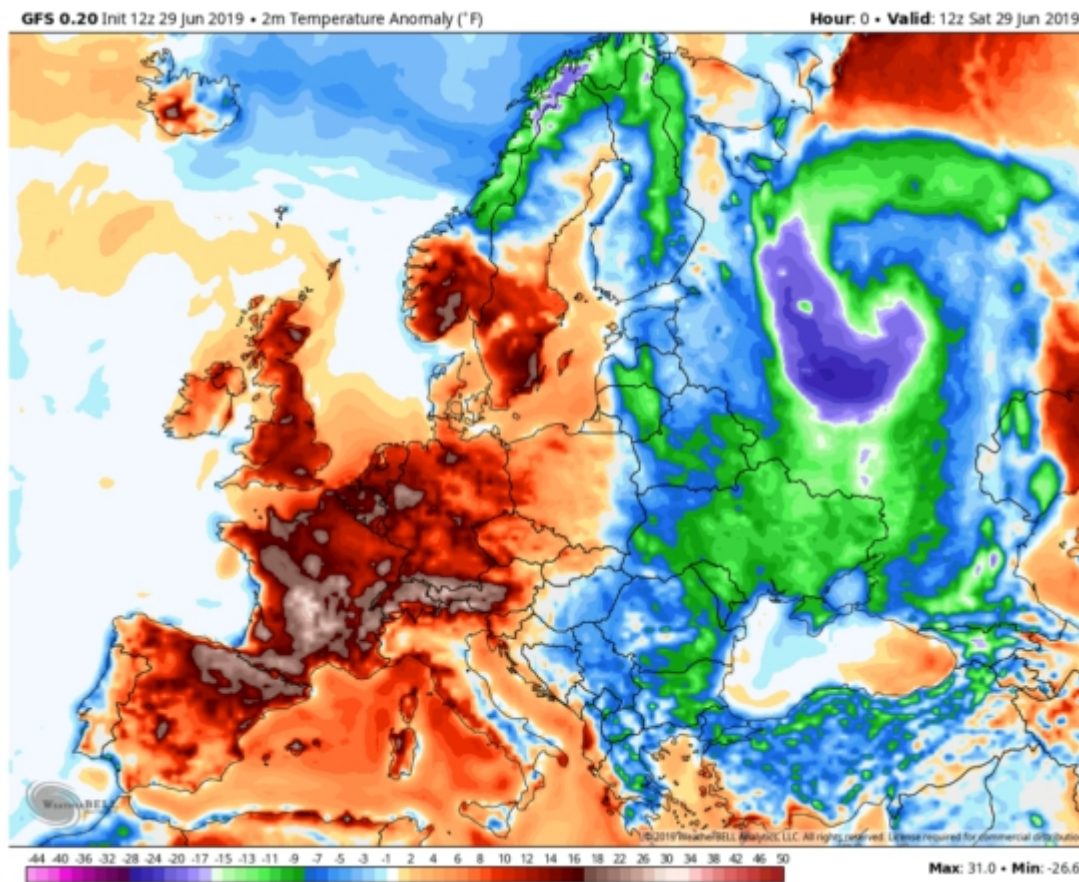


# Science or Superstition ??





# The Problem ?



**Western Europe was very HOT  
at the end of June into July**

**BUT nearby Eastern Europe  
Was unusually COLD**

**WHY ?**

**Global Warming ?**

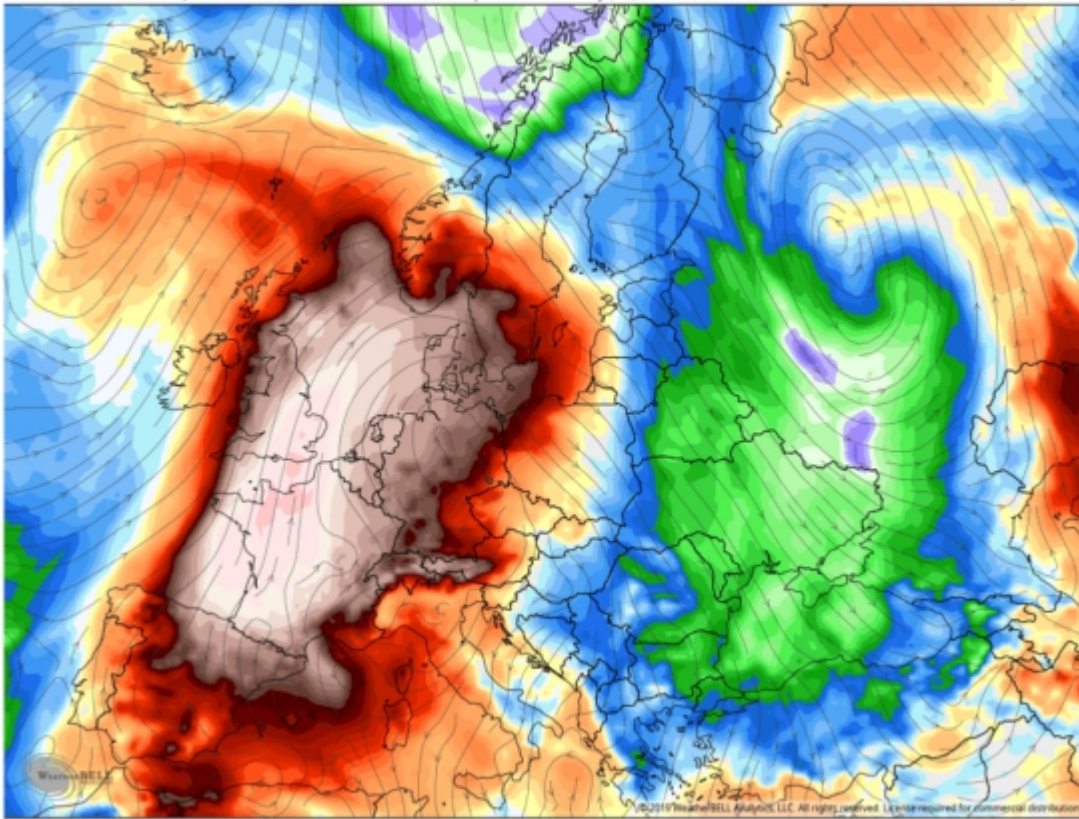
**Heavens NO !**



# Just a 'typical' Weather Pattern

GFS 0.25° Init 12z 29 Jun 2019 • 850mb Streamlines and Temperature Anomaly (°C)

