



CO2 Facts

Climate Quiz

DONATE

CO₂ Learning Center

<https://co2coalition.org/facts/>

Climate Facts

Explore our extensive library of facts and detailed data to empower yourself with knowledge, educate friends and family, and join us in our love for CO₂.

Explore the Facts

Take The Climate Quiz

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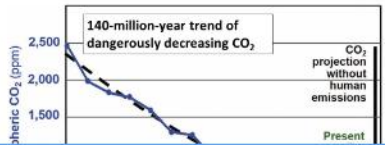
Temperature (17)

CO₂ vs Temperature (3)

Food Security (4)

CO₂ (9)

Weather (3)

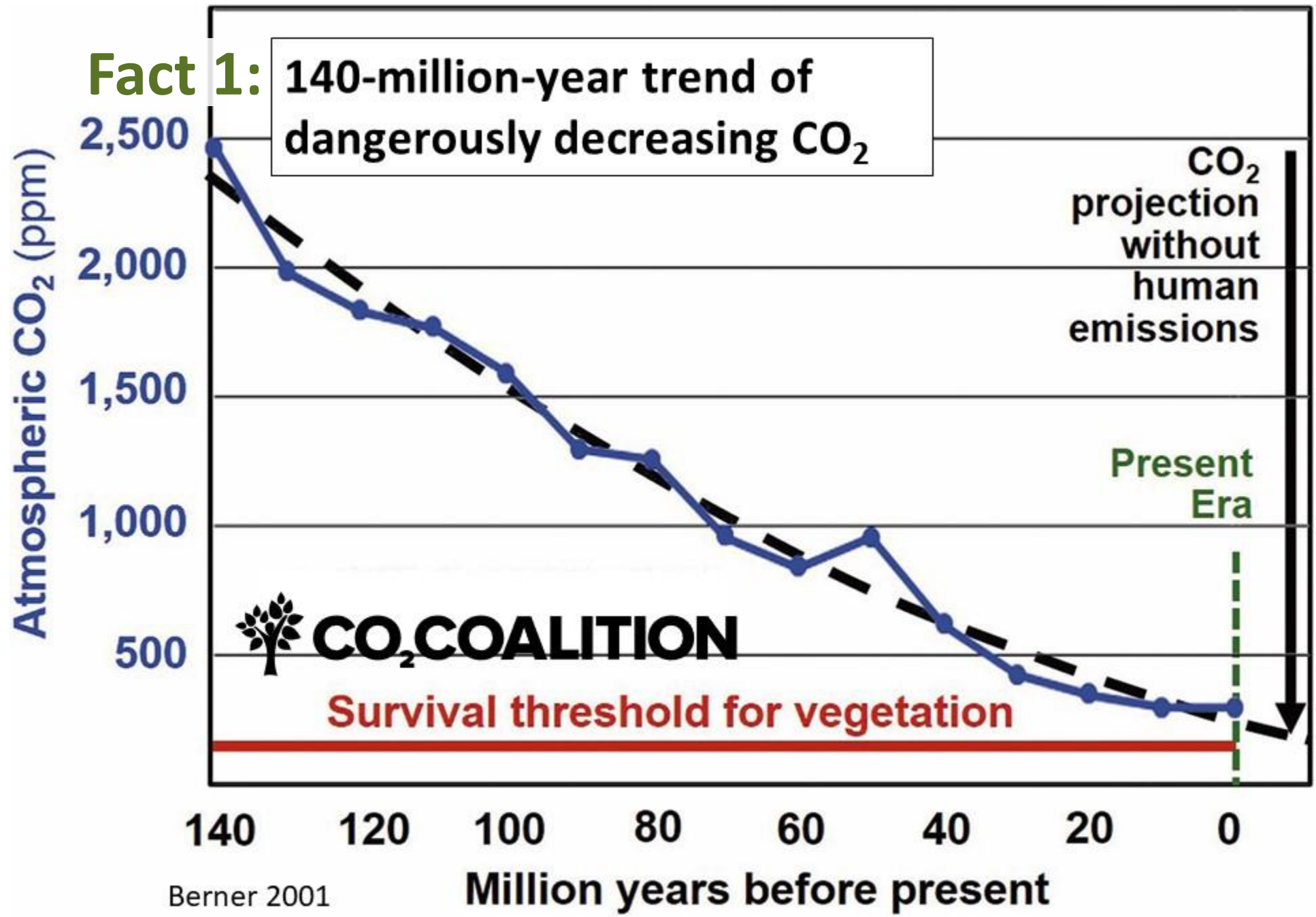


Fact #1

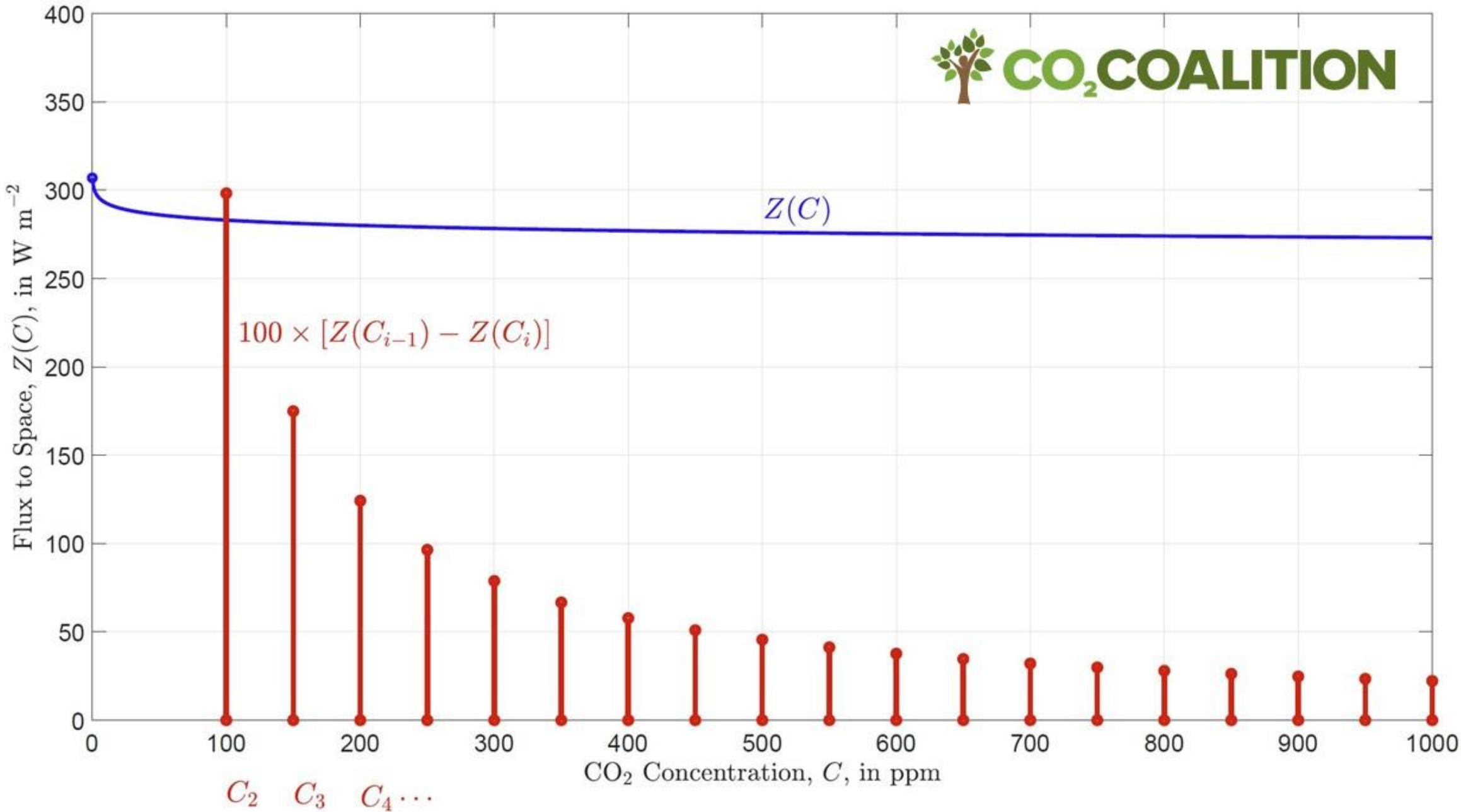
CO₂

140-million-year trend of

Learn More



Fact 2: The warming effect of each molecule of CO2 declines as its concentration increases



Act 3: First and foremost, CO2 is plant food.

