

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

# CSS-60a UAH - July 2024 Update - Current Heat

More detail? [climatechangeandmusic.com](http://climatechangeandmusic.com)

It has been an interesting year and a half since my last UAH Update ([CSS-32 - November 2022](#)).

Temperature Anomalies (TA) began rising rapidly from the January 2023 -0.04 °C low, peaking at 1.05 °C in April 2024. That is 1.09 °C rise over 16 months. CO<sub>2</sub> (which rose 7.09 ppm) has virtually no influence on temperatures over a period that short.

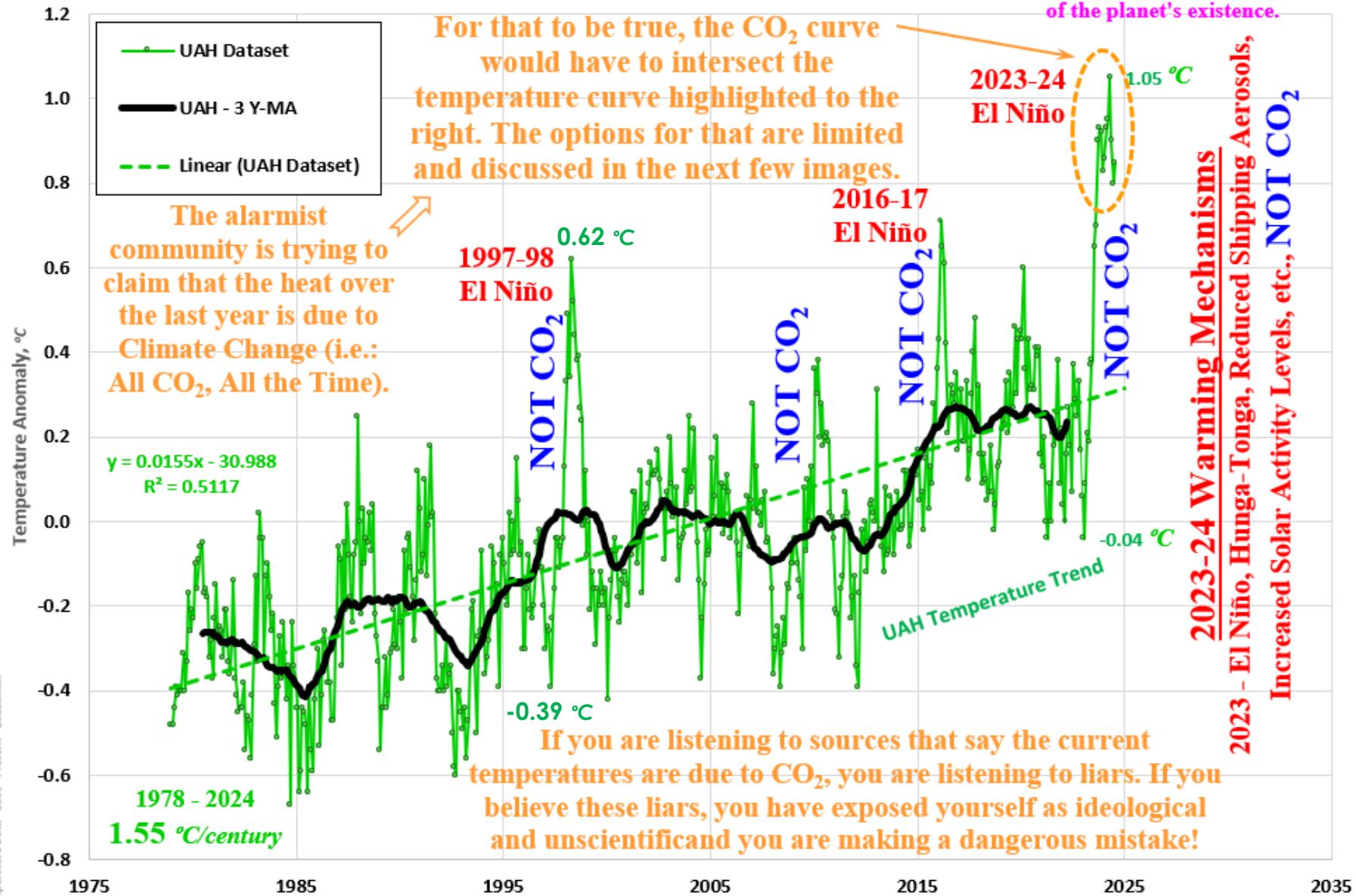
The temperature anomalies have dropped over the last 2 months as we have started moving back to La Nina conditions. Why are the current temperatures (and TAs) so high? The obvious answer is the El Nino we experienced over the last year (and a bit). We saw a very similar response back in 1997/98. The TAs moved from -0.39 °C to +0.62 °C (a 1.01 °C rise) in just 12 months with a minor CO<sub>2</sub> increase of 2.31 ppm. CO<sub>2</sub> was not