Hour: 0 • Valid: 12z Sat 29 Jun 2019



**It's just the Jet Stream -**

**Circumpolar Jet Stream buckles, allowing hot Saharan Air Layer to move north and cold Arctic air to flow south**

**(Analysis for 850 mb level or about 5,000 feet on June 29)**

**Huge temperature variations are perfectly normal, even if they produce temperatures far from normal**



# Central Oregon Federation of Republican Women

*A dangerous misuse of science:*

## The Great Climate Swindle

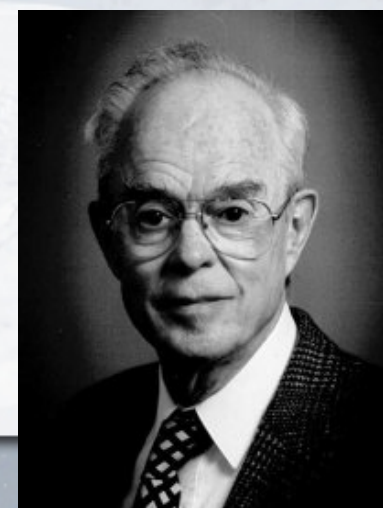
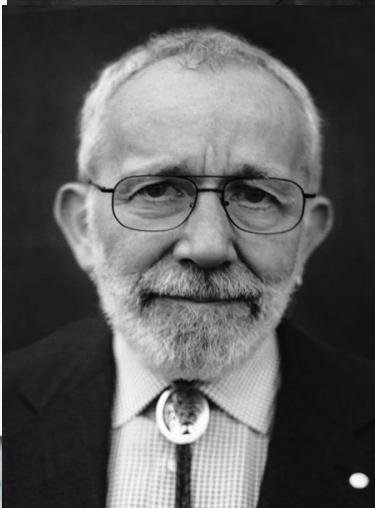
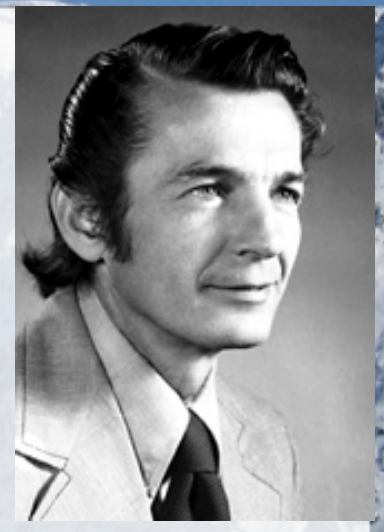
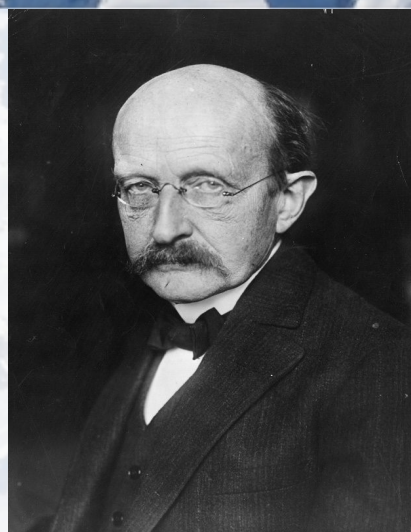
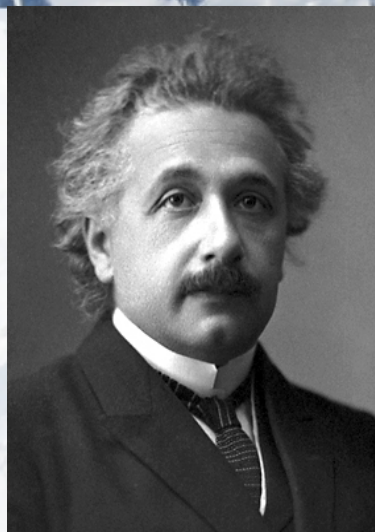
July 11, 2019

**Gordon J. Fulks, PhD Physics, University of Chicago**

**Contact:** [gordonfulks@hotmail.com](mailto:gordonfulks@hotmail.com)



# The Faces of Science





# NOT the Faces of Science

**Badly Misusing Science for Political Goals**





# Ultimately this is not about Science This is about POLITICS



“The whole aim of practical politics is to keep the populace alarmed (and hence clamorous to be led to safety) by menacing it with an endless series of hobgoblins, all of them imaginary.”

“The urge to save humanity is almost always a false front for the urge to rule.”

- H. L. Mencken



# Past Scare Tactics have been Spectacularly Wrong!

Paul Ehrlich (April 1970):

“Population will inevitably and completely outstrip whatever small increases in food supplies we make.”

**“The death rate will increase until at least 100-200 million people per year will be starving to death during the next ten years.”**



# “Tories Are Lost And Could Become Extinct In This Climate Of Hysteria”



- **Greta Thunberg** has made a huge impact on the fight against climate change with relentless protesting in Europe.
- Protests paralyze London.
- UK Parliament declares “Climate Emergency” boosting Labour Party.



# In Coal We Trust

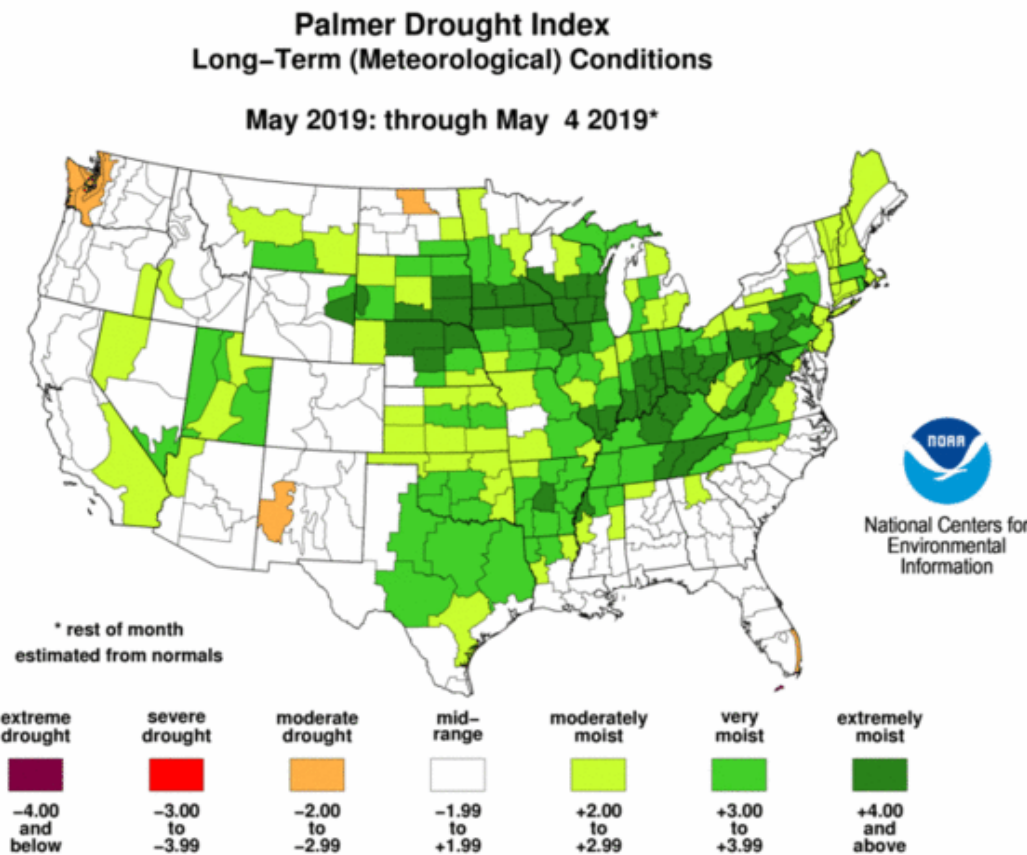
- **Australian Voters back PM Morrison's faith in fossil fuels! Labor/Greens lose big time.**
- Climate Doomsday Cult members fear human extinction

