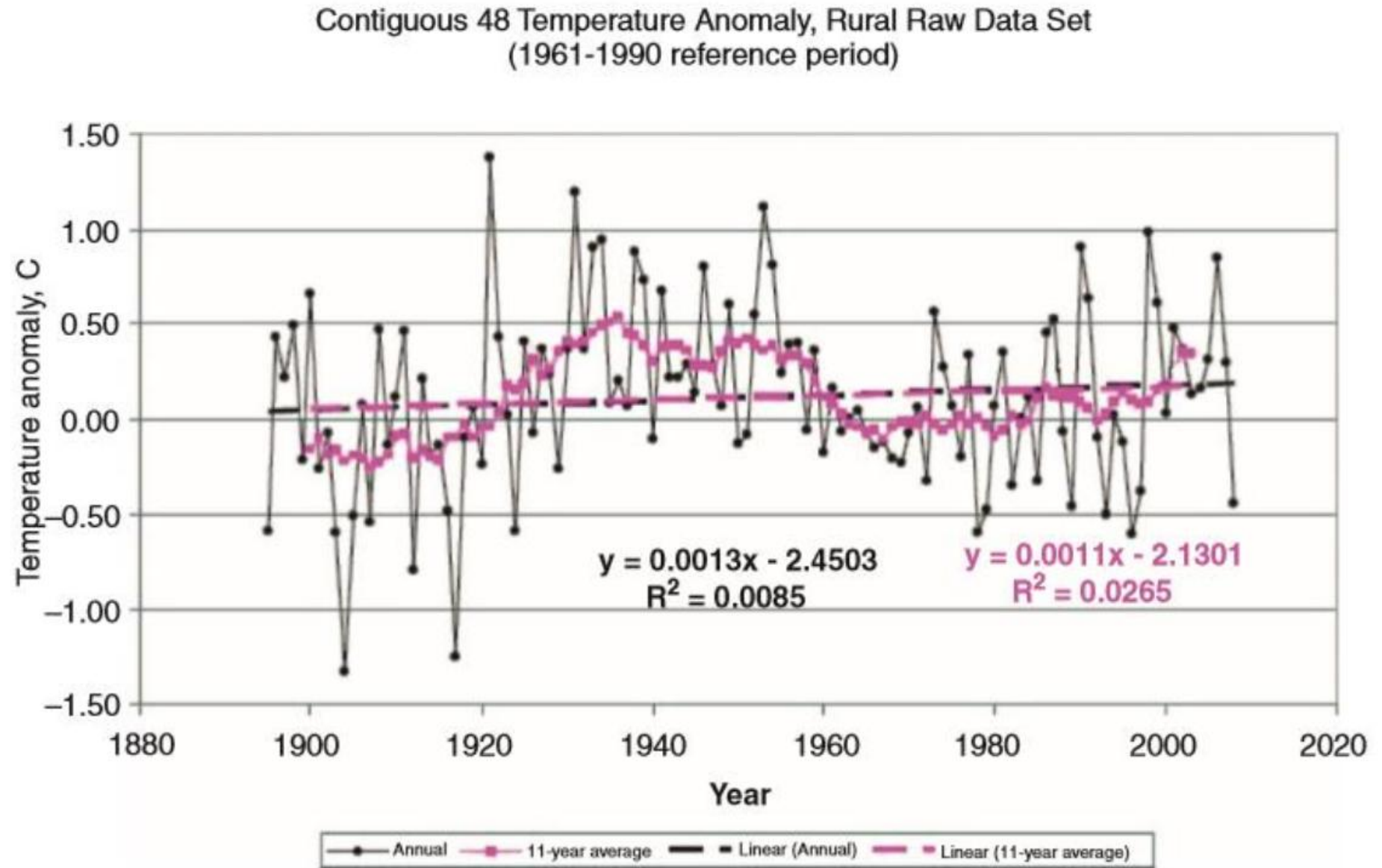
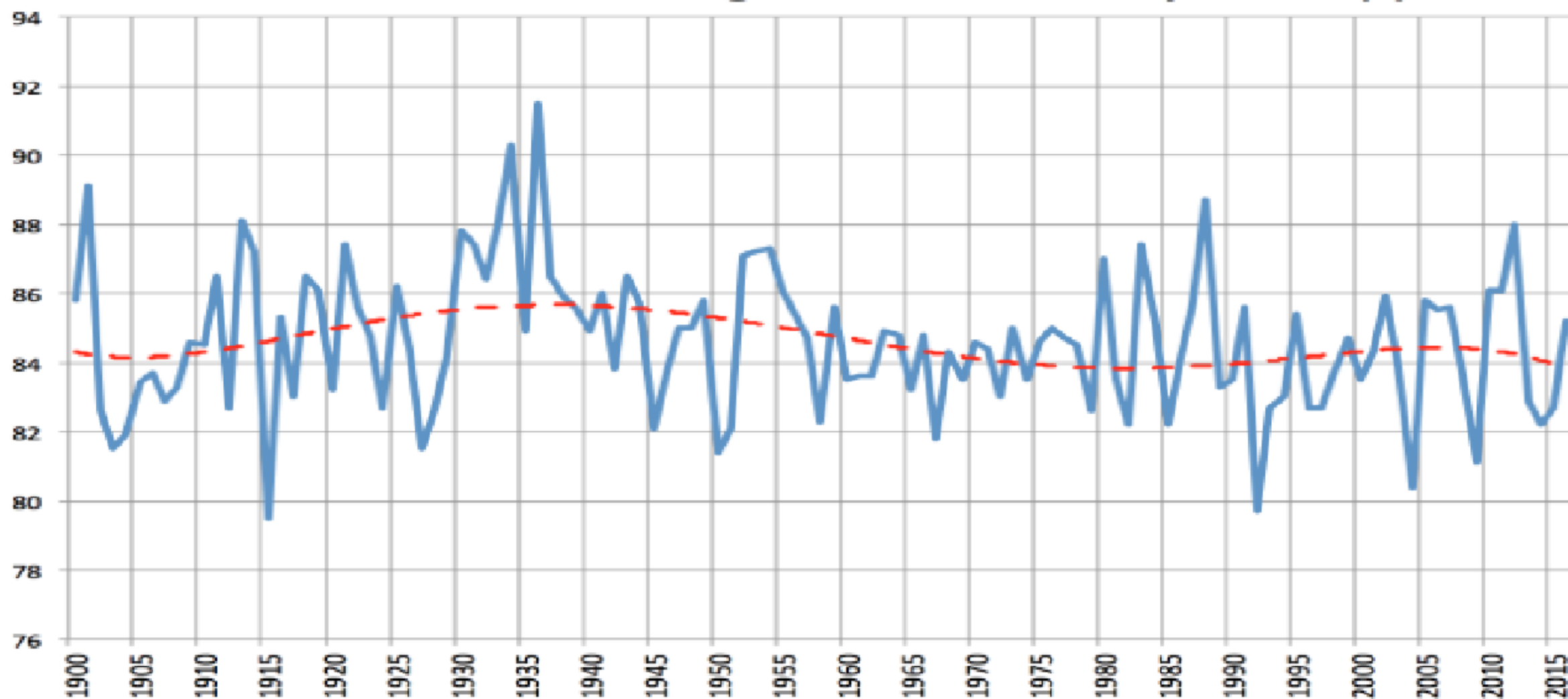


FIGURE 28 Edward long analysis of rural raw stations for the lower 48 states, USHCN version 2. Note the very small trend $0.12^{\circ}\text{C}/\text{century}$ in this data set and at the significant peak in the 1930s.

Natural cycles in the USA's Corn and Bean Belt

Figure V-7

Corn and Bean Belt Average Summer Max Temperature (F)

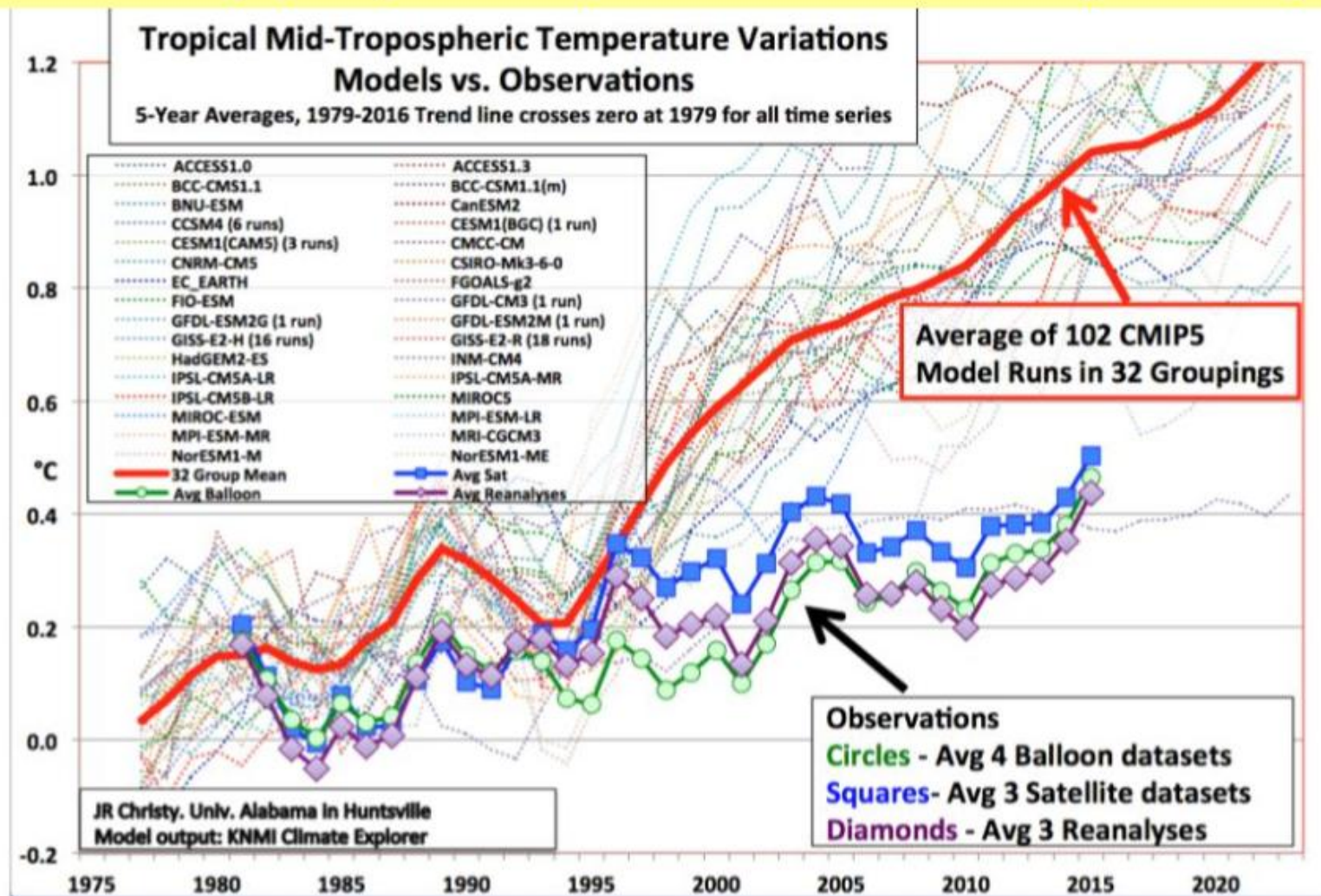


Source: NOAA Climate at a Glance

The Obama-Era EPA cited evidence
based on “computer models of the climate”

Next graphic from Christy and Spencer, UAH,
shows this claim is false.

Computer models of the Atmosphere are Fundamentally Flawed.

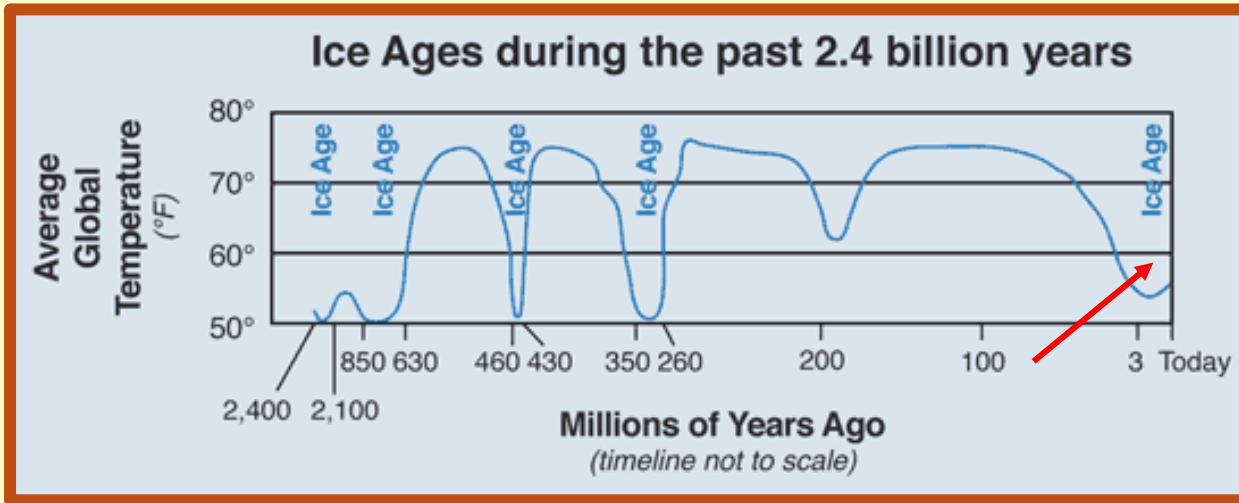


Five-year averaged values of annual mean (1979-2016) tropical bulk TMT as depicted by the average of 102 IPCC CMIP5 climate models (red) in 32 institutional groups (dotted lines). The 1979-2016 linear trend of all time series intersects at zero in 1979. Observations are displayed with symbols: Green circles - average of 4 balloon datasets, blue squares - 3 satellite datasets and purple diamonds - 3 reanalyses. The last observational point at 2015 is the average of 2013-2016 only, while all other points are centered, 5-year averages.

Climate History plots show we are in an Ice Age. The present interglacial is the COOLEST of the past five, Despite today's 427 PPM CO₂.

To the right are thumbnail graphics of [Earth Temperature](#), from the Utah Geologic Survey.

Note well on the far right, the red arrow, today's Ice Age, the last 2.6 million years, the [Pleistocene Epoch](#).

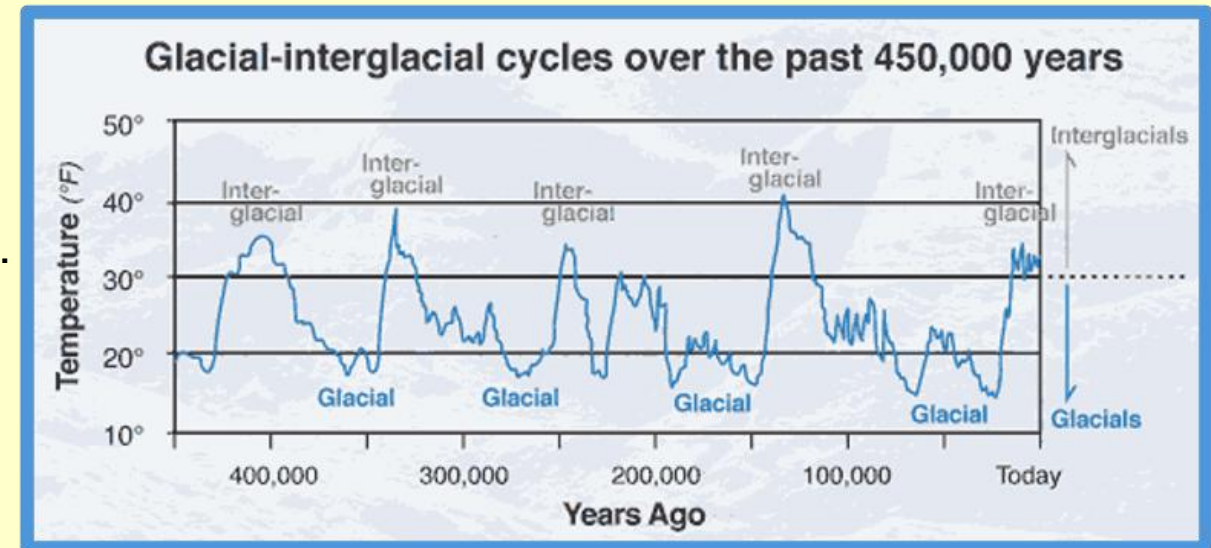


Within the Pleistocene, especially within the past 450,000 years, there have been five interglacials.

The graphic to the right, with the bright blue border, shows a temperature time series during those 450,000 years.

Note well that the today's interglacial, often called the **Holocene**, is the COOLEST of the five interglacials

[Current <CO₂>](#), 12 Jun 2026, is 427 Parts Per Million.



Administrator Zeldin's Legal Methodology:

EPA Can't enforce the endangerment finding because Congress did not authorize the Executive Branch to do so. *Legal Methodology* is the route chosen by EPA Administrator Zeldin and explored below.

<https://www.epa.gov/newsreleases/president-trump-and-administrator-zeldin-deliver-single-largest-deregulatory-action-us>

President Trump and Administrator Zeldin Deliver Single Largest Deregulatory Action in U.S. History

We explore “off-cycle credits” a bit later.

Trump Admin Eliminates Obama-Era Endangerment Finding, off-cycle credits, start-stop feature

<https://www.epa.gov/newsreleases/president-trump-and-administrator-zeldin-deliver-single-largest-deregulatory-action-us>

WASHINGTON – Alongside President Trump in the White House’s Roosevelt Room, U.S. Environmental Protection Agency (EPA) Administrator Lee Zeldin announced the single largest deregulatory action in U.S. history. In this final rule, EPA is saving American taxpayers over \$1.3 trillion, eliminating both the Obama-era 2009 Greenhouse Gas (GHG) Endangerment Finding and all subsequent federal GHG emission standards for all vehicles and engines of model years 2012 to 2027 and beyond. The action also eliminates all **off-cycle credits**, including for the almost universally hated start-stop feature. EPA’s historic move restores consumer choice, makes more affordable vehicles available for American families, and decreases the cost of living on all products by lowering the cost of trucks. This major deregulatory process included substantial public input and robust analysis of the law following the U.S. Supreme Court decision in *Loper Bright Enterprises v. Raimondo* and *West Virginia v. EPA*.

Prioritizing Consumer Choice

The Endangerment Finding enabled the Obama and Biden Administrations' illegal push toward EV mandates. These mandates pressure the vehicle industry to phase down production of various models of traditional gasoline and diesel trucks and to reengineer their fleets towards uneconomic and infeasible electric technologies. The Obama and Biden Administrations also used the Endangerment Finding to support off-cycle credits to forcibly incentivize automakers into adopting unpopular systems, undermining consumer choice. An off-cycle credit is a government-created concept that let auto manufacturers meet federal GHG standards on paper, by adding features like the almost universally hated start-stop feature, resulting in questionable emission reductions. Automakers should not be forced to adopt or rewarded for technologies that are merely a climate participation trophy with no material benefit. The Trump EPA chooses consumer choice over posturing to climate change zealots every time. Today's announcement ends all off-cycle credits, eliminates EPA incentives for the start-stop button, and restores consumer choice. Americans will be able to buy the car they want, including newer, more affordable cars with the most up to date safety standards and that emit fewer criteria and hazardous air pollutants.

Administrator Zeldin Eliminates Off-Cycle Credit for Almost Universally Hated Start-Stop Feature in Vehicles

WASHINGTON – Today, U.S. Environmental Protection Agency (EPA) Administrator Lee Zeldin eliminated the off-cycle credit that was used to implement the almost universally hated start-stop feature in American vehicles. This is a direct result of Administrator Zeldin signing the final rule eliminating both the Obama-era 2009 Greenhouse Gas (GHG) Endangerment Finding and all subsequent federal GHG emission standards for all vehicles and engines with model years 2012 to 2027 and beyond. The final action, which Administrator Zeldin announced today with President Trump at the White House, eliminates all off-cycle credits, including for what many Americans refer to as the single worst feature in cars—auto start-stop buttons. An off-cycle credit is a government-created concept that let auto manufacturers meet federal GHG standards on paper, by adding features like the almost universally hated start-stop feature, resulting in questionable emission reductions.

SIDEBAR: Some quotes about “**off-cycle credits**” from The International Council on Clean Transportation, ICCT.

https://theicct.org/wp-content/uploads/2021/06/Off-Cycle-Credits_ICCT-White-Paper_vF_20180327.pdf

“Regulations are in place in most major vehicle markets around the world to ensure that new vehicles achieve lower carbon dioxide (CO₂) emissions and fuel use per mile.”

“Due to various crediting provisions and the gap between the official test cycle and real-world operation, the associated consumer label fuel economy is expected to increase from approximately 25 mpg in 2016 to 35 mpg in 2025”

“The intent of the off-cycle crediting program is to identify and reward technologies that deliver real-world benefits but are insufficiently counted on the official test cycle.”

“Based on emerging trends in off-cycle credit use, they are expected to make up a much greater percentage of automakers’ vehicle compliance through 2025. Off-cycle technology credit use of 3 g/mi in 2016 amounts to just 3% of the 95 g/mi reduction required for 2016–2025.”

“Off-cycle credit use is likely to greatly increase by 2025. Although average off-cycle credit use was just 3 g/mi in 2016, pathways for more credit have opened up. Individual automakers have received credits in 14 separate areas. *Each off-cycle area amounts to less than 0.6 g/mi fleetwide, but leading companies have received from 1 to more than 4 g/mi in credit in 11 different technology areas.*”

COMMENT: Off-Cycle Credits was a smoke-and-mirrors effort to lie to consumers and the public at large. I hope it is gone for good.

“The Endangerment Finding has been the source of 16 years of consumer choice restrictions and trillions of dollars in hidden costs for Americans,” said Administrator Zeldin. “Referred to by some as the ‘Holy Grail’ of the ‘climate change religion,’ the Endangerment Finding is now eliminated. The Trump EPA is strictly following the letter of the law, returning commonsense to policy, delivering consumer choice to Americans and advancing the American Dream. As EPA Administrator, I am proud to deliver the single largest deregulatory action in U.S. history on behalf of American taxpayers and consumers. As an added bonus, the off-cycle credit for the almost universally despised start-stop feature on vehicles has been removed.”

The 2009 Endangerment Finding was used to justify trillions of dollars in regulations, including the Obama and Biden Administrations' illegal push towards Electric Vehicle (EV) mandates and compliance requirements, while simultaneously driving up the cost of vehicles for American families and small businesses—limiting economic mobility and the American Dream. The final rule will save Americans over \$1.3 trillion by removing the regulatory requirements to measure, report, certify, and comply with federal GHG emission standards for motor vehicles, and repeals associated compliance programs, credit provisions, and reporting obligations that exist solely to support the vehicle GHG regulatory regime. Americans will have certainty, flexibility and regulatory relief, allowing companies to plan appropriately, and empowering American families.

Returning the Rule of Law to EPA Regulations

In finalizing this rule, EPA carefully considered and reevaluated the legal foundation of the 2009 Endangerment Finding and the text of the Clean Air Act (CAA) in light of subsequent legal developments and court decisions. The agency concludes that Section 202(a) of the CAA does not provide statutory authority for EPA to prescribe motor vehicle and engine emission standards in the manner previously utilized, including for the purpose of addressing global climate change, and therefore has no legal basis for the Endangerment Finding and resulting regulations. EPA firmly believes the 2009 Endangerment Finding made by the Obama Administration exceeded the agency's authority to combat "air pollution" that harms public health and welfare, and that a policy decision of this magnitude, which carries sweeping economic and policy consequences, lies solely with Congress. Unlike our predecessors, the Trump EPA is committed to following the law exactly as it is written and as Congress intended—not as others might wish it to be.

Creating Policy Rooted in Reality

The Endangerment Finding was a legal prerequisite used by the Obama and Biden Administrations to regulate GHG emissions. In the 16 years since the Endangerment Finding, many of the predictions and assumptions used to justify the rule did not materialize. Using the same types of models utilized by the previous administrations and climate change zealots, EPA now finds that even if the U.S. were to eliminate all GHG emissions from all vehicles, there would be no material impact on global climate indicators through 2100. Therefore, maintaining GHG emission standards is not necessary for EPA to fulfill its core mission of protecting human health and the environment, but regardless, is not within the authority Congress entrusted to EPA. **Today's action is only related to GHG emissions and does not affect regulations that combat criteria pollutants and air toxics.** The Trump EPA's final rule dismantles the tactics and legal fictions used by the Obama and Biden Administrations to backdoor their ideological agendas on the American people. (BOLD Added)

Restoring the American Dream

Affordable vehicle ownership is essential to the American Dream and a primary driver of economic mobility out of poverty in the United States. The Endangerment Finding led to vehicle and engine regulations with an aggregate cost of more than \$1 trillion and played a significant role in EPA's justification of regulations of other sources beyond cars and trucks, resulting in additional costly burdens on American families and businesses. Americans rely on vehicles to reach jobs, education, health care, and essential services. This is especially true in rural areas and regions without robust public transit. The costs imposed by these climate policies have placed new cars out of reach for many American families and harmed Americans' ability to climb out of poverty or reach essential services. The Trump EPA is expected to deliver Americans over \$1.3 trillion in cost savings, which includes reduced costs for new vehicles and avoided costs of purchasing equipment related to EVs. This action will result in an average cost savings of over \$2,400 per vehicle. By lowering vehicle and regulatory compliance costs, EPA is improving affordability and expanding consumer choice and ultimately advancing the American Dream by making it easier to reach jobs, grow small businesses, and participate fully in the transportation and logistics systems that power the U.S. economy.

Collecting Substantial Public Input

Understanding the importance of this action, EPA conducted a transparent and inclusive rulemaking process. The agency held an extended 52-day public comment period, which included four days of virtual public hearings where more than 600 individuals testified.

EPA received about 572,000 public comments on the proposed rule and made substantial updates to the final rule in response to comments. A summary of public input and EPA's responses to all comments can be found in the final rule preamble and accompanying documents, and all comments received, including entries summarizing several hundred mass-mailer campaigns, are available in the rulemaking docket.

We submitted our input, to Regulations.gov, during the comment period. It is this post:

<https://casf.me/comment-on-critical-review-of-impacts-of-greenhouse-gas-emissions-on-the-u-s-climate>

We clearly showed that <CO2> does not control temperature.

<https://apnews.com/article/zeldin-epa-heartland-climate-change-endangerment-e5b831bb200da83adbaa60a8d50f27f5>

Zeldin tells climate skeptics to 'celebrate vindication' after repeal of baseline climate rule

I had the pleasure of hearing EPA Secretary Zeldin make these remarks live, on 8 April 2026, in DC, at <https://climateconference.heartland.org/>



Lee Zeldin, Environmental Protection Agency Administrator, delivers a speech at the reception of the Indo-Pacific Energy Security Ministerial and Business Forum at U.S. Ambassador's Residence Friday, March 13, 2026, in Tokyo. (AP Photo/Eugene Hoshiko, Pool)

Zeldin tells climate skeptics to ‘celebrate vindication’ after repeal of baseline climate rule

WASHINGTON (AP) — The head of the Environmental Protection Agency on Wednesday defended his decision to repeal the legal determination that serves as the basis for federal rules to slow climate change, telling a gathering of climate change skeptics they should “celebrate vindication.”

EPA Administrator Lee Zeldin made the remarks in the keynote address at a conference hosted by the Heartland Institute, a conservative think tank that rejects mainstream climate science and what it calls “climate alarmism.” Zeldin told the gathering that repeal of the 2009 “endangerment finding” reversed decades of unthinking adherence to liberal politicians and environmental groups about the dangers of climate change.

“Today is a moment to celebrate. It is a day to celebrate vindication,” said Zeldin, a former Republican congressman from New York who is widely believed to be under consideration for a possible promotion to attorney general, following Pam Bondi’s forced departure last week.

<https://apnews.com/article/zeldin-epa-heartland-climate-change-endangerment>

The Climate Alarmists and their Allies in the Main-Stream Media are furious.

Examples follow:

Opinion, (**wrong** opinion, IMHO,) posing as news in the Los Angeles Times, 12 Feb 2026

“Rejecting science, Trump reverses conclusion that climate change is harming Americans”



- The Trump administration has repealed the 2009 endangerment finding on greenhouse gases, eliminating the foundation of much of U.S. climate policy.
- The decision reverses decades of environmental progress despite overwhelming scientific evidence and opposition from health experts, environmental groups, 50 cities and nearly two dozen states.
- Experts warn the repeal will increase pollution, respiratory disease and planet-warming emissions over the coming decades.
- <https://www.latimes.com/environment/story/2026-02-12/rejecting-science-trump-reverses-conclusion-that-climate-change-is-harming-americans>

From the AP story, previous page:

“The Trump administration has repealed the 2009 endangerment finding on greenhouse gases, eliminating the foundation of much of U.S. climate policy.”

That the AP, its writers, and proofreaders think that the United States needs a “climate policy,” shows in their own words a deeply held belief, that:

- The US needs and had a value-added “climate policy.”
- The US and the countries of the world can control the climate by ‘enacting the correct climate policy or policies.’

Such notion or notions are daft in my humble opinion.

<https://www.latimes.com/environment/story/2026-02-12/rejecting-science-trump-reverses-conclusion-that-climate-change-is-harming-americans>



“Independent researchers around the world have long concluded that greenhouse gases released by the burning of gasoline, diesel and other fossil fuels are warming the planet and worsening weather disasters.”

“That includes in California, which sits on the “front lines of climate impacts and pollution impacts,” said Leah Stokes, an associate professor of political science at UC Santa Barbara.”

