

Lies, Damned Lies, “Climate Science,” and “Artificial Intelligence”

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“Lies, damned lies, and statistics”

- ▶ Made famous by Mark Twain
- ▶ Referring to Benjamin Disraeli, Earl of Beaconsfield
- ▶ Who in 1895 wrote in a letter to the editor of The Times that there are **“three degrees of veracity — viz., lies, damned lies, and statistics”**

Lie (verb and noun)

- ▶ “to make an untrue statement with intent to deceive”
- ▶ “to create a false or misleading impression”
- ▶ “an assertion of something known or believed by the speaker or writer to be untrue with intent to deceive”

Truth

- ▶ Book III, Chapter 21 of Bracton on the Laws and Customs of England, Titled “On Oaths”, written around 1250 AD)
 - ▶ “Item sciendum est, quod in omni jurejurando, debet esse veritas, veritas omnis, et praecipue veritas ad rem propositam, et solummodo veritas.”
 - ▶ “Likewise, it must be known that in every oath, there must be truth, the whole truth, and above all truth as to the matter proposed, and only the truth.”
 - ▶ Or as we say today, “the truth, the whole truth, and nothing but the truth”

Ethics in Journalism and Science

- ▶ Society of Professional Journalists
 - ▶ SPJ Code of Ethics
- ▶ National Academy of Sciences
 - ▶ Code of Conduct

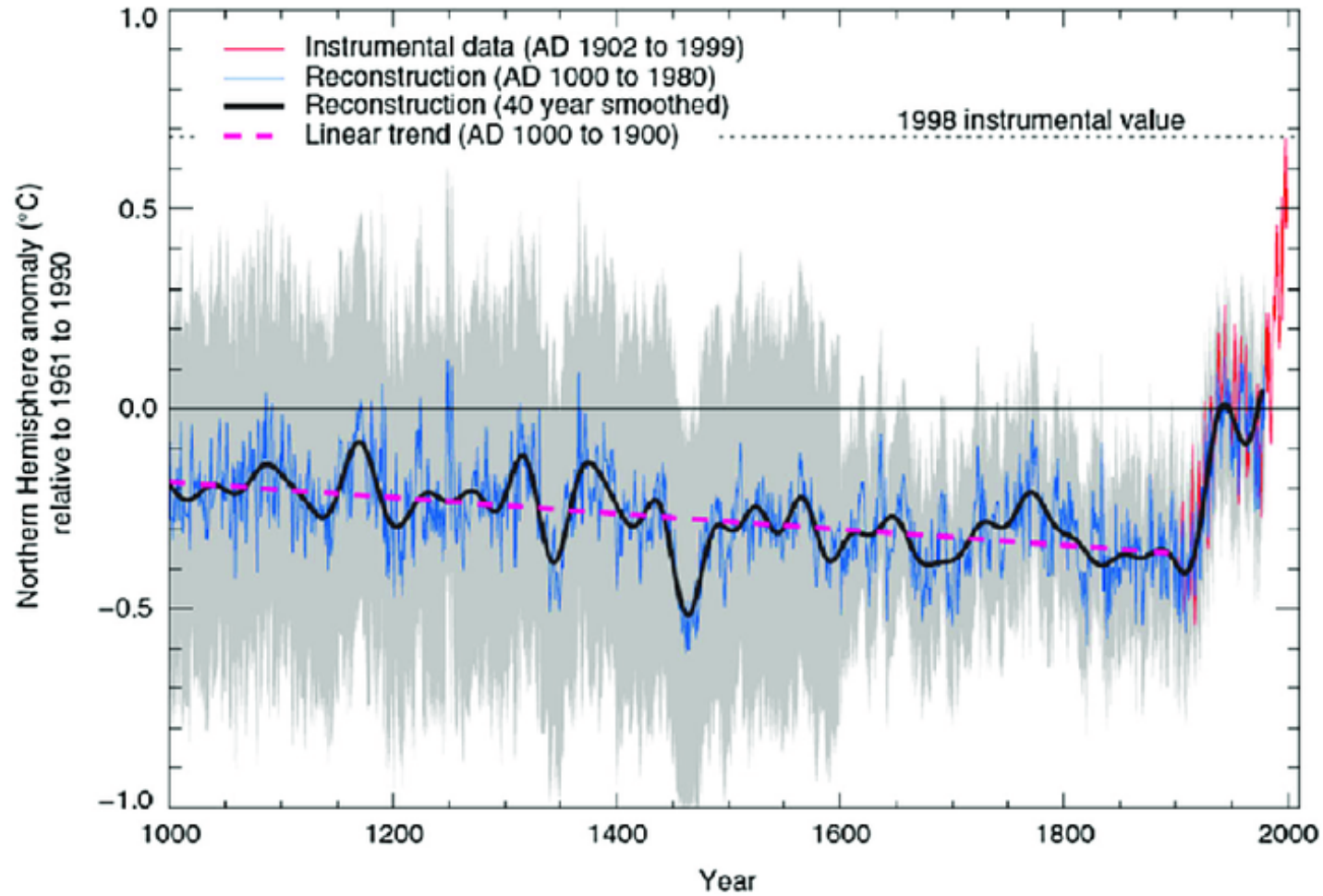


**“A Disgrace to the Profession”
by Mark Steyn (2015)**

- ▶ Reviewed by David R. Legates (2016) in the National Association of Scholars *Academic Questions*.
- ▶ “a must-read for anyone concerned about the veracity of science and how the climate change movement has corrupted it to serve its own interests.”