responsible for either temperature spike. This recent El Nino probably had some significant help

## UAH - July 2024 Update Current Heat

from the January 2022 Hunga Tonga volcanic eruption (a massive H<sub>2</sub>O vapor injection into the stratosphere), clearer skies (due to significantly improved Shipping aerosol emission limits), and increased solar energy input (due to Sunspot Cycle 25 Maximum). The relative contributions of each warming mechanism can be discussed further, but the CO<sub>2</sub> contribution is small!

### UAH Satellite LT Temperature Anomalies: 1978-12 - 2024-07



**2023-24 Warming Mechanisms**  
 2023 - El Niño, Hunga-Tonga, Reduced Shipping Aerosols, Increased Solar Activity Levels, etc., NOT CO<sub>2</sub>

For those that do not like the UAH satellite dataset, remember the NOAA-STAR satellite data has corroborated the UAH data.

[CSS-40 - Satellite Temperature Comparisons](#)

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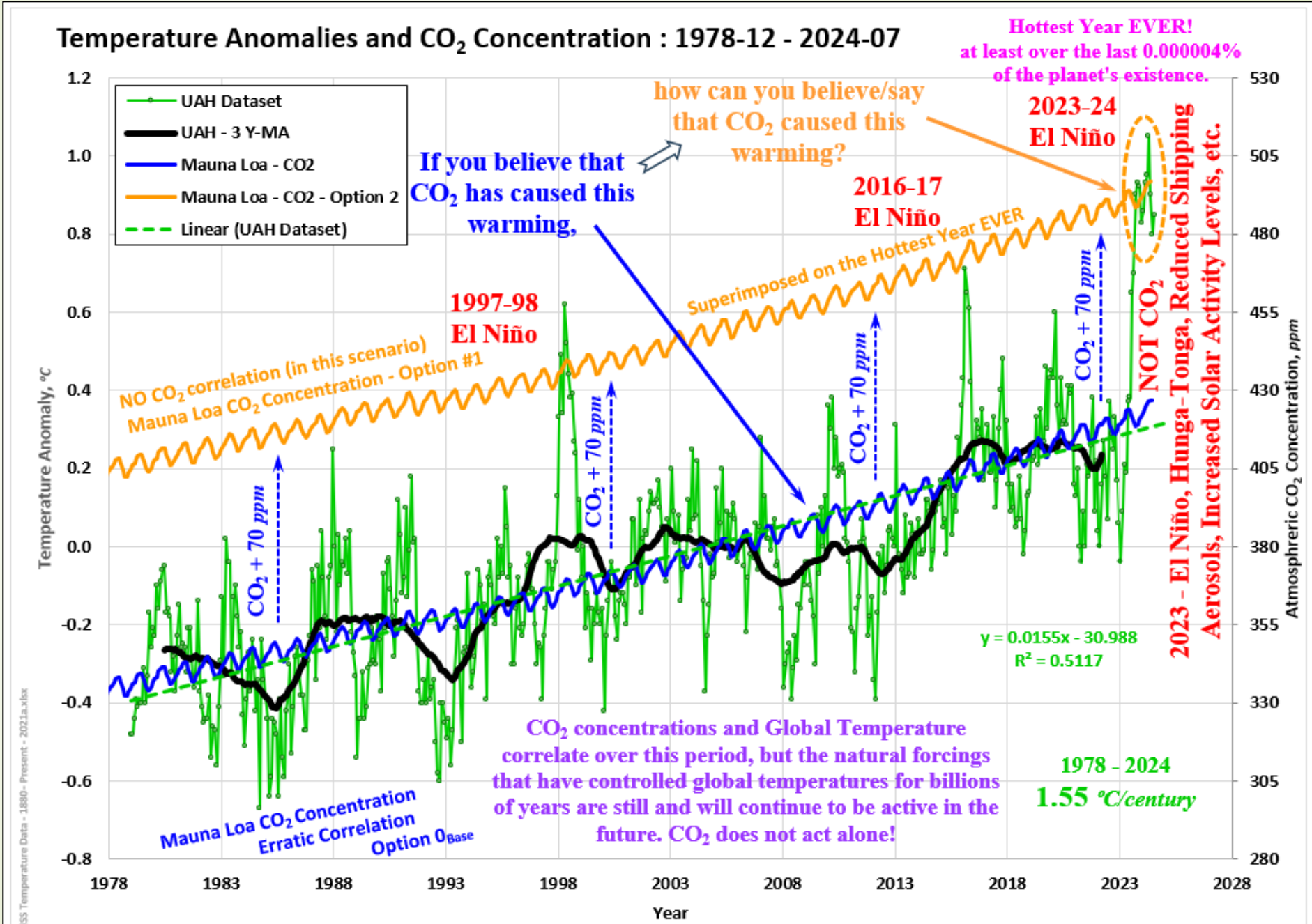
# CSS-60b UAH - July 2024 Update - Current Heat-CO<sub>2</sub> Correlation #1