“The endangerment finding was really about putting the country on a path to dealing with these emissions,” Stokes said. “This is a policy that basically is protecting Americans, and they’ve decided that they don’t care about that, that no matter what — the wildfires or flooding or drought or **heat waves that are killing people** — that they’re not going to take action . <written as if humans control the weather and climate>

After 100 years of
climate change,
'climate related deaths'
approach zero

<https://climaterealism.com/wp-content/uploads/2021/01/climate-related-deaths-1920-2020.png>

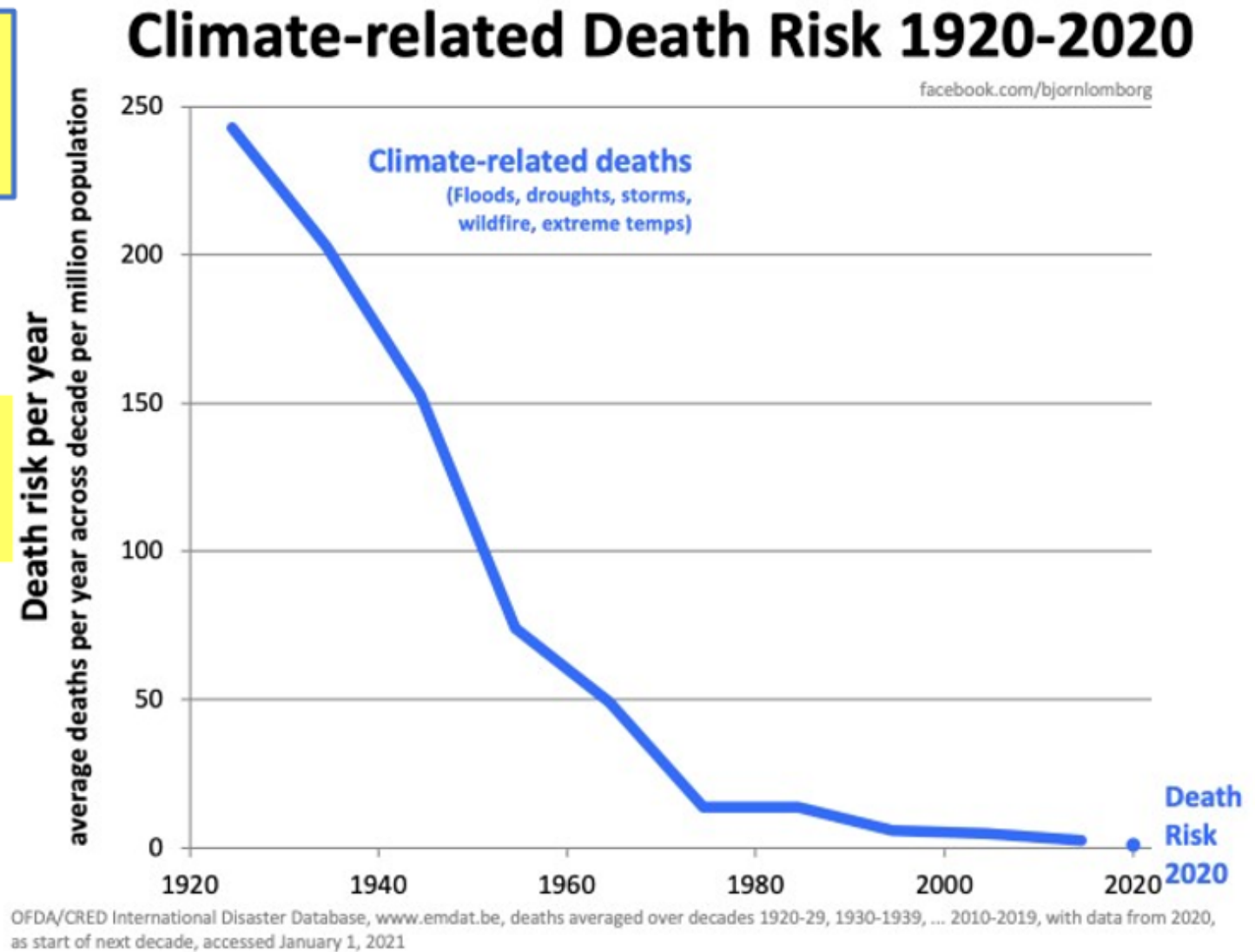
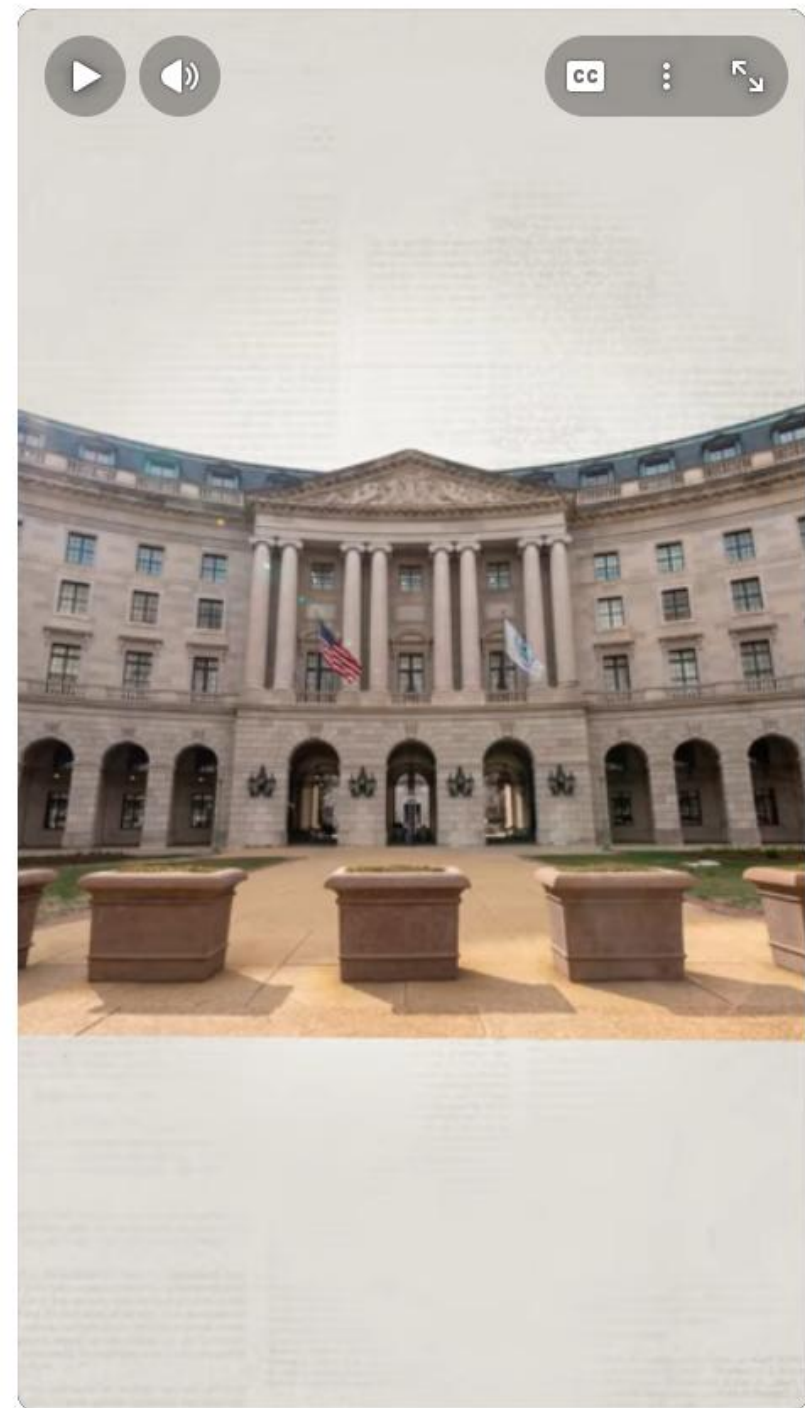


Figure 1. The Heartland Institute's publication, **Climate Realism**, plotted the Death Risk from weather and climate-related sources for the period 1920-2020. The number of deaths per year per million population fell from almost 250 per million to single digits per million during that time period. The death rate from such conditions has decreased over 99 per cent.

<https://www.youtube.com/shorts/leuJ0kUKyy8>



RELATED TOPICS—and Important to CASF

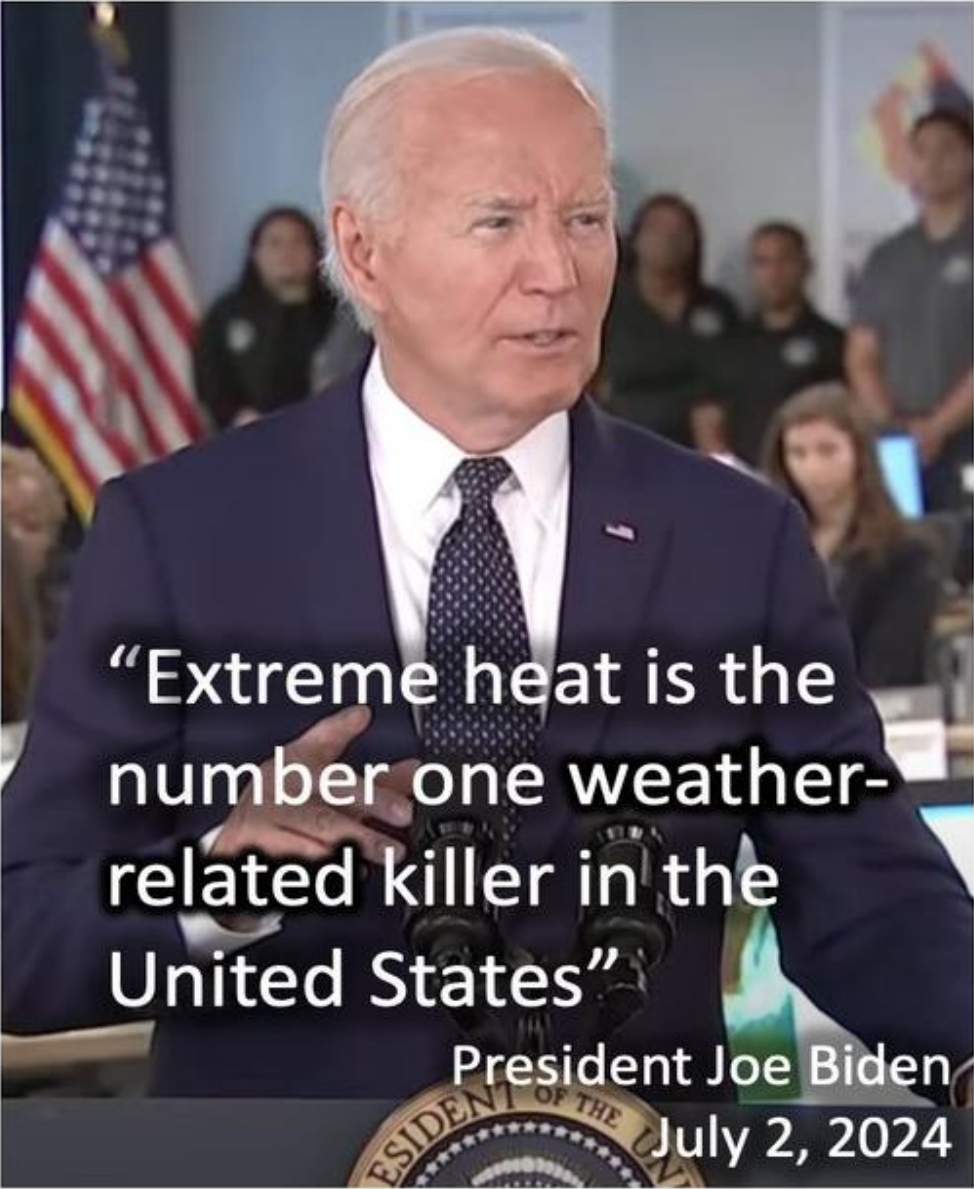
- Blatantly Wrong Assertions, Cheating, Data Falsification, even Theft—revealed in research here
- Good News: Modern societies, using inexpensive fossil fuels successfully provide for their newborns.
- Careful study of earth history reveals little truth in Climate Alarmist Stories
- Sea Level measurements and history reveal no evidence that we control sea level or that modern sea level change is unusual
- Increasing <CO₂> makes plants more efficient:
<https://wattsupwiththat.com/2026/06/11/global-rice-production-has-nearly-doubled-over-50-years-despite-climate-change/>

RELATED TOPICS—and Important to CASF

Blatantly Wrong Assertions , Cheating, Data
Falsification, Theft—are revealed in research here:

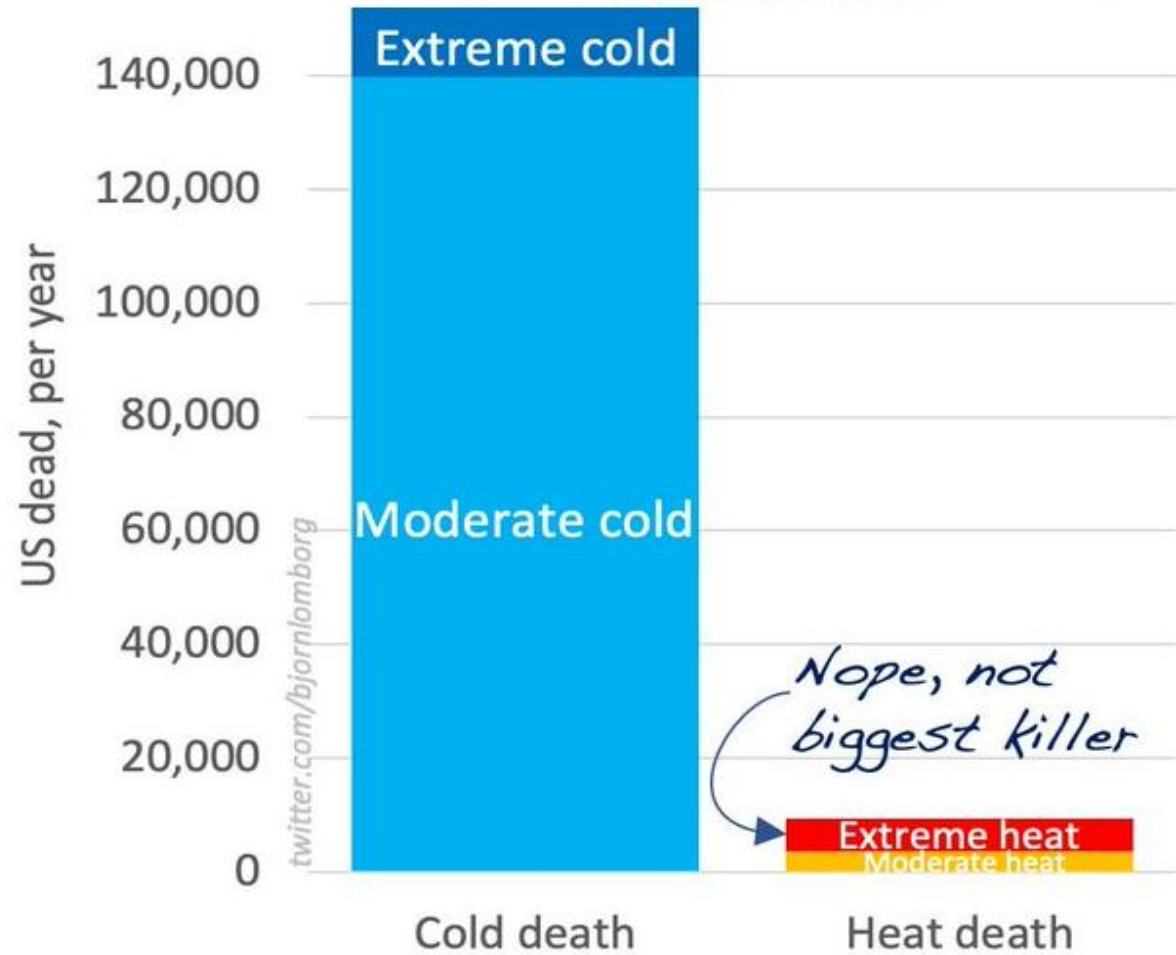
Blatantly Wrong...

Claims from the Biden Administration



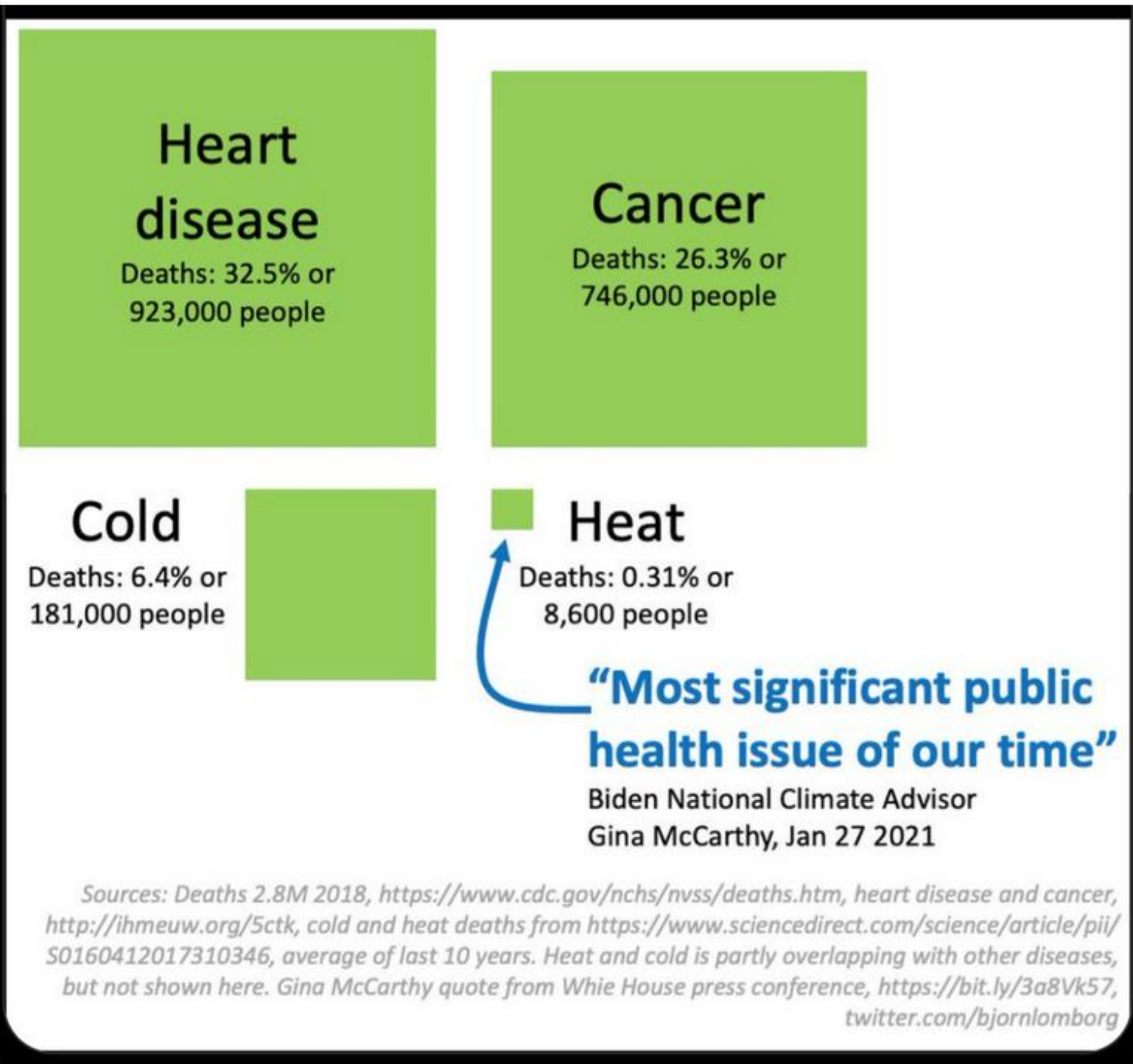
Untrue: Cold kills 25x more

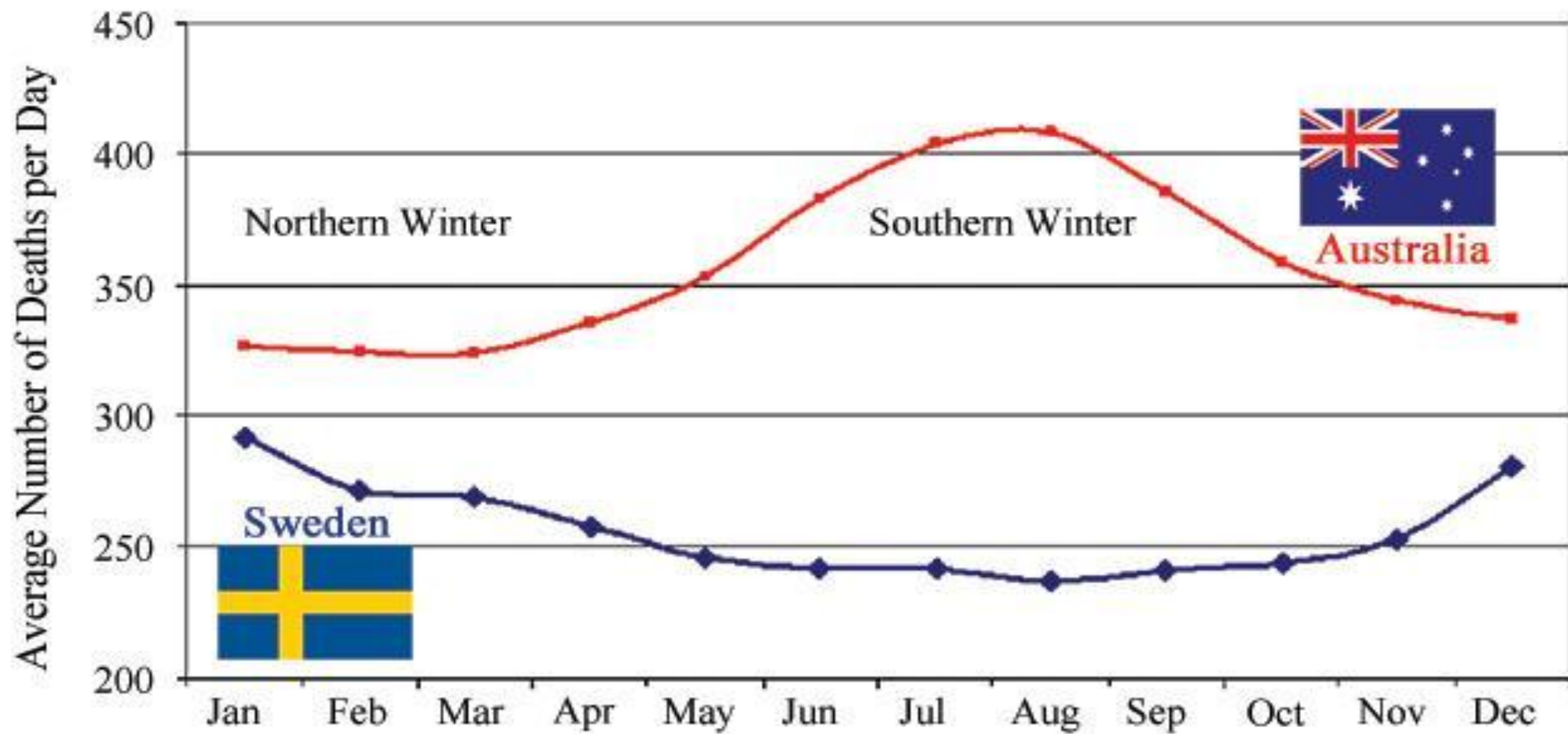
Cold biggest weather-related killer: kills 152,000 Americans each year. **Extreme heat** kills 6,000



Quote: <https://www.whitehouse.gov/briefing-room/speeches-remarks/2024/07/02/remarks-by-president-biden-on-extreme-weather>, <https://www.youtube.com/live/TE7EFddSRMI?si=ZbRKKOXxZH1Yv5Gz&t=198>
Graph shows attributable mortality fractions, with extreme heat >97.% and extreme cold <2.5 percentile, see Table S3, from 2015 Lancet article [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(14\)62114-0/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(14)62114-0/fulltext), using 2,712,630 US deaths in 2015, <https://www.cdc.gov/nchs/products/databriefs/db267.htm>. twitter.com/BjornLomborg

<https://evilincandescentbulb.wordpress.com/2022/06/05/global-warming-alarmism-skeptics-were-right-on/>





Temperature-Related Deaths in Australia and Sweden (Falagas, 2009)

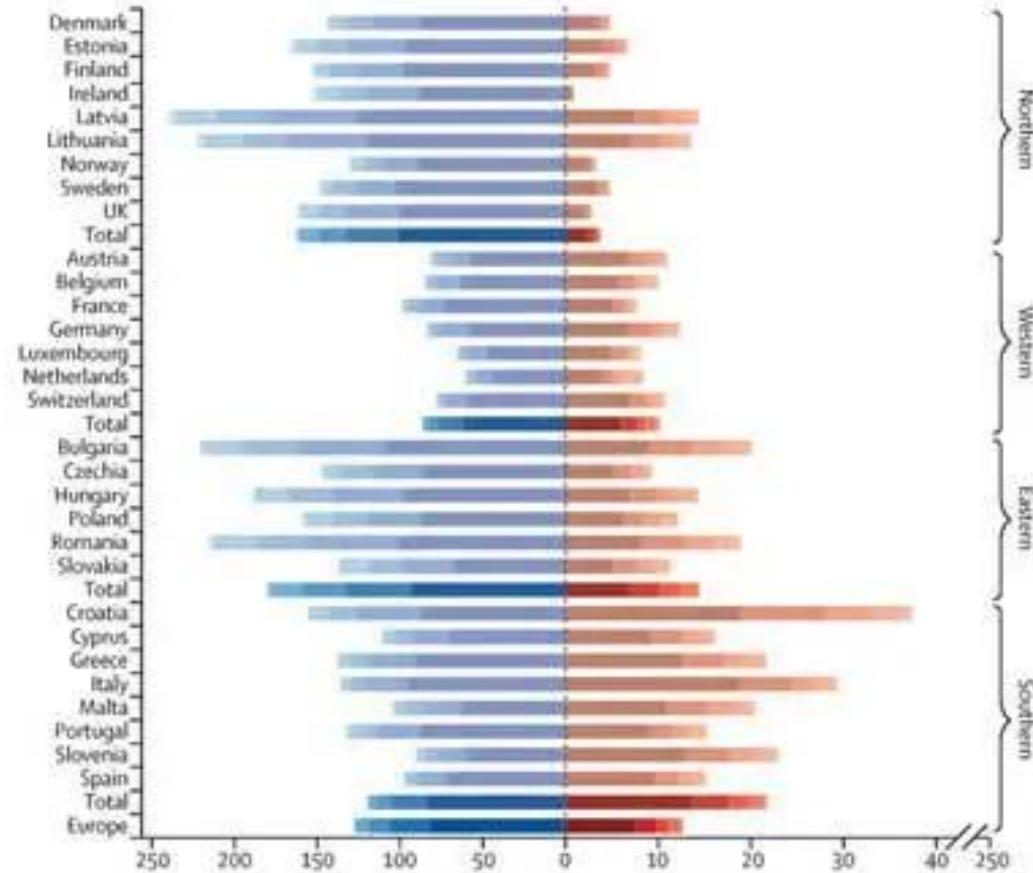
The Mad, Mad, Mad World of Climatism, Chapter 8

10x more Cold Deaths than Heat Deaths in Europe

Each year, **heat** kills 20,500, but **cold** kills more than 220,000

Age group
20-45 45-65 65-75 75-85 <85

As published with skewed scales



Same data with equal scales

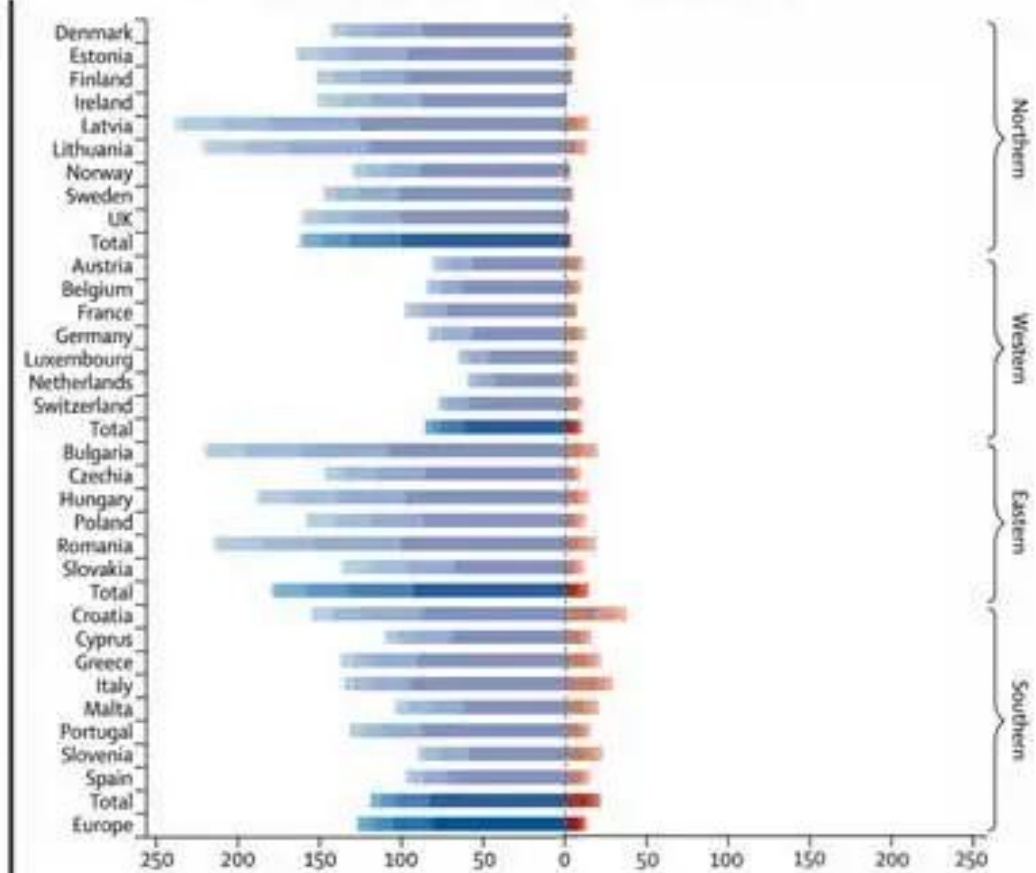


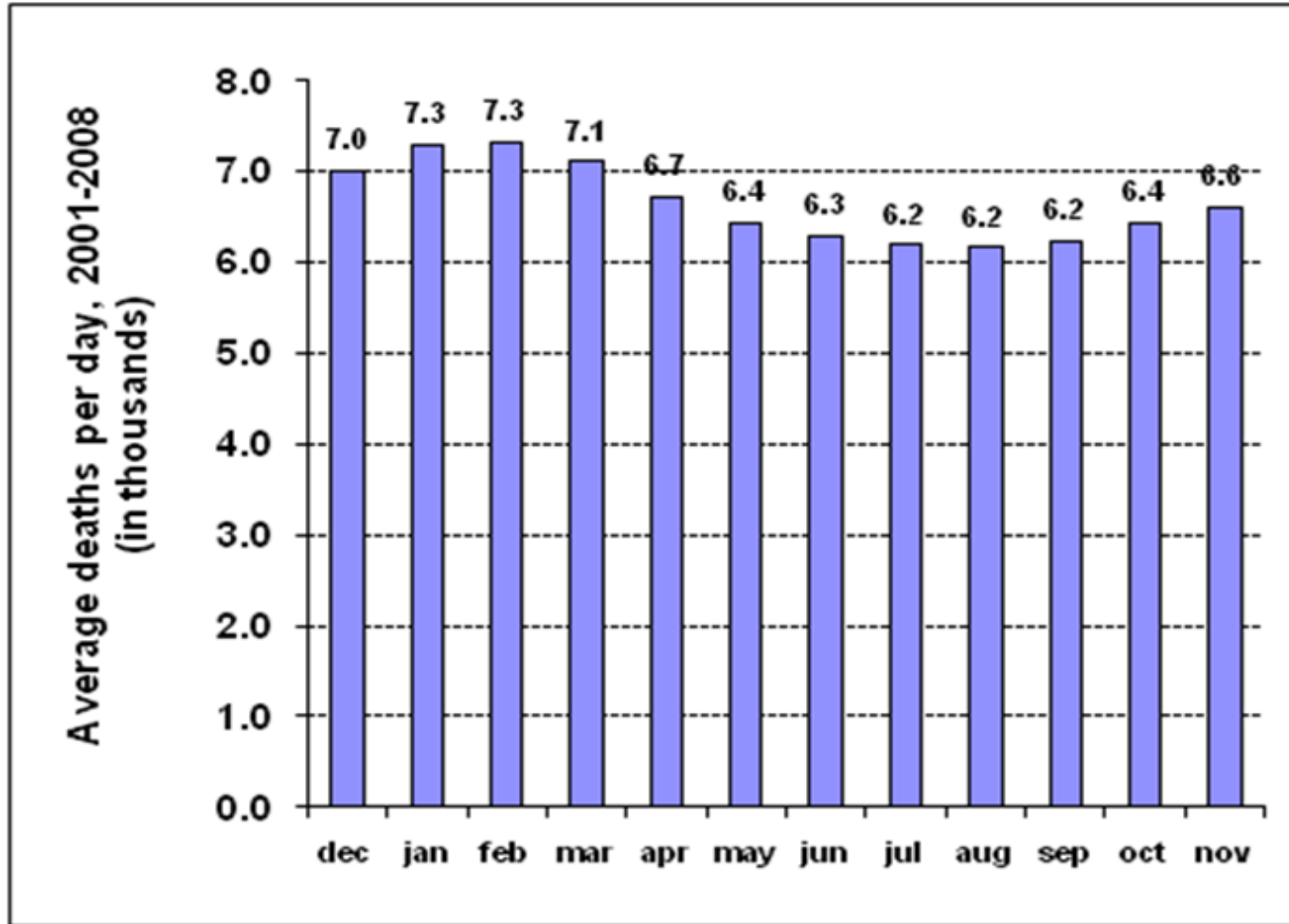
Figure 3 with original axes and with equal axes for rates of heat deaths (red) and cold deaths (blue)

"Excess mortality attributed to heat and cold: a health impact assessment study in 854 cities in Europe"

based on 2000-19 data, [www.thelancet.com/journals/lanph/article/PIIS2542-5196\(23\)00023-2/fulltext](https://www.thelancet.com/journals/lanph/article/PIIS2542-5196(23)00023-2/fulltext)

right hand image courtesy of Bjorn Lomborg via X

The data show that it is Cold Temperatures which cause the highest human death rates; Warmer Temperatures have lower death rates.



US National Center for Health Statistics, DataWarehouse

http://www.cdc.gov/nchs/datawh/statab/unpubd/mortabs/gmwkIV_10.htm

Blatantly Wrong:

Climate Alarmism in the Main-Stream Media

Norah O'Donnell describes..." the alarming new report that Sea Levels are rising at twice the rate as 2 decades ago, and will rise an additional 7 Ft (!) by Year 2100. Start at the 13:08 mark.

<https://www.youtube.com/watch?v=iCZW38sCvyU>

ALARMING CLIMATE REPORT

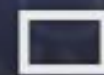
"...2023 was the "hottest year on record!" and a new report on climate change includes a DIRE Warning for the Planet."



13:32 / 17:55 • Alarming



HD



CBS News Guts Climate Team as New Conservative Management Takes Charge

The staff cuts came following a push by the climate team's lead producer to accurately report on Hurricane Melissa.