Plants love CO2 for a good reason



Dr. Craig Idso

385
ppm

535
ppm

685
ppm

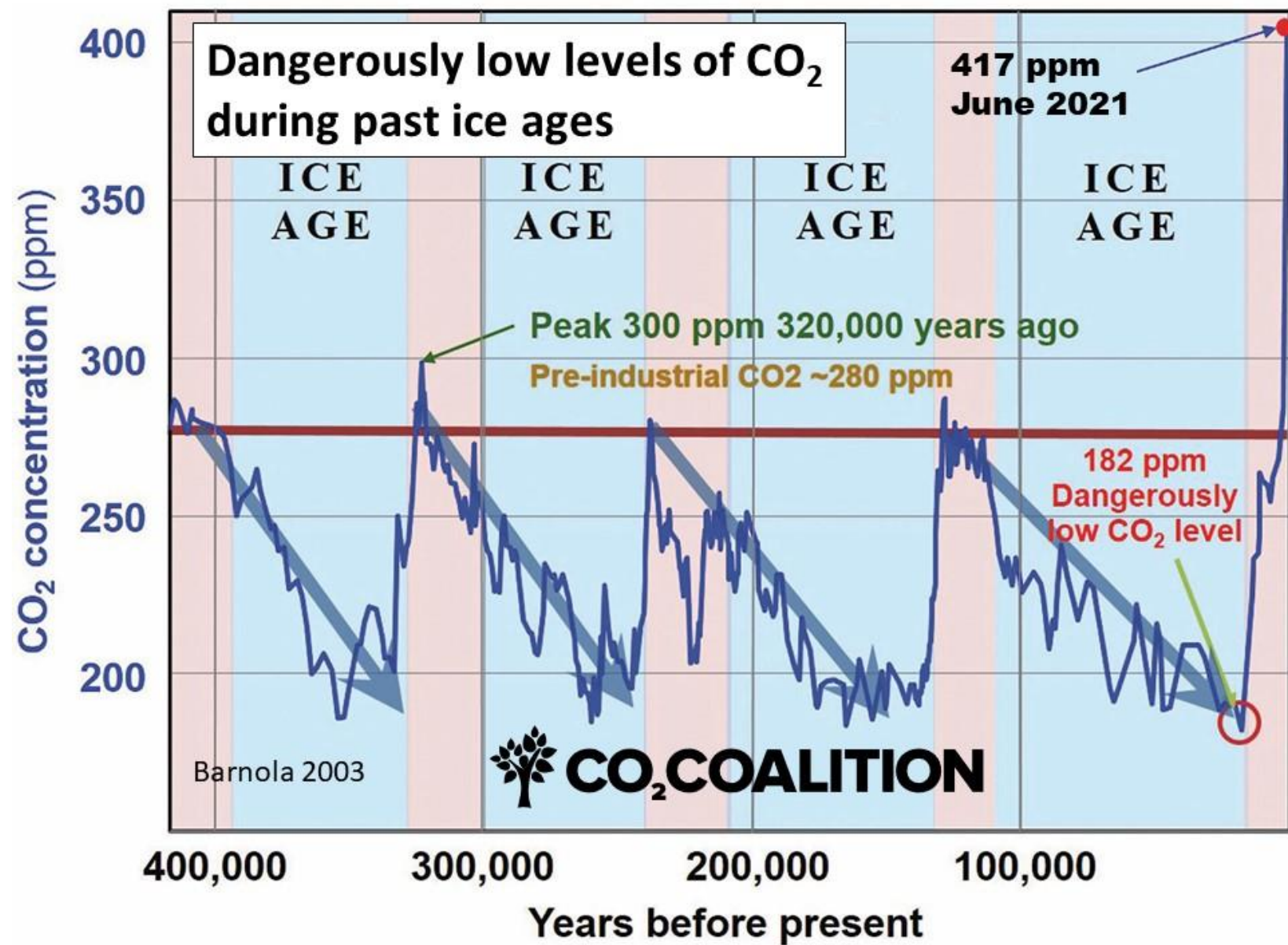
835
ppm



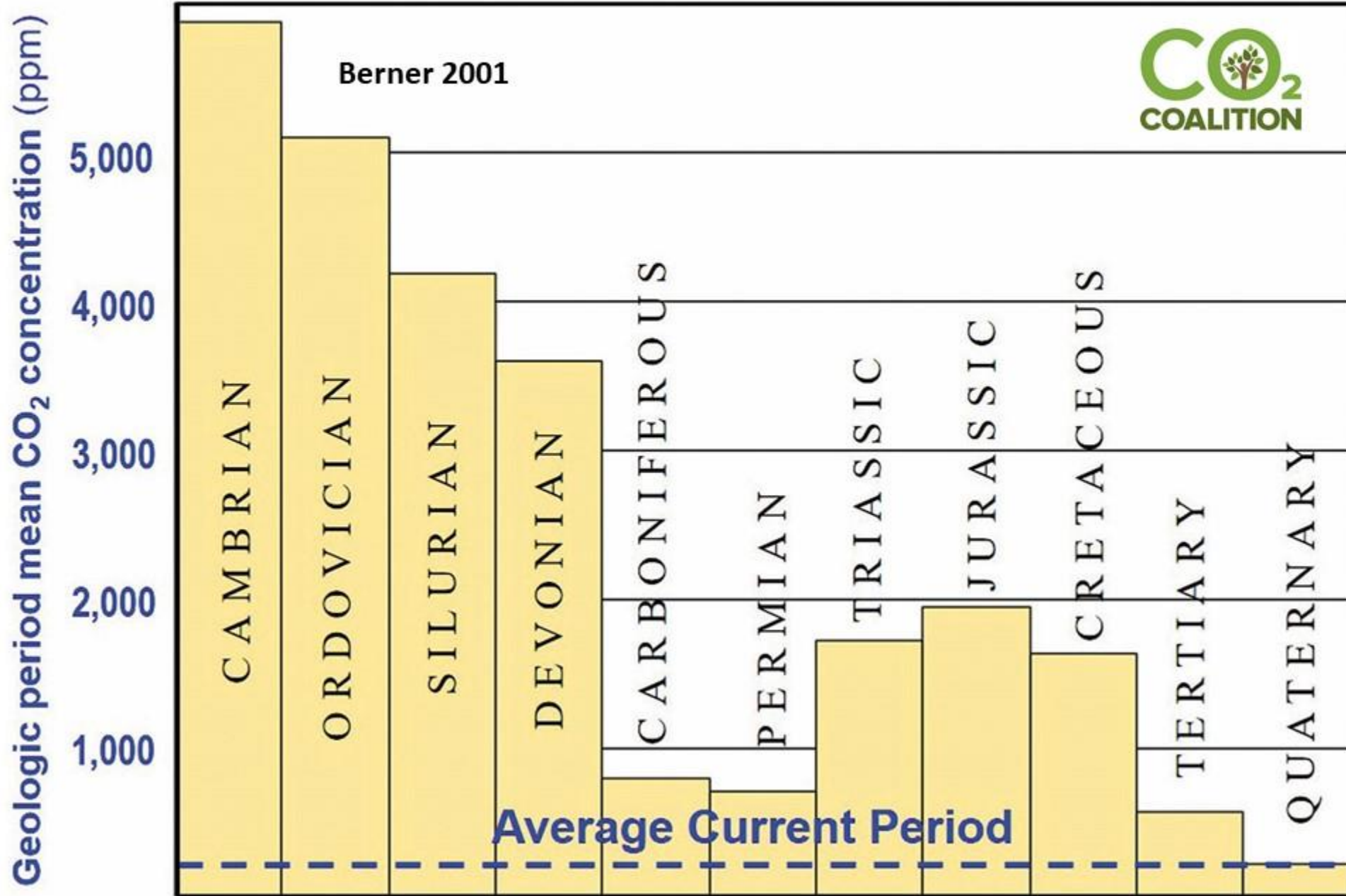
Idso 2013 The positive externalities of CO2
CO2 Science <http://www.co2science.org>

Fact 4: In the last four glacial advances, the CO₂ level was dangerously low.

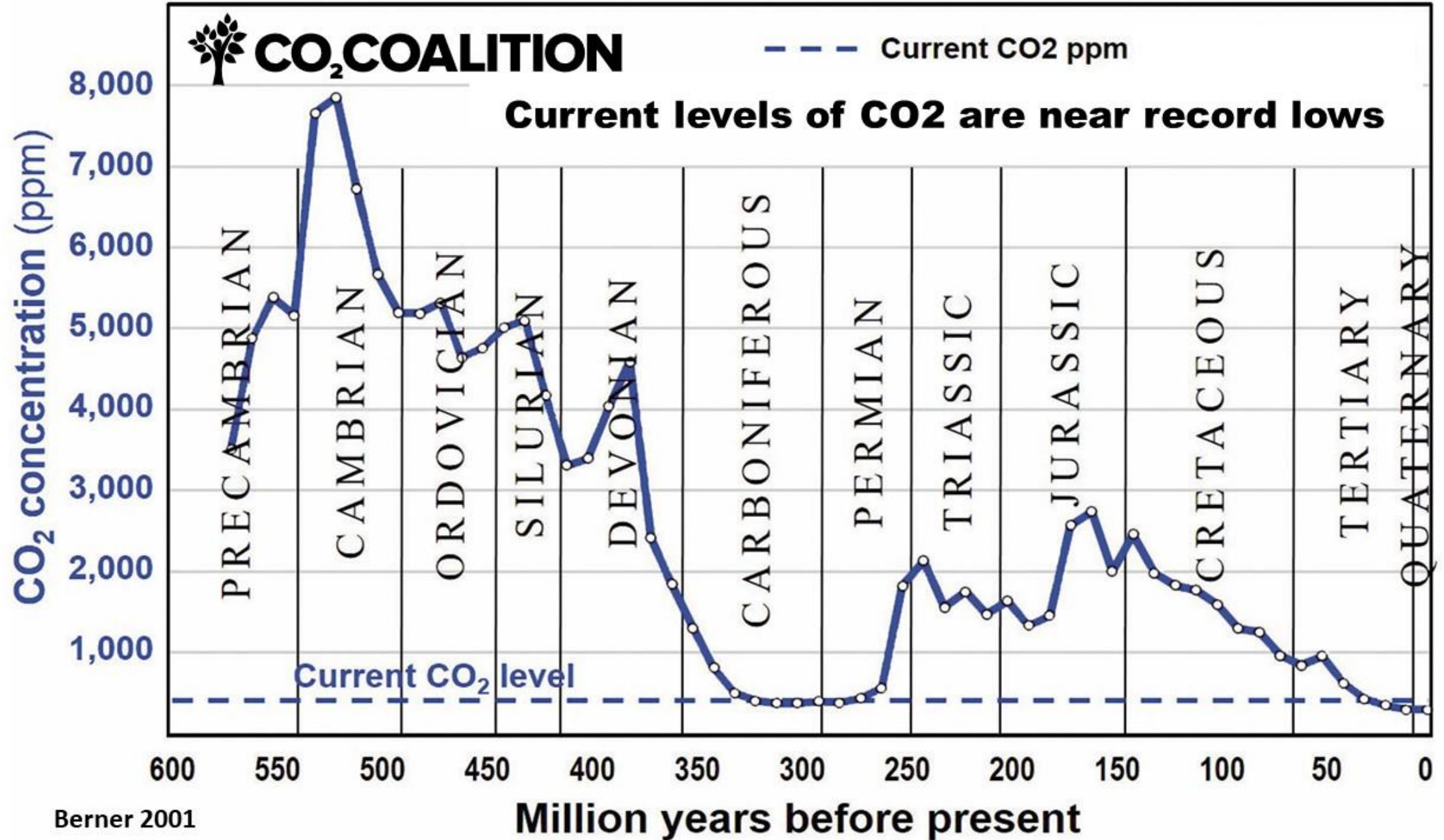
Fact 5: CO₂ emissions began accelerating in the mid-20th century



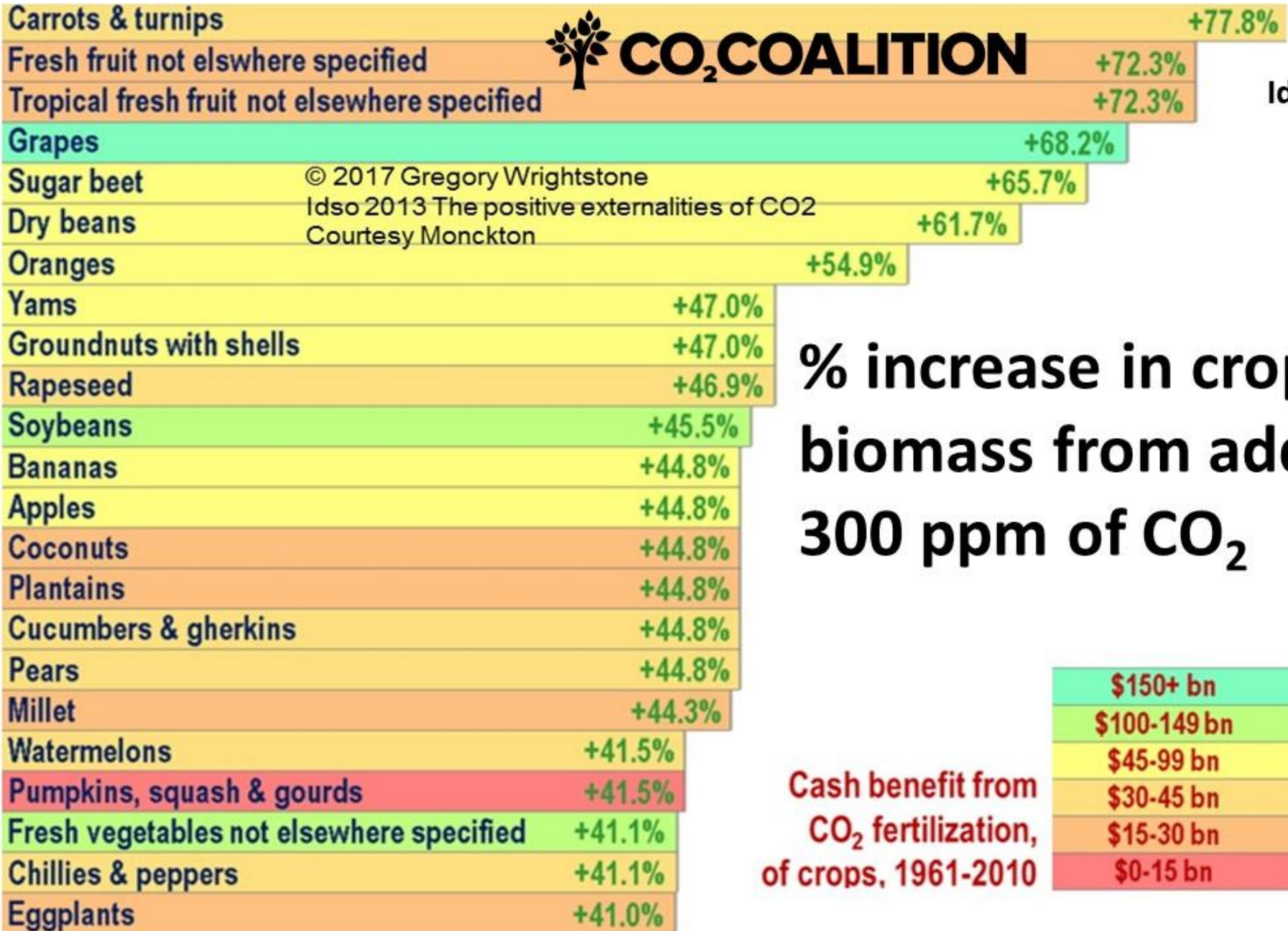
Fact 6: Our current geologic period (Quaternary) has the lowest average CO₂ levels in the history of the Earth.



Fact 7: Current CO2 levels are near record lows. We are CO2 impoverished.



Fact 8: More CO₂ means more plant growth.



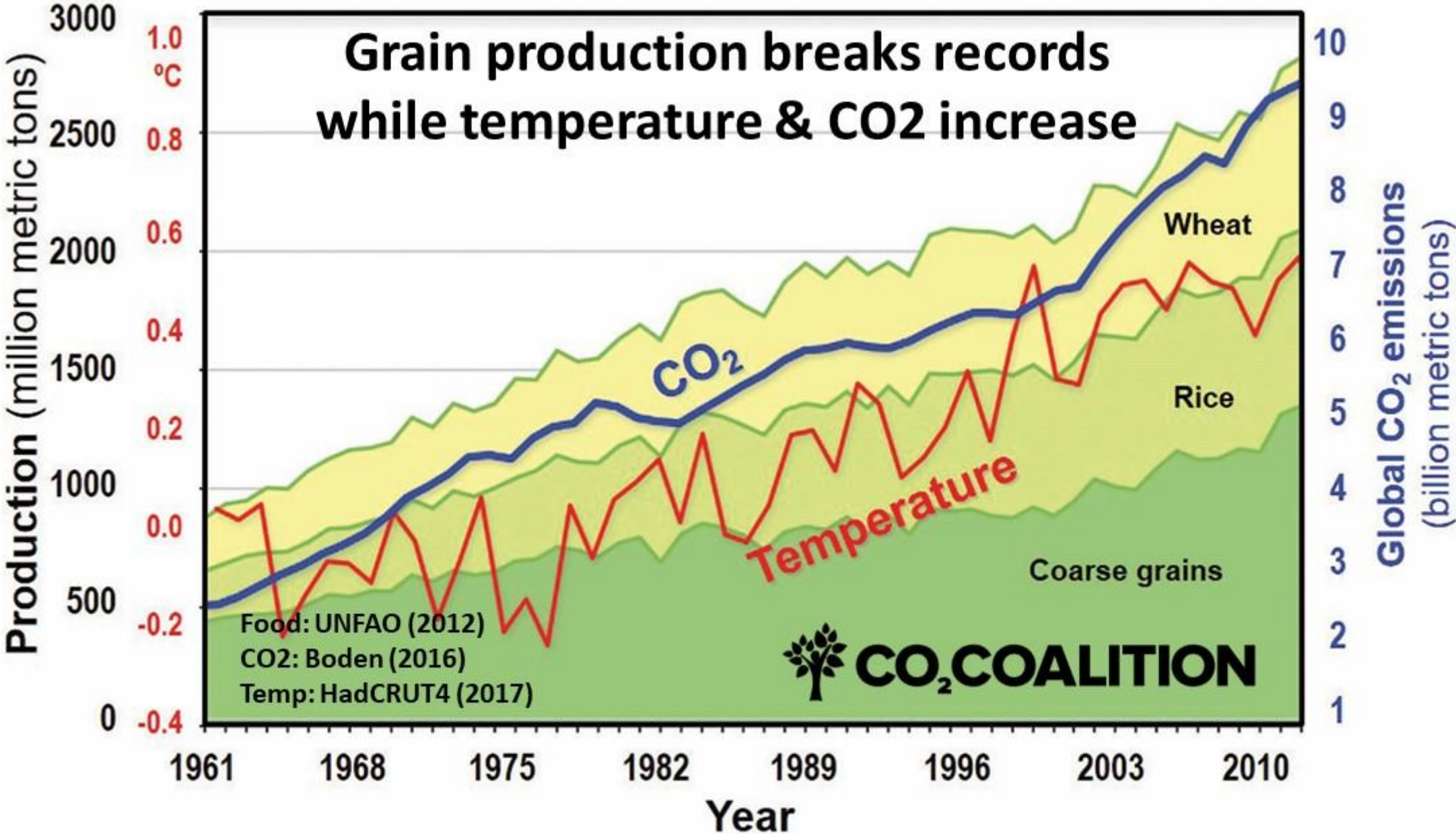
© 2017 Gregory Wrightstone
 Idso 2013 The positive externalities of CO₂
 Courtesy Monckton