Professor **Michael Mann**:

- *“We have lost Australia for now.”*
- *“A coalition of a small number of bad actors now threaten the survivability of our species”*



# WA Governor Inslee declares Drought Emergency



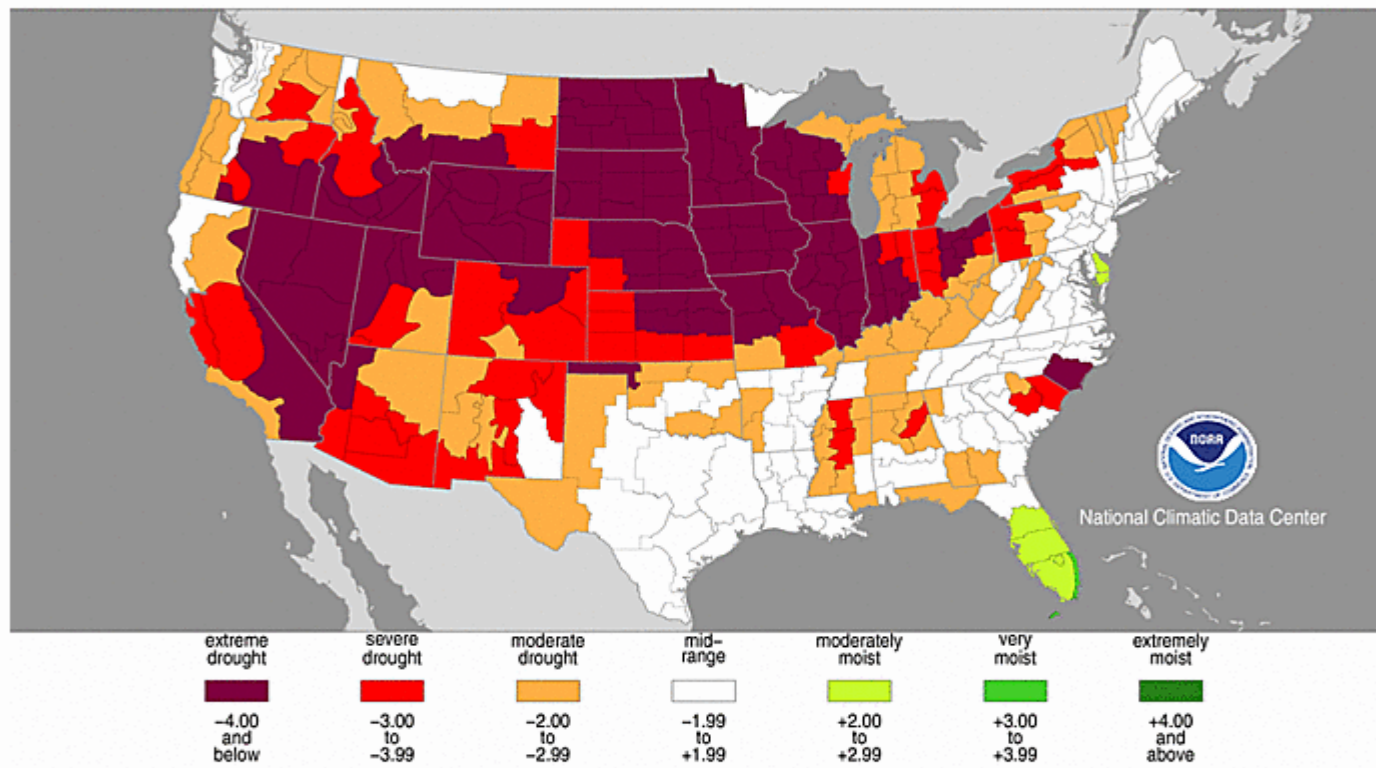
**Lowest incidence  
of drought  
in this Century**

**(typically,  
one third of USA  
is suffering  
from drought)**



# May 1934 was much different

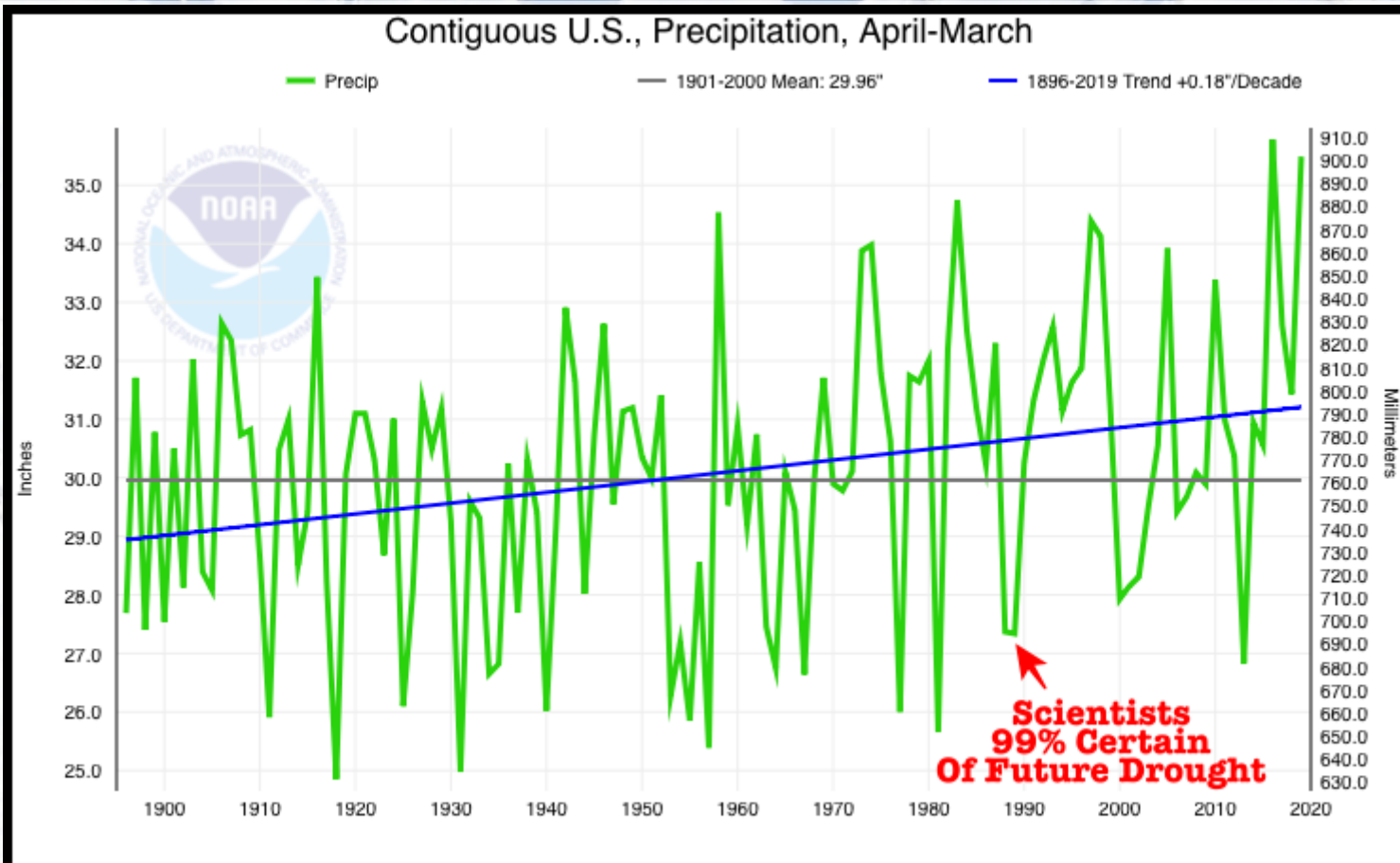
Palmer Drought Severity Index  
May, 1934