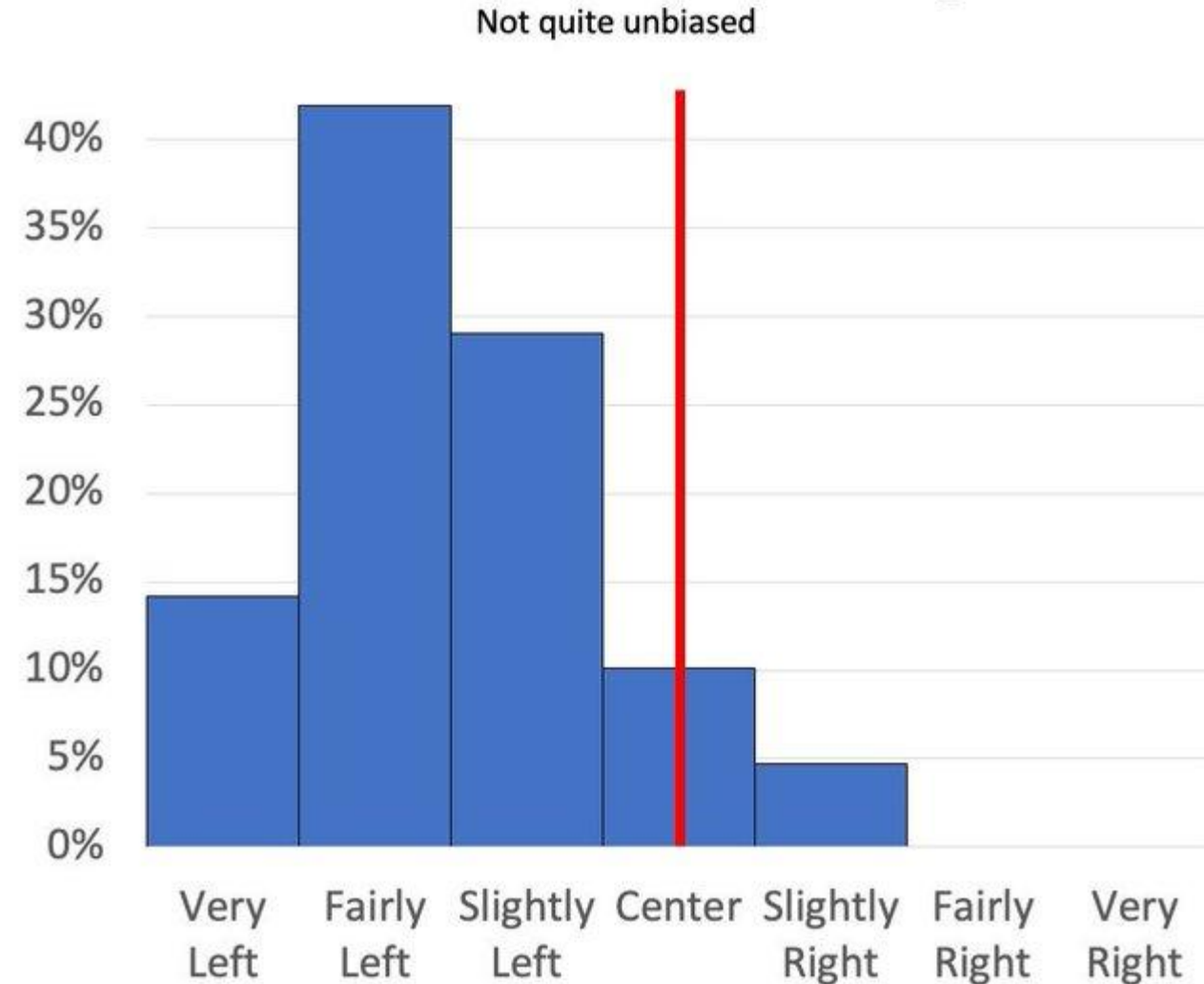
By Chris Walker, TRUTHOUT
November 3, 2025

<https://truthout.org/articles/cbs-news-guts-climate-team-as-new-conservative-management-takes-charge/>



Political leaning of misinformation experts

<https://twitter.com/BjornLomborg/status/1771508496921448790>



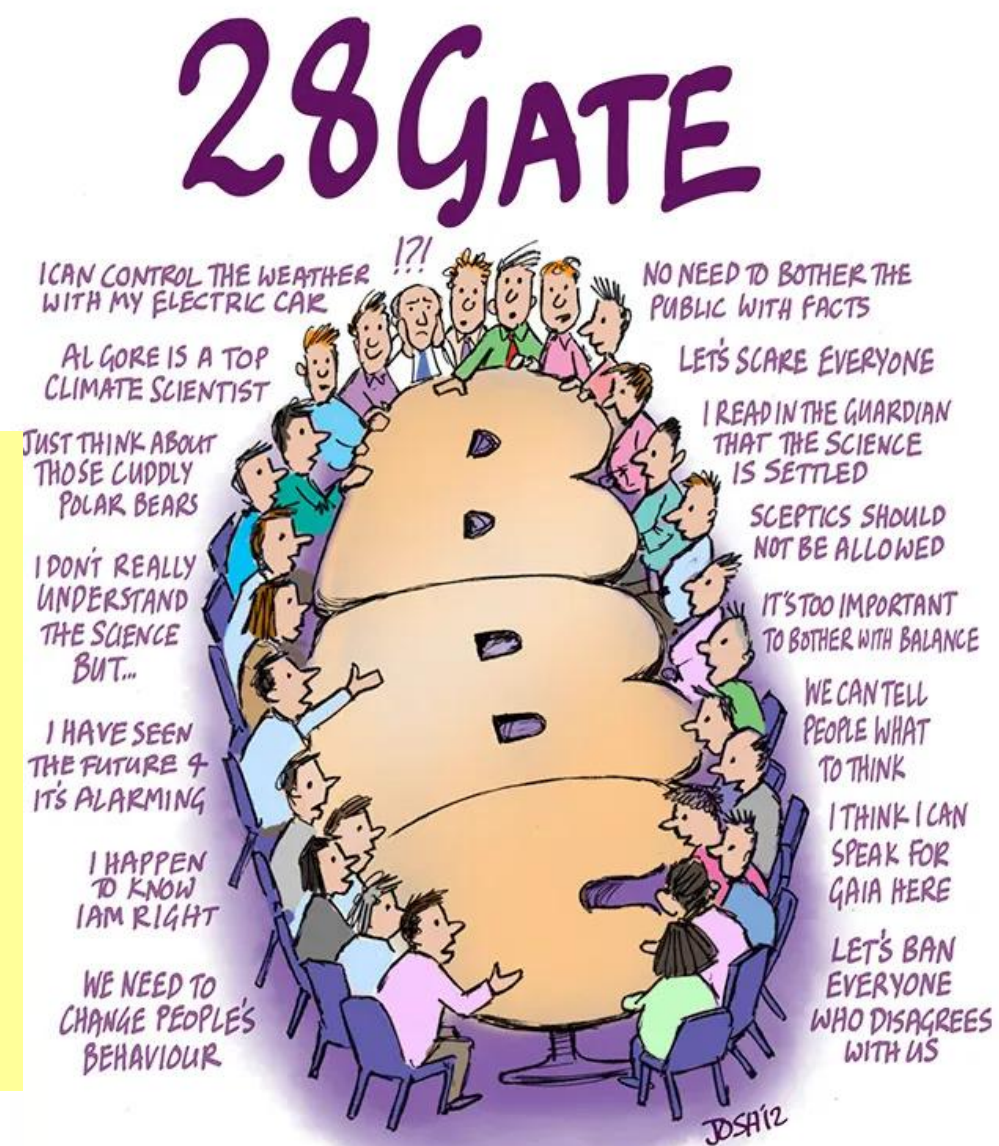
Appendix A, page 15, "A survey of expert views on misinformation: Definitions, determinants, solutions, and future of the field", https://misinforeview.hks.harvard.edu/wp-content/uploads/2023/07/altay_survey_expert_views_misinfo_20230727.pdf. twitter.com/bjornlomborg

<https://wattsupwiththat.com/2012/11/15/josh-on-28gate/>

UPDATE4: Bishop Hill makes this excerpt from correspondence the “quote of the day”:

We now know that **the BBC decided to abandon balance in its coverage of climate** on the advice of a small coterie of green activists, including the campaign director of Greenpeace.

This shows that the “shoddy journalism” of Newsnight’s recent smear was no “lapse” of standards at all. BBC news programs have for years been poorly checked recitations of the work of activists.



**WAYBACK WHEN
THEY DECIDED WHAT
WE SHOULD THINK**

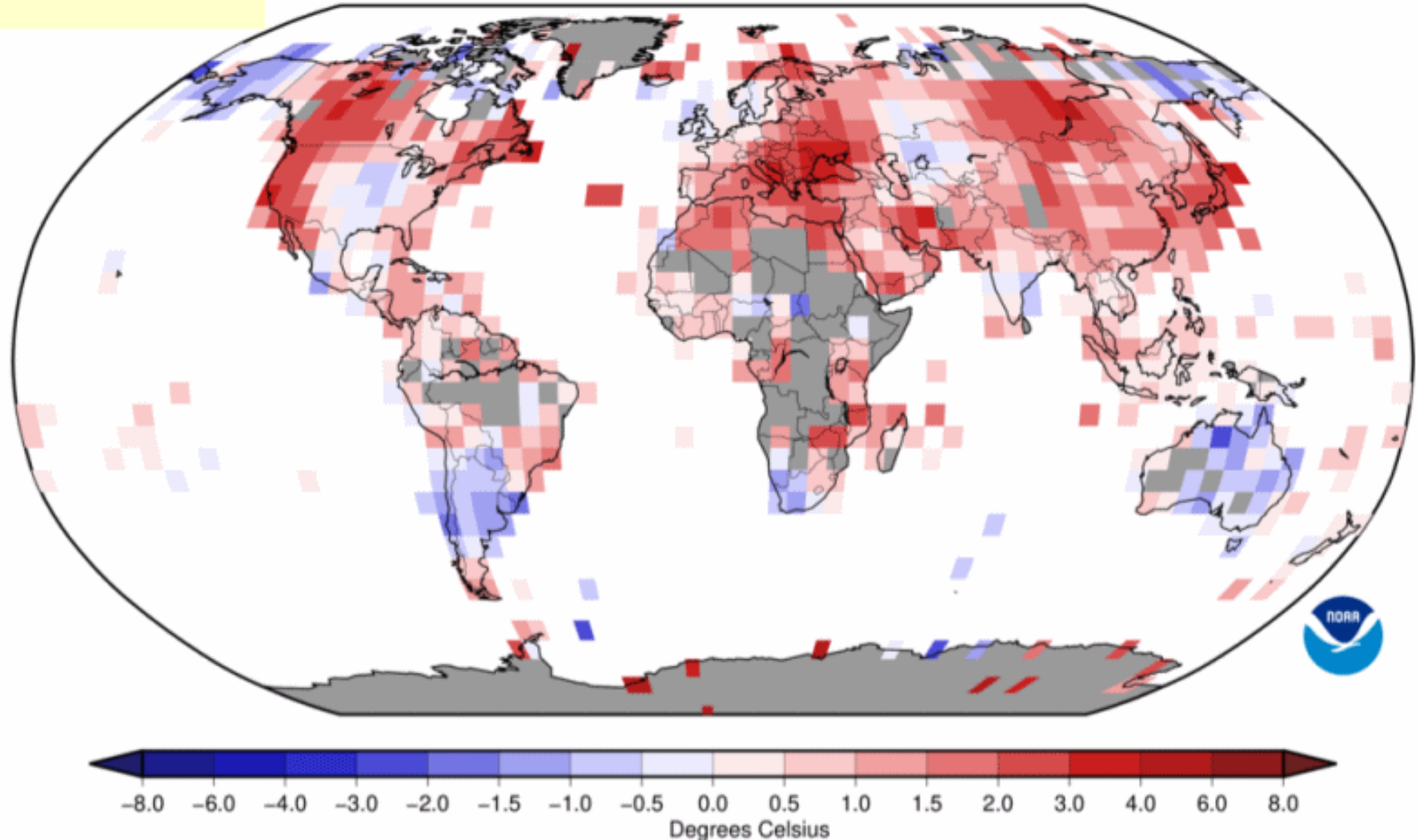
Data Falsification

NOAA Measured Temperature

Land-Only Temperature Departure from Average Jul 2024
(with respect to a 1991-2020 base period)

Data Source: GHCNM v4.0.1.20240805.qfe

<https://realclimatescience.com/2024/08/painting-the-world-red/>

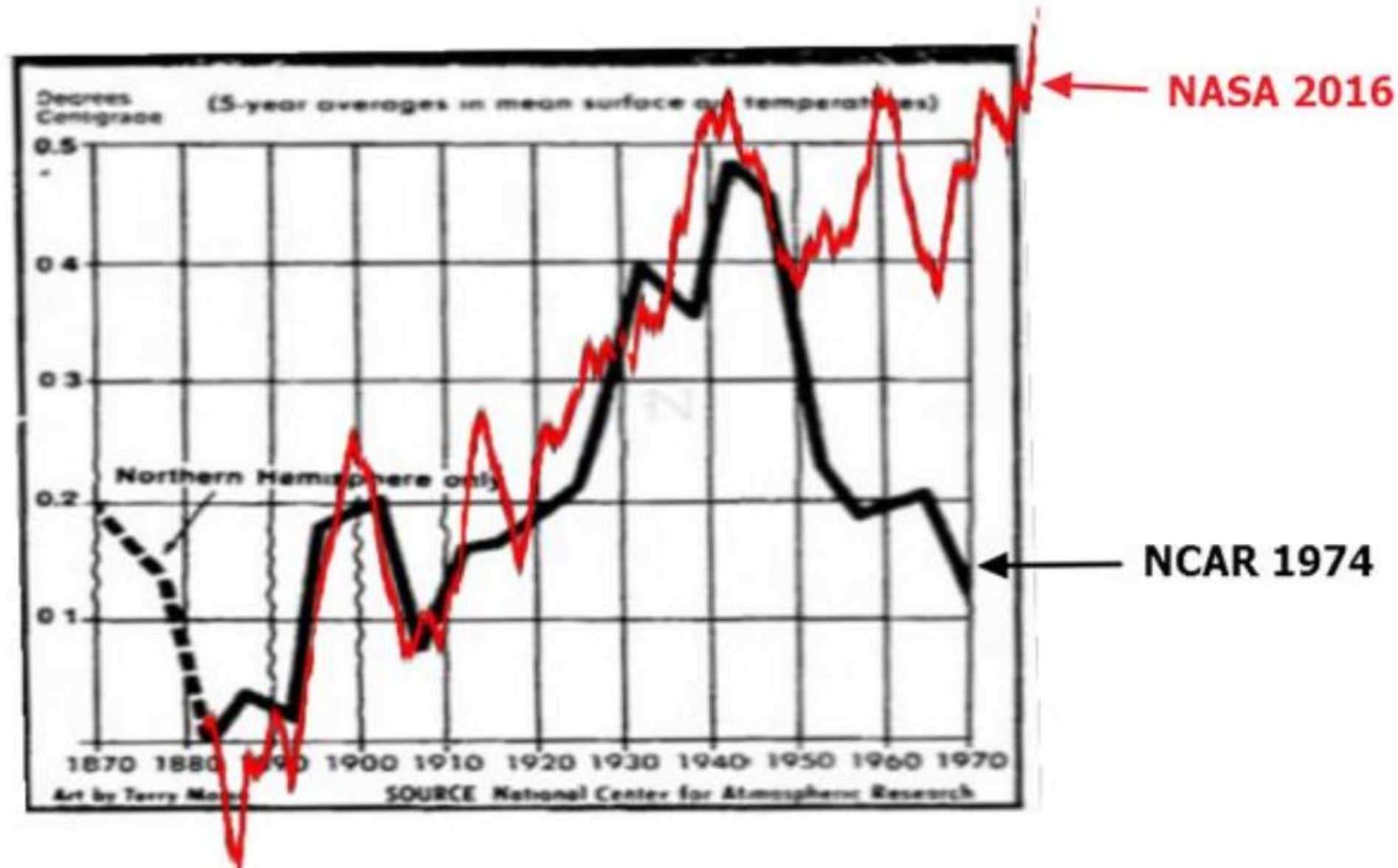


National Centers for Environmental Information
Wed Aug 7 01:36:39 EDT 2024

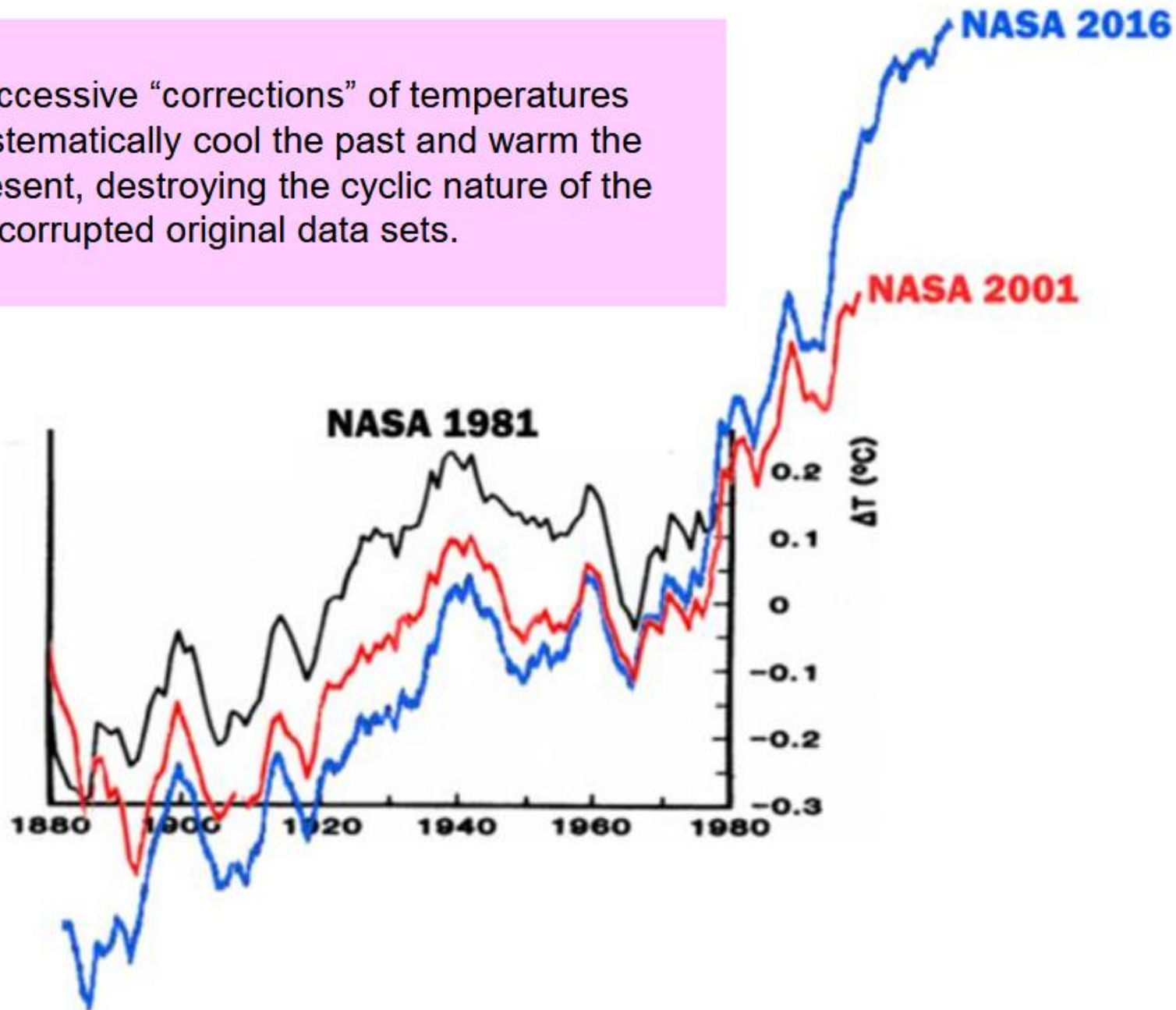
Please Note: Gray areas represent missing data
Map Projection: Robinson

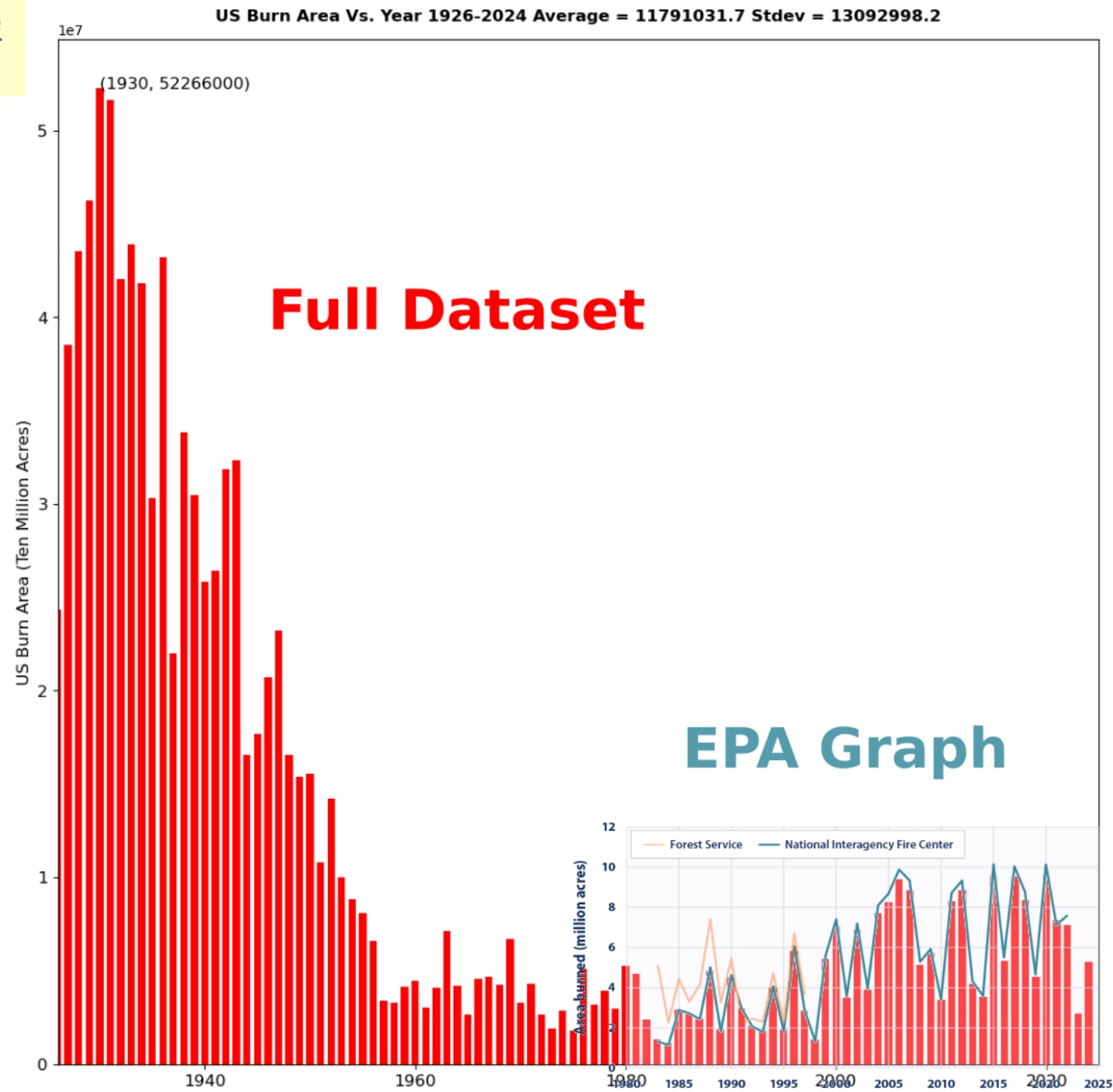
BLACK trace shows the “tooth-shaped” temperatures published by NCAR in 1974, during the “Global Cooling” scare of the 1970s

RED trace shows a 2016 NASA GISS temperature History.

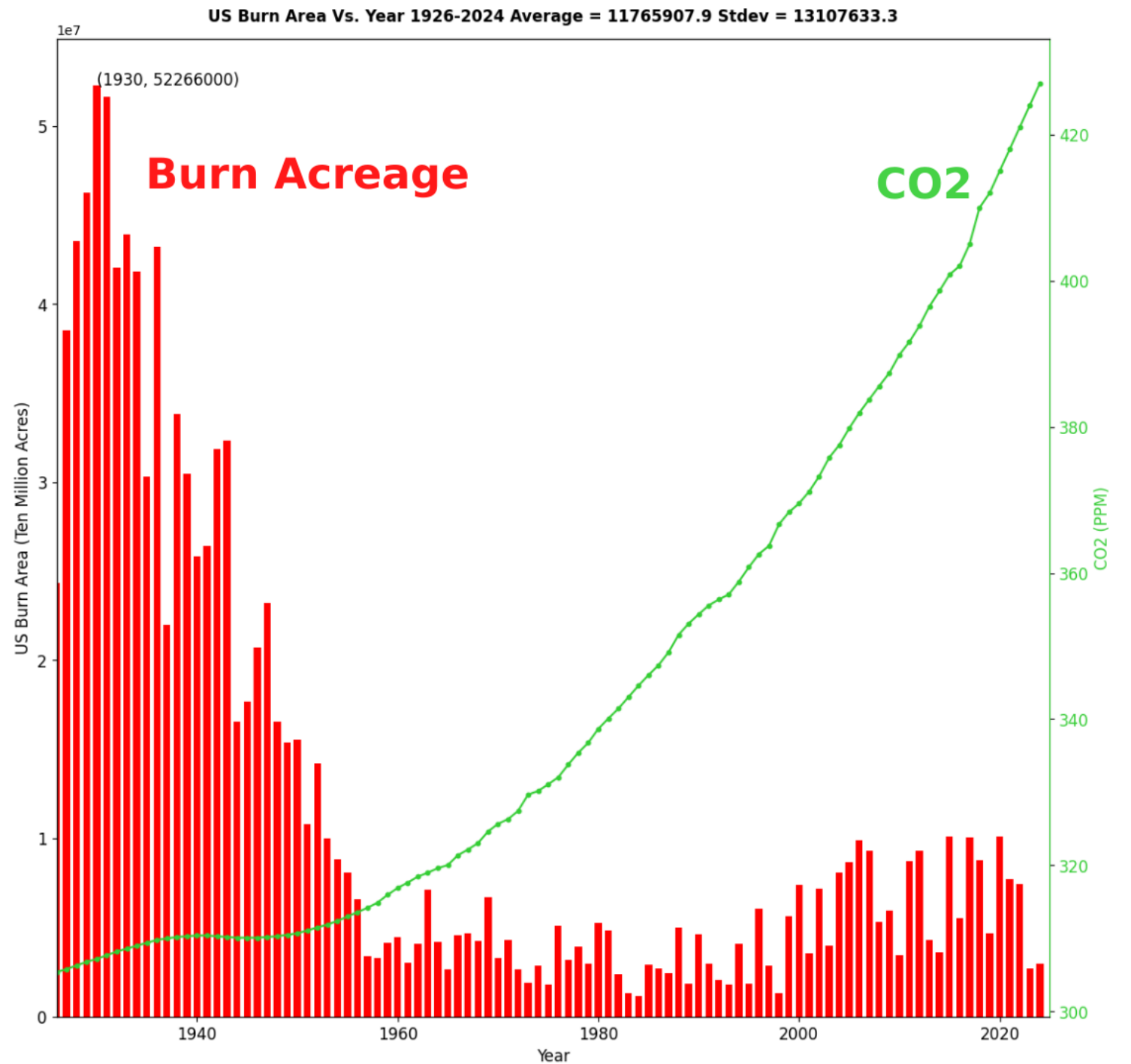


Successive “corrections” of temperatures systematically cool the past and warm the present, destroying the cyclic nature of the Uncorrupted original data sets.





<https://realclimatescience.com/2024/07/summer-heat-and-burn-area/>



Theft

<https://joannenova.com.au/2024/10/just-like-that-world-bank-bureaucrats-lost-track-of-24-to-41-billion-fighting-climate-change/>

World Bank bureaucrats lost track of at least \$24B in funds fighting climate change: 'Could be twice or 10 times more'

By James Franey, *New York Post*

By Jo Nova

The World Bank is the largest climate funding multinational blob on Earth, and the world is about to end, the oceans are about to boil, but no one at the World Bank can explain where billions of dollars worth of the Earth saving funds have ended up. It's almost as if no one there gives a toss about the climate. Indeed, if the World Bank was a giant parasitic squid feeding off the taxpayers of the West, it might look just like this.



**ACCOUNTABLE TO
OURSELVES AND THE
PEOPLE WE SERVE**



Trust is crucial to our work. We strive to be open, transparent, and participatory.

The World Bank — **Who We Are**. As they say — we're "Accountable to ourselves".

Good News: Modern societies, using inexpensive fossil fuels successfully provide for their newborns, young children.

Our World
in Data

This scatter plot illustrates the relationship between per capita emissions (x-axis) and child mortality (y-axis) for various countries. The x-axis, labeled 'Per capita emissions', is on a logarithmic scale with major ticks at 0.1 t, 1 t, and 10 t. The y-axis, labeled 'Child mortality', is also on a logarithmic scale with major ticks at 0.2%, 0.5%, 1%, 2%, 5%, and 10%. Data points are color-coded by region: Africa (purple), Asia (teal), Europe (blue), North America (orange), Oceania (brown), and South America (red). The plot shows a clear negative correlation, with countries having higher per capita emissions generally experiencing lower child mortality rates. A legend on the right side of the plot identifies the regions: Africa, Asia, Europe, North America, Oceania, and South America.

Country	Region	Per capita emissions (t)	Child mortality (%)
Central African Republic	Africa	0.12	10.5
Democratic Republic of Congo	Africa	0.15	8.5
Burundi	Africa	0.08	5.5
Ethiopia	Africa	0.18	4.5
Eritrea	Africa	0.22	3.5
Gambia	Africa	0.25	4.5
Guinea	Africa	0.35	10.5
Afghanistan	Asia	0.28	7.5
Bangladesh	Asia	0.55	3.5
Bhutan	Asia	1.2	2.5
Lebanon	Asia	4.5	2.0
Turkmenistan	Asia	10.5	4.5
Qatar	Asia	15.5	0.55
Bahrain	Asia	12.5	0.75
Anguilla	North America	10.5	0.65
Antigua and Barbuda	North America	12.5	1.0
Bahamas	North America	4.5	1.5
Chile	South America	3.5	0.75
Uruguay	South America	2.5	0.75
Albania	Europe	1.5	1.0
Croatia	Europe	4.5	0.55
Belgium	Europe	8.5	0.45
Czechia	Europe	10.5	0.35
Estonia	Europe	12.5	0.25
Andorra	Europe	4.5	0.35
Ukraine	Europe	3.5	0.95
Marshall Islands	Oceania	3.5	3.5
Algeria	Africa	3.5	2.5
Congo	Africa	1.5	4.5
Lesotho	Africa	1.2	8.5
Benin	Africa	0.8	9.5
Equatorial Guinea	Africa	3.5	8.5
Ghana	Africa	0.8	4.5
Cape Verde	Africa	1.2	1.5
Honduras	North America	1.2	1.8
Brazil	South America	2.5	1.5
Botswana	Africa	2.5	4.5
Marshall Islands	Oceania	3.5	3.5
Algeria	Africa	3.5	2.5
Lebanon	Asia	4.5	2.0
Bahamas	North America	4.5	1.5
Chile	South America	3.5	0.75
Uruguay	South America	2.5	0.75
Albania	Europe	1.5	1.0
Croatia	Europe	4.5	0.55
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Algeria	Africa	3.5	2.5
Lebanon	Asia	4.5	2.0
Bahamas			

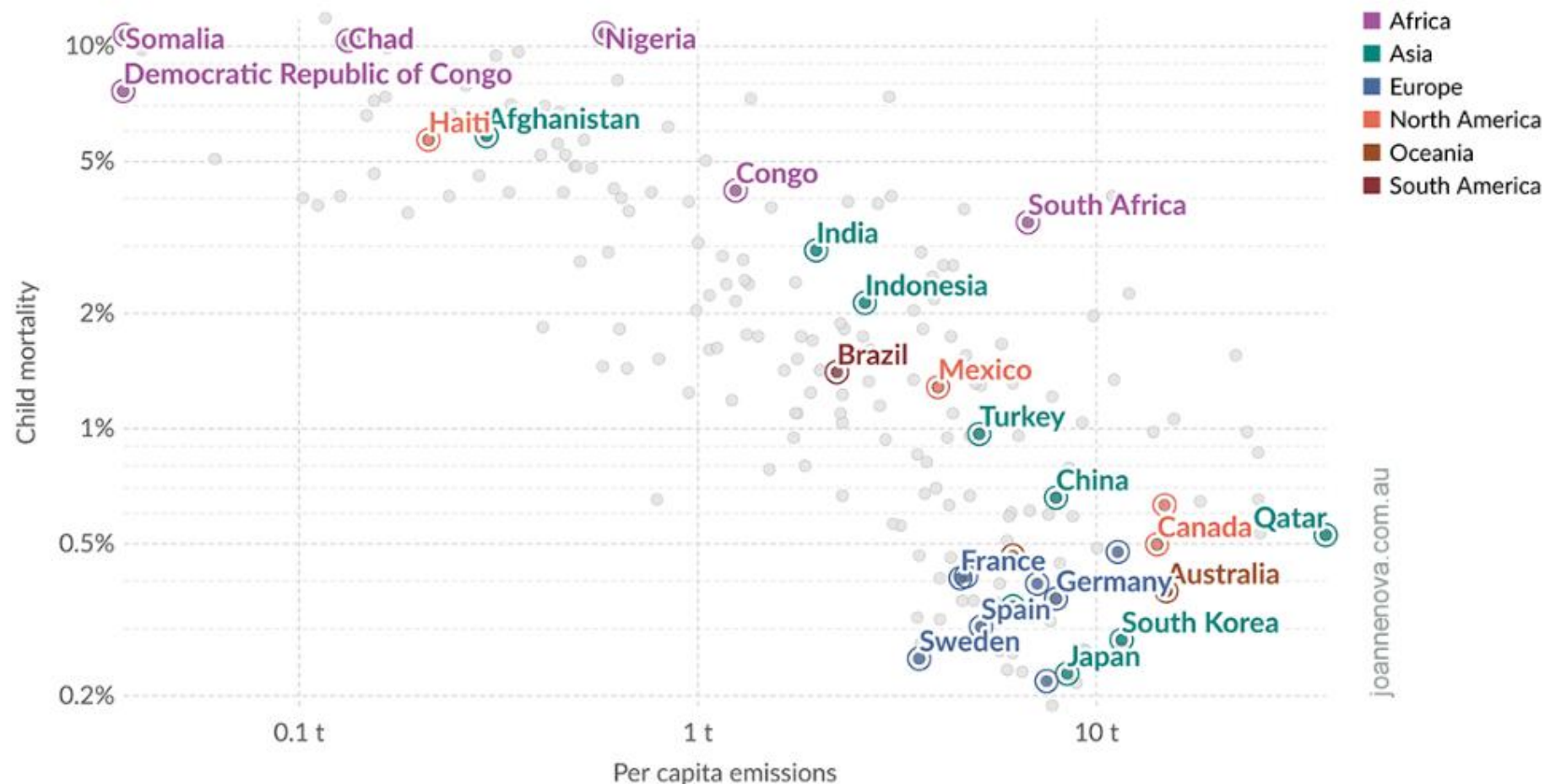
OurWorldinData.org/worlds-energy-problem | CC BY

Child Mortality falls as CO2 emissions rise per capita. | OWID

Child mortality vs. CO₂ emissions per capita, 2022

Our World
in Data

The number of children who die before reaching the age of five per 1,000 live births vs average carbon dioxide (CO₂) emissions per capita measured in tonnes per year.