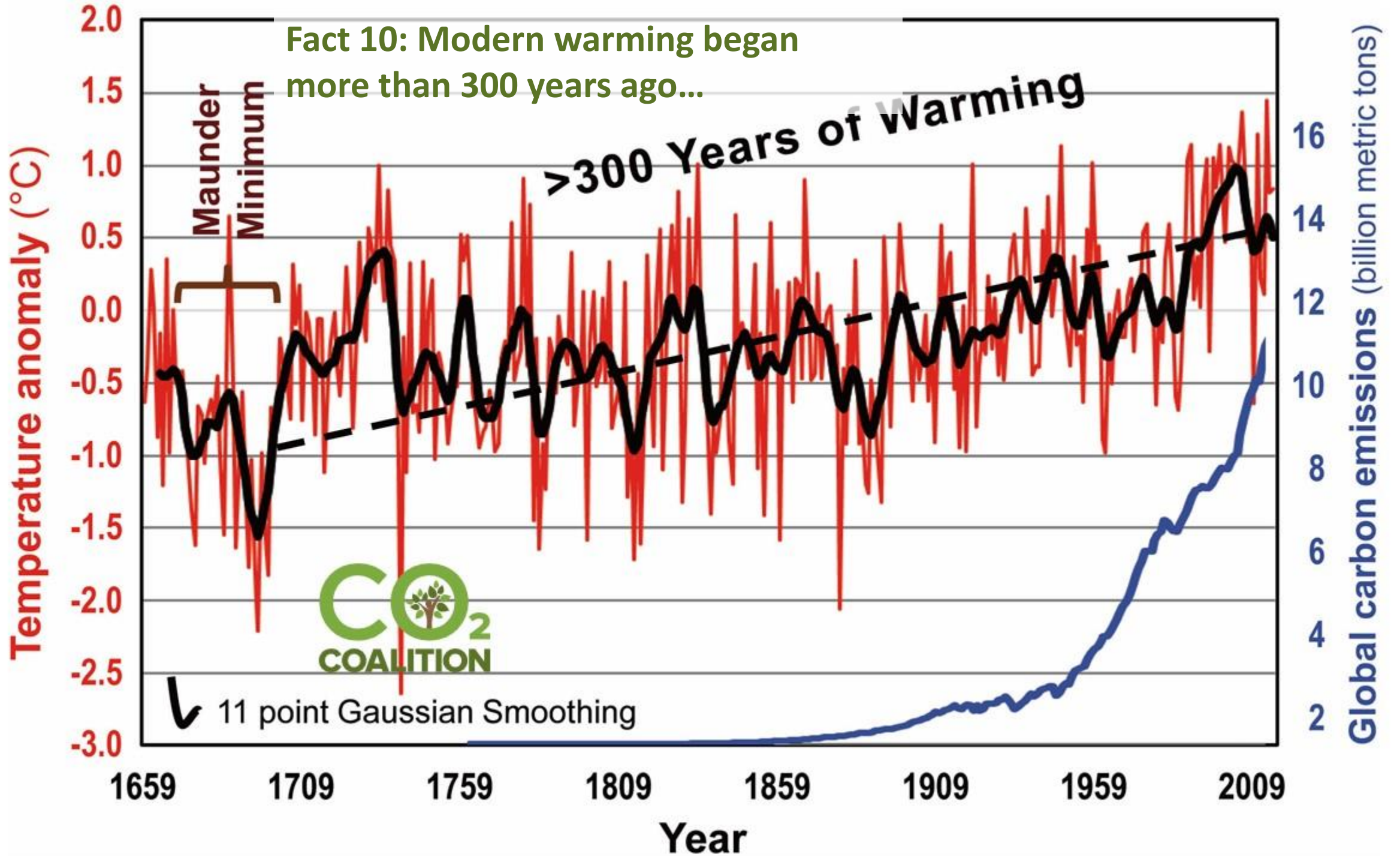
Idso 2013

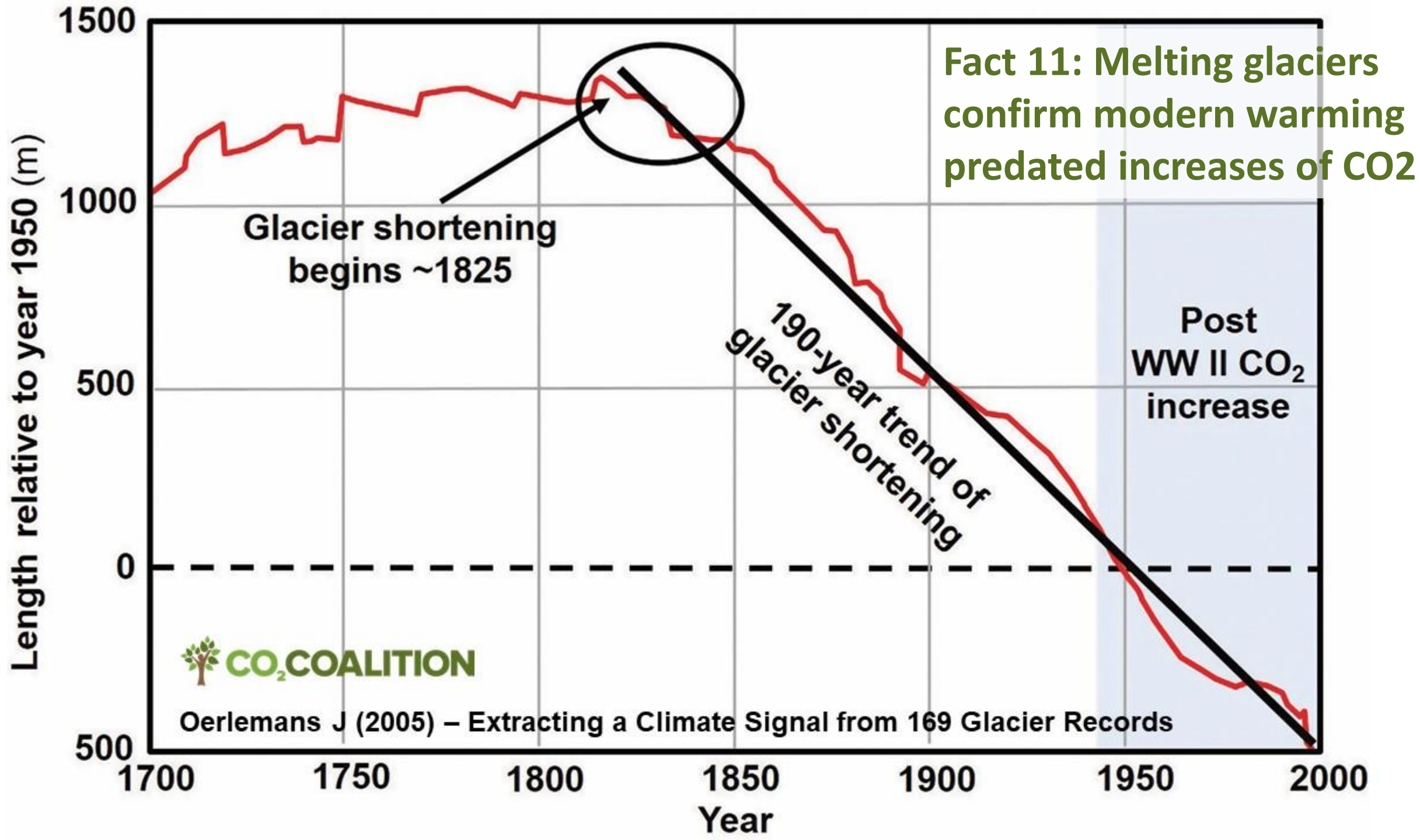
% increase in crop biomass from additional 300 ppm of CO₂



Fact 9: More CO2 helps to feed more people worldwide.

