

Holocene – Temperature-CO₂ Logic (Is CO₂ the only significant climate driver?)

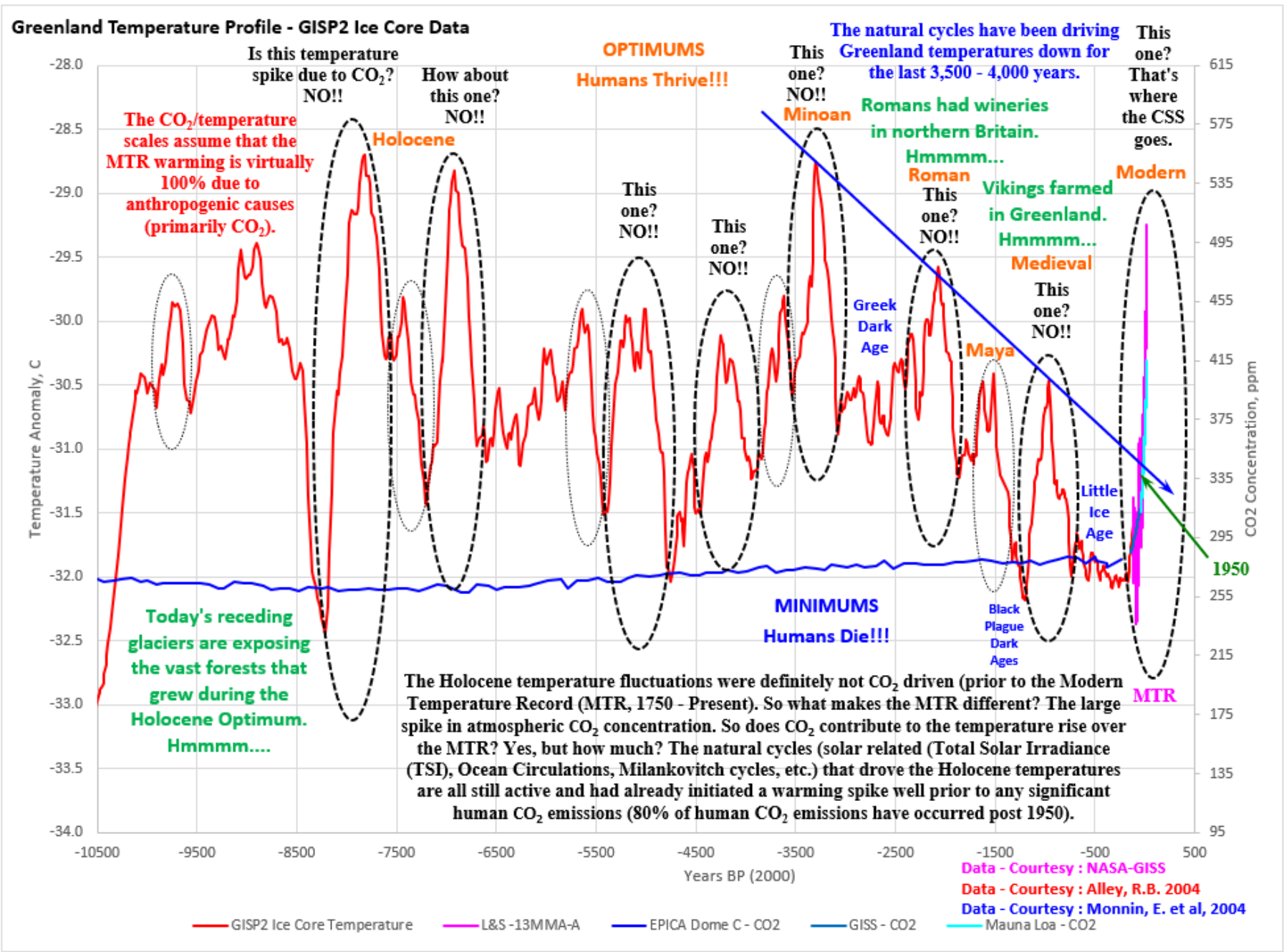
This is the first Page of my second Climate Short Story (CSS) – Another look at the Holocene (Temperatures, CO₂ concentrations and Solar Activity (direct and indirect))

The sun, (not CO₂) is the primary climate driver
 Better to adapt to Climate Change (hot or COLD)!