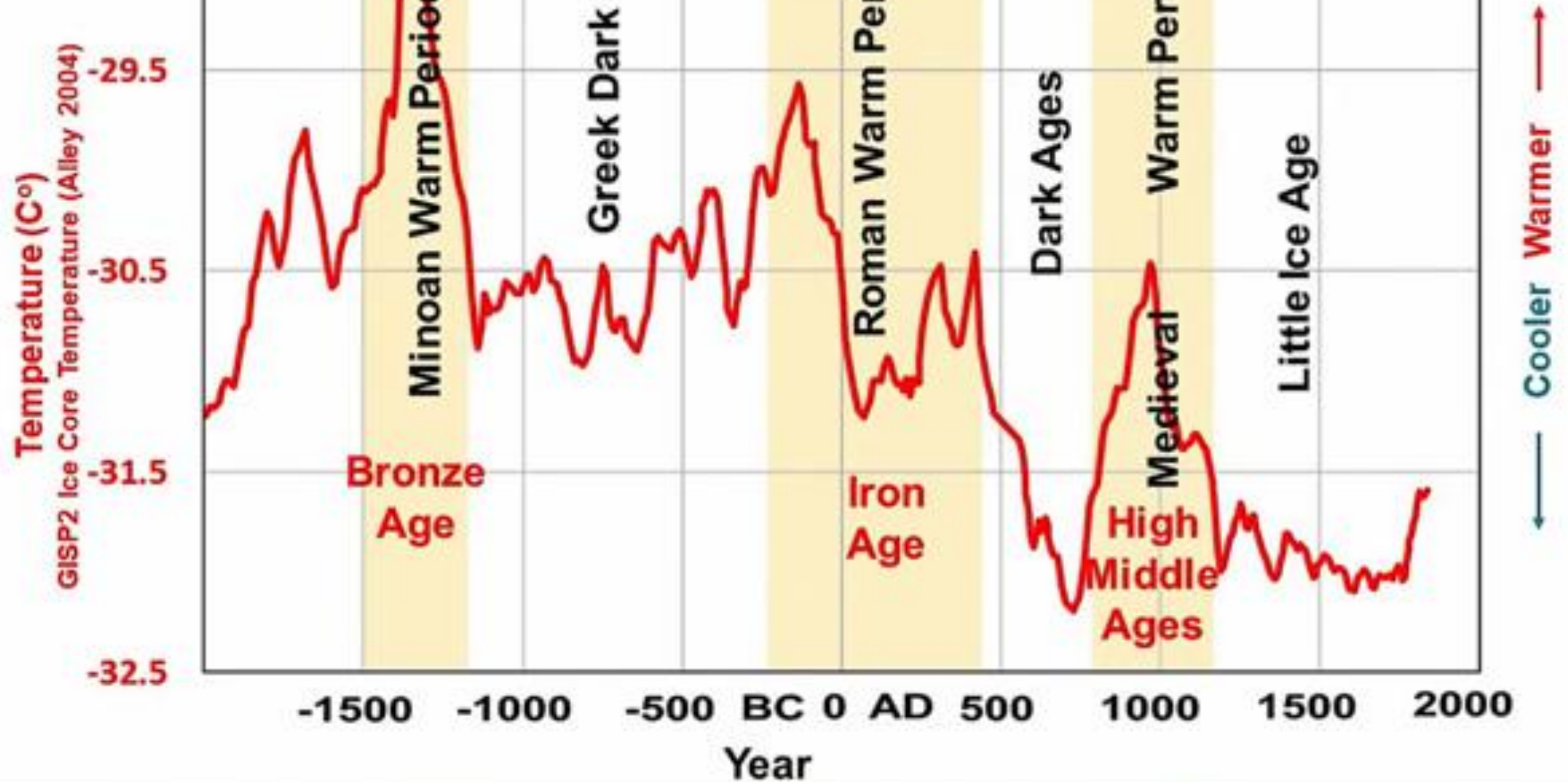
Data source: United Nations Inter-agency Group for Child Mortality Estimation (2024); Global Carbon Budget (2023); Population based on various sources (2023)

OurWorldinData.org/worlds-energy-problem | CC BY

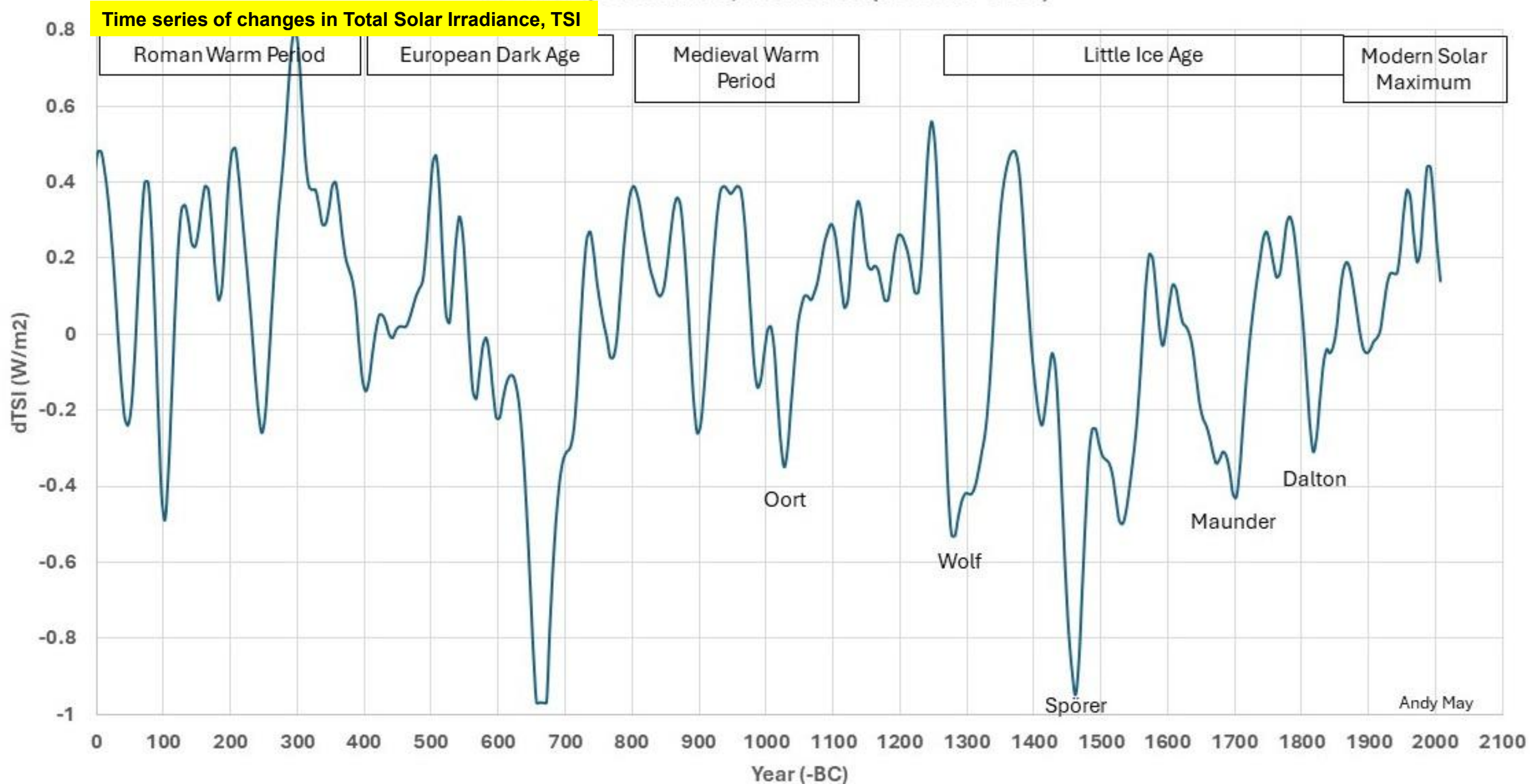
Careful Study of Earth Science and Earth History
Reveals No Truth in Climate Alarmist Stories

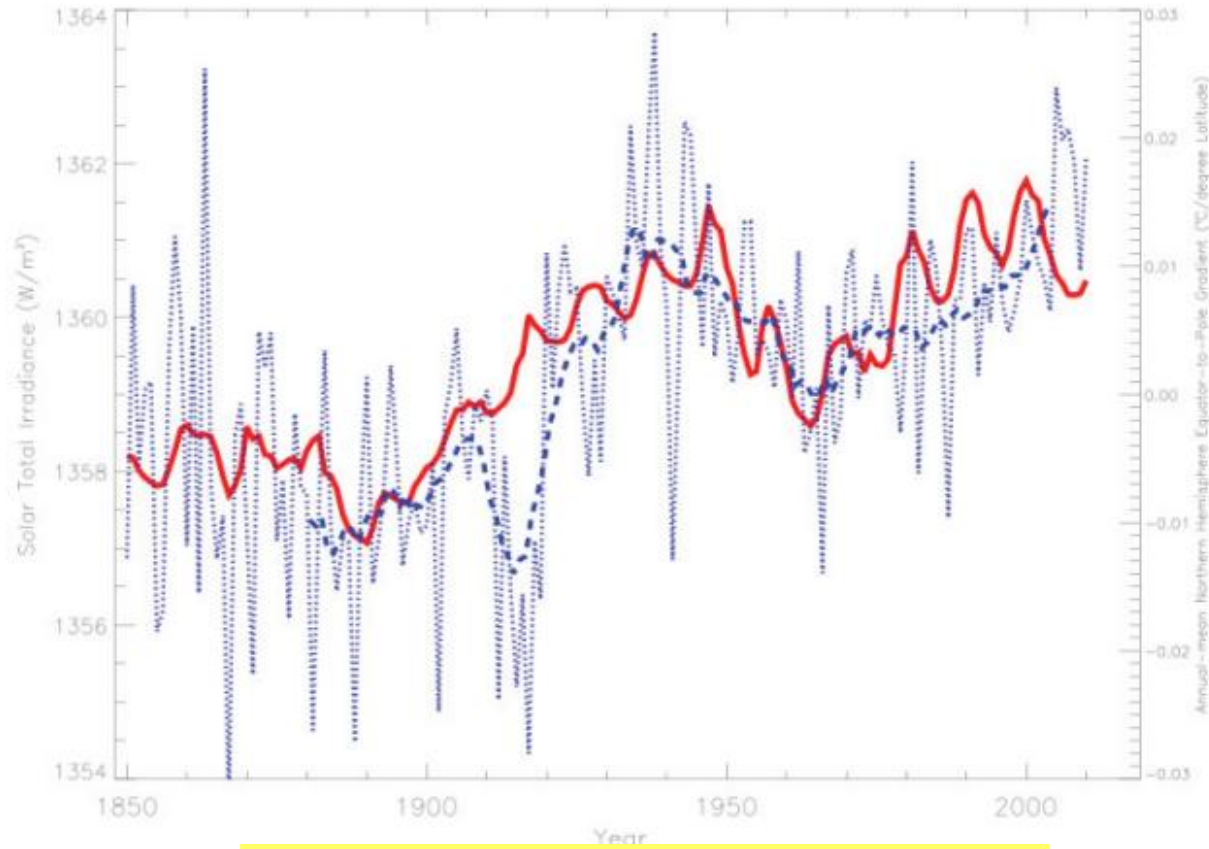
Ice Core data reveal Glacial and Interglacial periodicities

<https://youtu.be/I2qpRzOhxNA>

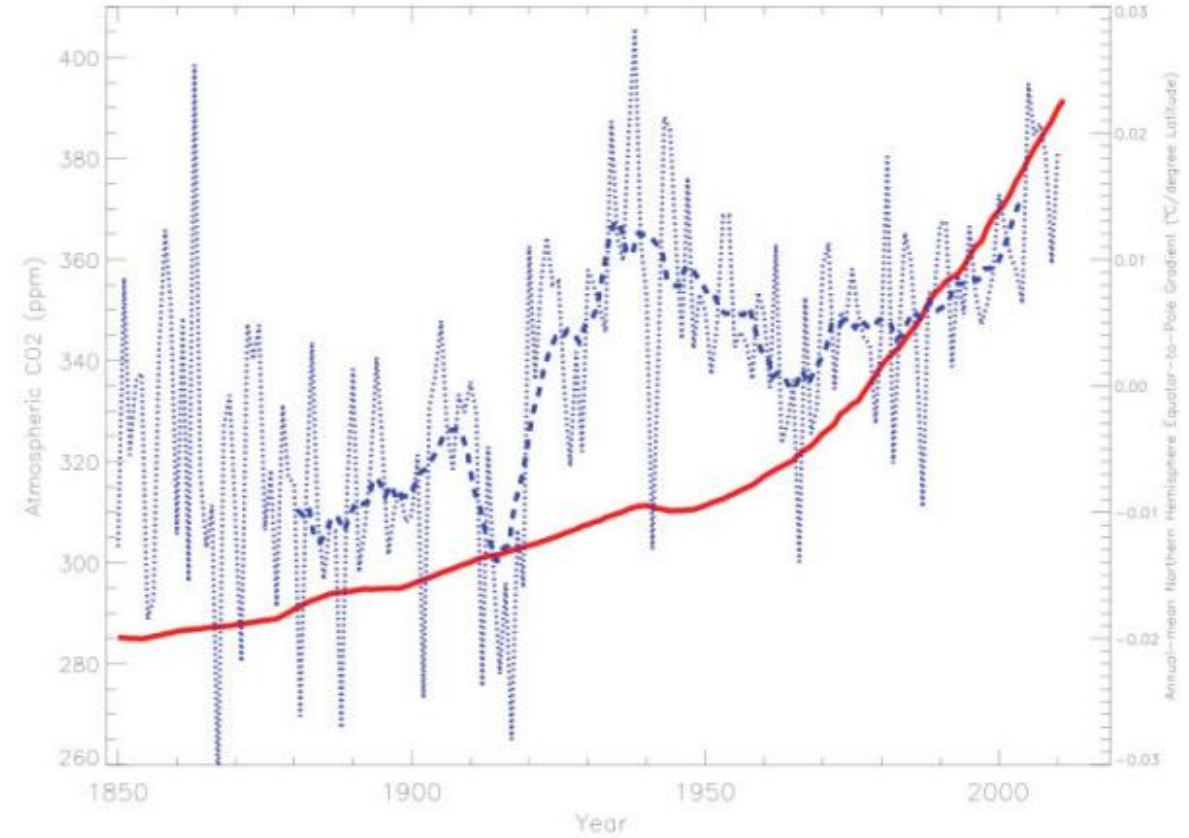


Delta TSI, Steinhilber, et al. 2009 (Ice Core 10Be)





TSI and Temperature (Red) vs Time



TSI and <CO2> (Red) vs Time

Figure 3: Temperature changes vs. changes in the Sun's energy output and changes in atmospheric carbon dioxide concentrations. The graph on the left shows 20th century temperature changes in blue vs. changes in the Sun's energy output in red. The graph on the right shows 20th century changes in blue vs. changes in atmospheric carbon dioxide emissions in red.

Holocene temperatures from Ice Cores, the last 10,000 years.

Top graphic is from Greenland's GISP2 ice core, in Red

Red horizontal in GISP2 line is ice temp of -30.50C

Bottom graphic is from Antarctica, Vostok ice core, in Blue

Red Horizontal line in Vostok Core, present temperature.

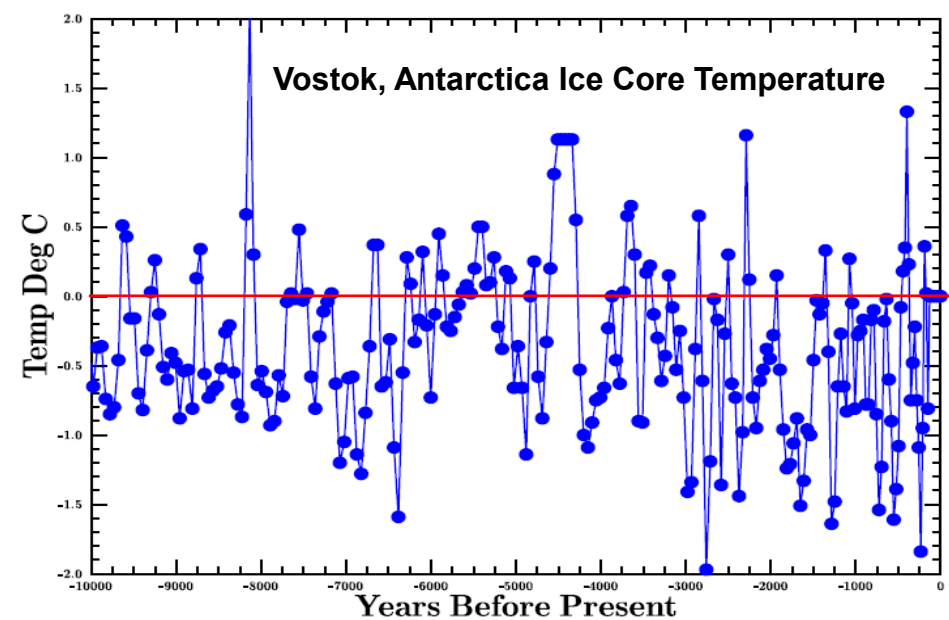
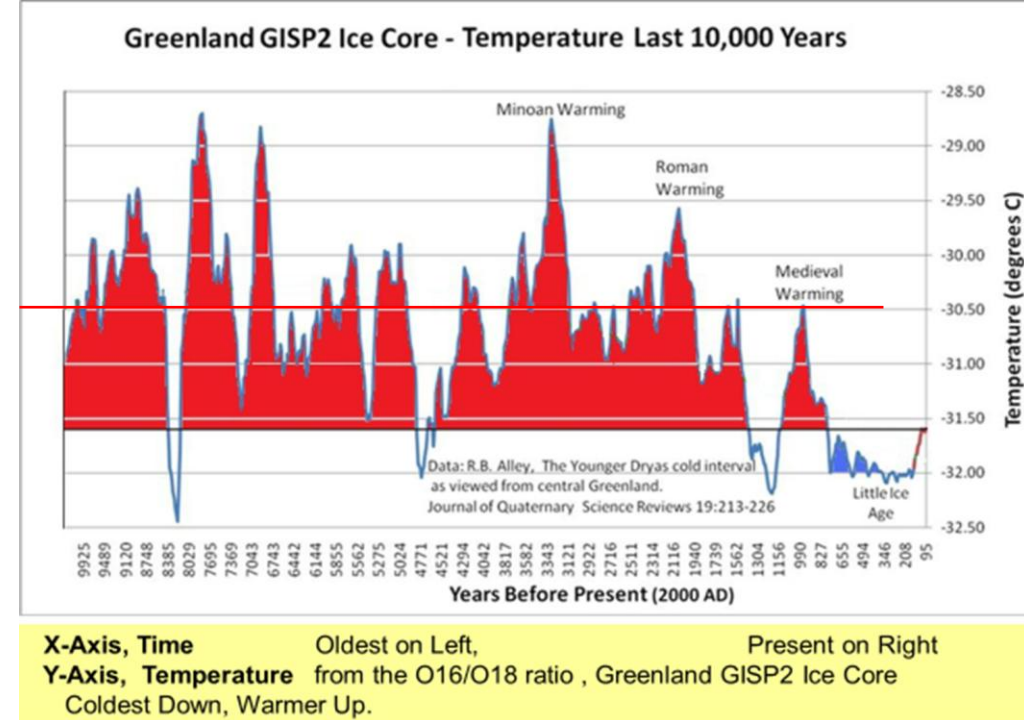
Both plots show a +/- 2C deviation from the red line.

Both plots show that a 1.5C rise from the Little Ice Age minimum is nothing to be concerned about, rather celebrated.

Data show improvements as we warm from the Little Ice Age.

“The Human Condition is improving. Rapidly.”

The red line axes in each plot were chosen to show a line of departure for the +/-2C temperature variations which have occurred over the past 10,000 years, one from the ice cores of each hemisphere.

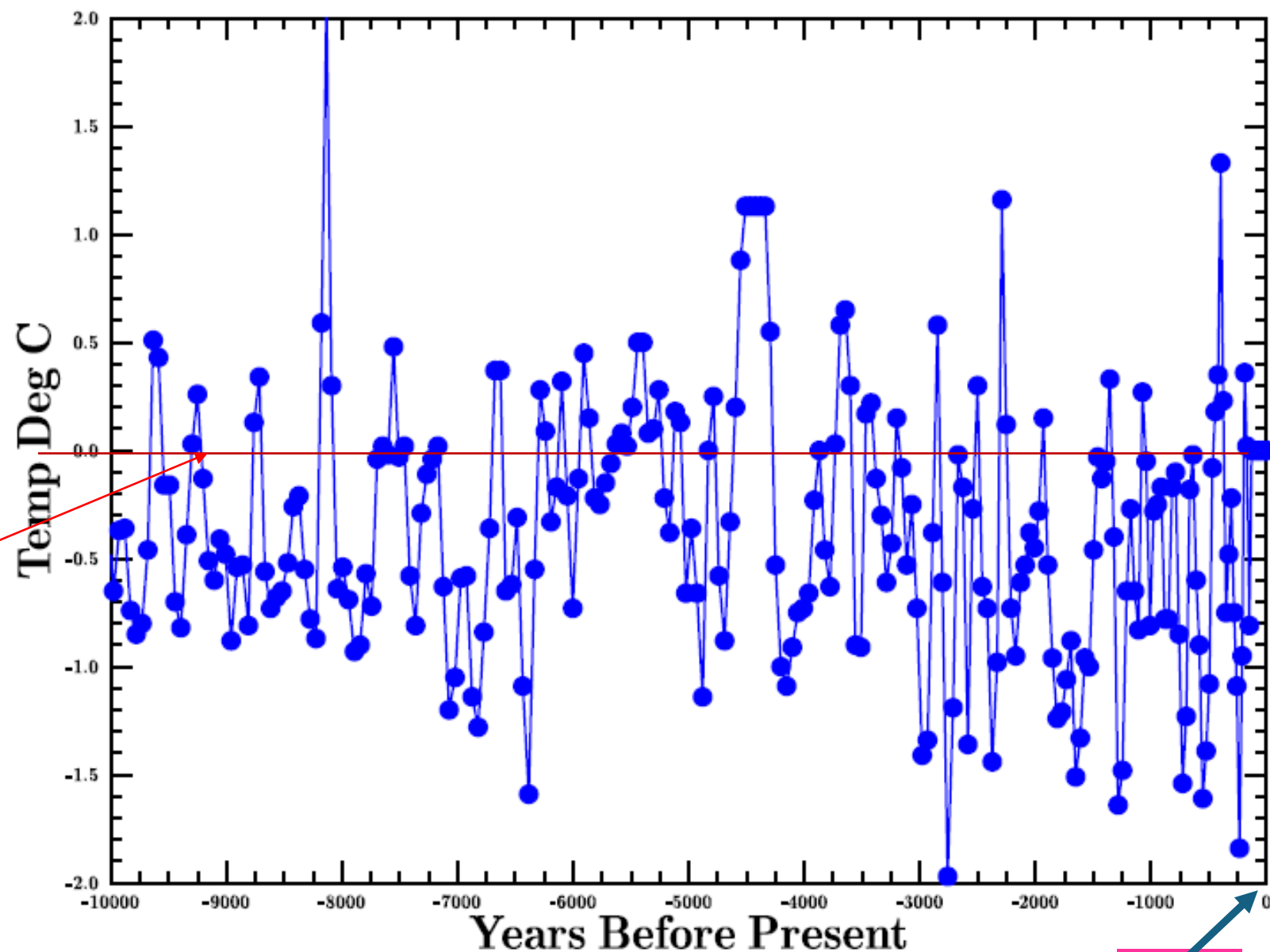


These are the temperatures from the Vostok Ice Cores, showing the last 10,000 years.

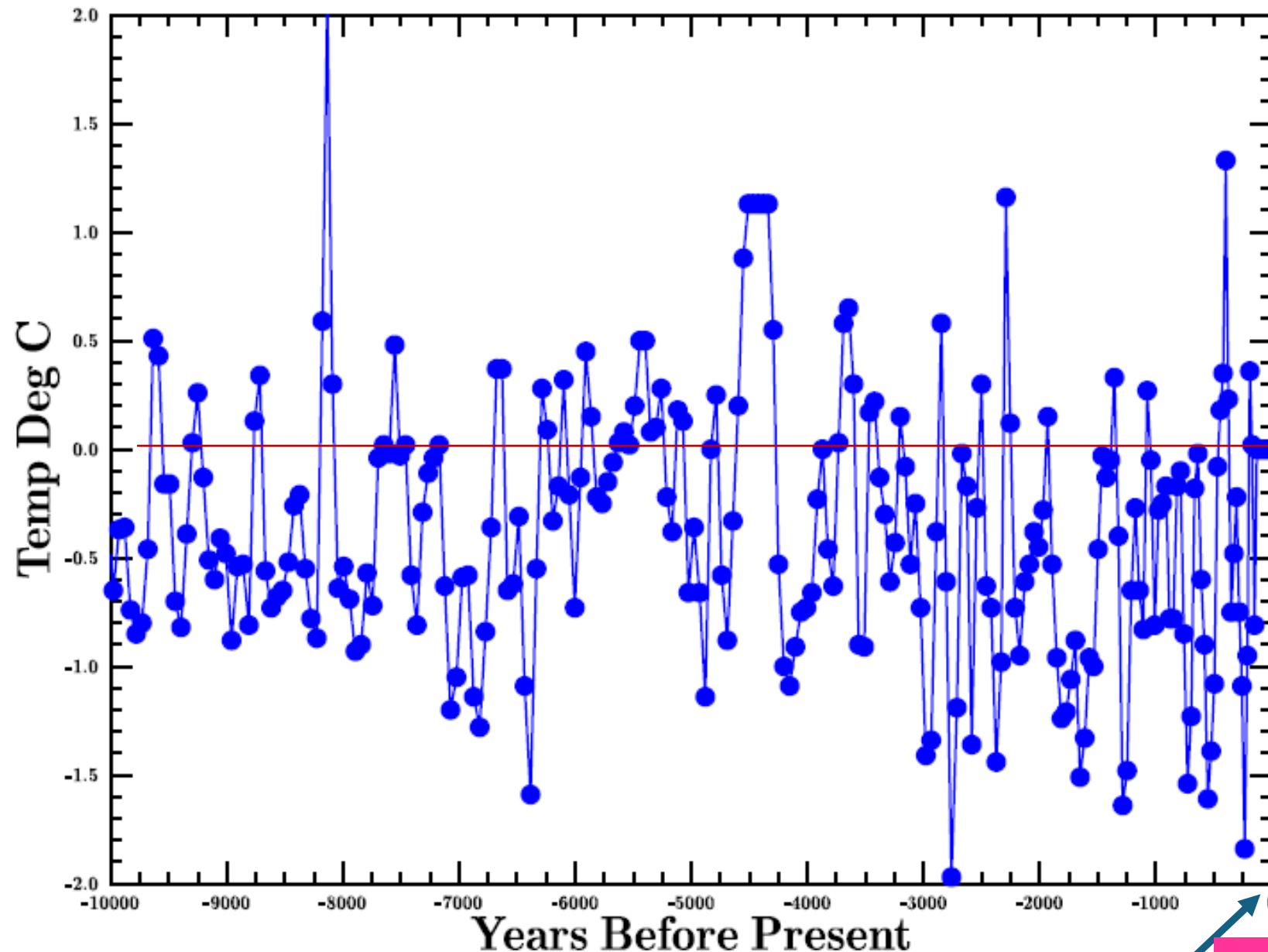
It is difficult to see the justification for declarations of “climate crisis,” “climate emergency,” and cries of “existential threat.”

In fact, there is no threat from human-caused CO₂-fueled global warming.

Present temperature is plotted as 0.0C, the temperature base line.



NOW



Question:

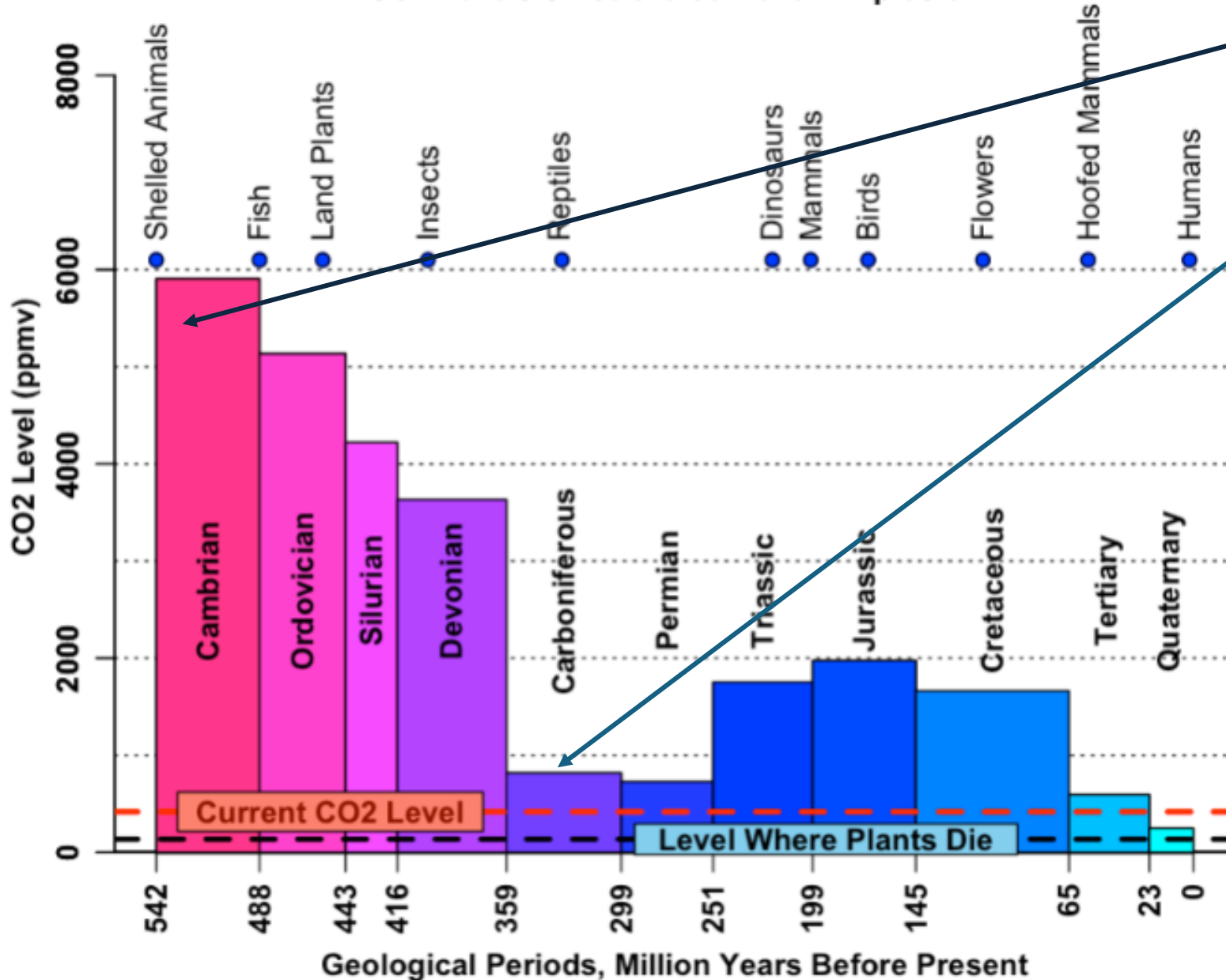
How can the Alarmists be so certain that THIS LATEST temperature fluctuation is a CATASTROPHIC ONE?

Question answers itself.

There is nothing unusual about the present temperature or rate of change of temperature.