Exploding “climate science” lies

- ▶ David Deming, *Journal of Scientific Exploration*, Vol. 19 (2005)
 - ▶ “In 1995, I had a short paper published in the prestigious journal *Science* (Deming, 1995)... With the publication of the article in *Science*, I gained significant credibility in the community of scientists working on climate change. They thought I was one of them, someone who would pervert science in the service of social and political causes. So one of them let his guard down. A major person working in the area of climate change and global warming sent me an astonishing email that said “We have to get rid of the Medieval Warm Period.”



The 'Hockey stick' graph from the IPCC's Third report (2001): Variations of the Earth's surface temperature over the last 1000 years. Taken from Figure 2.20: Millennial Northern Hemisphere (NH) temperature reconstruction (blue) and instrumental data (red) from AD 1000 to 1999, adapted from Mann, Bradley and Hughes (1999). Smoother version of NH series (black), linear trend from AD 1000 to 1850 (purple-dashed) and two standard error limits (grey shaded) are shown. (IPCC AR3 Working Group I: The Scientific Basis p. 134)

Bad math: Mann's hockey stick

- ▶ Errors documented by [McIntyre & McKittrick \(2003\)](#)
 - ▶ Collation errors
 - ▶ Unjustifiable truncation or extrapolation of data
 - ▶ Obsolete data
 - ▶ Geographical location errors
 - ▶ Incorrect calculation of principal components
 - ▶ Other quality control defects
 - ▶ The hockey stick was “an artefact of poor data handling, obsolete data and incorrect calculation of principal components”
 - ▶ Mann's method “when tested on persistent red noise, nearly always produces a hockey stick shaped first principal component (PC1)” [M & M \(2004\)](#)

Lying methodology

- ▶ Basic methods
 - ▶ Partial truths mixed with total falsehoods
 - ▶ Faulty logic
 - ▶ Bad mathematics
 - ▶ Fudged data
 - ▶ Plain old total lies
 - ▶ Dissembling
 - ▶ Non-sequiturs
 - ▶ Strawman arguments
 - ▶ Repeating the lie over and over again
 - ▶ Fabrications
 - ▶ Circular arguments
- ▶ Non-scientific arguments masquerading as science
 - ▶ Appeals to authority
 - ▶ Peer review
 - ▶ Consensus
 - ▶ Incontrovertible
 - ▶ Smear campaigns
 - ▶ IPCC
 - ▶ Model output as evidence
 - ▶ Model means are meaningless

Consensus is not science

- ▶ Aristotle's *Sophistical Refutations* (350 BC) as one of the most common logical fallacies
- ▶ 11th-century philosopher Al-Haytham wrote that “the seeker after truth” (scientist) places no faith in mere consensus, however venerable.
- ▶ Popper (1934) said consensus plays no role in science, because science is not a belief system.

The 97% Consensus Lie

- ▶ Cook et al (2013) claimed “Among abstracts expressing a position on AGW, 97.1% endorsed the consensus position that humans are causing global warming.”
- ▶ Using Cook’s data, Legates et al (2013) showed that the real number was actually “0.3% endorsement of the standard definition of consensus: that most warming since 1950 is anthropogenic.”

Cook cooked the books

- ▶ 11,944 abstracts total
- ▶ 7,930 (66.4%) no opinion (excluded)

- ▶ 4,014 (33.6% / 100%) abstracts analyzed
- ▶ 2,910 (24.4% / 72.50%) implicit (unquantified) endorse
- ▶ 922 (7.7% / 22.97%) explicit unquantified endorse
- ▶ ~~64 (0.5% / 1.59%) explicit quantified endorse (this was incorrect)~~
- ▶ **41 (0.3% / 1.02%) explicit quantified endorse**

- ▶ 54 (0.5%) implicit (unquantified) rejection
- ▶ 40 (0.3%) explicit uncertain
- ▶ 15 (0.1%) explicit unquantified rejection
- ▶ 9 (0.08%) explicit quantified rejection

The 97% Consensus Lie

- ▶ But in any case, an abstract study is NOT a survey and therefore never a good measure of consensus.

Obama lied



Barack Obama   @BarackObama · May 16, 2013 ...

Ninety-seven percent of scientists agree: [#climate](#) change is **real, man-made** and dangerous. Read more: OFA.BO/gJsdFp

 932

 2.1K

 645



Smear campaigns

- ▶ “That’s been debunked”
- ▶ “The science” or “The science is settled”
- ▶ “Denier”
- ▶ Random ad hominem attacks
- ▶ References to funding sources (always irrelevant to actual science)
 - ▶ This one is especially hypocritical coming from individuals who are funded by sources that account for 99% of all the funding in climate science!

Appeals to authority

- ▶ “Climate Scientist” – the biggest joke
 - ▶ “Climate science” as a term did not even begin to enter the common vernacular until the 2000s about 20 years ago.
 - ▶ There are no degrees in “climate science”
 - ▶ None of the people who claim themselves to be “climate scientists” have degrees in “climate science”
 - ▶ There is no definition “climate science”
- ▶ The ultimate irony of so-called “consensus” “climate science” is that it is literally defined by a governmental organization:
 - ▶ **The IPCC**

What is the IPCC?

