

“The Global Warming Swindle”

Martin Durkin, Channel 4

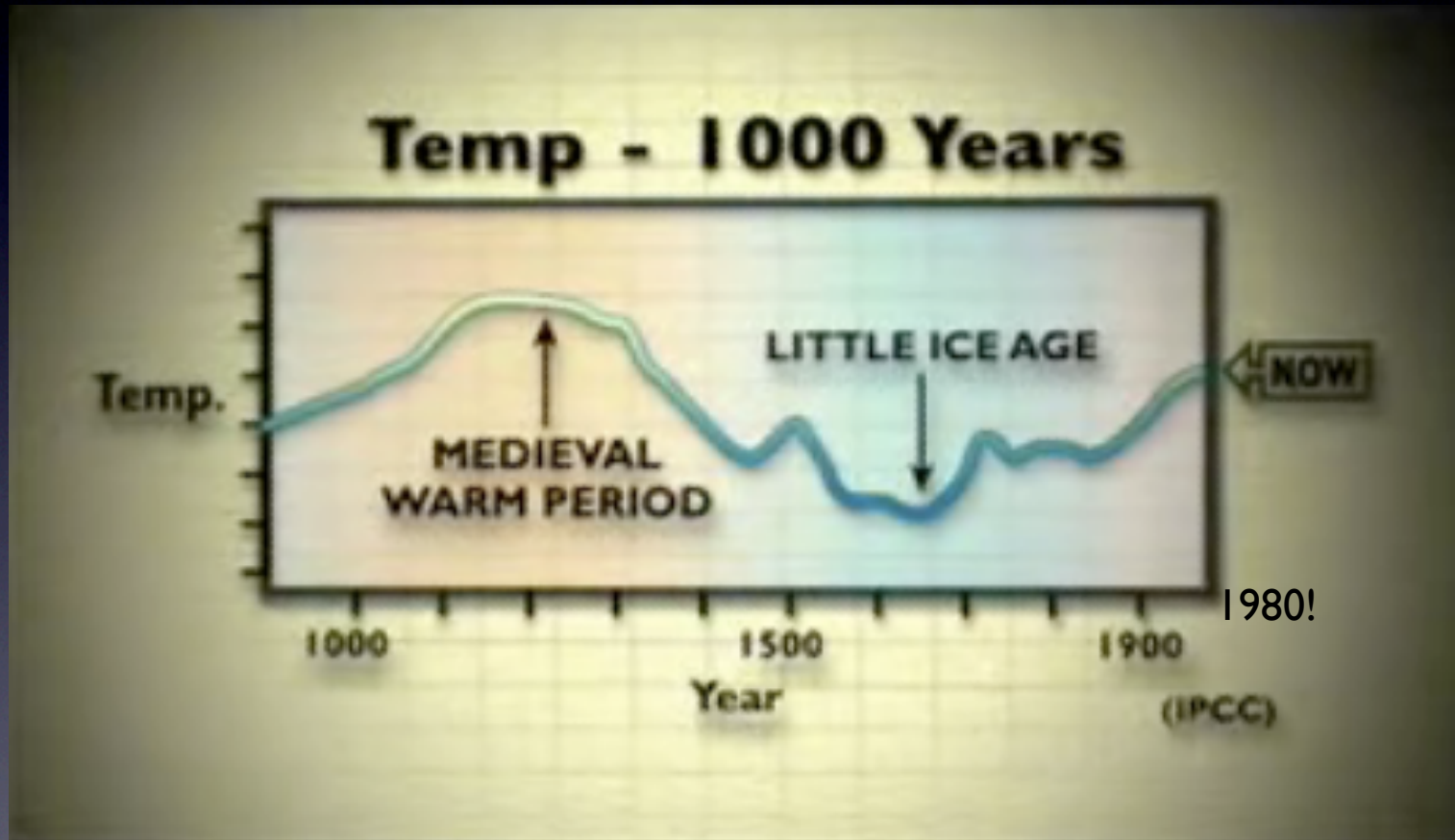
Premiere: March 8, 2007

It's a good thing that this program was made:

- Challenges to mainstream belief are good for science.
- “Swindle” contains some nontrivial challenges and inspired a lot of research, which is also good for science.