The argument that these temperatures represent just the Greenland (and the Northern Hemisphere (NH)) are irrelevant when applied to real life. We live in the NH and the sun has a major effect on the NH climate, food production and therefore our very existence. Arbitrarily ignoring the majority of the solar forcings (like the CAGW alarmist crowd chooses to do) is both stupid and dangerous. The new CMIP6 computer protocol has included high energy particles and cosmic rays as additional (but not all) solar forcings. Not surprisingly, the Modern Temperature Record (MTR) can now be modeled without CO₂ contribution.

H-TC-Logic
 Is CO₂ the driver

More detail?
 Search “Ronald Davison climate”



Holocene – Temperature-CO₂ Logic (NASA-GISS MTR data)

This page focusses in on the NASA-GISS surface temperature data set

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NASA-GISS

The potential CO₂ influence is very dependent on the Modern Temperature Record (MTR) data set that is chosen for the analysis.
I'll start with the NASA-GISS (Land & Sea) surface temperature data (which in my opinion is "over-homogenized").

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Greenland Temperature Profile - GISP2 Ice Core Data - NASA/GISS (MTR)



Holocene – Temperature-CO₂ Logic (HadCRUT4 MTR data)

This page focusses in on the HadCRUT4 surface temperature data set

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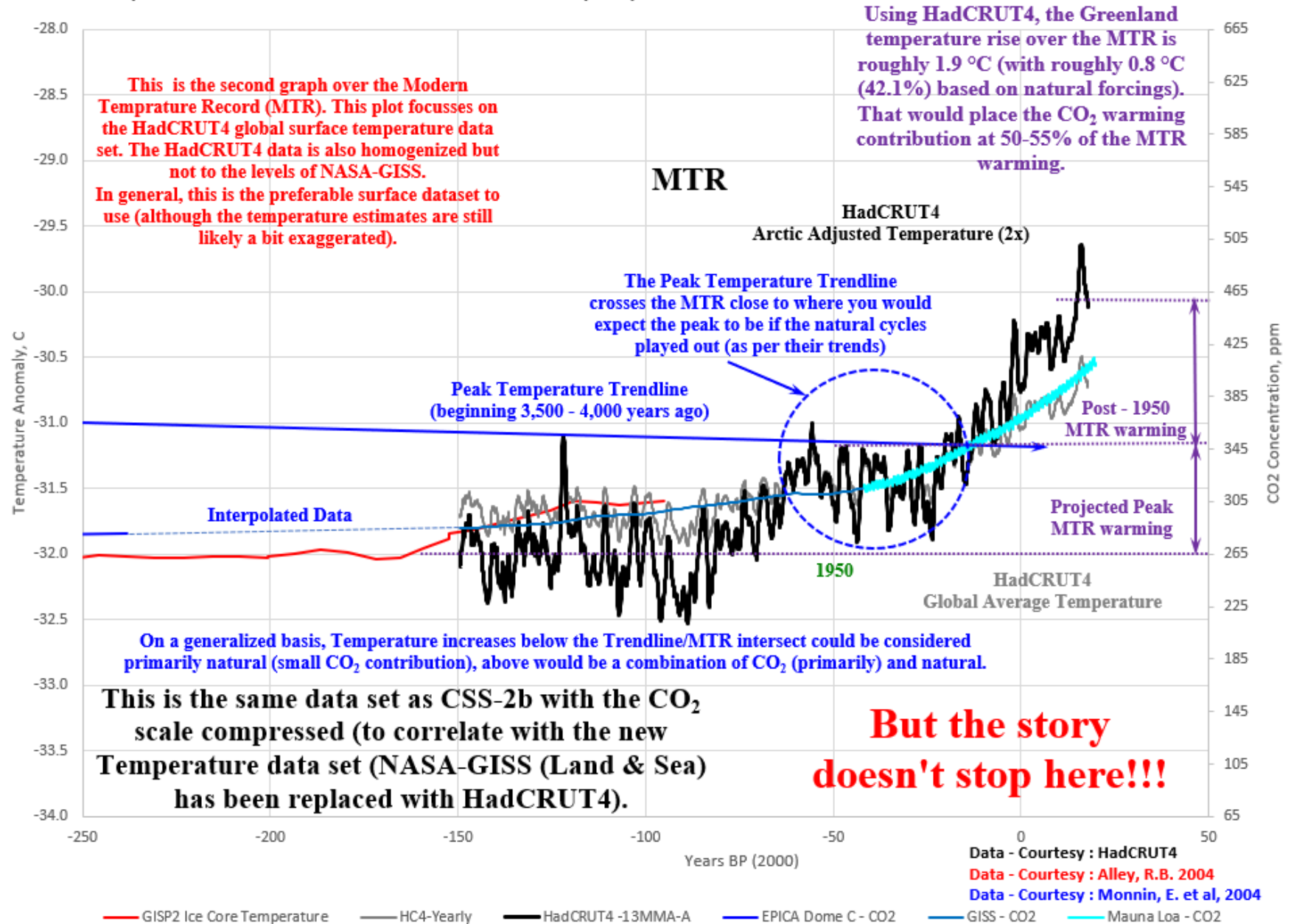
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HadCRUT4

