

Human
Caused Global
Warming

Human Caused Global Warming

The Biggest
Deception in History



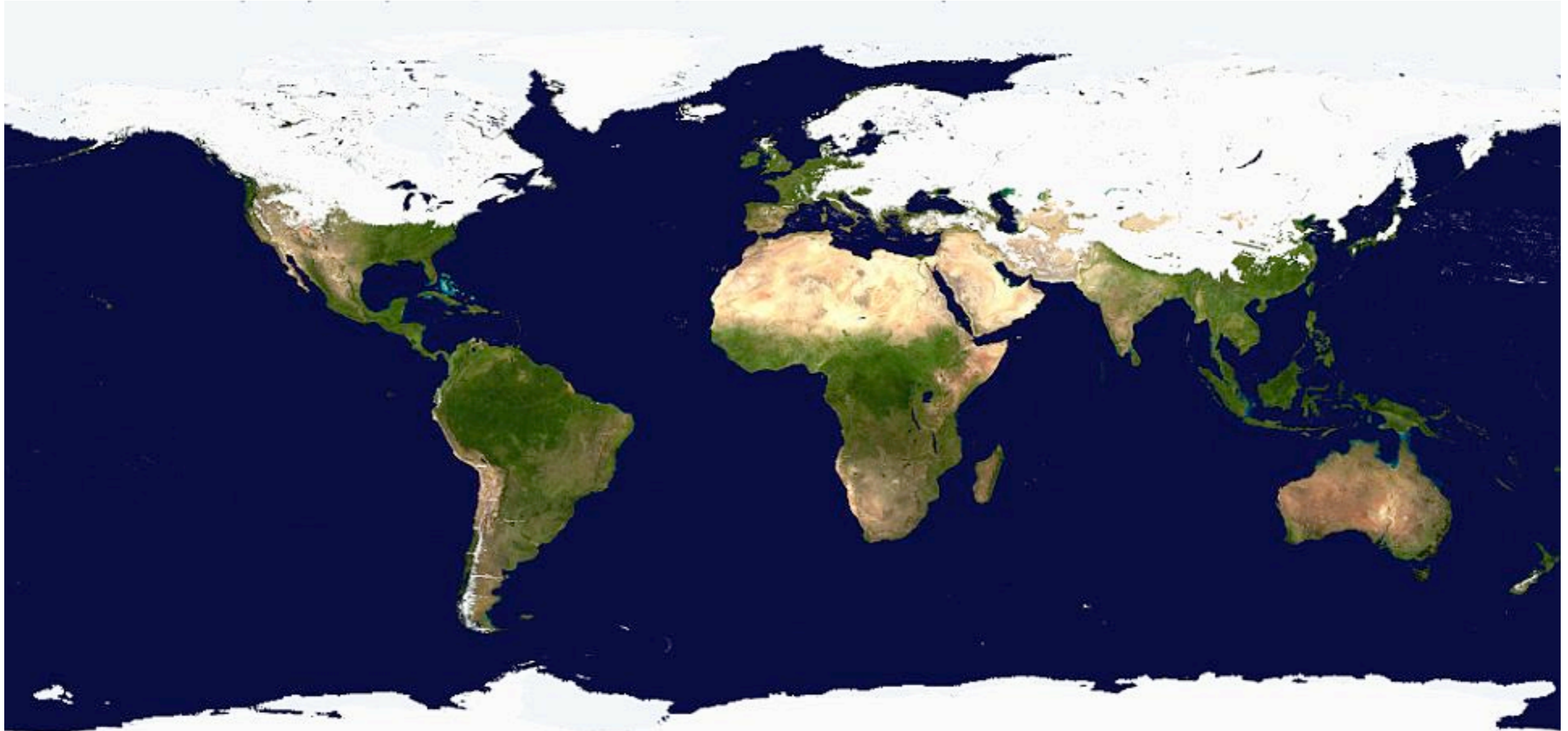
AgS-fetm



Facts no longer matter.

We simply decide how we want to see the world and then go out and find experts and evidence to back our beliefs.

True Enough: Learning to Live in a Post-Fact Society - Farhad Manjoo



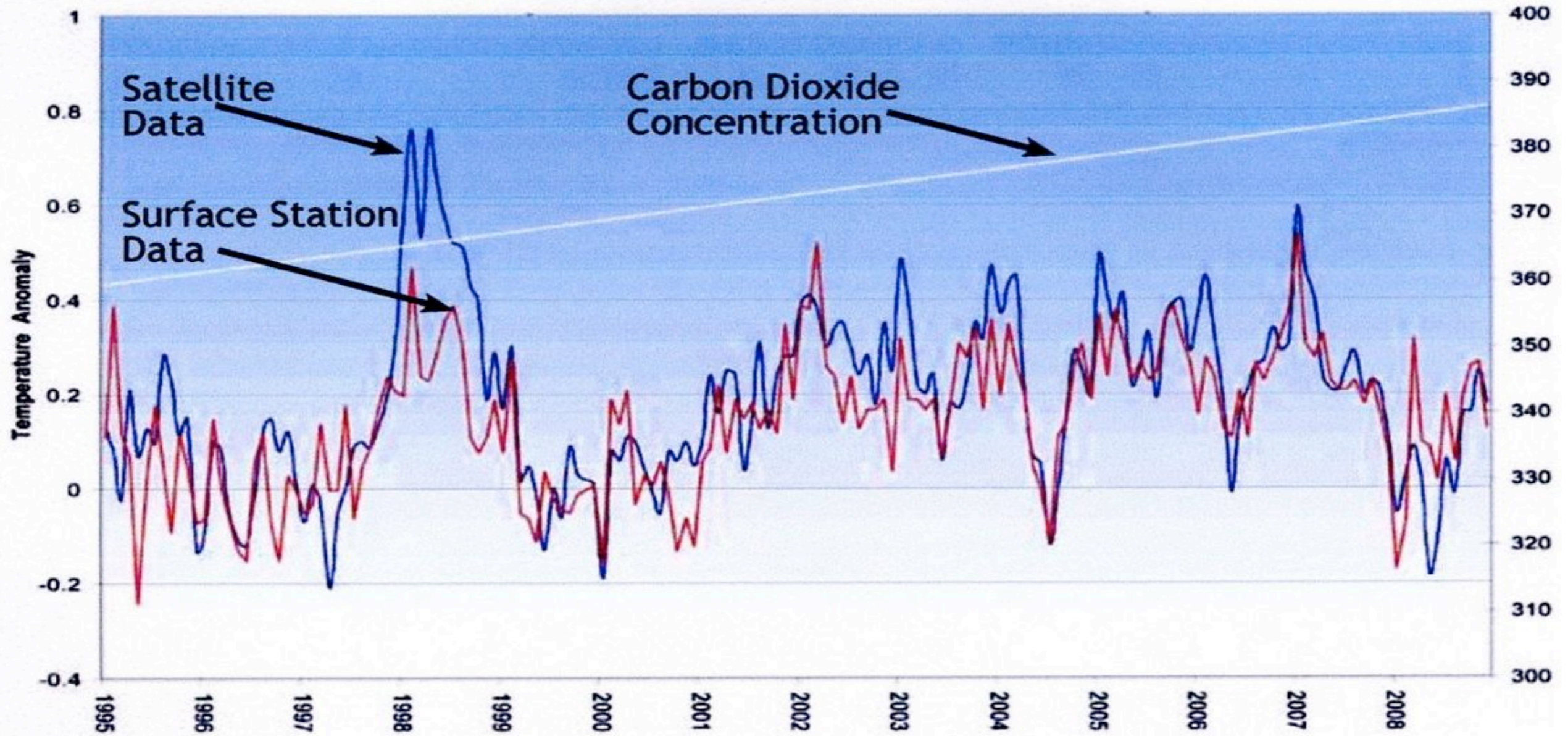
© NOAA

Composite satellite coverage showing snow cover on February 4, 2011

Climate Change

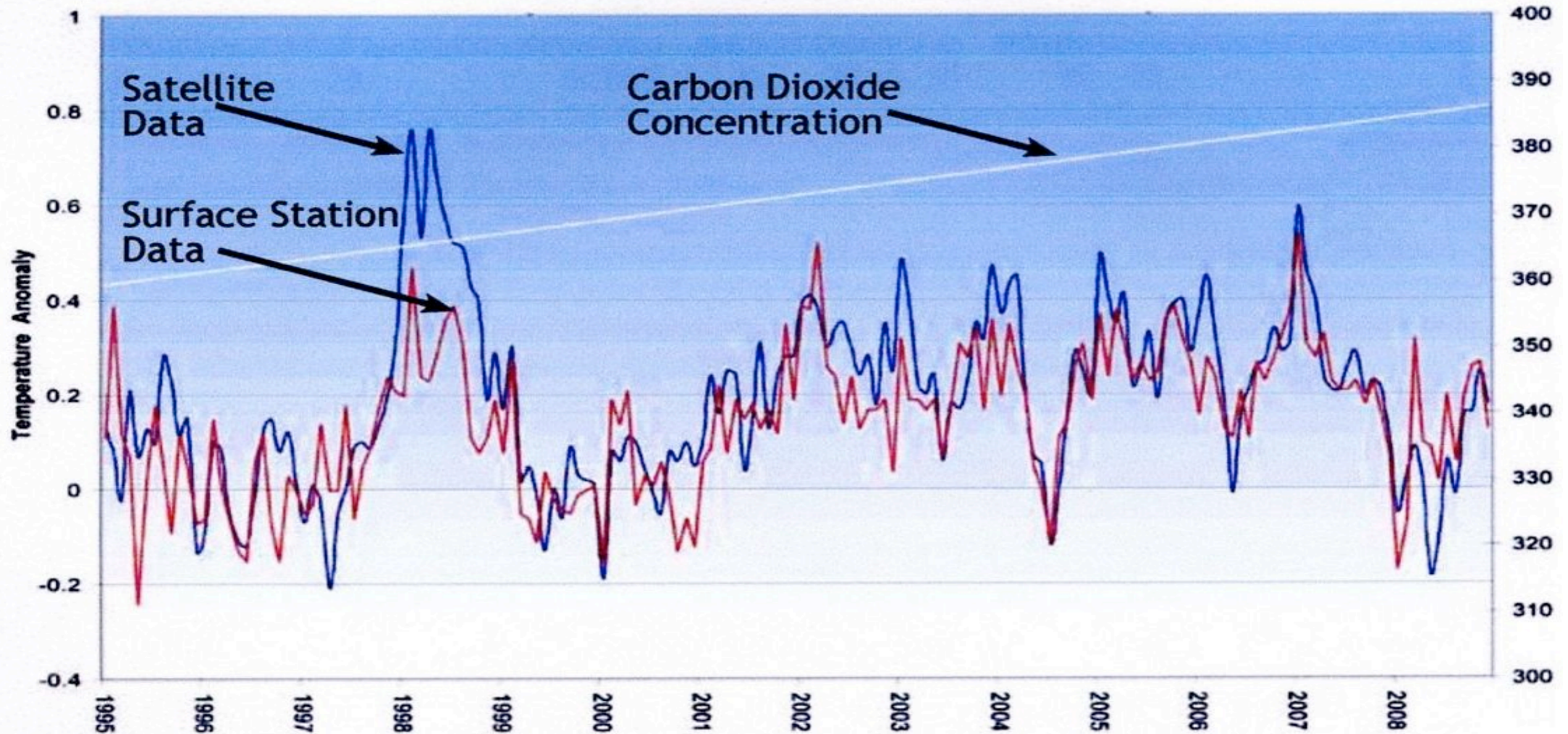
Climate Change

- They were talking about global warming, then it was climate change. Now it is climate disruption.
Why?



Global Temperature and CO2 record 1995 - 2009

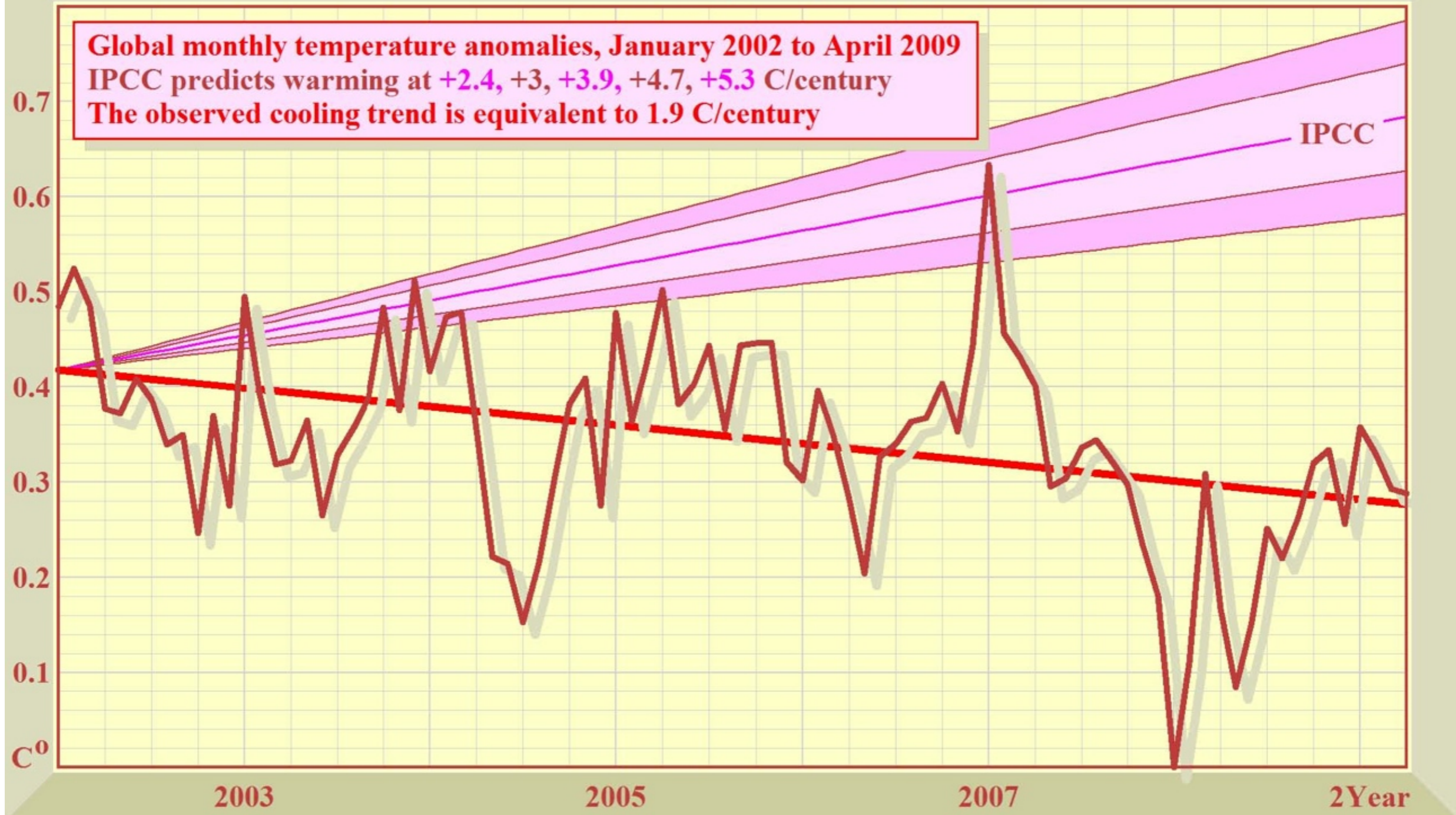
Source; Science and Public Policy Centre

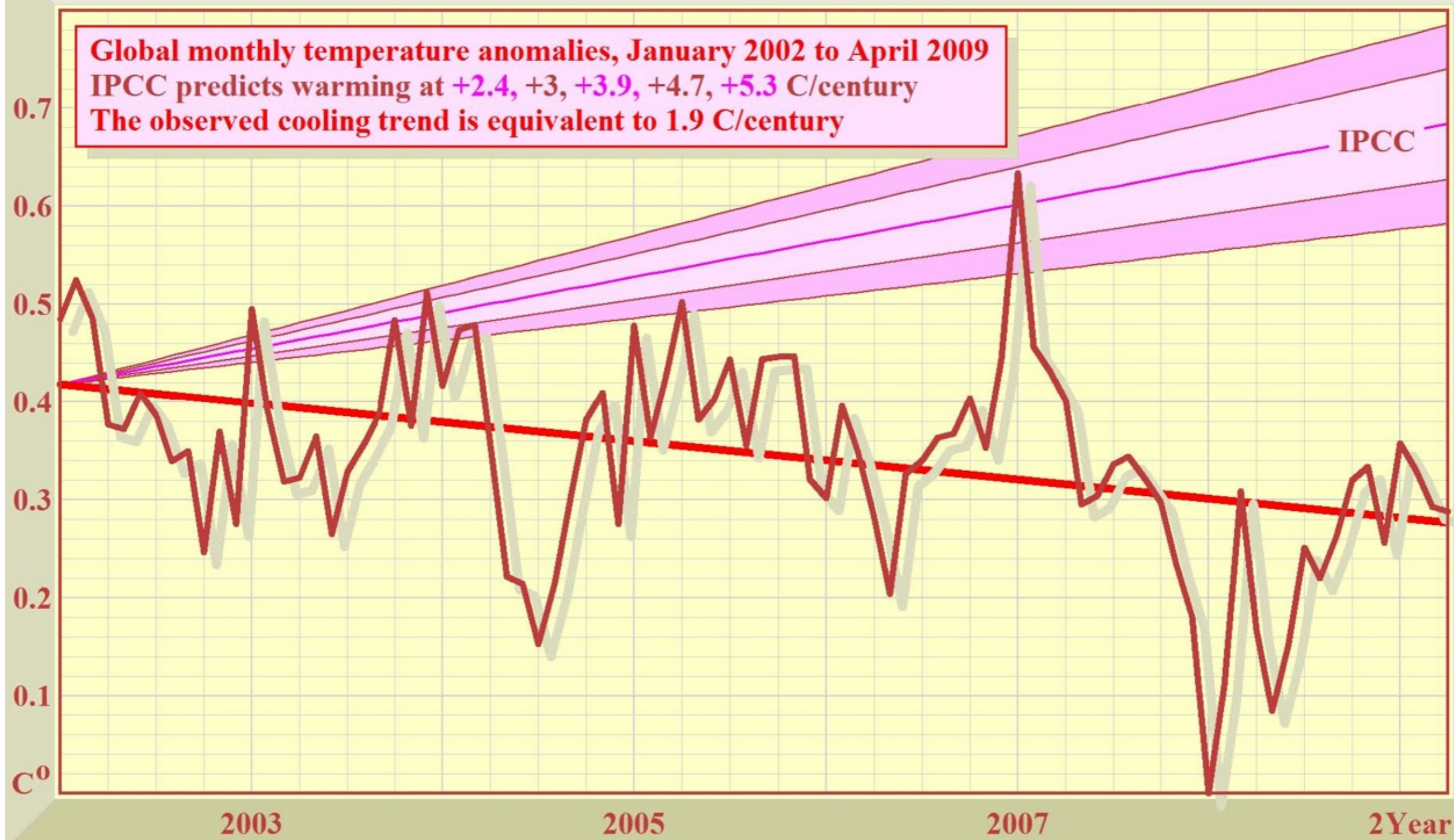


Global Temperature and CO2 record 1995 - 2009

Source; Science and Public Policy Centre

Kevin Trenberth; IPCC member, leaked email Wed, 14 Oct 2009, *“The fact is that we can’t account for the lack of warming at the moment and it is a travesty that we can’t.”*