NOW

For Folks Who Think Increasing CO2 Will Cause Extinctions CO2 Levels Since the Cambrian Explosion



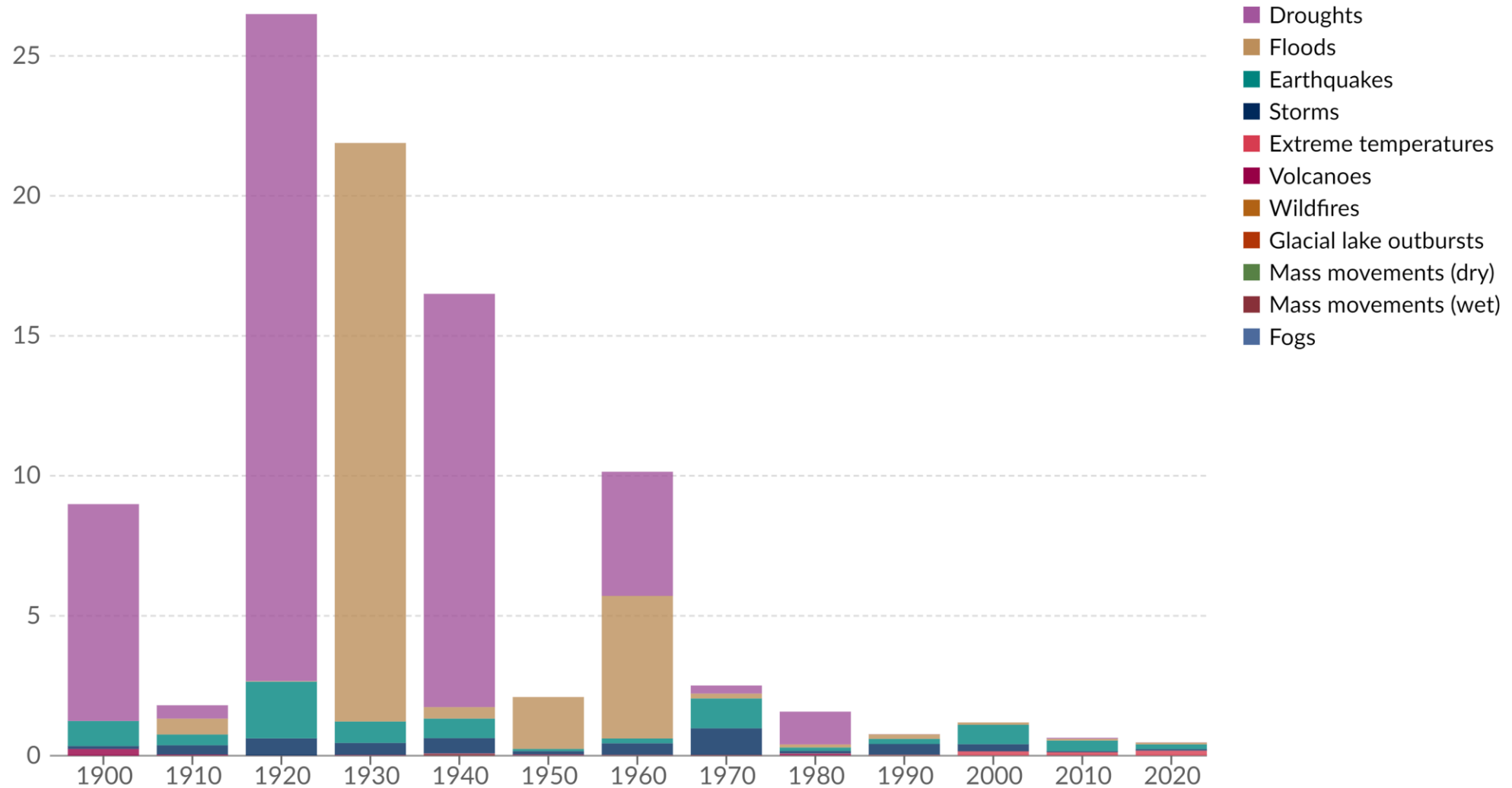
In the Cambrian, there was an explosion of Trilobites and Brachiopods, the shelled animals, across the oceans.

In the USA, we denote the geologic time periods when great coal-forming swamps covered the land masses as the **Mississippian** (359-323 Million Years Ago) and **Pennsylvanian** (323-299 MYA) Periods.

In Europe, especially, this is called the **Carboniferous**, 359-299 MYA.

Decadal average: Death rates from natural disasters, World

Death rates are measured as the number of deaths per 100,000 people.



Data source: EM-DAT, CRED / UCLouvain (2024); Population based on various sources (2023)

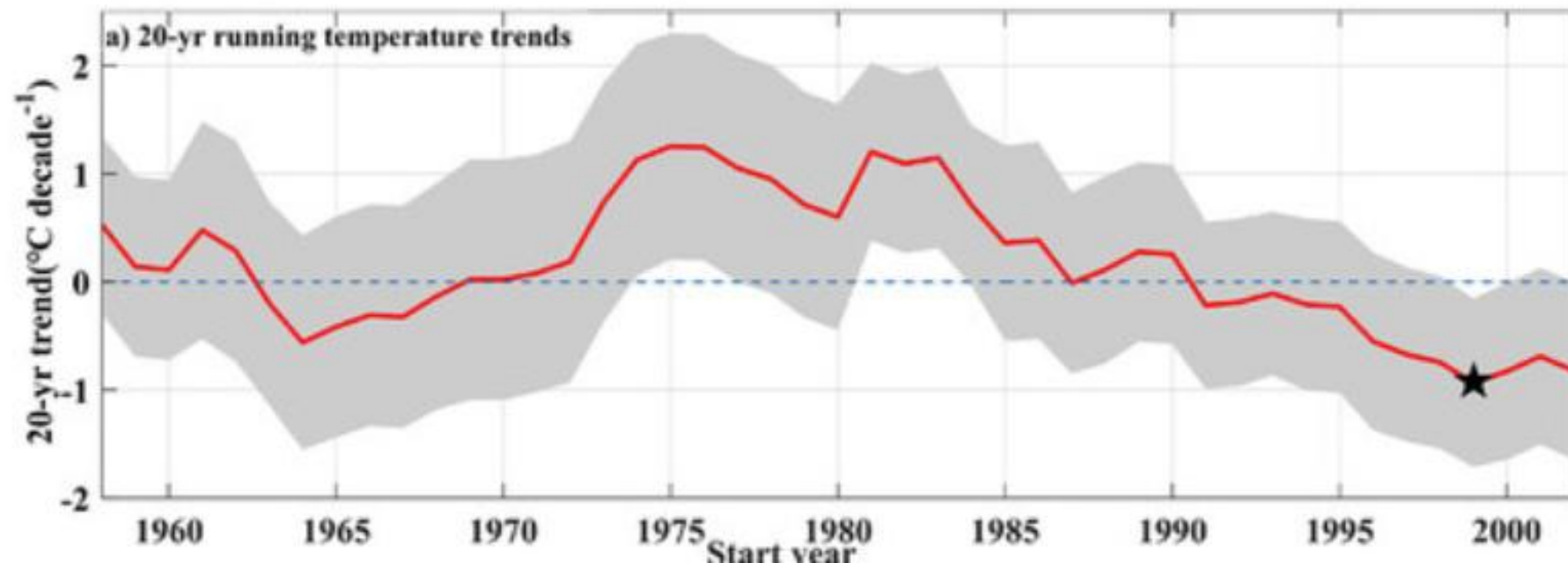
Note: Data includes disasters recorded up to April 2024.

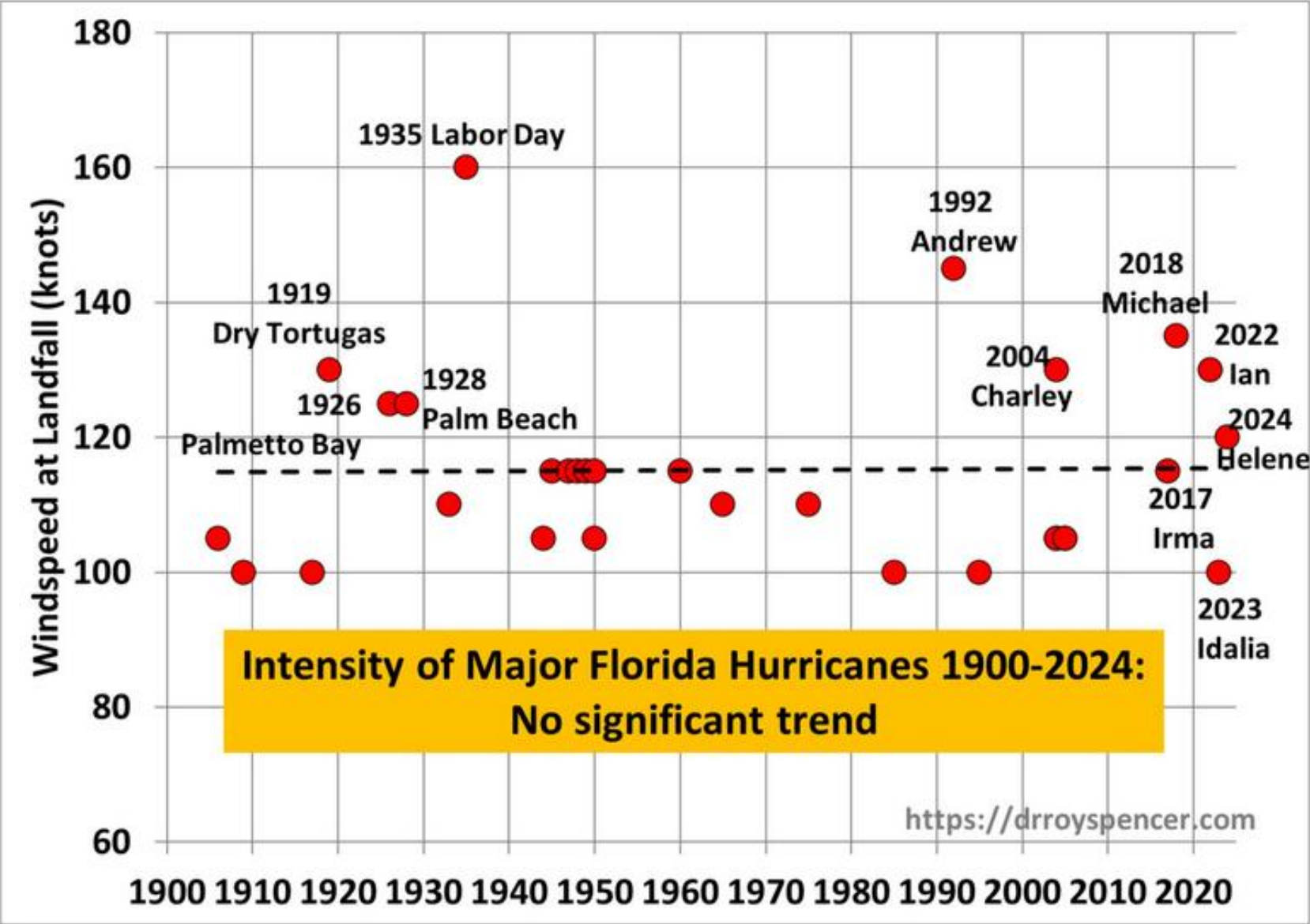
OurWorldInData.org/natural-disasters | CC BY

Antarctica Is Colder, Icier Now Than Any Time In 5000 Years. The Last Warm Period Was 1000 Years Ago.

By Kenneth Richard on 15. April 2024

More evidence emerges that Antarctica has undergone rapid glacier and sea ice expansion in recent centuries, in line with the long-term and recent Antarctic cooling trend.

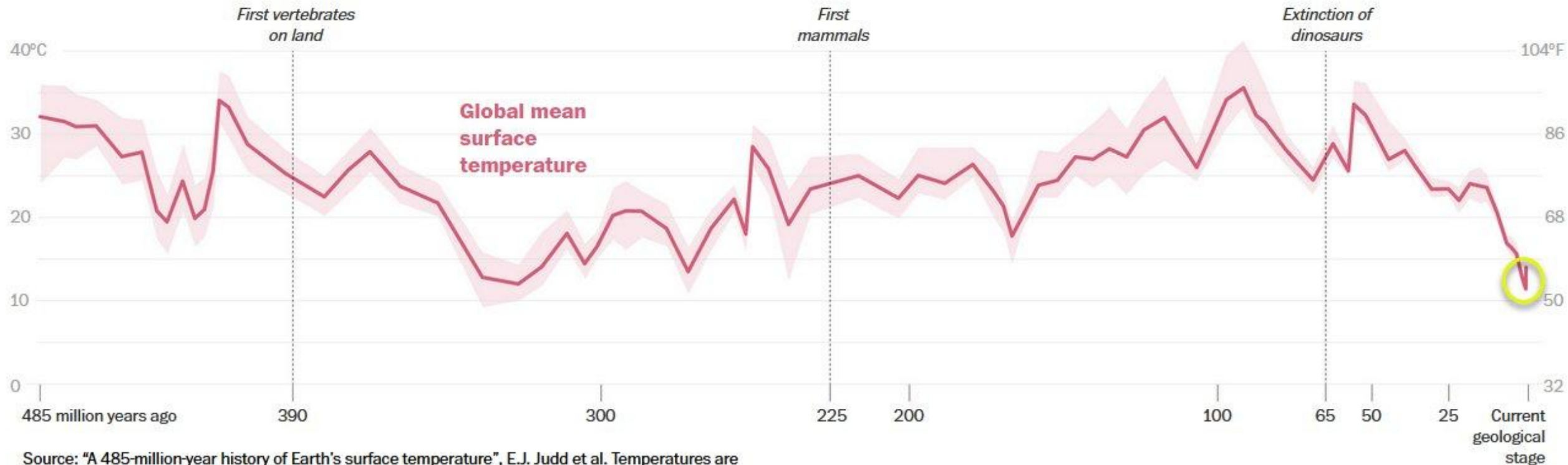




Scientists have captured Earth's climate over the last 485 million years. Here's the surprising place we stand now.

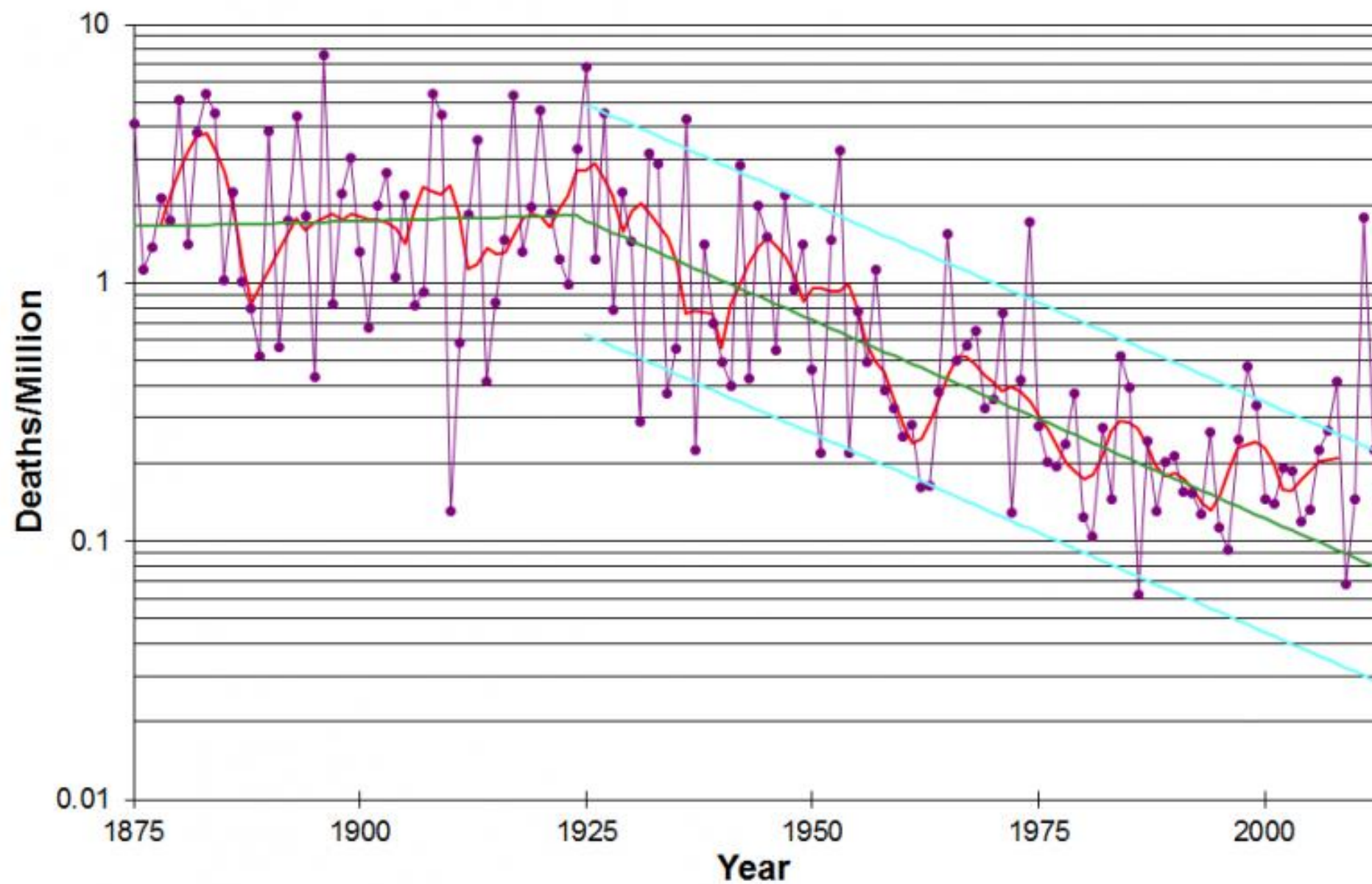
An effort to understand Earth's past climates uncovered a history of wild temperature shifts and offered a warning on the consequences of human-caused warming.

🔊 10 min ➦ 📌 1321



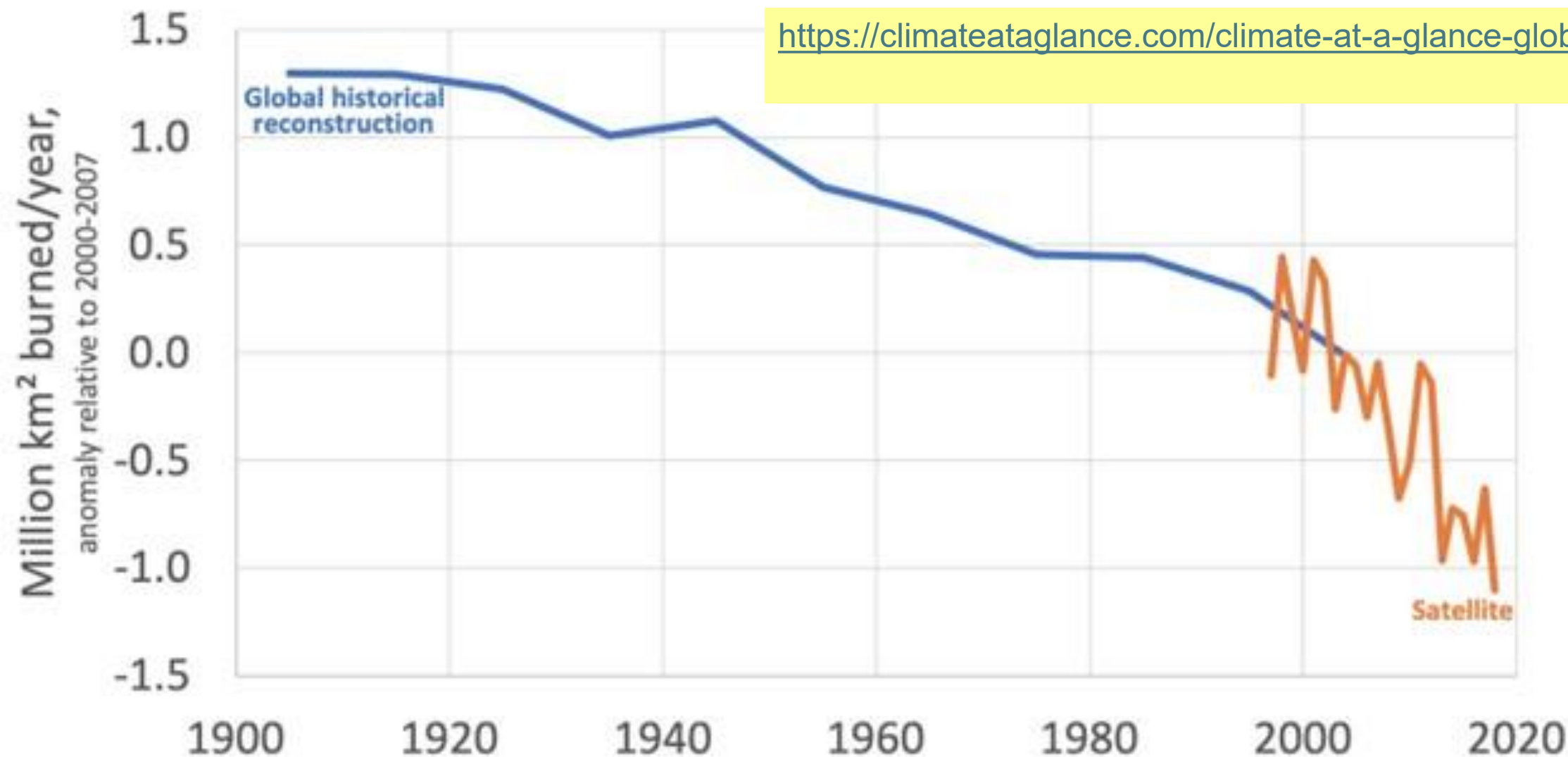
Source: "A 485-million-year history of Earth's surface temperature", E.J. Judd et al. Temperatures are averages for geological periods. Shaded area shows values with a 68% probability.

US Tornado Deaths/Million People



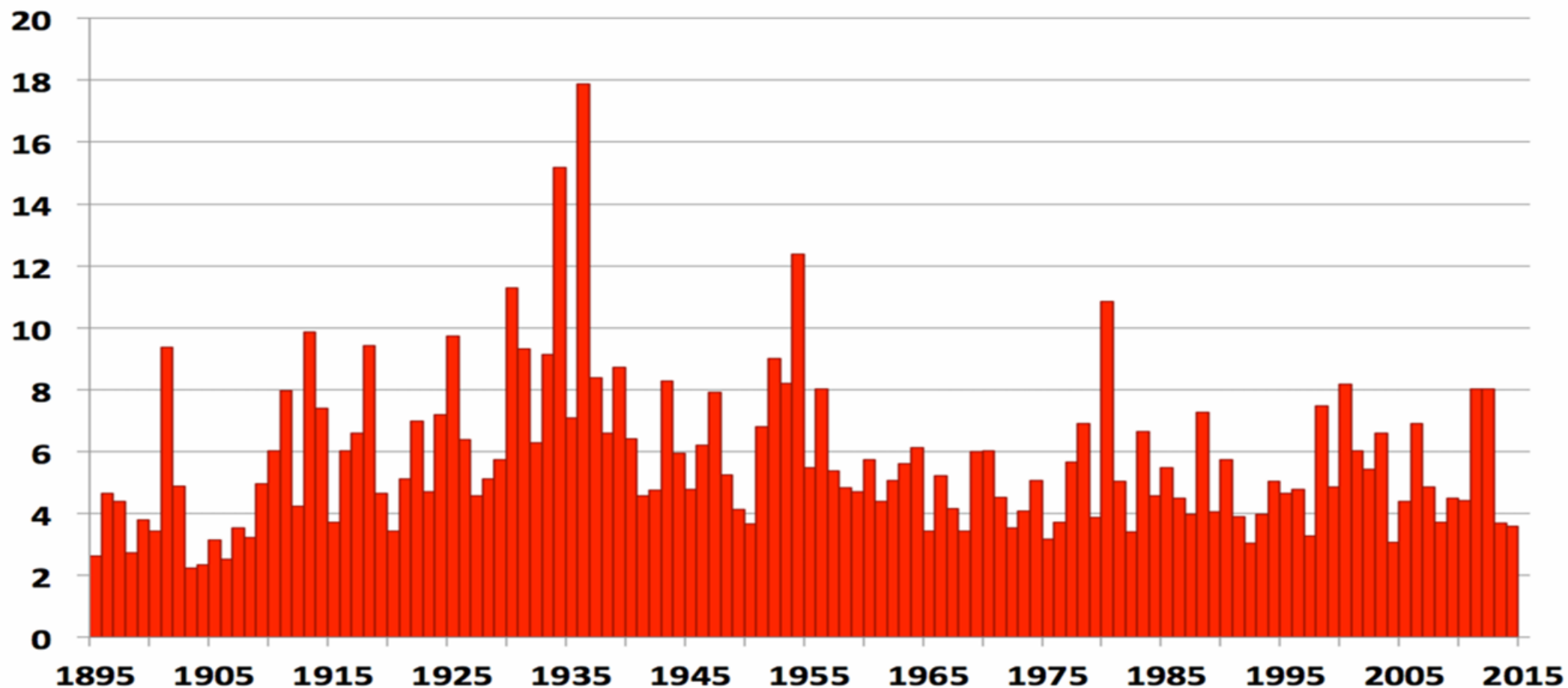
Global Burned Area 1901-2018

<https://climateataglance.com/climate-at-a-glance-global-wildfires>



1901-2007 from <https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1002/2013JG002532>, 1997-2016 from <http://globalfiredata.org/analysis.html>, and 2017-18 from <https://gwis.jrc.ec.europa.eu/static/gwis.statistics.portal/countries-estimates/NA>. While estimates of global burned area attempt to be internally consistent, they differ in scope, hence data here shown as difference from 2000-7. Model estimate for that period is 3.63Mkm², satellite estimate for period is 4.88Mkm². twitter.com/bjornlomborg

**Average Number of Daily High Temperatures at 982 USHCN
Stations exceeding 100°F per year 1895-2014**

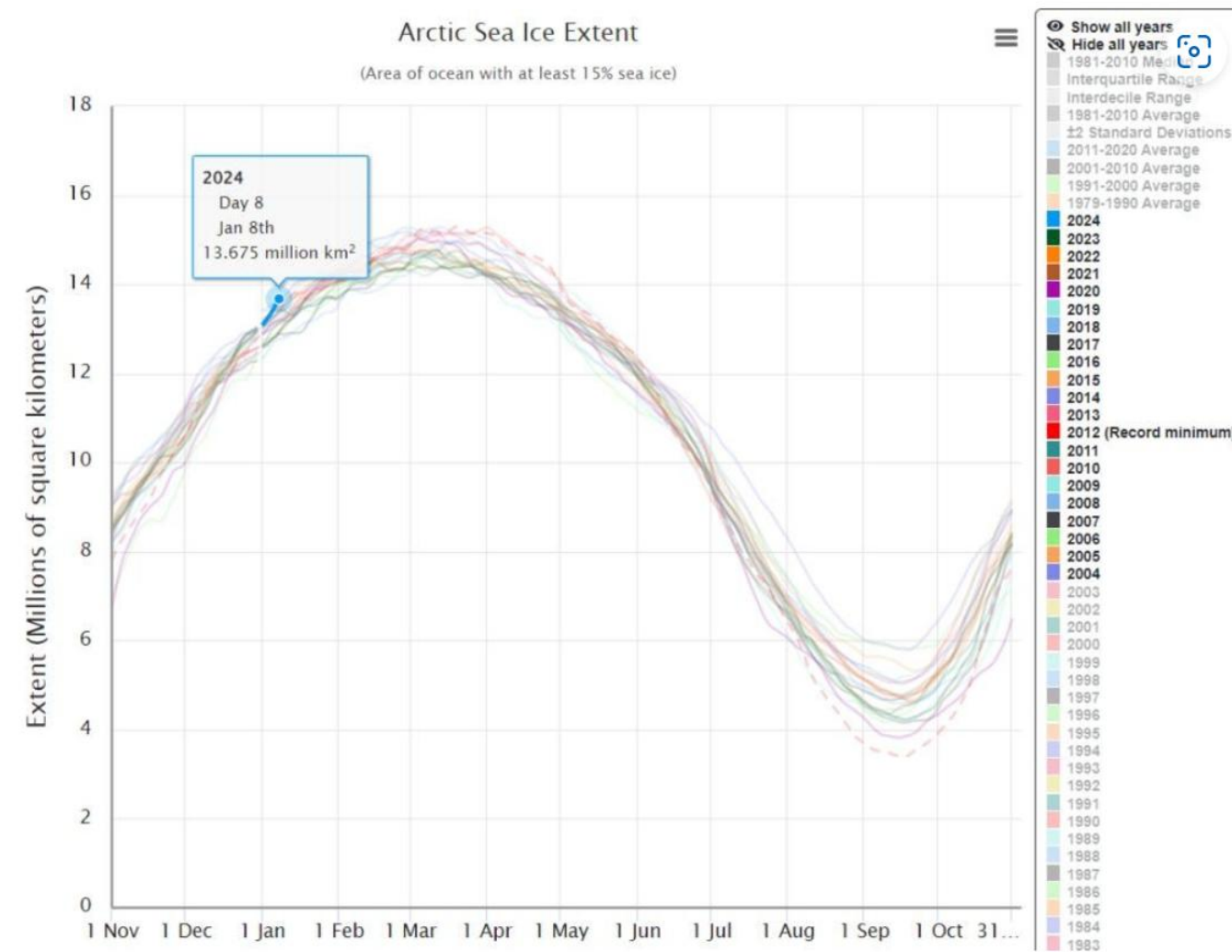


Above: Average number of days per-station in each year reaching or exceeding 100°F in 982 stations of the USHCN database (NOAA/NCEI, prepared by JRChristy).

<https://notrickszone.com/2024/01/14/for-this-time-of-year-arctic-sea-ice-has-risen-to-its-highest-level-in-21-years/>

Some alarmist scientists claim it's the hottest year on record, yet Arctic sea ice for this date stands at its highest level in 21 years.

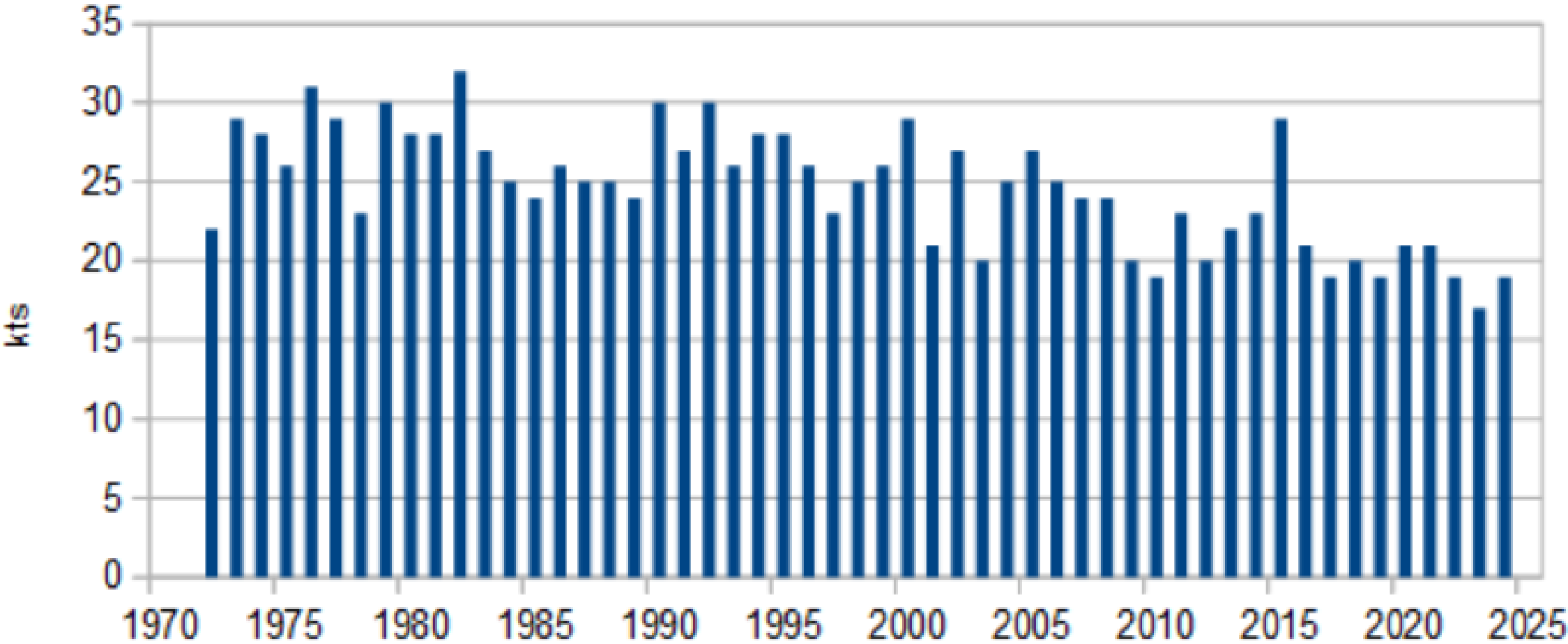
Hat-tip: [EIKE here](#).



