

Why Global Warming Alarmists May Be Wrong

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Over the last 30 years, Global Warming Alarmists (GWAs) have preached that because of burning fossil fuels over the last 150 years, atmospheric carbon dioxide levels have risen 30 percent.

Furthermore, GWAs predict that continued use of fossil fuels will raise atmospheric greenhouse gas concentrations to such high levels that global temperatures will rise drastically.

GWAs say that a 4 – 5 degree rise in temperature could ---

melt polar ice and glaciers

inundate coastal areas as oceans rise

increase human death rate from heat stroke

cause widespread droughts

increase severity of hurricanes, tornadoes, etc.

cause many species to become extinct

They say that only drastic reductions in burning of fossil fuels can save humans from extinction.

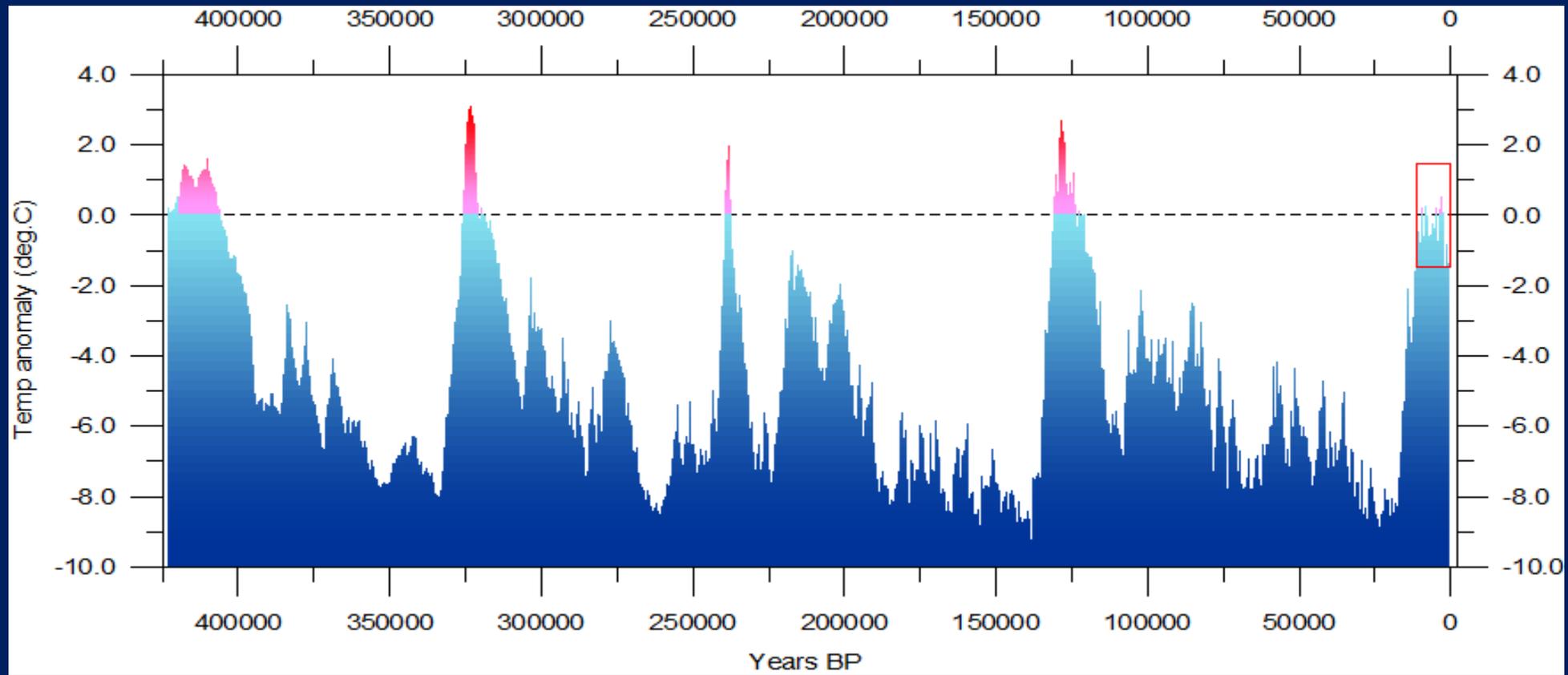
While tv commentators, radio talk show hosts, print media and President Obama make you believe that the catastrophe will happen next week, the UN Intergovernmental Panel on Climate Change (IPCC) says that these conditions may happen by 2100.

Actually, recent temperature measurements have shown that the 30 year warming trend has stopped and global temperature has leveled off.

But, GWAs continue warning about runaway rising temperatures.

So,
who's right?

Climate change is nothing new!



Over the last 450,000 years, there have been wide swings in global temperatures.

The UN Intergovernmental Panel on Climate Change (IPCC)