The second temperature data set we'll review is the HadCRUT4 surface data. This data has also been manipulated (i.e.: homogenized) but not as aggressively as NASA-GISS.

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Greenland Temperature Profile - GISP2 Ice Core Data - HadCRUT4 (MTR)



Holocene – Temperature-CO₂ Logic (UAH MTR data)

This page focusses in on the UAH satellite temperature data set

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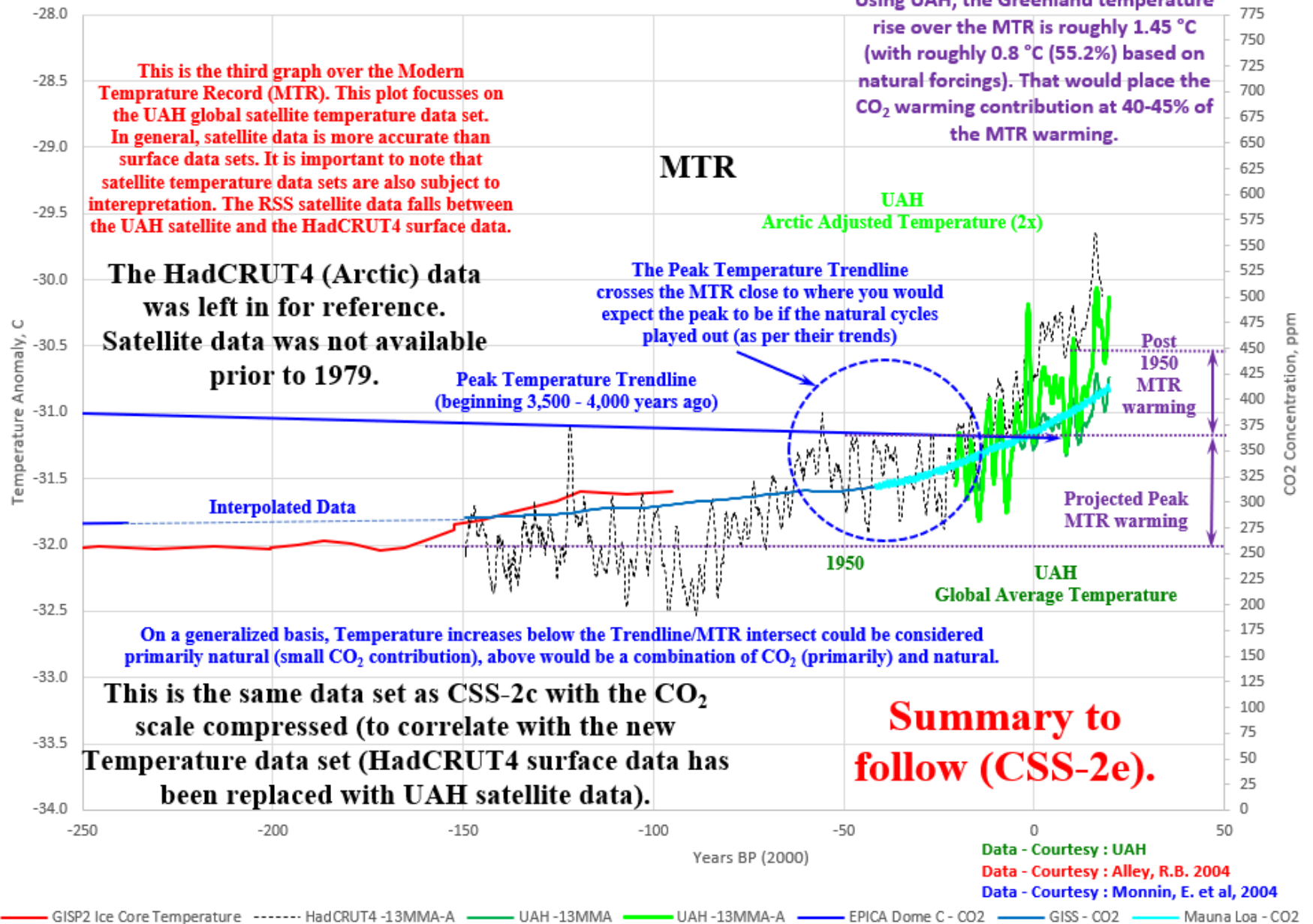
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UAH

