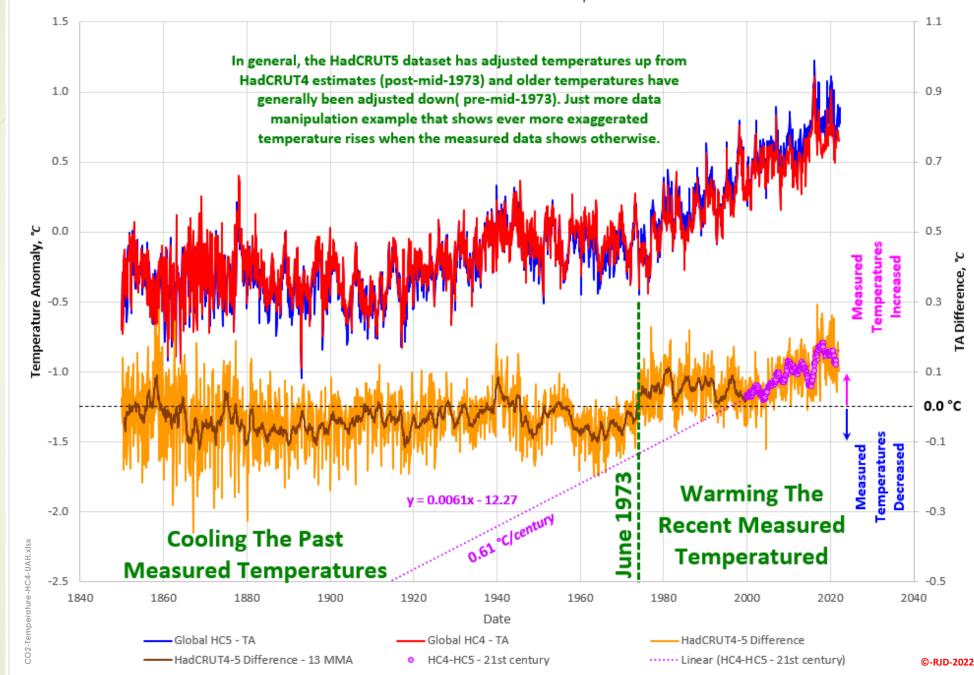
HadCRUT4 - HadCRUT5 Comparison

## Incremental Homogenization HadCRUT4 to HadCRUT5

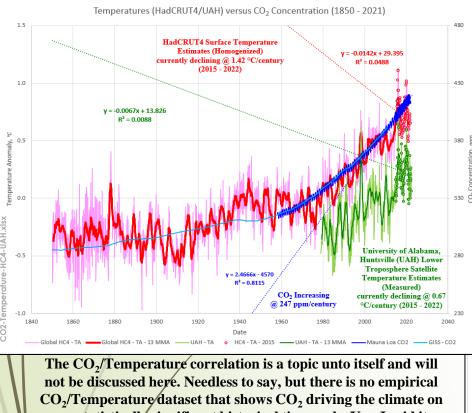
Data Manipulation is just a standard process in the world of "climate science". Strange how every manipulation seems to always favour the Catastrophic Anthropogenic Global Warming (CAGW) alarmist narrative. This CSS looks at just the incremental homogenization that the Hadley Center applied going from their HadCRUT4 to HadCRUT5 Temperature Anomaly profiles. As an aside, there was no attempt to resurrect the much warmer measured temperatures of the

HadCRUT4 To HadCRUT5 late 1800s or the Dirty Thirties. Not unexpectedly, temperatures

in the past have been reduced on average by 0.037 °C (pre-June 1973). More recent temperatures have been adjusted up on average by 0.070 °C. The incremental homogenization is getting more aggressive every year now (increasing at 0.61 °C/century since the turn of the century). Must keep that narrative going!







any statistically significant historical time scale. Yes, I said it. Global temperatures have been declining since late 2015.