Source: *NSIDC*

Daily Mean Windspeeds at Bingley - Highest per Year

1972 to Jan 2024

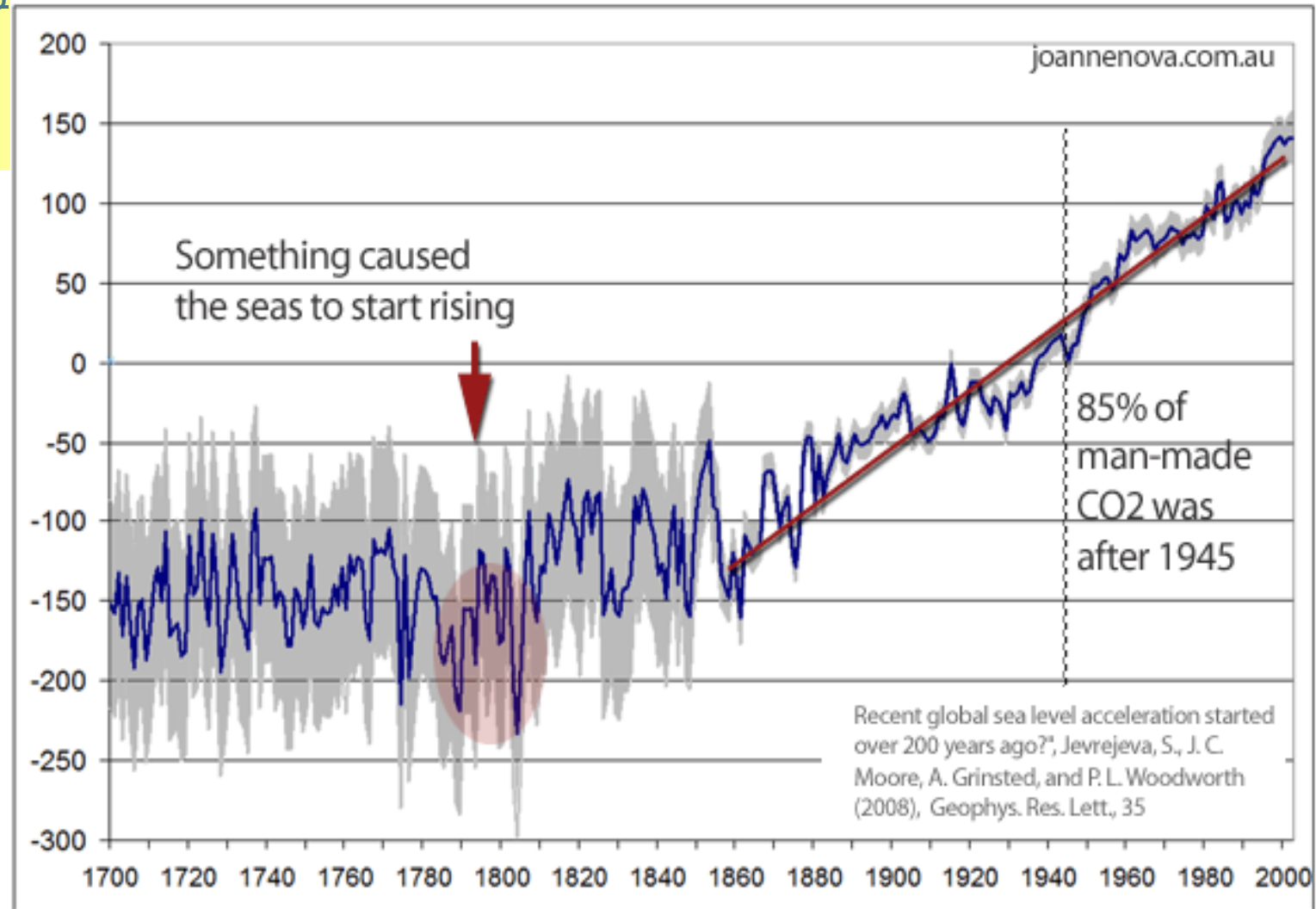


Sea Level measurements and history reveal no evidence that we control sea level or that modern sea level change rate is unusual.

Examining Sea Level History is Instructive.

<https://joannenova.com.au/2024/02/300-year-old-sponge-suggests-seas-were-warming-long-before-coal-power-and-cars-were-even-invented/>

Sea Levels have been rising for 200 years



Global Sea-Levels have been rising since before 1800, yet there were no coal fired power stations until the late 1800's. The rate seas have been rising has been surprisingly constant for the last 150 years. Significantly most human emissions of CO2 did not even occur until after 1945.

Here are some data on sea level from my old Geology Department at Rutgers, Lead Author, Department Head, Ken Miller.

Published by Woods Hole Oceanographic Institute <WHOI>
From 2005

Sea Levels are always changing, never in stasis.

REVIEW

The Phanerozoic Record of Global Sea-Level Change

Kenneth G. Miller,^{1*} Michelle A. Kominz,² James V. Browning,¹ James D. Wright,¹ Gregory S. Mountain,^{1,3} Miriam E. Katz,¹
Peter J. Sugarman,⁴ Benjamin S. Cramer,^{1,5} Nicholas Christie-Blick,³ Stephen F. Pekar^{3,6}

https://website.whoi.edu/gfd/wp-content/uploads/sites/14/2018/10/05-Miller.Science_47323.pdf

More Legible graphics follow.

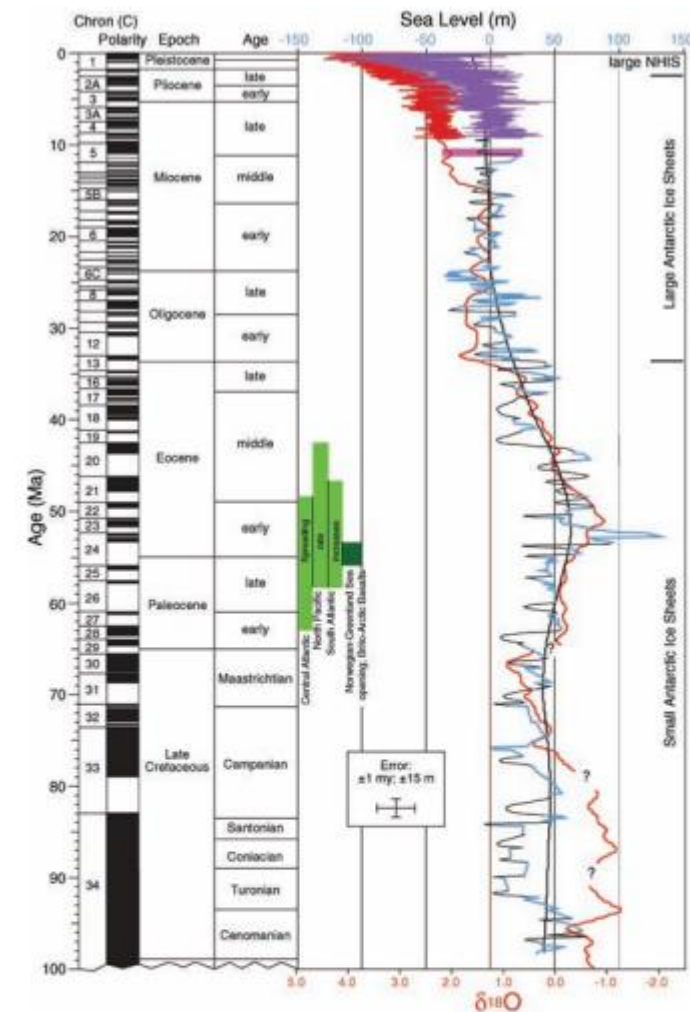
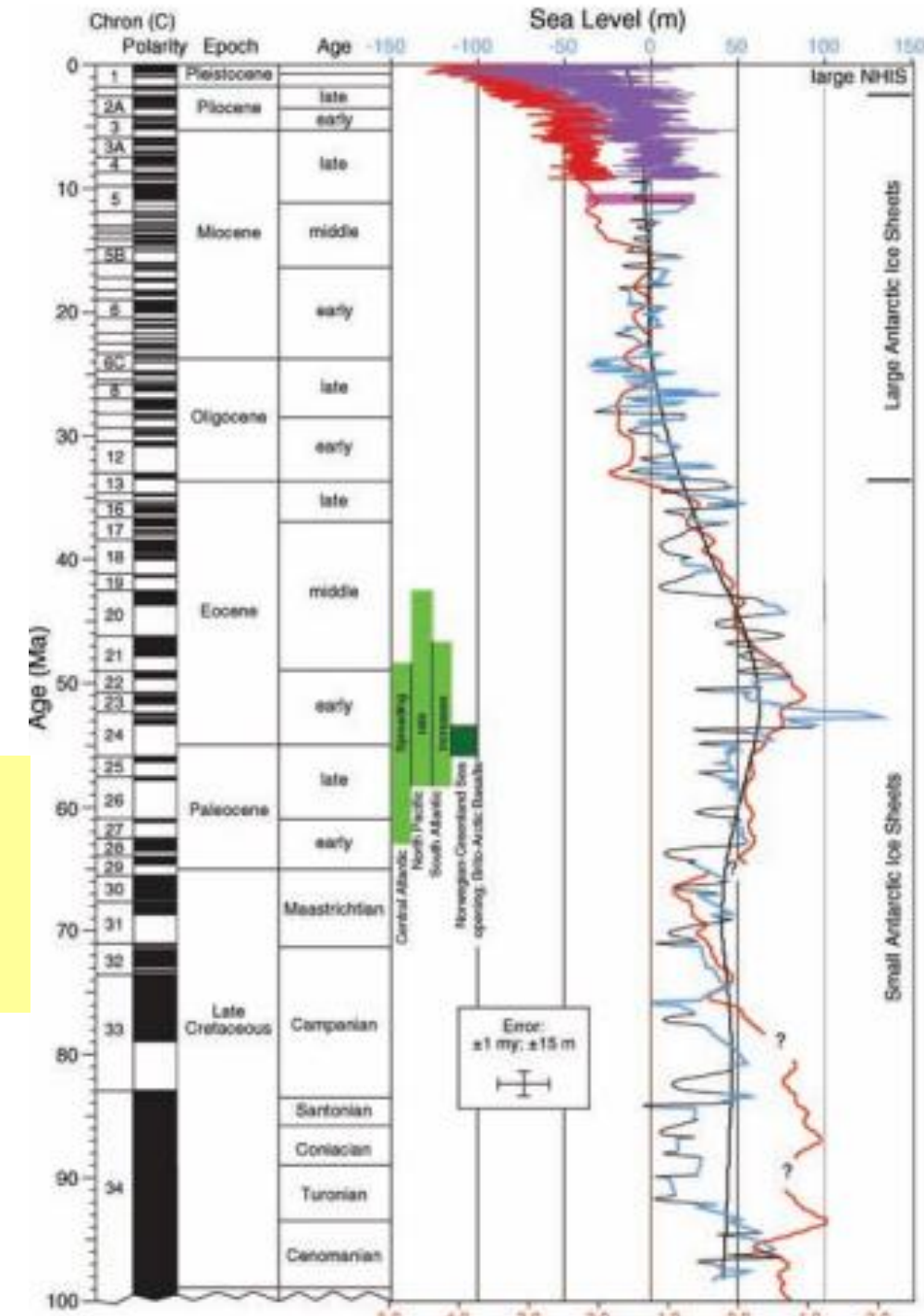


Fig. 3. Global sea level (light blue) for the interval 7 to 100 Ma derived by backstripping data (27). Global sea level (purple) for the interval 0 to 7 Ma derived from $\delta^{18}\text{O}$, shown in detail on Fig. 4. Shown for comparison is a benthic foraminiferal $\delta^{18}\text{O}$ synthesis from 0 to 100 Ma (red), with the scale on the bottom axis in ‰ [reported to *Cibicides* values (0.64‰ lower than equilibrium)]. The portion of the $\delta^{18}\text{O}$ curve from 0 to 65 Ma is derived using data from Miller (44) and fig. S1 recalibrated to the time scale of (71). The $\delta^{18}\text{O}$ curve from 65 to 100 Ma is based on the data compiled by Miller (36) calibrated to the time scale of (72). Data from 7 to 100 Ma were interpolated to a constant 0.1-My interval and smoothed with a 21-point Gaussian convolution filter using Igor Pro. Pink box at ~11 Ma is sea-level estimate derived from the Marion Plateau (57). Heavy black line is the long-term fit to our backstripped curve (23). Light green boxes indicate times of spreading rate increases on various ocean ridges (57). Dark green box indicates the opening of the Norwegian-Greenland Sea and concomitant extrusion of the Brito-Arctic basalts.

Fig. 3. Global sea level (light blue) for the interval 7 to 100 Ma derived by backstripping data (21). Global sea level (purple) for the interval 0 to 7 Ma derived from $\delta^{18}\text{O}$, shown in detail on Fig. 4. Shown for comparison is a benthic foraminiferal $\delta^{18}\text{O}$ synthesis from 0 to 100 Ma (red), with the scale on the bottom axis in ‰ [reported to *Cibicidoides* values (0.64‰ lower than equilibrium)]. The portion of the $\delta^{18}\text{O}$ curve from 0 to 65 Ma is derived using data from Miller (44) and fig. S1 recalibrated to the time scale of (71). The $\delta^{18}\text{O}$ curve from 65 to 100 Ma is based on the data compiled by Miller (36) calibrated to the time scale of (72). Data from 7 to 100 Ma were interpolated to a constant 0.1-My interval and smoothed with a 21-point Gaussian convolution filter using Igor Pro. Pink box at ~11 Ma is sea-level estimate derived from the Marion Plateau (51). Heavy black line is the long-term fit to our backstripped curve (23). Light green boxes indicate times of spreading rate increases on various ocean ridges (57). Dark green box indicates the opening of the Norwegian-Greenland Sea and concomitant extrusion of the Brito-Arctic basalts.



Please read Miller's caption, above and next.
Note how high sea level was in the Paleocene-Eocene Thermal Maximum, 52 MYA, 130 Meters higher or about 425 ft higher than today.

Fig. 3. Global sea level (light blue) for the interval 7 to 100 Ma derived by backstripping data (21). Global sea level (purple) for the interval 0 to 7 Ma derived from $\delta^{18}\text{O}$, shown in detail on Fig. 4. Shown for comparison is a benthic foraminiferal $\delta^{18}\text{O}$ synthesis from 0 to 100 Ma (red), with the scale on the bottom axis in ‰ [reported to *Cibicidoides* values (0.64‰ lower than equilibrium)]. The portion of the $\delta^{18}\text{O}$ curve from 0 to 65 Ma is derived using data from Miller (44) and fig. S1 recalibrated to the time scale of (71). The $\delta^{18}\text{O}$ curve from 65 to 100 Ma is based on the data compiled by Miller (36) calibrated to the time scale of (72). Data from 7 to 100 Ma were interpolated to a constant 0.1-My interval and smoothed with a 21-point Gaussian convolution filter using Igor Pro. Pink box at ~11 Ma is sea-level estimate derived from the Marion Plateau (51). Heavy black line is the long-term fit to our backstripped curve (23). Light green boxes indicate times of spreading rate increases on various ocean ridges (57). Dark green box indicates the opening of the Norwegian-Greenland Sea and concomitant extrusion of the Brito-Arctic basalts.

Fig. 4. Oxygen isotopic-based sea-level estimate for the past 9 My. Isotopic values are reported to equilibrium, with coretop and last glacial maximum values indicated with arrows and thin vertical green lines. Thin black line is raw data plotted versus the $\delta^{18}\text{O}$ scale (bottom). The purple line is the sea-level estimate (top scale), which is derived by correcting the $\delta^{18}\text{O}$ data by 0.5‰ due to a $\sim 2^\circ\text{C}$ cooling between 3.3 and 2.5 Ma (red line), scaling by $\delta^{18}\text{O}$ to sea level using a calibration of 0.1‰/10 m, and scaling the result by 0.8 (45).

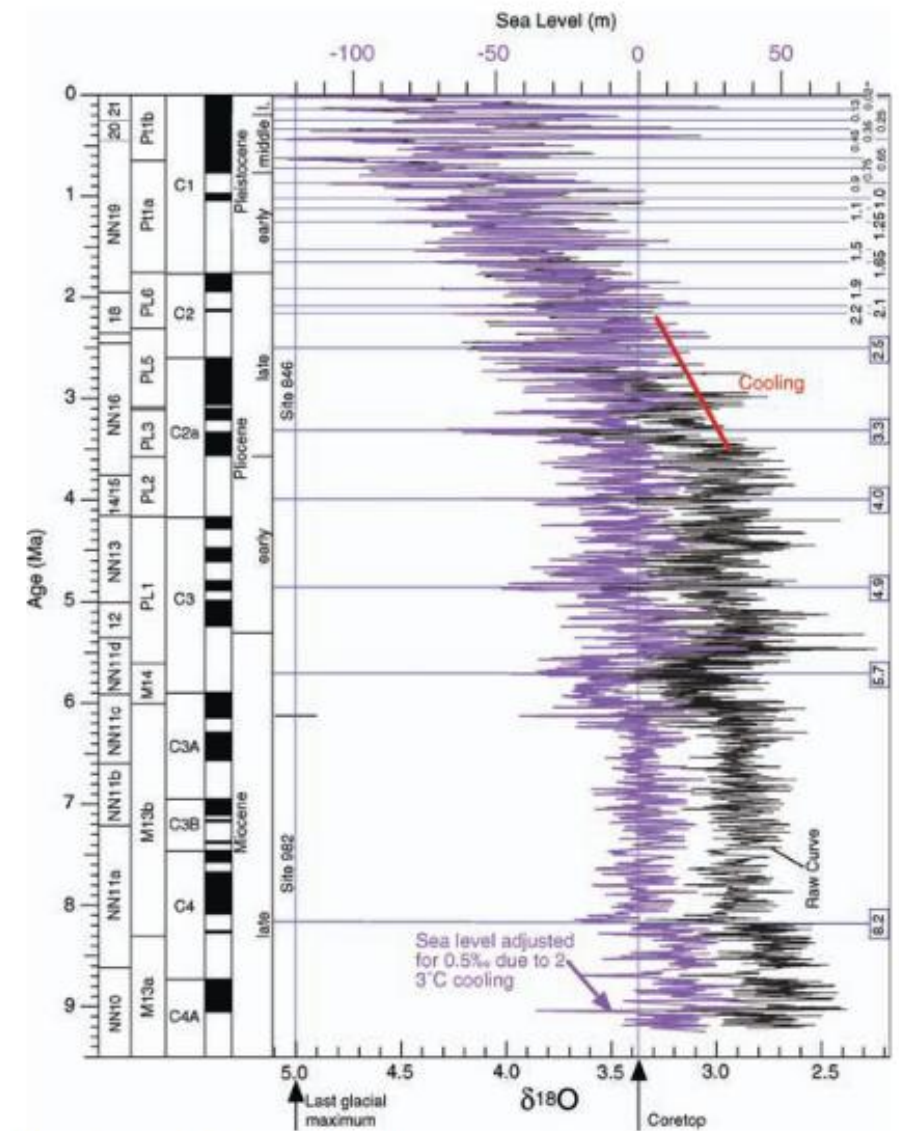
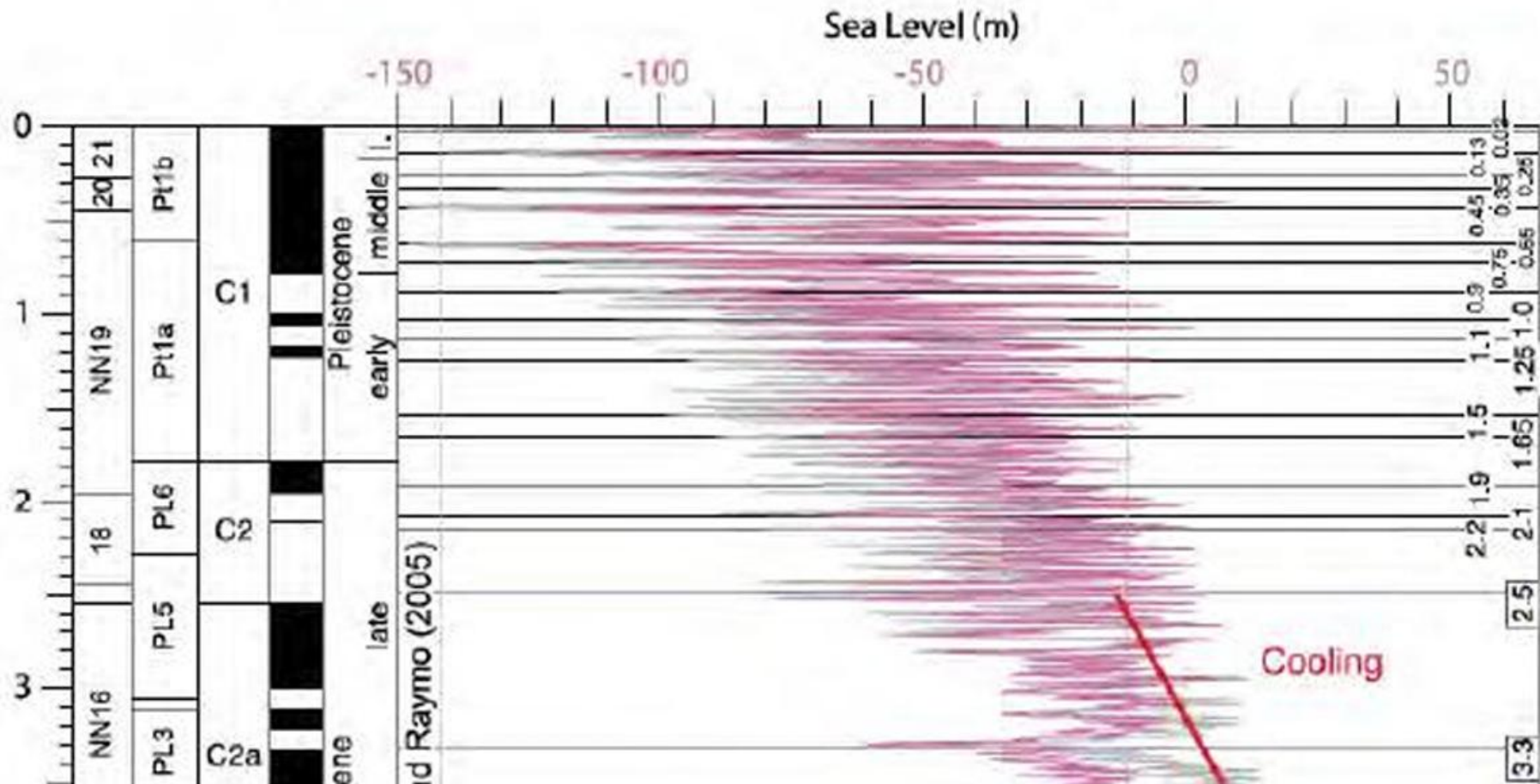


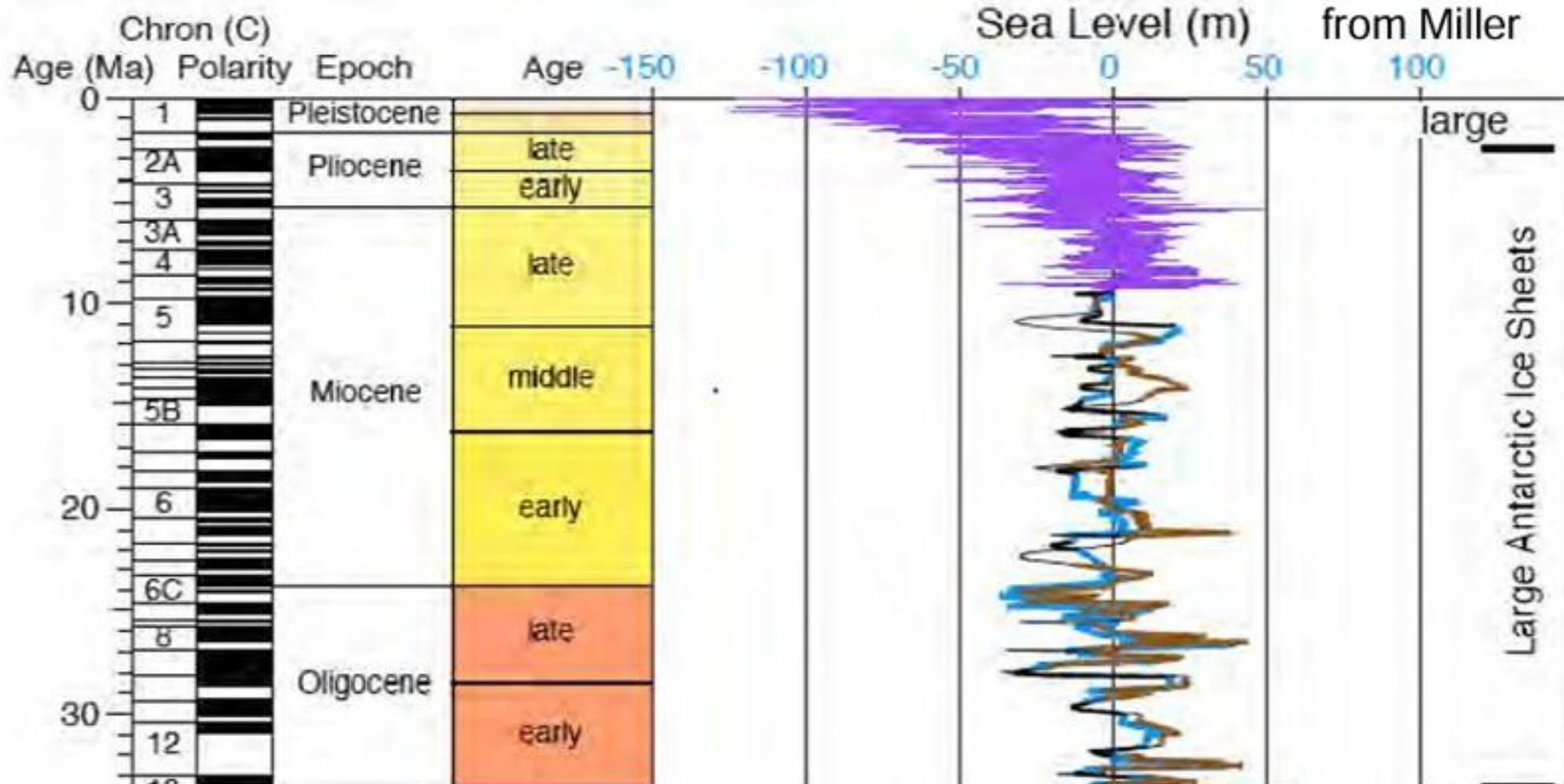
Fig. 4. Oxygen isotopic-based sea-level estimate for the past 9 My. Isotopic values are reported to equilibrium, with coretop and last glacial maximum values indicated with arrows and thin vertical green lines. Thin black line is raw data plotted versus the $\delta^{18}\text{O}$ scale (bottom). The purple line is the sea-level estimate (top scale), which is derived by correcting the $\delta^{18}\text{O}$ data by 0.5‰ due to a $\sim 2^\circ\text{C}$ cooling between 3.3 and 2.5 Ma (red line), scaling by $\delta^{18}\text{O}$ to sea level using a calibration of 0.1‰/10 m, and scaling the result by 0.8 (45).

Note the remarkable Sea Level changes in the Pleistocene, in the past 2M years, from Miller.

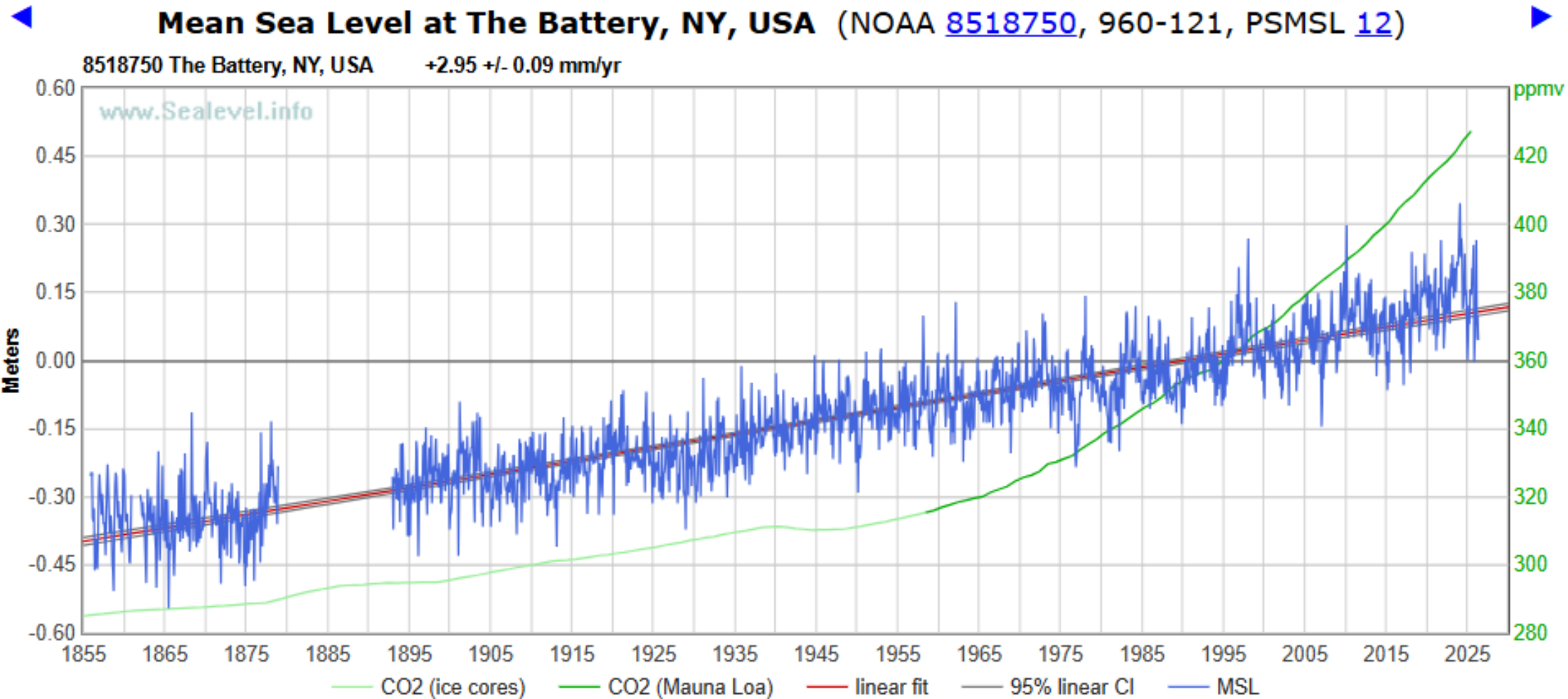


Sea Level is not constant. The rate of sea level change is also not constant.

Another view of the remarkable Sea Level changes in the Pliestocene, in the past 2M years.

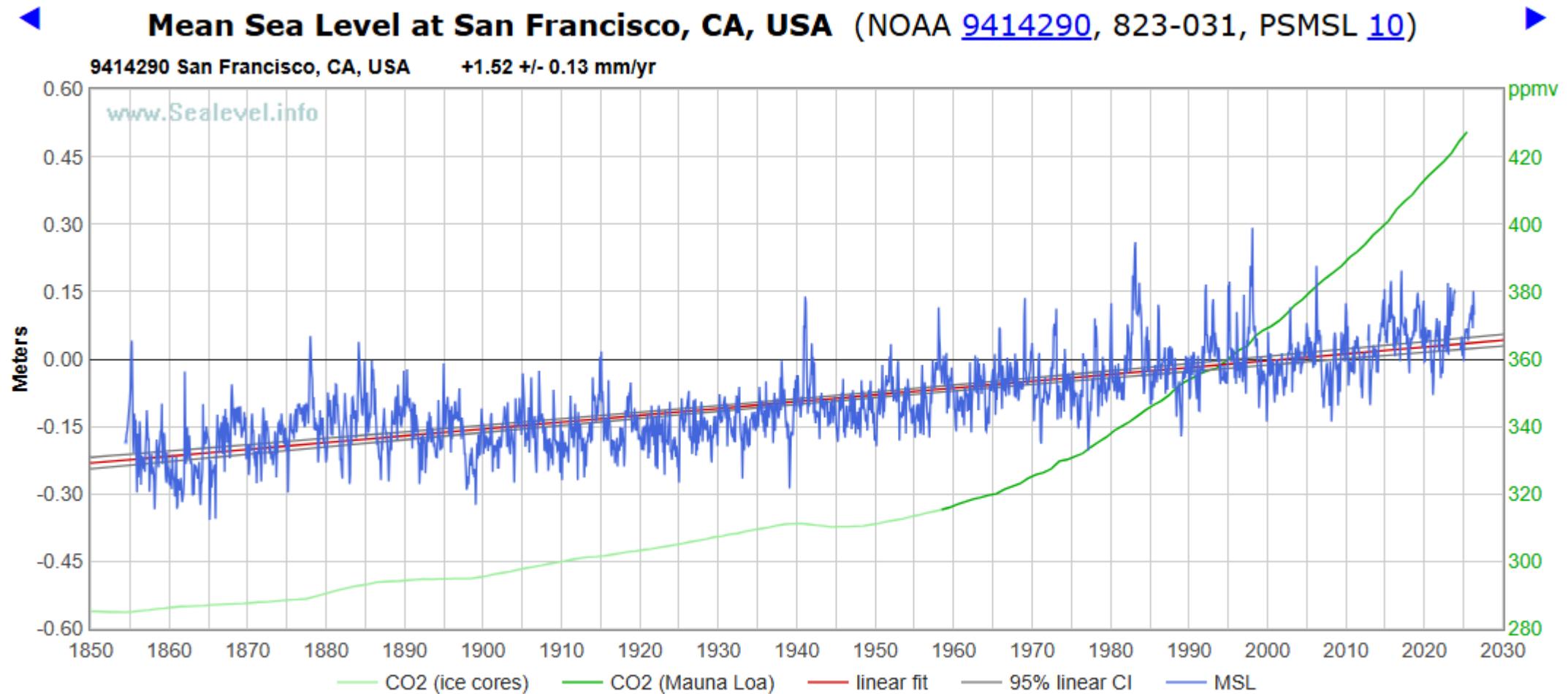


Just looking at these plots, there appear to be at least dozens to scores of changes in the rate of sea level rise in a million years, all before human use of fossil fuels possibly the past 300,000 years and well before the Industrial Revolution. **Sea Level is not constant. The rate of sea level change is also not constant.**



The mean sea level (MSL) trend at The Battery, NY, USA is +2.95 mm/year with a 95% confidence interval of ± 0.09 mm/year, based on monthly mean sea level data from 1856/1 to 2026/5. That is equivalent to a change of 0.97 feet in 100 years. ($R\text{-squared} = 0.843$)

This is the longest readily-available time series of sea level on the US East Coast, starting in April 1856, when Franklin Pierce was President of the USA. Despite $\langle \text{CO}_2 \rangle$ increasing from ~282 to 424 PPM, there is little evidence for increasing rate of sea level rise.

