

GSM - Grand Solar Minimum. The real "Climate Change" existential threat is right around the corner. Do the Research!

OPS-56 The "PAUSE"

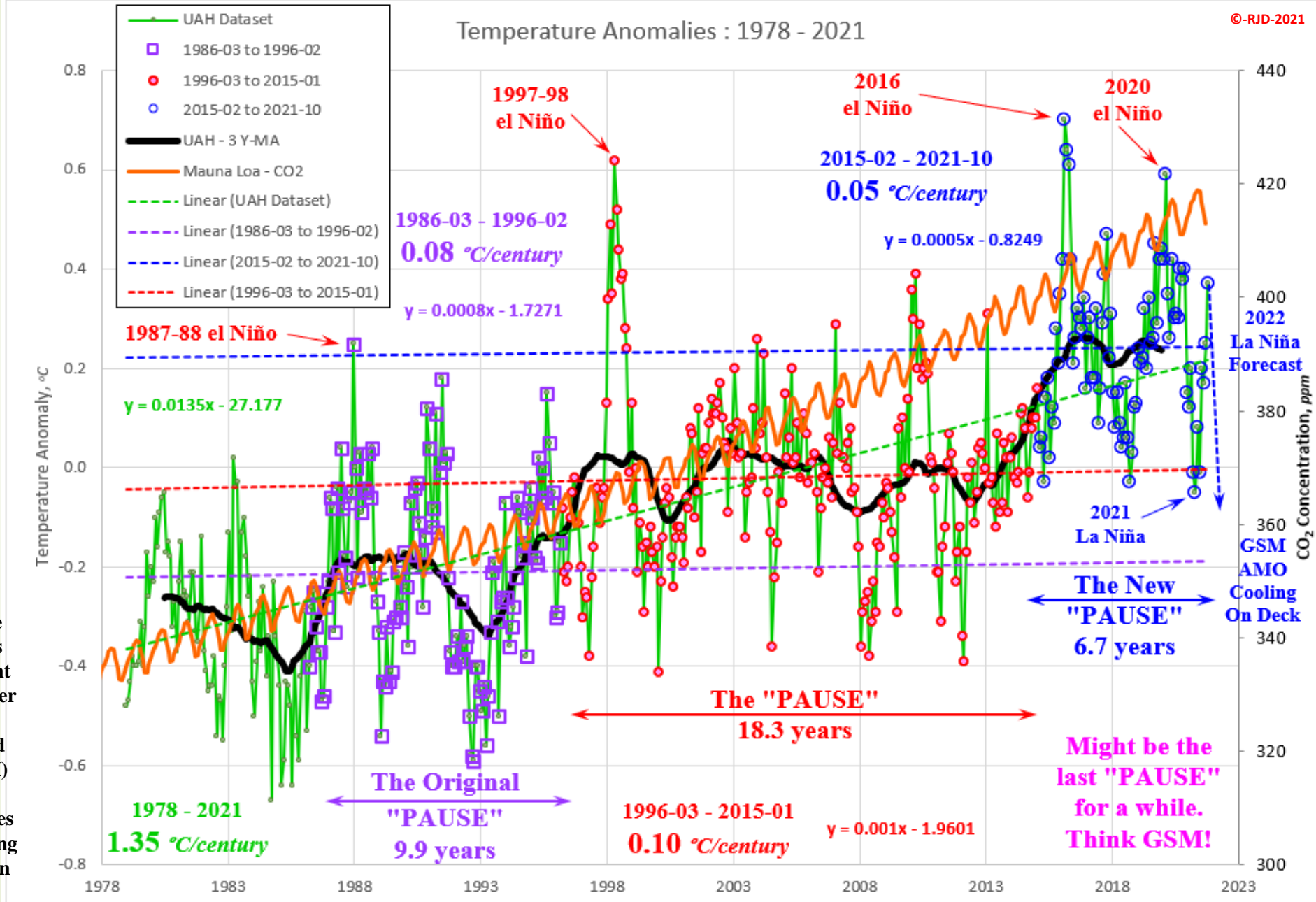
The University of Alabama, Huntsville (UAH) Lower Troposphere Satellite Temperature data is plotted to the right. There are some interesting features to the temperature fluctuations that are worth discussing. First the Temperature fluctuates significantly despite a very steady and predictable rise in atmospheric CO₂ concentrations. The minor fluctuations in CO₂ are just a seasonal variable (likely due to the seasonal temperature changes in the Southern Hemisphere Oceans). Secondly, the temperature increases over the satellite period appear to increase in step functions initiated with a strong el Niño. The traditionally discussed "PAUSE" (1996-03 to 2015-01) lasted 18.8 years. But there were Bookend PAUSES on either side of the officially recognized "PAUSE". The Original PAUSE lasted 9.9 years (1986-03 to 1996-02). The New PAUSE is shorter at 6.7 years (2015-02 to 2021-10) but we are very likely to be stuck in this PAUSE for a little while given the strong La Niña that has already developed in the Pacific Ocean.

The "PAUSE"

Unfortunately, for the planet, the next step is more likely a significant drop rather than another increase as we move further into the Grand Solar Minimum (GSM) we are just entering. Thirdly, the ocean cycles easily dominate the rising CO₂ concentrations. On this time scale, the dominant ocean cycle is the el Niño Southern Oscillation (ENSO) which gives temperature fluctuations consistent with the scary IPCC temperature increase of 1.07 °C over the MTR.

The IPCC's models are self admittedly running way too hot and cannot possibly simulate the temperatures over this period (or the future) since they have literally programmed the natural forcings (solar, directly or indirectly) to be virtually zero (OPS-8, OPS-22, OPS-55).

Solar Activity (Total Solar Irradiance, TSI as a proxy) is also a contributor to the temperature profile. The TSI Momentum (20 YMA) peaked in 1950, remained flat until the turn of the century and gradually declined over the "PAUSE". Coincidence? More info/discussion is available in my CSS-7 - CO₂ - The FECKLESS GreenHouse Gas post.



The Atlantic Multi-decadal Oscillation is also contributing significantly (increasing from 1975, level from the turn of the century and set to cool down).

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