## HadCRUT4-5 UAH - MTR

The HadCRUT4 data was declining at a 1.42 °C/century pace. Through the magic of "homogenization" HadCRUT5 has reduced that temperature decline to 0.76 °C/century. The UAH temperature decline is a more

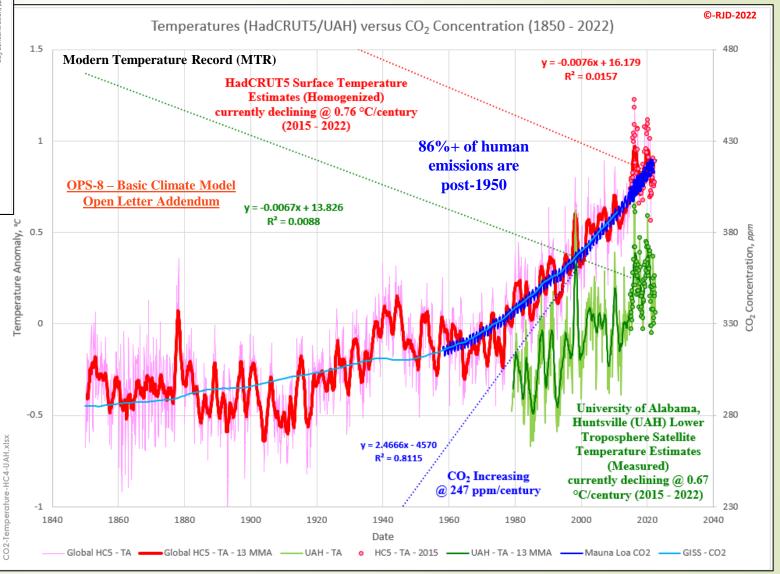
modest 0.54 °C/century. The Lower Troposphere temperature anomaly peaked in February 2016 at 0.70 °C and is currently 0.06 °C (June 2022).

A drop of 0.64 C over 7+ years. That does not fit very well with the CAGW alarmist narrative. Overall temperatures have increased over this time period (from the depths of the Little Ice Age (LIA)). But even in the highly homogenized data, you can still see the solar activity influence (pre-1950 with minor cooling contribution in the UAH data) and the ocean cycle influence (Atlantic Multi-decadal Oscillation (AMO) throughout and El Niño Southern Oscillation (ENSO) more recently. CO<sub>2</sub> contribution is not required to model these temperatures.

CSS-25b More Detail: climatechangeandmusic.com

### **Incremental Homogenization HadCRUT4 to HadCRUT5 – UAH - MTR**

This slide adds in the CO<sub>2</sub> concentration and the UAH Lower Troposphere Satellite Temperature data. The smaller slide to the left is the HadCRUT4 temperature anomaly data. The larger plot below is the HadCRUT5 temperature data. The CO<sub>2</sub> data has been correlated with the CAGW alarmist narrative (CO<sub>2</sub>) is the dominant climate driver). That correlation does not hold prior to 1850 and will not hold in the future.



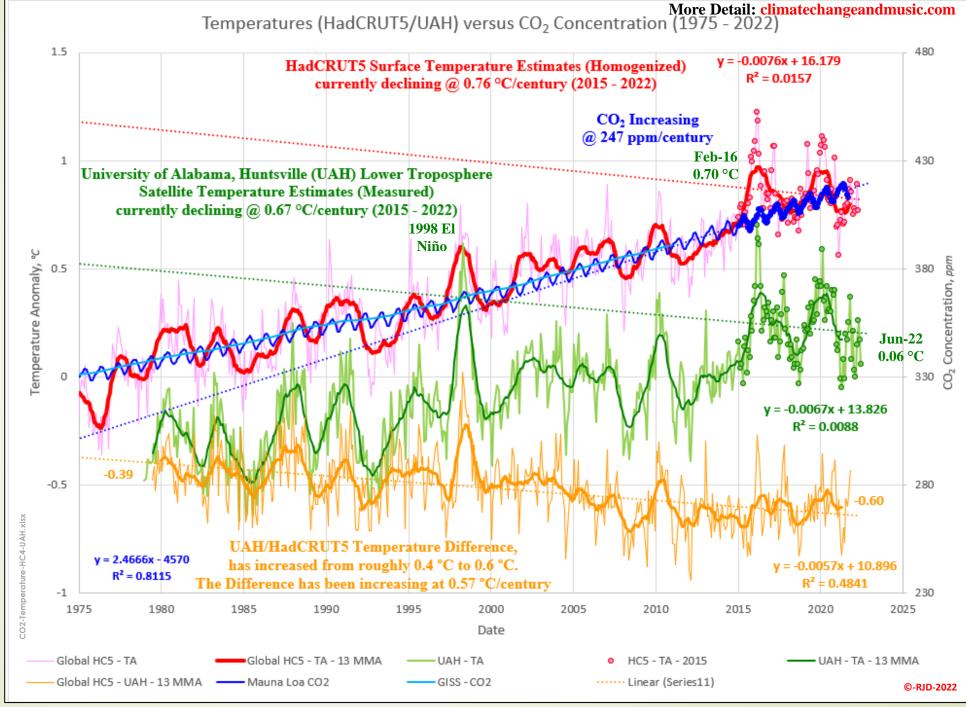
# Incremental Homogenization HadCRUT4 to HadCRUT5 Satellite Era