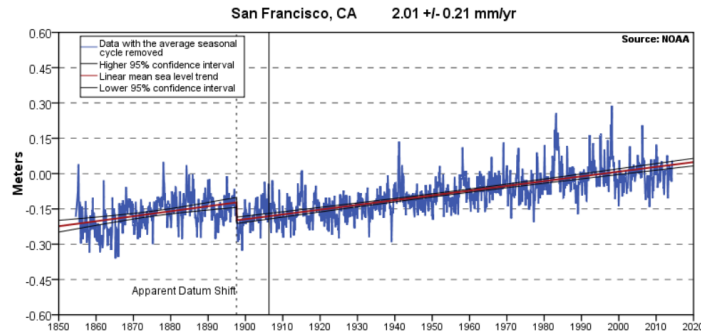


The mean sea level (MSL) trend at San Francisco, CA, USA is +1.52 mm/year with a 95% confidence interval of ± 0.13 mm/year, based on monthly mean sea level data from 1854/7 to 2026/5. That is equivalent to a change of 0.50 feet in 100 years. ([R-squared](#) = 0.600)

This is the longest readily-available time series of sea level on the US West Coast, starting in July 1854, when Franklin Pierce was President of the USA. Despite $\langle \text{CO}_2 \rangle$ increasing from ~282 to 424 PPM, there is little evidence for increasing rate of sea level rise.

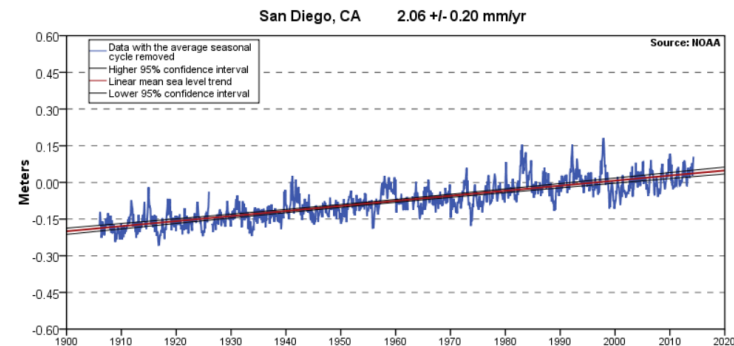
Where is the acceleration of Sea Level Rise?

Mean Sea Level Trend 9414290 San Francisco, California



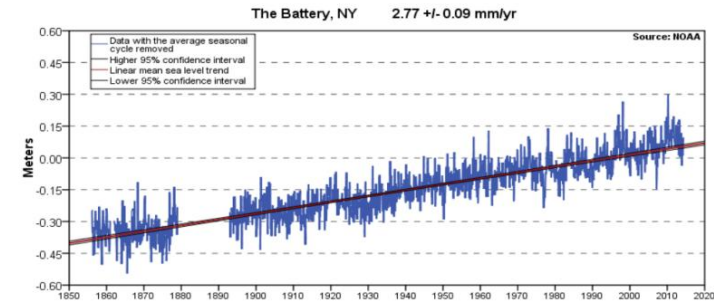
The mean sea level trend is 2.01 millimeters/year with a 95% confidence interval of +/- 0.21 mm/yr based on monthly mean sea level data from 1897 to 2006 which is equivalent to a change of 0.66 feet in 100 years.

Mean Sea Level Trend 9410170 San Diego, California



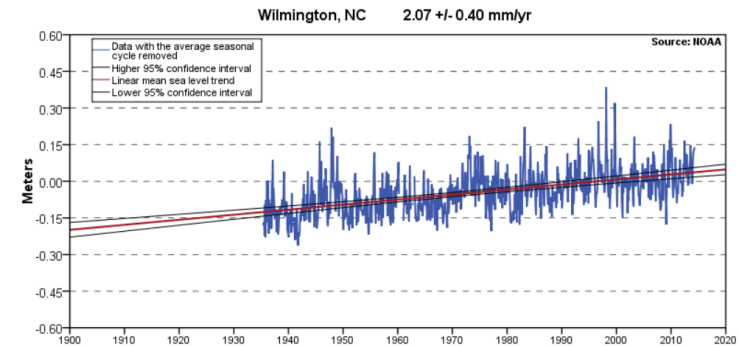
The mean sea level trend is 2.06 millimeters/year with a 95% confidence interval of +/- 0.20 mm/yr based on monthly mean sea level data from 1906 to 2006 which is equivalent to a change of 0.68 feet in 100 years.

Mean Sea Level Trend 8518750 The Battery, New York



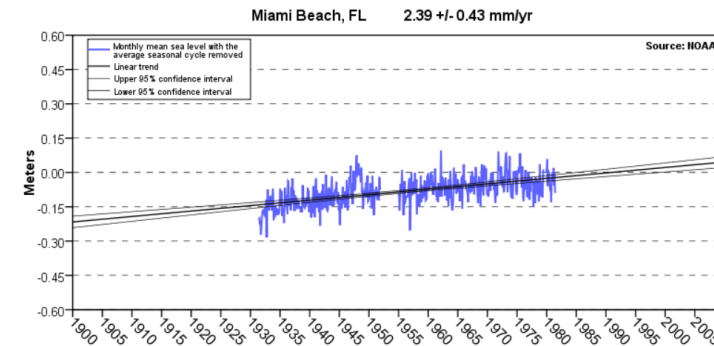
The mean sea level trend is 2.77 millimeters/year with a 95% confidence interval of +/- 0.09 mm/yr based on monthly mean sea level data from 1856 to 2006 which is equivalent to a change of 0.91 feet in 100 years.

8658120 Wilmington, North Carolina



The mean sea level trend is 2.07 millimeters/year with a 95% confidence interval of +/- 0.40 mm/yr based on monthly mean sea level data from 1935 to 2006 which is equivalent to a change of 0.68 feet in 100 years.

8723170 Miami Beach, Florida



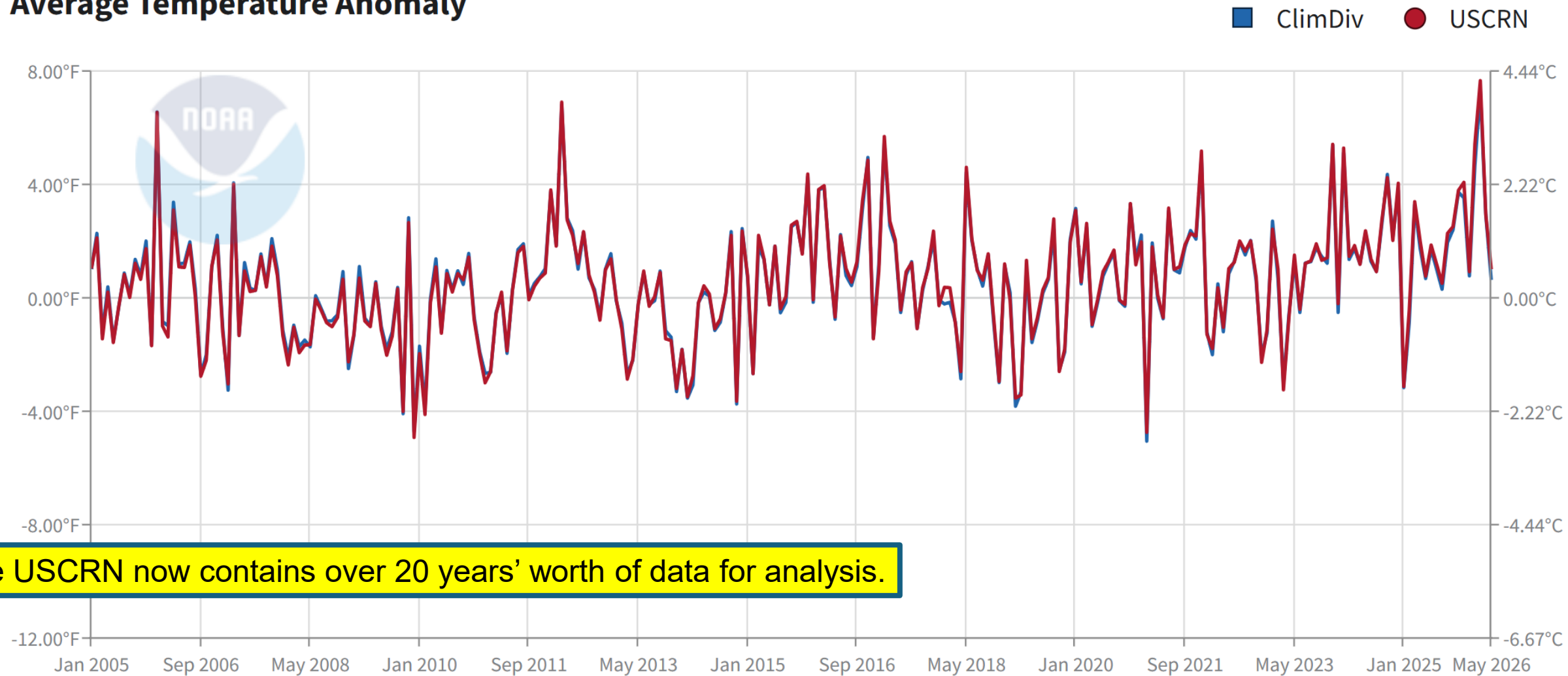
The mean sea level trend is 2.39 millimeters/year with a 95% confidence interval of +/- 0.43 mm/yr based on monthly mean sea level data from 1931 to 1981 which is equivalent to a change of 0.78 feet in 100 years.

How Much Global Warming have we really had?

How much “Global Warming” have we really experienced? The US Climate Research Network offers an answer.

<https://www.ncei.noaa.gov/access/monitoring/national-temperature-index/time-series/anom-tavg/1/0>

Average Temperature Anomaly



The USCRN now contains over 20 years' worth of data for analysis.

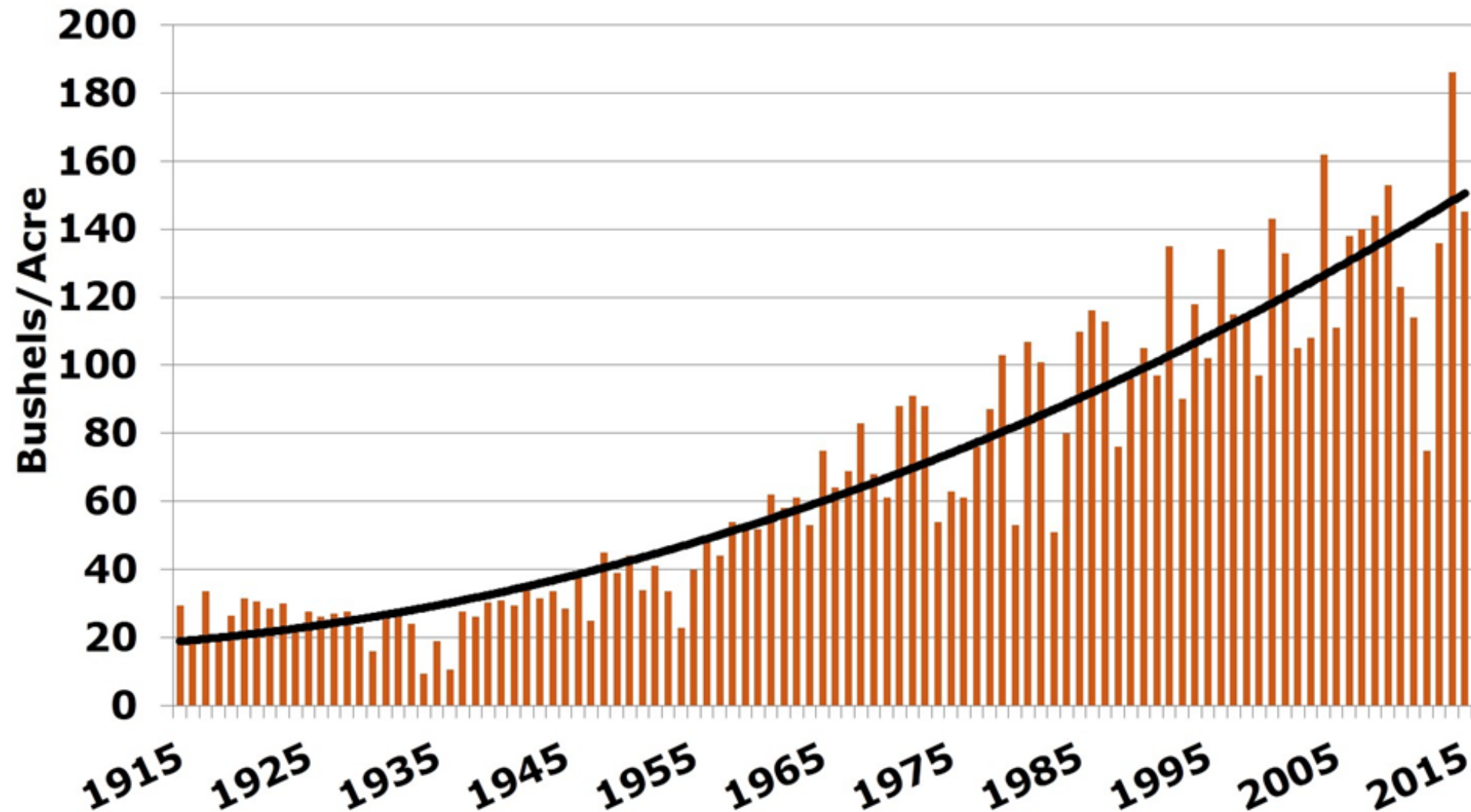
The US Climate Research Network, USCRN, is a continent-sized network of state-of-the-art, triple-redundant, aspirated temperature sensors, unaffected by poor exposure and the urban heat island effect so common today.

Increasing Concentrations of CO₂ make plants more efficient.

Food harvests are more productive.

As temperature and CO_2 increase above the base level in early 20th century time, the optimum photosynthetic temperature and plant productivity increase dramatically.

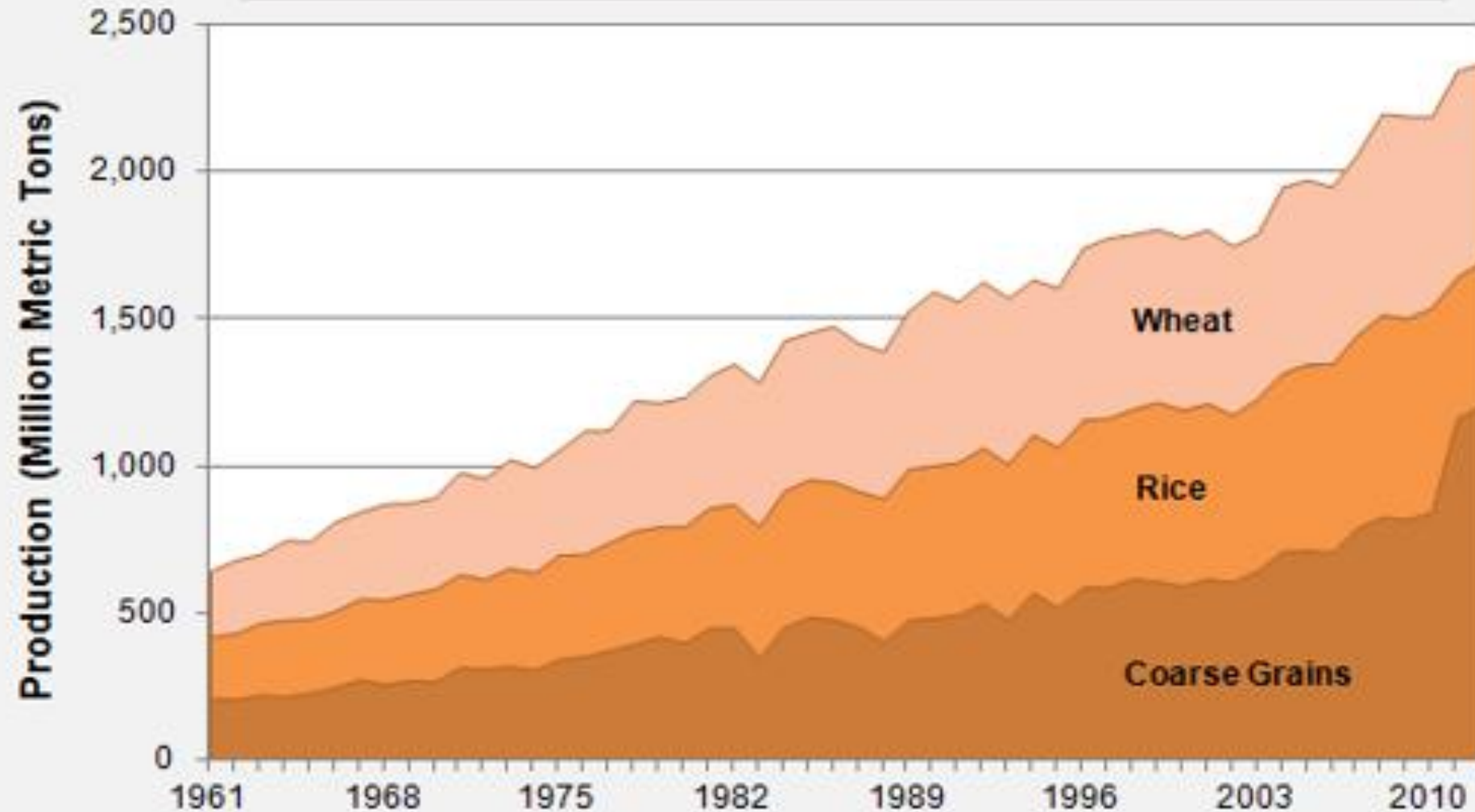
The plants rapidly respond to these increases because every plant we live with today developed during periods of higher CO_2 on a much warmer planet than today.



Corn Production Efficiency in Missouri corn yields have increased over 1 bushel/acre per year. pounds of fertilizer and pesticide used to produce that corn has decreased. This double efficiency of increasing yields and decreasing input simultaneously sustains profits and environmental quality.

Crop yields and corn production efficiency are increasing, not slipping, as Katharine Hayhoe asserts.

World Grain Production, 1961-2012



©Worldwatch Institute

Source: FAO

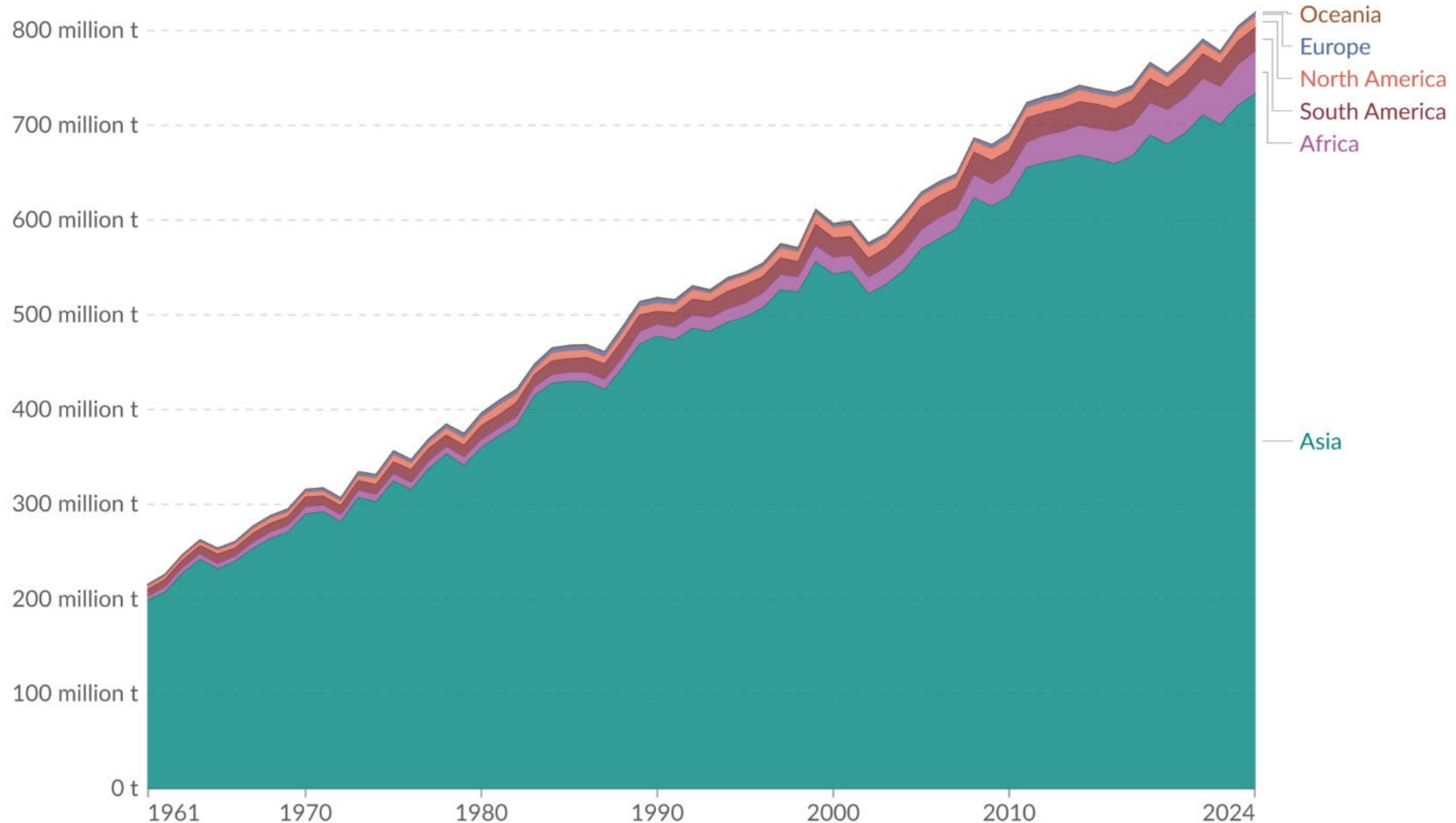
World grain production is increasing dramatically!

Increasing CO₂ leads to increasing wheat production, seen in the data at: <http://www.co2science.org/>

Rice production by region, 1961 to 2024

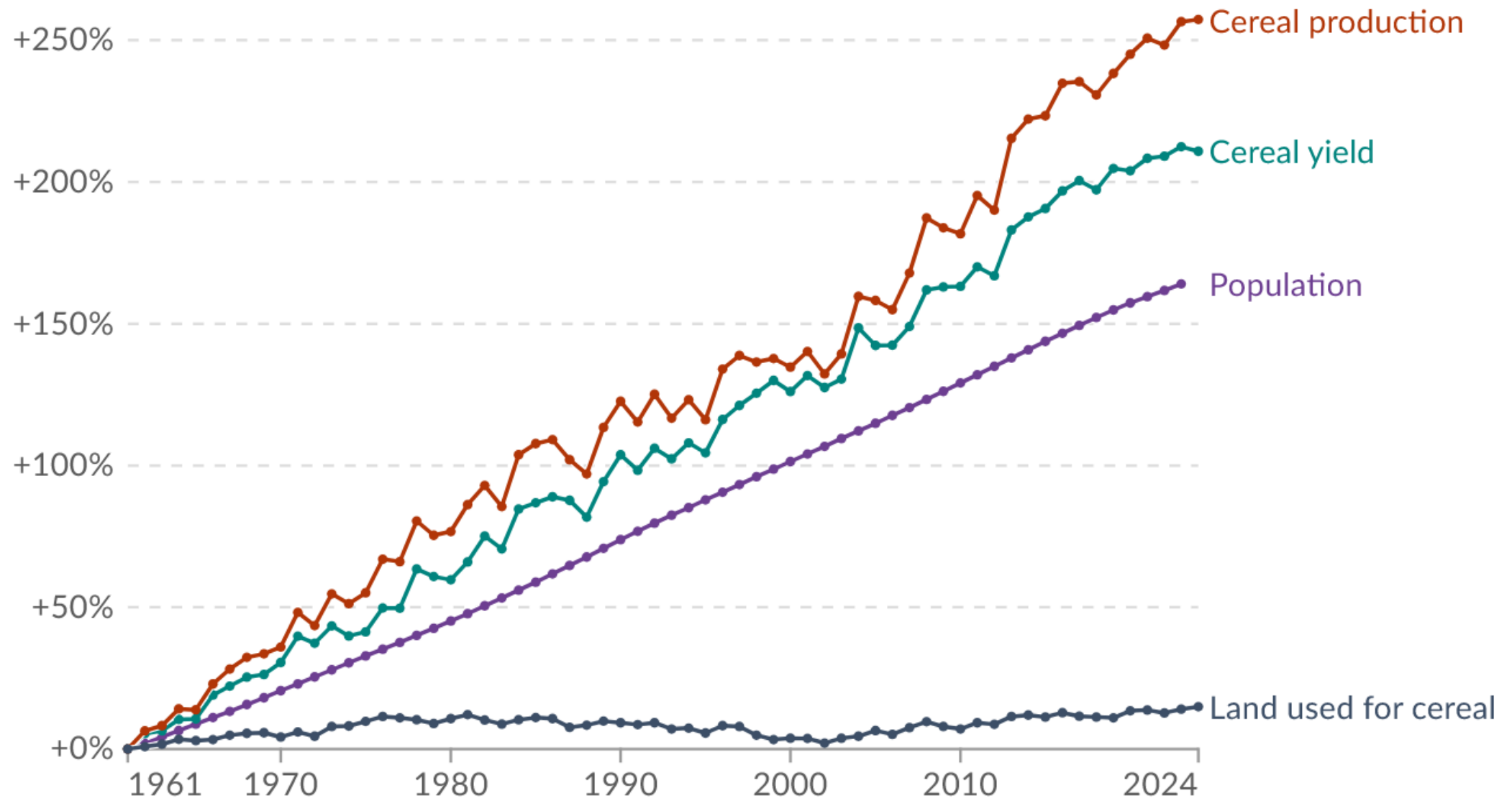
Our World
in Data

Rice production is measured in tonnes per year.



Data source: Food and Agriculture Organization of the United Nations (2025)

OurWorldinData.org/agricultural-production | CC BY



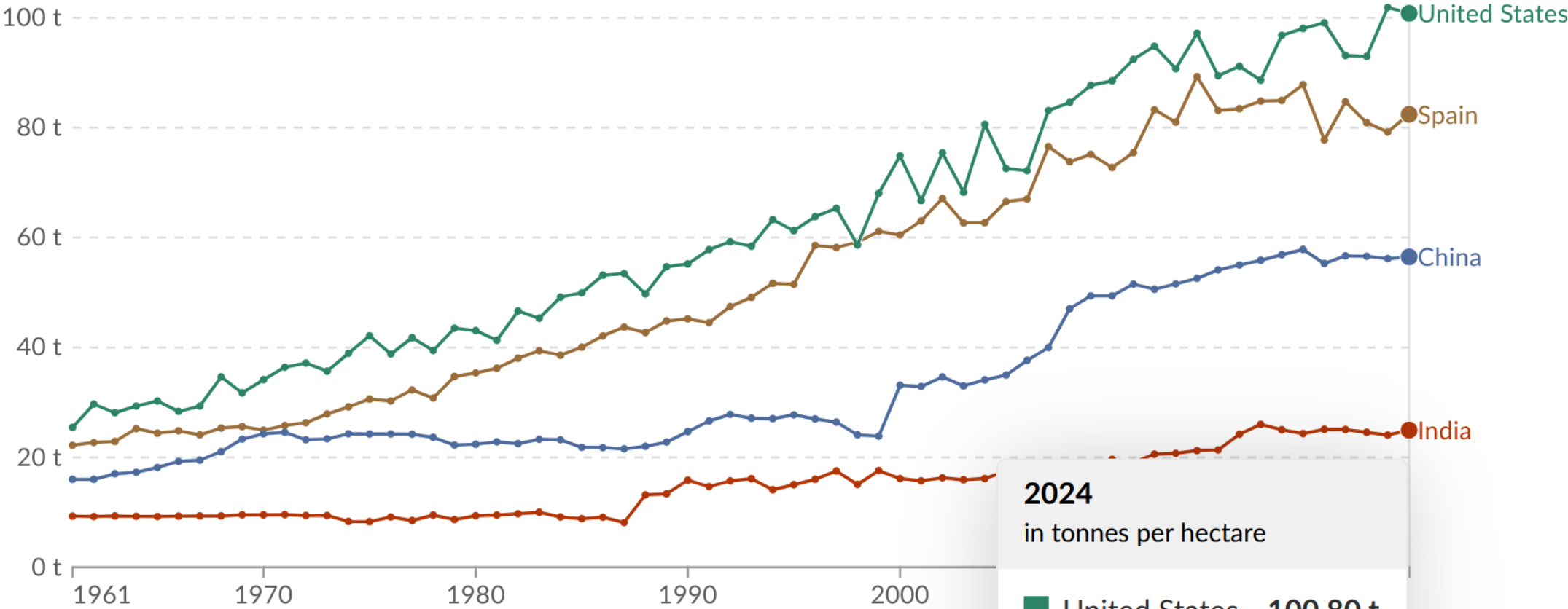
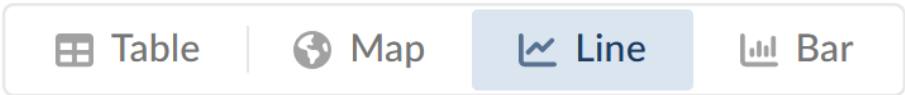
1961



2024

Tomato yields, 1961 to 2024

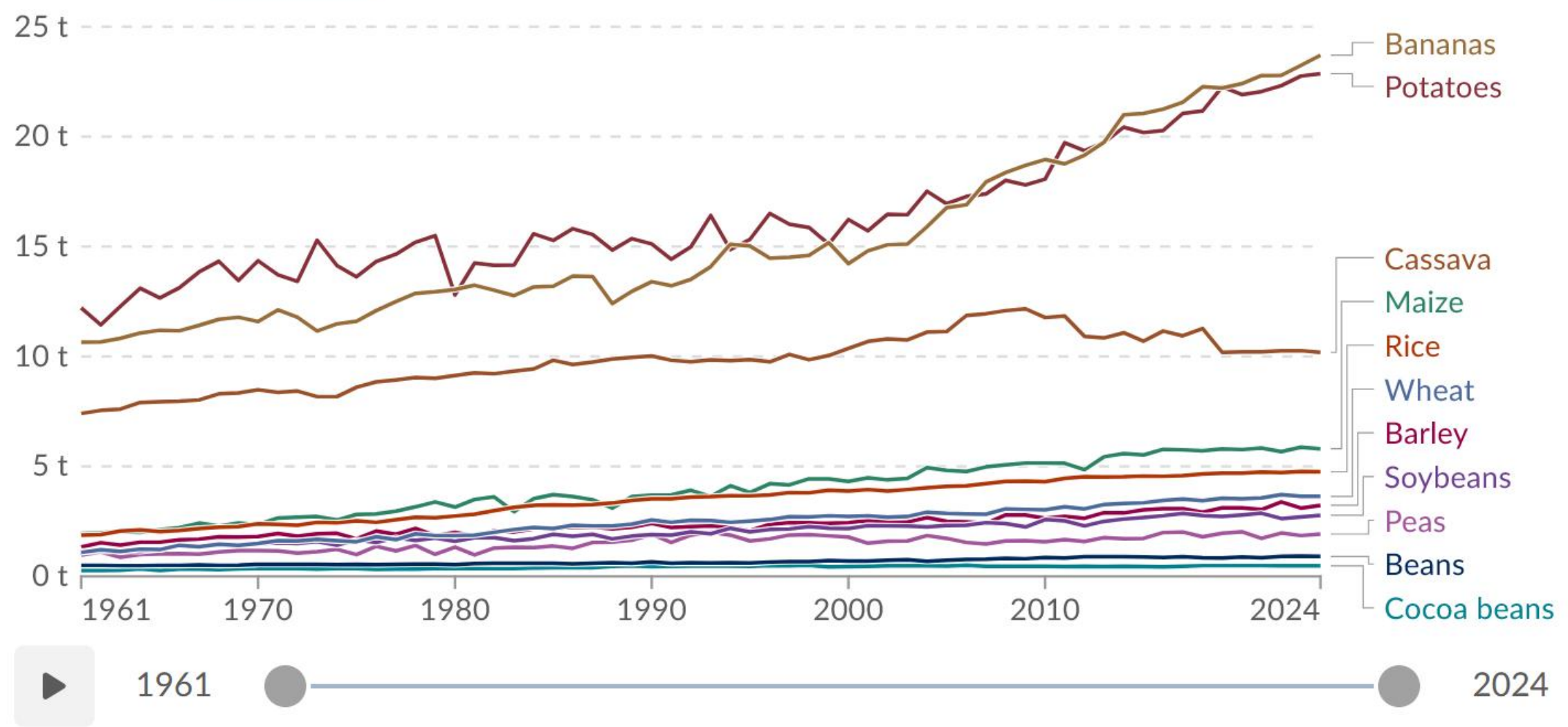
Yields are measured in tonnes per hectare.