1995 UN IPCC's Historical Graph

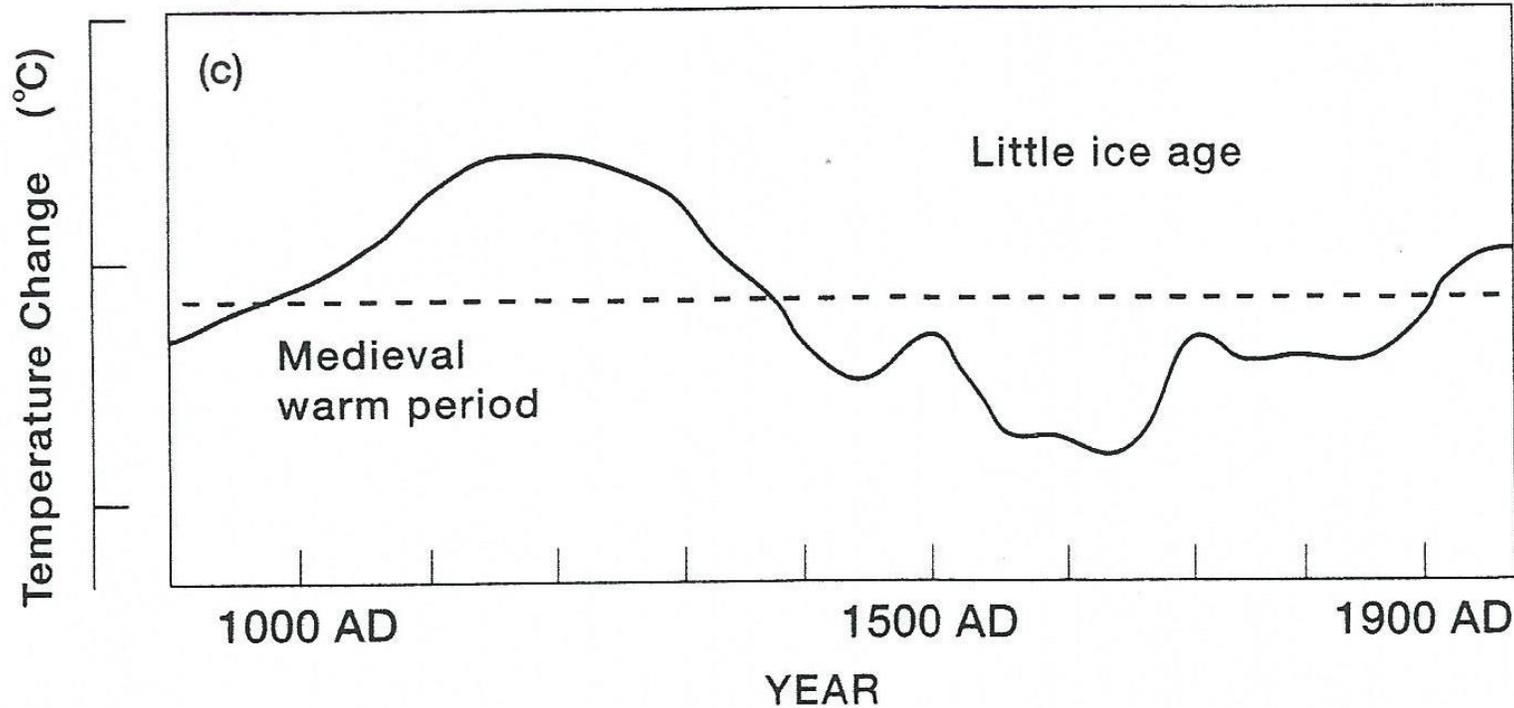


Figure 5.1. The Last 1,000 Years of Earth Temperatures from Tree Rings, Ice Cores, and Thermometers.

(Figure 22 in the IPCC's *Climate Change*, 1995.)

Shows Medieval Warm Period and Little Ice Age

2001 UN IPCC's Historical Graph

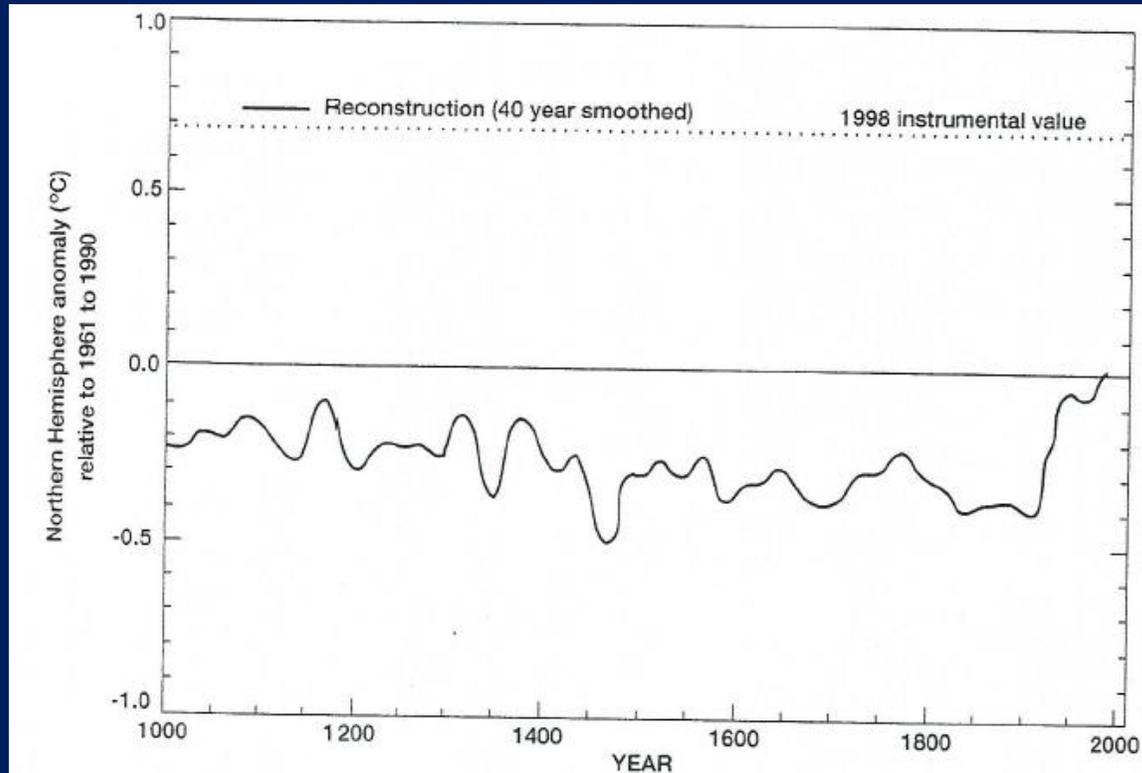


Figure 5.2: The Infamous "Hockey Stick" Graph that Eliminates the Little Ice Age and Medieval Warming, and Exaggerates the Modern Warming.

(Figure 2.20 in the IPCC's *Climate Change 2001*.)

Eliminated Medieval Warm Period and Little Ice Age and Exaggerated Modern Warming

Hockey Stick Graph

Hockey stick graph originally prepared by Michael Mann, UMass, used tree ring data from 1000 to 1980 and then switched to surface temperature readings from official thermometers, many of which were located in urban heat islands.

Mann's graph showed 900 years of stable temperatures until 1910. Then, 20th century temperatures seemed to rocket upward out of control.

The Medieval Warm Period and the Little Ice Age had disappeared.

The Battle Began

McIntyre – McKittrick Reanalysis

Canadian Stephen McIntyre (metals expert) and Ross McKittrick (statistician) reanalyzed the original Mann data and found data did not produce the claimed results “due to collation errors, unjustifiable truncation or extrapolation of source data, obsolete data, geographical location errors, incorrect calculation of principal components and other quality control defects.”

Using corrected and updated source data, M&M recalculated Northern hemisphere temperature index for the period of 1400 to 1980 using Mann’s own methodology.

Results were published in *Energy & Environment*.

McIntyre – McKittrick Reanalysis

“The major finding is that the [warming] in the early 15th century exceed[s] any [warming] in the 20th century.” report M&M.

So, the Mann study was fundamentally wrong.

Mann’s position is that their published “correction” specifically says that while their published proxy data set contained several errors, “None of these errors affect our previously published results.”

Impact of CO₂ Fertilization

The Mann study gives by far the heaviest 20th century weight to tree ring data from 14 sites in California's Sierra Nevada Mountains. At those sites, slow growing bristlecone pine trees showed a strong growth spurt after 1900.

Greybill and Idso (1993) specifically pointed out that neither local nor regional temperature changes could account for the 20th century growth spurt in those already mature trees. Increased levels of carbon dioxide caused the growth spurt.

Mann and his coauthors could hardly have escaped knowing the CO₂ reality, since it was clearly presented in the title of the study from which they derived their most heavily weighted data sites.