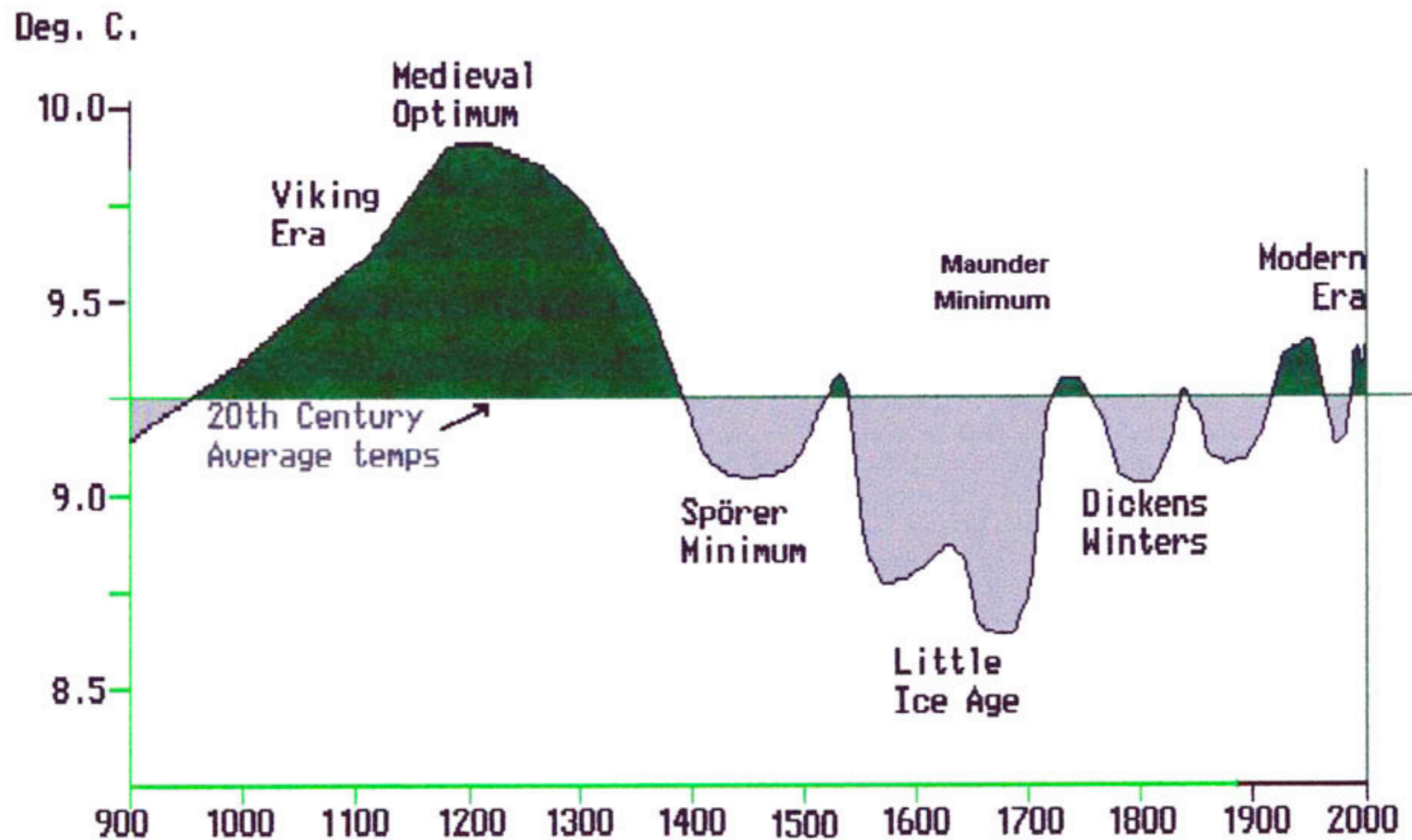


IPCC “Projections” Compared to actual trend

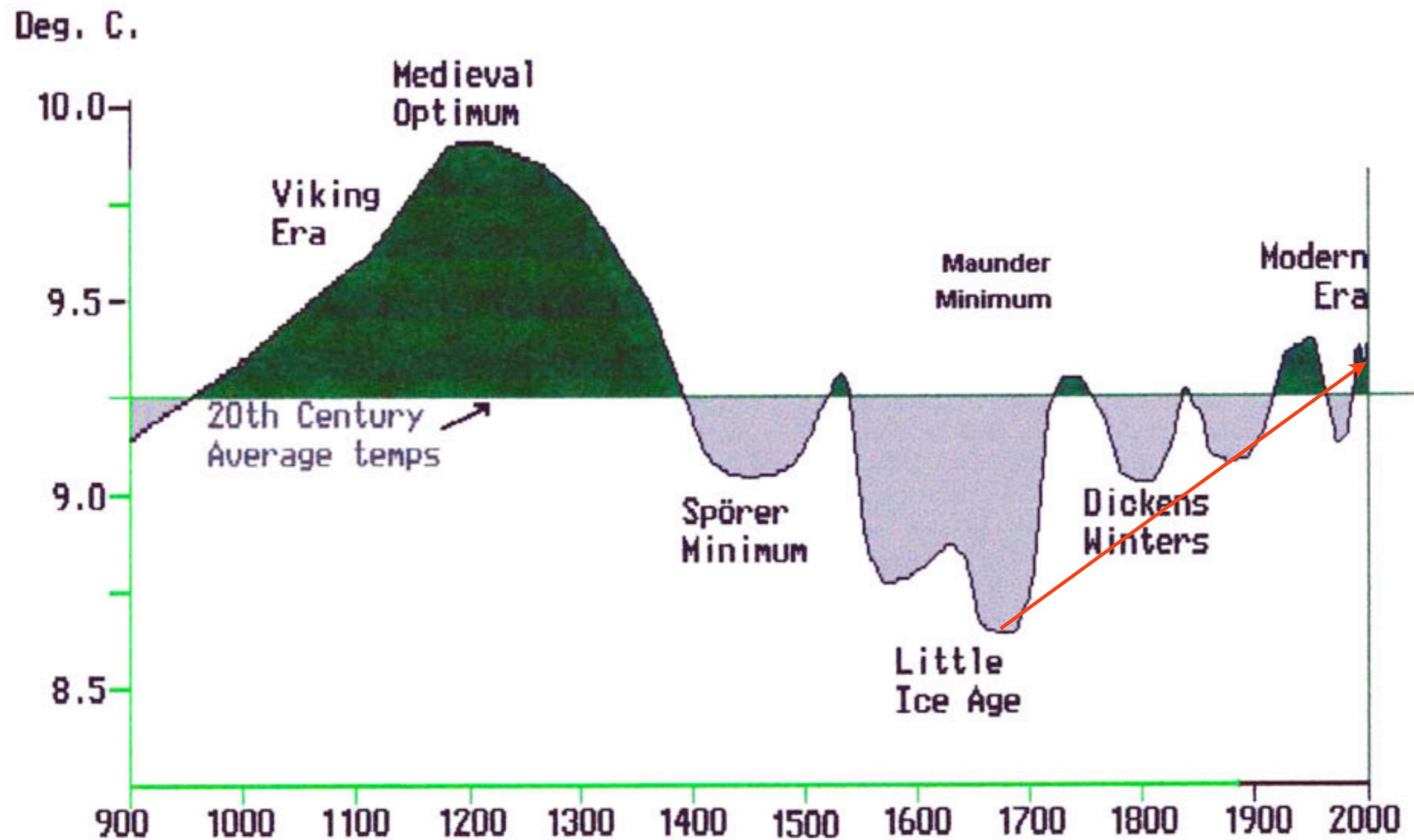


L'Anse Aux Meadows

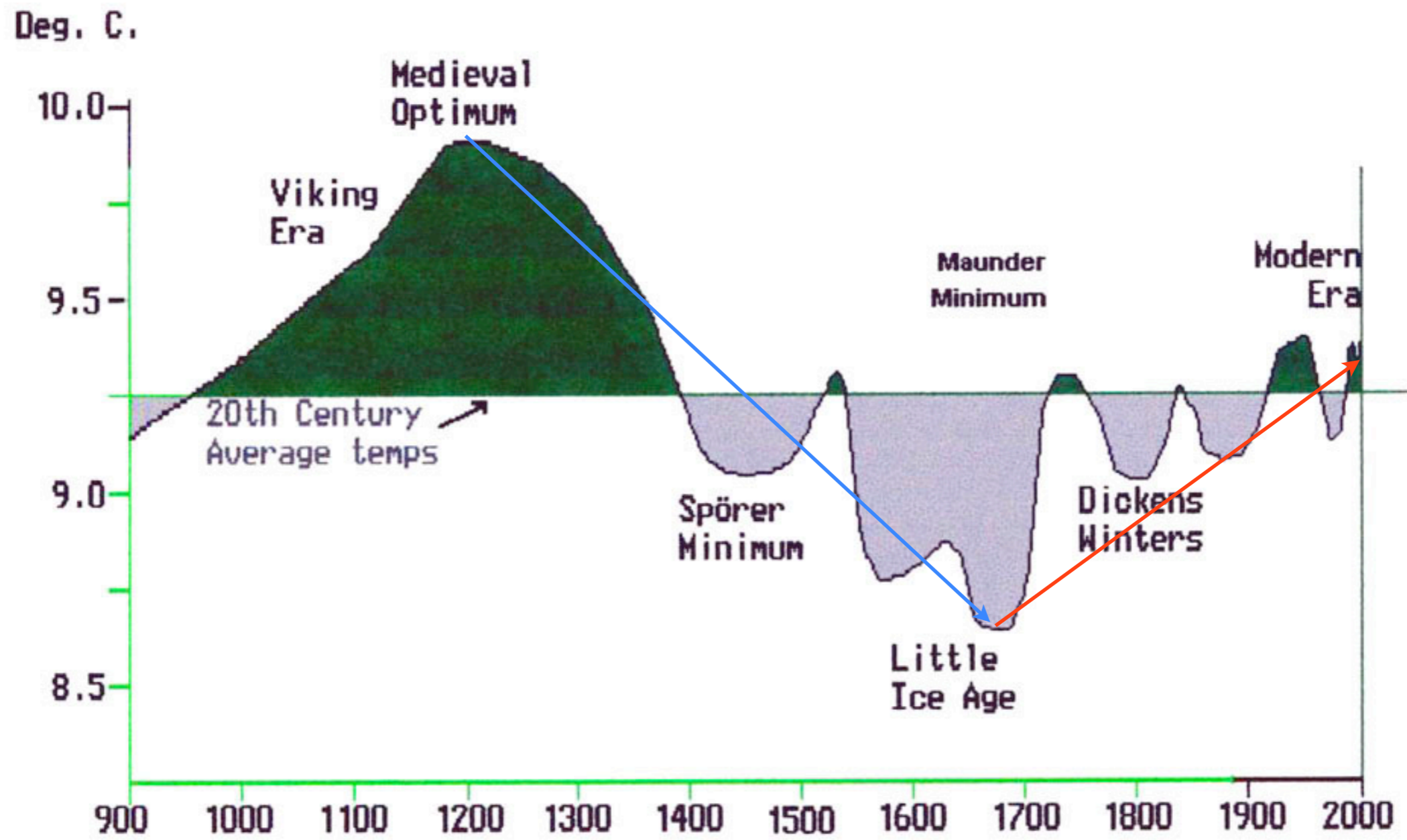




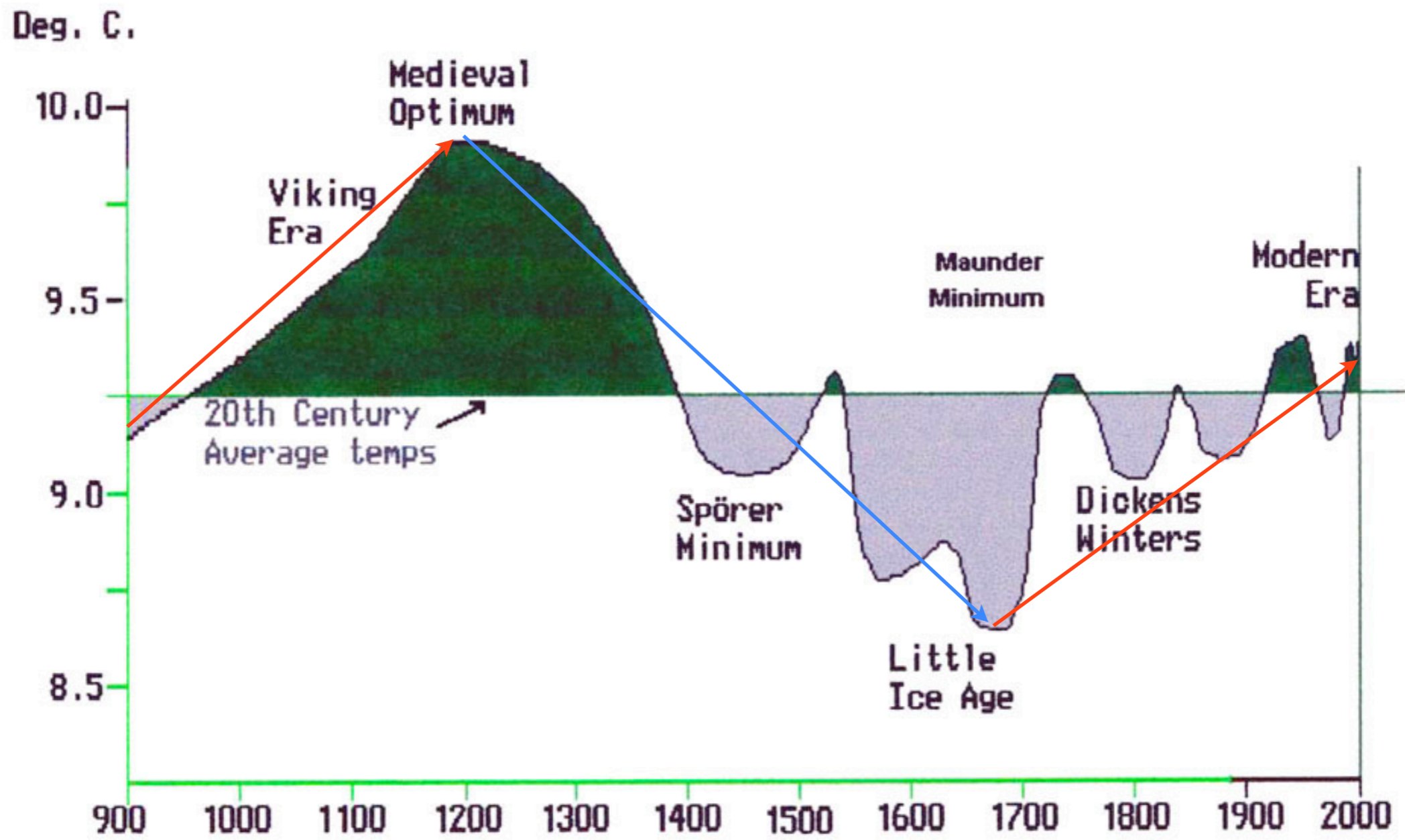
THE LAST THOUSAND YEARS IN EUROPE. Climatic changes.



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“What to do about the MWP”

- D. Deming, *Science* 1995

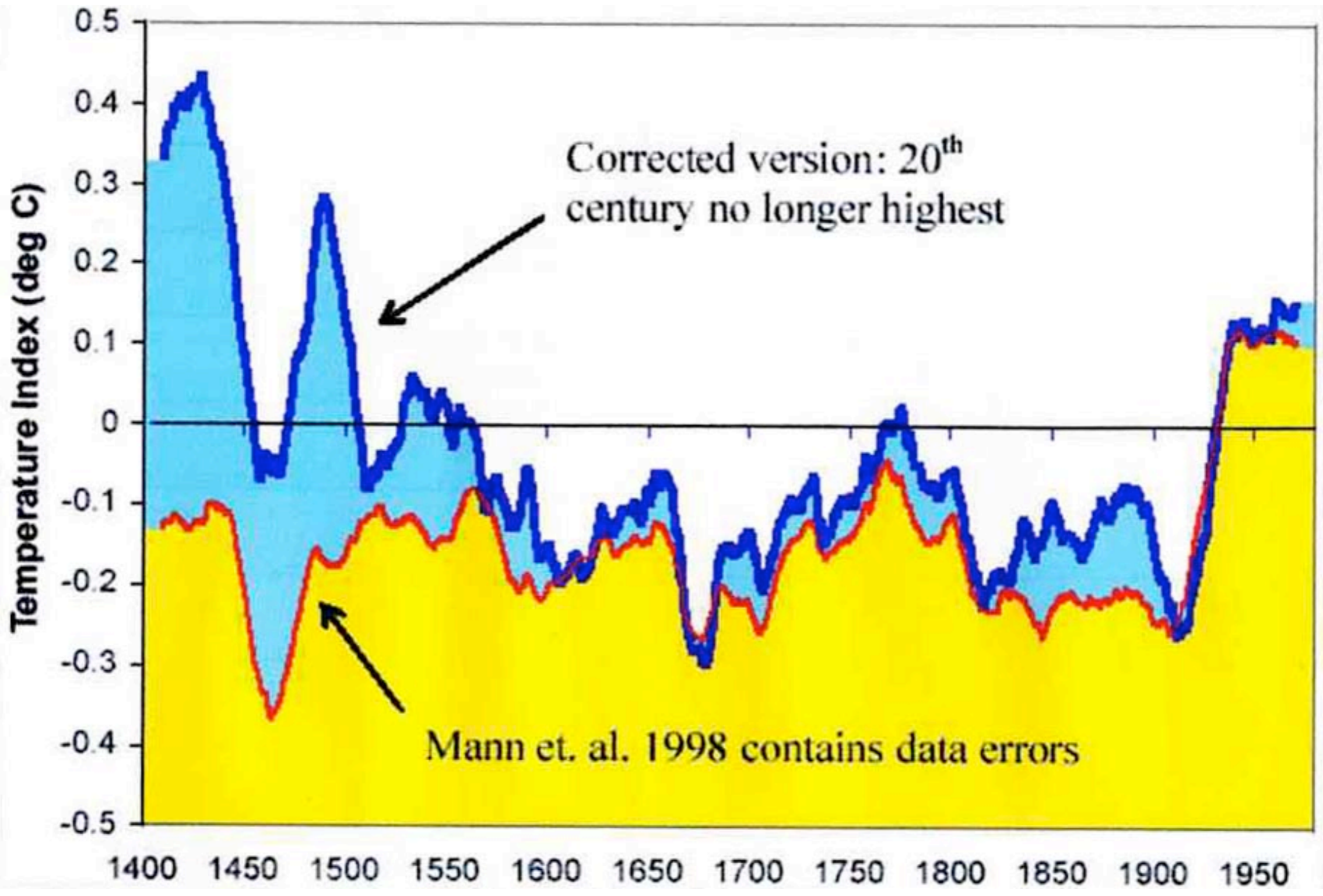
“With the publication of the article in *Science* [in 1995], I gained significant credibility in the community of scientists working on climate change. They thought I was one of them, someone who would pervert science in the service of social and political causes. So one of them let his guard down. A major person working in the area of climate change and global warming sent me an astonishing email that said “

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We have to get rid of the Medieval Warm Period.”



Scientific Method

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Propose an hypothesis based on set of assumptions; then test the assumptions

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Anthropogenic Global Warming (AGW) Hypothesis; Assumptions

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- 2. CO₂ will increase because of human activity**

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Anthropogenic Global Warming (AGW) Hypothesis; Assumptions

- 1. CO₂ is a greenhouse gas delays heat escape to space**
- 2. CO₂ will increase because of human activity**
- 3. CO₂ causes temperature increase**

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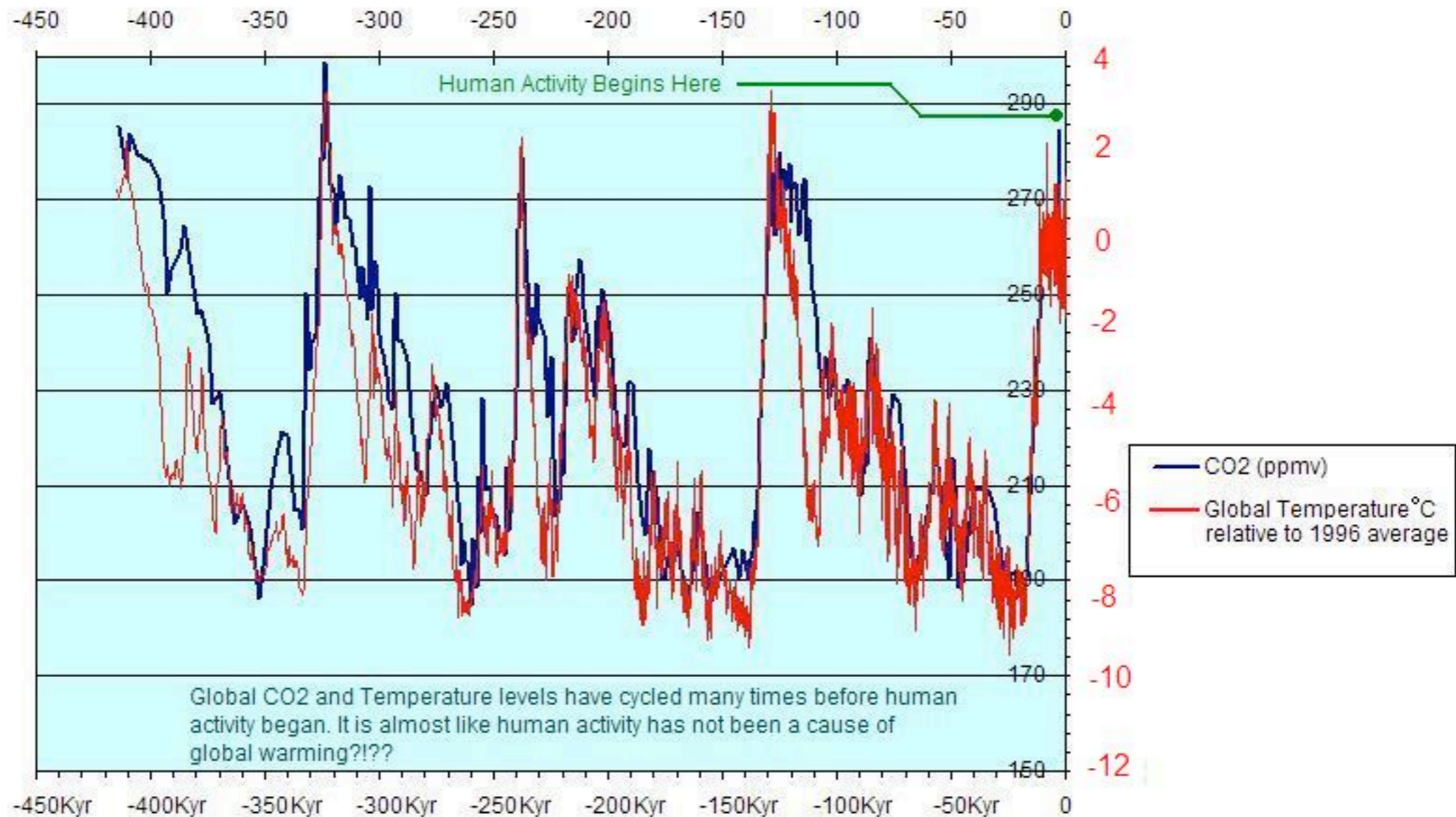
Karl Popper: “One can sum up all this by saying that the criterion of the scientific status of a theory is its falsifiability, or refutability, or testability.”