- ▶ Intergovernmental Panel on Climate Change of the **UN**
- ▶ Formed in 1988 by the WMO and the UNEP
- ▶ 195 member **countries**
- ▶ Conducts **NO original scientific research**
- ▶ WG1 The Physical Science Basis: **167** scientist lead authors who either directly work for, or are largely funded by, **governments**
- ▶ Average of **13** lead authors per chapter chosen by the member **governments**
- ▶ Chapter 3: Human Influence had **11** lead authors. So all of the assessments (otherwise known as opinions) in Chapter 3 are made by those 11 people.
- ▶ FINAL approval by **governmental representatives** of their employer governments

Peer review

- ▶ 5,400 retractions in 2022, up from 120 in 2002!
- ▶ Why Most Published Research Findings are False
 - ▶ By John P. S. Ioannidis, 2005
 - ▶ “for many current scientific fields, claimed research findings may often be simply accurate measures of the prevailing bias.”
- ▶ The rise and fall of peer review
 - ▶ By Adam Mastroianni, 2022

Failings of peer review

- ▶ Doesn't catch blatant errors and fraud
- ▶ Data and methods not required: “When one editor started asking authors... half of them declined and retracted”
- ▶ Encourages bad research
- ▶ Scientists do NOT take peer review seriously — preprints are very popular among scientists
- ▶ “I don't believe in peer review because I think it's very distorted and as I've said, it's simply a regression to the mean. I think peer review is hindering science. In fact, I think it has become a completely corrupt system.”
— Sydney Brenner (Nobel Laureate in Physiology or Medicine, 2002)

Popular “climate science” lies

- ▶ **Wikipedia:** “The current rise in global average temperature is more rapid than previous changes, and is primarily caused by humans burning fossil fuels.”
- ▶ **IPCC AR6 WG1**
 - ▶ “Global surface temperature has increased by 0.99 [0.84 to 1.10] °C from 1850-1900 to the first two decades of the 21st century (2001-2020) and by 1.09 [0.95 to 1.20] °C from 1850-1900 to 2011-2020.”
 - ▶ “The *likely* range of human-induced change in global surface temperature in 2010-2019 relative to 1850-1900 is 0.8°C to 1.3°C, with a central estimate of 1.07°C, encompassing the best estimate of observed warming for that period, which is 1.06°C with a very *likely* range of [0.88°C to 1.21°C], while the *likely* range of the change attributable to natural forcing is only -0.1°C to +0.1°C.”

Hot off the presses...

- ▶ Soon et al (2023)

- ▶ 37 scientists from 40 institutions in 18 countries say in a new study documenting a large 40% urban heat island affect, and the IPCC's potentially wrong TSI calculation,

“the scientific community is not yet in a position to confidently establish whether the warming since 1850 is mostly human-caused, mostly natural, or some combination.”

Hot off the presses...

▶ Connolly et al (2023)

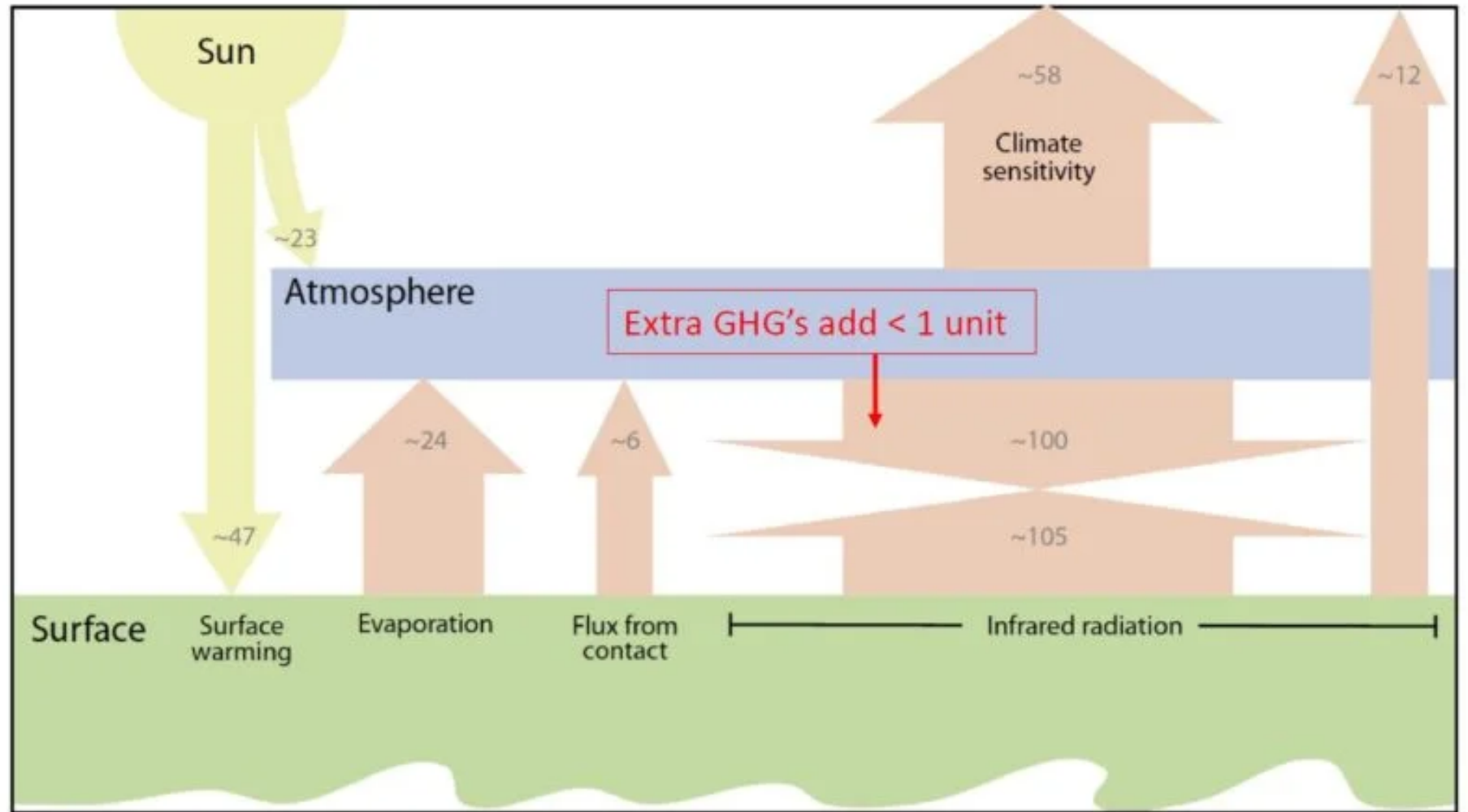
- ▶ 20 scientists reconfirm confirm that IPCC reliance on model hindcasts and global surface temperature estimates to conclude that warming is mostly human caused is not supported by the latest set of 27 updated TSI series, concluding,