Commentary by Terence Corcoran, Canada's *Financial Post*

“ One of the propaganda icons of the United Nations climate change machine, and the Kyoto process is about to get swept away as a piece of junk science. The icon is the Hockey Stick, a nifty graphic that claimed to show that the world climate drifted along at nice stable temperatures for almost 1,000 years until the late 20th century, when temperatures suddenly started to soar. News that the Hockey Stick, reproduced and cited in thousands of reports and publications, is about to get zapped is sweeping the climate science community. (continued)

Commentary by Terence Corcoran, Canada's *Financial Post* (contd.)

This should come as a major embarrassment at the Intergovernmental Panel on Climate Change, the UN agency that has been using the Hockey Stick as a central propaganda tool ... Other scientists here also deconstructed parts of the Stick and have found it to be inappropriate. And that means one of the great climate claims, that 20th century carbon emissions caused unprecedented global warming, is just plain wrong.”

The Battle Continued to Rage

National Academy of Science Evaluation

At the request of Congress, the National Academy of Science formed a committee to evaluate the controversy surrounding the Hockey Stick graph.

The panel published the following graph:

National Academy of Science Reconstruction

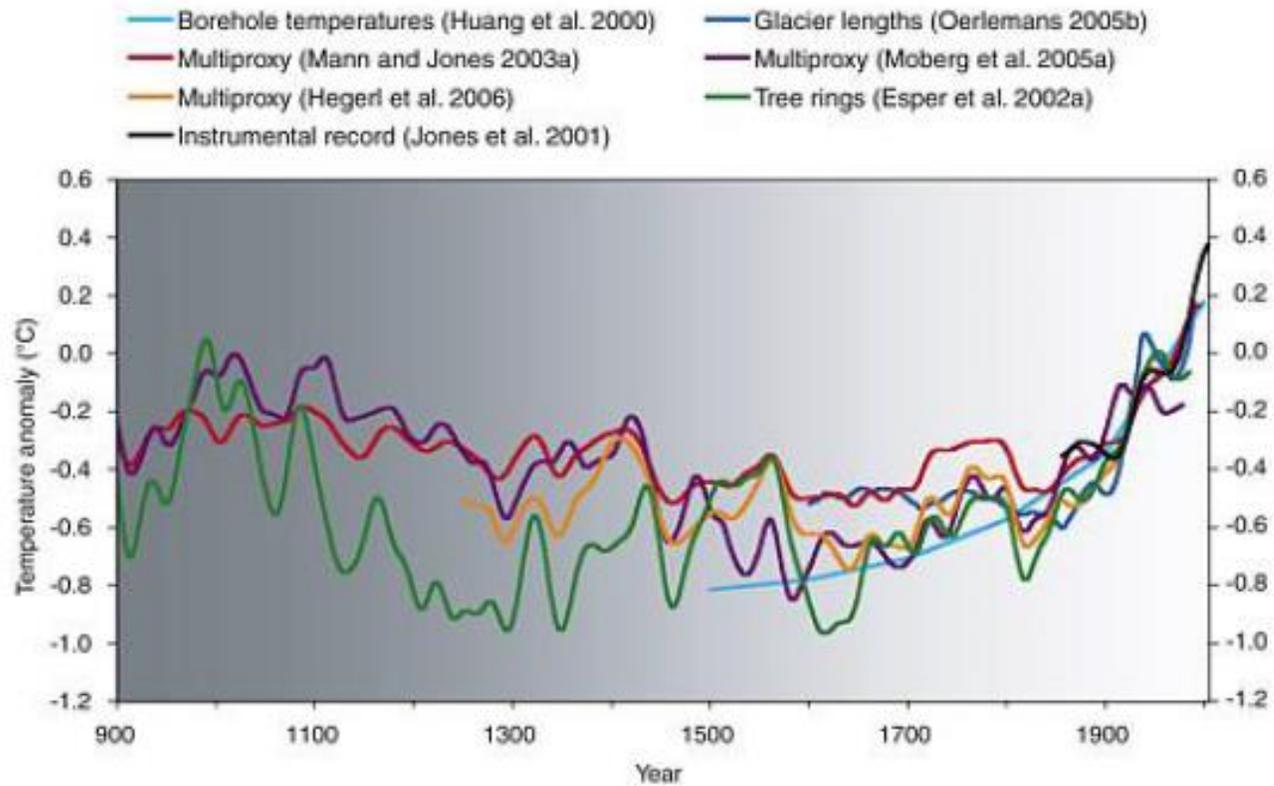


FIGURE S-1 Smoothed reconstructions of large-scale (Northern Hemisphere mean or global mean) surface temperature variations from six

National Academy of Science Reconstruction

In June 2001, the panel released their report concluding, “Our primary conclusion was that despite some knowledge and some agreement, the science is by no way settled. We are quite confident (1) that global mean temperature is 0.5 degrees Celsius higher than a century ago; (2) that atmospheric levels of carbon dioxide have risen over the last two centuries; and (3) that carbon dioxide is a greenhouse gas whose increase is likely to warm earth. But --- and I cannot stress this enough --- we are not in a position to confidently attribute past climate change to carbon dioxide or to forecast what climate will in the future.”

National Academy of Science Reconstruction

Furthermore,

“That is to say contrary to media impressions, agreement with the three basic statements tells us almost nothing relevant to policy discussions.”

Can We Trust The Media?

For instance, Stephen Schneider, an environmental activist stated, “We have to offer up scary scenarios, make simplified dramatic statements, and make little mention of any doubts that we may have. Each of us has to decide what the right balance is between being effective and being honest.” Discover, 1989

Are CO₂ levels
responsible for rising
temperatures?

Data show that CO₂ levels haven't controlled earth's past temperatures.

Actually, rising temperatures are responsible for increasing atmospheric CO₂ levels.

Analysis of Antarctic ice cores show that Earth's temperatures and CO₂ levels have tracked closely together through the last three ice ages and global warmings.

However, CO₂ concentrations lag about 800 years behind rising temperatures.

Why?

The ocean gives up CO₂ when it and the atmosphere warm, which then stimulates more plant growth on land. Larger plants sequester more carbon.