Outdated Data:

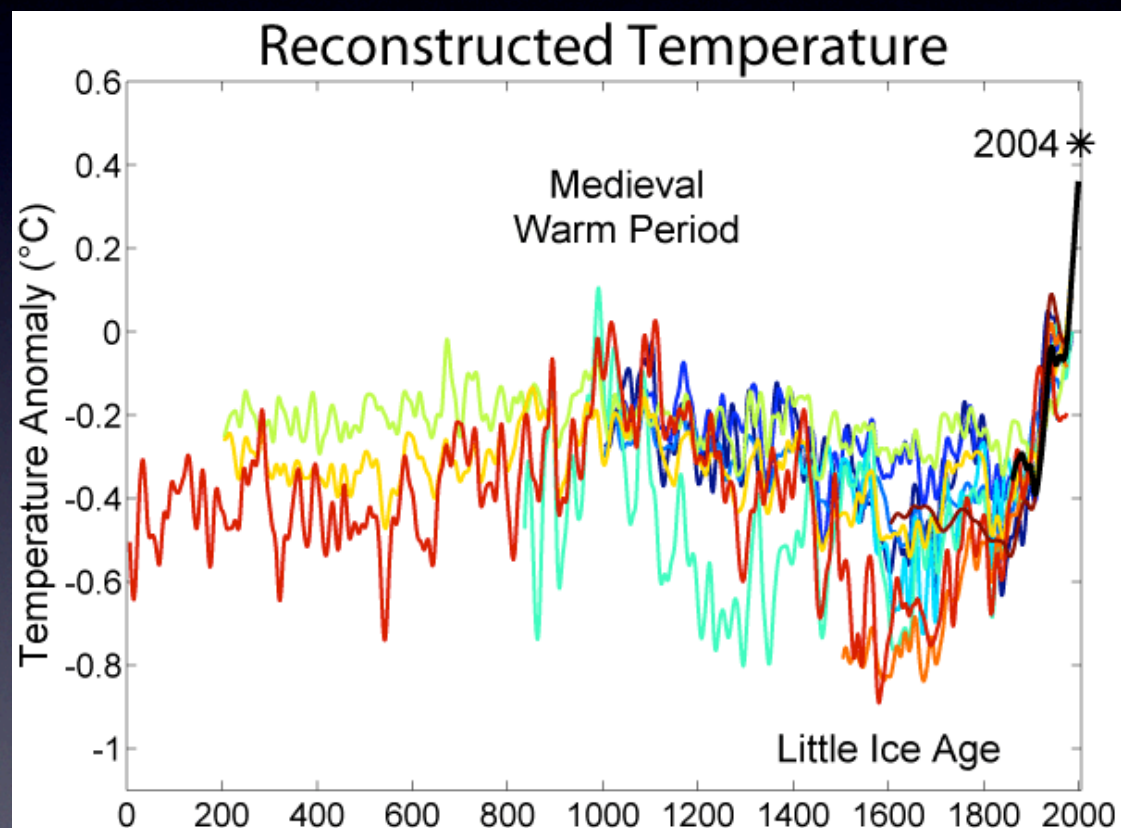
Medieval Warm Period



Herbert Lamm, 1980

Current Data:

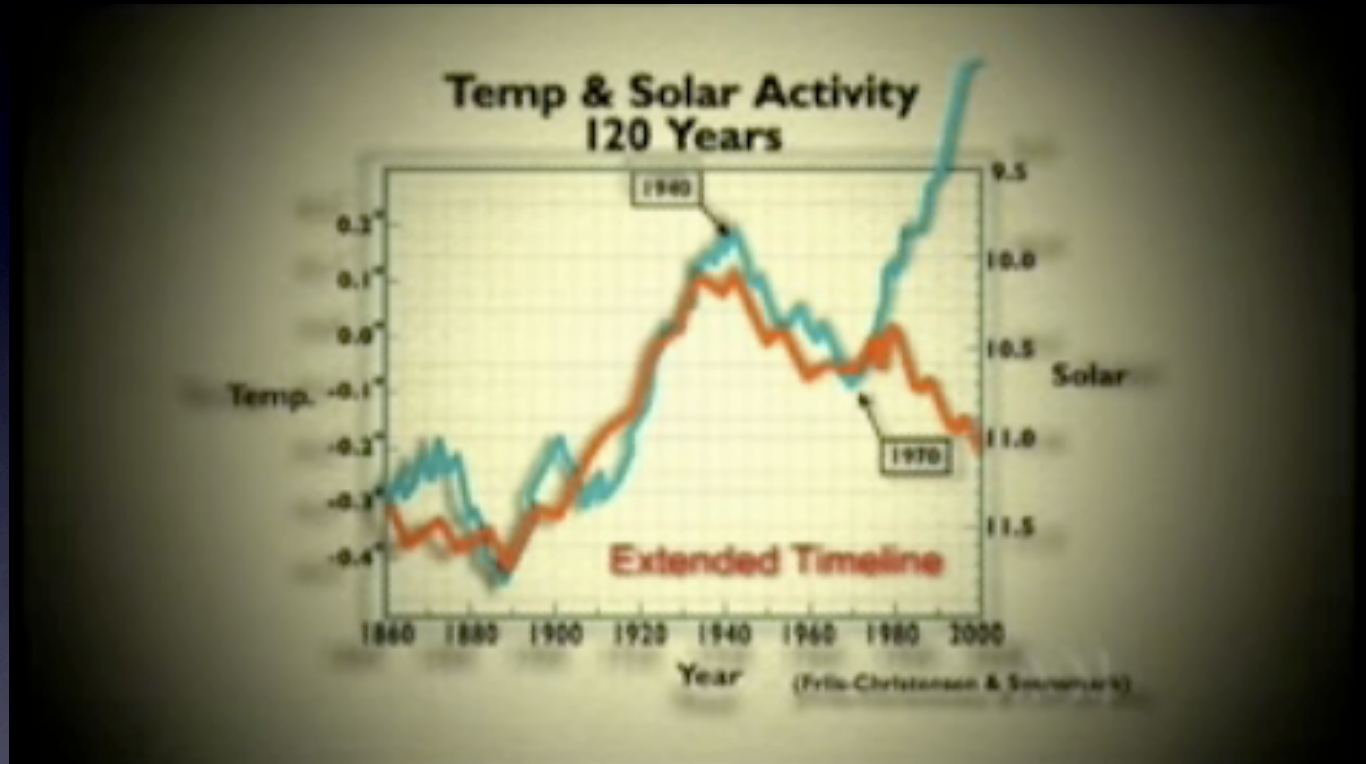
Medieval Warm Period



4th IPCC Report, 2007

Complete Data:

Solar Forcing



“Our latest studies have explicitly concluded that after 1985 temperature continued to increase while sunspot length flattened out and thus no longer correlated with surface temperature.”

- Professor Friis-Christensen, 2007

Anomalous Data Explained:

Cosmic Rays & Clouds

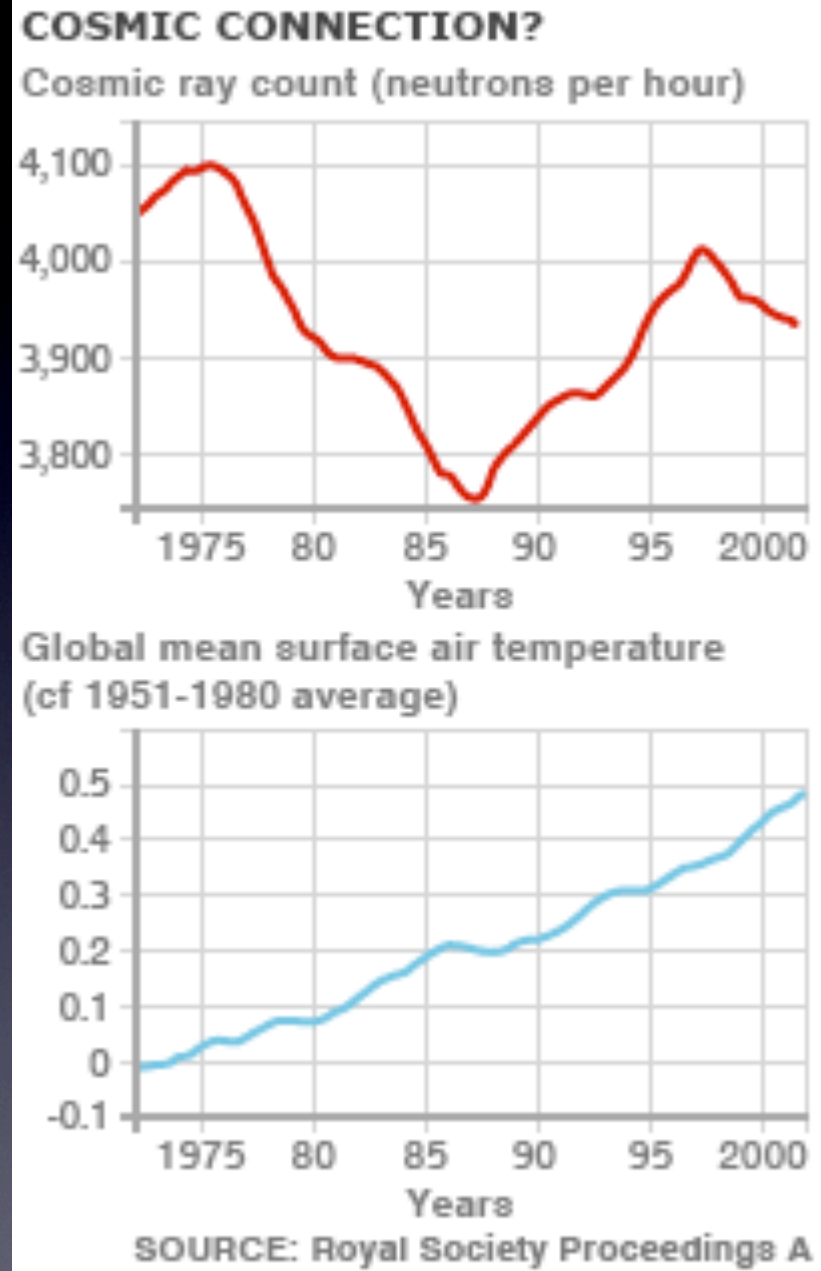
- “Cosmic Rays and Global Warming”, T. Sloan, University of Lancaster; A.W. Wolfendale, Durham University
- Cosmic ray ionization does not increase with altitude.
- Rate of ion production is too low generate the number of water droplets required to create clouds.
- Most clouds at the equator, not poles. (Most ions are at the poles - *Aurora Borealis*.)
- http://arxiv.org/PS_cache/arxiv/pdf/0706/0706.4294v1.pdf

Cosmic Rays & Clouds

- Mike Lockwood, Rutherford-Appleton Laboratory UK
- Claus Froehlich, World Radiation Center (Switzerland)

"This paper re-enforces the fact that the warming in the last 20 to 40 years can't have been caused by solar activity"

- Dr Piers Forster, IPCC/Leeds University



Criticism:

CO₂ Concentration

“CO₂ makes up a very small part of the earth’s atmosphere. ... tens of parts per million ... It’s 0.54%, an incredibly small portion. The human portion is even smaller.” - Global Warming Swindle

- CO₂ can force climate change at these concentrations. Human contributions change the equilibrium point.
- There’s even less ozone than CO₂ but it effects UV more than any of the other gases.

