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Technical Report · September 2021

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Global Temperature obvious correlation with Sun for last 1,000 years (unnoticed by IPCC) confirms NASA-HadCRUT inflated post-1980 thermometer data to mimic CO2

Geoclastica Ltd Technical Note 2021-6 Dr Roger Higgs (DPhil, Oxford, Geology) 28 Sept 2021, amended 27 Nov 2021

4 slides, 15 minutes

Slide 1 (of 4). Conclusions

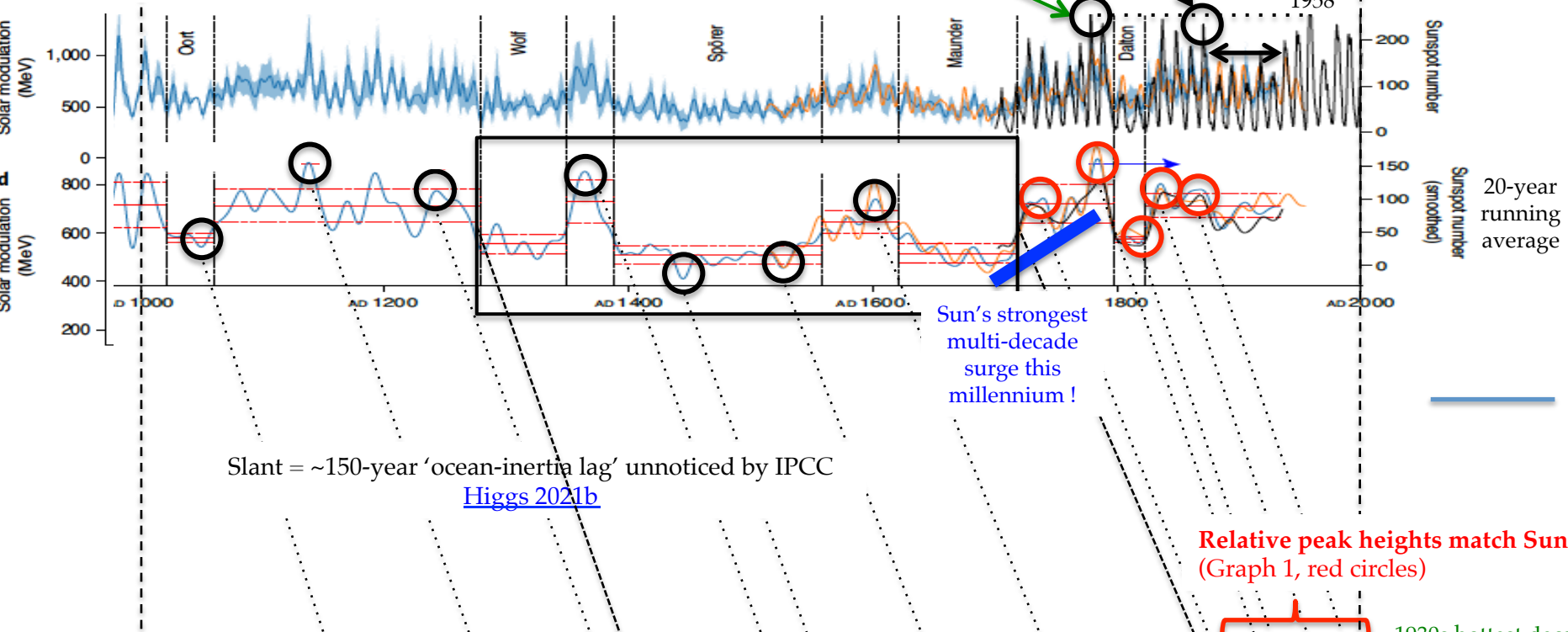
- 1) Our star, the Sun, controls global (& regional) warming & cooling, with 150-year delay due to ocean thermal inertia. (IPCC failed to notice this lag & dismissed solar fluctuations as too small to cause climate change.)
- 2) 'Modern Warming' since 1910 (recovery from Little Ice Age) is greatly exaggerated by NASA-HadCRUT improper 'corrections' to the thermometer record, e.g. failure to compensate fully for urbanization. This solves the tree-ring [Divergence Problem](#): "A temperature trend extracted from tree rings alone would not show any substantial warming since the 1950s".
- 3) The 1930's (Dust Bowl) was probably the warmest decade of the last 1,000 years; it corresponds to the climax of the Sun's 1700-1780 strongest multi-decade surge of the 2nd Millennium (effect delayed 150 years).
- 4) The joint rise in both CO2 (since 1850, start of Industrial Revolution) & temperature (since 1910, with downturns lacked by CO2, and without CO2's acceleration) was purely coincidental.
- 5) Following the 2016 temperature peak, relative coolness will now persist for about 50 years.
- 6) CO2 is irrelevant to climate. (We need more CO2 for agriculture & forestry).
- 7) CO2's theoretical greenhouse effect must be either conceptually flawed or is cancelled by negative feedbacks overlooked or ignored by IPCC.