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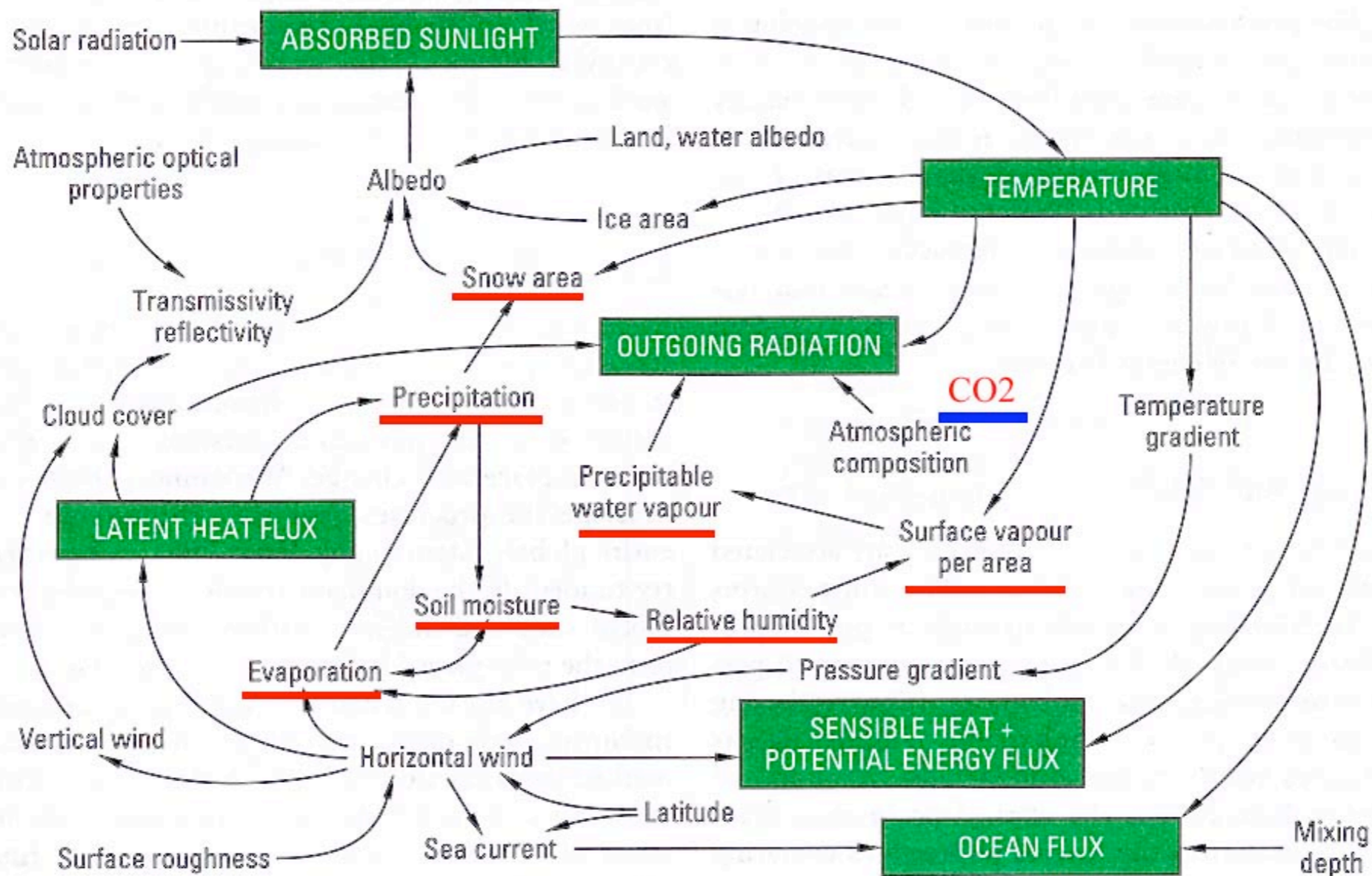
Scientists who tried to perform their skeptical role were attacked as skeptics. The Scientific Method was thwarted.

Global Temperature and CO2



http://www.ncdc.noaa.gov/paleo/icecore/antarctica/vostok/vostok_isotope.html — Used for Temperature Data
<ftp://ftp.ncdc.noaa.gov/pub/data/paleo/icecore/antarctica/vostok/co2nat.txt> — Used for CO2 data

Every record of any duration anywhere in history **temperature increases before CO2**



Simple Systems Diagram of Climate Complexity

Source: After Briggs Smithson and Ball, 2001

Motive?



- ◆ Isn't the only hope for the planet that the industrialized nations collapse? Isn't it our responsibility to bring that about?

- Maurice Strong; Head of the 1992 Earth Summit in Rio and Executive Officer for Reform in the Office of the Secretary General of the UN.
- Quote from Junkscience.com

Note that the *United Nations Framework Convention on Climate Change (UNFCCC)*, in its Article 1, defines climate change as: ‘a change of climate which is attributed directly or indirectly to human activity that alters the composition of the global atmosphere and which is in addition to natural climate variability observed over comparable time periods’. The UNFCCC thus makes a distinction between climate change attributable to human activities altering the atmospheric composition, and climate variability attributable to natural causes.

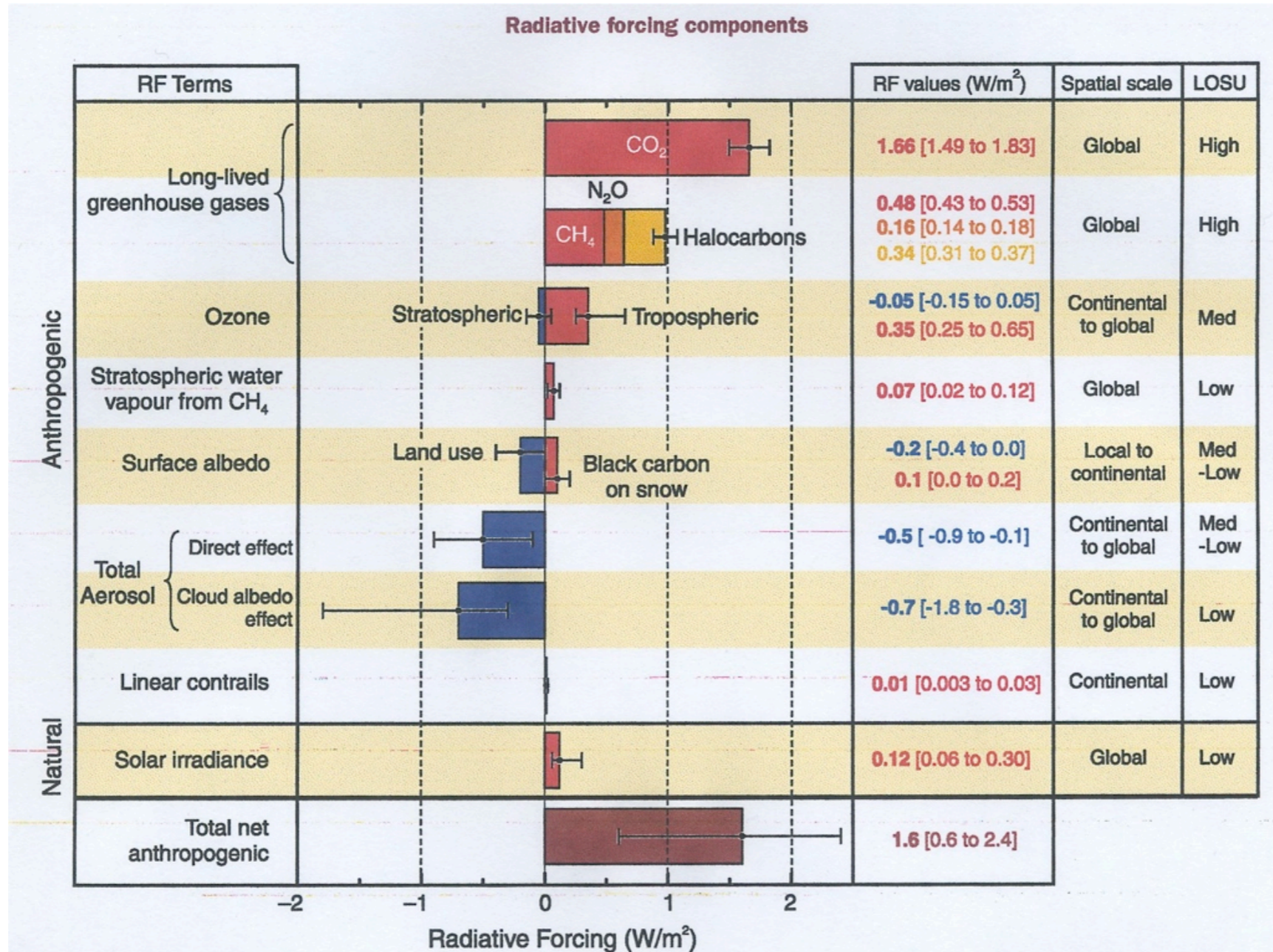
Source: http://www.ipcc.ch/pdf/assessment-report/ar4/syr/ar4_syr_appendix.pdf

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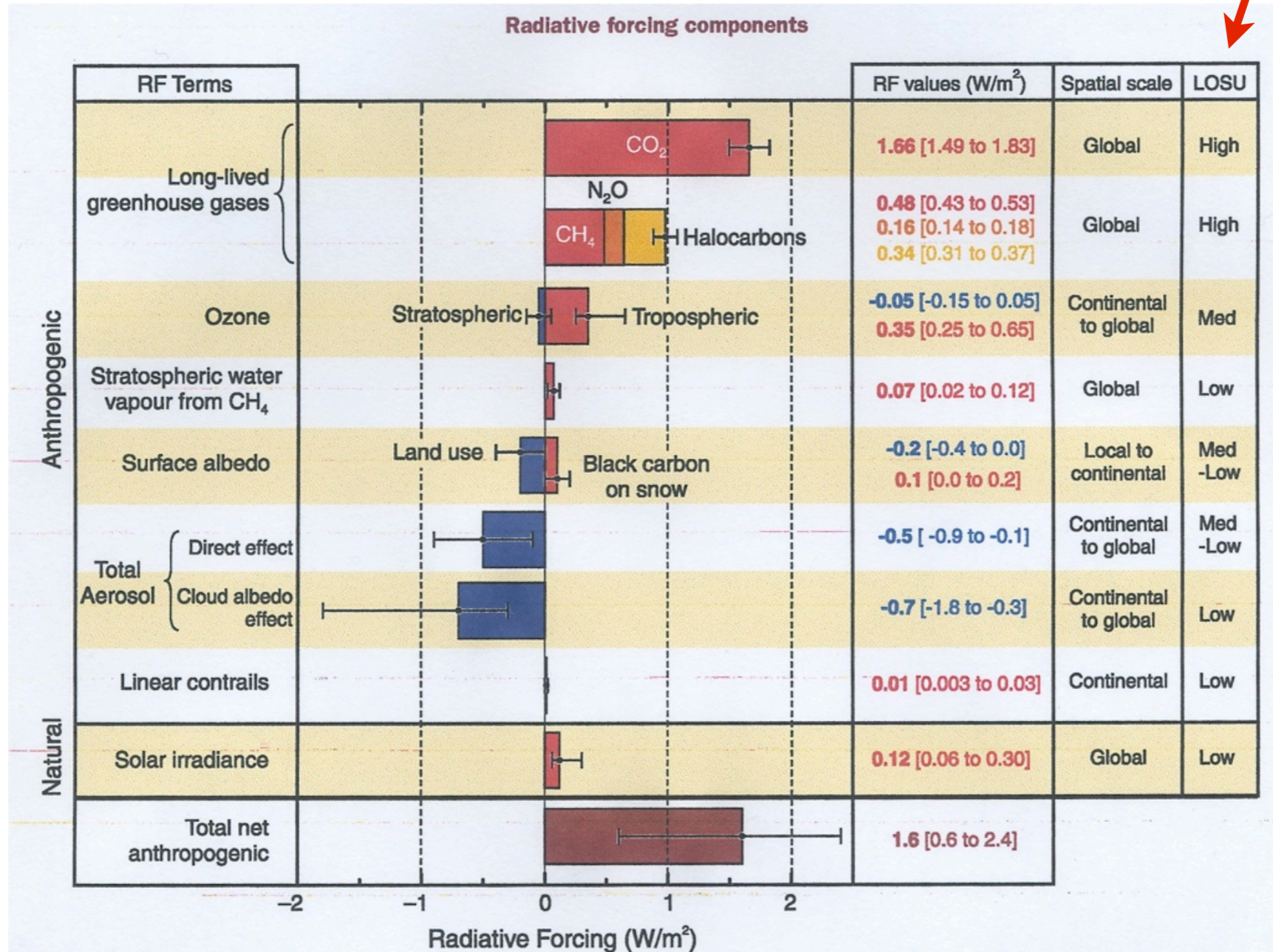
But if you don't know how much it varies naturally you cannot determine the human effect.

IPCC: Climate Forcings; 2001



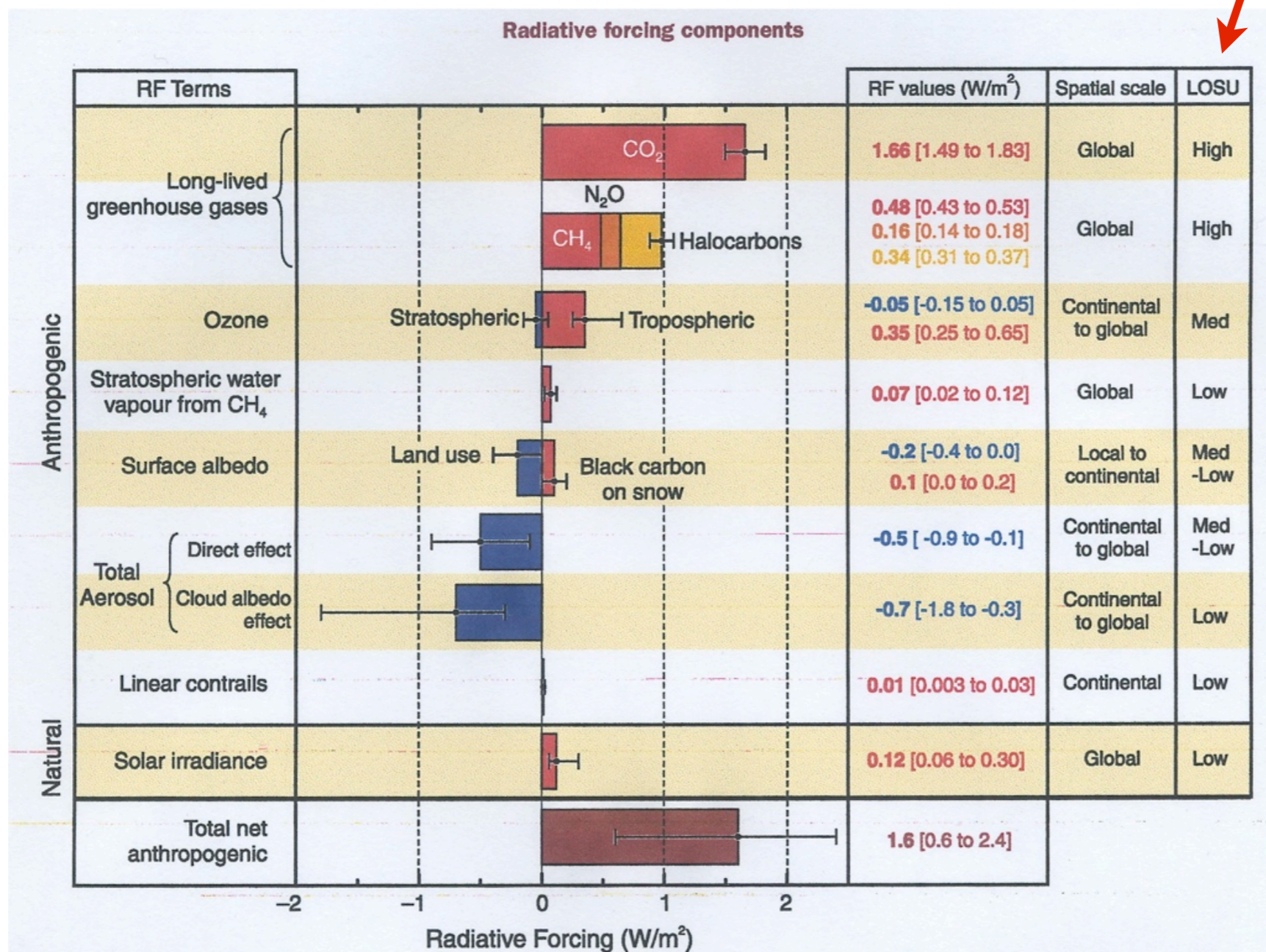
Source; IPCC 2001 Working Group I Report: The Physical Science

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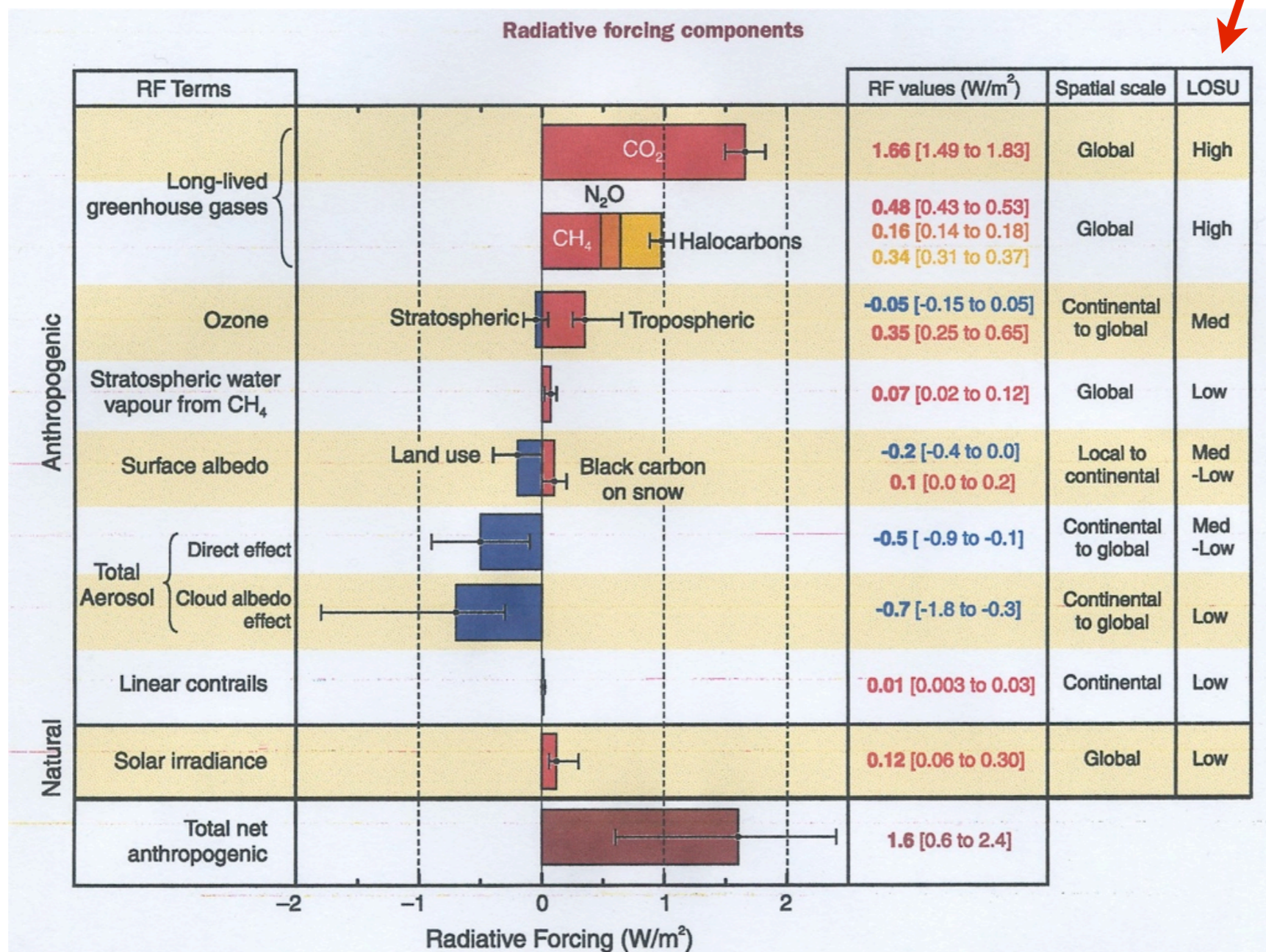
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Level of Scientific Understanding