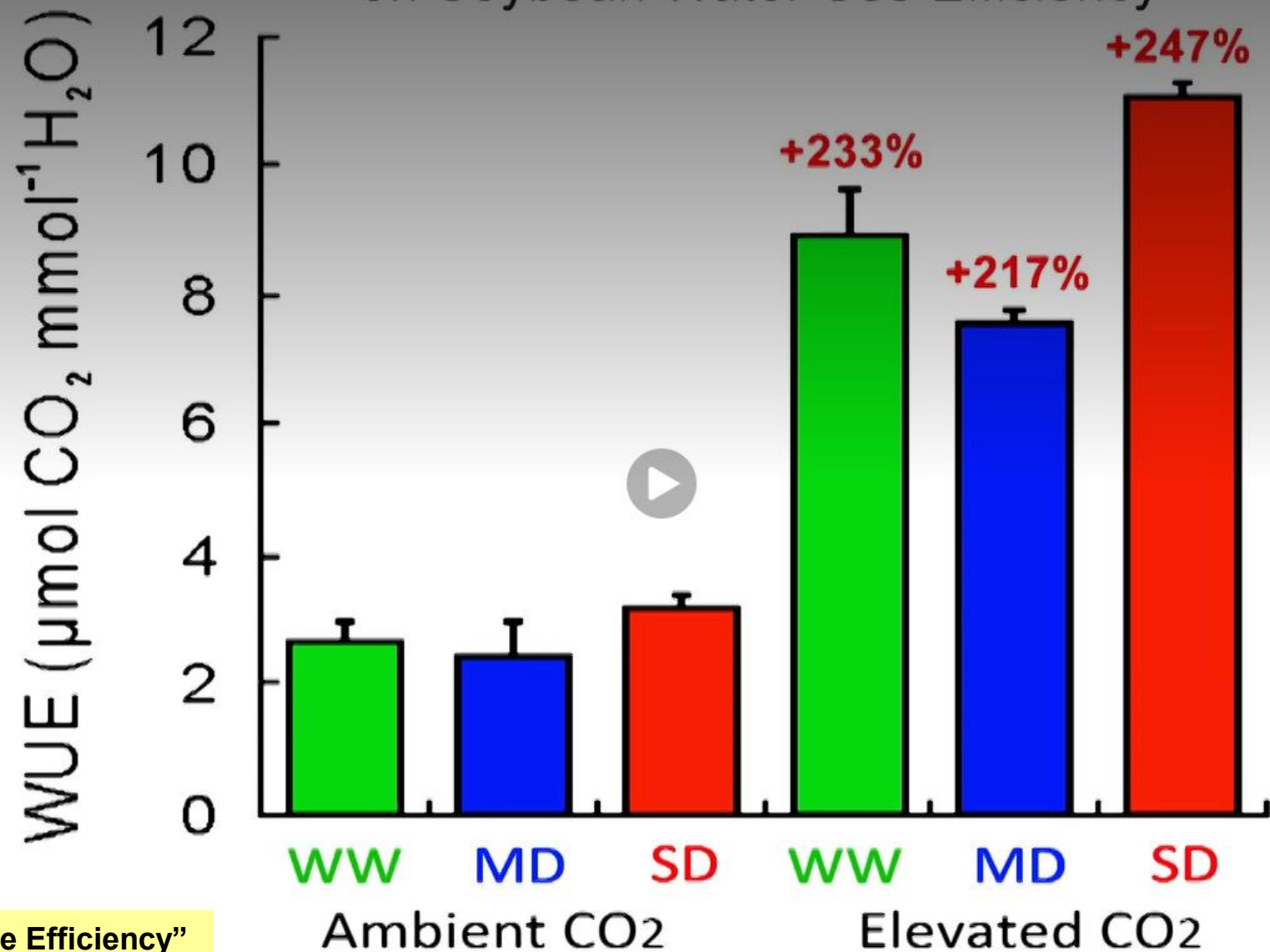
Crop yields, World, 1961 to 2024

Yields are measured in tonnes per hectare.

<https://ourworldindata.org/grapher/key-crop-yields>



Effects of Elevated CO₂ and Water Supply on Soybean Water Use Efficiency

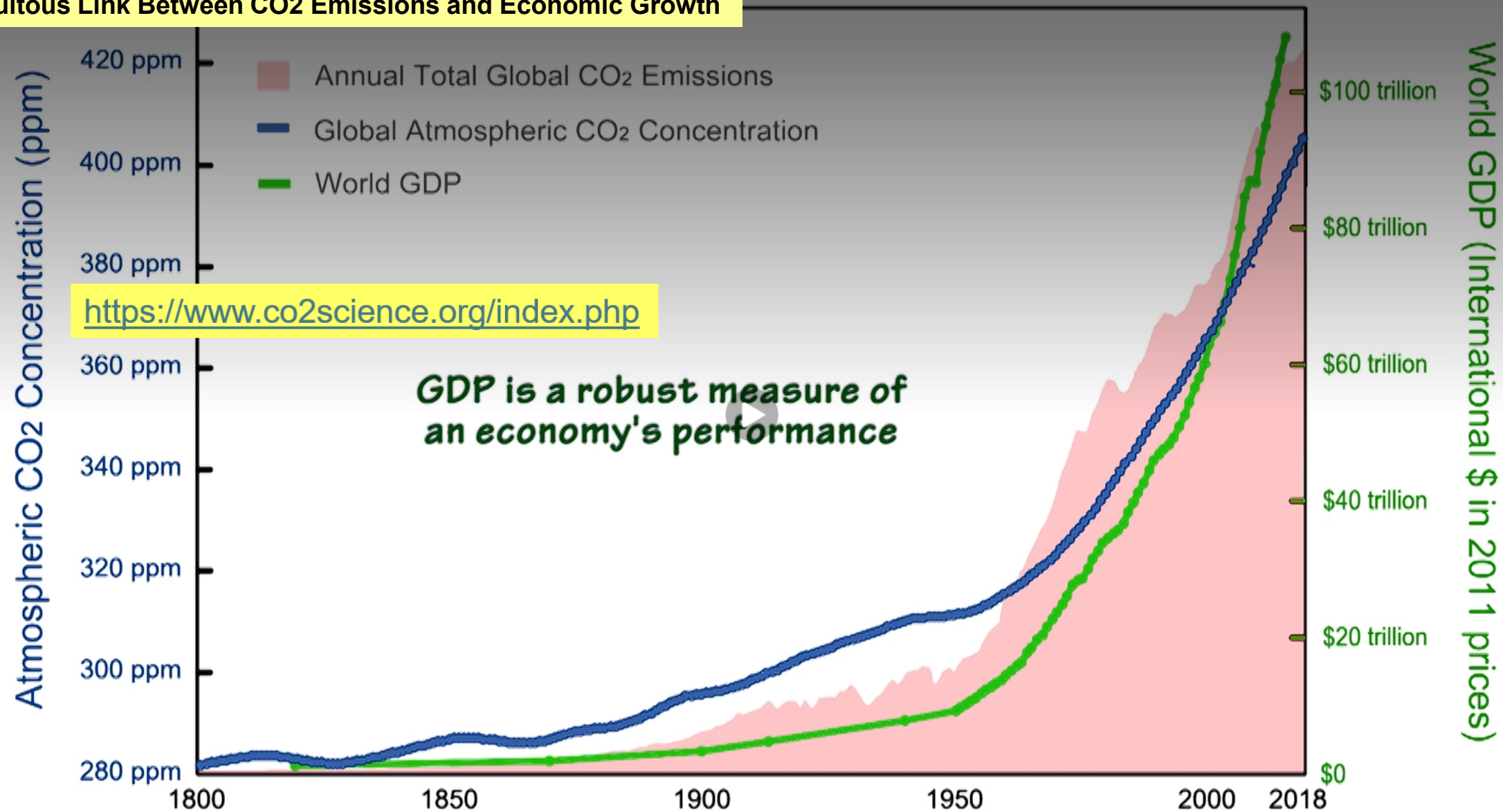


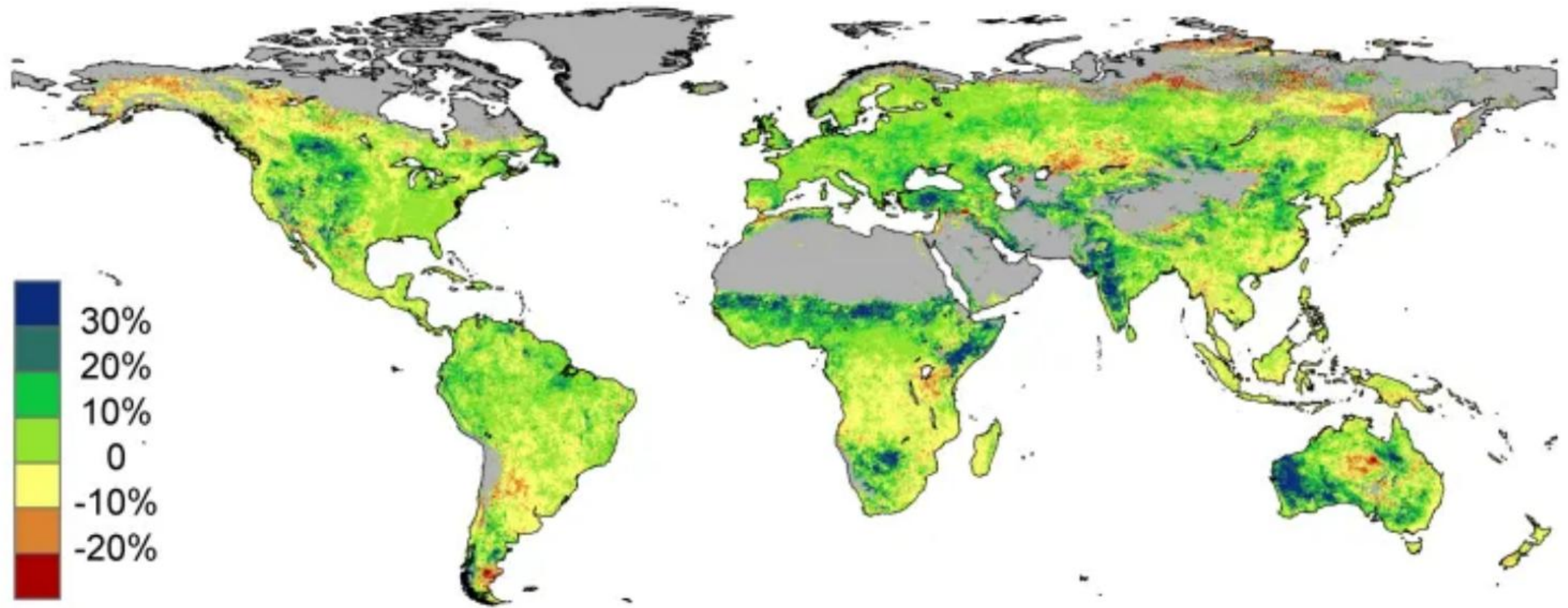
Video: "CO₂-induced Benefits to Plant Water Use Efficiency"

WW = well-watered, MD = moderate drought, SD = severe drought

Two Centuries of Atmospheric CO₂ and World GDP Data

Video: The Fortuitous Link Between CO₂ Emissions and Economic Growth





Satellite data shows the percent amount that foliage cover has changed around the world from 1982 to 2010. (PHOTO: CSRIO)

Plants growing in CO_2 -enriched air prefer warmer temperatures.

<https://extension.okstate.edu/fact-sheets/greenhouse-carbon-dioxide-supplementation>

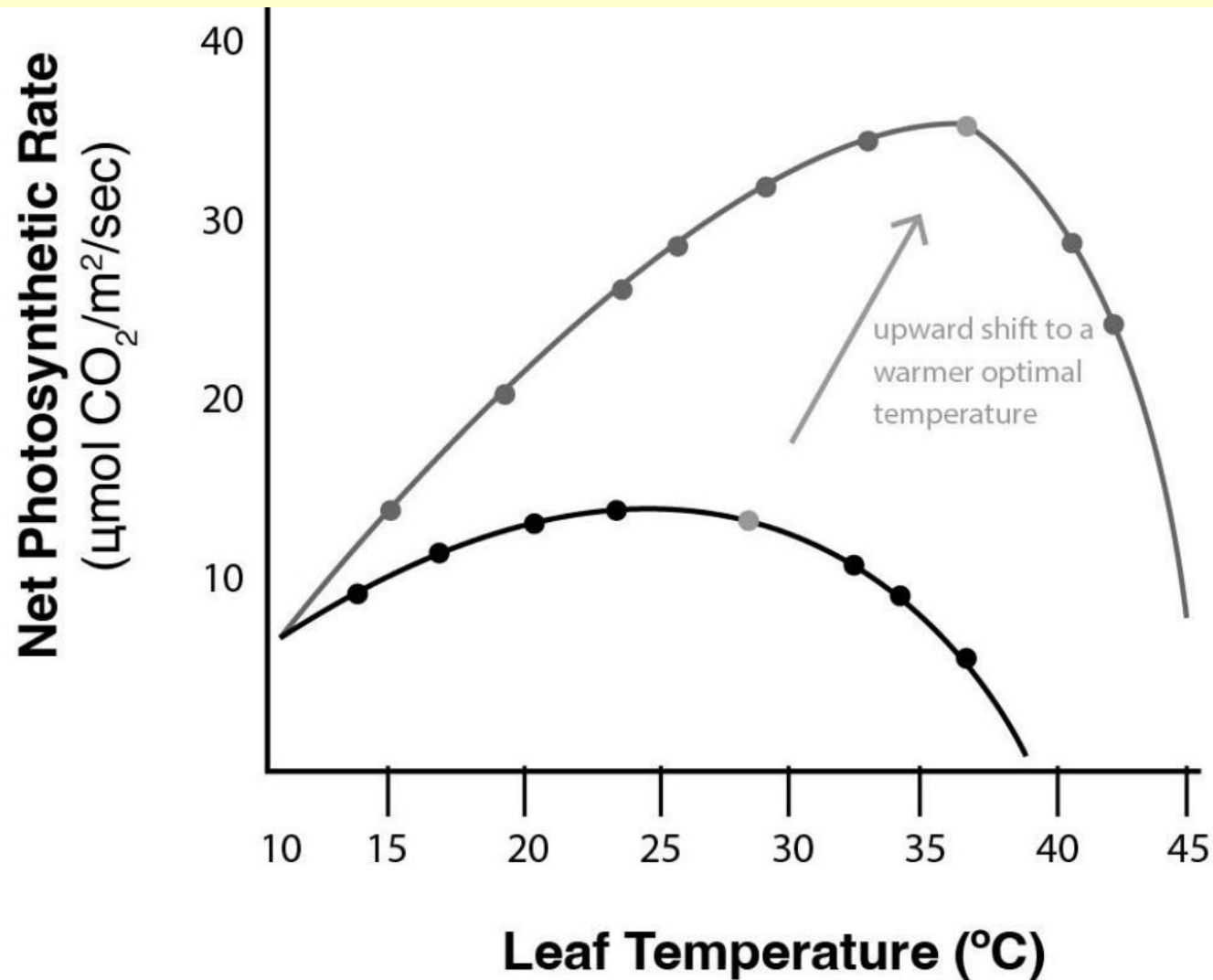
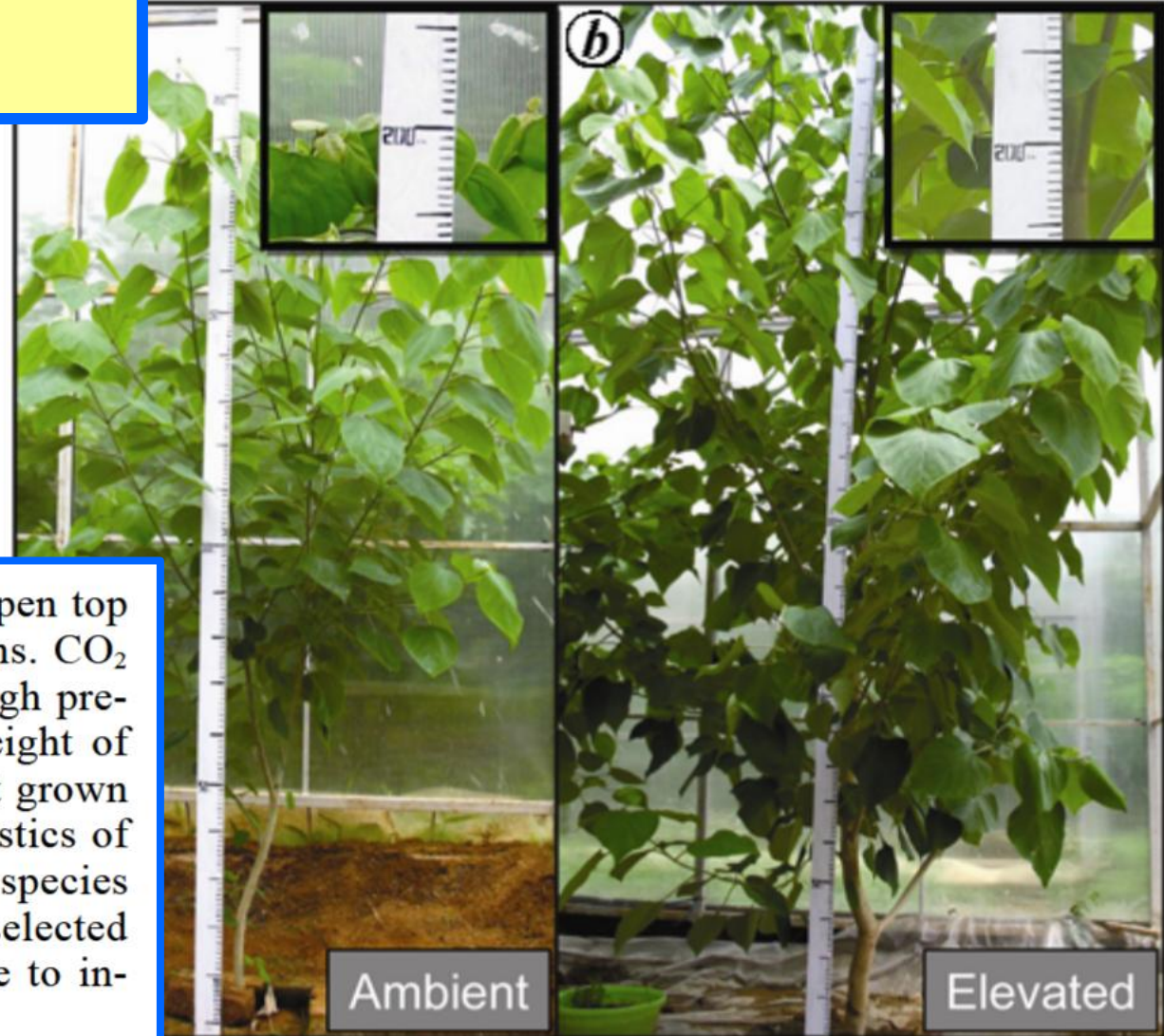


Figure 2. Relationship between leaf temperature and net photosynthetic rate at ambient and CO_2 elevated condition in *Populus grandidentata* (Jurik et al., 1984).

https://www.researchgate.net/profile/Girish-Rasineni-2/publication/267553517_The_impact_of_global_elevated_CO2_concentration_on_photosynthesis_and_plant_productivity/links/5453eac90cf2cf51647c26f8/The-impact-of-global-elevated-CO2-concentration-on-photosynthesis-and-plant-productivity.pdf

Figure 1. Five-month-old *Gmelina arborea* plants grown in open top chambers under ambient (a) and elevated (b) CO₂ concentrations. CO₂ was supplied from a high pressure CO₂ cylinder, injected through pressure regulator and was monitored by a CO₂ analyser. The height of ambient CO₂ grown plant was ~ 210 cm, while that of the plant grown under elevated CO₂ was ~ 360 cm. The other growth characteristics of these plants are shown in Table 2. After screening several tree species for their growth characteristics under elevated CO₂, we have selected *G. arborea* as its growth was found to be very fast in response to increased CO₂ concentrations.



Here is what happens with more CO₂



385 ppm

535 ppm

685 ppm

835 ppm



450 ppm



1270 ppm

Conclusions.

Stuff to think About.

CONCLUSIONS:

We showed that increasing concentrations of CO₂ do not endanger health of US Citizens and that the Obama-Era Endangerment finding claims were untrue.

There were examples of data falsification, cheating, even theft.

EPA Administrator Zeldin withdrew the Endangerment finding on purely legal and Constitutional grounds.

The “Off-Cycle Credits” gave credit for reducing emissions when measurements showed that reductions did not occur.

Left-Leaning journalists, opinion makers and members of the media are furious that this, their Pet Project, the Endangerment Finding, is dead.

More CO₂ means more crops containing, **carbo**hydrates are harvested and eaten.



Global Major Hurricane Frequency (≥ 94 knots) -- 3 year Running Sums

@RyanMaue

Updated through December 31, 2023

Why are there fewer Major Hurricanes
When Sunspot Numbers <ORANGE> peak?

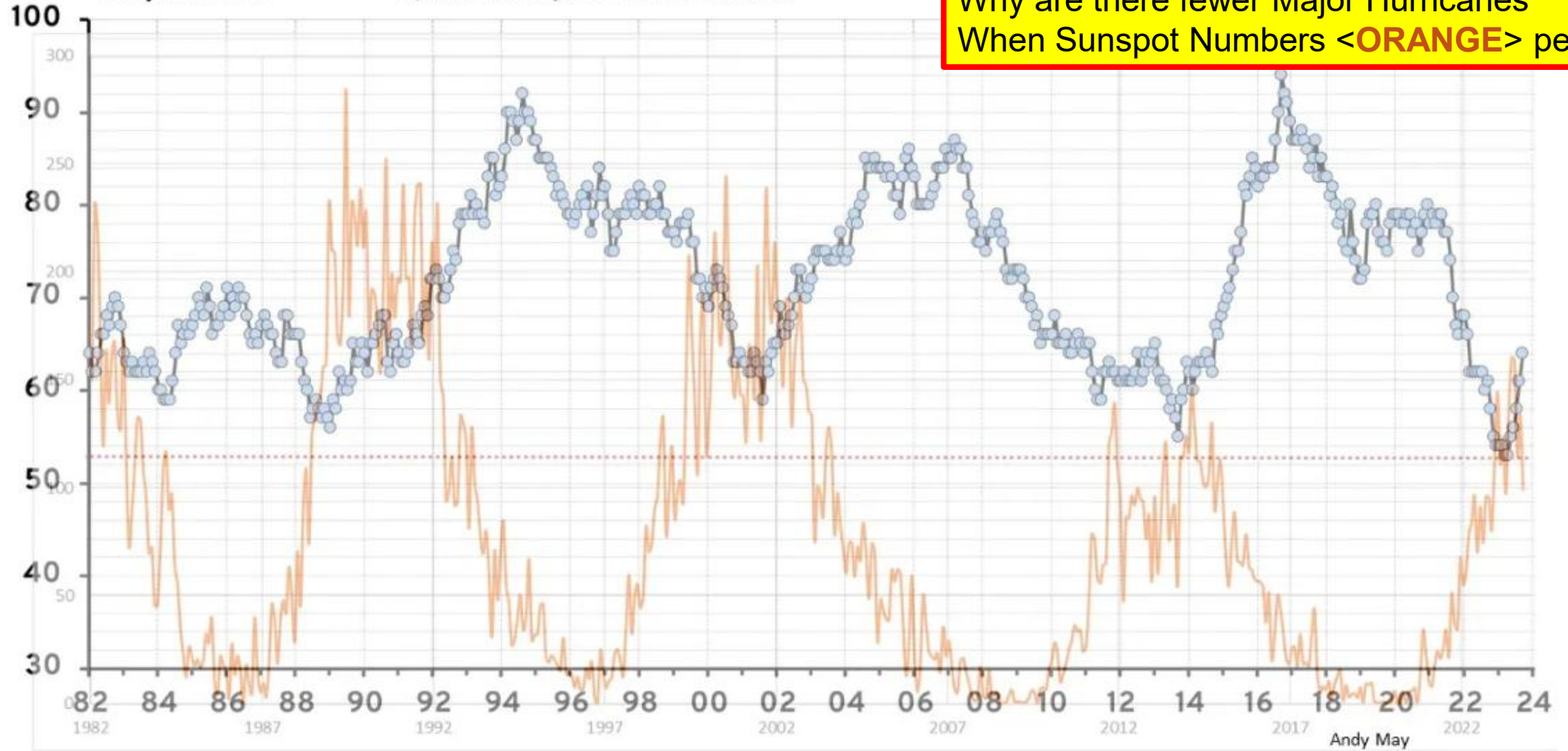
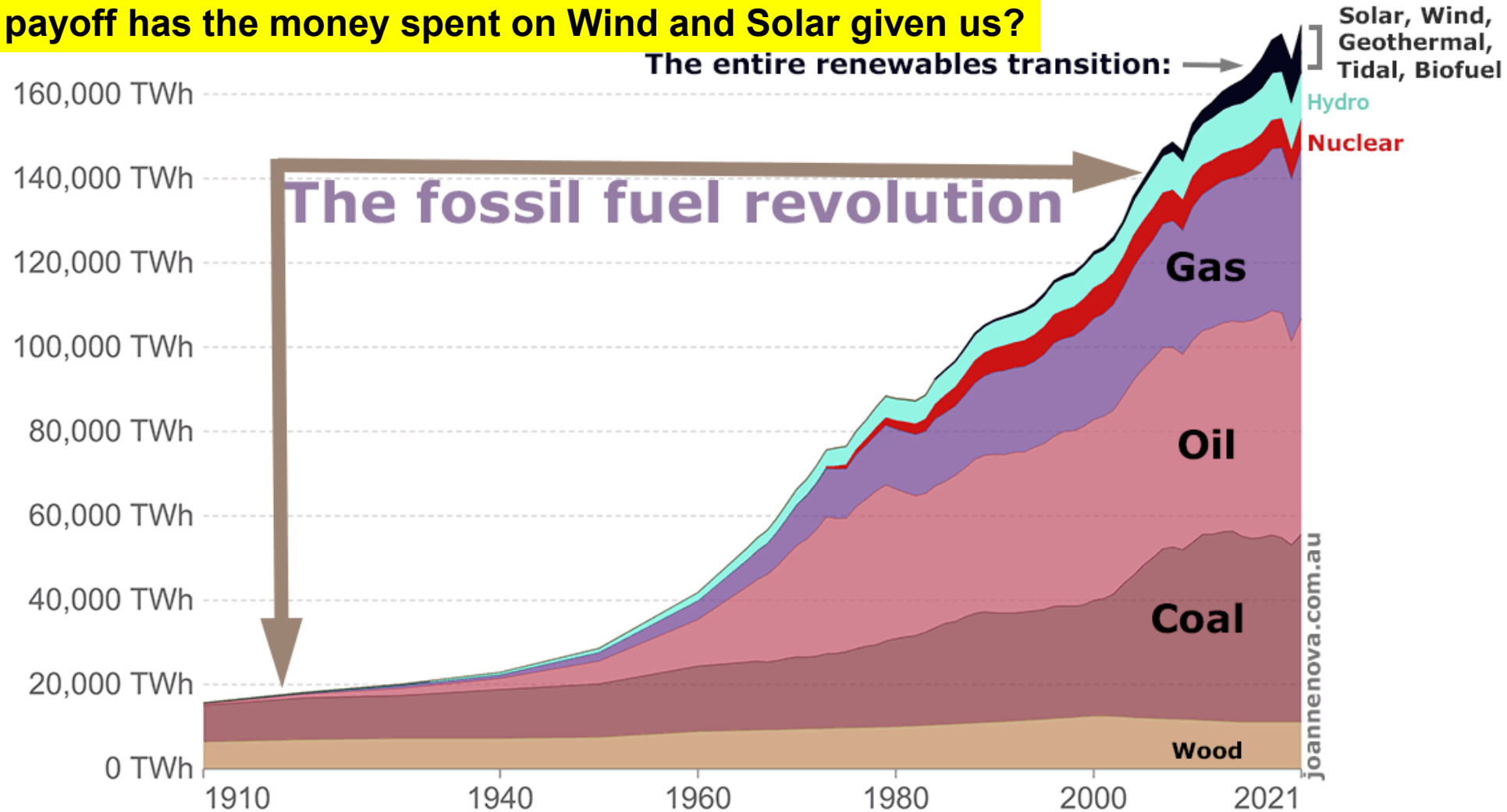


Figure 1. The blue line is Ryan Maue's 3-year cumulative count of major global hurricanes. The orange line is the simple monthly sunspot count from SILSO.

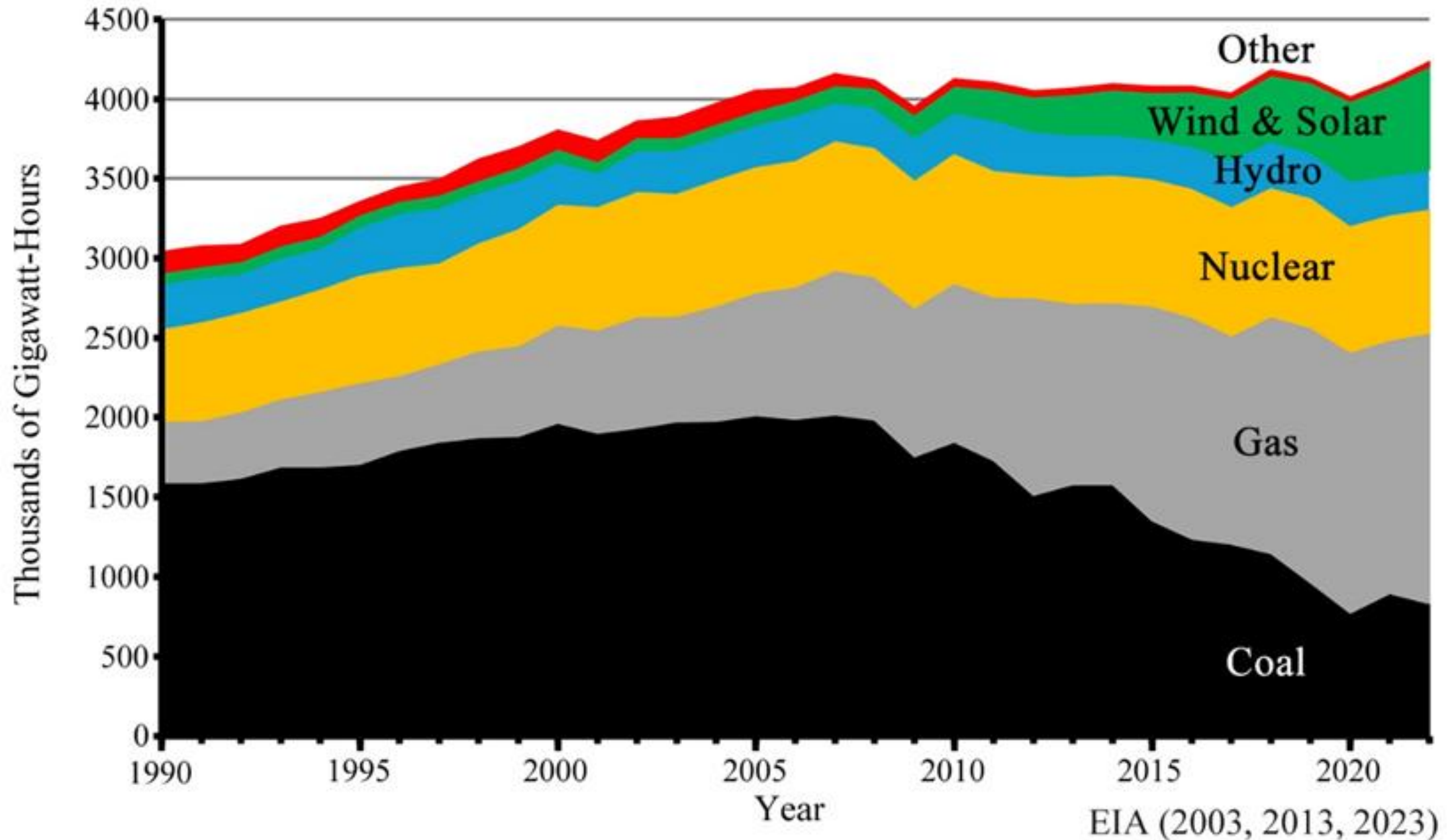
Global primary energy consumption by source

Primary energy is calculated based on the 'substitution method' which takes account of the inefficiencies in fossil fuel production by converting non-fossil energy into the energy inputs required if they had the same conversion losses as fossil fuels.

How much payoff has the money spent on Wind and Solar given us?



US Net Electricity Generation By Energy Source (1990-2022)



New Study Finds CO₂ Is Merely A Climate ‘Spectator’, A Non-Factor In Explaining Paleoclimate Changes

By Kenneth Richard on 5. September 2024

“...sea surface temperature has been the primary determinant of baseline atmospheric P(CO₂) across the entire Cenozoic” – Frank, 2024

A [new study](#) analyzes paleo atmospheric CO₂ levels using the modern-day observation that oceans release more CO₂ as they warm and less CO₂ as they cool – a reference to [Henry’s Law](#).

“...ambient CO₂ is released or dissolved only after a positive or negative change in global mean ocean temperature.”

Application of Henry’s Law allows for the calculated interpretation that the reconstructed 100s of ppm (± 200 -800 ppm) CO₂ variations over the last 66 million years (the Cenozoic), as well as throughout the last 420,000 years of ice core records, are driven or “primarily determined” by sea surface temperature (SST).

“Temperature-driven re-equilibration of carbon dioxide across the sea surface can explain the rise and fall of atmospheric P(CO₂) throughout the 420 kYr glacial record of the VOSTOK ice core. The correspondence implies a glacial-interglacial global mean SST range of 11°C (280-291 K)...”

<https://notrickszone.com/2024/09/05/new-study-finds-co2-is-merely-a-climate-spectator-a-non-factor-in-explaining-paleoclimate-changes/>

New Study: Central Europe Was '2-5°C Warmer Than Present' Throughout Most Of The Holocene

By Kenneth Richard on 22. July 2024

There were millennia during the past glacial (when CO₂ levels were under 200 ppm) that were as warm or warmer than today.

Four central Europe reconstructions, using collected evidence from disparate biomarkers, indicate there were periods (for example, 54,000 to 51,000 years ago, the Bølling–Allerød interstadial, 14,700 years ago) during the last glacial when temperatures were as warmer than (or similar to) today ([Zander et al., 2024](#)).

Temperatures throughout the Holocene (8,000 to 4,000 years ago), when CO₂ hovered around 265 ppm, were 3.5°C (and up to 5°C) warmer than today. Modern temperatures are among the coldest of the last 10,000 years.