CSS-25c

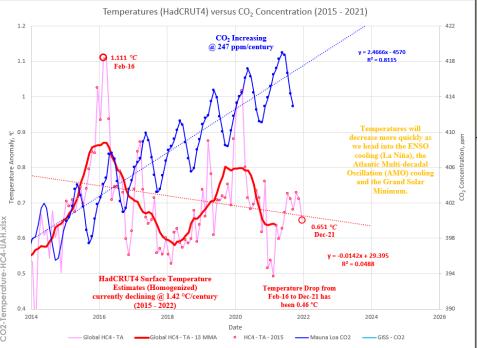
This slide focuses on the satellite era, comparing the new HadCRUT5
Surface Temperature Anomalies to the UAH Lower Troposphere (LT)
Satellite Temperature Anomalies.
When the first satellite measurements became available, the UAH LT Satellite data was roughly 0.4 C lower than the HadCRUT5 Surface data. That difference has increased to current levels of roughly 0.6 C. The difference is increasing at a rate of 0.57
C/century. These two data sets can have different values, but the increasing difference is suspicious. The

HadCRUT4-5 Satellite Era difference would not have anything to do with homogenization, would it? As per

CSS-25a (the first slide), the incremental homogenization transitioning from HadCRUT4 to HadCRUT5 maxed out at 0.6 C/century (over the 2000 to 2022 period). That does not include the homogenization being conducted at the individual station level (where they homogenized away the Dirty Thirties and the 1998 Super El Niño).







phase. Solar Activity has been on a shallow decline since the turn of the century (most likely contributing to the "PAUSE" from roughly 1998 to 2015 and the 2015 to 2022 decline shown here). Solar Activity will decline further over the next couple of decades as we move further into the Grand Solar Minimum (GSM) we are

HadCRUT4-5
Recent Data

Just starting to experience. Temperatures will follow that Solar Activity down (as it has for every Grand Solar Minimum throughout history). Some back-up information/links can be found in my OPS-52 – Solar Activity –

NOAA Forecast and OPS-56 – The "PAUSE" posts. To summarize, when all the data is reviewed, the CAGW alarmist narrative can only survive with the help of "homogenization". And that "homogenization" out of necessity, is getting more aggressive every year. As mentioned earlier (CSS-25b), the temperature over the Modern Temperature Record (MTR, 1850 to the present) can be described without any CO<sub>2</sub> contribution. For the record, CO<sub>2</sub> increases do contribute to temperature rise, just not at the levels the CAGW alarmists have arbitrarily assigned (refer to CSS-7 – CO<sub>2</sub> – The FECKLESS GreenHouse Gas). There is no Climate Emergency!

CSS-25d More Detail: climatechangeandmusic.com

### **Incremental Homogenization HadCRUT4 to HadCRUT5 – Recent Data**

This slide focuses in on the more recent data (2015 – 2022). The dominant driver over this period is not CO<sub>2</sub>. An aggressive El Niño started in 2015 and peaked in 2016 (beating out the 1998 El Niño high by 0.02 °C as the hottest temperature EVER recorded). A few weaker El Niños and some La Niñas have followed. The 2020 El Niño was followed by a strong, extended La Niña. The AMO has been relatively benign recently but is headed into its cold