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The alarmist All CO<sub>2</sub>, All the Time narrative suggests that virtually all the warming since the pre-industrial era (pre-1850) is due to anthropogenic emissions (primarily CO<sub>2</sub>). For CO<sub>2</sub> to be the cause, CO<sub>2</sub> and temperature would have to correlate. The general trend (increasing at 1.55 C/century) can be correlated with CO<sub>2</sub>. That still does not mean CO<sub>2</sub> is responsible for the entire temperature rise. There are obviously other natural forcings acting on global temperature as evidenced by the erratic temperature fluctuations (most likely ocean cycles over the period). The Atlantic Multi-decadal Oscillation (AMO) was warming from roughly 1975 to 2005 and would have contributed to that temperature rise. Given that 68.25% of humanity's emissions (to the end of 2022) have occurred over this period, this is where CO<sub>2</sub>'s contribution would be the highest, but CO<sub>2</sub> is obviously not acting alone. With

## UAH - 07/24 Current Heat/CO<sub>2</sub> Correlation #1

Respect to the current high temperatures, there is no rational correlation between CO<sub>2</sub> and Global temperatures. This version superimposes the UAH trendline (blue) on the current high temperatures (the gold line). Obviously not a valid correlation. Anyone claiming that our current high temperatures are due to CO<sub>2</sub> (i.e.: 'climate change') is advocating for this correlation.



This is just one of three main possible CO<sub>2</sub>'s correlations that could hypothetically produce the current high temperatures. ©-RJD-2024



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# CSS-60c UAH - July 2024 Update - Current Heat-CO<sub>2</sub> Correlation #2

