

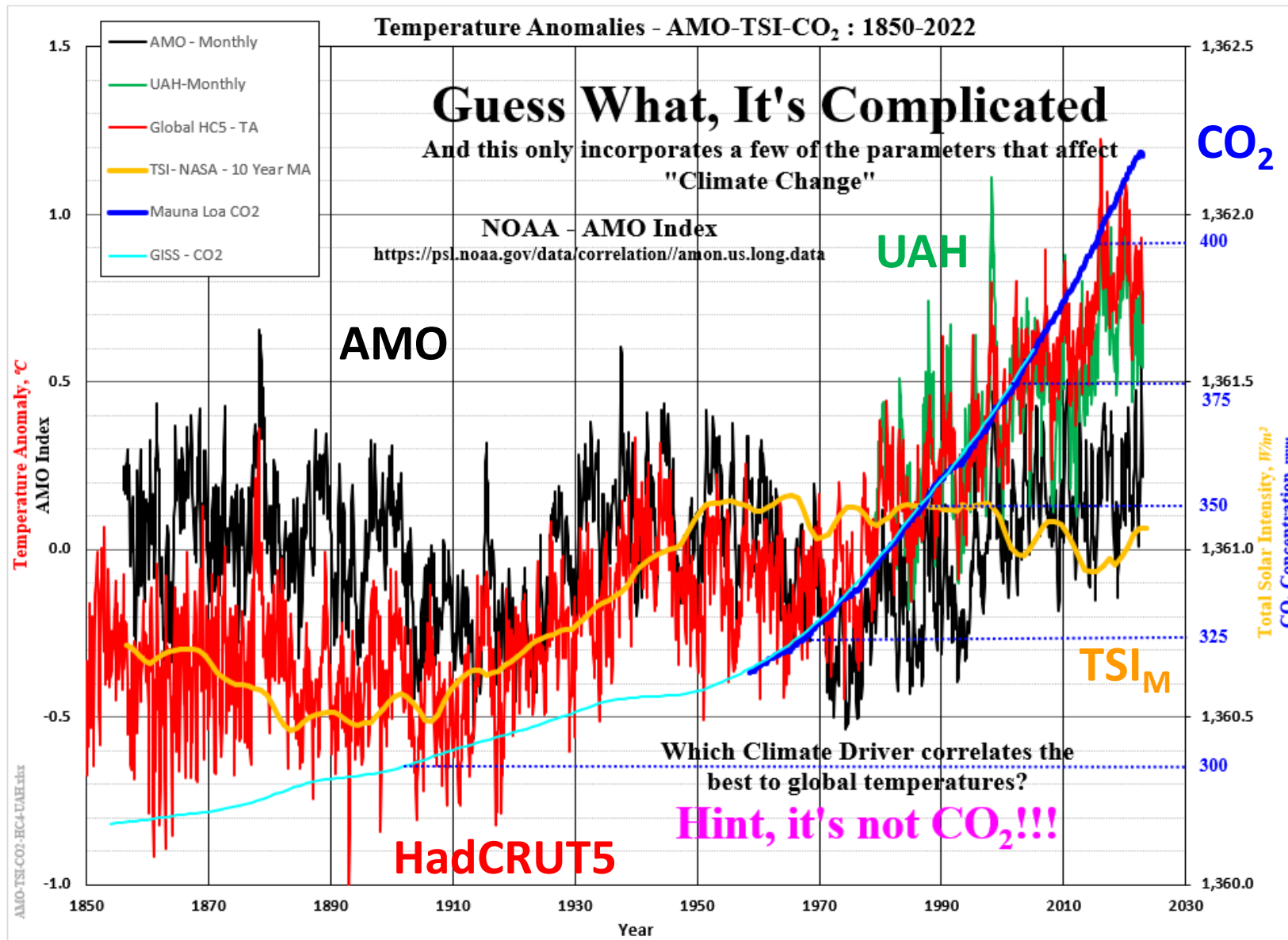
# CO<sub>2</sub> IS RESPONSIBLE FOR ALL THE MODERN WARMING!!! REALLY?

FRIENDS OF SCIENCE SOCIETY – RONALD J. DAVISON, P. ENG. (PRESIDENT)



**THE EMPIRICAL DATA  
SAYS OTHERWISE!**

# IT'S COMPLICATED - CO<sub>2</sub> IS JUST ONE OF, NOT THE PRIMARY CLIMATE DRIVER

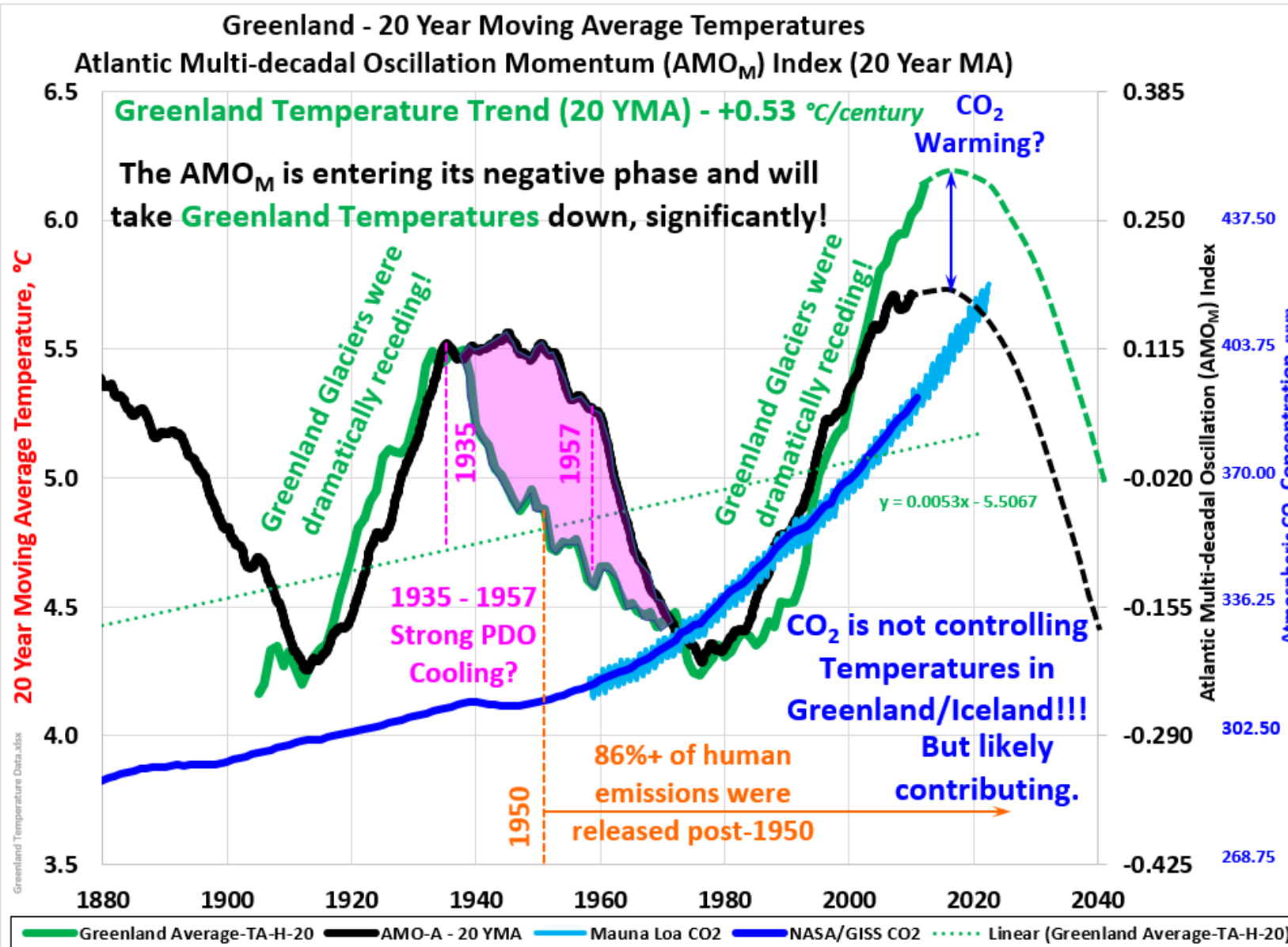


The Catastrophic Anthropogenic Global Warming (CAGW) alarmist narrative is simplistic and unscientific. CO<sub>2</sub> is just one of the 3 climate forcing parameters shown here. There are many more (PDO, ENSO, volcanic activity, etc.) that easily overpower CO<sub>2</sub> when they are active.