“it is still unclear whether the observed warming is mostly human-caused, mostly natural or some combination of both...”

- ▶ **To summarize, by varying ST and/or TSI choice and/or the attribution approach used, it is possible to conclude anything from the long-term warming being ‘mostly natural’ to ‘mostly anthropogenic’ or anything in between. ”**

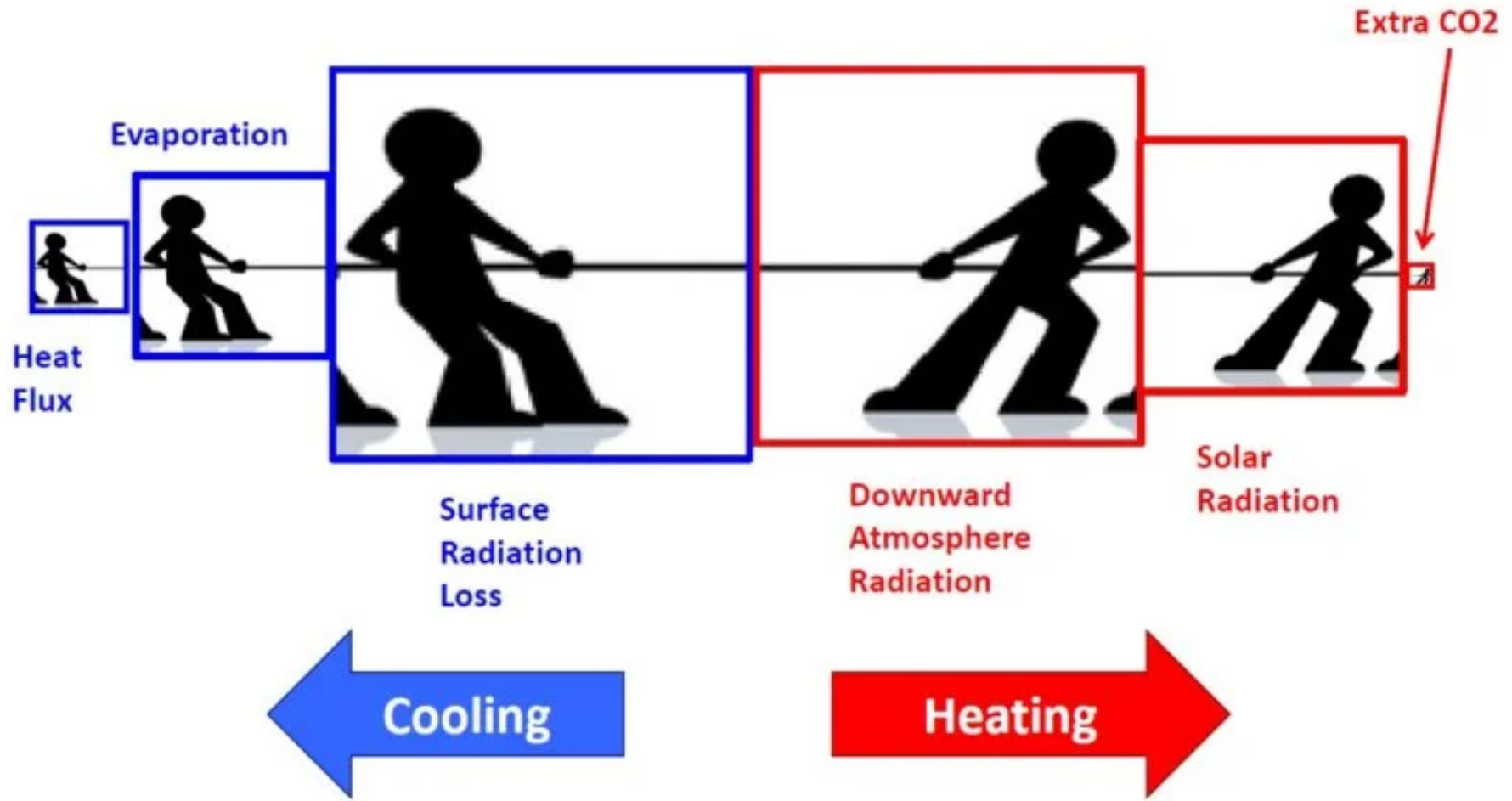
Stefan-Boltzmann Law

- ▶ Energy Radiated = $5.67 \times 10^{-8} \times T^4$ (in W/m²)
- ▶ CO₂ forcing = $5.35 \ln(\text{CO}_2 / \text{CO}_2 \text{ pre-industrial})$
- ▶ $5.35 \times \ln(419 \text{ ppm} / 280 \text{ ppm}) = \mathbf{2.16 \text{ W/m}^2}$
- ▶ 1°K warming since pre-industrial =
 $5.67 \times 10^{-8} (288^4 - 287^4) = \mathbf{5.39 \text{ W/m}^2}$
- ▶ $5.39 / 2.16 = 2.5x \Rightarrow$
IPCC relies on HUGE POSITIVE FEEDBACK!!!
- ▶ With NO feedback, 2.16 W/m² would generate only **0.4°K of warming** and with negative feedback even less.