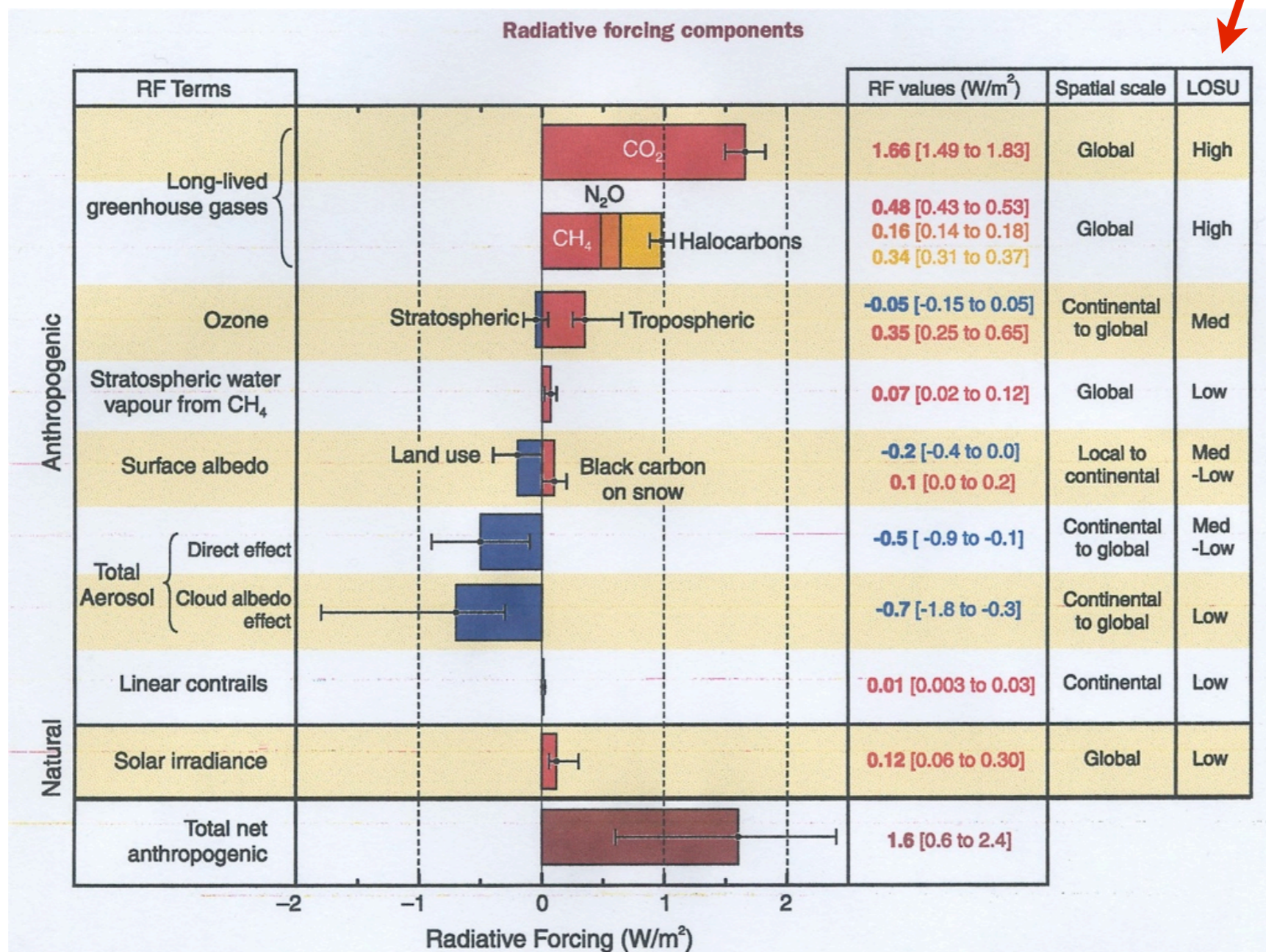
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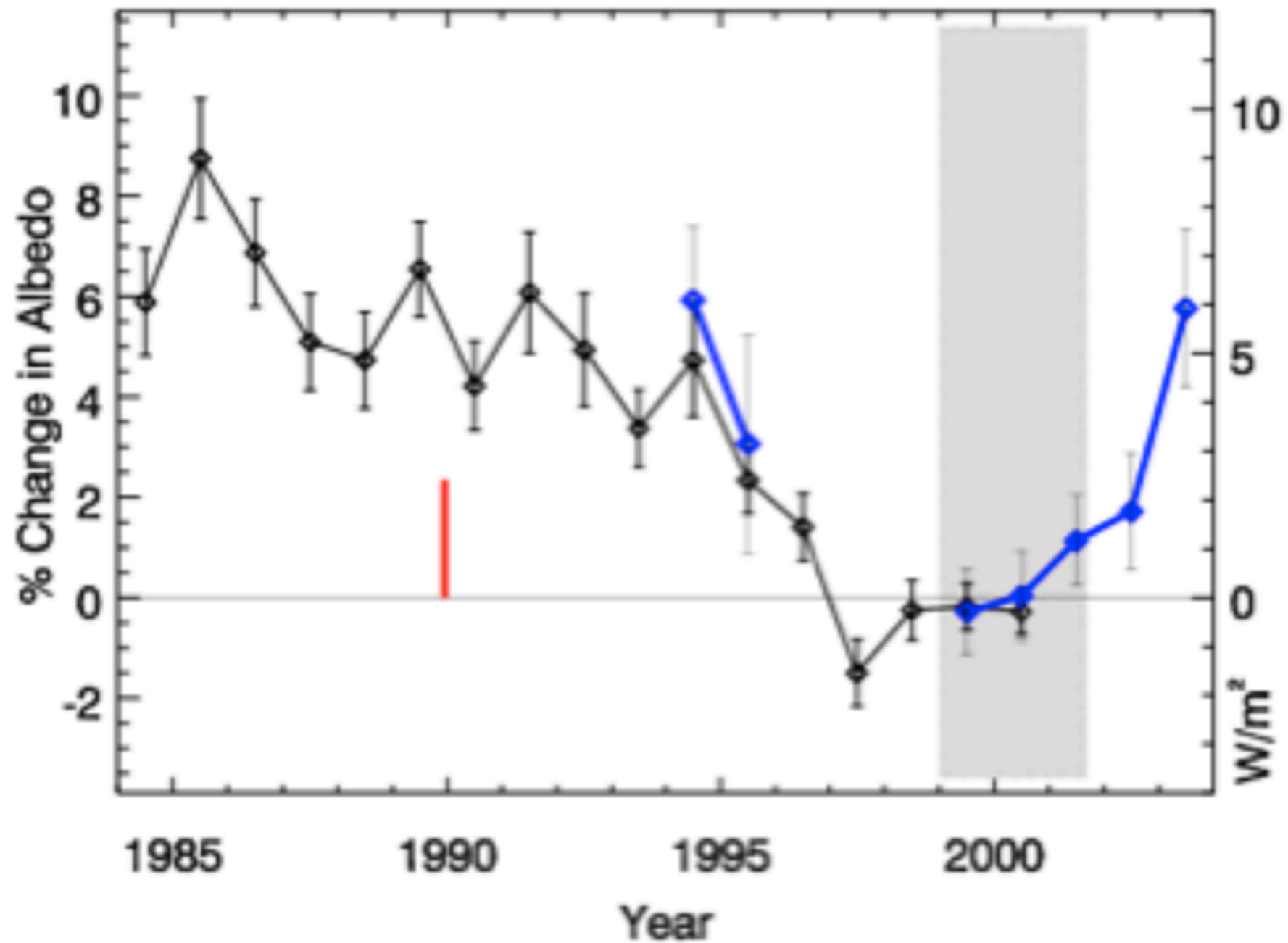
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IPCC: Climate Forcings; 2001



1.5 Watts per square meter

Source; IPCC 2001 Working Group I Report: The Physical Science



Global Albedo change 1984 – 2004. Error bars due to seasonal variability of 15-20%.

The red line is the IPCC estimated GHG forcing for 100 years.

Source: <http://www.skepticalscience.com/earth-albedo-effect.htm>

Anthropogenic (man-made) Contribution to the "Greenhouse Effect," expressed as % of Total (water vapor INCLUDED)

Based on concentrations (ppb) adjusted for heat retention characteristics	% of All Greenhouse Gases	% Natural	% Man-made
Water vapor	95.000%	94.999%	0.001%
Carbon Dioxide (CO ₂)	3.618%	3.502%	0.117%
Methane (CH ₄)	0.360%	0.294%	0.066%
Nitrous Oxide (N ₂ O)	0.950%	0.903%	0.047%
Misc. gases (CFC's, etc.)	0.072%	0.025%	0.047%
Total	100.00%	99.72	0.28%

Source: Dr. F.Singer, Science and Environmental Policy Project

Gt C p.a.

EMISSIONS:

Humans and Animals	45 to 52
Oceans' outgassing (tropical areas)	90 to 100
Volcanic and other ground sources	0.5 to 2
Ground bacteria, rotting and decay	50 to 60*
Forest cutting, forest fires	1 to 3
Anthropogenic emissions (2010)	9.5
TOTAL	196 to 226.5

* other published values: 26 Gt, 86-110 Gt

UPTAKE:

Vegetation on land	55 to 62
Oceans' uptake	87 to 95*
Algae, phytoplankton, seaweed	48 to 57
Weathering (Silica minerals)	3 to 6
TOTAL	193 to 220

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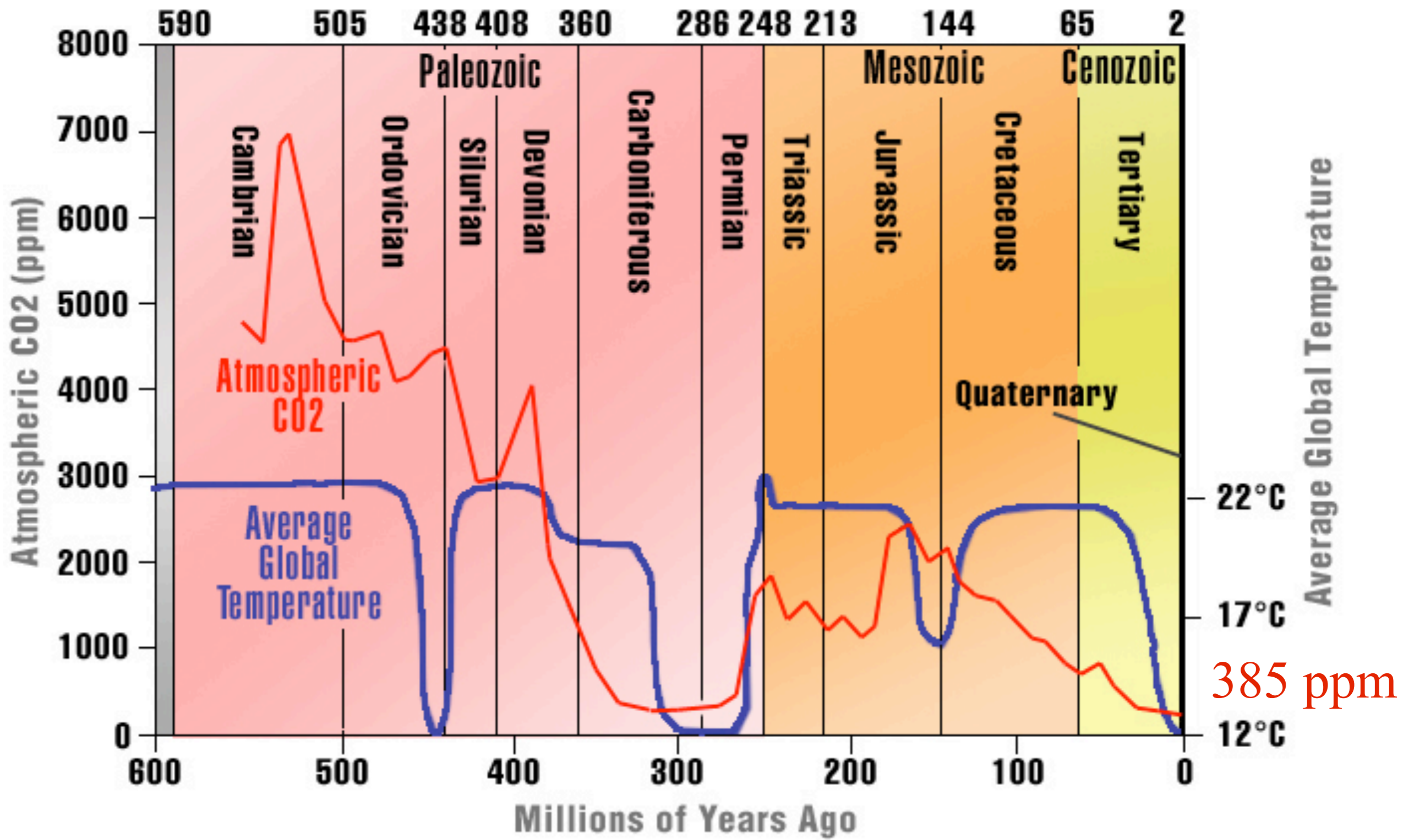
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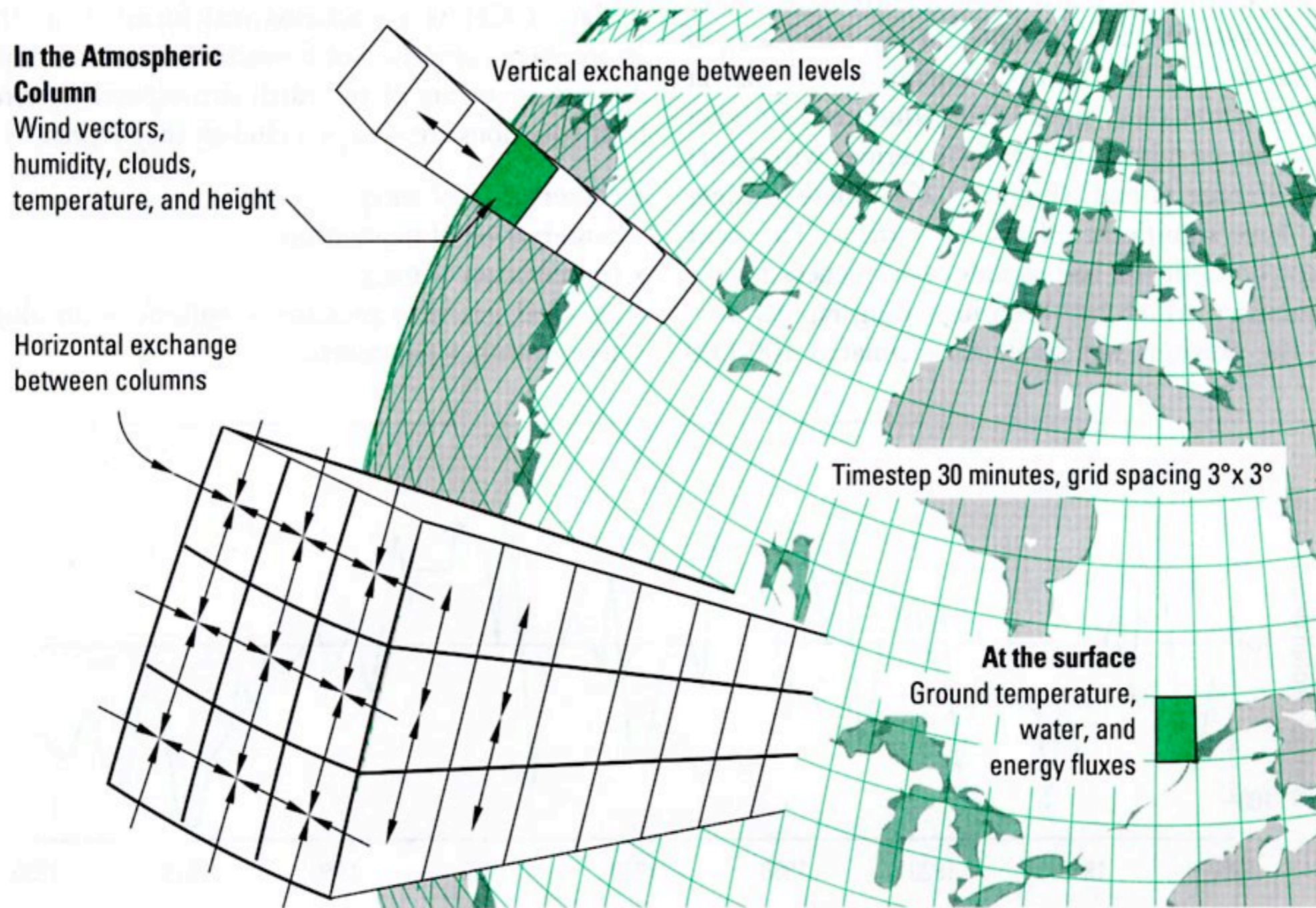
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Source: Temperature after C. R. Scotese; CO2 after R.A. Bernier, 2001



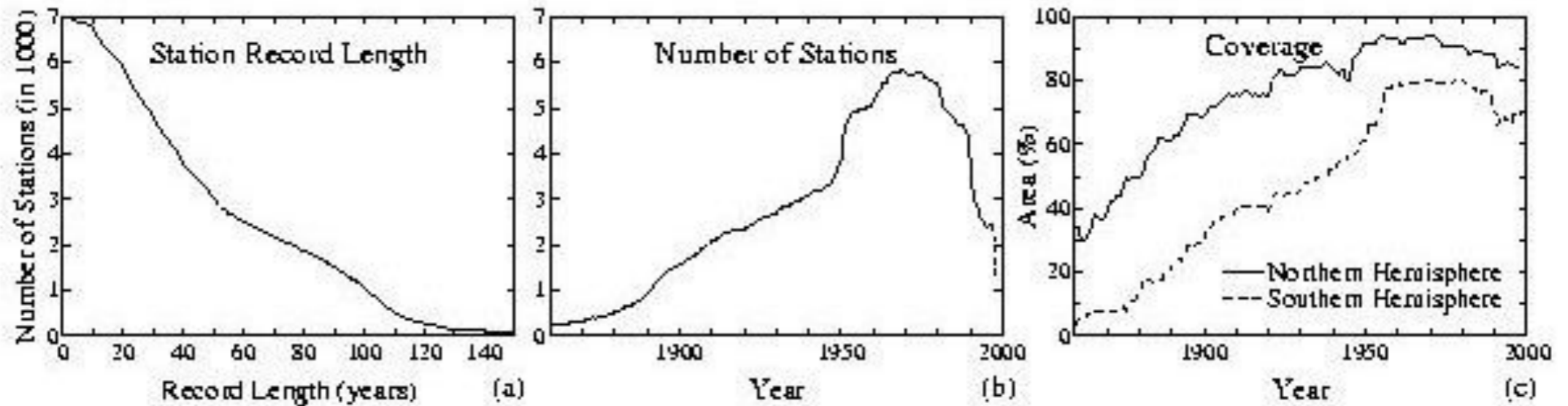
Source; Smithson, Griggs and Ball; Fundamentals of Physical Geography

As Tim Palmer leading climate modeler at the European Centre for Medium Range Weather Forecasts said; *“I don’t want to undermine the IPCC, but the forecasts, especially for regional climate change, are immensely uncertain.”* Yet the regional models are far more accurate than the IPCC General Circulation Models (GCM).