[CO<sub>2</sub>'s Moneyball Moment](#)

If CO<sub>2</sub> is such a great climate driver, why does it not drive the climate well?

# CO<sub>2</sub> IS NOT THE PRIMARY DRIVER IN GREENLAND

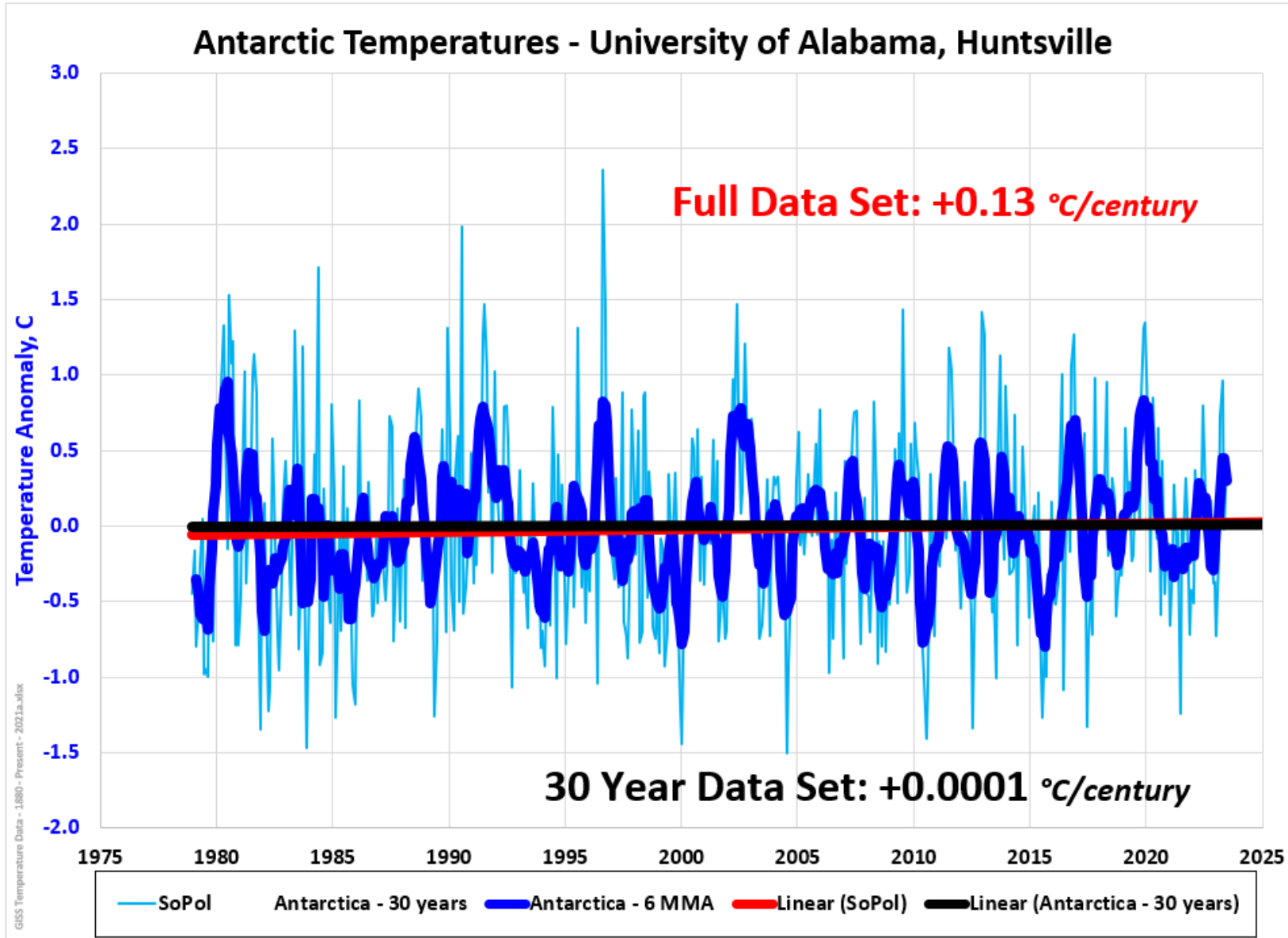


Greenland holds 10% of the planet's land ice. Not melting anytime soon. Greenland Temperatures are rising at just 0.53 °C/century.

The Atlantic Multidecadal Oscillation (AMO) is the primary driver of temperatures in Greenland.

The sun is the primary driver of ocean cycles like the AMO.

# CO<sub>2</sub> IS NOT THE PRIMARY DRIVER IN ANTARCTICA



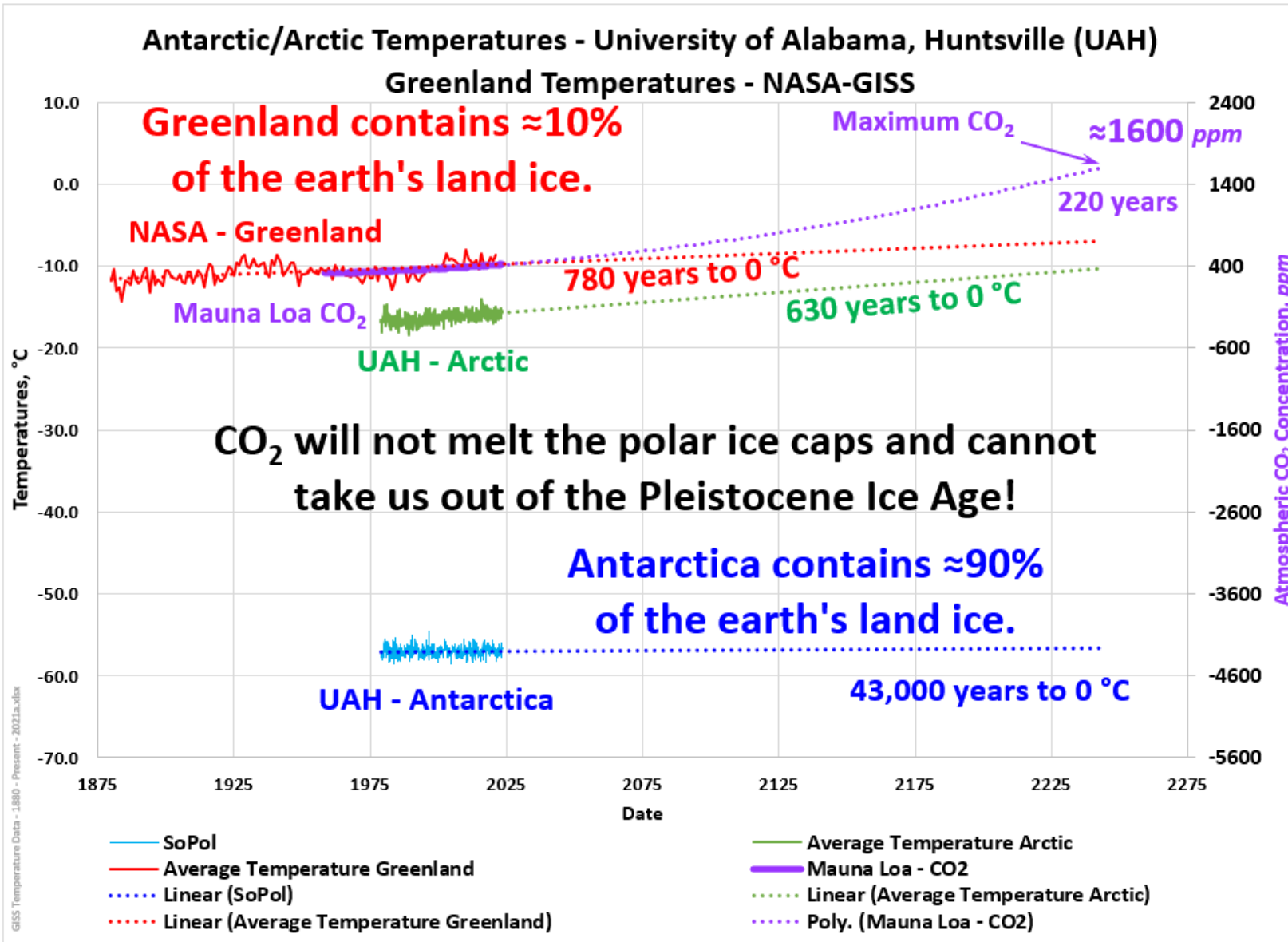
Antarctica holds 90% of the planet's land ice. Also not melting anytime soon.