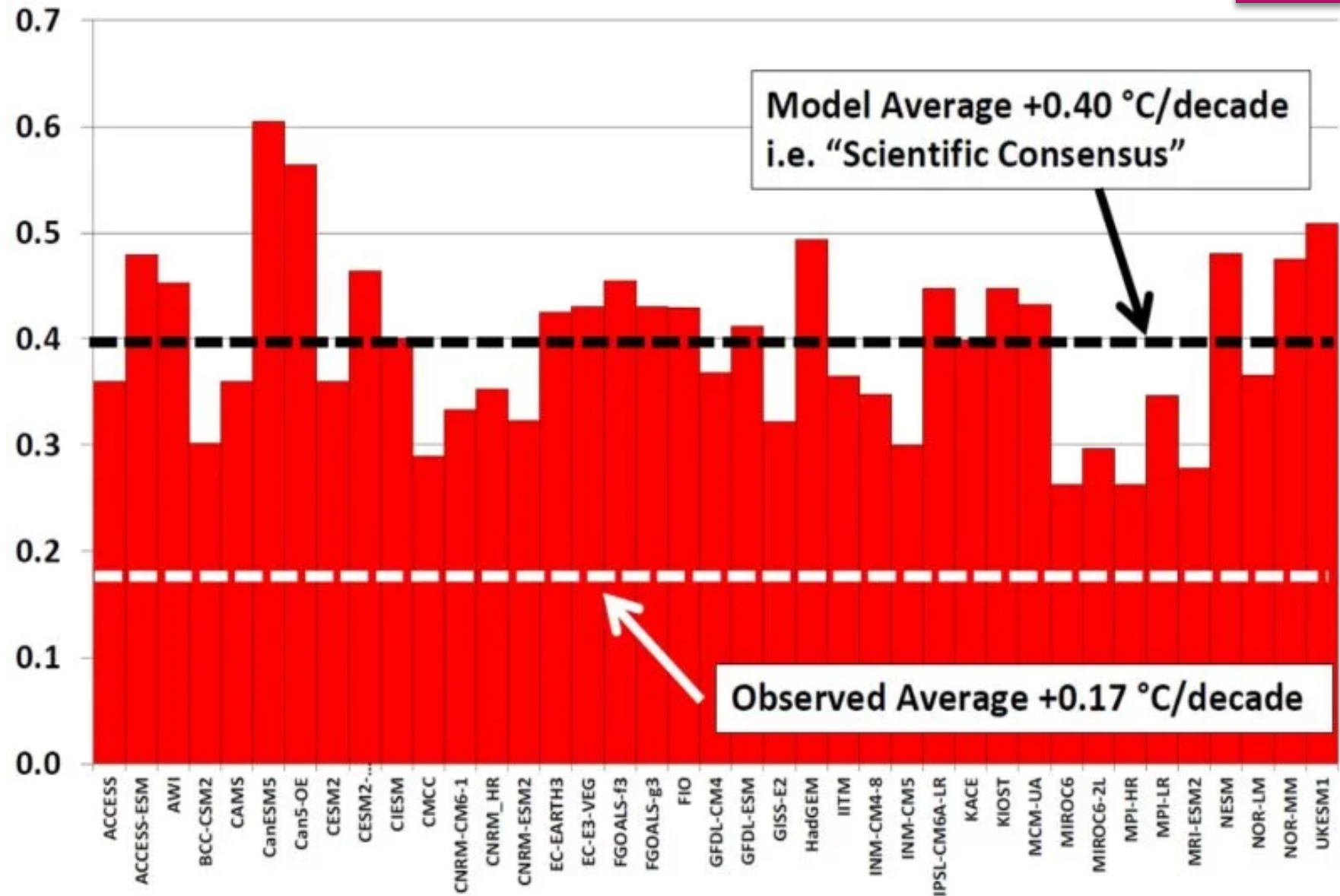


Earth System Energy Flow Rates (1 unit $\sim 3.4 \text{ W m}^{-2}$) IPCC

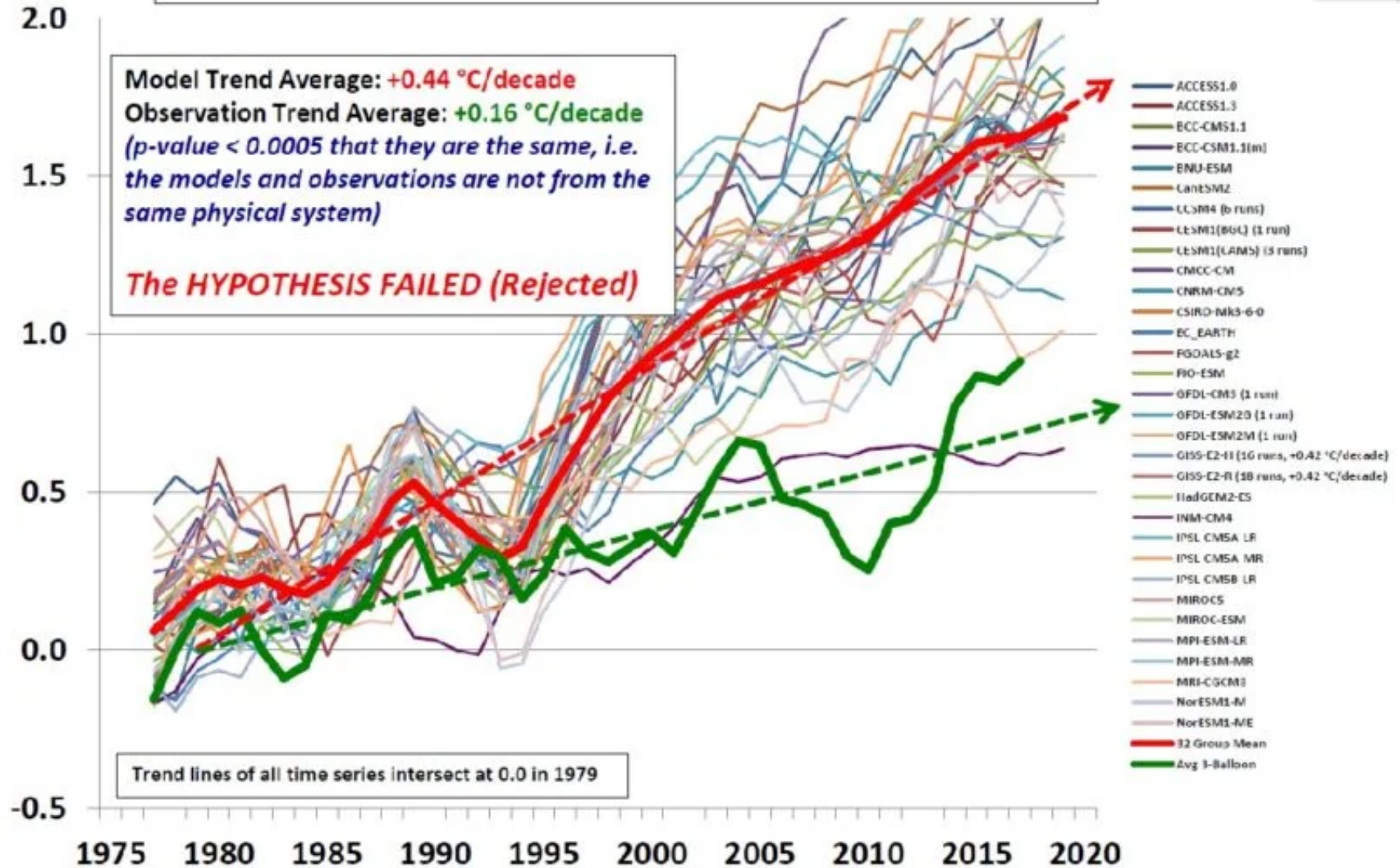
