

OPS-78 The Climate Change and Arsenic Paradox

Why do solar based models match the temperature changes better than CO₂ based models? CSS-53

Climate realists often point out that the rise in CO₂ concentrations since the pre-industrial era are insignificant. That rise is roughly 150 ppm. That is equivalent to increasing CO₂ concentrations by 1.5 molecules out of 10,000 molecules (0.015%). The climate alarmists counter that by pointing out that many elements can be very toxic at very low concentrations. Arsenic is often the go to. Arsenic is fatal in the 2 to 20 mg/kg range (0.0002% to 0.002%). Implicating that CO₂ although the change is small, the consequences can be significant. Climate realists understand that solar activity plays a significant role in driving the climate. The climate alarmists, without any sense of hypocrisy/irony, will then likely point out that the sun cannot possibly have any significant effect on the climate because solar activity fluctuations are very small. So, how small is that change? Since the mid-1600s, TSI has fluctuated up to 1.07 watts/m² below the 1361.2 W/m² maximum (0.079%). The

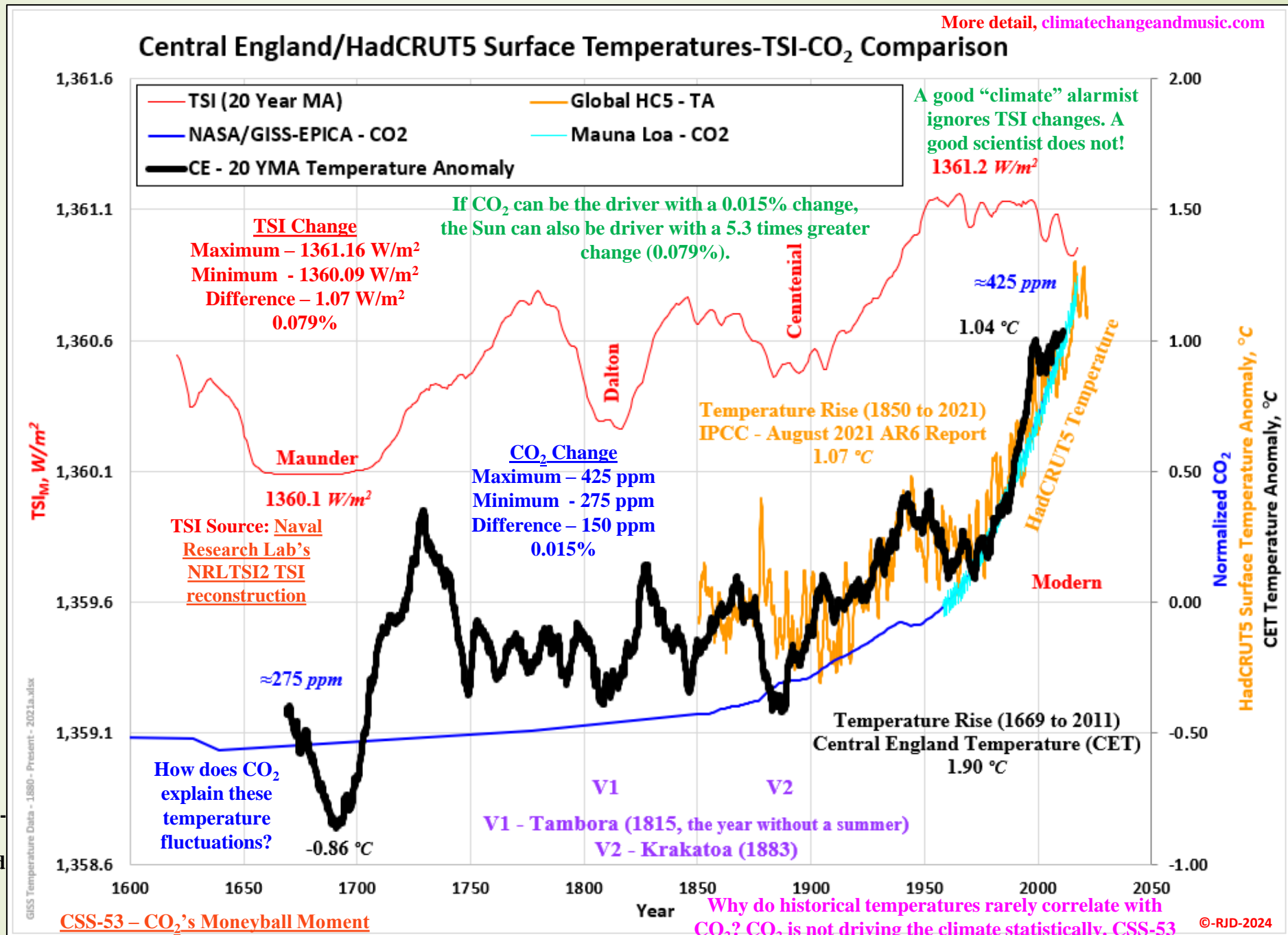
Climate Change & Arsenic

change in TSI is 5.3 times larger than the change in CO₂. The alarmists argue that the 1.07 °C temperature

rise since 1850 is due to the 140 ppm CO₂ rise. There are three problems with that narrative.

1. Temperatures fluctuate significantly, independent of CO₂ concentrations.
2. 86%+ of human CO₂ emissions occurred post-1950. We're definitely not solely to blame.
3. Roughly half of the temperature rise occurred pre-1950 (little to do with us or CO₂).

There are all kinds of issues with CO₂ being the primary driver. Check out my CSS-53 post.



GSM – Grand Solar Minimum. The real “Climate Change” existential threat is right around the corner. Do the Research!