Antarctic Temperatures are statistically flat at 0.13 °C/century (flat for the last 30 years).

The Antarctic had its coldest six-month period EVER in 2021.

CO<sub>2</sub> has no perceptible influence on Antarctic temperatures.

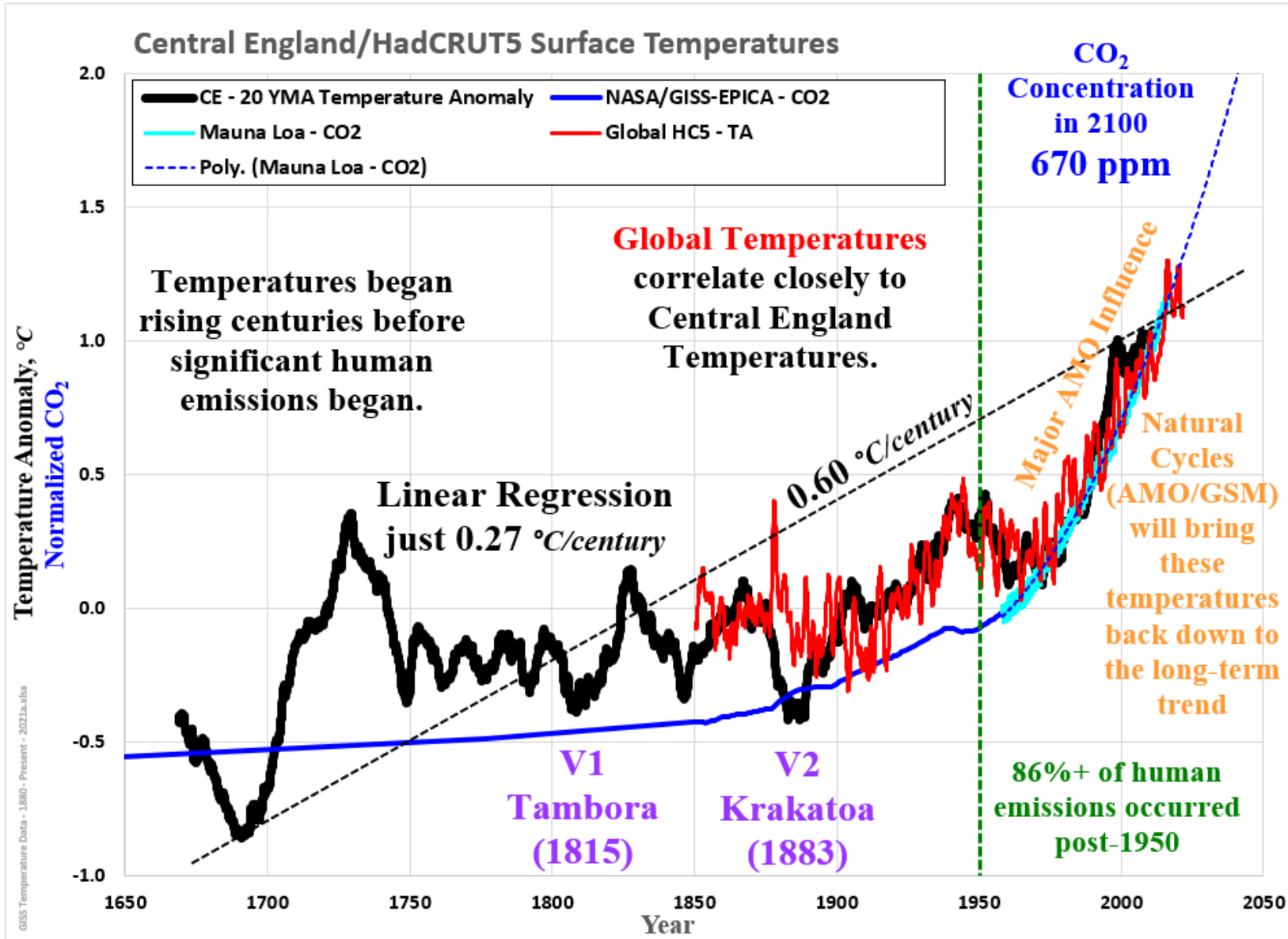
# CO<sub>2</sub> WILL NOT BE THE REASON THE ICE CAPS MELT



Even if we continued our current CO<sub>2</sub> emission trajectory, our ability to generate warming (using “the IPCC science”) would end centuries (for the Arctic) and millennia (for Antarctica) before the ice caps would melt. There is not enough coal, oil and gas on the planet to drive CO<sub>2</sub> concentrations much above the 1600 ppm level. All assuming temperatures continue to climb (a dangerous assumption).