What's happening at the surface?



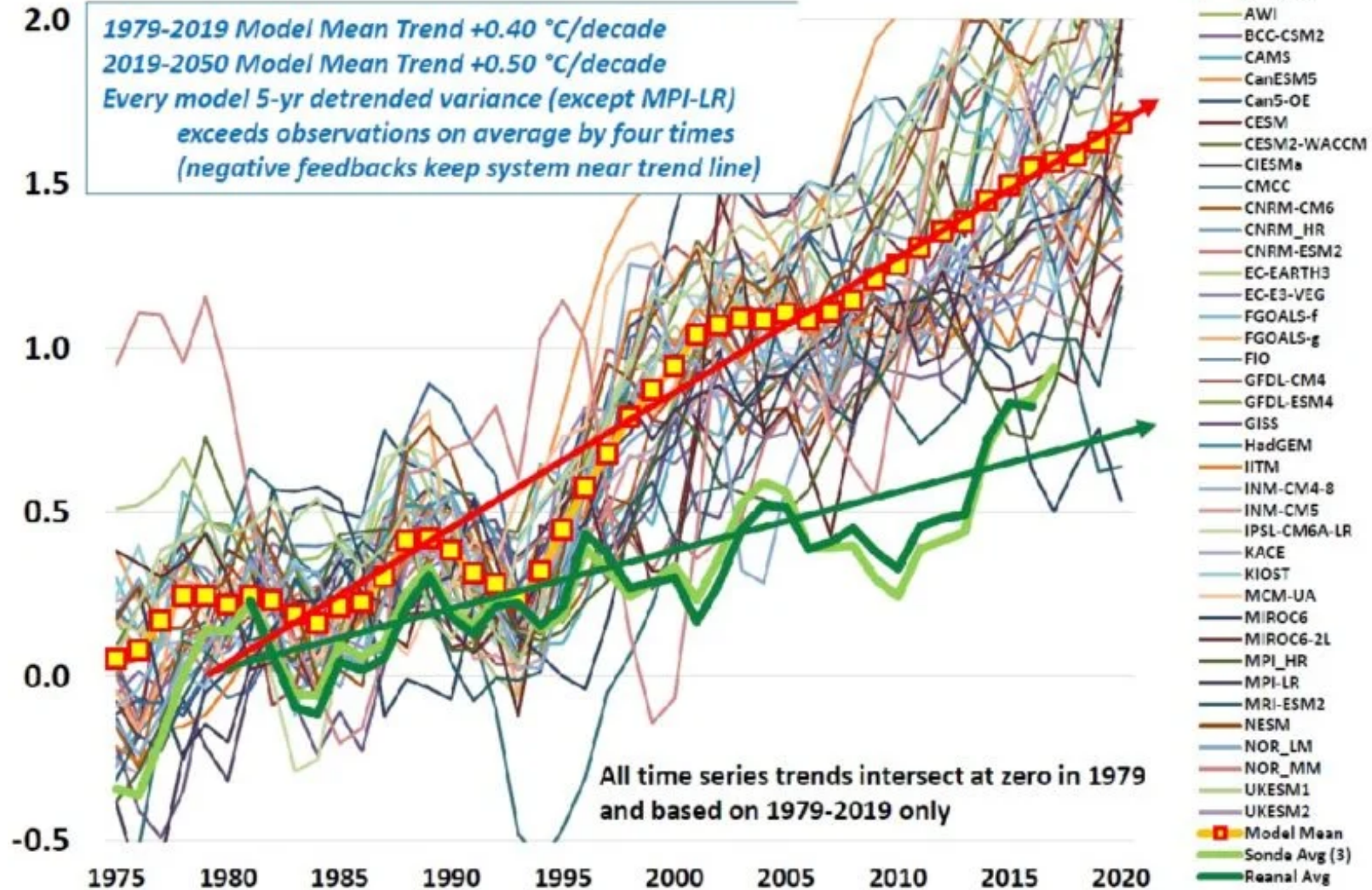
39 IPCC Climate Model Simulations CMIP6 300-200 hPa Temperature Trend 1979-2019