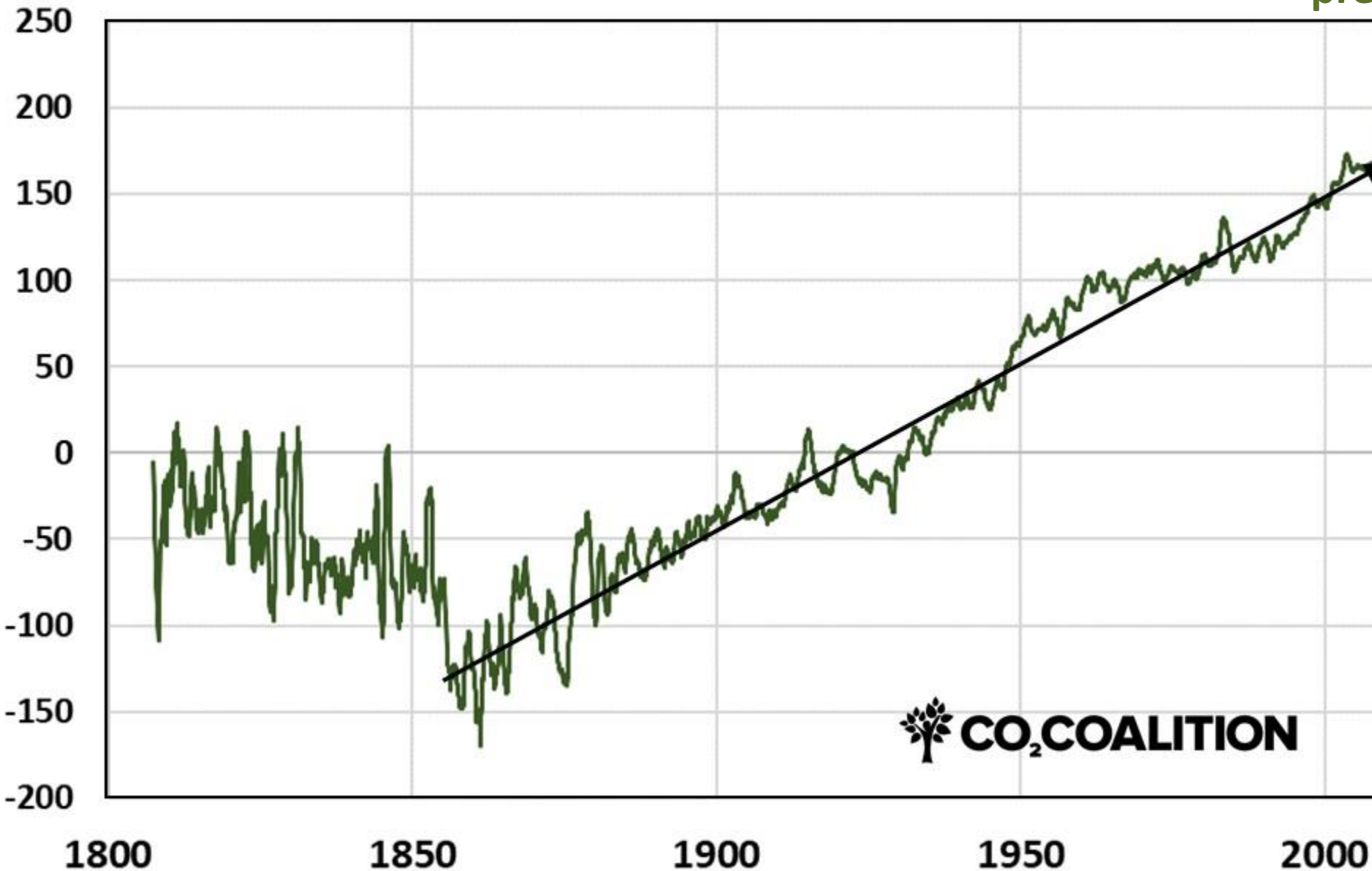




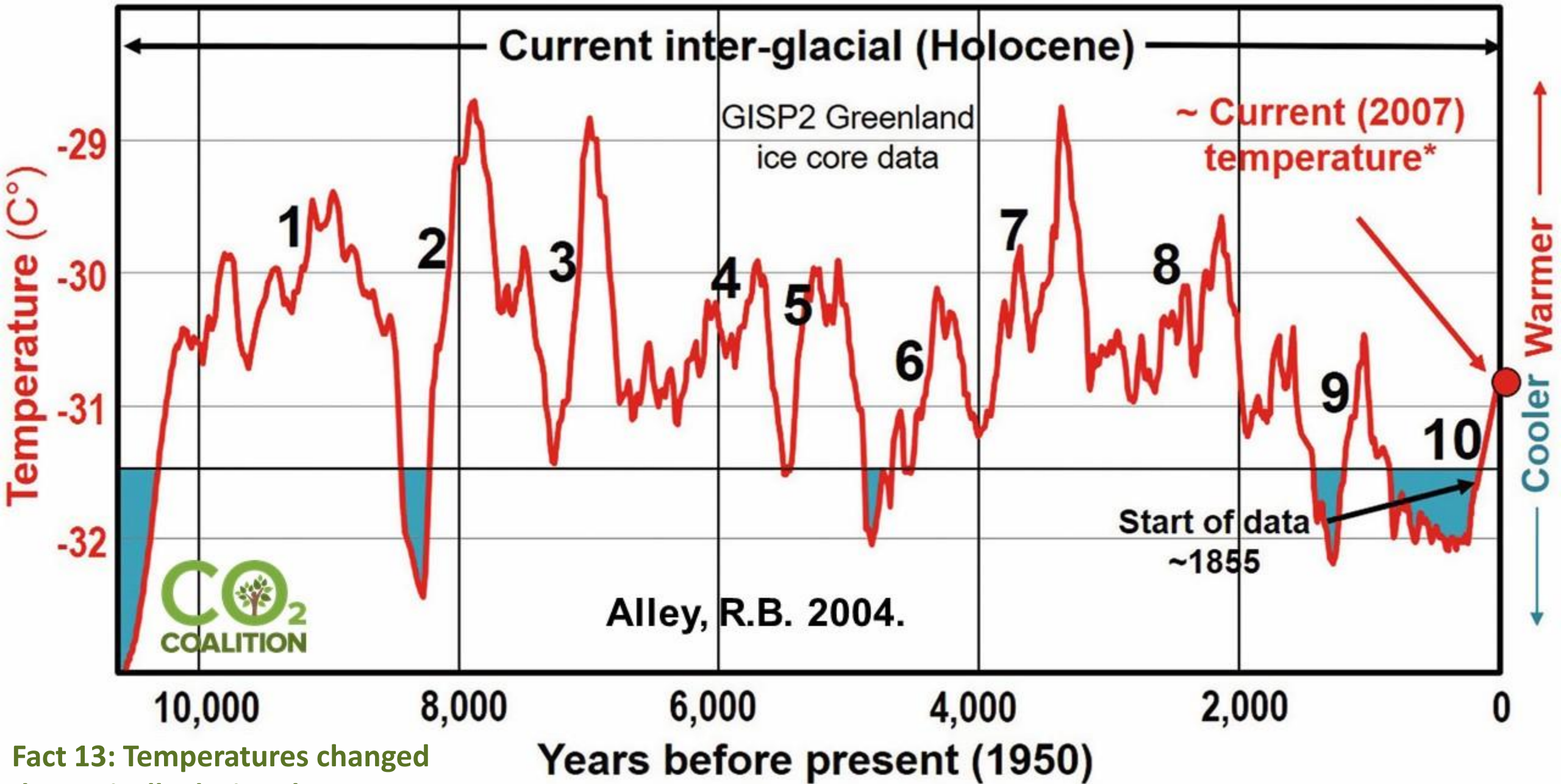


Global Sea Level (mm)
Jevrejeva et al. 2014

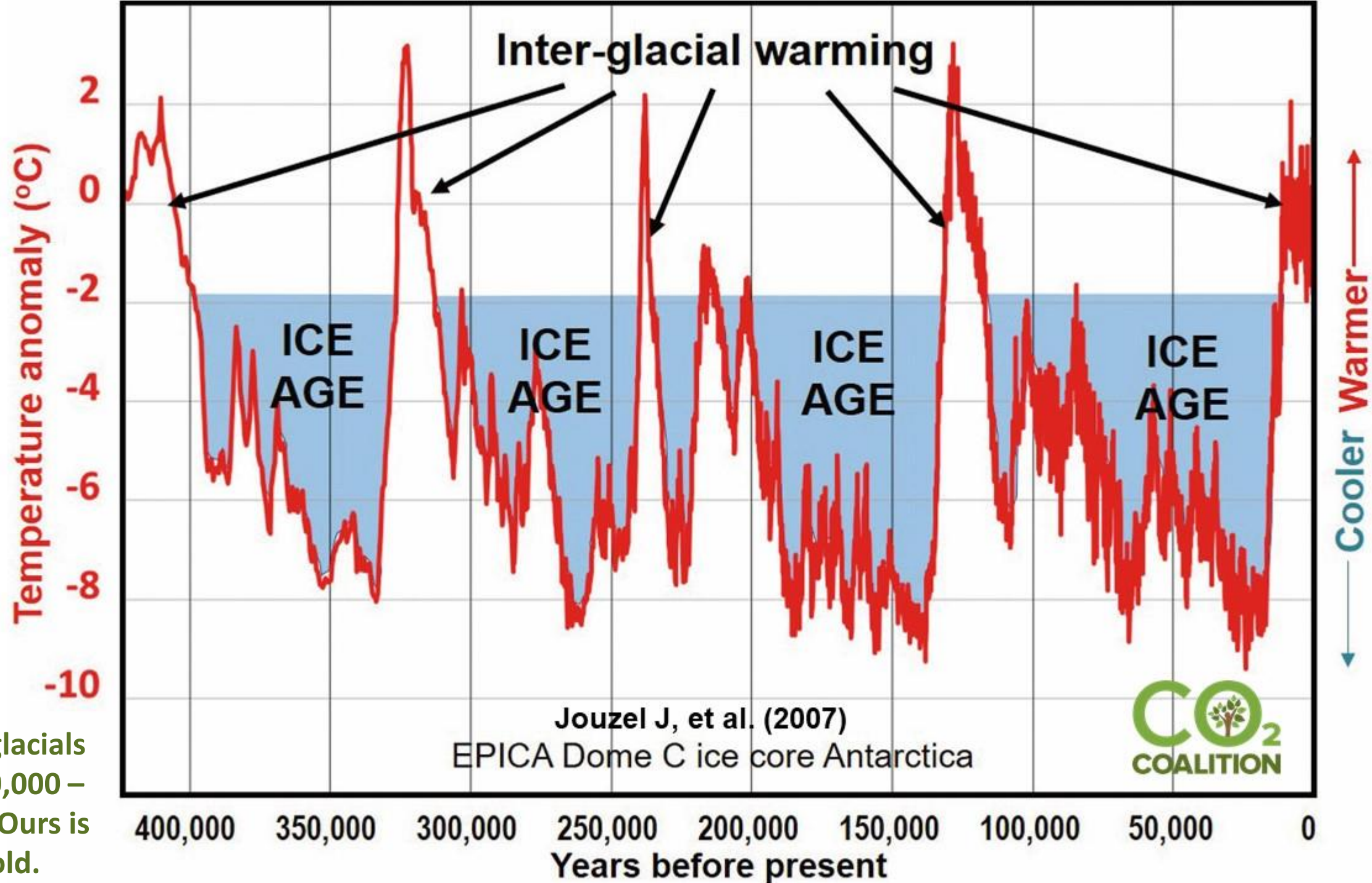
Fact 12: Rising sea levels confirm modern warming predated increases of CO2



330 mm Estwing
Rock Pick
H/T to David
Middleton for Estwing
use

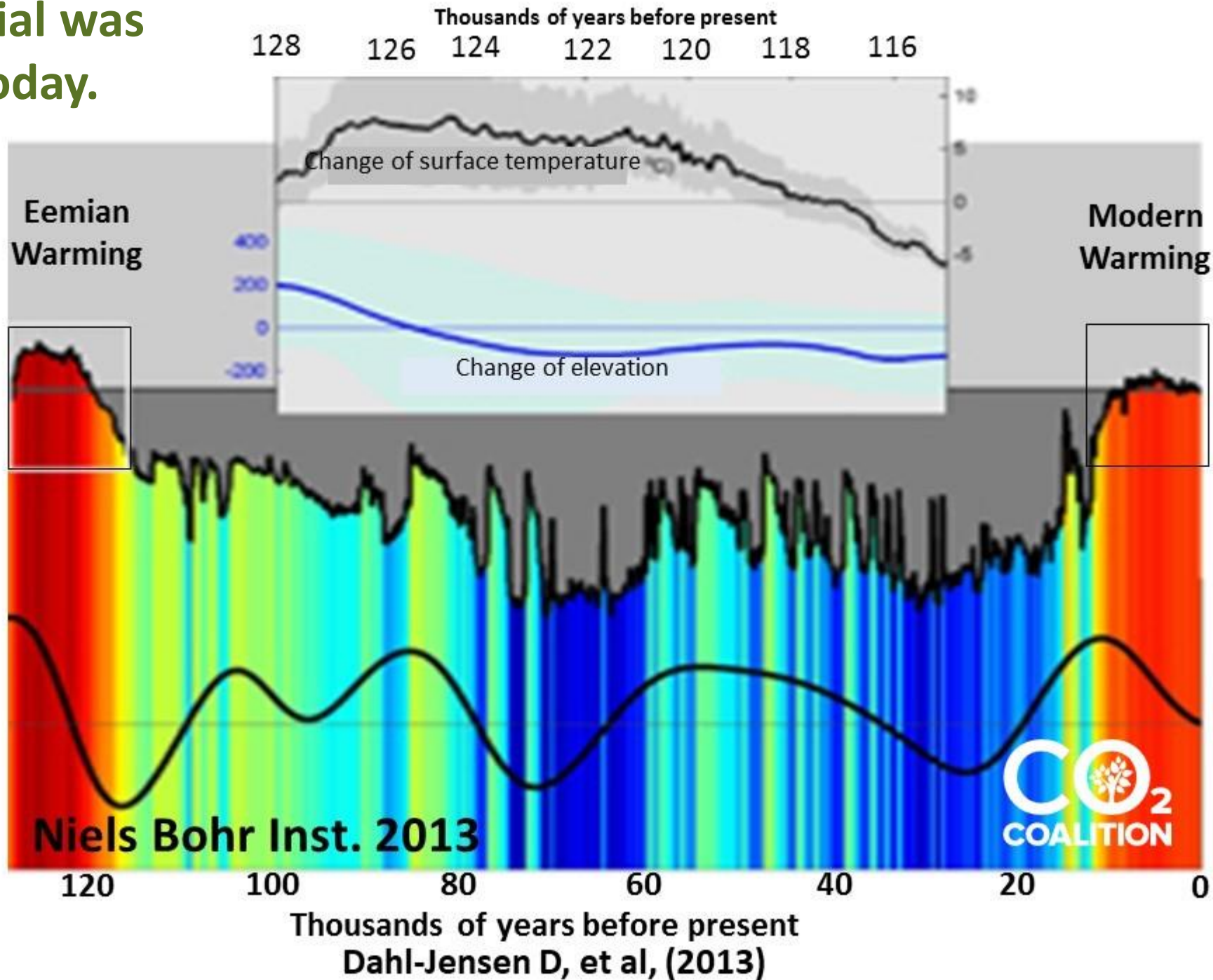


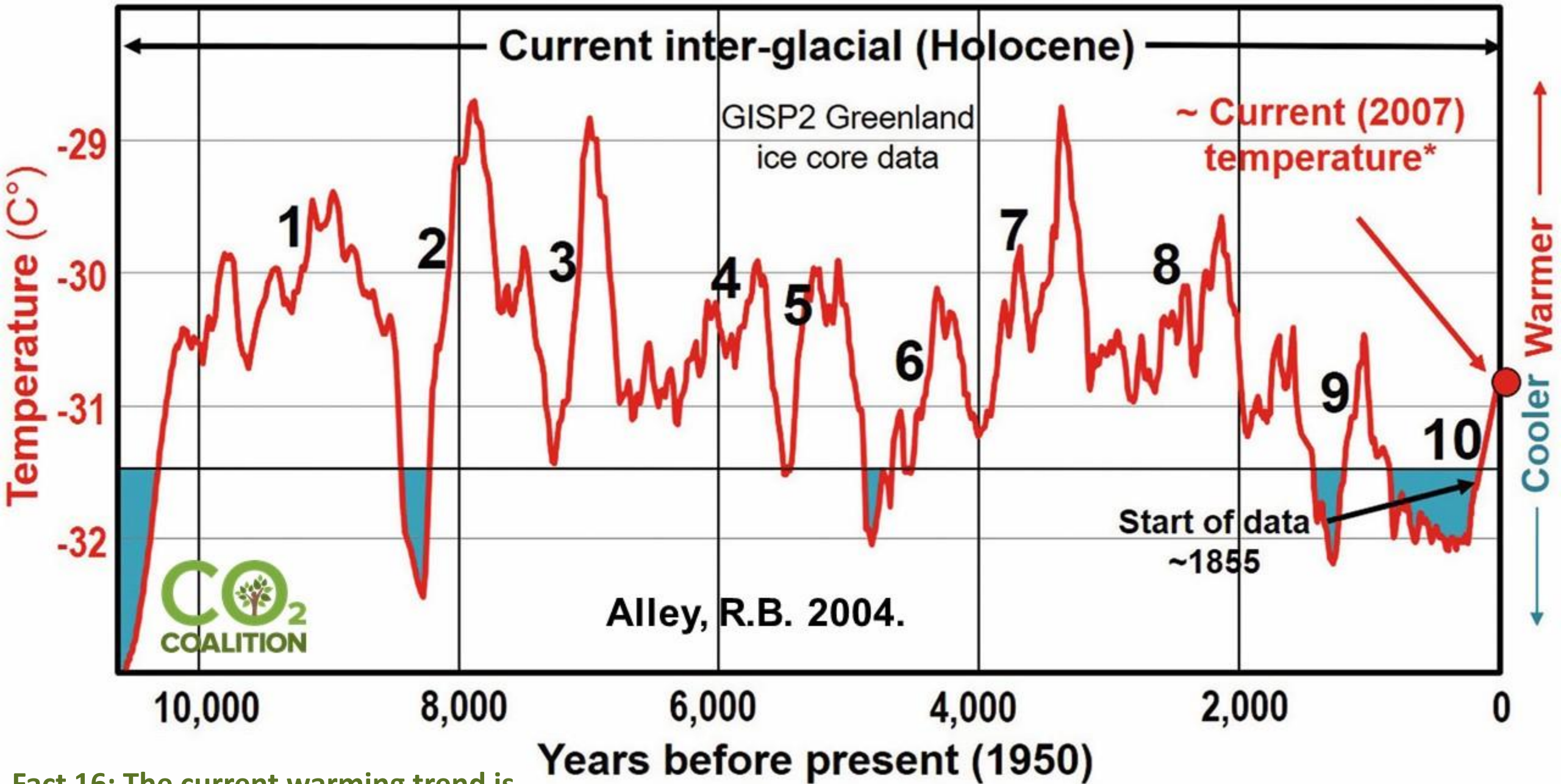
Fact 13: Temperatures changed dramatically during the past 10,000 years. It wasn't us.