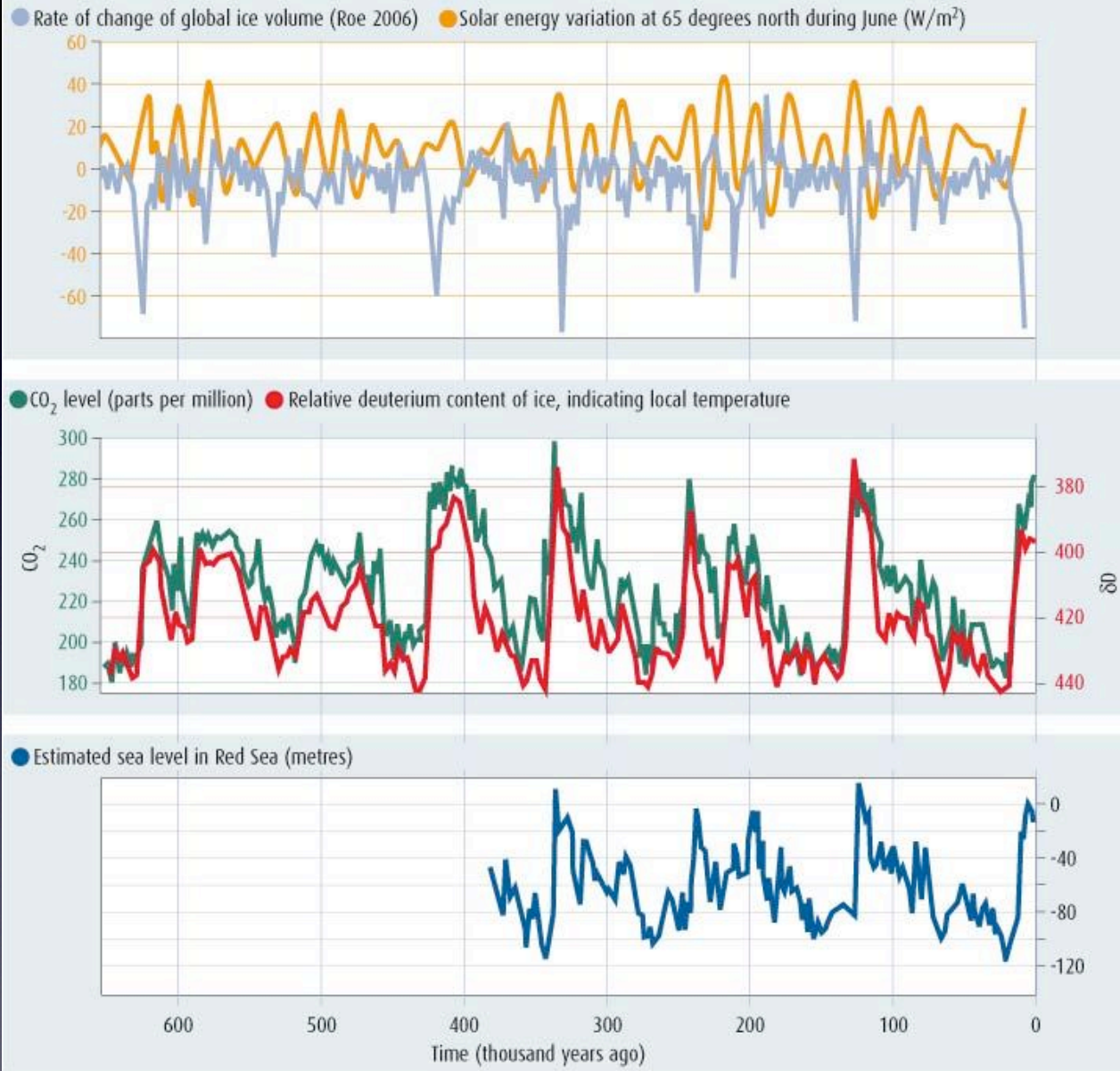
Anomalous Data Explained:

CO₂ as a Trailing Indicator

- Lags are hard to date. (Air circulates through snow as it is compressed, ice is older than the gas it encloses.)
- Warmings take 5000 years, lag is 800 years. CO₂ could have caused the last 5/6 of the warming, but could not have caused the first 1/6 of the warming.
- CO₂ is the primary but not *only* cause of global warming.
- Historically, CO₂ does not initiate the warmings, but acts as an amplifier once they are underway.
- We are initiating a warming trend with CO₂. That's never happened before, but it is happening now.

WHAT ENDED THE ICE AGES?

Orbital variations called Milankovitch cycles seem to have triggered the beginning and end of many ice ages, but they cannot explain the full extent of the temperature changes (top). Ice core records suggest CO₂ helped amplify the changes (middle)



SOURCE: ROE 2006, SPANH 2005, SIDDAALLI 2003

Anomalous Data Explained:

Ocean Cooling

- Sinking ocean probes did not sink as fast as thought.
- “Oceans are warming very much as predicted.”
- http://oceans.pmel.noaa.gov/Pdf/heat_2006.pdf