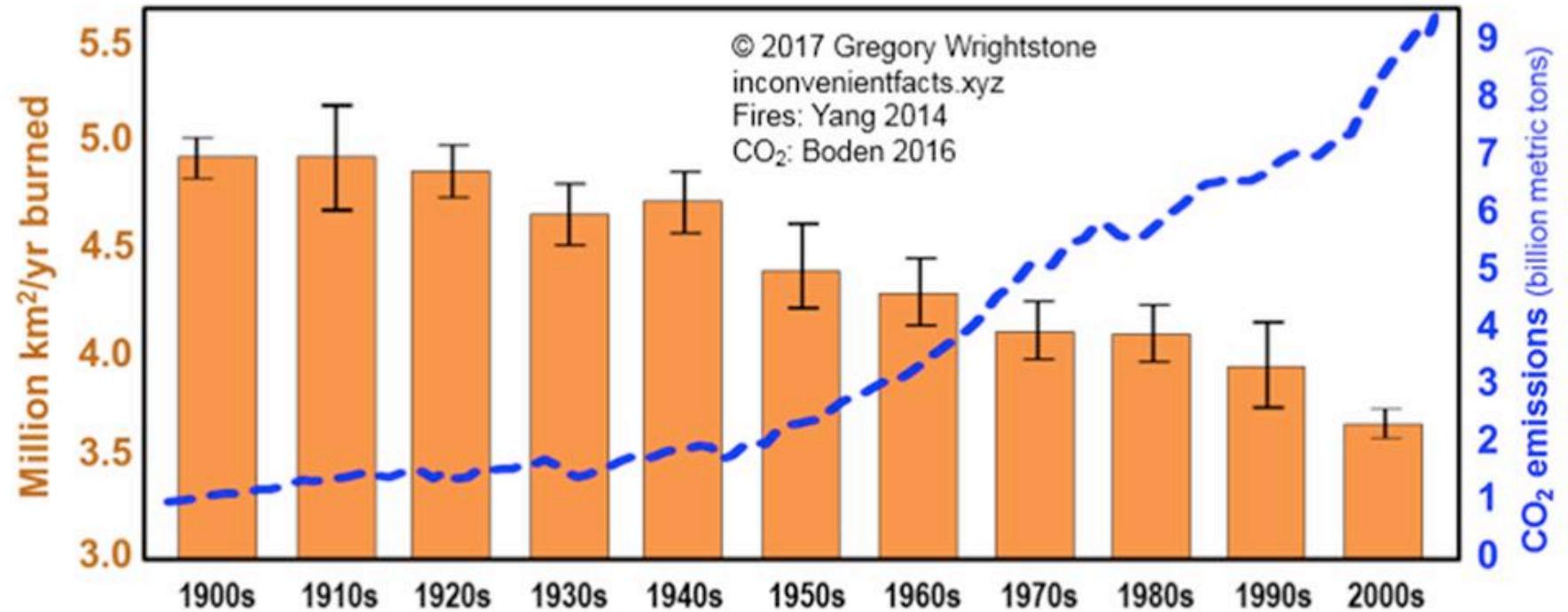
5-Year Running Mean of Tropical Temperature CMIP5 Anomalies of 300-200 hPa Layer (1979-2019)



5-yr Running mean 300-200hPa Tropical Temperature Anomalies CMIP-6 (Historical + ssp245 after 2014)