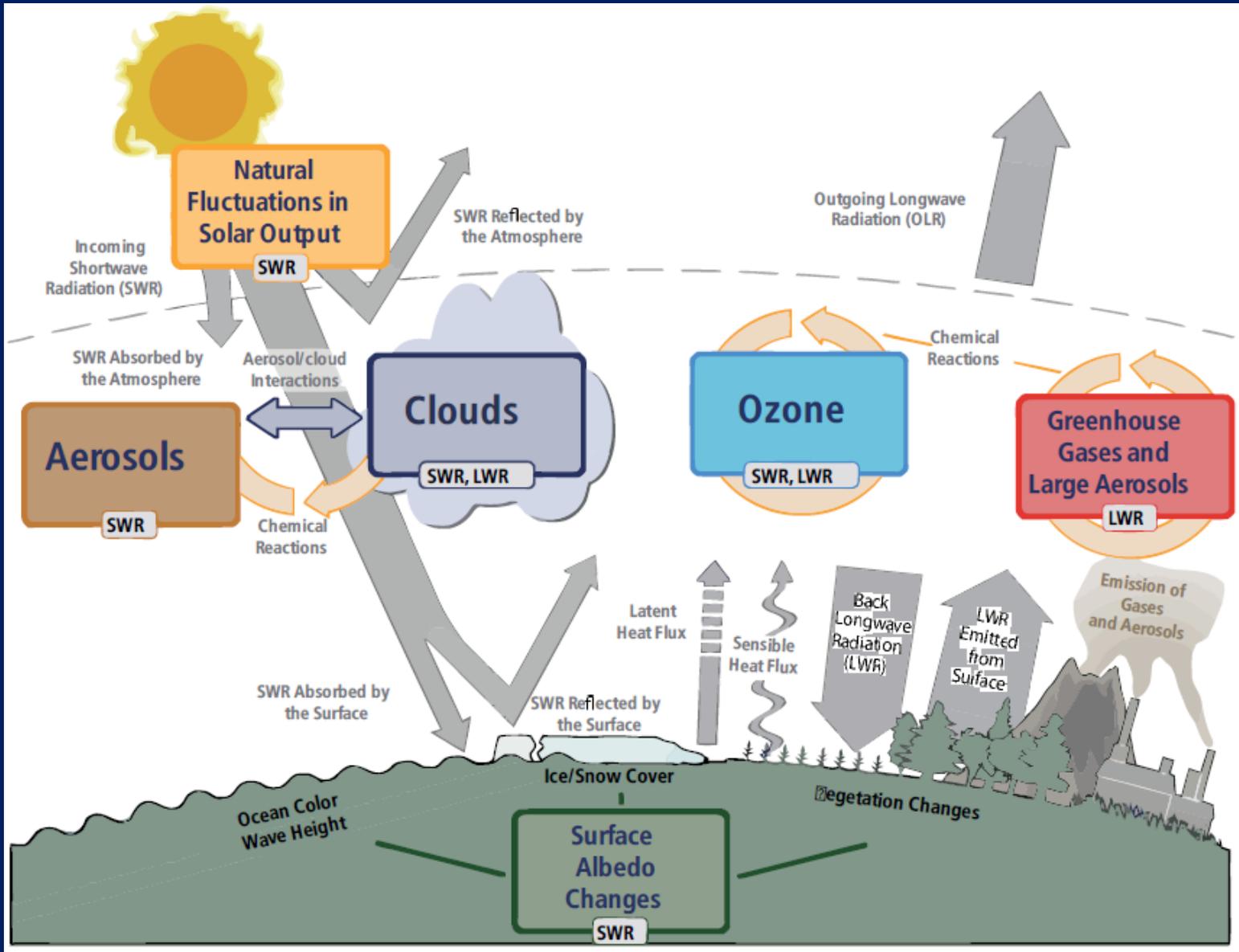
The lag time is related to the ocean mixing time required for CO₂ to be released from the water.

Analysis of argon isotopes in the Antarctic ice cores produced an even more accurate record of the time lag for CO₂ increases after temperature increases – 200 to 800 years.

This study concluded “This confirms that CO₂ is not the forcing that initially drives the climatic system during a deglaciation.”

So, if the atmospheric CO₂
concentration is not
responsible for controlling
global temperatures, then
what is?

Global temperatures are determined by the amount of energy that Earth receives, retains and radiates away.

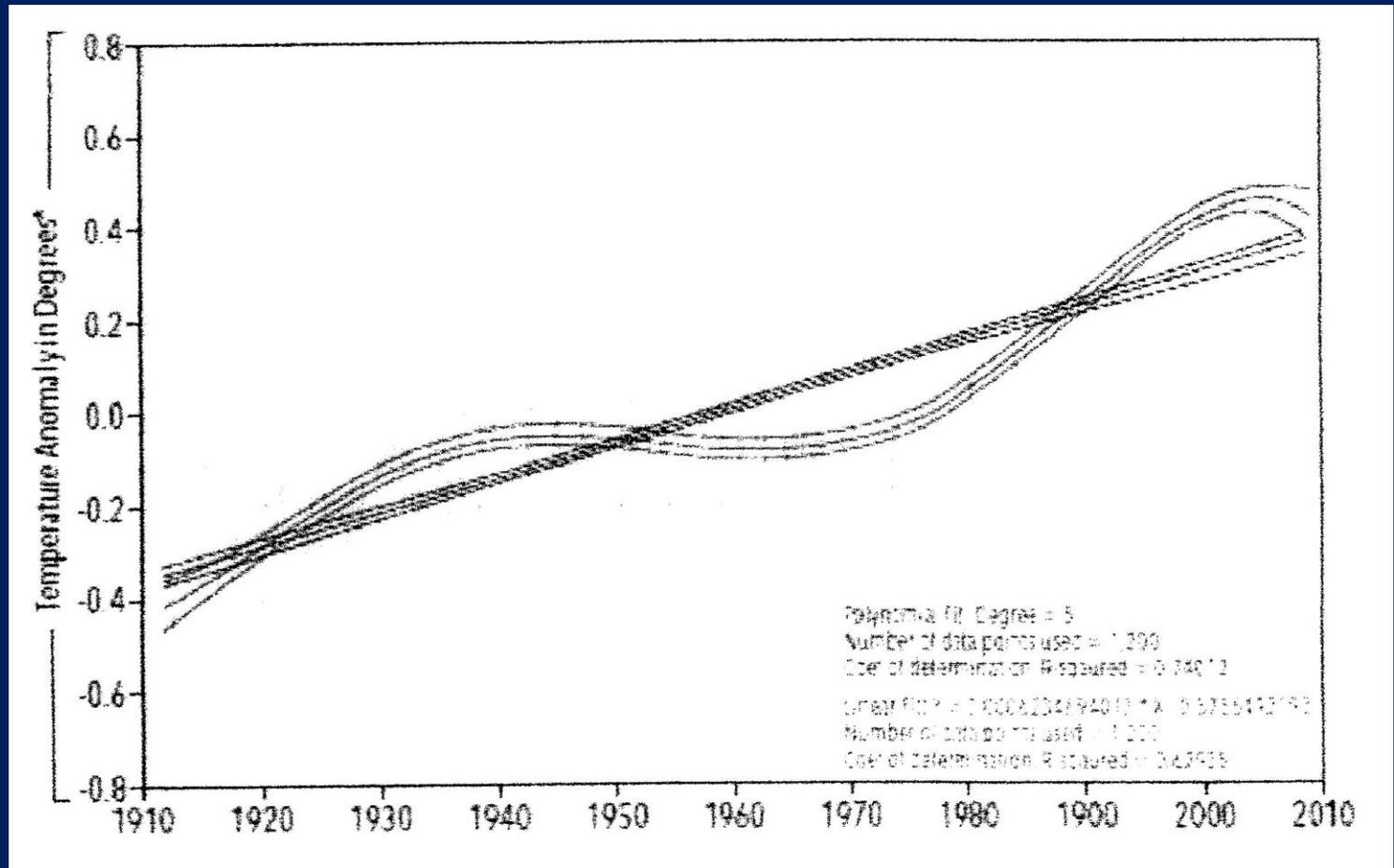


20th Century Temperatures

This graph shows that global temperature has risen about 1 degree C. during the last century.