Slide 2 (of 4). Obvious correlation of Sun & Temperature, last 1000 years

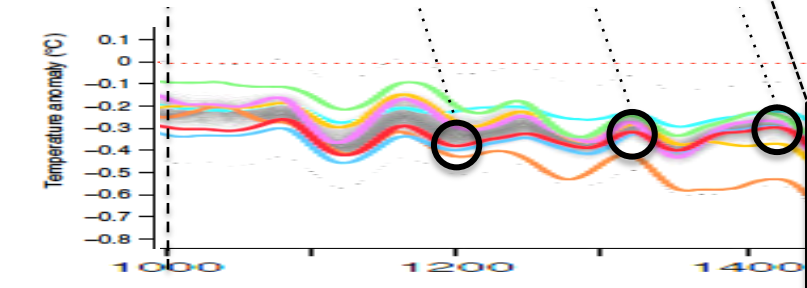
2000 AD

1000 AD

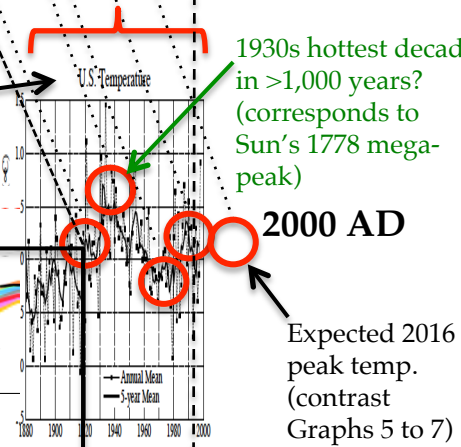
1. Sun's output, annual, proxy tree-ring C14; also sunspots (black) from 1700AD [Brehm 2021](#)



2. Global temperature change, proxy tree rings etc. [PAGES2k 2019](#) For right-hand end see Slide 4.



3. USA temp. change, thermometer [Hansen 1999 NASA](#) (vertical scale & smoothing differ from Graph 2)



LITTLE ICE AGE ...
Sun-driven ... [Denton 1973](#) [Lean 1999](#)

Slide 3 (of 4). NASA-HadCRUT manipulation of thermometer data (temperature inflation), last 150 years

MAJOR INCONSISTENCIES:

A) 1930s were warmer than 1990s in USA, Northern Hemisphere & Arctic (Graphs 3, 4, 7; 2nd & 3rd circles), consistent with Sun (previous slide), but USA (adjusted) & Global (Graphs 5 & 6) show the opposite.

B) Violating Polar Amplification, 2000-2020 is shown warmer than 1930-50 by less in the Arctic (0.5C°) than globally (0.7C°) (Graphs 6 & 7, black bars = eyeballed averages).

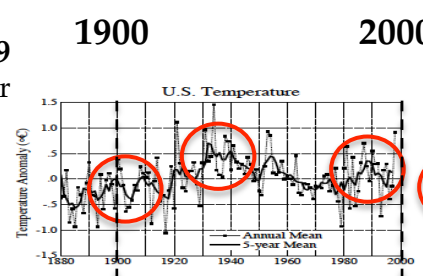
MORE DATA MANIPULATION by NASA:

NASA adjustment of temperatures & gross under-compensation for urbanization ...
[McKittrick 2010](#) [Richard 2017](#) [Heller 2019](#)
[Connolly 2021](#) [Higgs 2021a](#) [Higgs 2021b](#)
[Heller 2021](#)

NASA temperature 'corrections' intended to mimic CO2's accelerating rise since ~1850 (start of Industrial Revolution; next slide) ...
[Heller 2020](#)

3. USA temp. change, published 1999 as in previous slide; thermometer

Relative peak heights same as Sun (previous slide, Graph 1 red circles)

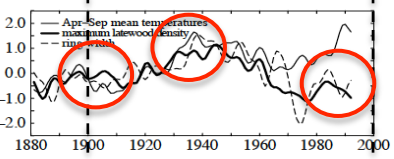


Expected temp. based on corresponding 1778 solar peak (previous slide, Graph 1)

[Hansen 1999 NASA](#)

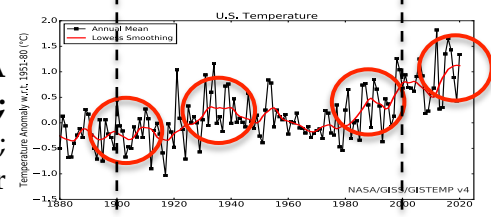
4. Northern hemisphere temp. change from tree-ring density (heavy line) & width (dashed)

NB 'Divergence Problem'



[Briffa 1998](#)

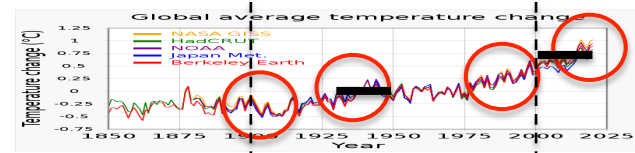
5. USA 'corrected'; 2021; thermometer



[NASA 2021](#)

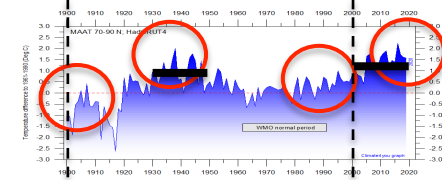
Relative peak heights differ from Sun

6. Global temp. change, thermometer



NASA-HadCRUT
[Wiki Craig 2020](#)