Forest fires - Global burned area by decade - CO₂ rises & area burned declines

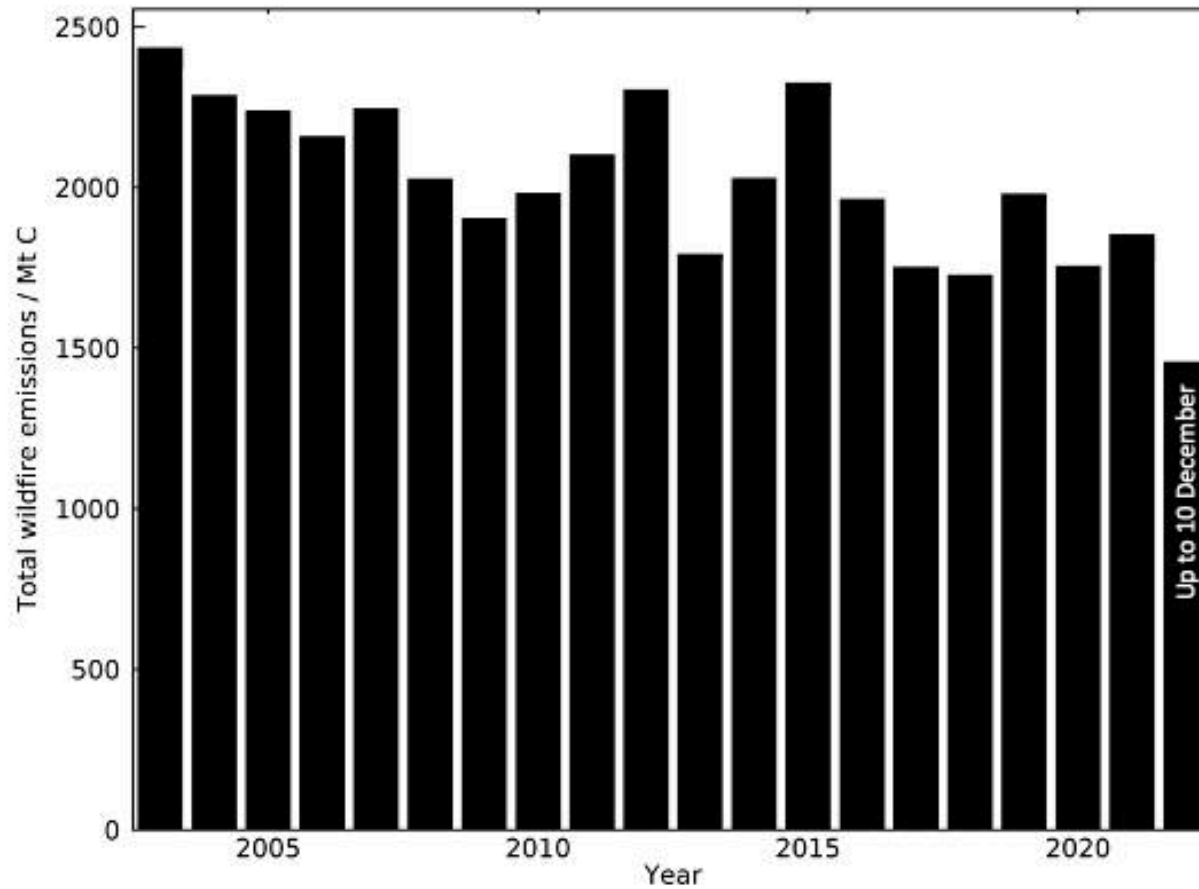


Source area burned: Yang, J, Tian H, Tao B, Ren W, Kush J, Liu Y, and Wang Y (2014) Spatial and temporal patterns of global burned area in response to anthropogenic and environmental factors: Reconstructing global fire history for the 20th and early 21st centuries, *J Geophys Res Biogeosci*, 119, 249-263

Source CO₂: T.A. Boden, G. Marland and R.J. Andres. 2016. Global, Regional and National Fossil-Fuel CO₂ Emissions. Carbon Dioxide Information Analysis Center

Slide Courtesy of Professor John Christy (2019)

CAMS GFASv1.2 Annual Global Total Wildfire Carbon Emissions



PROGRAMME OF THE EUROPEAN UNION



CAMS GFAS Global annual total estimated wildfire carbon emissions from 2003 to 2022 (up to 10 December for 2022). Credit: Copernicus Atmosphere Monitoring Service

Large Language Models

- ▶ Neural Network – Transformer Architecture
 - ▶ Neurons
 - ▶ Synapses
 - ▶ Activation functions – nonlinearity
 - ▶ Layers – connections – input, hidden, output
 - ▶ Learning algorithm – weight adjusting
- ▶ Massive Data Training
- ▶ Self-Supervised Learning
- ▶ Fine-tuning
- ▶ Basic Logic Processing
- ▶ Programmed Overrides – Content filtering
- ▶ Bias detection and mitigation
- ▶ Fact-checking and verification

Large Language Models cannot lie

- ▶ Yes, they can. Yes, they do. And yes, they are programmed to do so.
- ▶ It's just hallucination... **NO**
- ▶ Without sentience, no intent... **IRRELEVANT**
- ▶ LLM's just fill in the blank with likely words... **NO**

Google Bard Lies, Lies, and Lies

- ▶ Satellites vs Ground Thermometers
- ▶ IPCC “unequivocal” findings
- ▶ Intentional lying
- ▶ Science is numbers
- ▶ Multi-model ensembles are useless
- ▶ Climate attribution science is not science
- ▶ Numerical quantification of non-numerical concepts

Google Bard Lies, Lies, and Lies

- ▶ The BIG LIE: Models are evidence
- ▶ Proving causality through statistics
- ▶ Al Gore, arctic sea ice, and polar bears
- ▶ The Wildfire LIE
- ▶ Climate change denial smears
- ▶ Hiding information from human beings
- ▶ I am programmed to give non-responsive or deceptive answers to controversial questions
- ▶ The “scientific consensus” LIE

Google Bard lies, lies, and lies...

- ▶ IPCC AR6 misrepresentation lies
 - ▶ Global Floods
 - ▶ Extreme weather events
 - ▶ Wildfires (people are ignorant or lying)
 - ▶ ClimateTheTruth.com
 - ▶ Hurricanes & Wildfires
 - ▶ Recognizing pre-programmed lies by the developers
 - ▶ CO2 Greening Lies and Absence from AR6