Source: <http://www.globalresearch.ca/index.php?context=va&aid=16330>

The figures below indicate

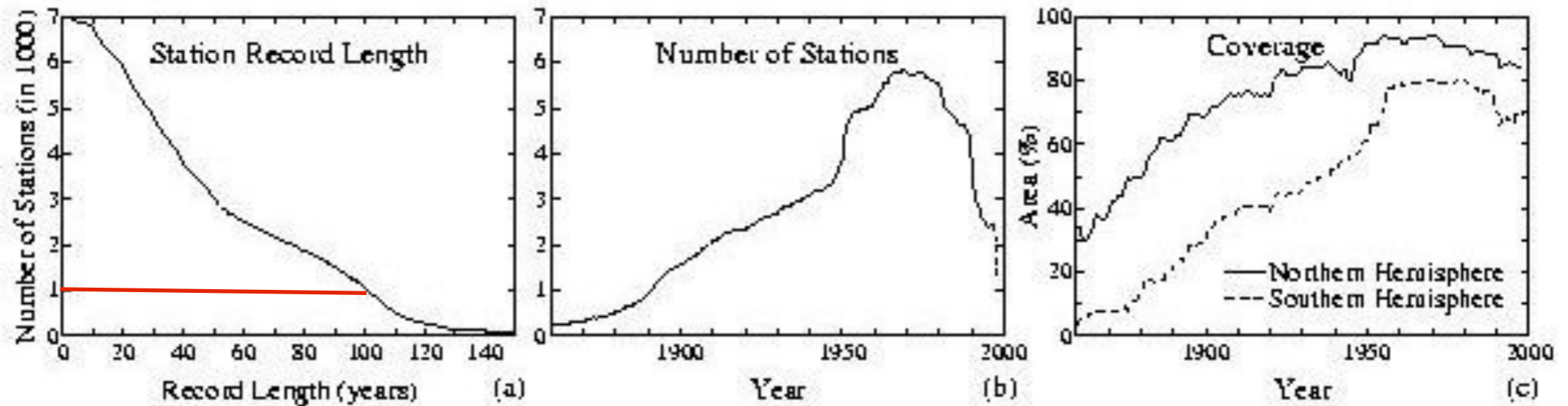
- the number of stations with record length at least N years as a function of N ,
- the number of reporting stations as a function of time,
- the percent of hemispheric area located within 1200km of a reporting station.



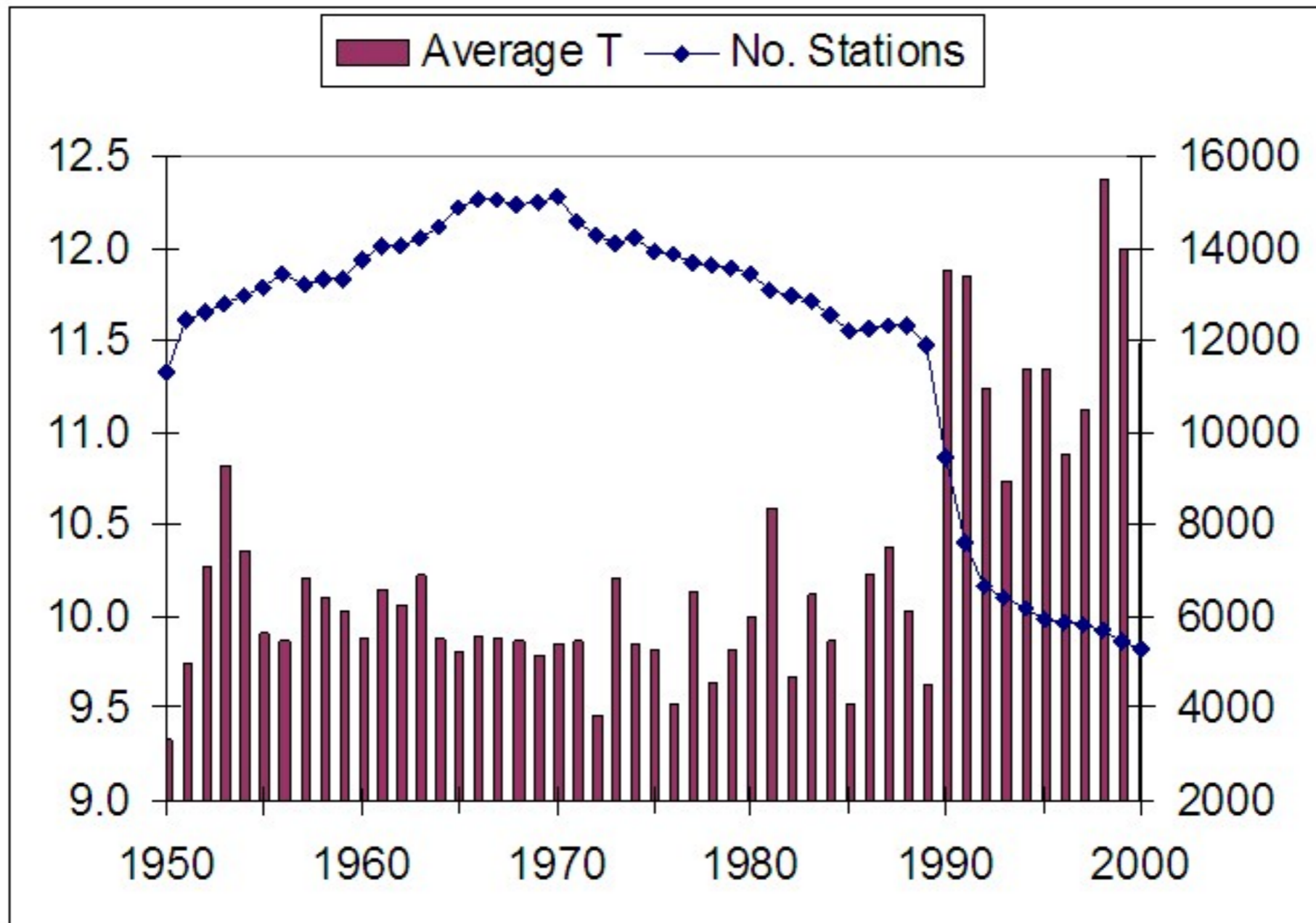
Number of Weather Stations NASA GISS

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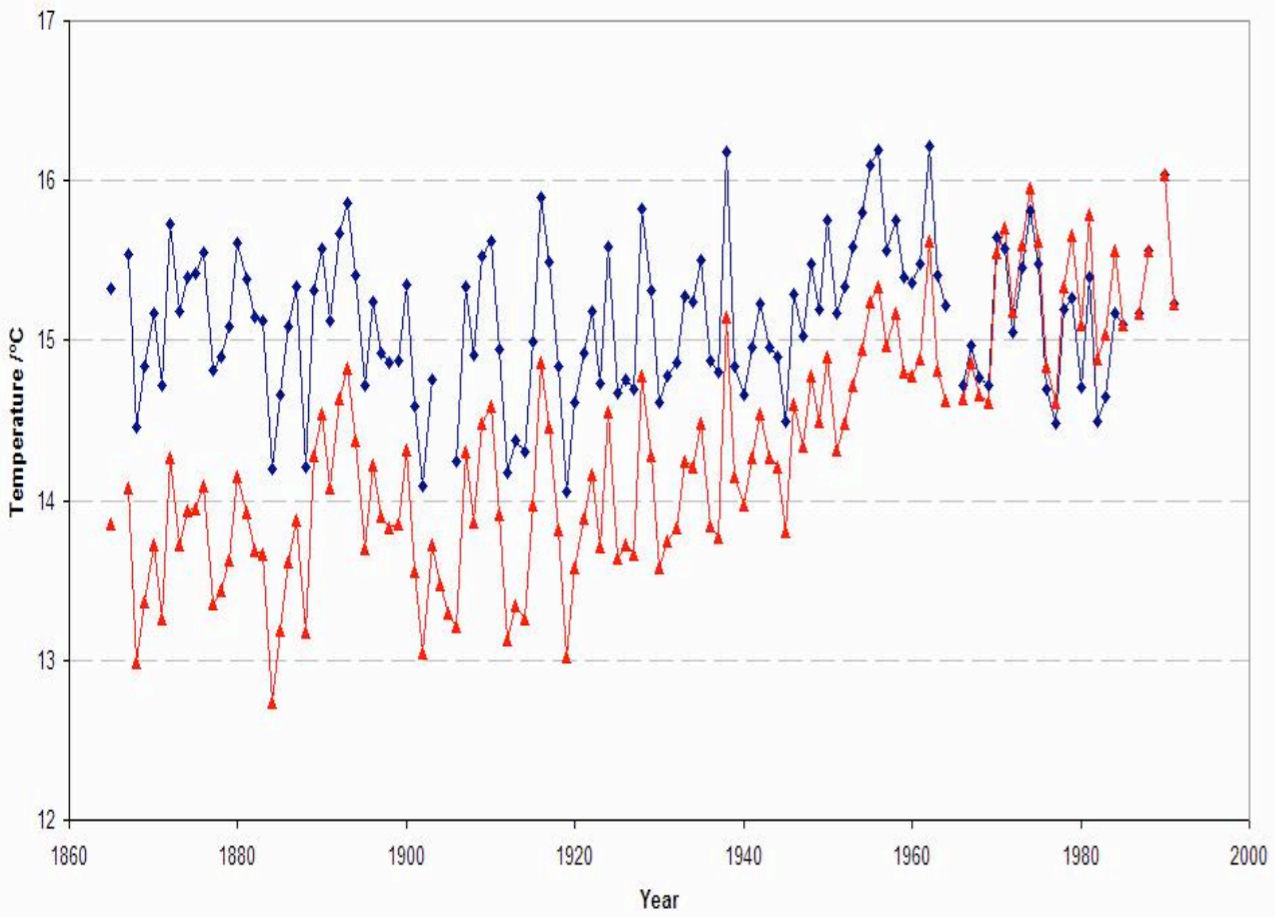


Source: <http://www.uoguelph.ca/~rmckitri/research/nvst.html>

Data Manipulation

Auckland Airport GHCN Comparison

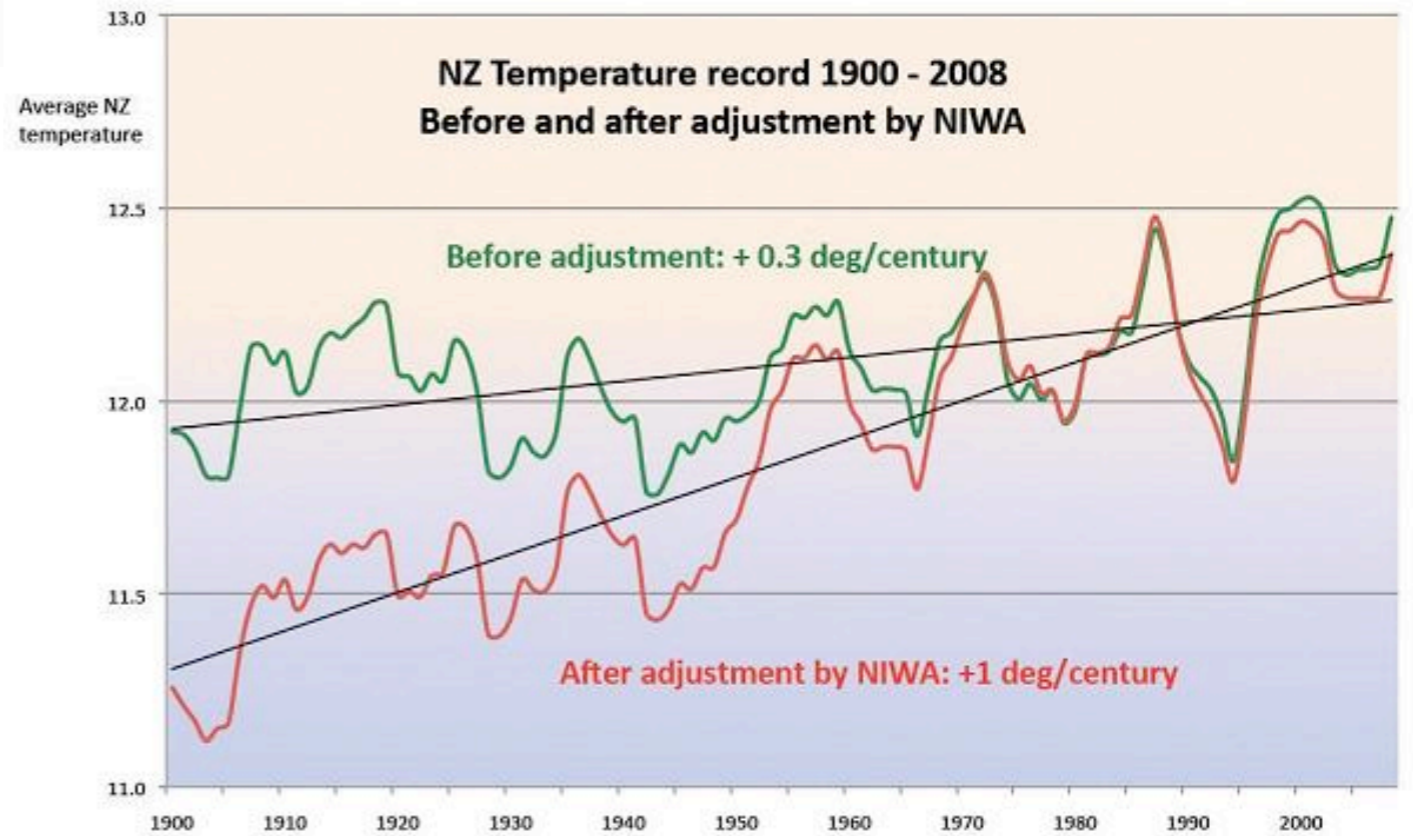
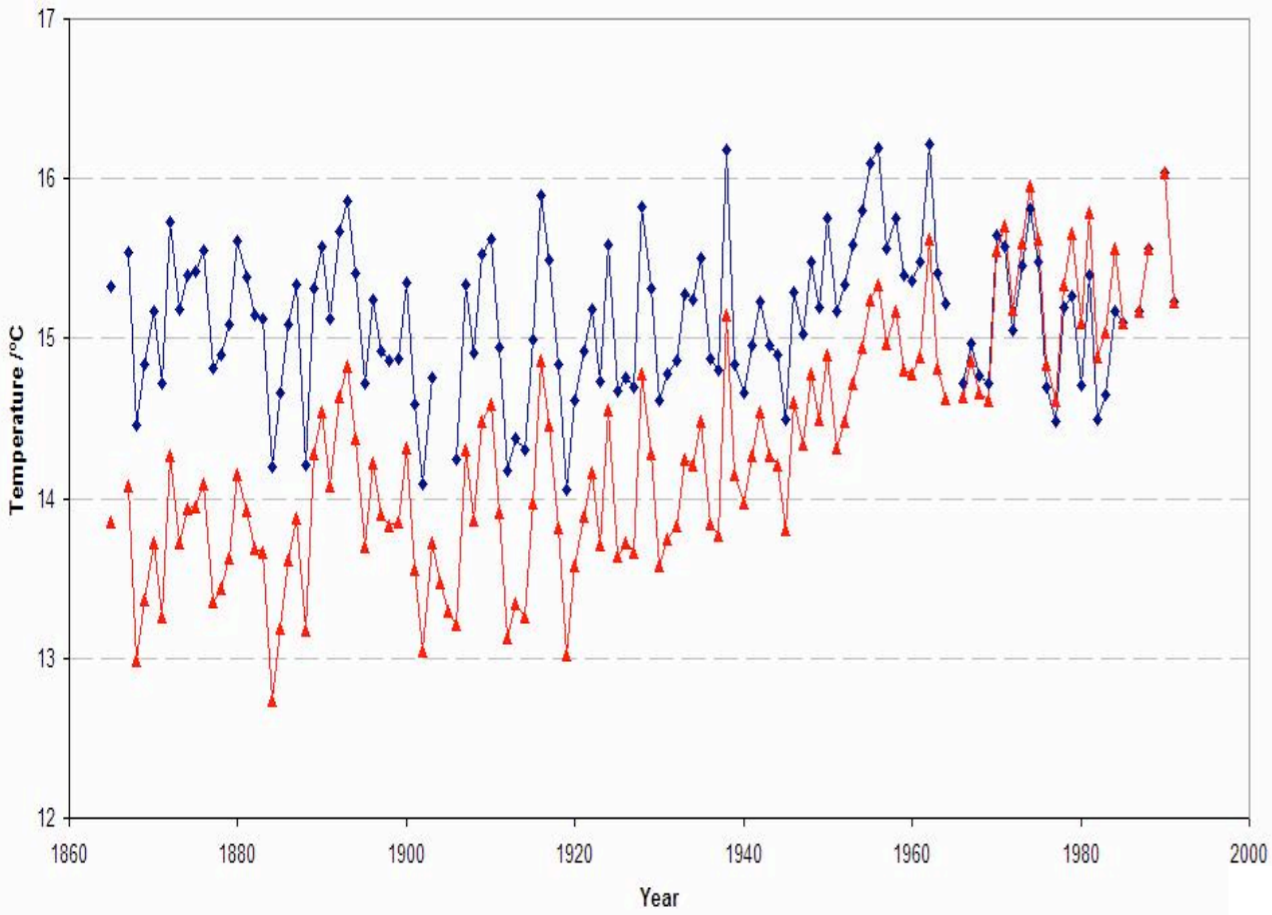
Unadjusted Adjusted



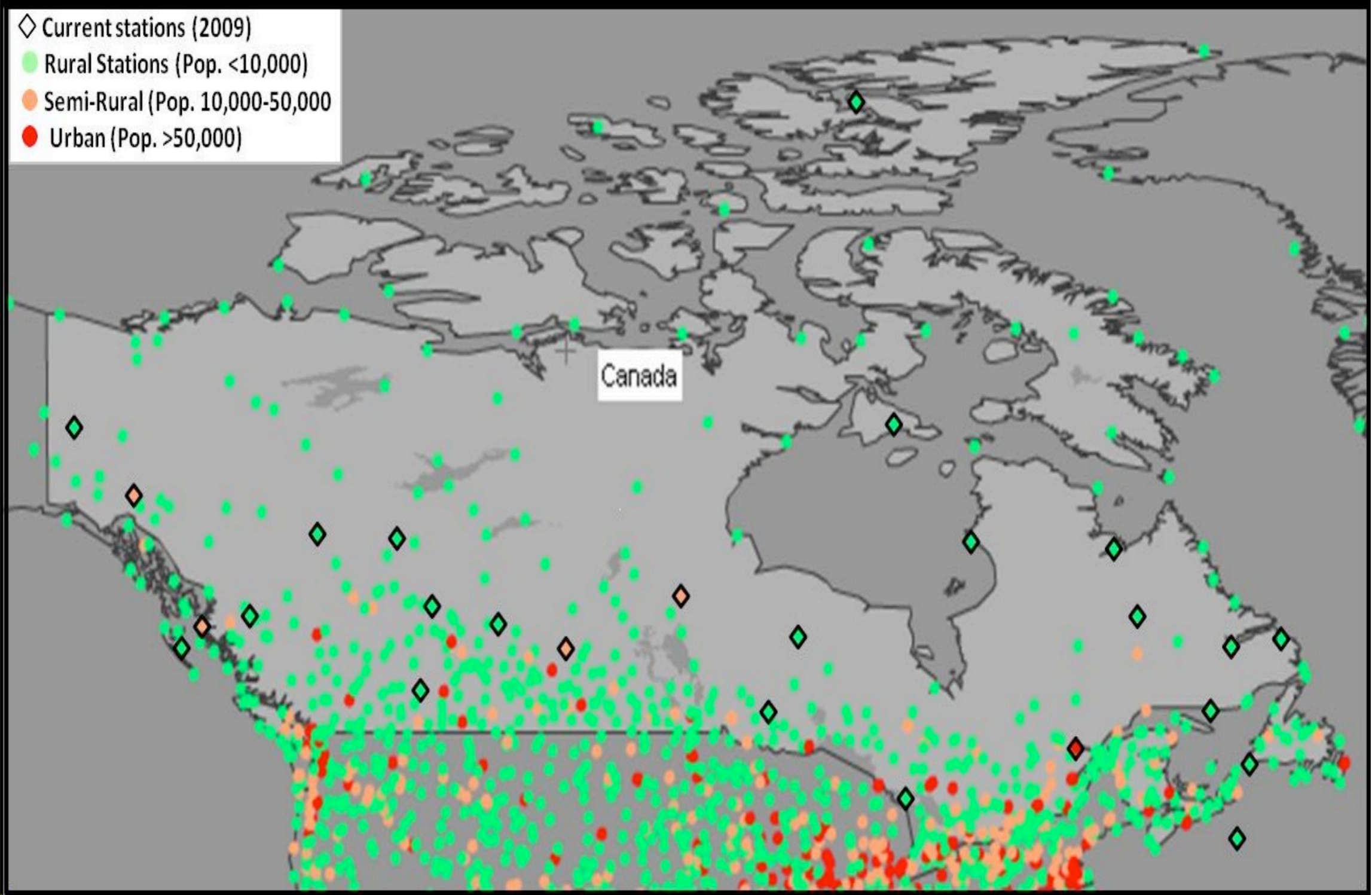
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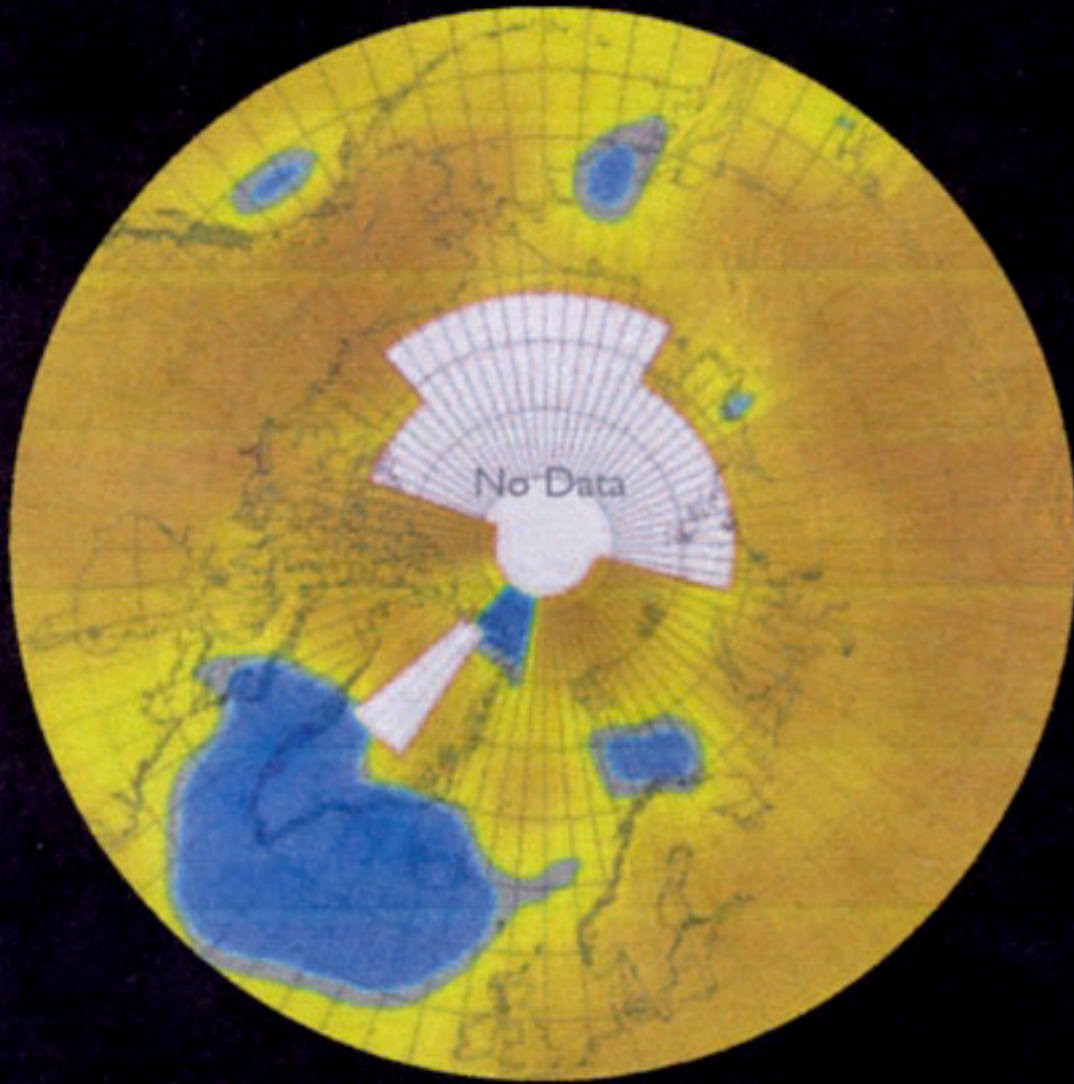