Fact 14: Interglacials usually last 10,000 – 15,000 years. Ours is 11,000 years old.

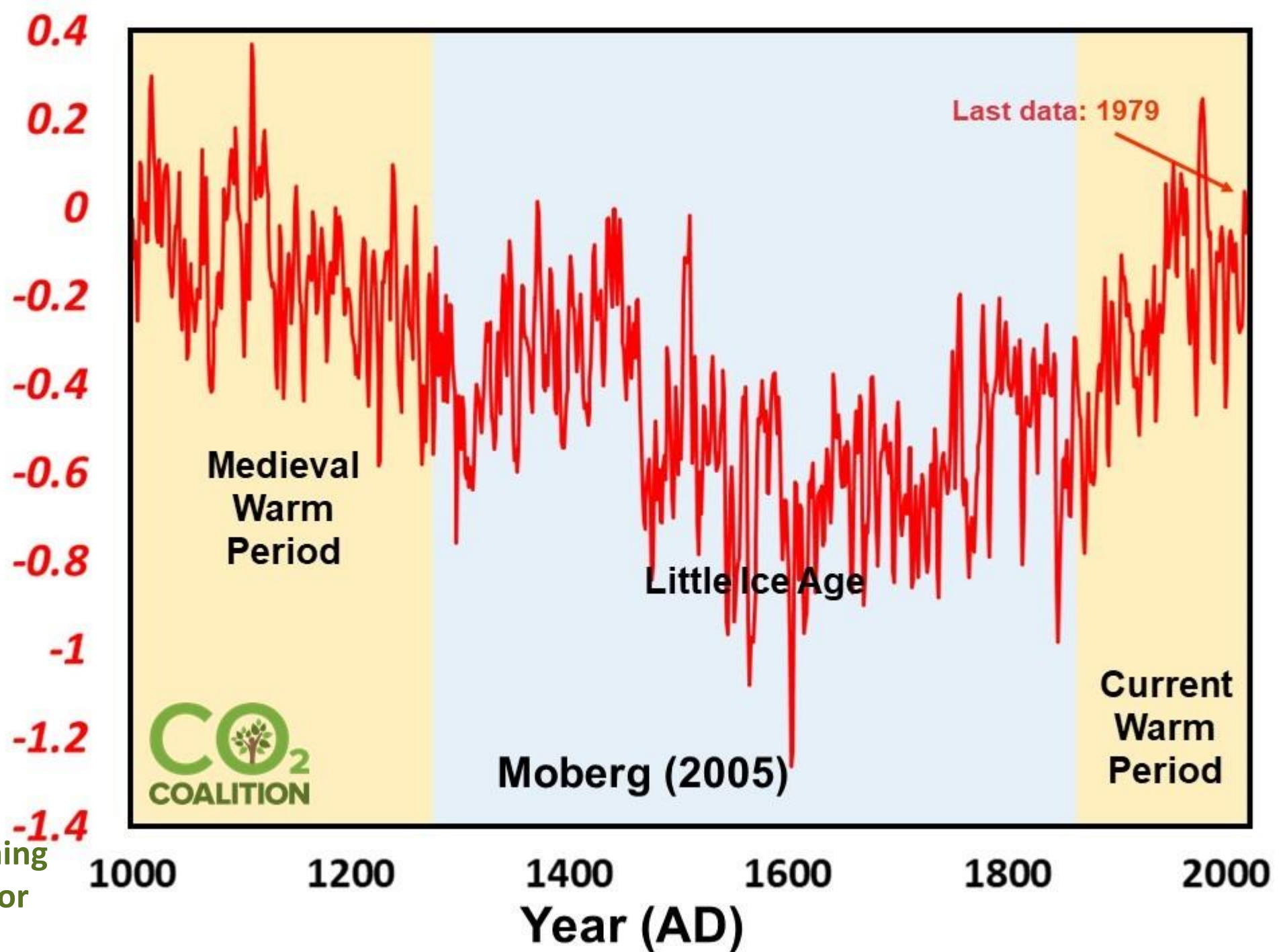
Fact 15: The last interglacial was 8°C (14°F) warmer than today. The polar bears survived. Greenland didn't melt.





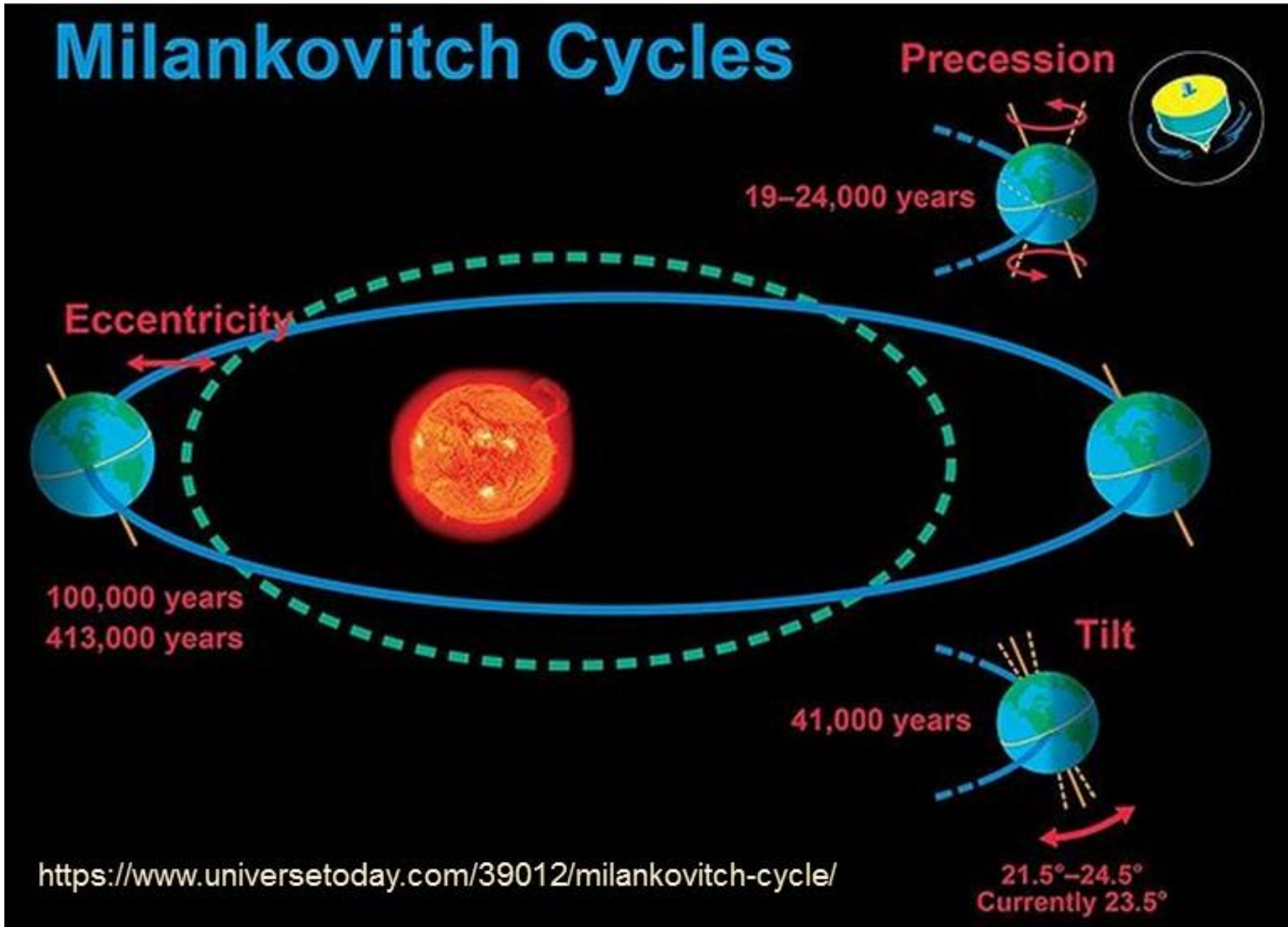
Fact 16: The current warming trend is neither unusual nor unprecedented (Part 1).

Temperature anomalies from
average of 1961 to 1990

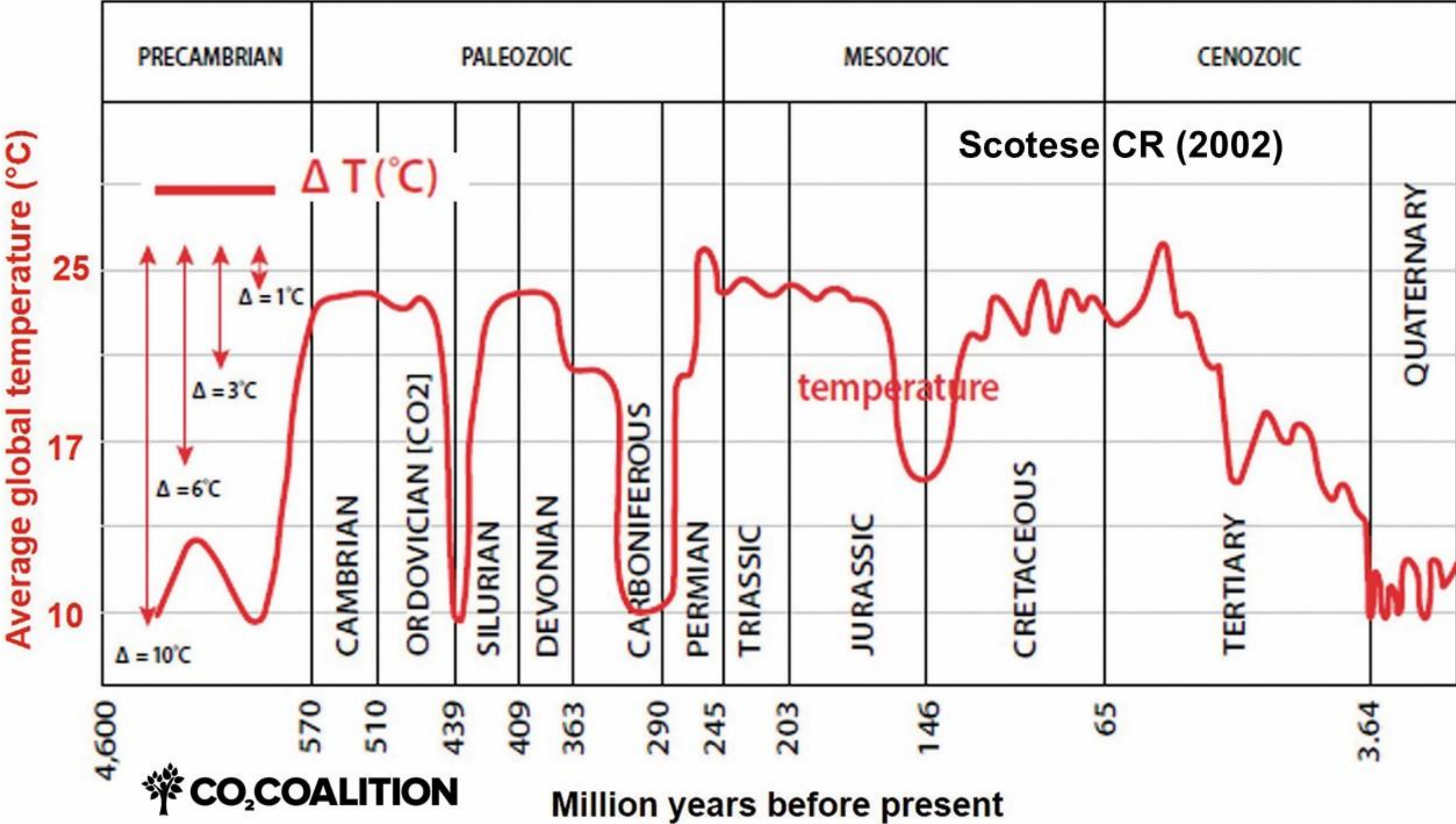


Fact 17: The current warming trend is neither unusual nor unprecedented (Part 2).