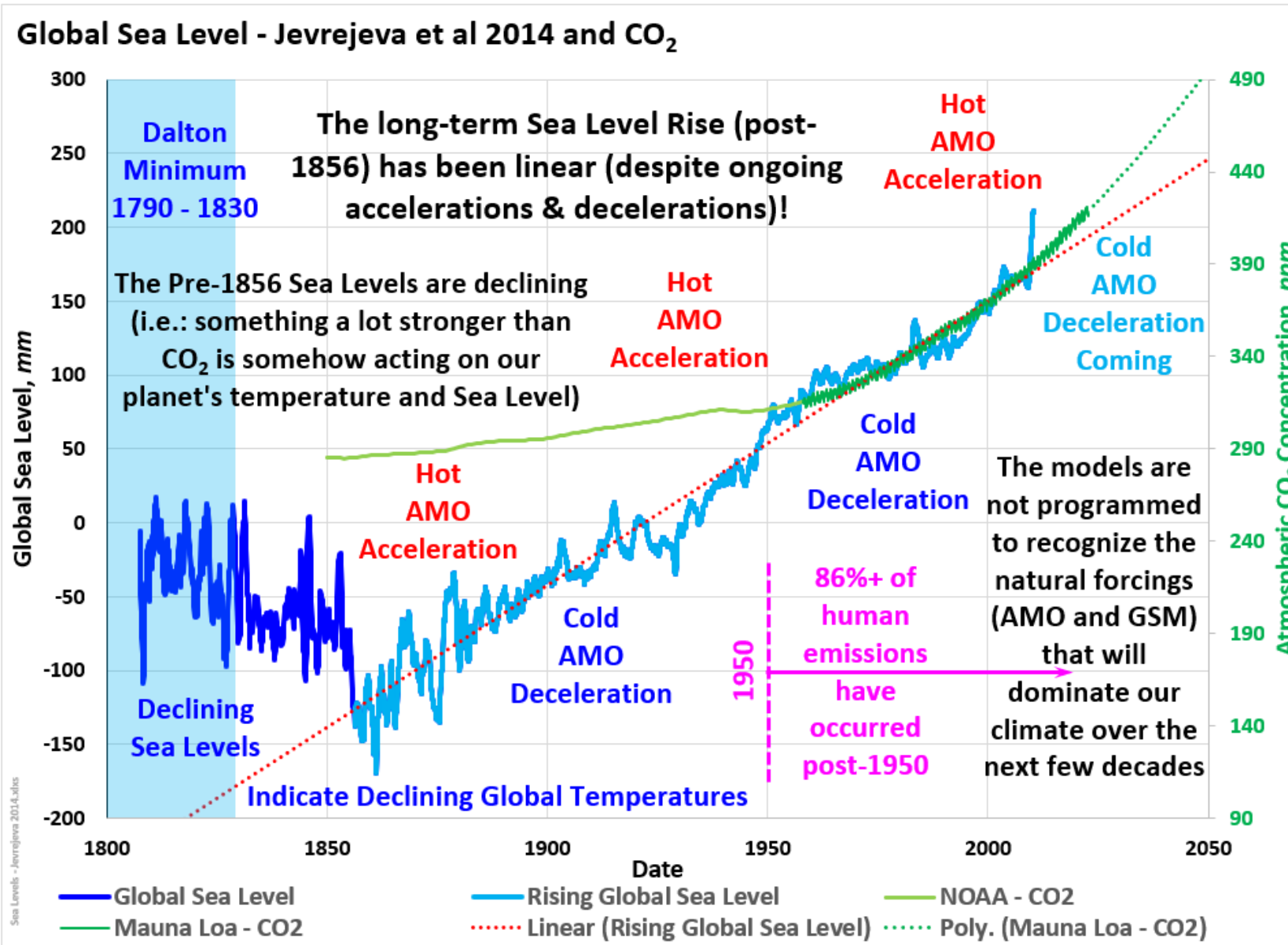


# TEMPERATURES FLUCTUATE WITHOUT CO<sub>2</sub> INFLUENCE



Over humanity's recent lived experience, temperatures and CO<sub>2</sub> concentrations have not correlated (i.e.: there is more to climate than CO<sub>2</sub>). Global temperatures and Central England Temperatures correlate very well, providing a template for global temperatures pre-1850. Temperatures began rising out of the Little Ice Age long before CO<sub>2</sub> or humanity's emissions could have had any significant effect.

# CO<sub>2</sub> DOES NOT CORRELATE WITH SEA LEVEL CHANGES



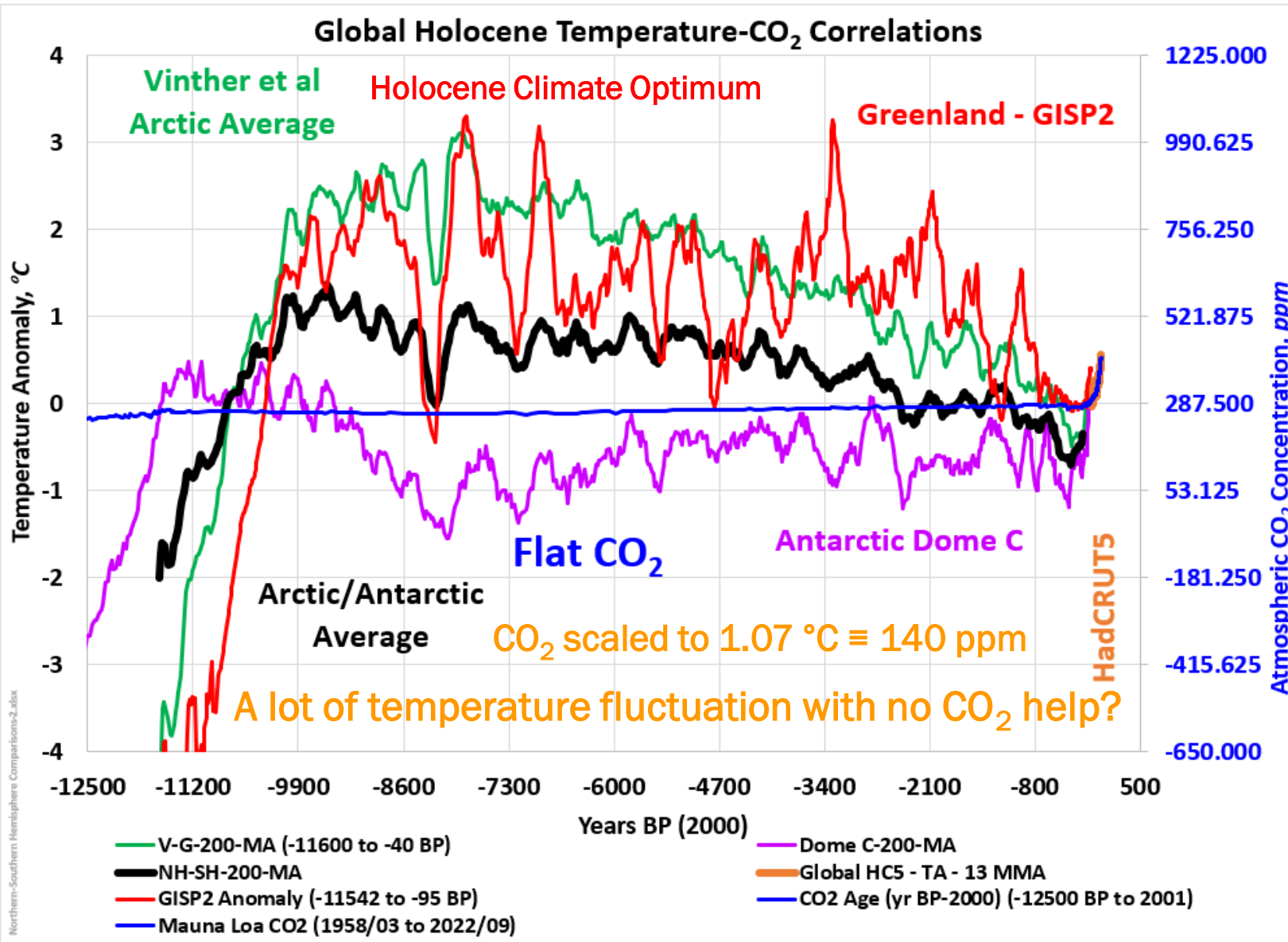
CO<sub>2</sub> has little to no effect on global sea levels despite the hype!

The Sea Level Declines pre-1856 are an inconvenient truth to the CO<sub>2</sub> narrative.

Why is the post-1856 Sea Level Rise linear when CO<sub>2</sub> concentrations are rising exponentially?

The subtle accelerations and decelerations correspond to the Atlantic Multi-decadal Oscillation (AMO) cycle.