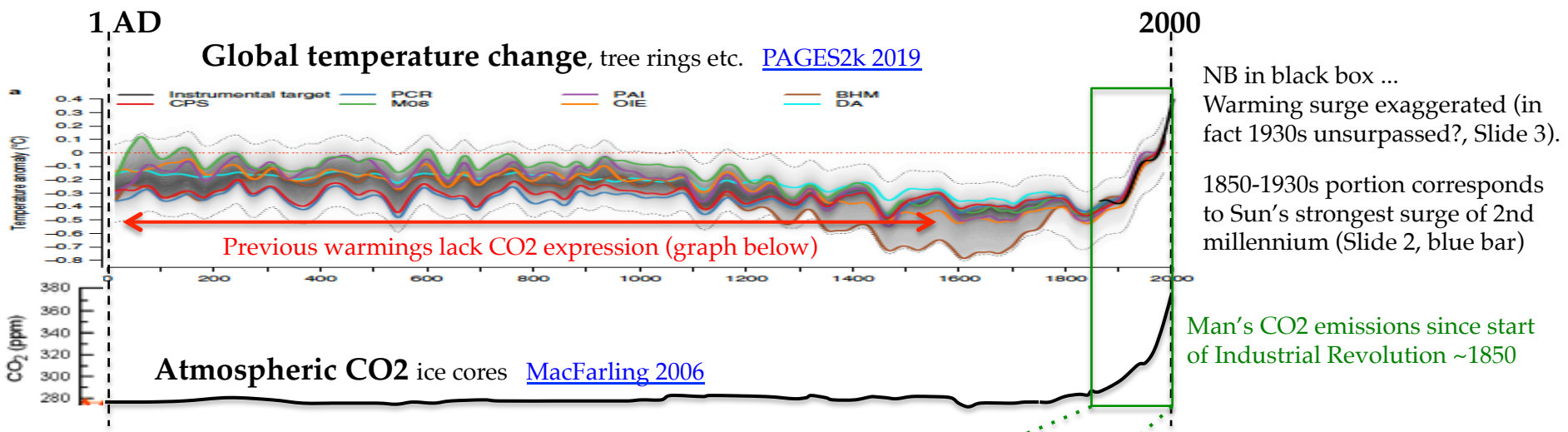
7. Arctic temp. change, thermometer



HadCRUT
[Climate4You](#)

1900 2000

Slide 4 (of 4). CO2 non-correlation (red text) with Global Temperature, last 2,000 years & last 150 years



NB in black box ...
Warming surge exaggerated (in fact 1930s unsurpassed?, Slide 3).

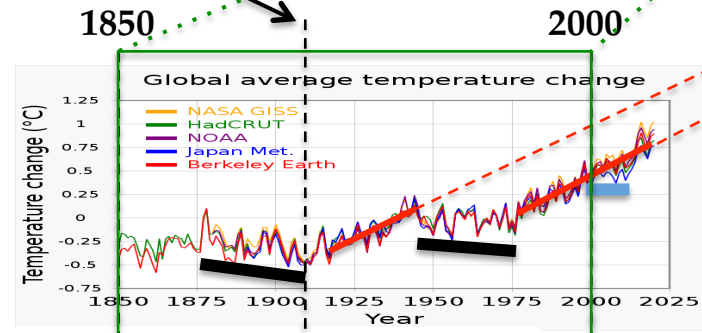
1850-1930s portion corresponds to Sun's strongest surge of 2nd millennium (Slide 2, blue bar)

Man's CO2 emissions since start of Industrial Revolution ~1850

1910 start of 'Modern Warming', no CO2 expression

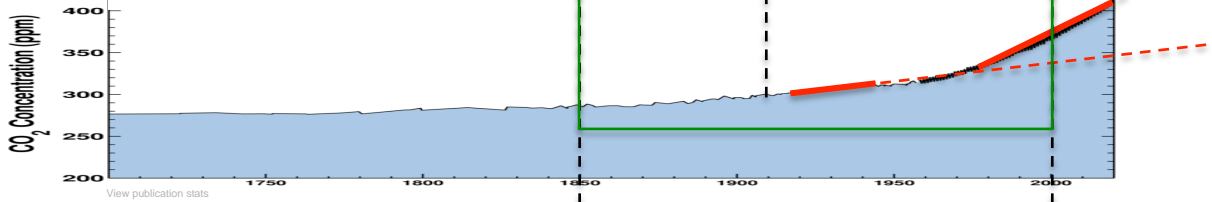
Even after 'adjustment' (Slide 3 box at lower left), Temperature & CO2 graphs still differ 3 ways:

Global temp. change
NASA-HadCRUT
[Wiki Craig 2020](#)



Accelerating? (red bars & dashes)	Multi-decade downturns? (black bars)	1998-2012 hiatus? (blue bar)
No	Yes	Yes

Atmospheric CO2
[Keeling Curve UCSD](#)



Yes	No	No
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