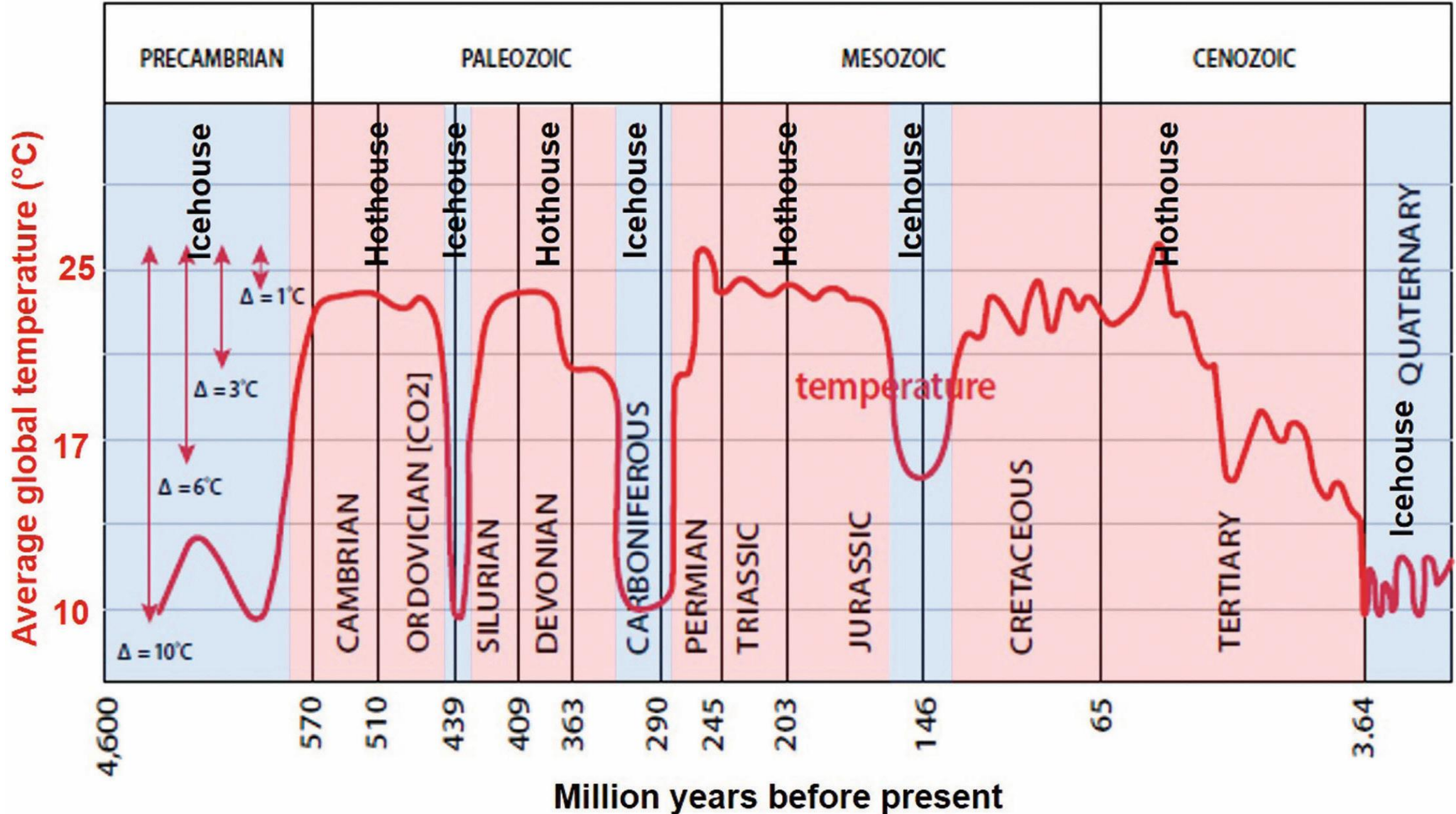
Fact 18: Earth's orbit and tilt drive glacial-interglacial changes.



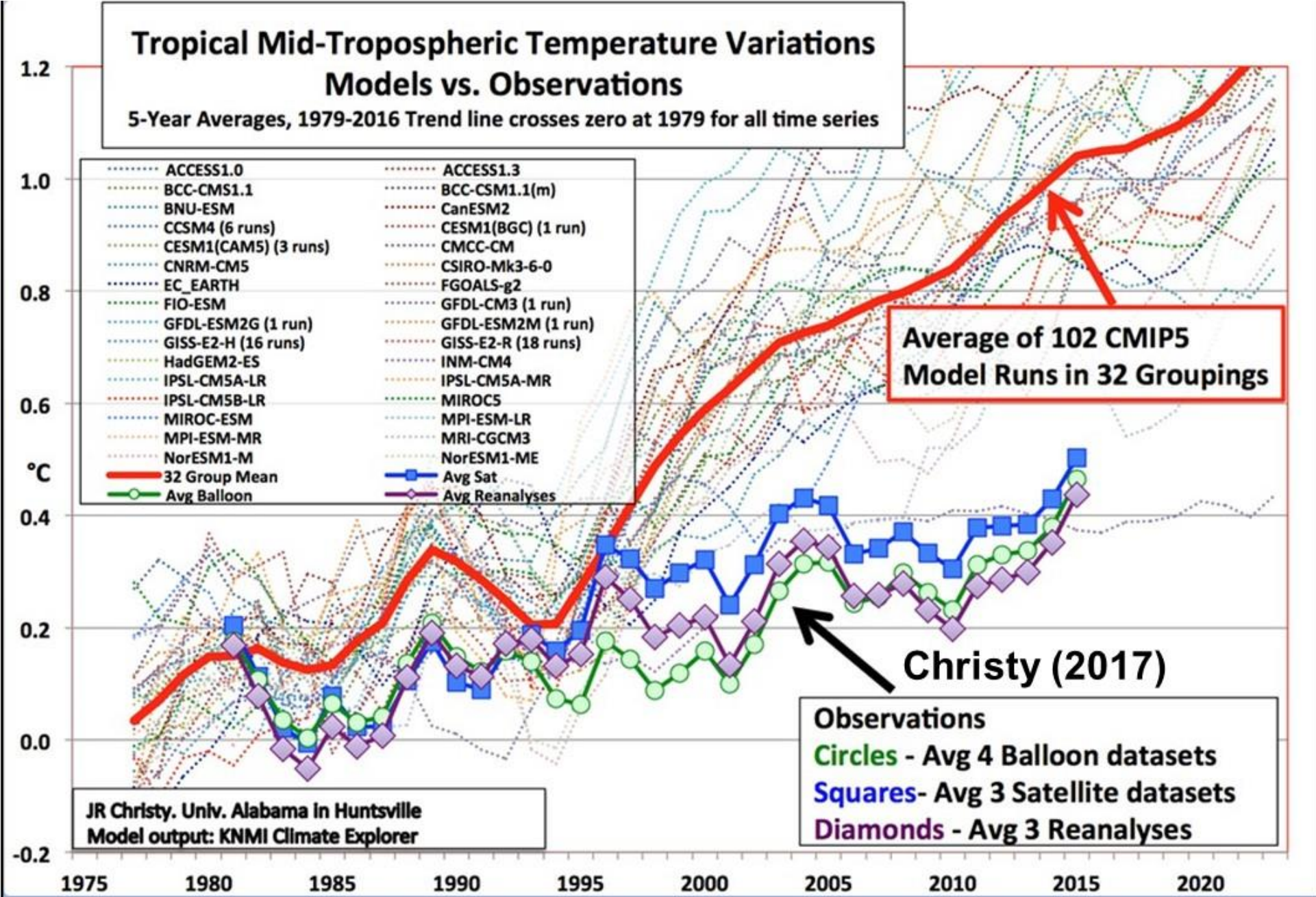
Fact 19: We are living in one of the coldest periods in all of Earth's history.



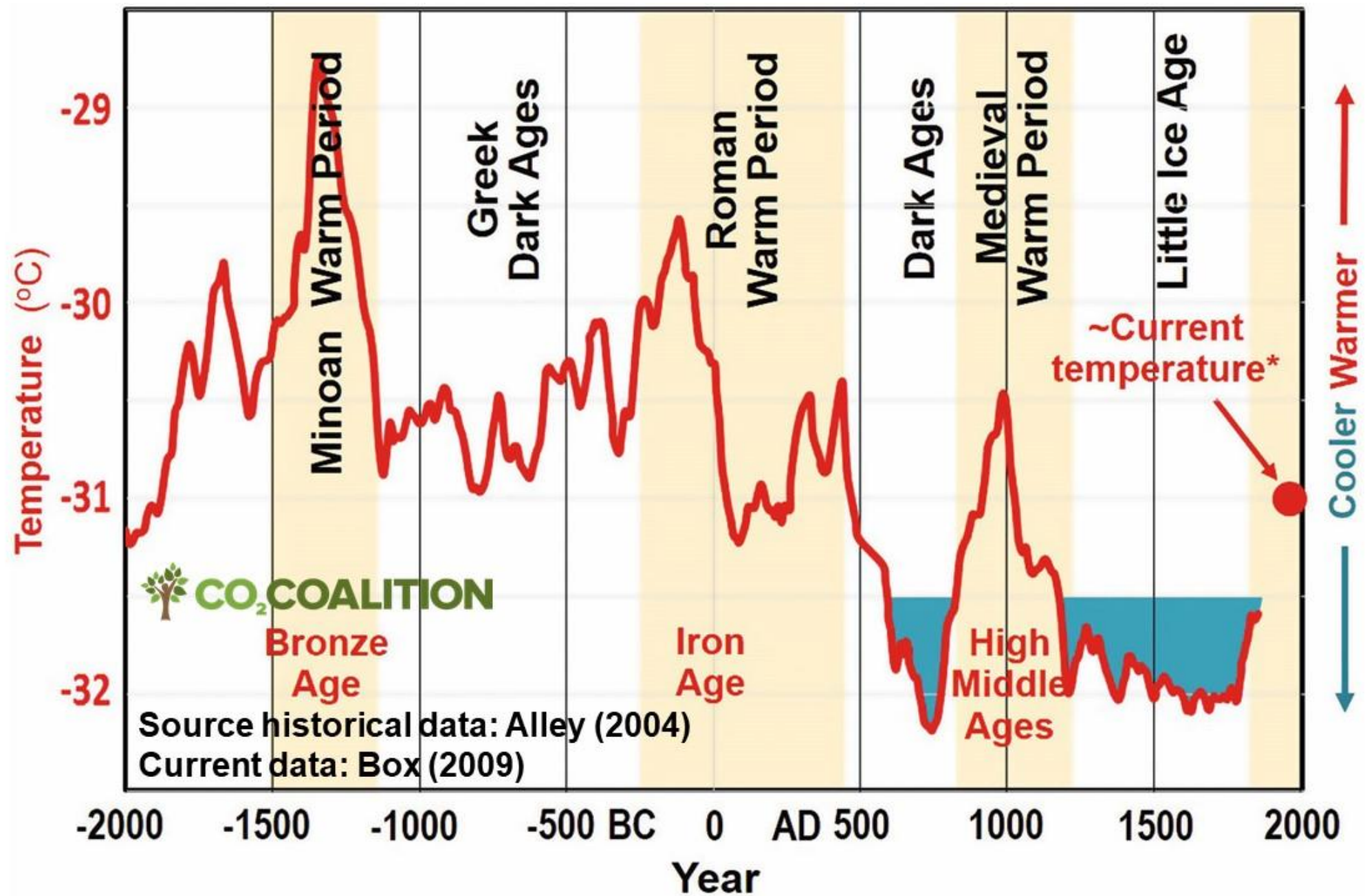
Fact 20: For most of Earth's history, it was about 10°C (18°F) warmer than today.



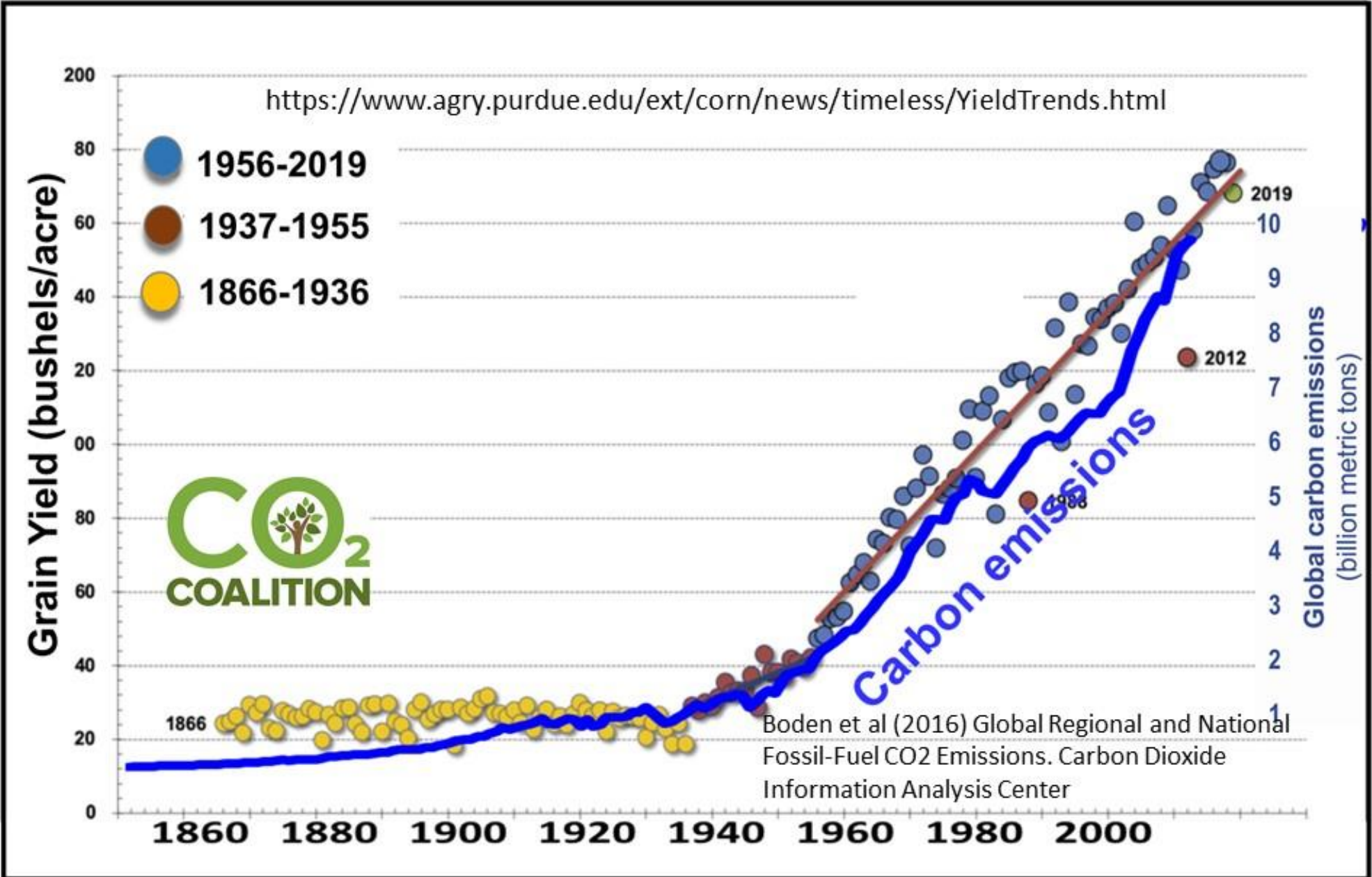
Fact 21: IPCC models have overstated warming up to three times too much.