The third temperature data set we'll review is the UAH satellite data. The satellite data is by far more accurate than the homogenized surface data sets (yet are routinely ignored by the CAGW alarmist crowd). There are other satellite data sets that generally yield temperatures between UAH and HadCRUT4.

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Greenland Temperature Profile - GISP2 Ice Core Data - UAH (MTR)



CSS-2e Holocene – Temperature-CO₂ Logic (UAH, HadCRUT4, NASA-GISS MTR data)

This page plots the Arctic adjusted UAH satellite and HadCRUT4, NASA-GISS surface temperature data sets together.

The sun, (not CO₂) is the primary climate driver!

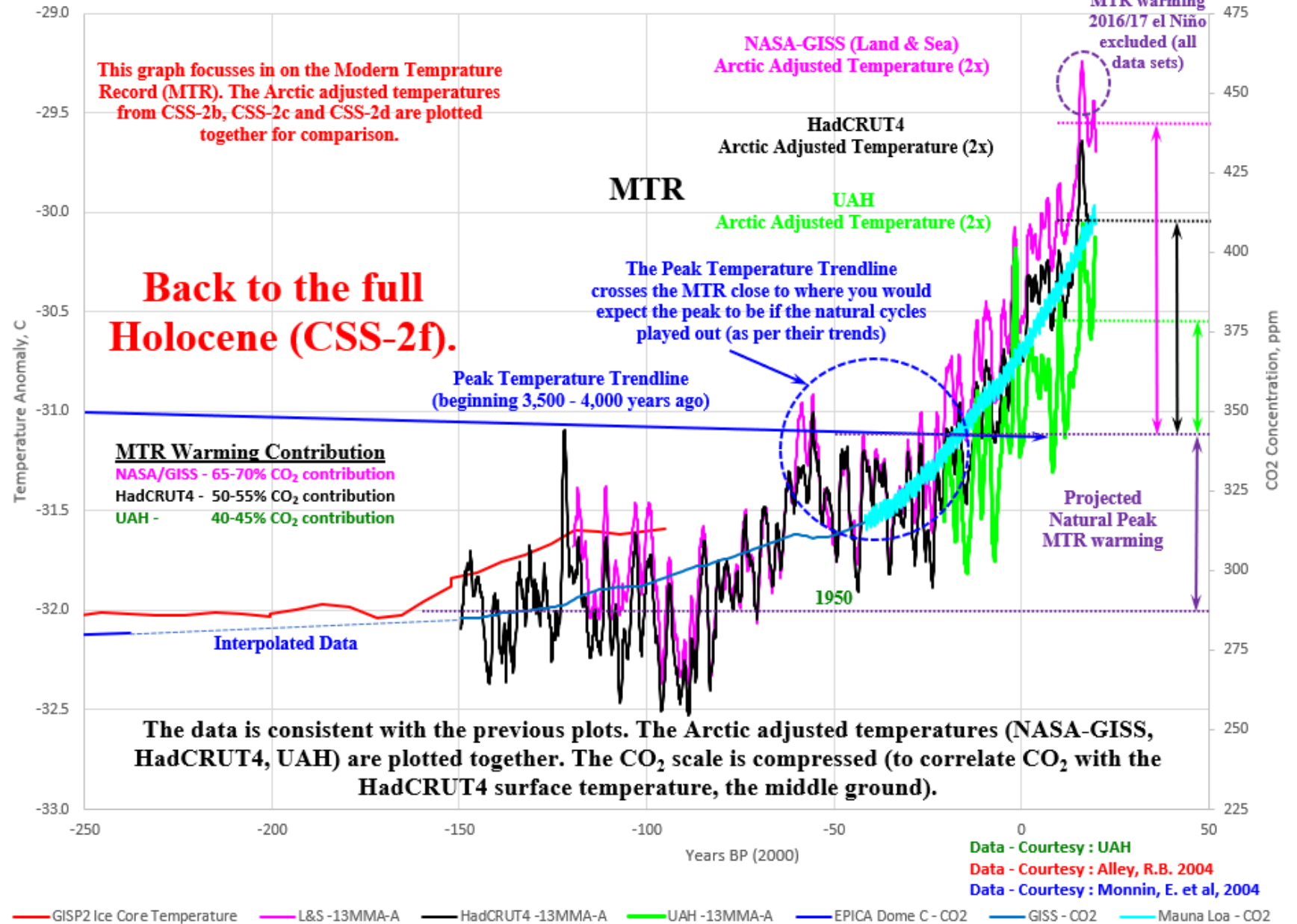
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There are noticeable differences in the three reviewed temperature data sets and that does make a noticeable difference in the CO₂ influence. Regardless, the CO₂ warming in any of these scenarios will not lead to catastrophic warming in the future. Hopefully, the CO₂ warming will be enough to offset the worst of the cooling associated with the coming Grand Solar Minimum (GSM).