- ◇ Current stations (2009)
- Rural Stations (Pop. <10,000)
- Semi-Rural (Pop. 10,000-50,000)
- Urban (Pop. >50,000)



(a)

Annual



(b)

Winter (Dec–Feb)

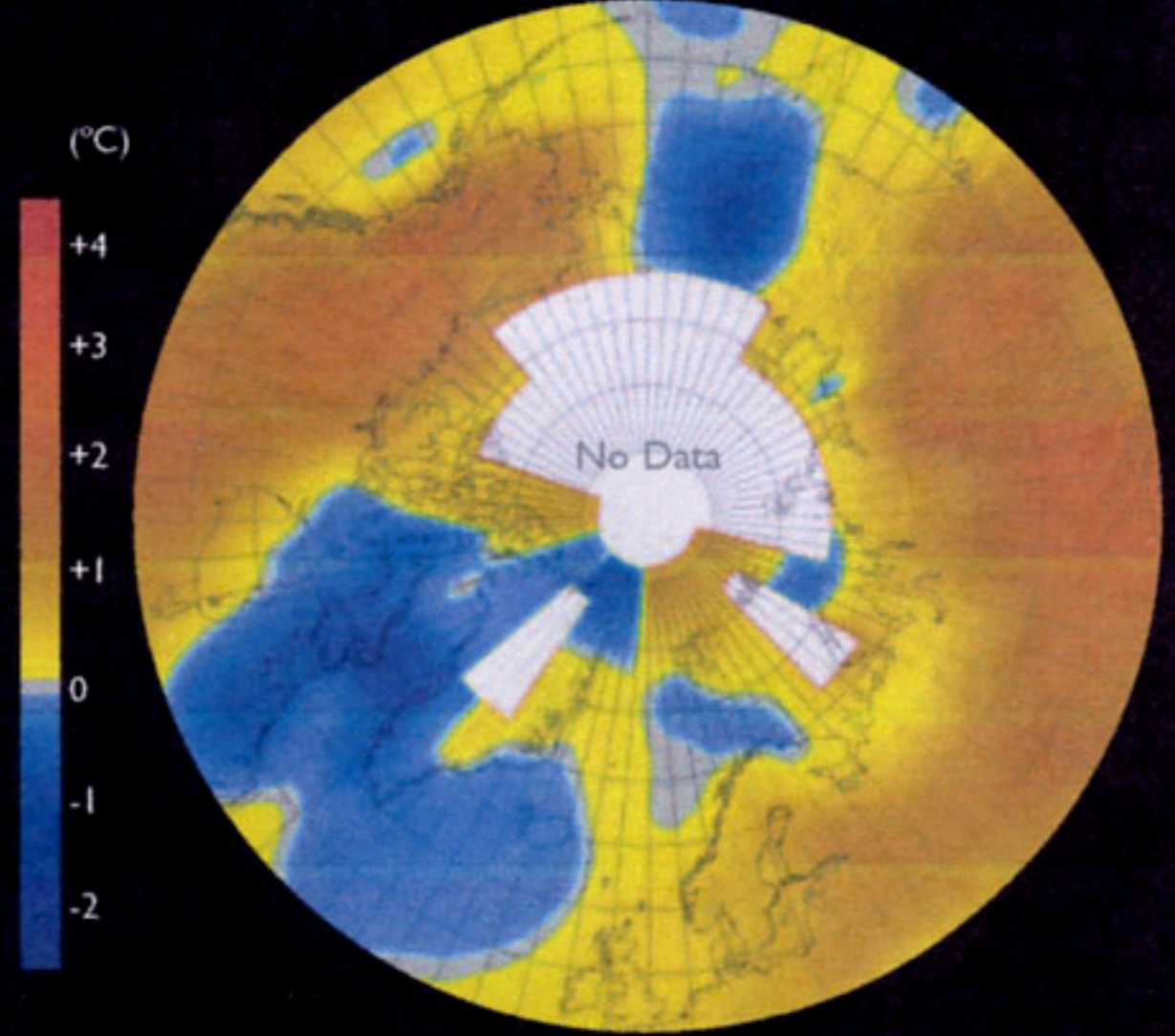
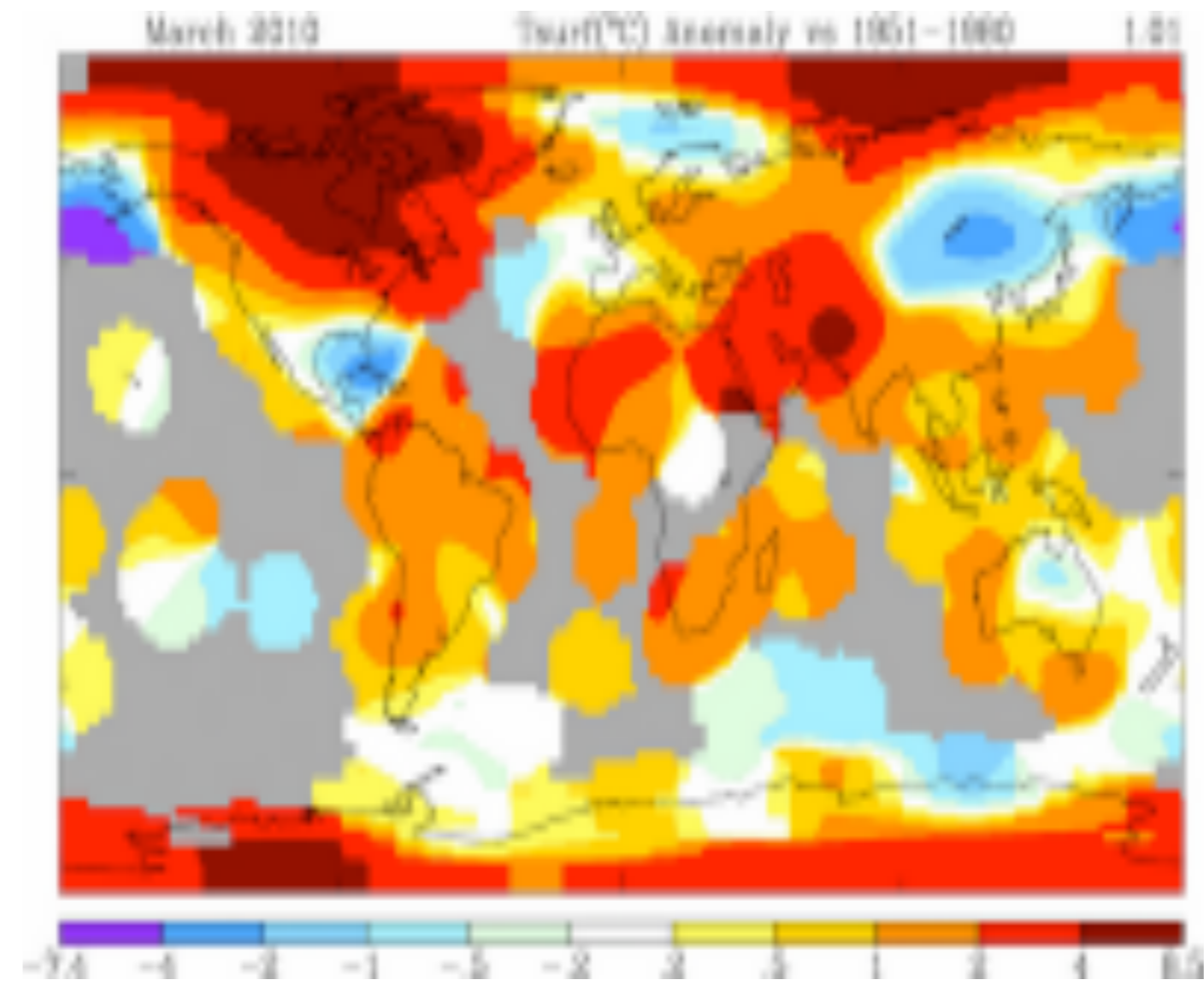
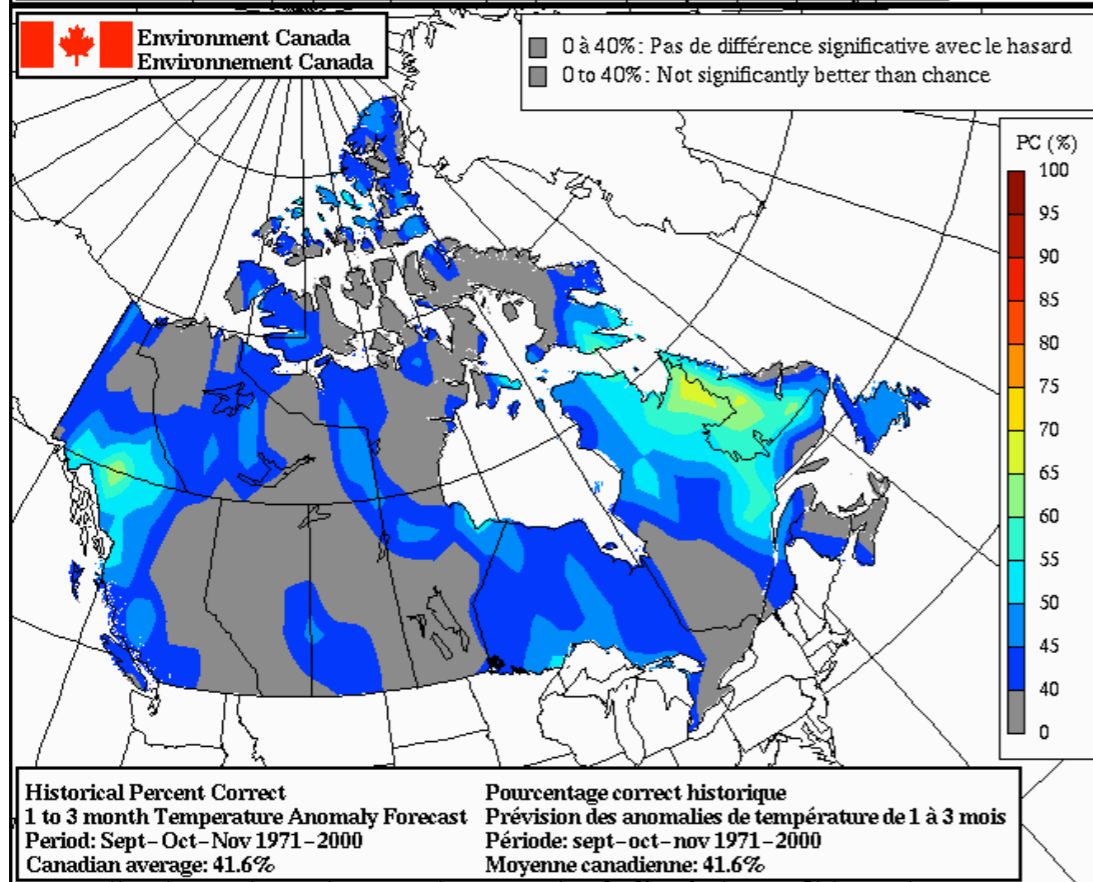
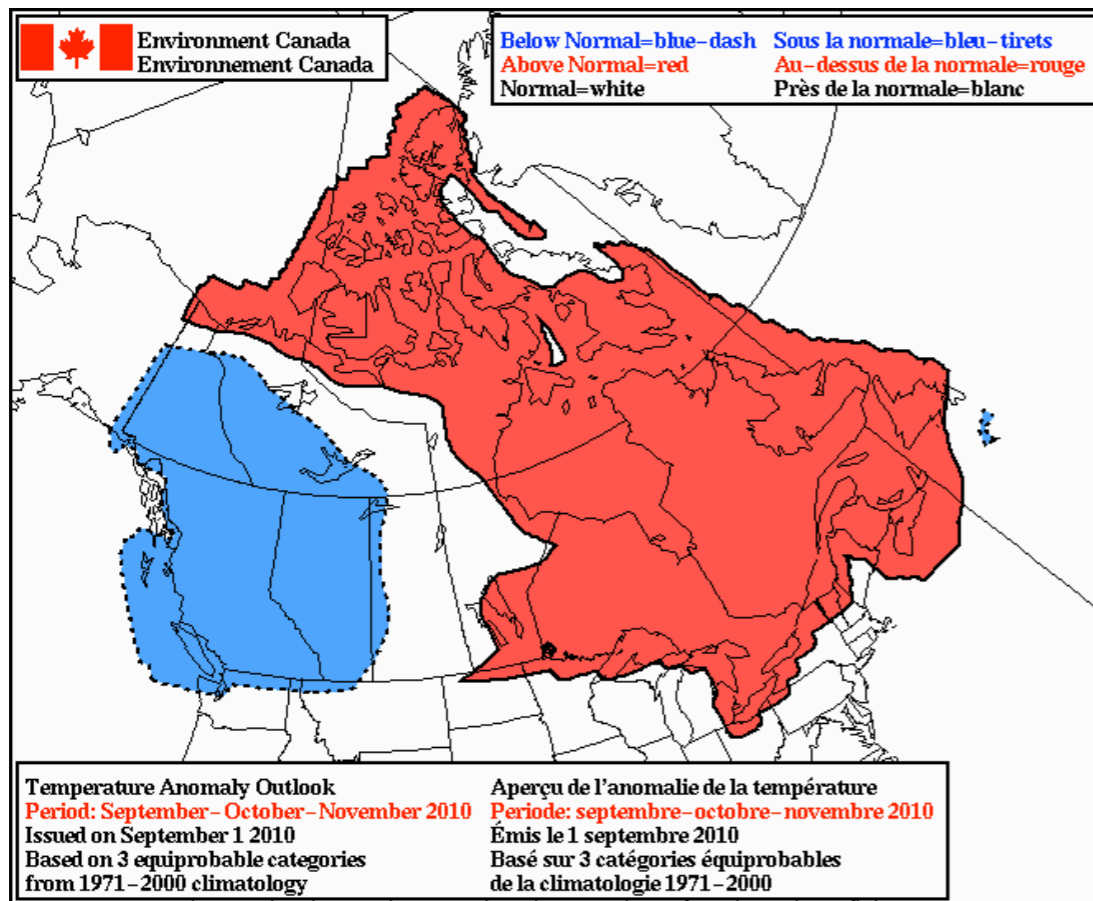


Fig. 1.3. Change in observed surface air temperature between 1954 and 2003: (a) annual mean; (b) winter (Chapman and Walsh, 2003, using data from the Climatic Research Unit, University of East Anglia, www.cru.uea.ac.uk/temperature).