**This is what  
Severe Drought  
really  
looks like**



# James Hansen was “99% certain” we faced Severe Drought





# National Geographic Society sees climate disasters everywhere



**“Warming Lakes:**

**Climate Change and Variability  
Drive Low Water Levels on the  
Great Lakes”**

**(Purported Lake Michigan  
bottom shown in 2012)**

**TOTAL NONSENSE !**

**Lake levels are *cyclical*.**



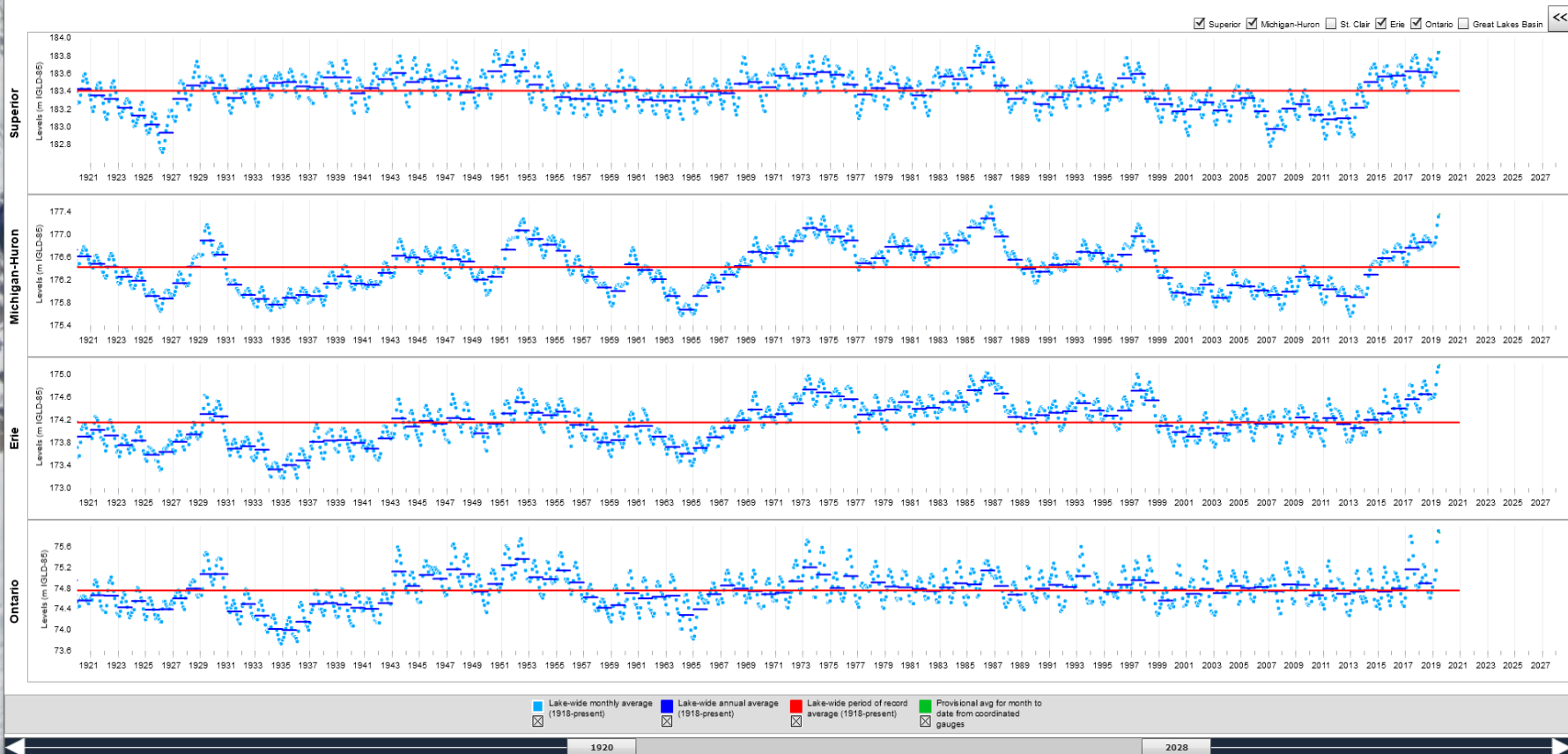
# Great Lakes at Record Highs

## The Great Lakes Dashboard (BETA)

Sun Jul 7 2019 02:00:10 PM

File View About

Time series (1800 - 2105) Multi-centennial (3000 B.C. - 2105 A.D.)



Superior

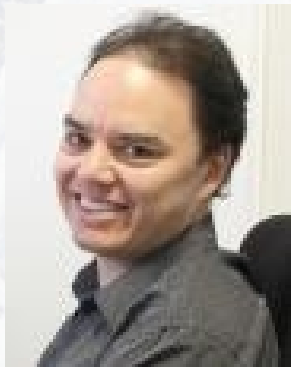
Michigan/  
Huron

Erie

Ontario



# The **Big Lie** that sells Climate Hysteria



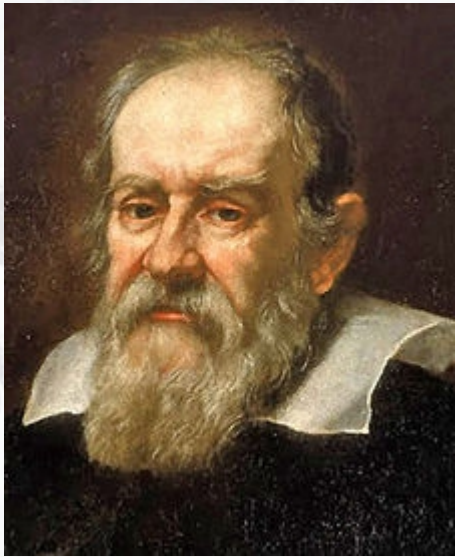
**John Cook**, “PhD candidate in cognitive psychology, researching how people think about climate change.”

He has become the chief propagandist for the scam.

**“There is 97 percent agreement among climate scientists that humans are causing global warming.”**



# Individuals trump Authority



"In questions of science,  
the authority of a thousand  
is not worth the humble reasoning  
of a single individual."