H-TC-Logic
UAH-HC4-NG

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Greenland Temperature Profile - GISP2 Ice Core Data - UAH, HadCRUT4, NASA-GISS (MTR)



Back to the full Holocene (CSS-2f).

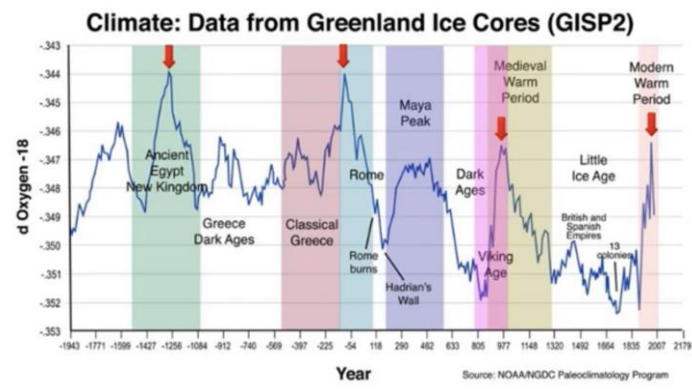
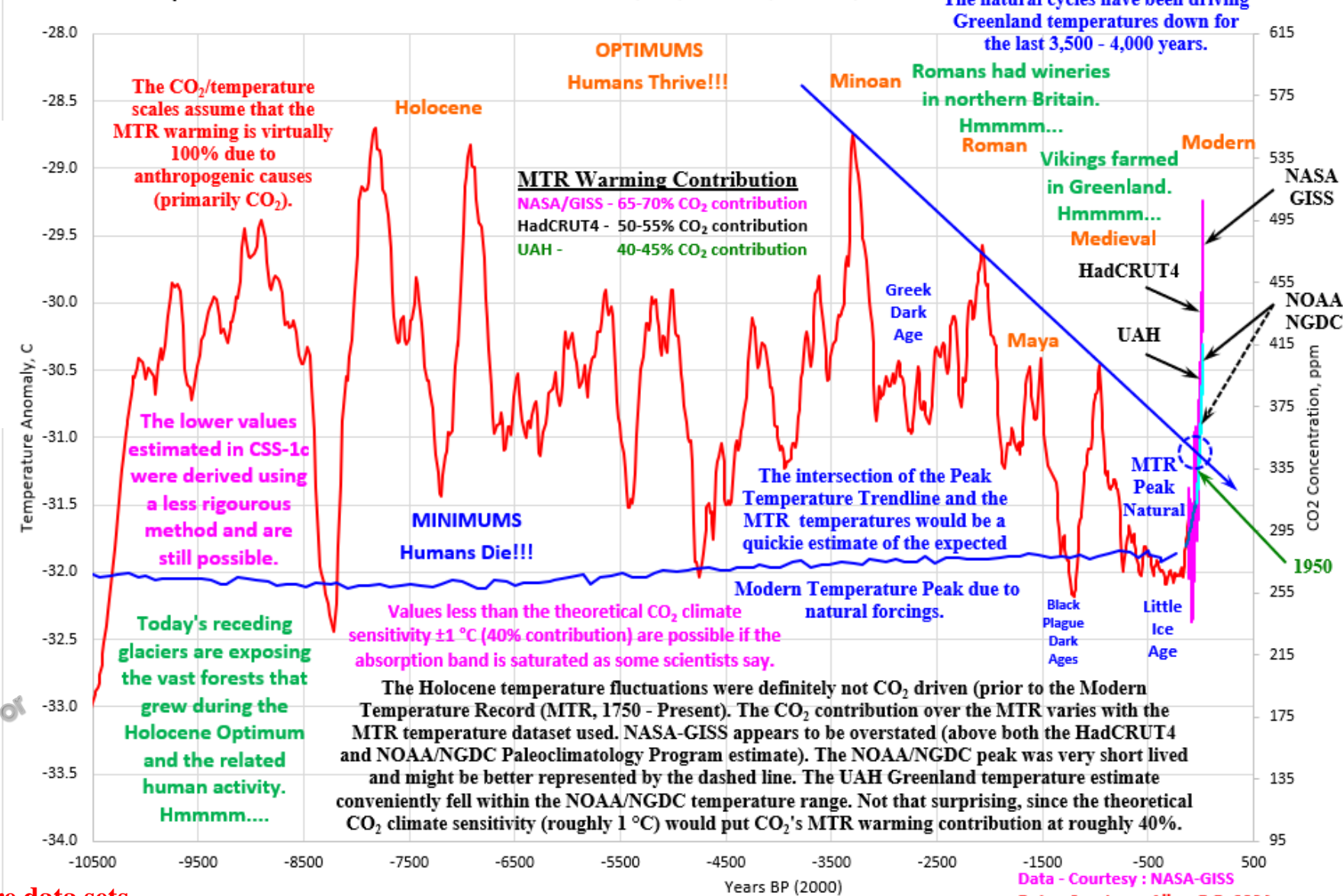
MTR Warming Contribution
 NASA/GISS - 65-70% CO₂ contribution
 HadCRUT4 - 50-55% CO₂ contribution
 UAH - 40-45% CO₂ contribution