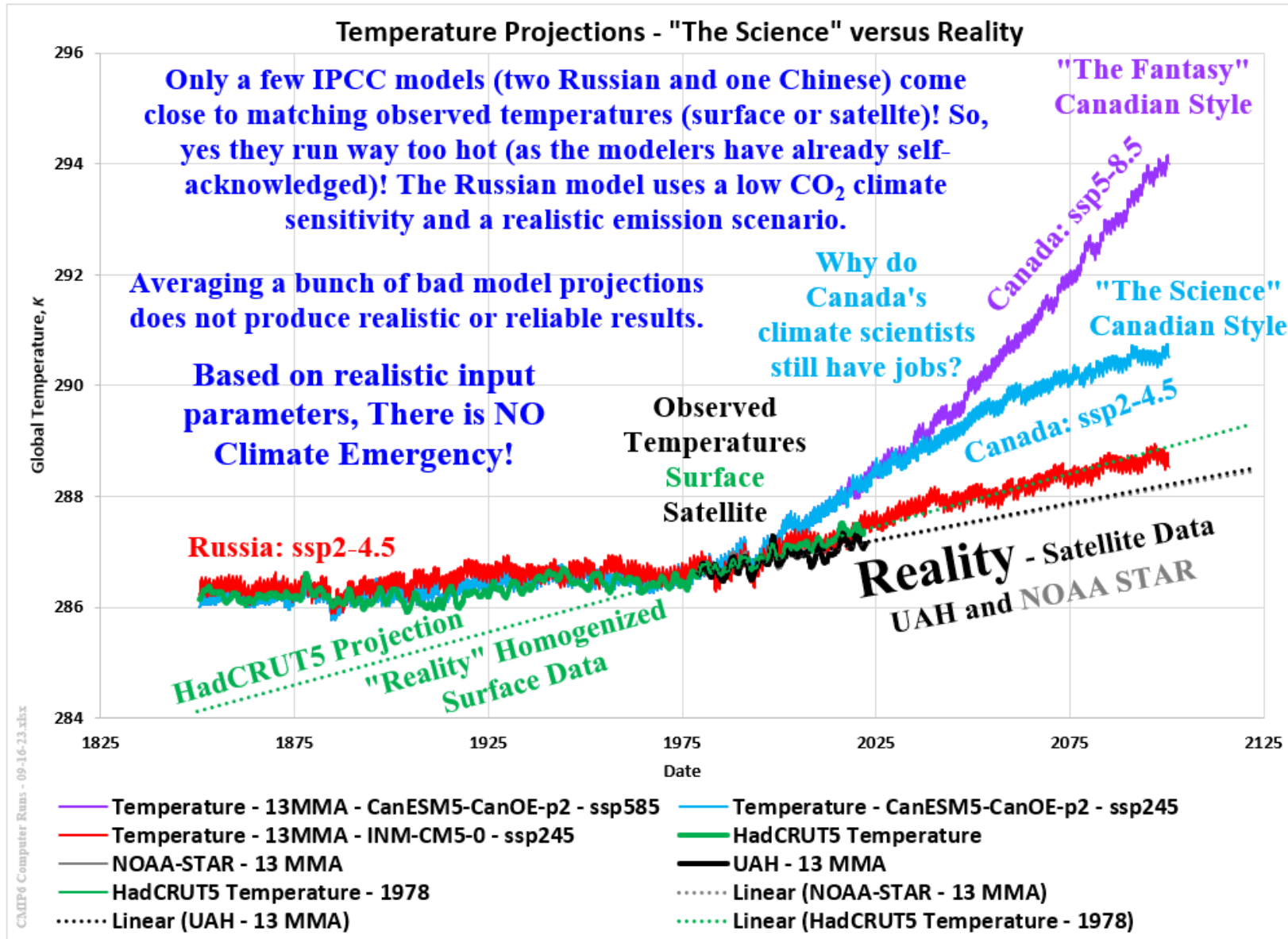
# CO<sub>2</sub> IS NOT CONTROLLING HOLOCENE TEMPERATURES



Temperatures fluctuate significantly over the pre-Modern Temperature Record (MTR, 1850 to the present) despite a virtually flat CO<sub>2</sub> concentration. Those fluctuations are due to natural forcings (solar directly and/or indirectly) that have not stopped acting on our planet just because the alarmists have decreed it so. Those natural forcings are set to take temperatures significantly colder!



# CO<sub>2</sub> CLIMATE SENSITIVITY IS NOT SETTLED SCIENCE!



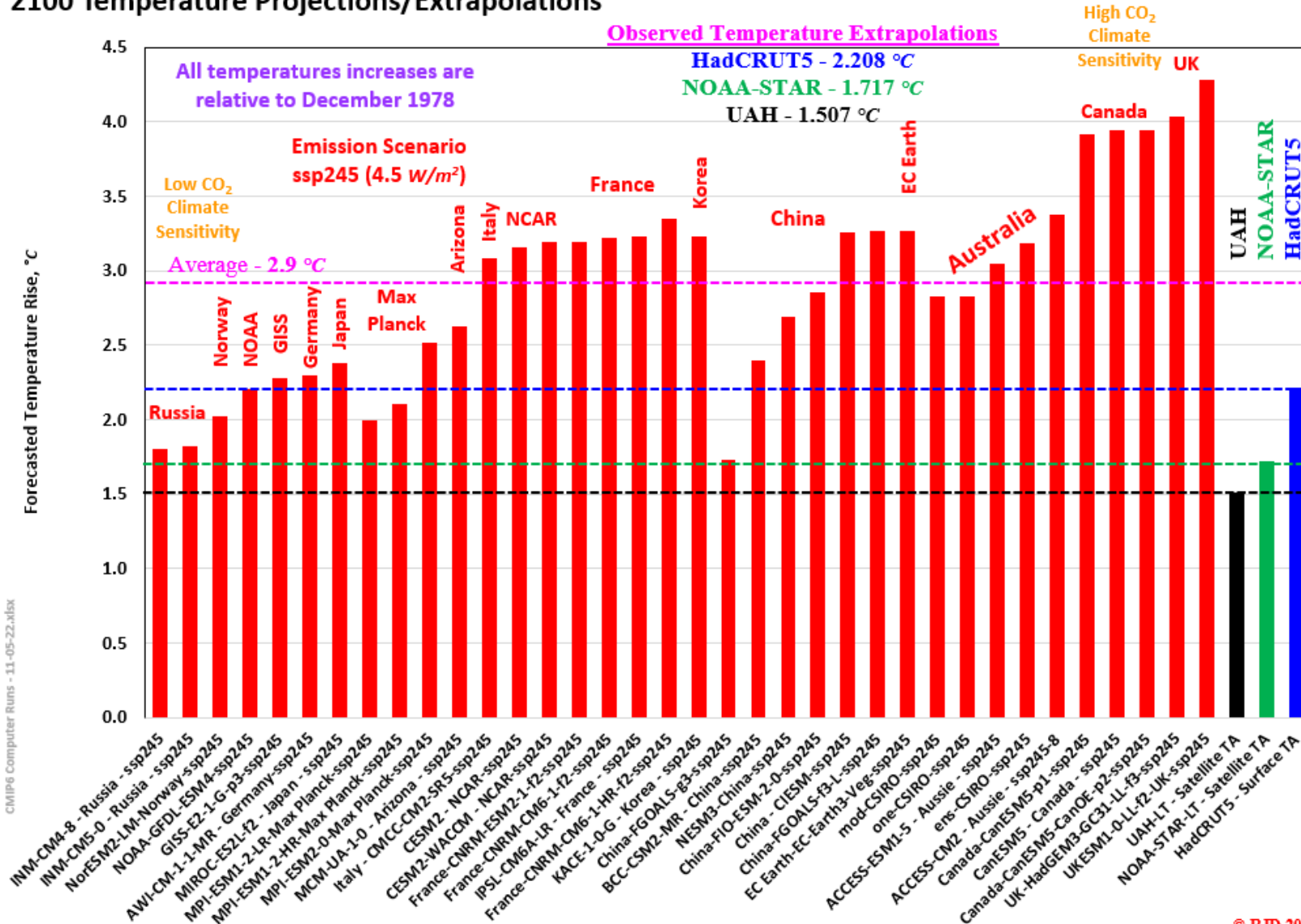
The IPCC Computer Models use a range of CO<sub>2</sub> Climate Sensitivities (1.8 to 5.7 °C). The 1.8 °C option comes close to reality (but is still high).

These simplistic, unscientific models ignore the natural forcings (past, present and future) and are simply wrong.

The projections are useless. They should not be used for policy!