Temperature rose steadily beginning around 1900 and continued until about 1940. Temperature leveled off with no further rise until 1970 when temperature again rose until about 2000.

Temperature has remained steady until 2015.



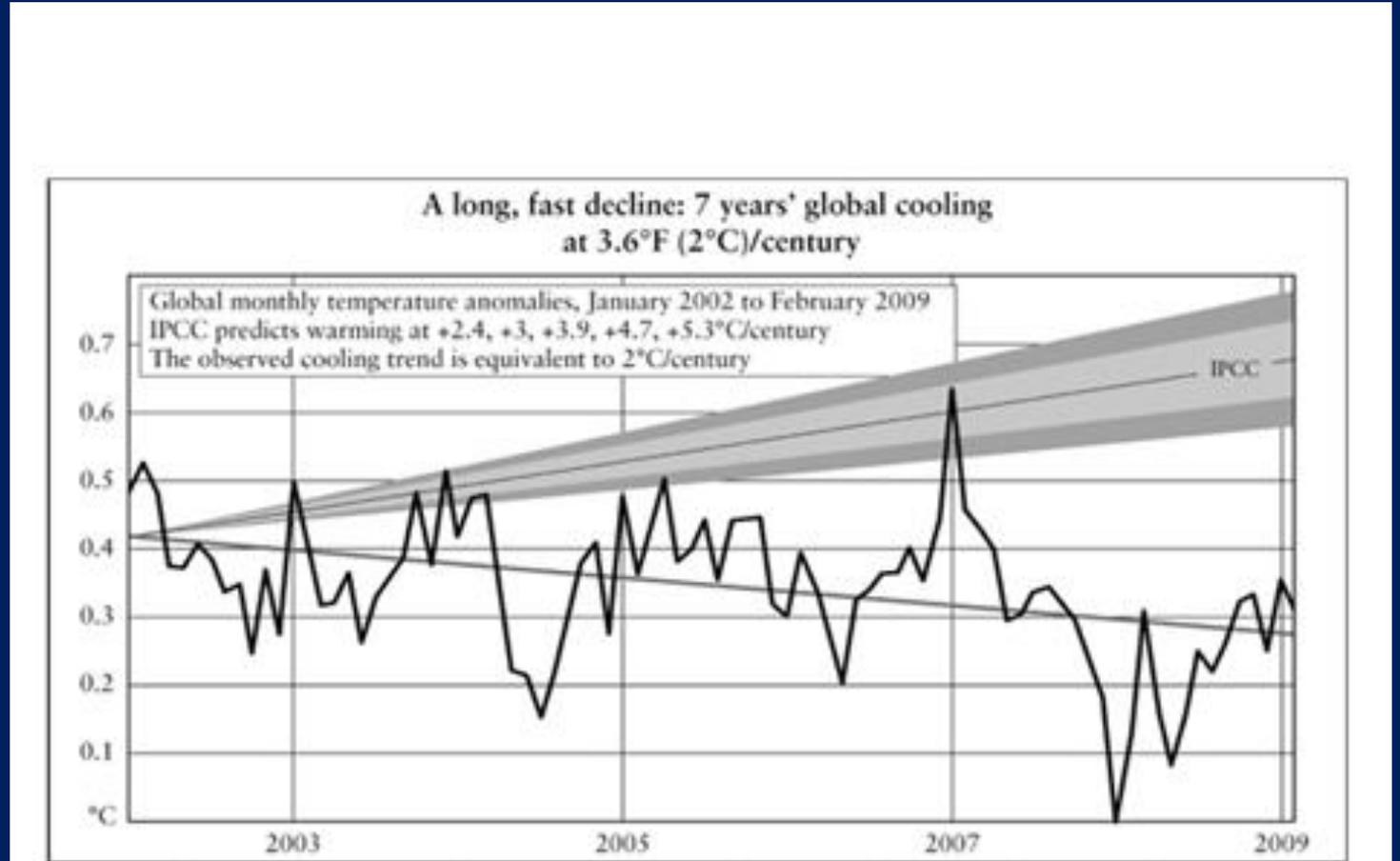
Are
Computer Forecasts
Reliable?

Many factors affect climate, but current computer models do not simultaneously take them all into account.

IPCC Predictions versus Actual Temperatures

This figure compares IPCC computer predictions with seven years of actual temperature data.

The computer models show a steady increase of temperature whereas temperature data show no increase.



Are The GWA Allegations Valid?

CO₂ levels have risen 30 percent in the last 150 years.

Yes, the atmospheric CO₂ concentration has risen from 270 ppm to about 370 ppm, a rise of 100 ppm.