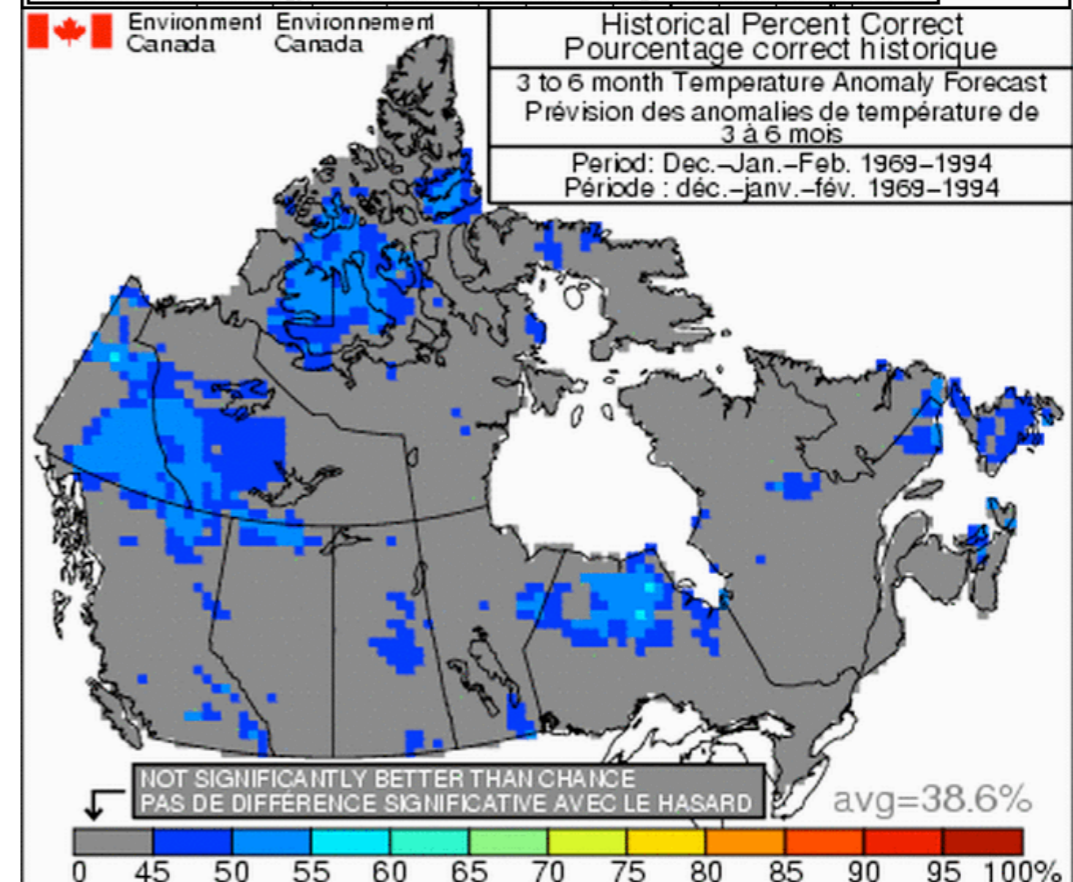
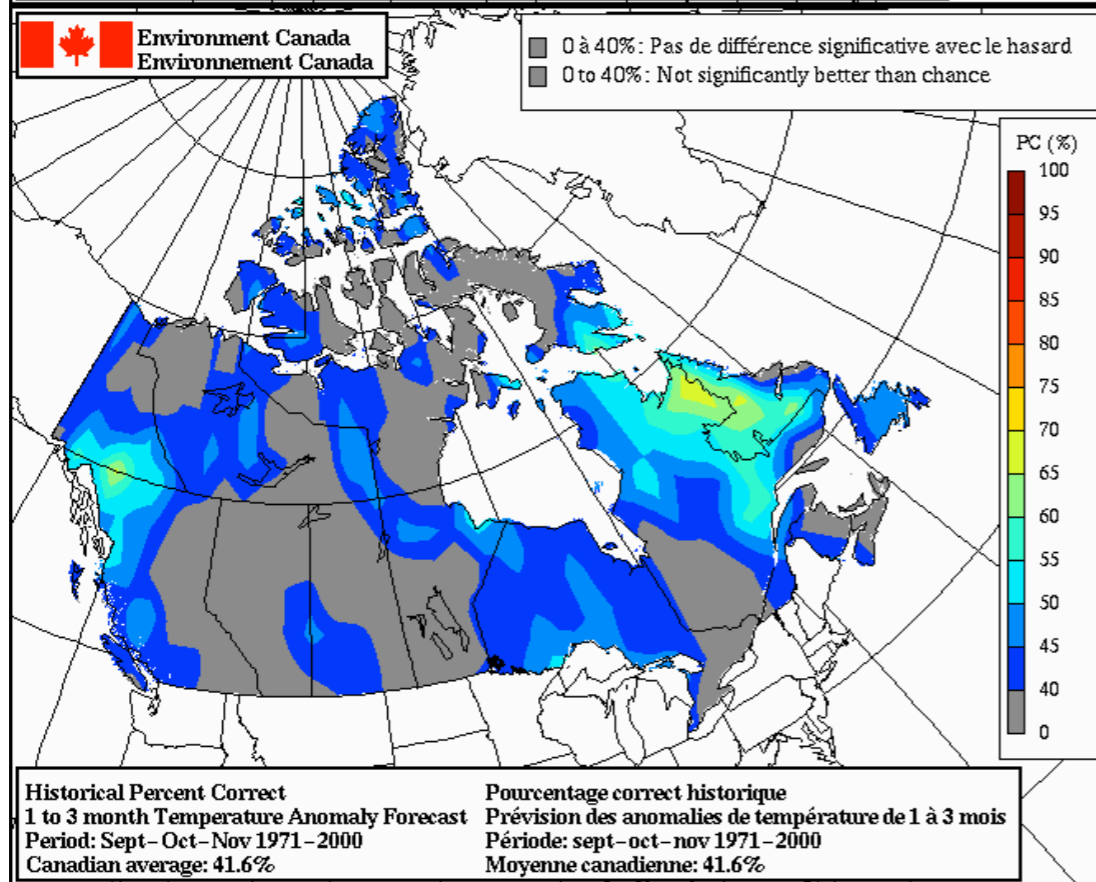
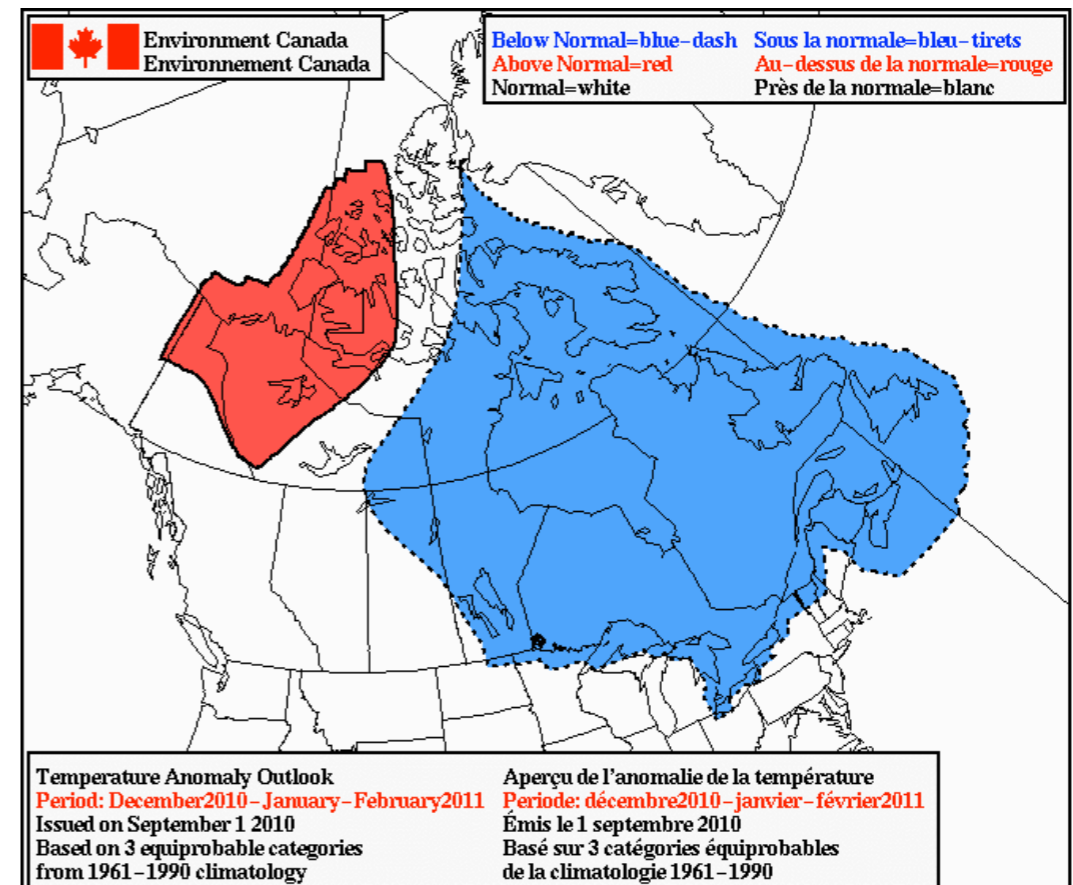
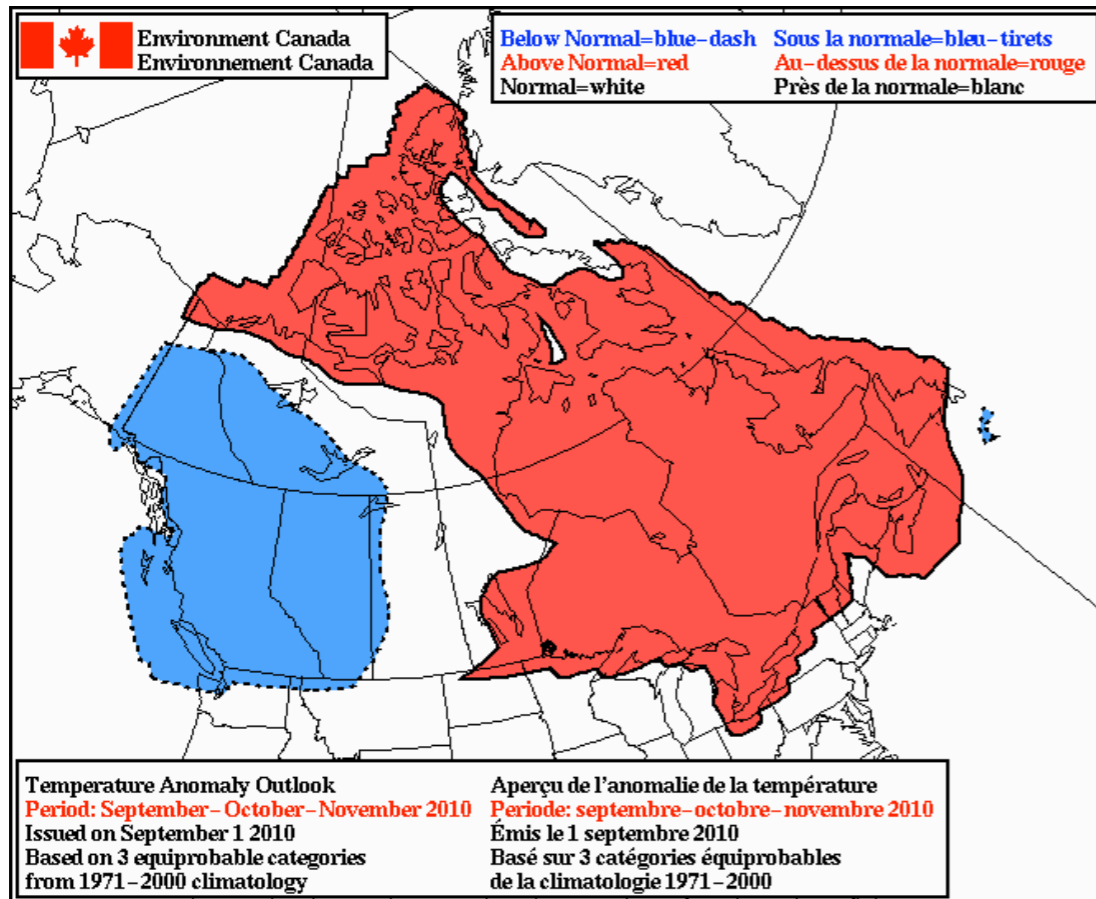


Global temperatures for March 2010
Source NASA GISS



For more information on this product see the following page:
http://weatheroffice.ec.gc.ca/saisons/info_prev_e.html

Pour de plus amples informations, consultez la page web suivante:
http://meteo.gc.ca/saisons/info_prev_f.html



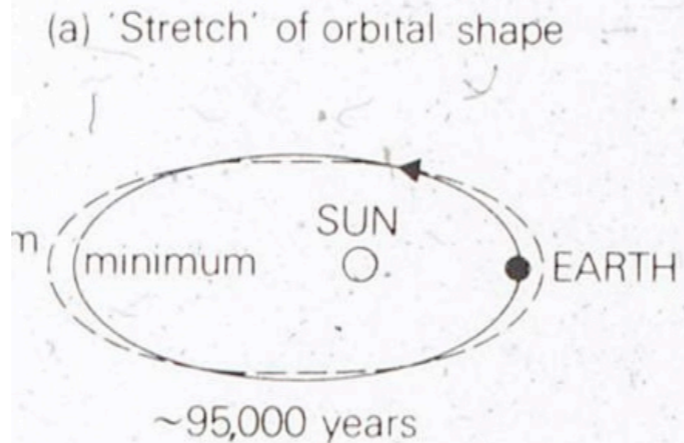
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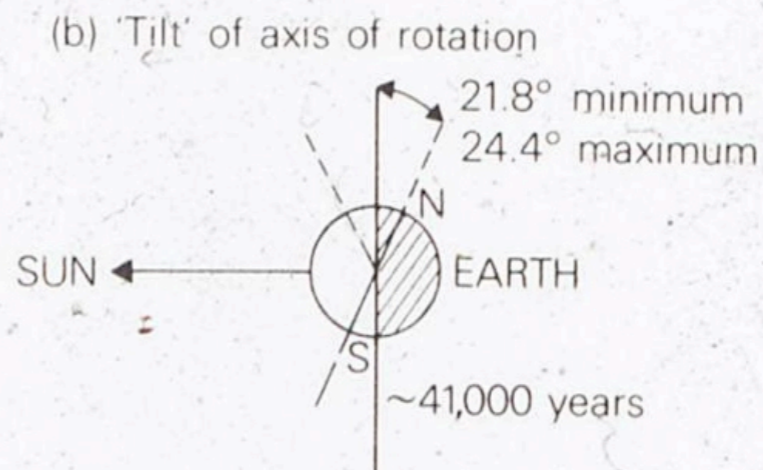
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Orbital Eccentricity

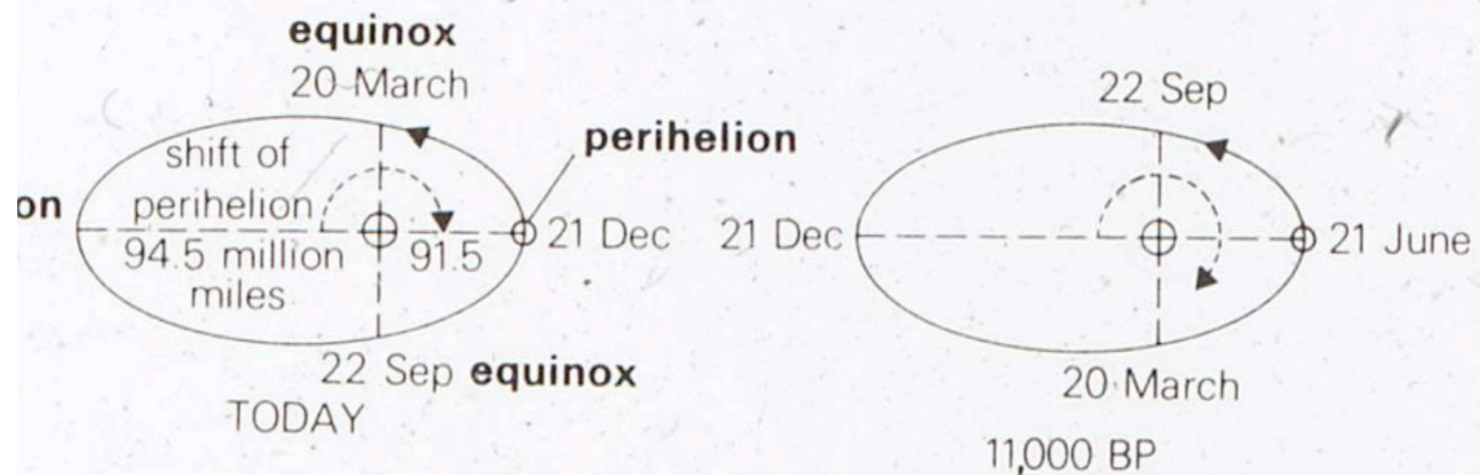


Obliquity of the Ecliptic

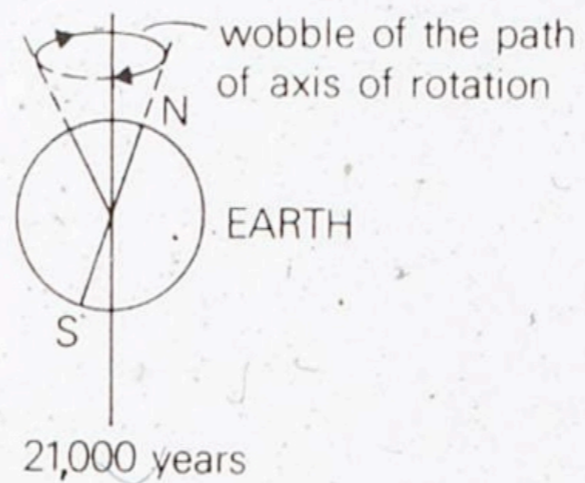


Precession of the Equinox

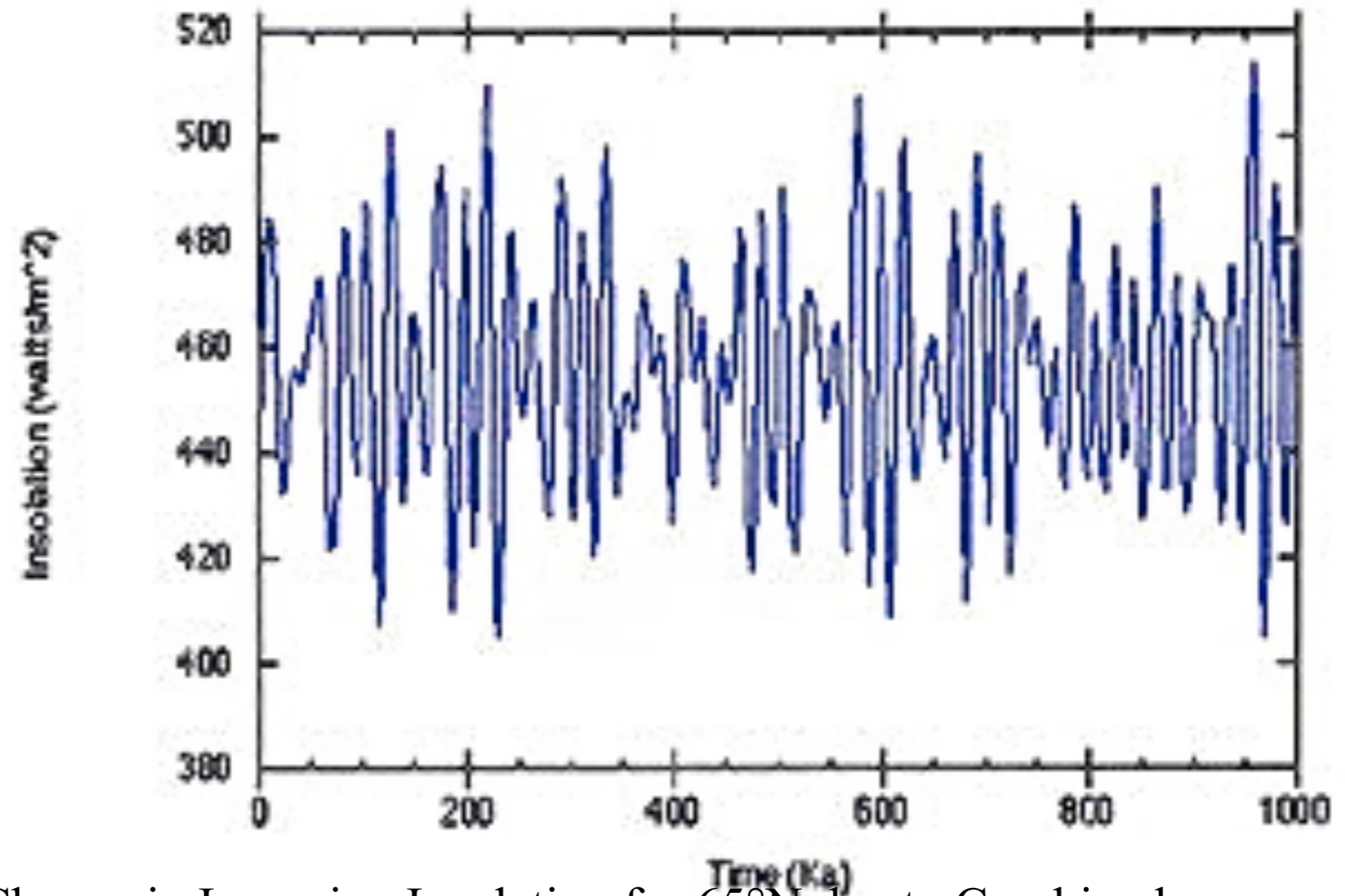
(c) Time of perihelion shifts due to axial 'wobble'