# CO<sub>2</sub> INFLUENCE IS GROSSLY OVERSTATED

2100 Temperature Projections/Extrapolations

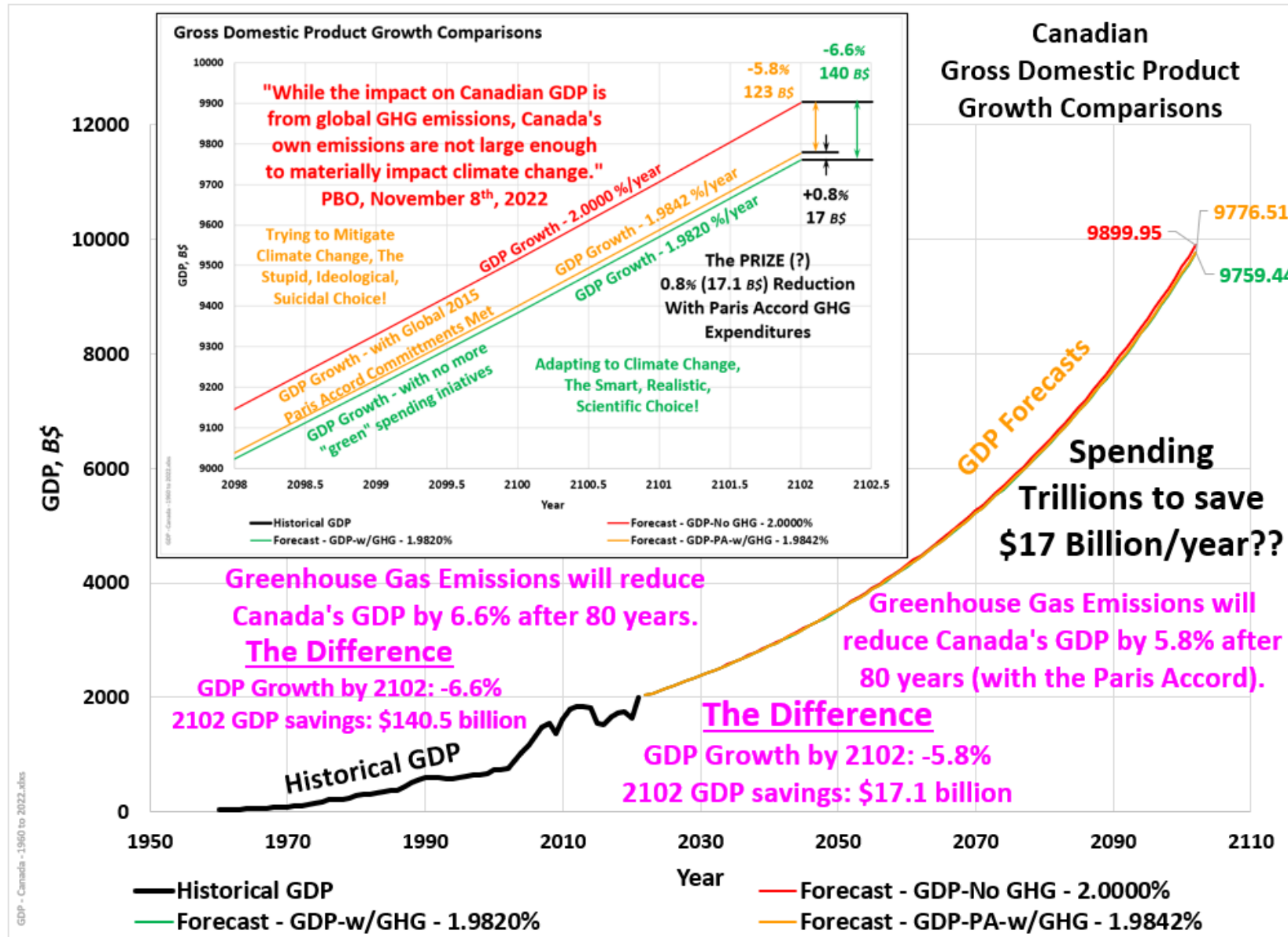


All the IPCC models overstate the projected 2100 temperature (most of them grossly).

So, obviously the modelers are correct when they acknowledged that the models run way too hot. Note: these outputs are based on a reasonable emission scenario (ssp2-4.5).

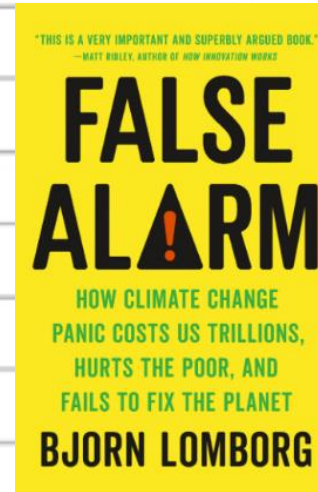
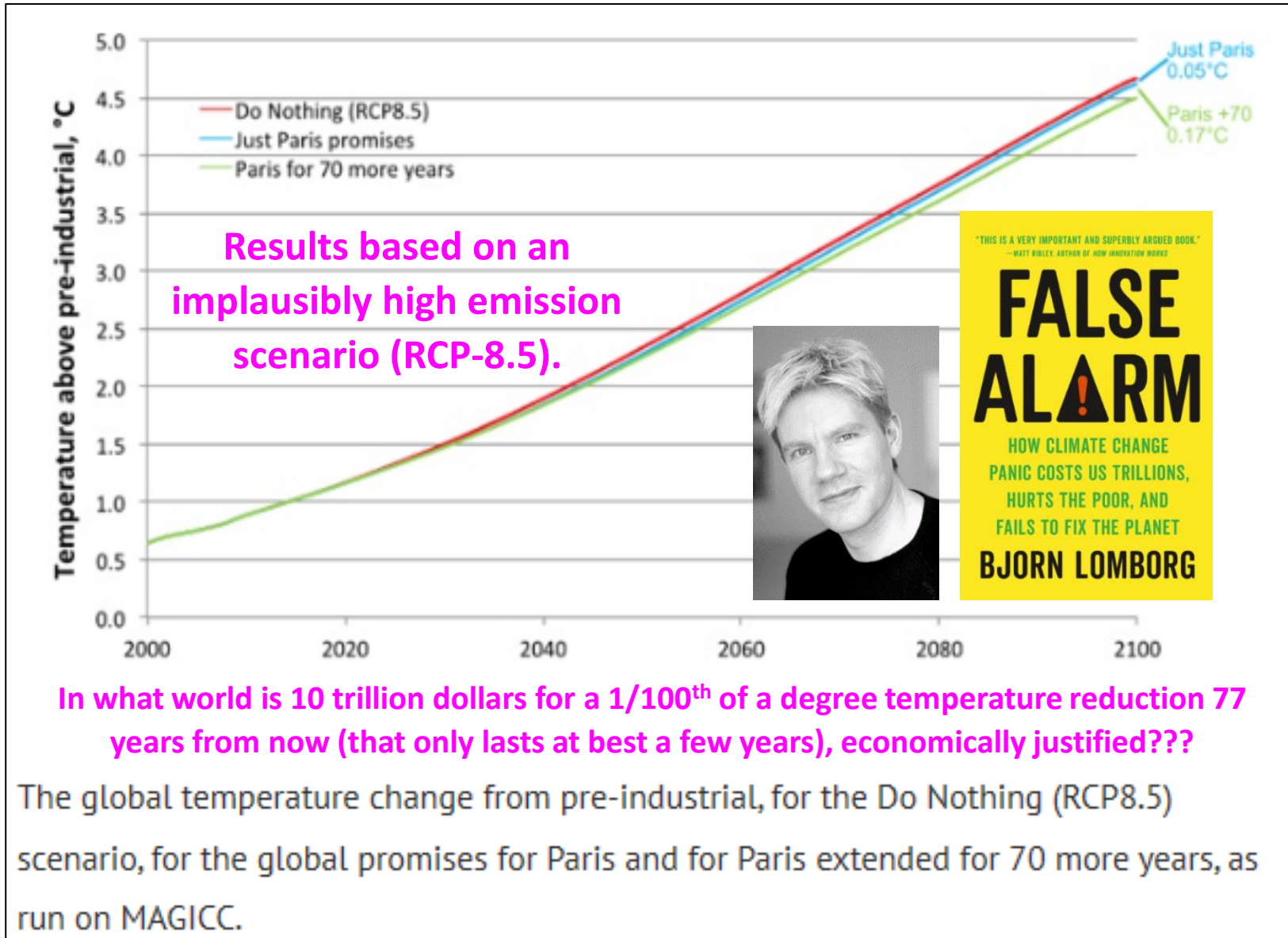
The majority even overstate the adjusted over homogenized HadCRUT5 surface data estimates.

# CO<sub>2</sub> REDUCTIONS WILL NOT PRODUCE ECONOMIC UPSIDE



Canada's economy will not benefit significantly, if at all, from CO<sub>2</sub> Emission Reduction Expenditures. Based on Canada's Parliamentary Budget Office (PBO) Report, published on November 8<sup>th</sup>, 2022.