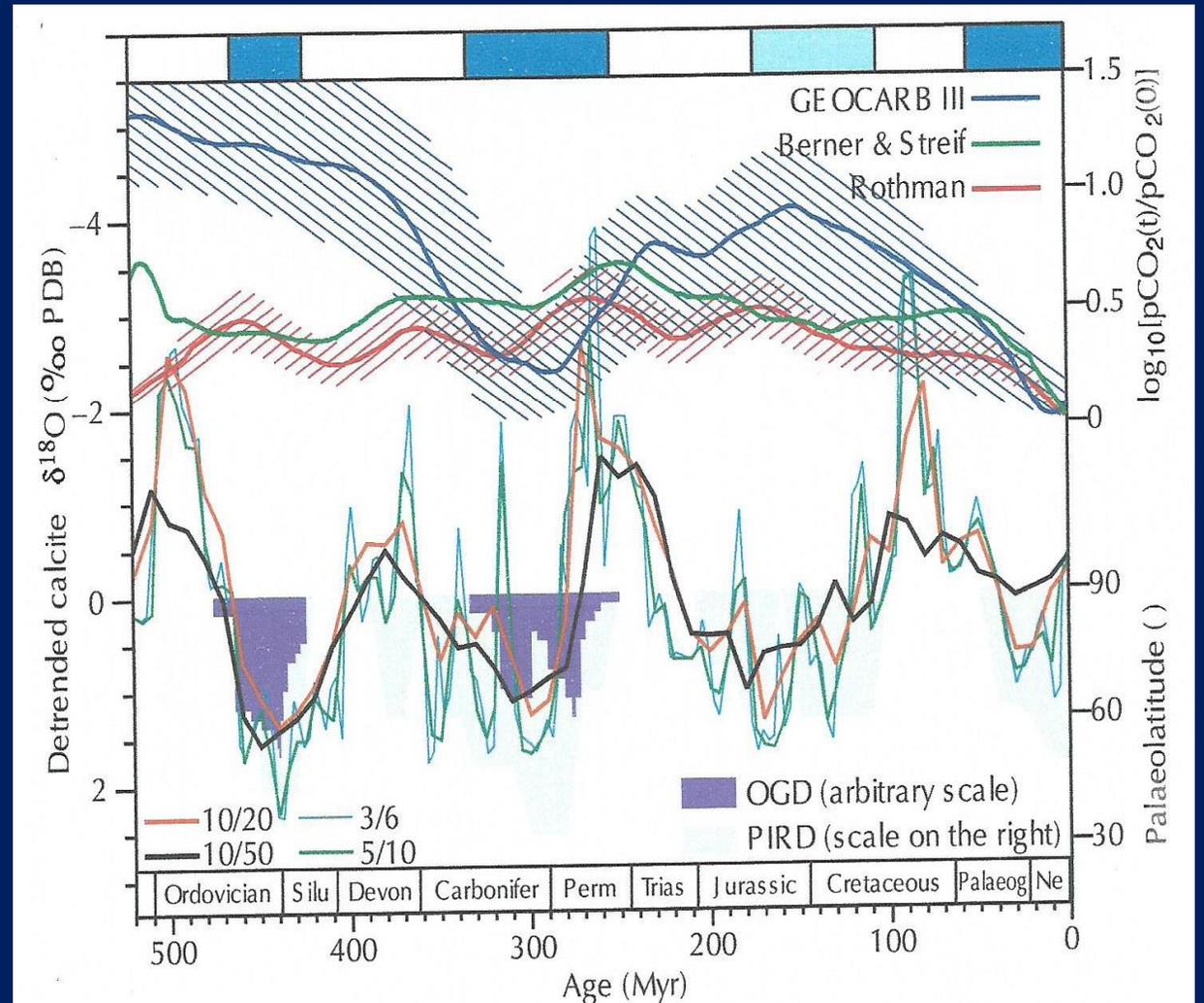
But, let's look at this increase in light of the total atmosphere.

10,000 ppm = 1% and so a rise of 100 ppm is 0.01%.

Doesn't seem like much of an increase, but does it matter?

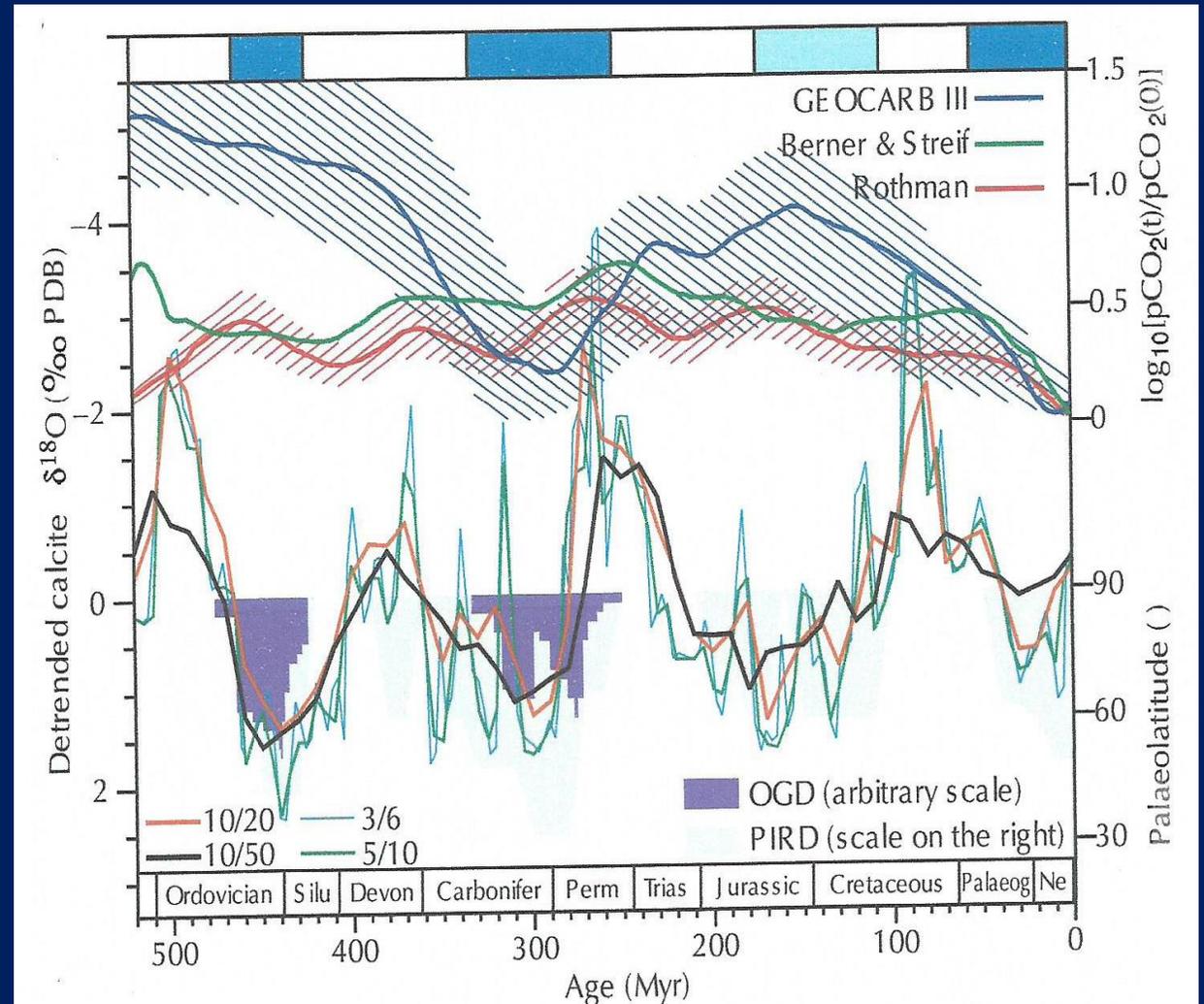
Are The GWA Allegations Valid?

Researchers Veizer and Shaviv
(Celestial Drivers of Phanerozoic
Climate p 4-10, Geological
Society of America 13 (2003)) found
little correlation between Earth's
climate and CO₂ levels over 500
million years.