Fact 22: For human advancement, warmer is better than colder.



Fact 23: CO2 increase is enhancing corn production... a lot



Fact 24: An “ideal” temperature is not that of 150 years ago

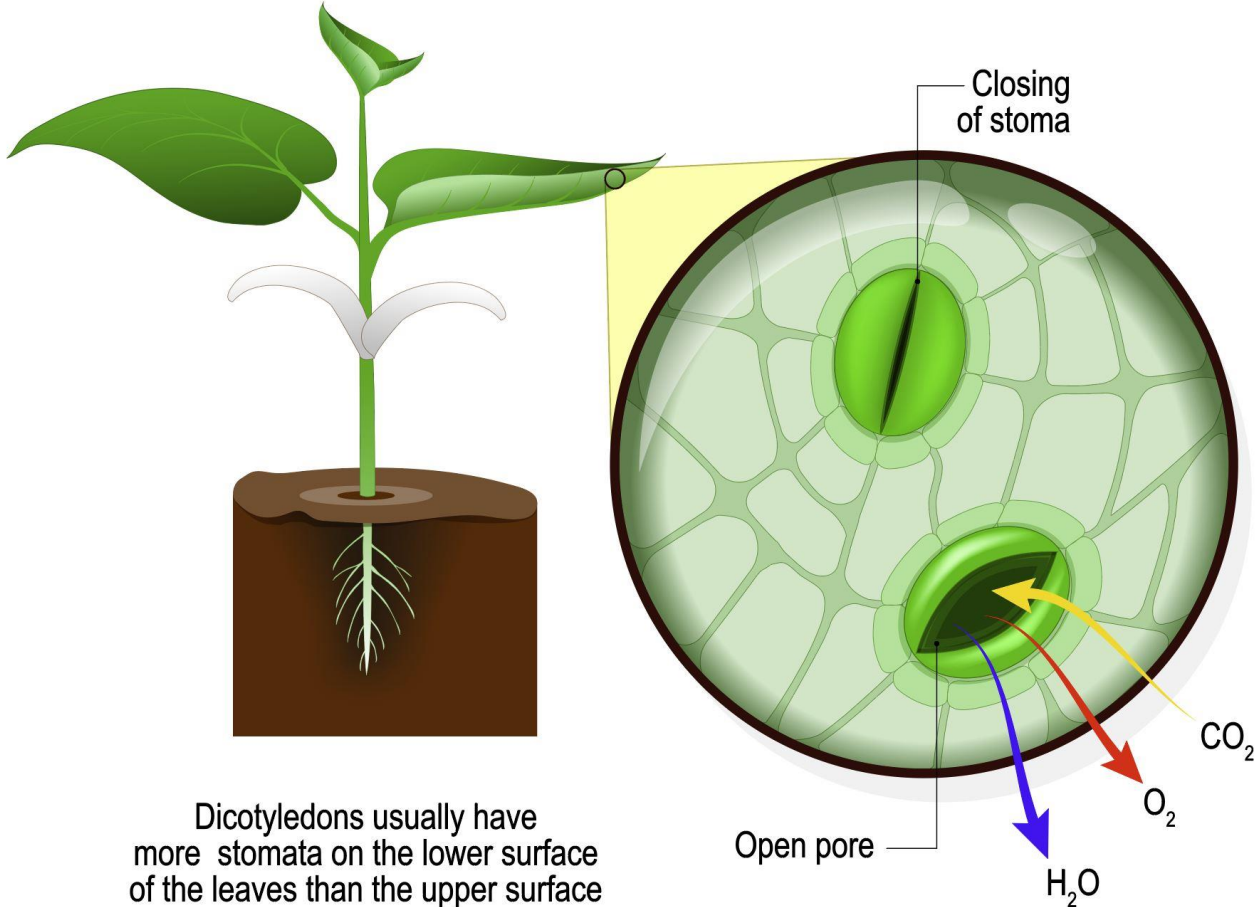
Cold periods = crop failure, pestilence, famine and mass depopulation

Greek Dark Ages, Dark Ages, Little Ice Age: Bad, very very bad

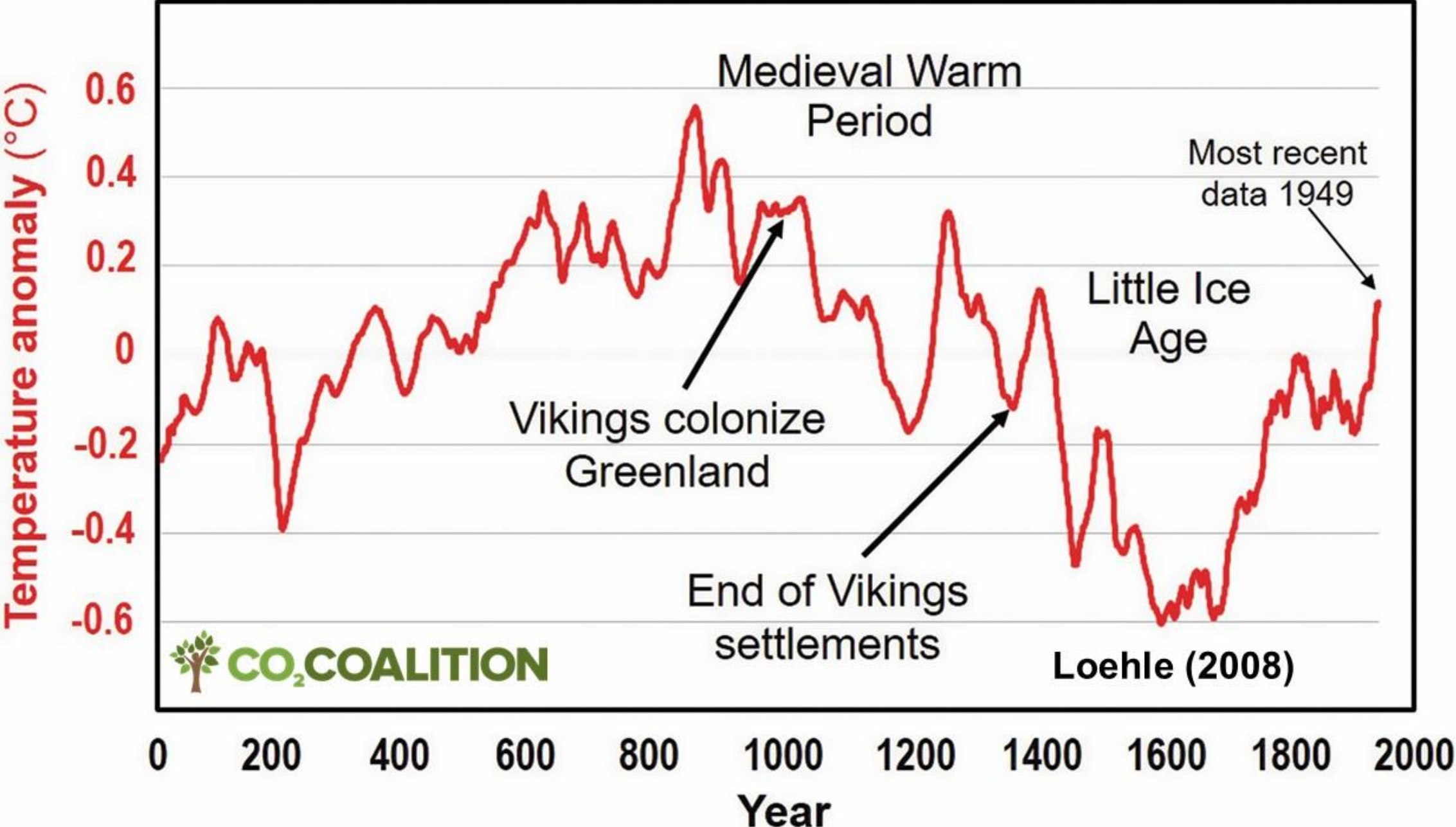


Fact 25: More CO2 means moister soil.

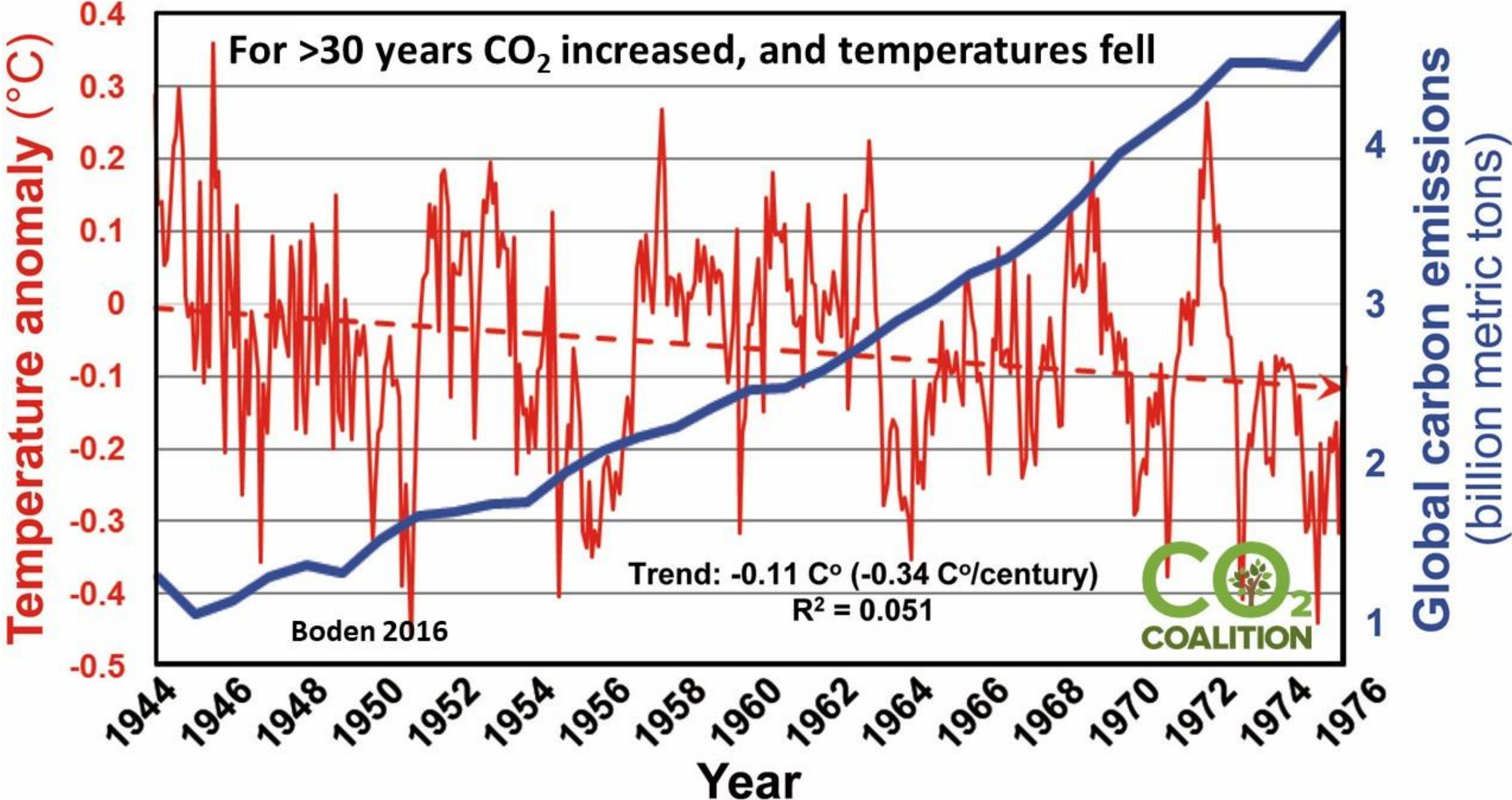
Function of a stoma



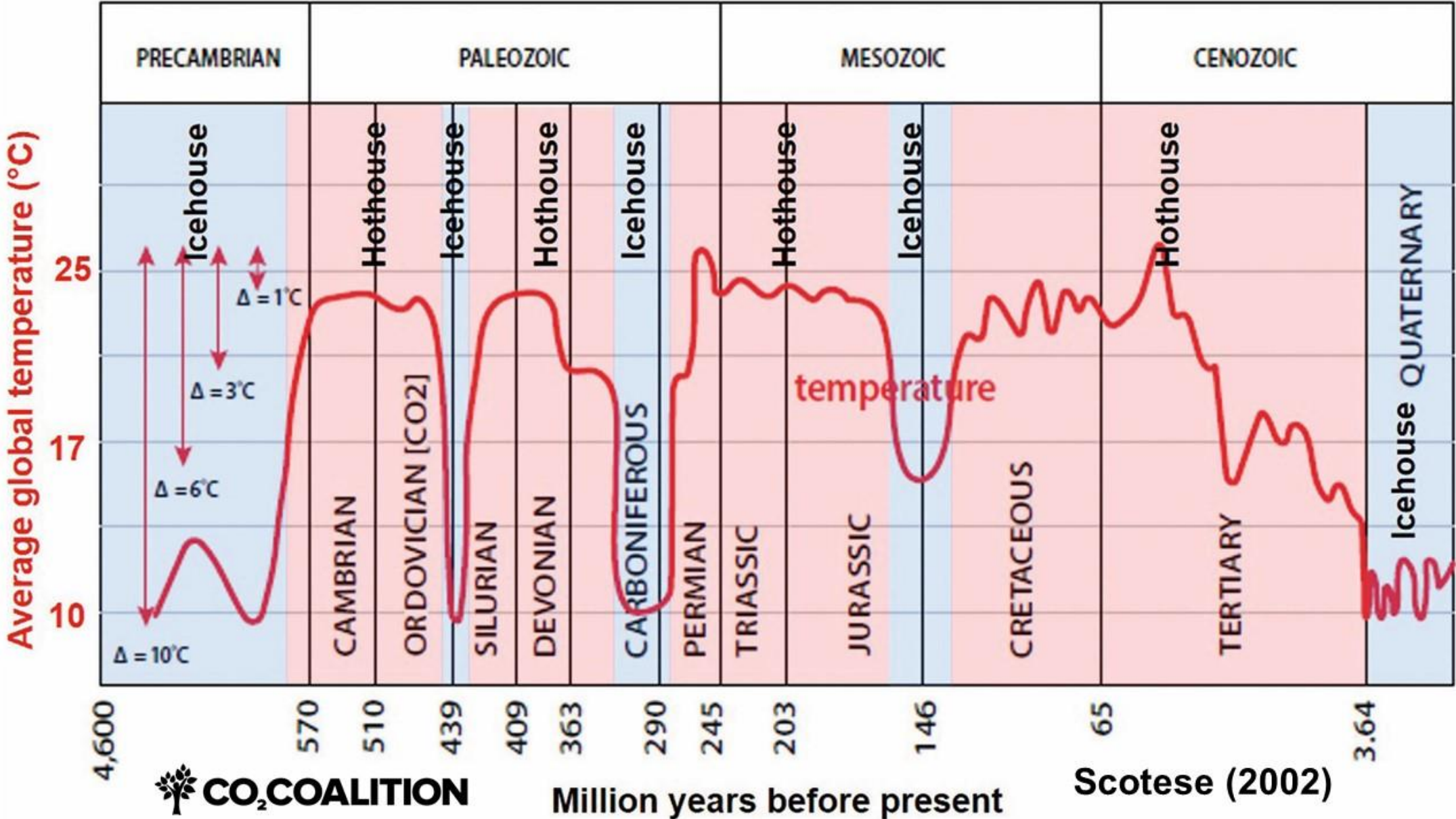
Fact 26: An “ideal” temperature is not that of 150 years ago