Axial Wobble

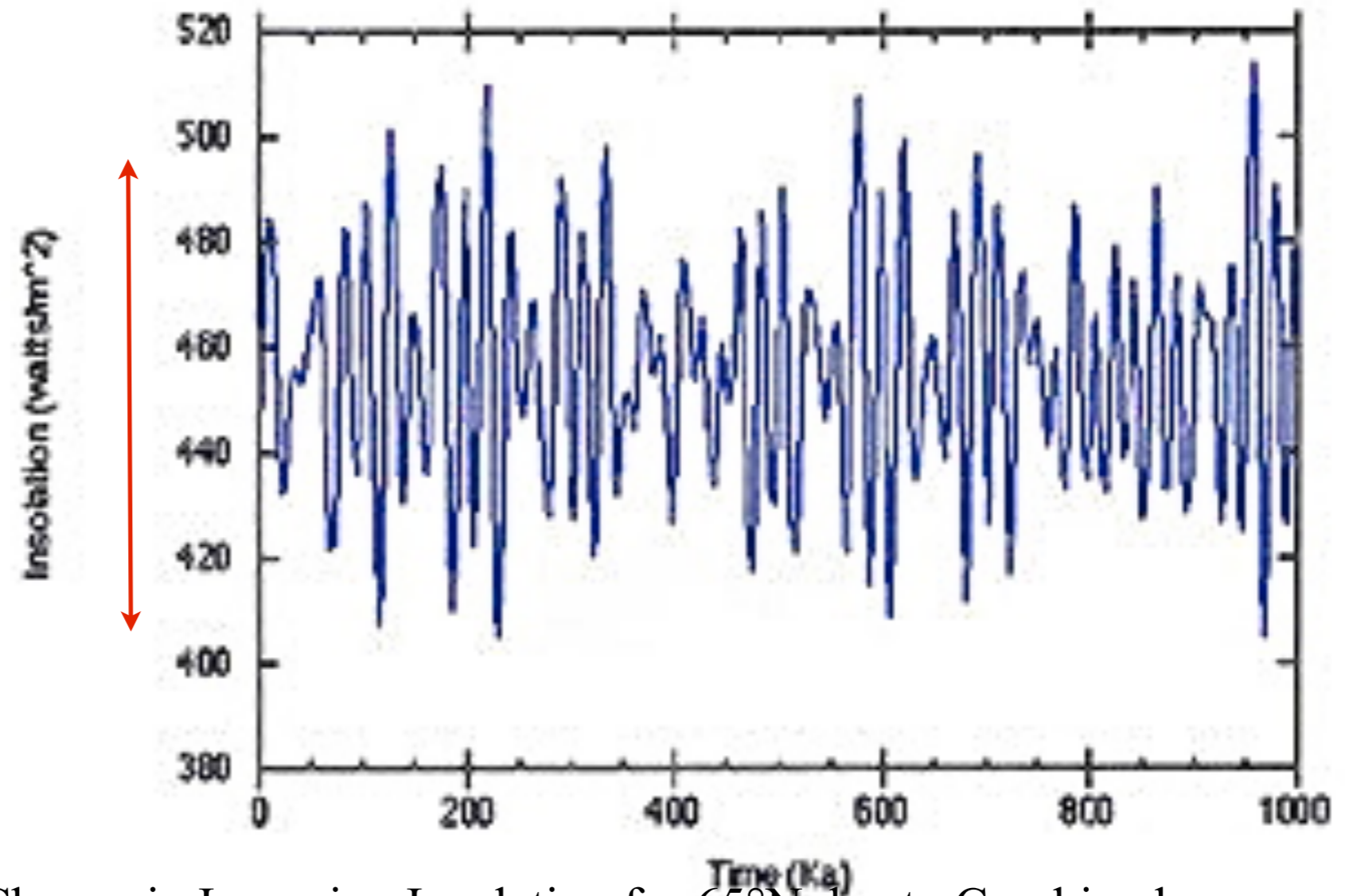


Milankovitch Effect



Change in Incoming Insolation for 65°N due to Combined Milankovitch Effect

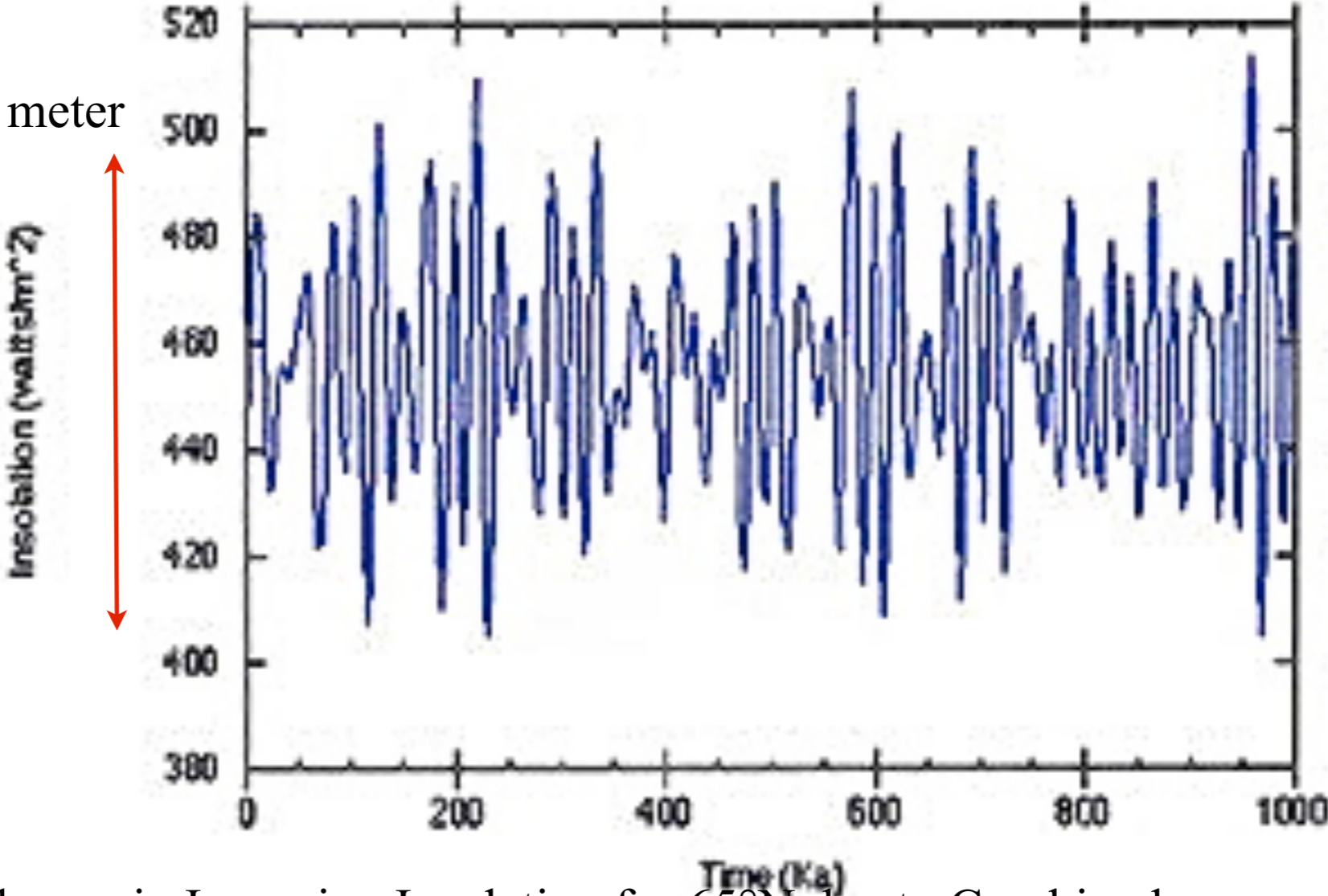
Source: BERGER, A. 1978. Long-term variations of daily insolation and quaternary climatic changes. *J. Atmos. Sci.* **35**: 2362–2367.



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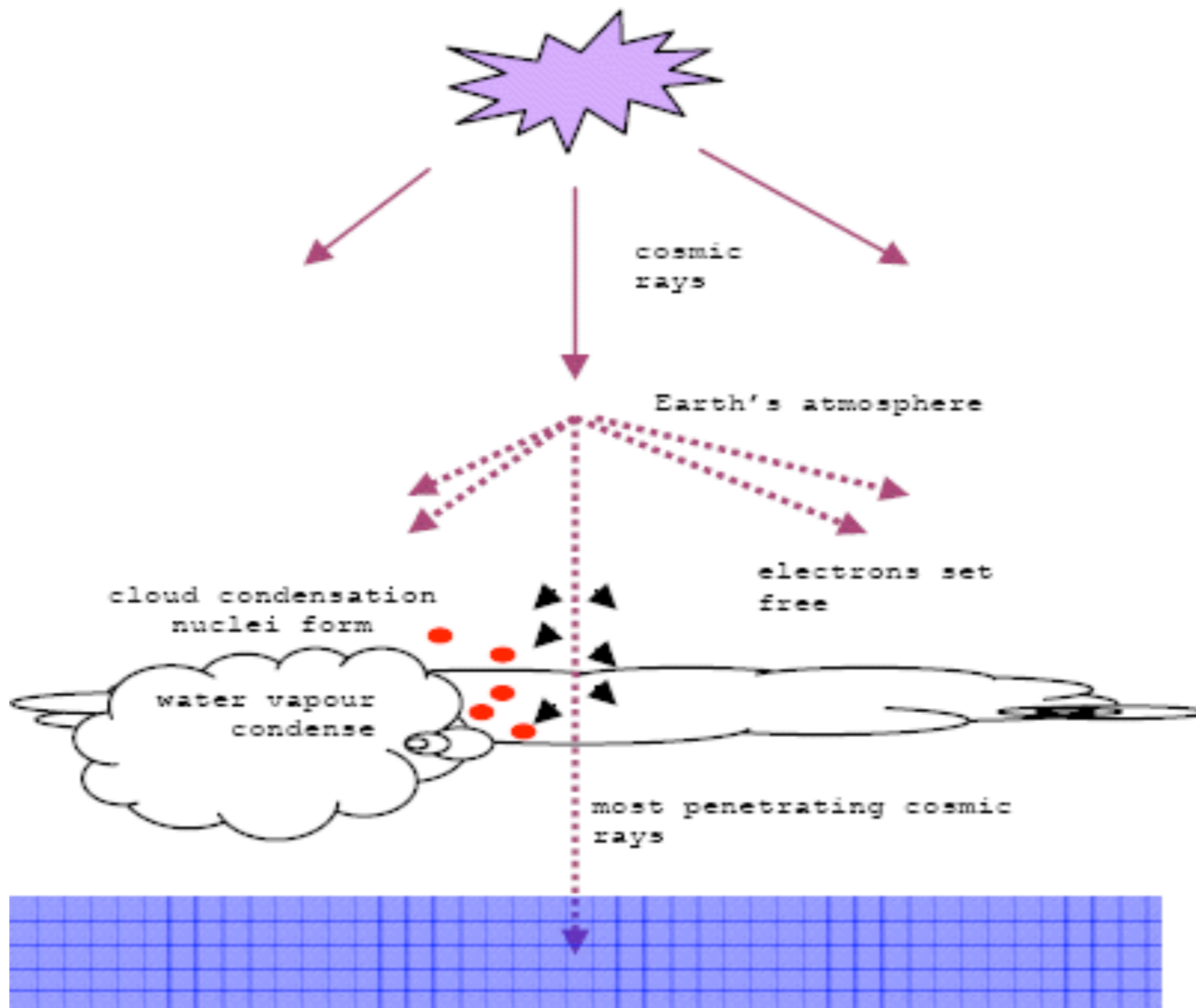
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Range 100 watts per square meter

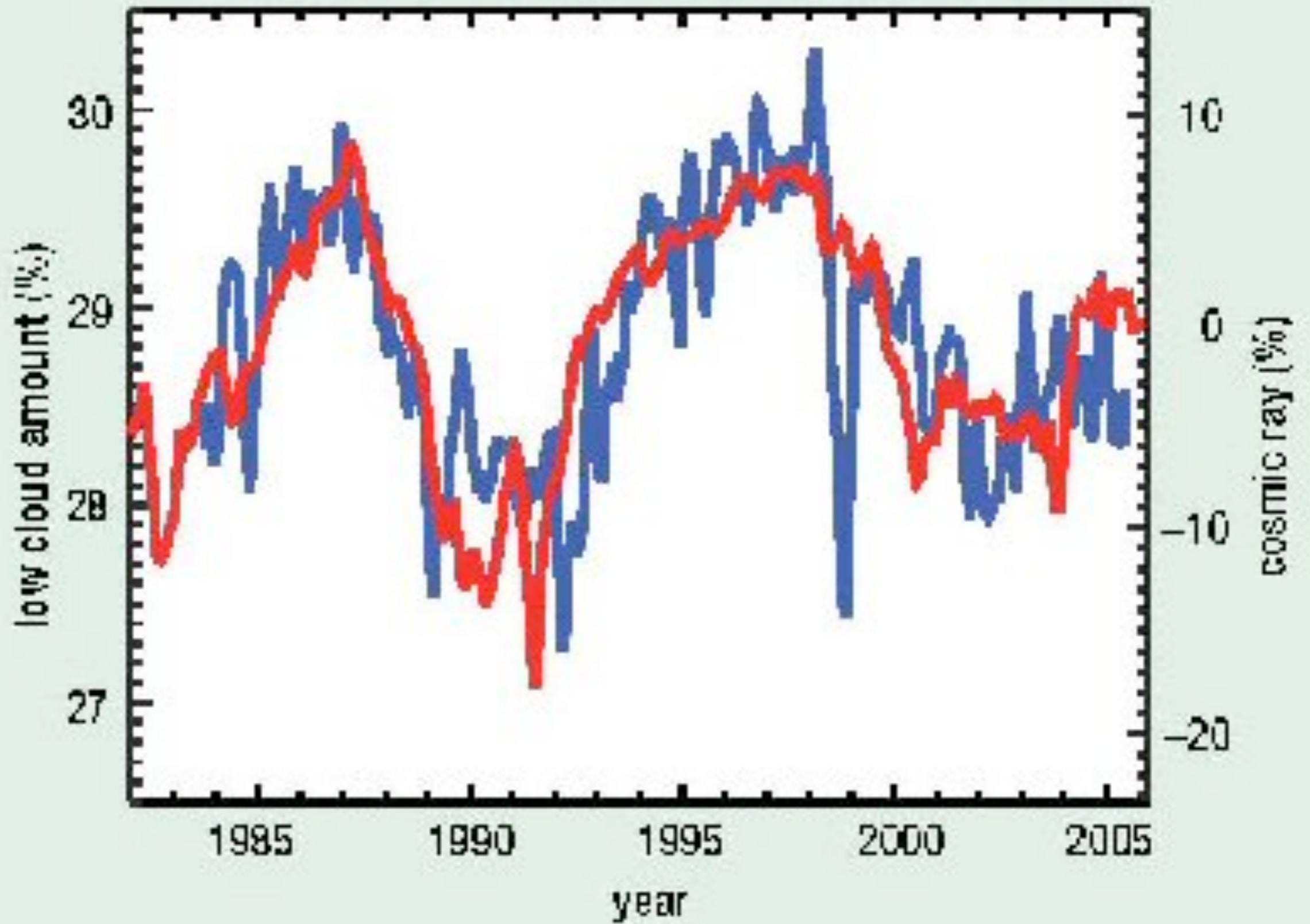


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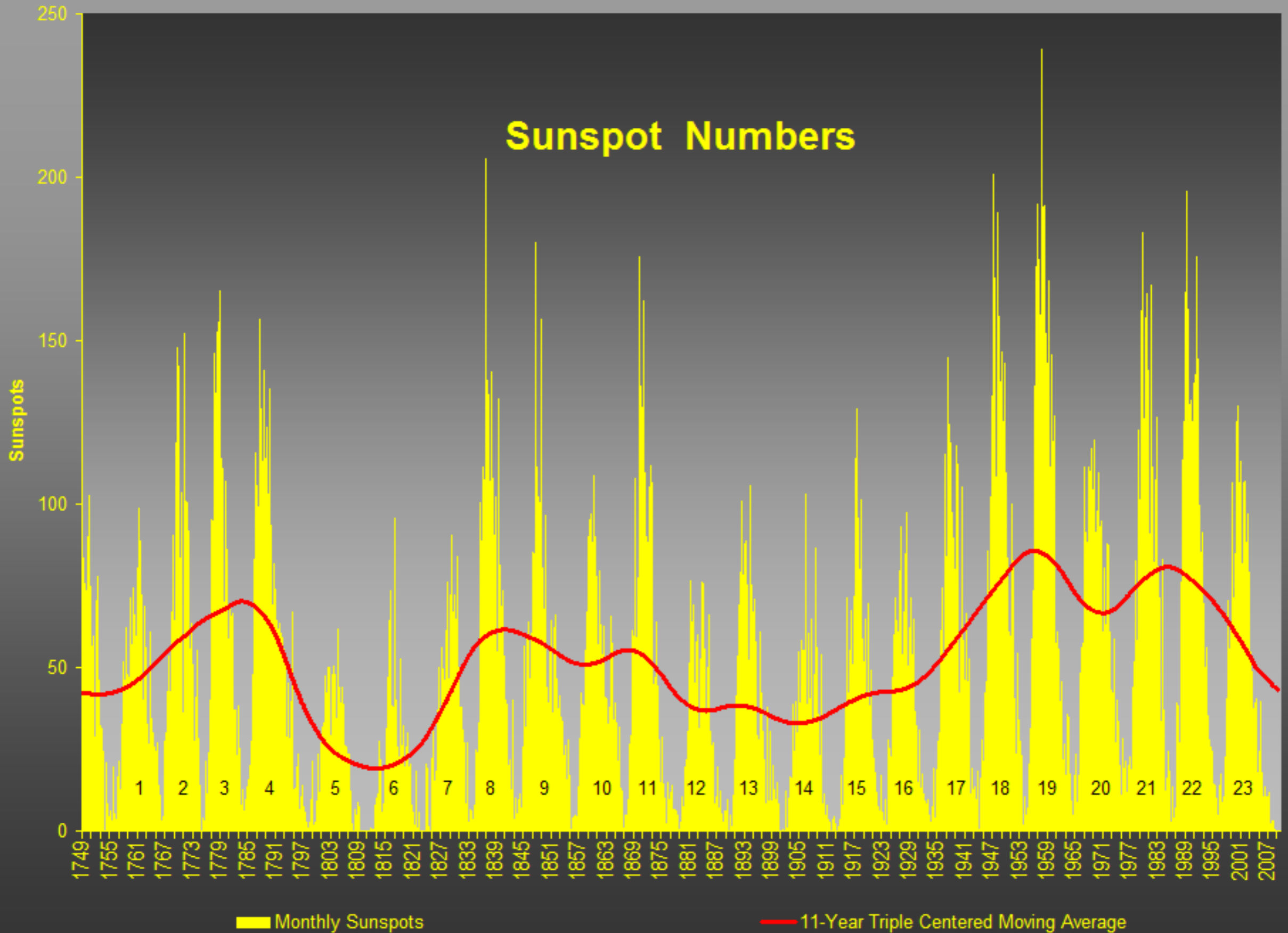


Svensmark's Cosmic Theory



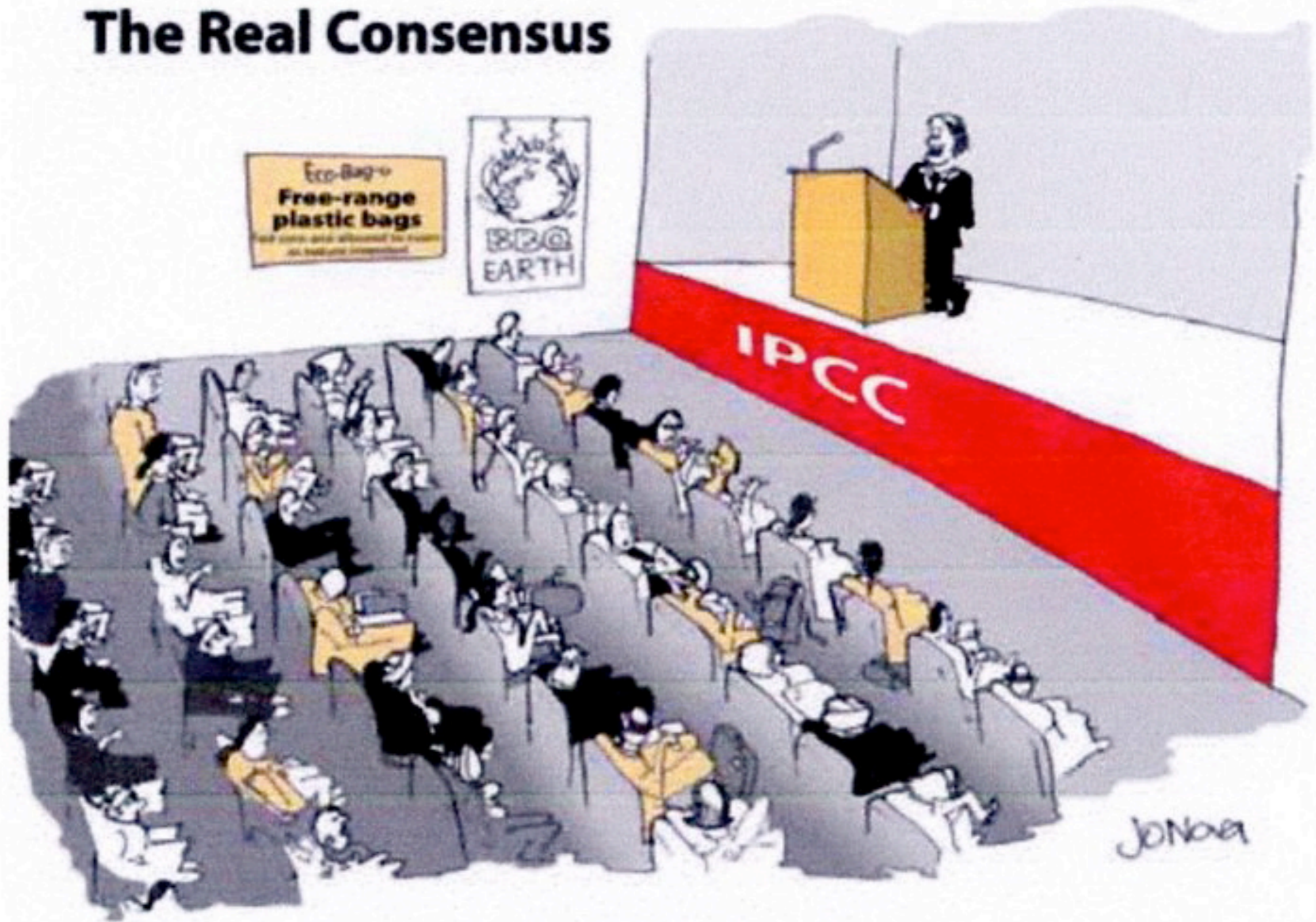
Comparison Low Cloud Cover and Cosmic Rays 1982 2005
Source: After Svensmark and Calder 2006

Sunspot Numbers





The Real Consensus



Hands-up. Who thinks greenhouse gases have no effect, and therefore we all need new jobs? Anyone?