The data is consistent with the previous plots. The Arctic adjusted temperatures (NASA-GISS, HadCRUT4, UAH) are plotted together. The CO₂ scale is compressed (to correlate CO₂ with the HadCRUT4 surface temperature, the middle ground).

Holocene – Temperature-CO₂ Logic (NASA-GISS and GISP2 data)

This page goes back to the Arctic adjusted NASA-GISS surface temperature data superimposed on the Holocene data. The MTR peaks are shown for UAH, HadCRUT4 and NOAA-NGDC as well.

Greenland Temperature Profile - GISP2 Ice Core Data - NASA/GISS, HadCRUT4, UAH Comparison



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The NOAA-NGDC data (screenshot from Adapt2030 shown above, similar to other updated Greenland temperature measurements) was added for a little more perspective.

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NASA-GISS:GISP2

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Not one of these temperature data sets shows any unusual or unprecedented temperature increases!!!

Data - Courtesy : NASA-GISS
 Data - Courtesy : Alley, R.B. 2004
 Data - Courtesy : Monnin, E. et al, 2004
 Mauna Loa - CO₂

CSS-2g Holocene – Temperature-CO₂ Logic (Summary)

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Summary

1. The Modern Temperature Record (MTR) temperature increases are neither unusual or unprecedented (regardless of which MTR temperature dataset is chosen).
2. Solar and solar related climate forcings (ocean cycles/circulation, Milankovitch cycles, cosmic ray and high energy particle fluctuations, Total Solar Irradiance (TSI), etc.) dominated the temperature fluctuations over the Holocene and (despite the stop and desist decree put out by IPCC computer programmers) those climate forcings were still active over the MTR and will continue to be active (and dominant) in the future. That applies to both Northern and Southern Hemispheres (although the influences are more pronounced in the Northern Hemisphere).
3. CO₂ concentration changes have not been driving the Holocene temperature changes. Is CO₂ contributing to the MTR temperature rise? Yes, but the magnitude of the CO₂ contribution is nowhere near settled science and there is absolutely no proof of future catastrophic temperature increases. Computer models are not proof.
4. The computer models (using CMIP5 protocol) simply cannot acknowledge the cooler temperatures that will be seen during the coming Grand Solar Minimum (GSM). They have been incorrectly (and intentionally) programmed to ignore the majority of the solar forcings. The CMIP6 protocol (currently being evaluated) does include high energy particle and cosmic ray forcings and will be more representative, but it will take time to change the public/political mindset (i.e.: the CAGW narrative).

Still waiting for anyone (climate scientist or not) to put forward a temperature/CO₂ dataset that shows CO₂ driving the climate on any statistically significant historical (empirical) time scale.