Fact 27: CO2 rose after the Second World War, but temperature fell

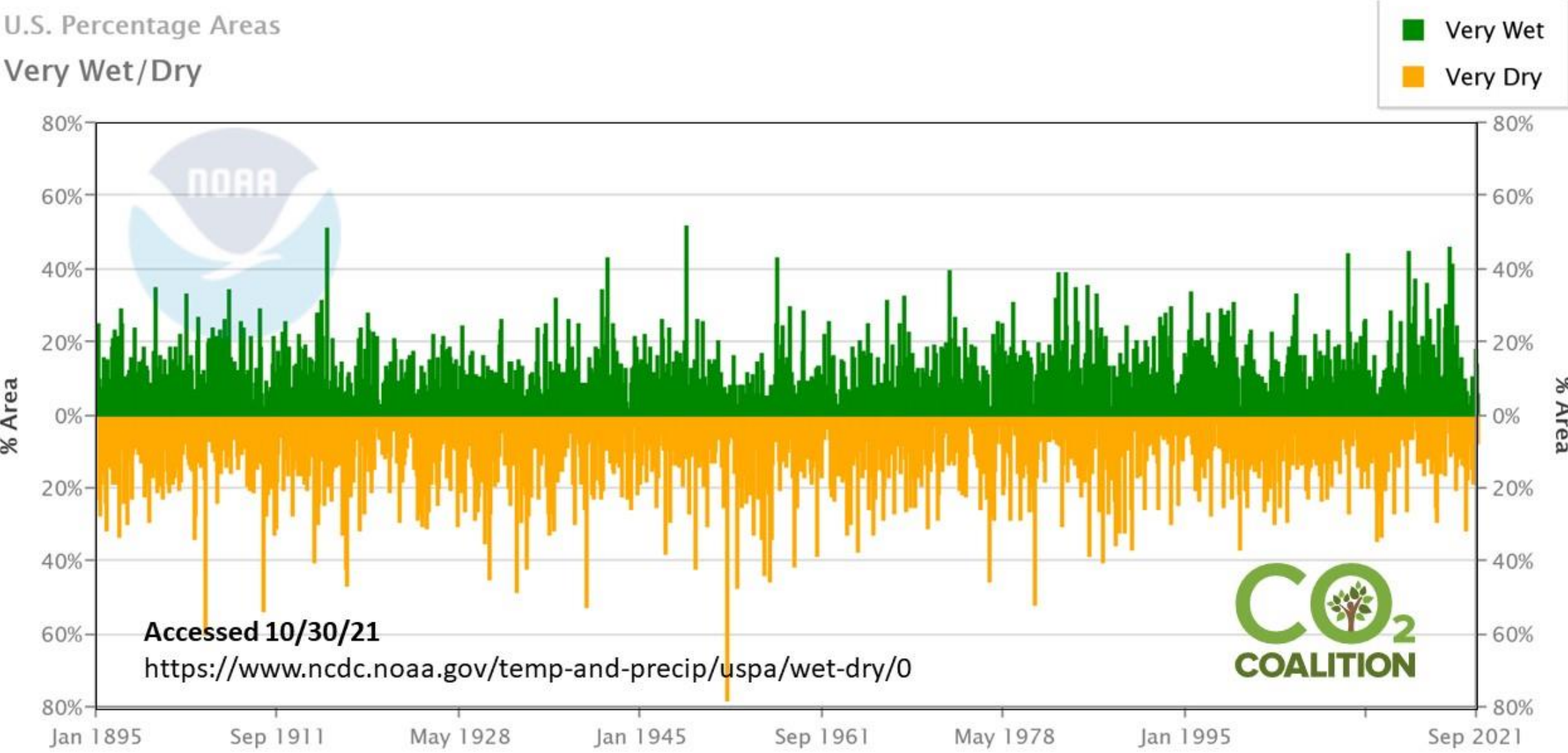


Fact 28: The only thing constant about temperatures over 600 million years is that they have been constantly changing.

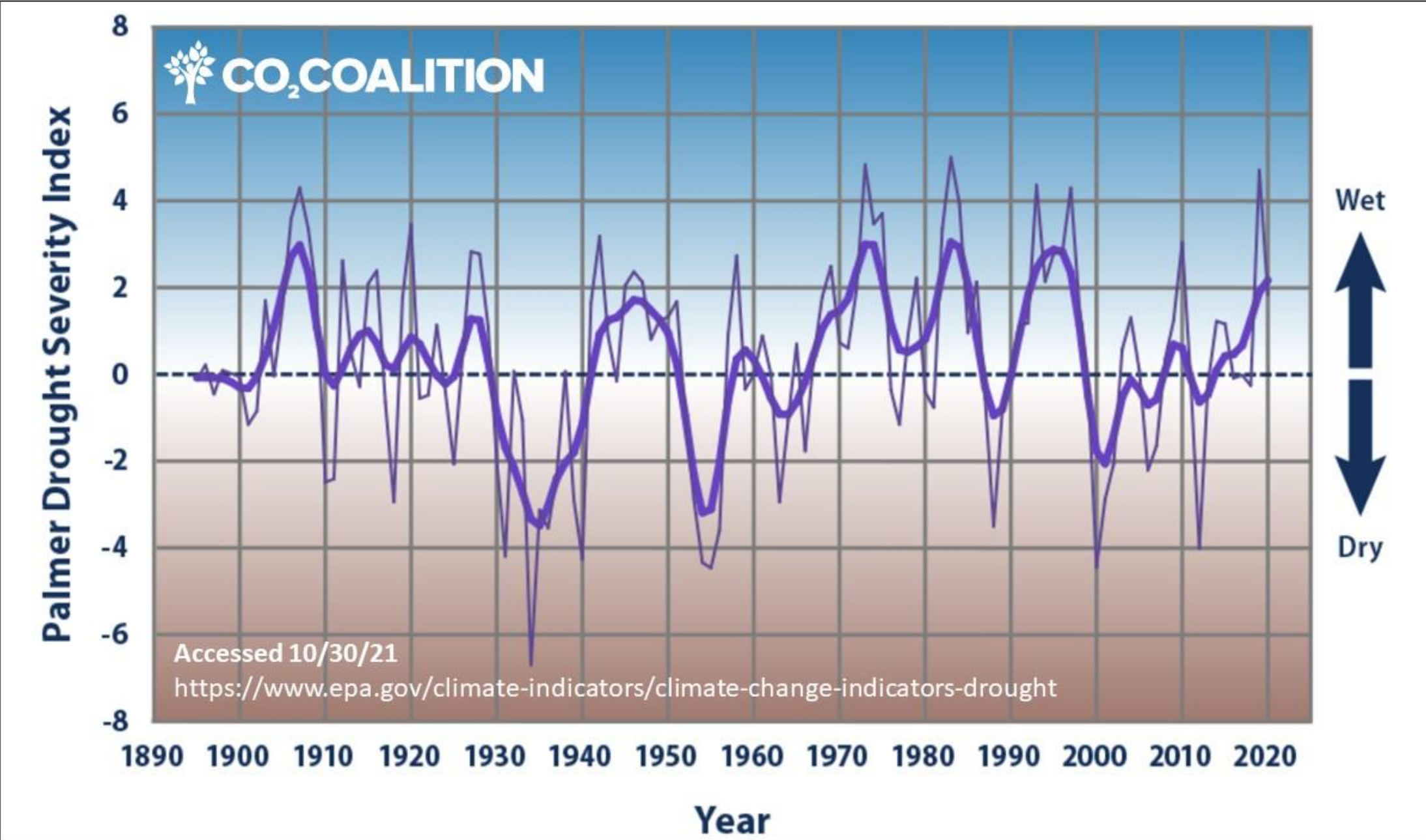


Fact 29: Droughts are not increasing in the U.S. (NOAA) (Part 1)

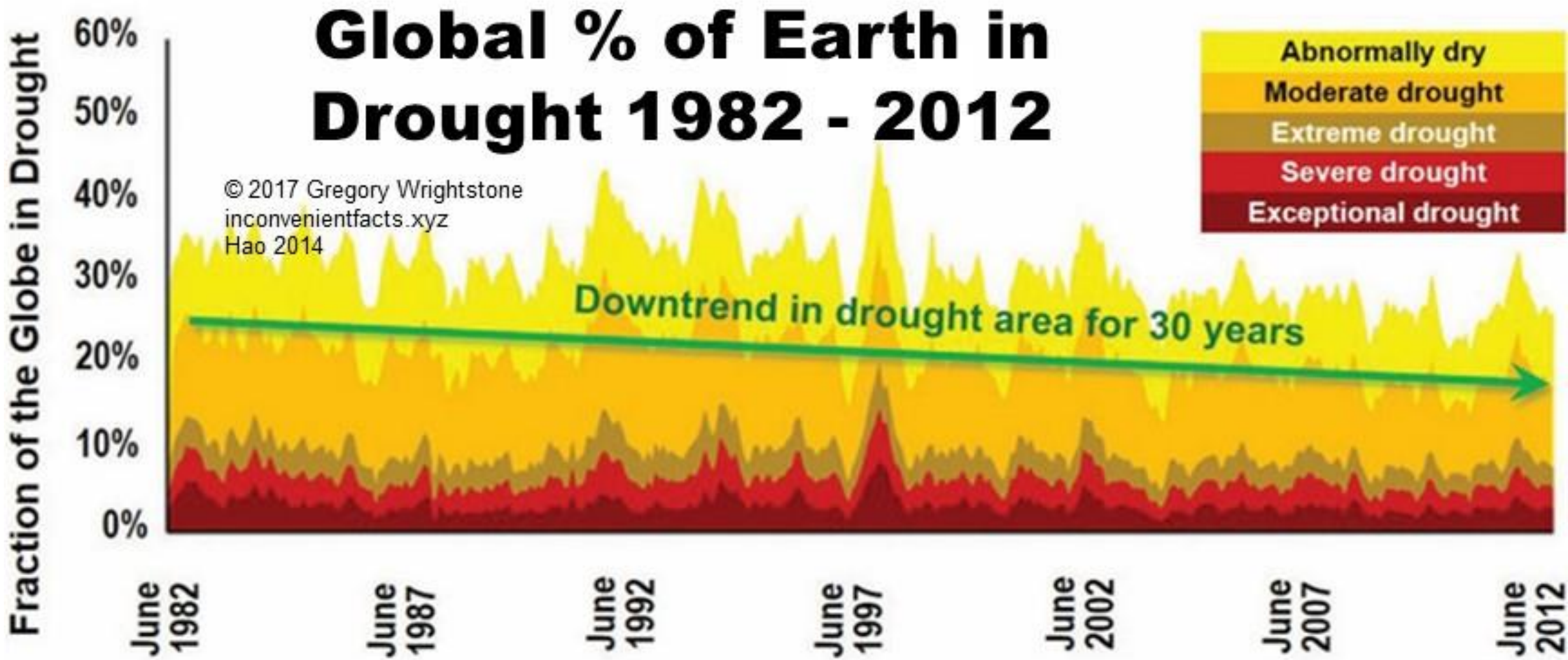
NOAA - U.S. Percentage Areas (Very Warm/Cold, Very Wet/Dry)



Fact 30: Droughts are not increasing in the U.S. (NOAA) (Part 2)



Fact 31: Globally droughts are in decline





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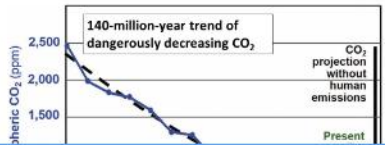
Temperature (17)

CO₂ vs Temperature (3)

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Weather (3)



Fact #1

CO₂

140-million-year trend of

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“The conclusions of the IPCC, and presented in the language of the IPCC, indicate that **it is simply incorrect to claim that on climate time scales **the frequency or intensity of extreme weather and climate events has increased** for: flooding, drought (meteorological or hydrological), tropical cyclones, winter storms, thunderstorms, tornadoes, hail, lightning or extreme winds (storms of any type).”**

- *Quote from review Article at:*

<https://rogerpielkejr.substack.com/p/how-to-understand-the-new-ipcc-report-1e3>

- *Article details all relevant content in the 2021 IPCC Report*