Much Higher CO₂ Levels in The Past

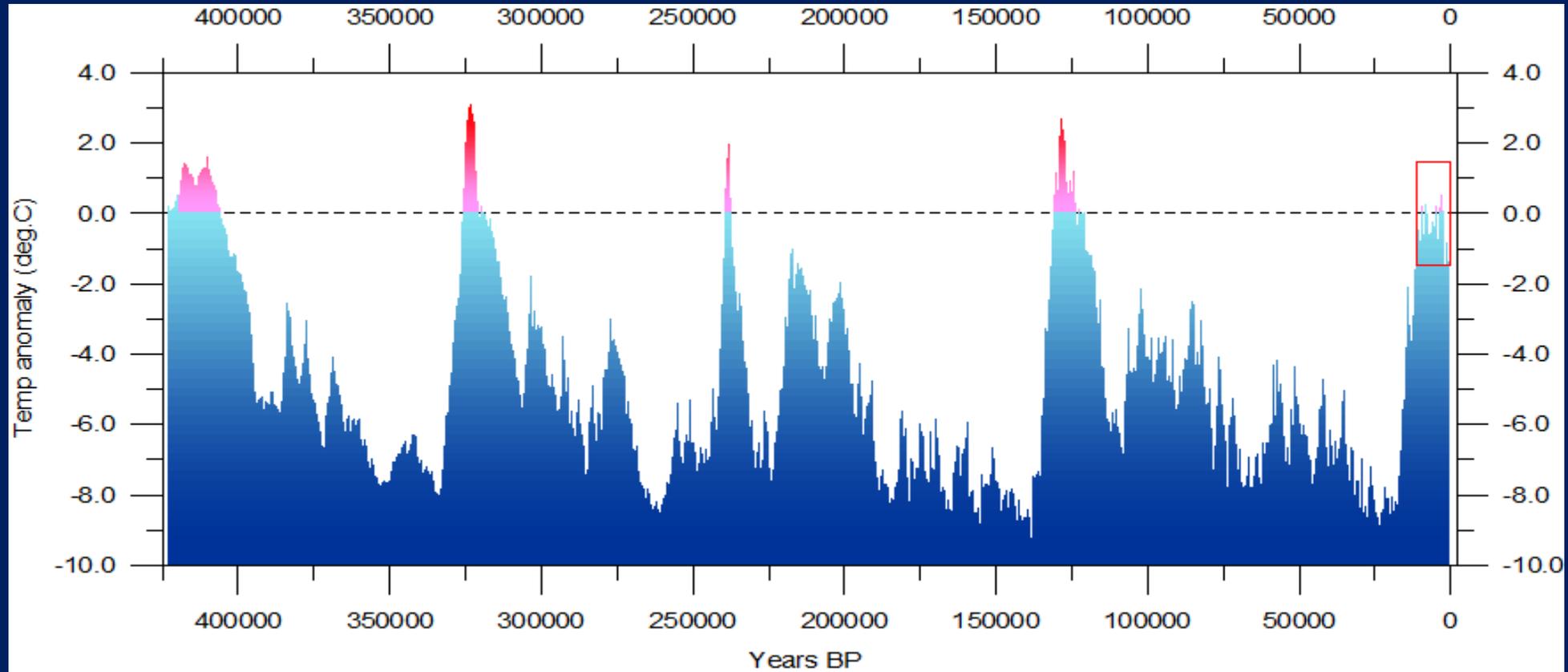
They note that CO₂ levels have been as much as 18 times (6,600 ppm) higher than today during the 500 million year study period and were 10 times (3,700 ppm) higher than today during the frigid Ordovician glacial period about 480 million years ago.



Climate Cycles

1. 100,000 year Ice Age cycle
2. 1,500 year cycle
3. Cosmic ray cycle
4. 11 year sunspot cycle

100,000 Year Ice Age Cycle



Earth's 1500 Year Climate Cycle

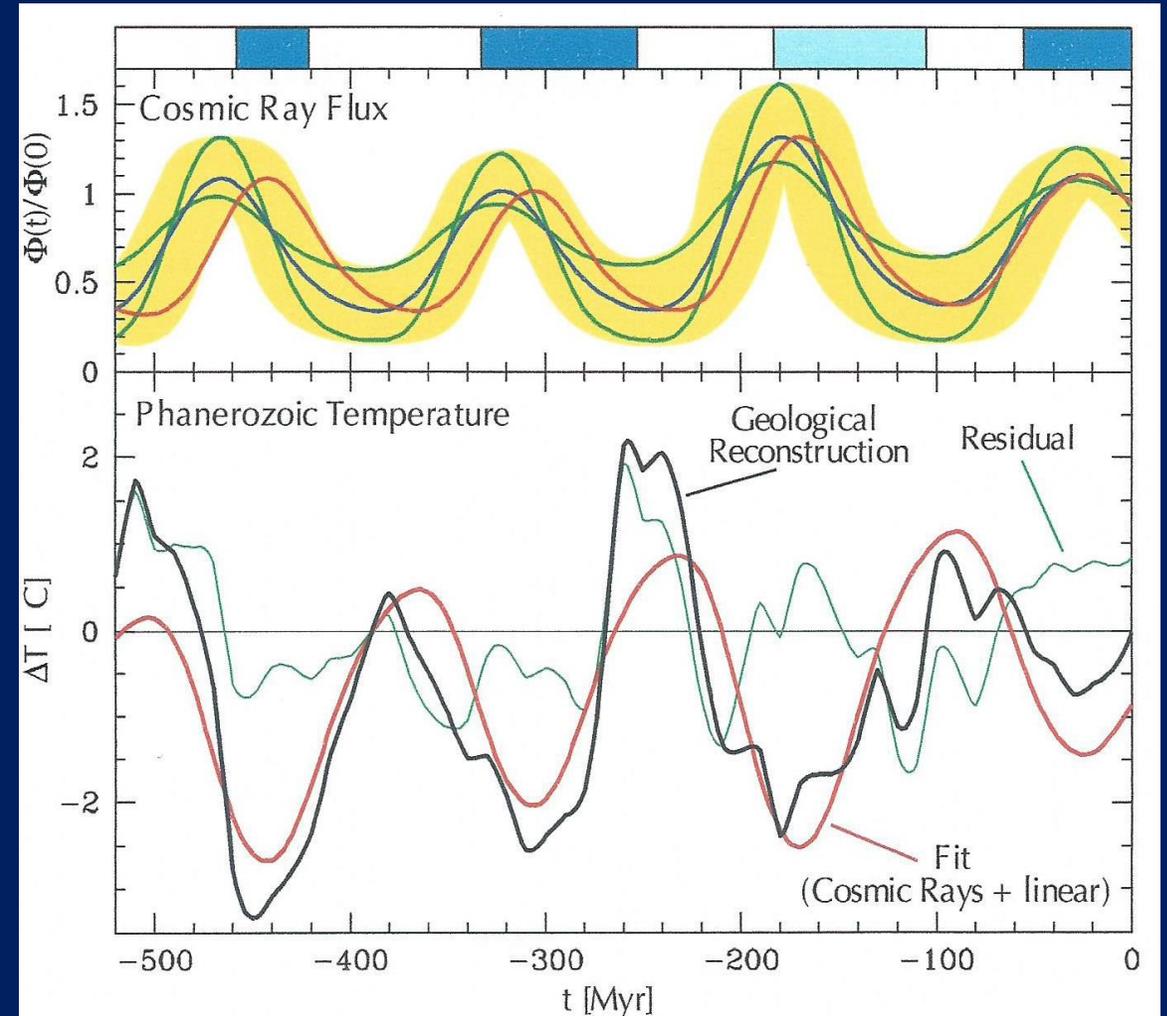
Scientists have discovered 1500 (+/- 500) year climate cycles that operate during interglacial periods where temperatures fluctuate significantly.