Galileo Galilei (1564-1643)



# The Humble Reasoning

- **TWO** major new developments greatly bolster the case for skepticism.
- **THE BOTTOM LINE:** *Virtually everything that Alarmists argue is substantially wrong!*
- Former President of the National Academy of Sciences Ralph Cicerone on catastrophe:  
**“We don't have that kind of evidence.”**



# WHAT IS SCIENCE?

## Science is PURE Logic and Evidence

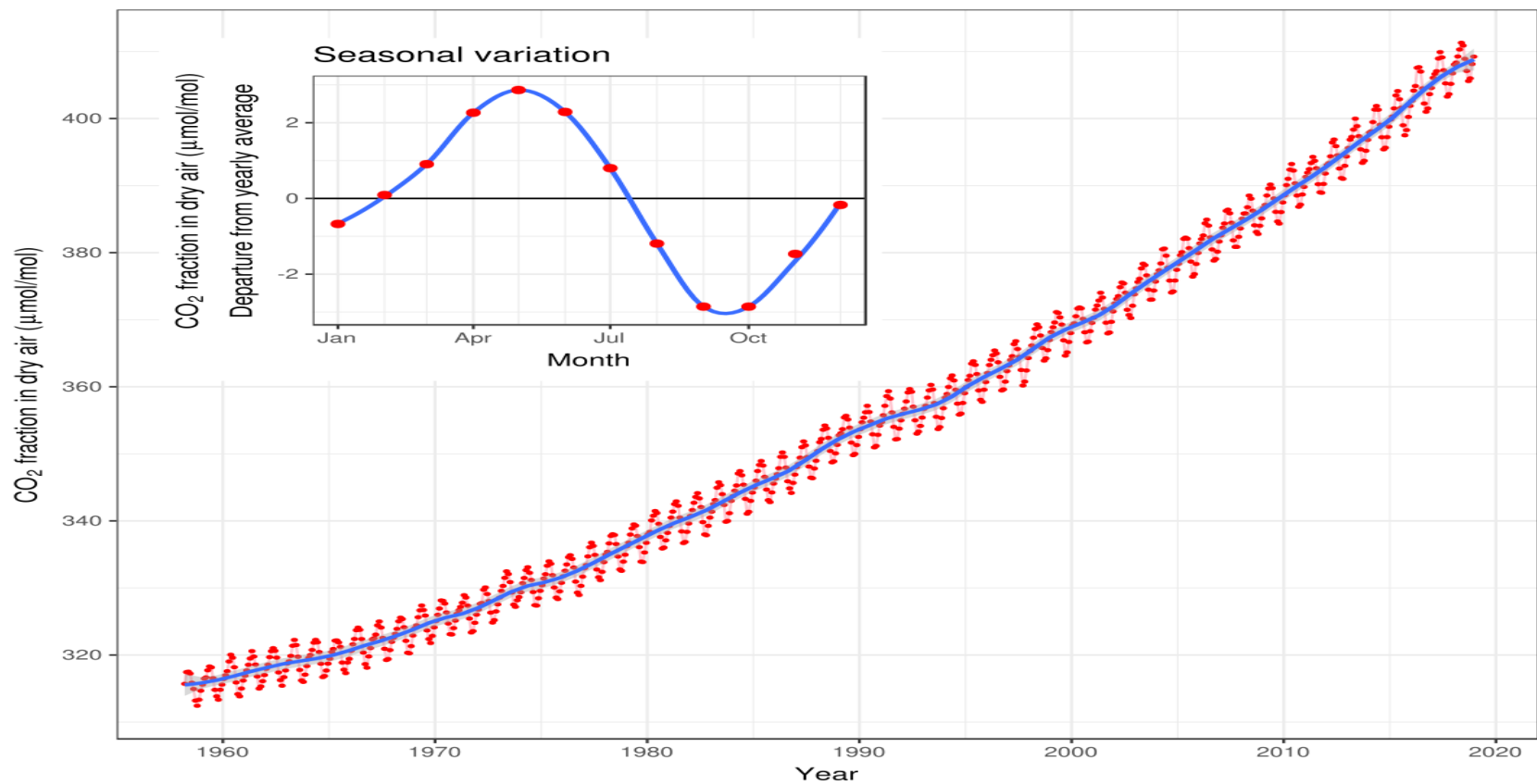


The Royal Society's motto 'Nullius in verba' roughly translates as '**take nobody's word for it**'. It is an expression of the determination of Fellows to withstand the domination of authority and to verify all statements by an appeal to facts determined by experiment.