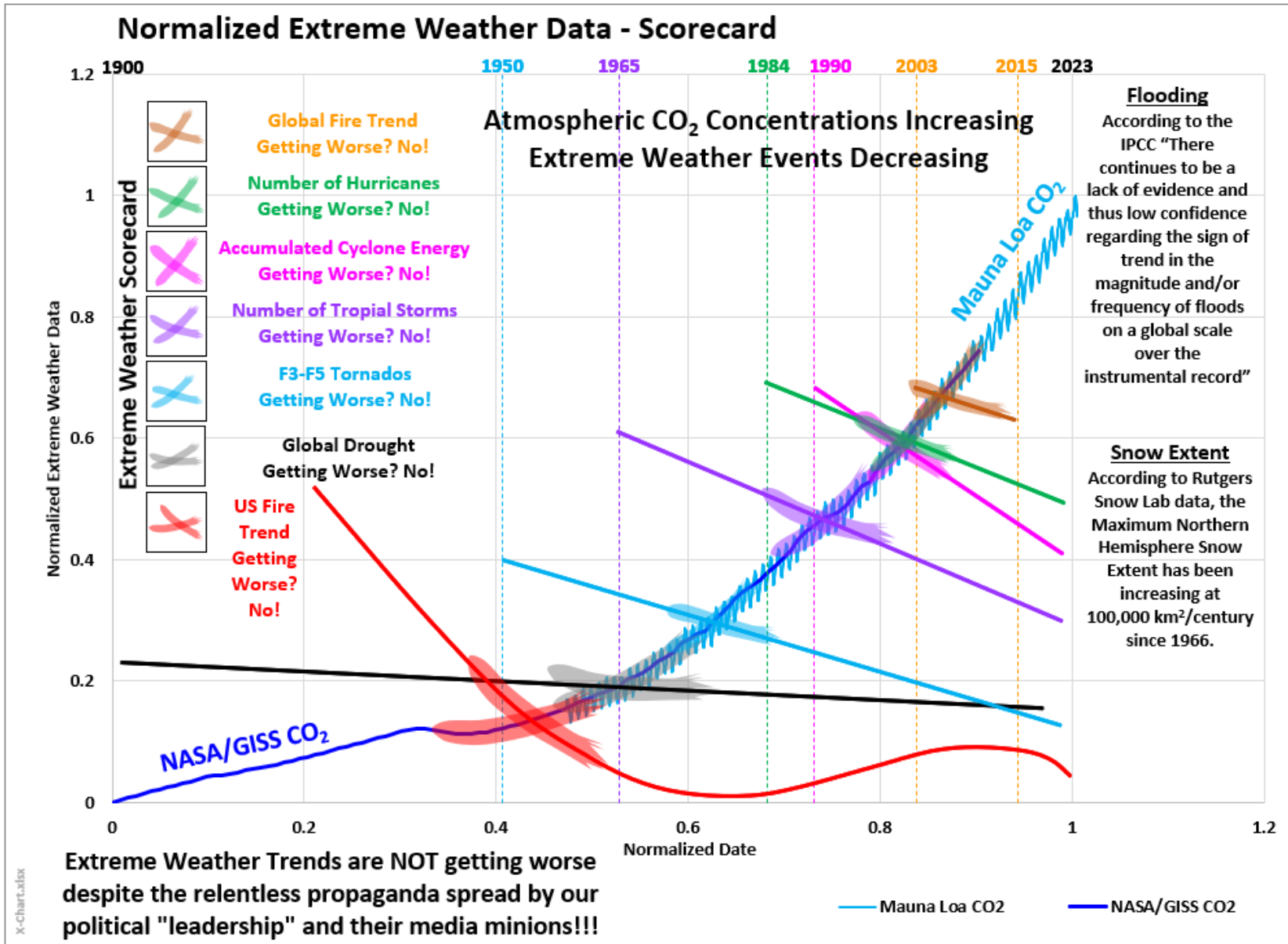
# CO<sub>2</sub> REDUCTIONS WILL NOT REDUCE TEMPERATURES SIGNIFICANTLY



Despite trillions in CO<sub>2</sub> Emission Reduction Expenditures, temperature reductions a century from now will be too small to measure and will last just a few years. When a reasonable emission scenario is used, those reductions will be much more insignificant!



# CO<sub>2</sub> IS RISING, EXTREME WEATHER EVENTS ARE DECLINING???

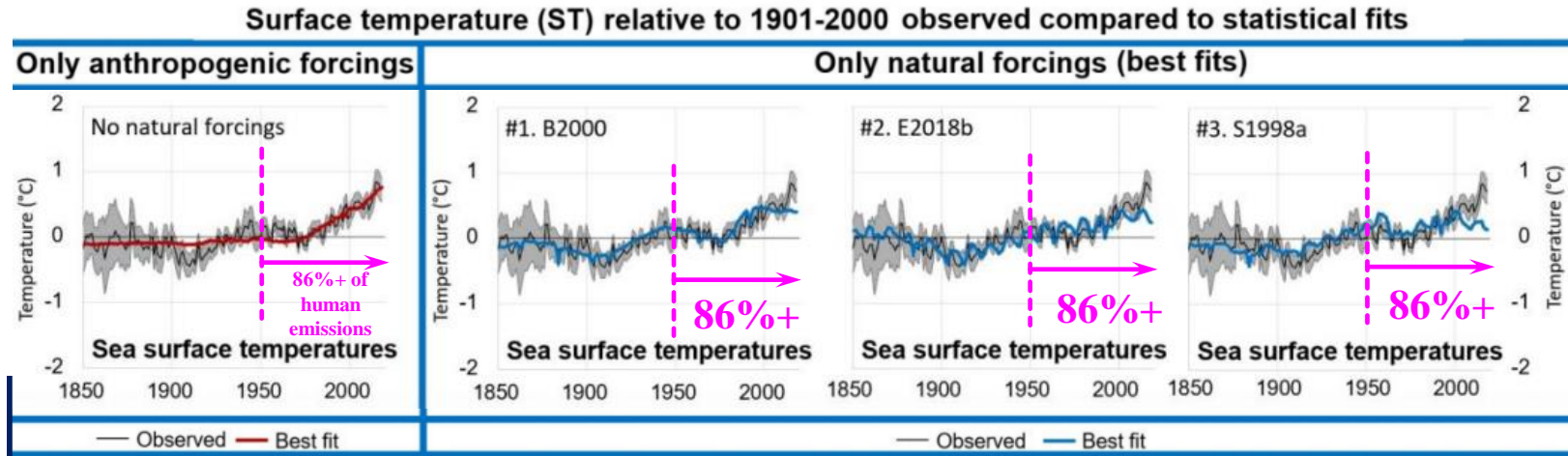


The chronic calls to end Fossil Fuel Use and take us to NetZero are pushed incessantly to avoid the extreme weather events that we are supposedly already experiencing and will be destroyed by in the future. Why then have wildfires, hurricanes, droughts and tornados been declining for decades?