Three cycles have occurred in modern times:

1. A cold period began in about 750 BC and lasted to around 200 BC. A period named the Roman Warming followed until about 600 AD. (1350 years)
2. Beginning toward the end of the Roman Warming period, the Dark Ages cold period began in about 440 AD and lasted until about 900 AD. Then, the Medieval Warming Period began and lasted until about 1500 AD. (1060 years)
3. The Little Ice Age (Phase One) began in about 1300 and went to 1550. Phase Two started in 1550 and went to 1850. We are now in the Modern Warming period which may have a little ice age around 2280 +/- 500 years.

Cosmic Rays Lower Temperatures

There is an inverse relationship between cosmic rays and temperatures.



Sunspots Lower Sun's Output

There is an inverse relationship between the number of sunspots and amount of radiation emitted (11 year cycle).

Sunspots are large black areas on the Sun's surface that block emission of radiation which lowers amount of radiation received by Earth.

Are The GWA Allegations Valid?

Melting ice will inundate coastal areas.

If every bit of the Arctic Ocean ice cap melted, the sea level would rise 0 millimeters.

Water expands when it freezes and the ice rises up above the water level. The ice displaces its weight of water and so, when the ice melts, the water occupies the space for that weight of water. The result is that there is no change in the sea level.

If the Greenland and Antarctica ice melted, the sea level would rise because the ice is on land. The good news is that even IPCC predicts it will take 7,000 years for the Antarctica ice to melt and earth is sure to have at least another little ice age before the melting is done. By the way, satellite data show no major melting is currently occurring.

Are The GWA Allegations Valid?

Millions of human deaths from warming.

Cold weather is more effective at killing people than heat waves. A USDA Study showed that from 1979 to 1997, extreme cold killed roughly twice as many Americans as heat wave.

Heat is a less and less important factor in human health as air conditioning spreads.

Global warming would raise maximum summer temperatures modestly while it would raise winter maximum temperatures significantly.

Both factors should help slightly reduce human death rates.

Are The GWA Allegations Valid?

More frequent and fiercer storms will occur.

History shows that storms are worst during cold periods.

Caribbean historical records tell us that the region had nearly three times as many hurricanes during the Little Ice Age (1701 – 1850) than during the warming years from 1950 to 1998.

A 5,000 year study of tropical hurricanes along a 1,500 km stretch of northeast Australia did not find an increase of “super-cyclones” during the Modern Warming period.

In the 19th century (Little Ice Age) there were 5 “super-cyclones” with winds over 110 mph, but none since 1899.

Are The GWA Allegations Valid?

A million wild species will be lost forever.

Most of the world's animal species' "body types" were laid down during the Cambrian period 600 million years ago. So, the major species have dealt successfully with hundreds of ice age-global warming cycles.

The Holocene Climate Optimum was warmer than the temperatures the IPCC has predicted for 2100. This period lasted for 4,000 years and ended 5,000 years ago.

Most animals migrate to more favorable areas while others adapt to the new conditions.

Individuals die, but species survive.

Are The GWA Allegations Valid?

An abrupt global cooling will occur.

Yes, it will if history is any example.

Based on the 1500 year cycle, another little ice age is likely to occur.

Based on the 100,000 year cycle, a major ice age could occur over the next 80,000 – 90,000 years

So where do we stand?

1. A 30 year warming trend ended in 1998, a major El Nino year.
2. Global temperature has not risen since 1999 and shows a slight cooling trend for 17 years.
3. The Hockey Stick graph exaggerates a modest temperature rise during 20th century.

So where do we stand?

4. The total amount of ice at the two poles is almost unchanged since satellites first measured it in 1979.

5. Sea level rise has not accelerated beyond the trend that began at the end of the last Ice Age, 12,000 years ago.

So where do we stand?

6. IPCC and EPA are making decisions with long term adverse economic impact based on questionable data and faulty assumptions (e.g. closing coal fired power plants).

7. Elitist environmentalists are using global warming as an excuse to “re-wildernize” the world.

So where do we stand?

8. Politicians are using climate change as an excuse to redistribute the wealth of developed nations out to the developing nations to achieve equality of income.
9. Many scientists have published worthless studies using poor methodology and “cherry picked” data to fit their agenda.

So where do we stand?

10. Scientists who want to conduct research that may show global warming is not a major threat cannot get funding.

11. Media outlets are biased against publicizing information showing CO₂ concentration and temperature rises are not major threats.

So where do we stand?

13. Environmental organizations use global warming scare tactics to aid fund raising.

14. Fossil fuels will continue to be the major source of world energy.

15. Efforts are needed to move toward carbon-free electricity and hydrogen gas production.

So where do we stand?

16. Maintaining status quo is impossible.

17. Mother Nature has the last word.

18. Study the past to predict the future.

19. Don't sweat global warming allegations.

For More Information

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Suggested Reading

Global Weirdness – Severe Storms, Deadly Heat Waves,
Relentless drought, Rising Seas and the Weather of the Future
(Climate Central)

Climate: The Counter Consensus (Professor Robert M. Carter)

The Greatest Hoax (Senator James Inhofe)

The Moral Case for Fossil Fuels (Alex Epstein)

Climate Change: The Facts 2014 (Various authors)

Dark Winter (John L. Casey)

The Global Warming Disaster (Christopher Booker)

Climate Shock (Gernot Wagner & Martin Weitzman)

Suggested Reading

Is The Temperature Rising? (S. George Philander)

The Sky's Not Falling! Why It's OK to Chill about Global Warming (Holly Fretwell)

Unstoppable Global Warming S. Fred Singer & Dennis T. Avery)

Cool It – The Skeptical Environmentalist's Guide to Global Warming (Bjorn Lomborg)

The Really Inconvenient Truths – Seven Environmental Catastrophes Liberals Don't Want You To Know About – Because They Helped Cause them (Iain Murray)

Climategate – A Veteran Meteorologist Exposes the Global Warming Scam (Brian Sussman)

The Long Summer – How Climate Changed Civilization (Brian Fagan)

The Politically Incorrect Guide to Global Warming and Environmentalism (Christopher C. Horner)