# The Problem ?

Monthly mean CO<sub>2</sub> concentration  
Mauna Loa 1958 - 2018

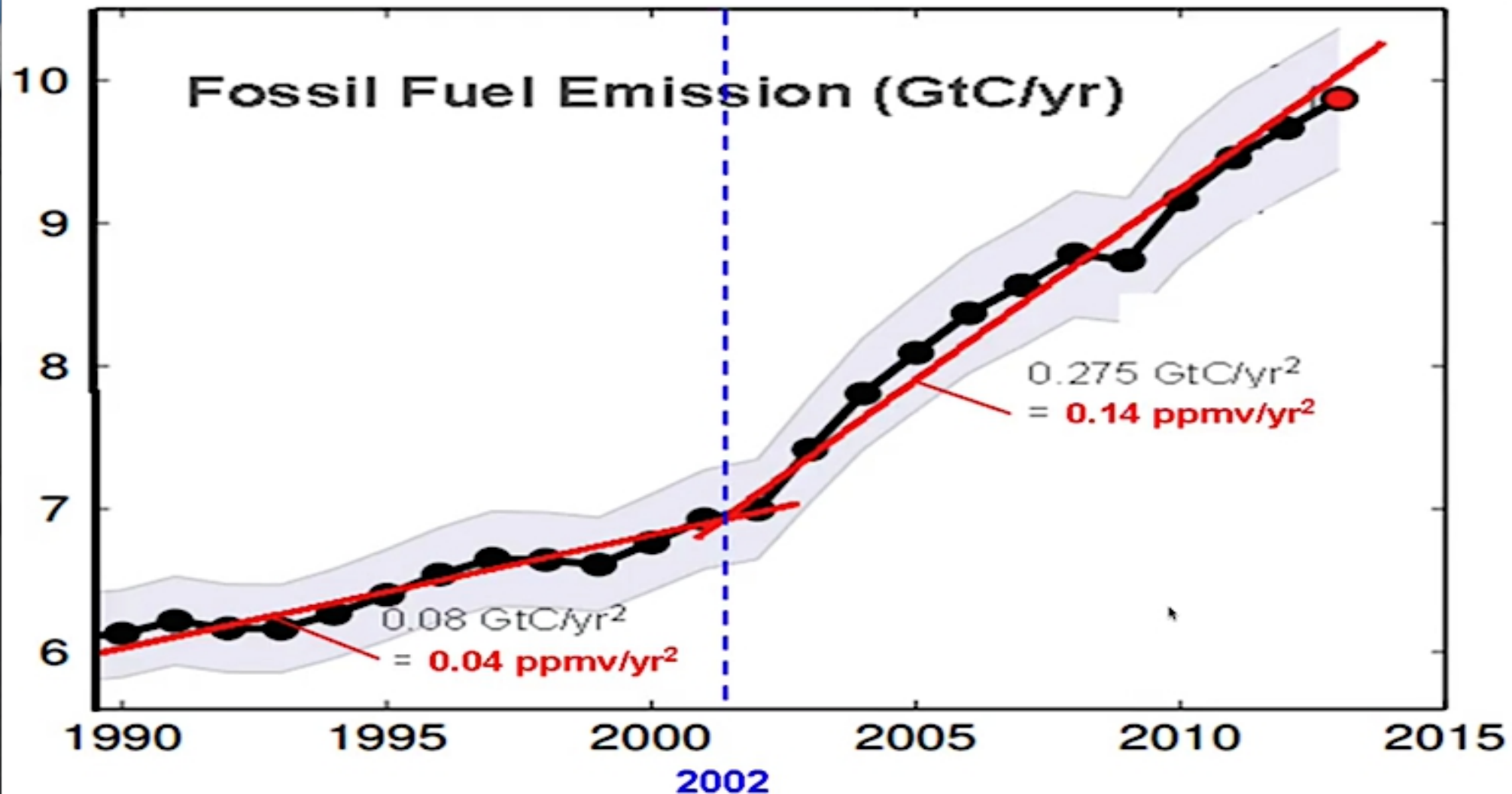


Data : R. F. Keeling, S. J. Walker, S. C. Piper and A. F. Bollenbacher  
Scripps CO<sub>2</sub> Program (<http://scrippsco2.ucsd.edu>). Accessed 2019-01-06



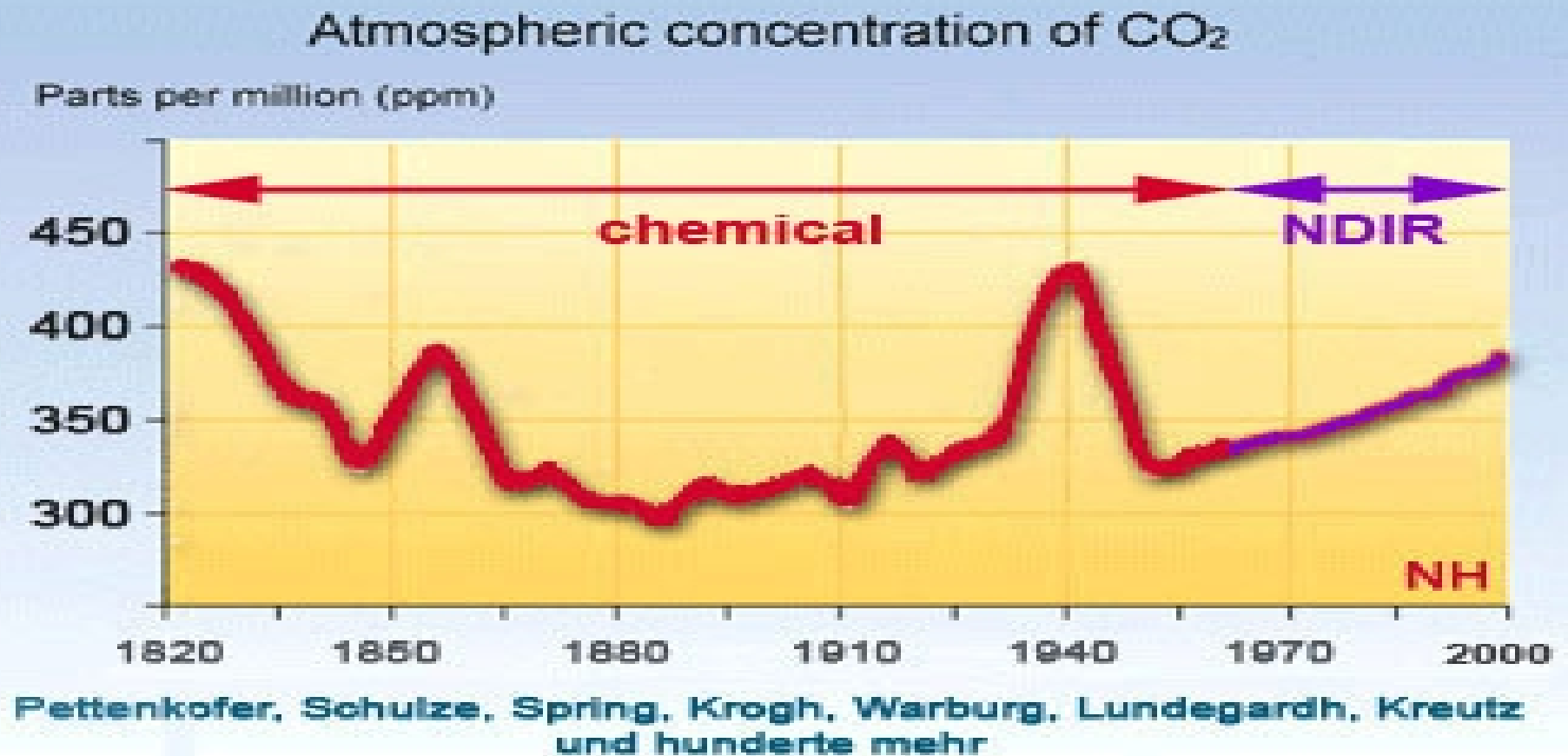
# The Chinese CO2 Experiment from 2002

How did the Mauna Loa Measurements react?