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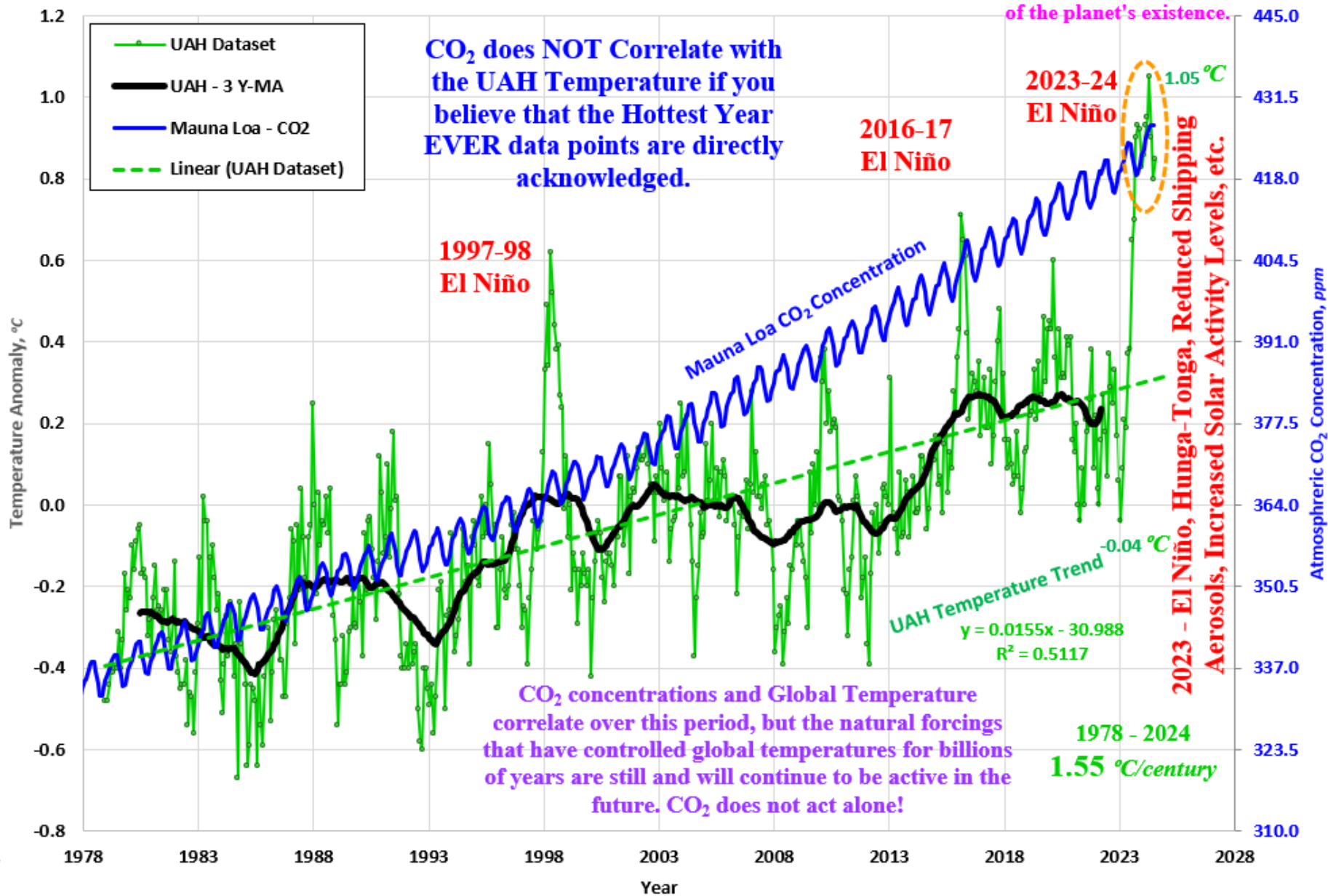
An alternative to superimposing the CO<sub>2</sub> data on the current high temperatures would be honoring both the late 1970s data and the current high temperatures. As with Correlation #1 (superimposing the CO<sub>2</sub> data), this correlation is also ridiculous. Correlation #1 essentially honours just the last 11 data points (monthly averages), incorporating just 2.0% of the available data into the correlation. Correlation #2 roughly correlates with the December 1978 to December 1991 period, but the CO<sub>2</sub> trend begins to deviate significantly after 1991. There is some post-1991 periods (primarily warm El Niño spikes) that briefly intersect the monthly temperatures. But post-1990, there is very little correlation. Correlation #2 is honoring 170 (just over 31%) of the 548 data points.

## UAH - 07/24 Current Heat/CO<sub>2</sub> Correlation #2

If you believe that CO<sub>2</sub> is responsible for the current high temperatures, you are scientifically illiterate. Any organization that

Ties 'climate change' (the All CO<sub>2</sub>, All the Time narrative) to the current high temperatures is exposing themselves as an ideological, pseudoscientific institution. The current high temperatures are not a function of 'climate change'. There are several contributors to this temperature step increase (just not CO<sub>2</sub>). This is not a trend, and those temperatures will come back down to trend.