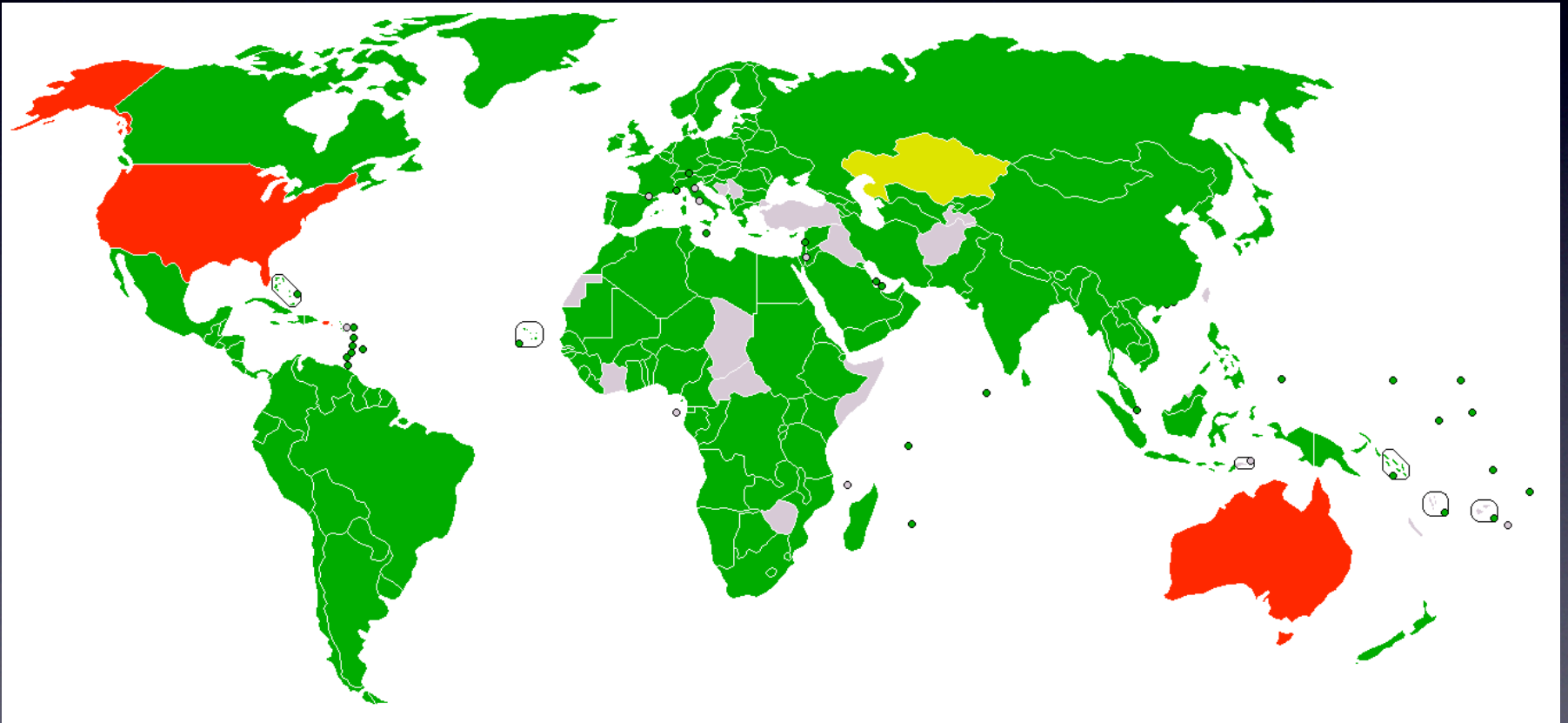
Anomalous Data Explained:

Ordovician Period

- “If CO₂ truly raises global temperatures, how could an ice age have occurred when a greenhouse effect much greater than today’s was in full swing?”
- Ohio State University scientists report that a long-ago ice age occurred 10 million years earlier than once thought. The new date clears up an inconsistency that has dogged climate change research for years.
- The answer: This particular ice age didn’t begin when CO₂ was at its peak -- it began 10 million years earlier, when CO₂ levels were at a low.
- “Our results are consistent with the notion that CO₂ concentrations drive climate.”
- <http://researchnews.osu.edu/archive/earlyice.htm>

Kyoto will punish developing nations

- Developing nations are exempt from the harshest provisions of Kyoto.
- They have signed it, we have not.



“Swindle” Retractions, Edits, and criticisms:

- 4 different edits with different graphs as the piece has been challenged.
- “They misrepresented me. My views were misrepresented by the context it was presented in. I am the one who was swindled. I would have never agreed to take part in the program if I had know it would argue manmade global warming was not a serious threat.” -Carl Wunsch