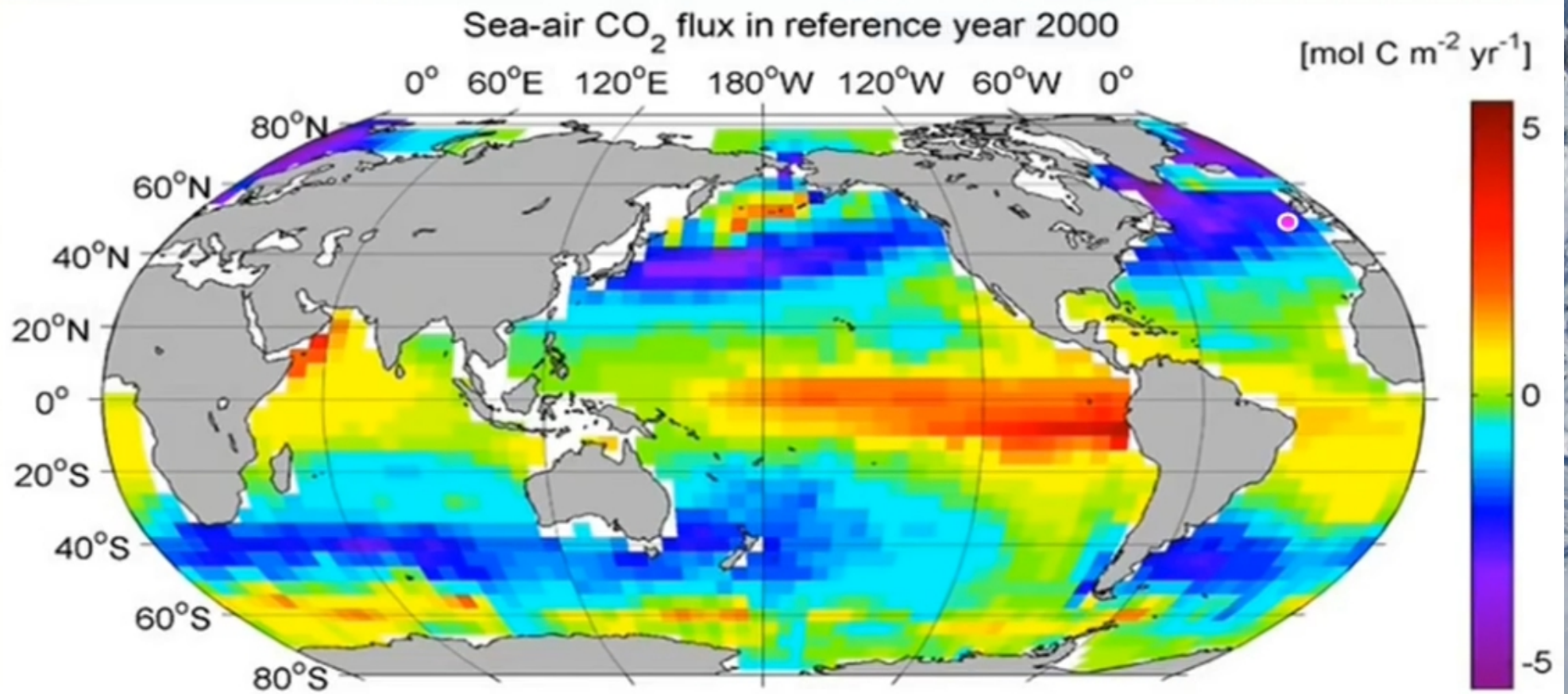


# The history of atmospheric CO<sub>2</sub> (from chemical measurements)





# Modeled CO<sub>2</sub> Emissions over oceans

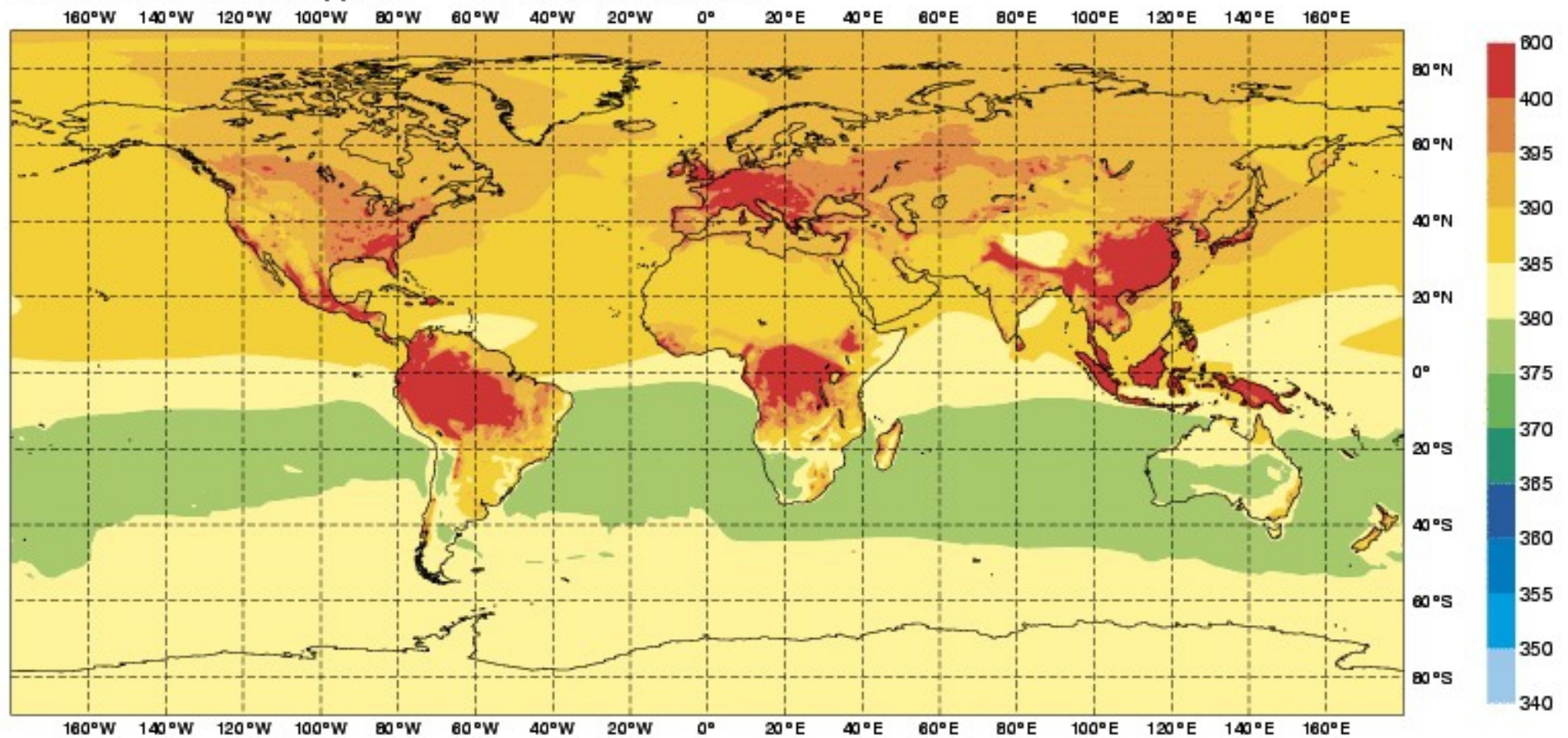




# Satellite Measured CO2 emissions

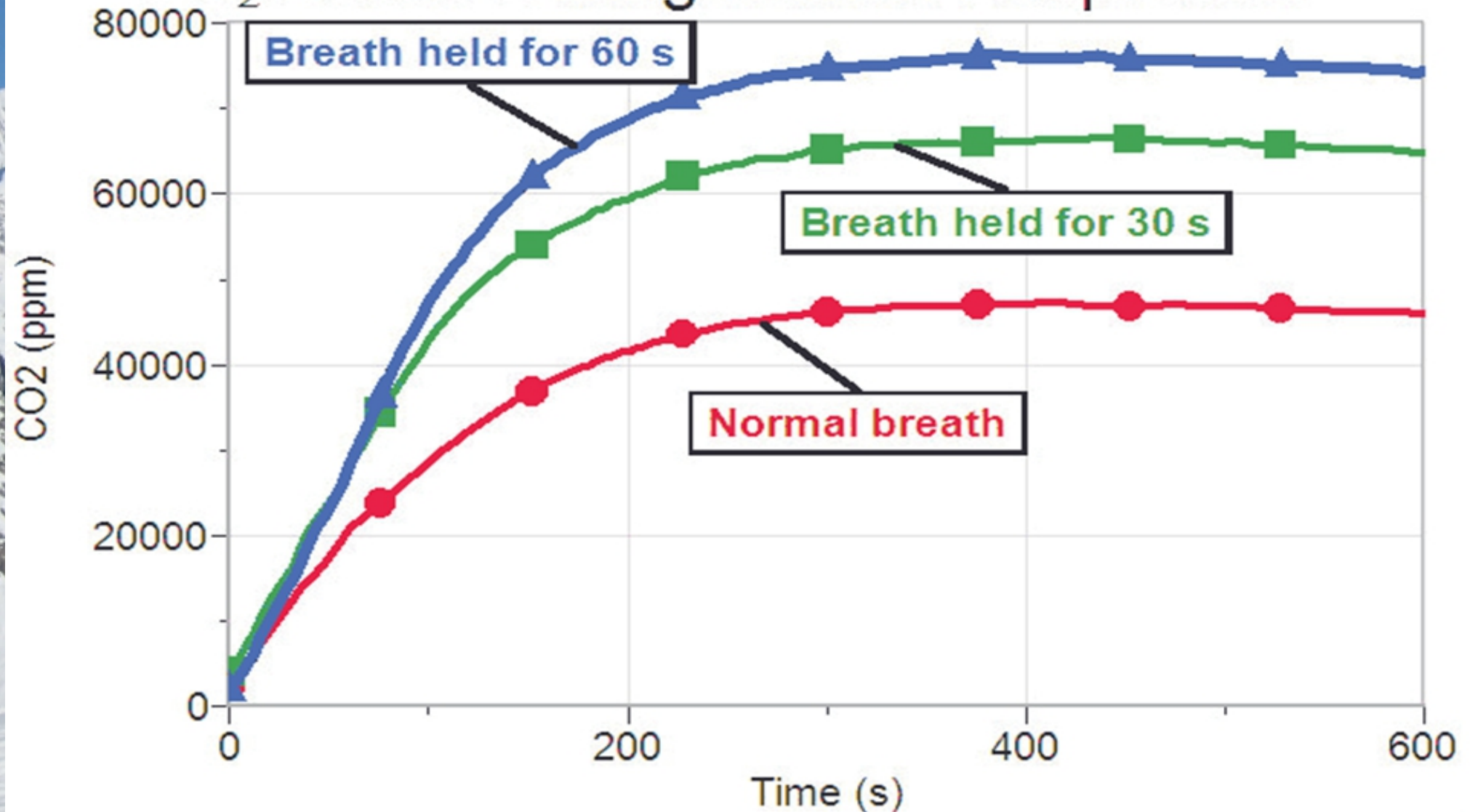
MACC Delayed mode Global Monthly Mean March 2011

Surface Carbon Dioxide [ ppmv ] mean: 385.93 max: 544.47