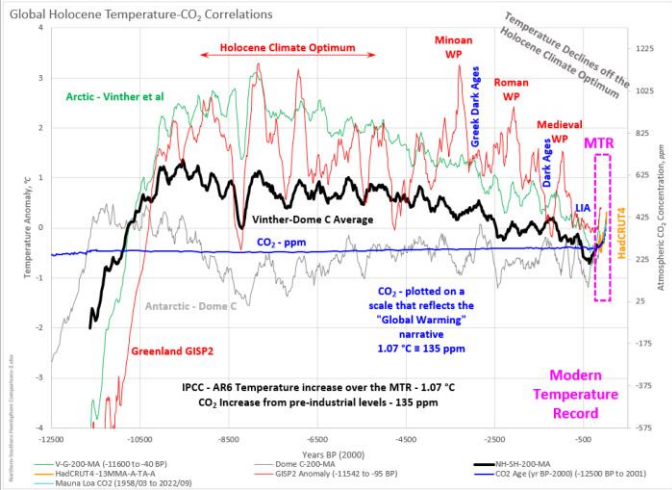
### Temperature Anomalies and CO<sub>2</sub> Concentration : 1978-12 - 2024-07



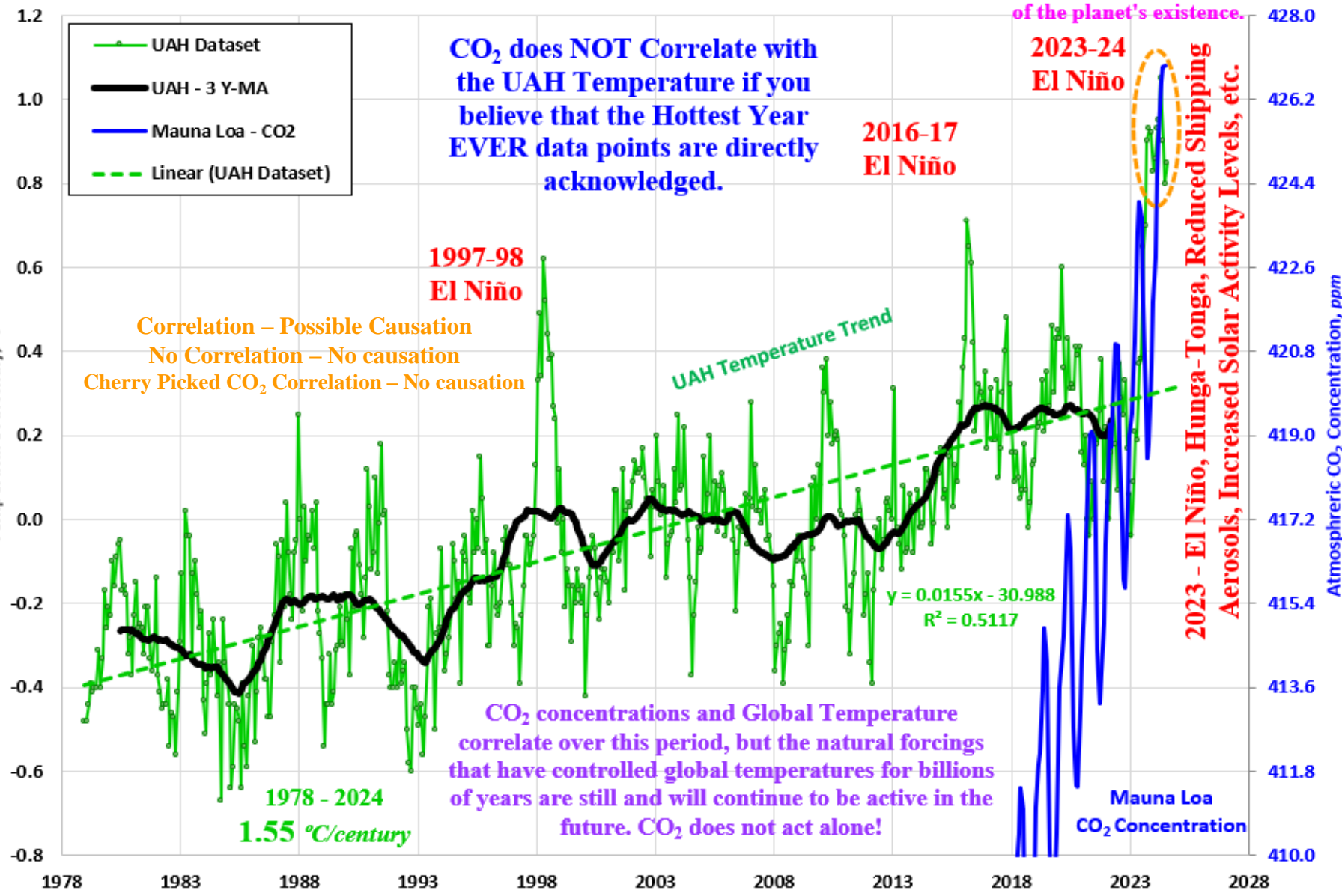
CO<sub>2</sub> does NOT Correlate with the UAH Temperature if you believe that the Hottest Year EVER data points are directly acknowledged.