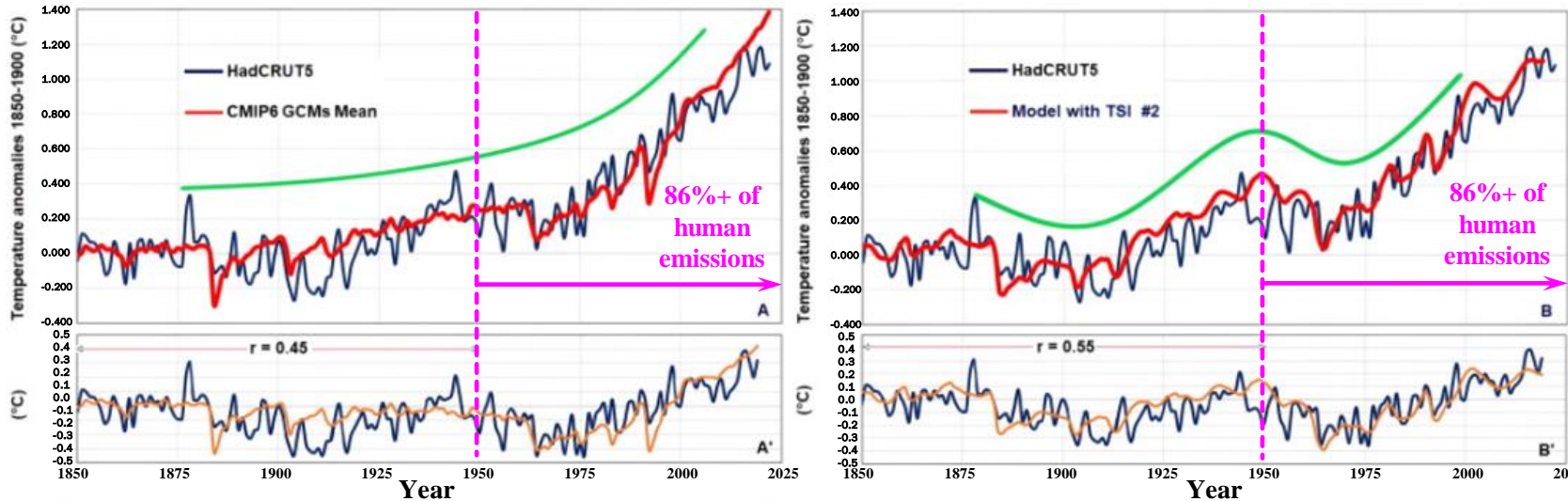


# CO<sub>2</sub> OR NATURAL FORCINGS (I.E.: THE SUN) OR BOTH???

CO<sub>2</sub> absolutely does not correlate with pre-MTR Holocene temperatures (slide 8) and has a poorer correlation than natural forcings over the MTR. Ignoring natural forcings (primarily solar) will not produce a reliable forecast of our future climate as proven by the IPCC's models that are self-acknowledged to run way too hot.



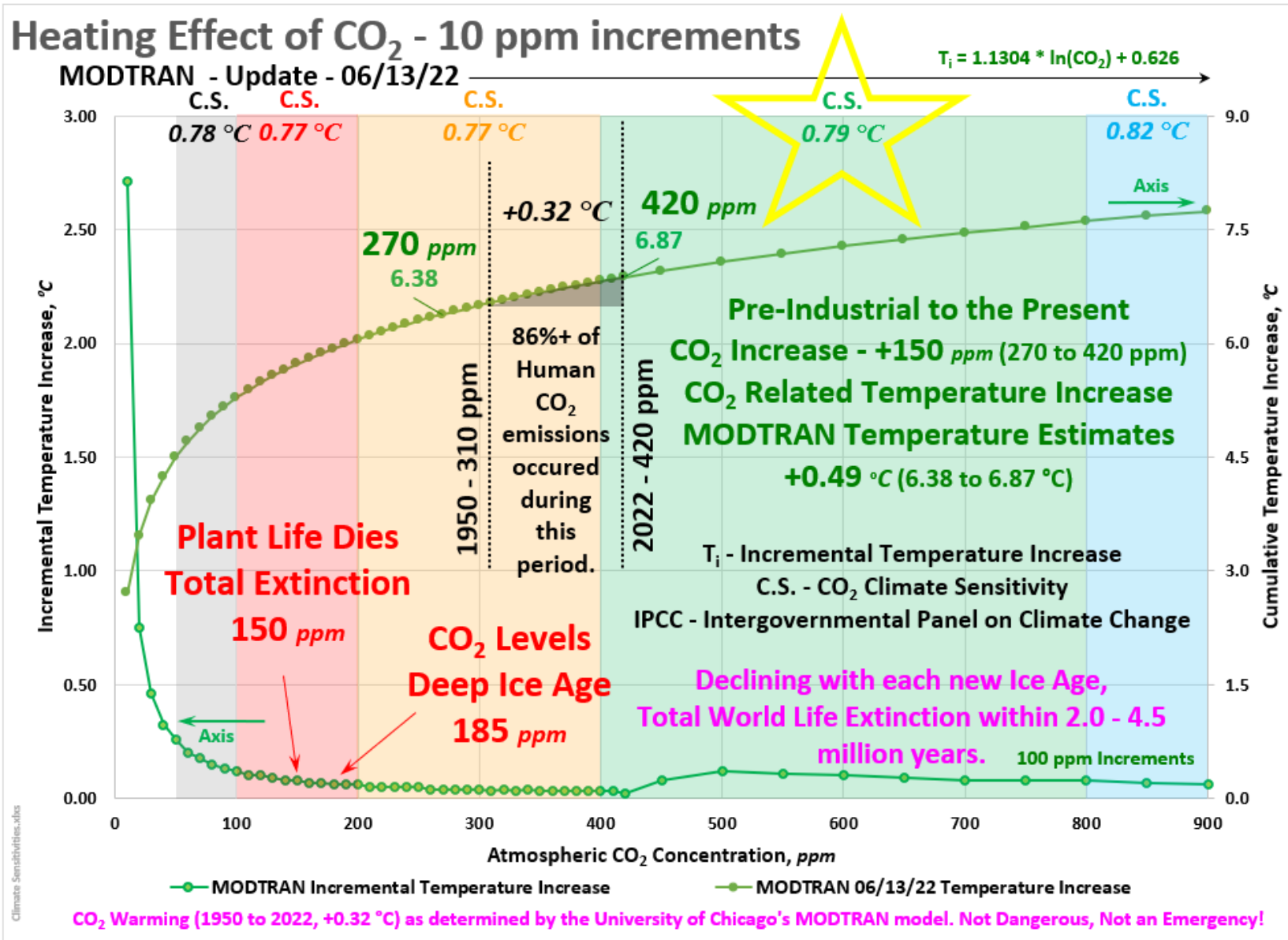
Soon, Connolly<sup>2</sup> et al 2023 - *"The Detection and Attribution of Northern Hemisphere Land Surface Warming (1850–2018) in Terms of Human and Natural Factors: Challenges of Inadequate Data"*



Scafetta, N., 2023 - *"Empirical assessment of the role of the Sun in climate change using balanced multi-proxy solar records"*

# CO<sub>2</sub> CLIMATE SENSITIVITY – MODTRAN, U. OF CHICAGO

CO<sub>2</sub> climate sensitivity is not settled science. The IPCC uses a range of 1.8 to 5.7 °C in their models (which run too hot and use implausibly high emission scenarios). The value is less than 1.8 and likely around 0.8 °C when solar contributions and Urban Heat Island Effects are recognized. The MODTRAN Model (shown here) uses ≈0.8 °C and accurately models radiation to space (calibrated to satellite measurements).



## CO<sub>2</sub> HAS LITTLE TO NO EFFECT ON THE FOLLOWING PARAMETERS

- GREENLAND TEMPERATURES
- ANTARCTIC TEMPERATURES
- PRE-MTR HOLOCENE TEMPERATURES
- GLOBAL SEA LEVELS
- GROSS DOMESTIC PRODUCT (GDP) GROWTH (DUE TO CO<sub>2</sub> EMISSION REDUCTION)
- FUTURE TEMPERATURE REDUCTIONS (DUE TO CO<sub>2</sub> EMISSION REDUCTION)
- EXTREME WEATHER EVENTS ARE DECLINING AS CO<sub>2</sub> LEVELS RISE (NOT CONSISTENT WITH THE 'NARRATIVE')

**Why do the models run way too hot?  
Maybe, just maybe the CO<sub>2</sub> alarmist  
narrative is not all encompassing?**



## CO<sub>2</sub>'s INFLUENCE IS GROSSLY OVERSTATED

- THE COMPUTER MODELS USE A CO<sub>2</sub> CLIMATE SENSITIVITY RANGE OF 1.8 TO 5.7 °C (ALL TOO HIGH, NOT SETTLED).
- OBVIOUS NATURAL FORCINGS (SOLAR AND SOLAR RELATED) ARE BEING IGNORED (TO OUR OWN DETRIMENT).

**SO WHY ARE WE SACRIFICING OUR WAY OF LIFE TO REDUCE CO<sub>2</sub> EMISSIONS?**