CO<sub>2</sub> concentrations and Global Temperature correlate over this period, but the natural forcings that have controlled global temperatures for billions of years are still and will continue to be active in the future. CO<sub>2</sub> does not act alone!

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## Temperature Anomalies and CO<sub>2</sub> Concentration : 1978-12 - 2024-07



Correlation #3 is just as impossible as Correlations #1 and #2. Only 43 of the 548 temperature data points (7.85%) fall into this correlation. Correlation #3 fits the last 3.5+ years (2021-01 to 2024-07) quite well, but like Correlation #1 most of the data is ignored. Anyone using the "Hottest Year EVER" refrain is endorsing one of these undeniably unscientific correlations. Having said that, they (the All CO<sub>2</sub>, All the Time alarmists) are more than willing to do just that. By focusing on the pre-industrial era to the present (1850 to now), they are ignoring the rest of the Holocene (for 11,000+ years, CO<sub>2</sub> is flat and global temperatures fluctuate significantly). While the 140 ppm CO<sub>2</sub> rise and the 1.07 °C temperature rise do loosely correlate, the correlation pre-1850 is completely non-existent. Solar correlates better than CO<sub>2</sub>.

**UAH - 07/24**  
**Current Heat/CO<sub>2</sub>**  
**Correlation #3**

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# CSS-60e UAH - July 2024 Update - Current Heat-Acreage Burnt Correlation

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The same scenario applies to Canada's forest fire data. The 2023 fire season was the worst in our recorded history with 18.5 Mha burnt (according to the Canadian National Fire Database. That is a devastating total but that has little to nothing to do with 'climate change' or CO<sub>2</sub> emissions. 'Climate Change' happens on decadal, centennial, and millennial scales. Canadian fire trends have been statistically flat since 1980. Prior to 2023, the trend was just +0.22 Mha/century. After the record low in 2020 (0.23 Mha), the trend was declining at 0.14 Mha/century. CO<sub>2</sub> was not responsible for the acreage burnt increasing from a 2020 low of 0.23 Mha to the 2023 high of 18.5 Mha. A 6.9 ppm CO<sub>2</sub> increase did not increase the acreage burnt by 7943% in just 3 years. The 2023 fire season is an anomaly, not a 'climate change' trend. The 112 Mha Australian fire season is another Anomaly under lower CO<sub>2</sub> concentrations. This slide shows the closest correlation between CO<sub>2</sub> and acreage burnt. A poor correlation since acreage burnt was essentially flat while CO<sub>2</sub> was rising. Superimposing the CO<sub>2</sub> curve on the 18.5 Mha ignores every other data point. The other correlation options are just as bad. CO<sub>2</sub> does not correlate with acreage burnt!

## UAH - 07/24 Heat/Fire Correlation

Anomaly under lower CO<sub>2</sub> concentrations. This slide shows the closest correlation between CO<sub>2</sub> and acreage burnt. A poor correlation since acreage burnt was essentially flat while CO<sub>2</sub> was rising. Superimposing the CO<sub>2</sub> curve on the 18.5 Mha ignores every other data point. The other correlation options are just as bad. CO<sub>2</sub> does not correlate with acreage burnt!