# CO<sub>2</sub> is not a pollutant

## CO<sub>2</sub> Levels During Human Respiration

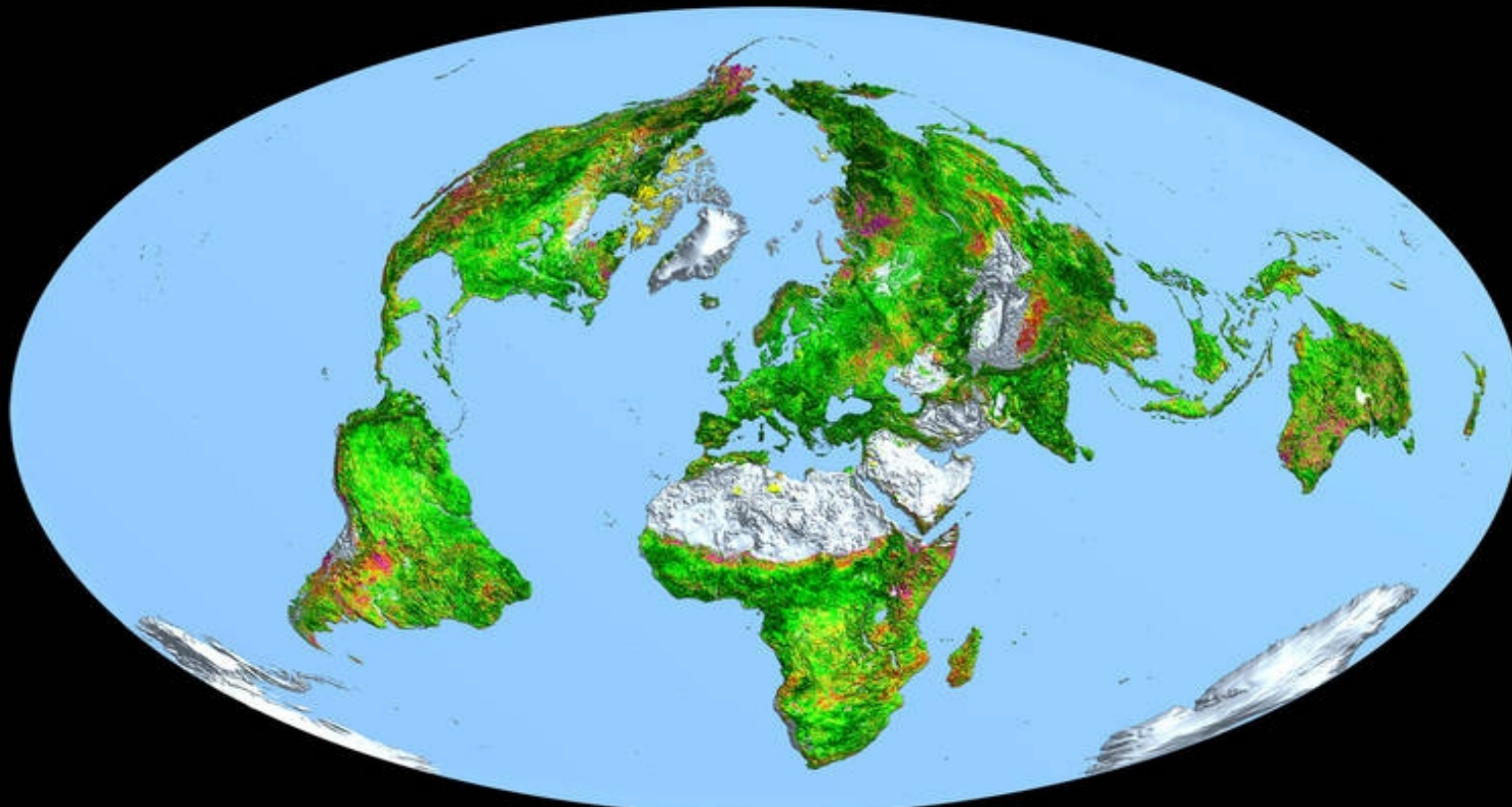




# CO2 is remarkably **BENEFICIAL**

- 1) Major **'Gas of Life'**
- 2) Minor Greenhouse Gas
- 3) **Warmer is better anyway!**
- 4) **At 400 ppm, near low of 200 ppm needed to support life**
- 5) **Current level helps feed mankind**
- 6) **US Navy submarines at 5,000 ppm**
- 7) **Previous levels up to 7,500 ppm**
- 8) **Humans emit 5%, Mother Nature 95%**

# The Greening of the Earth

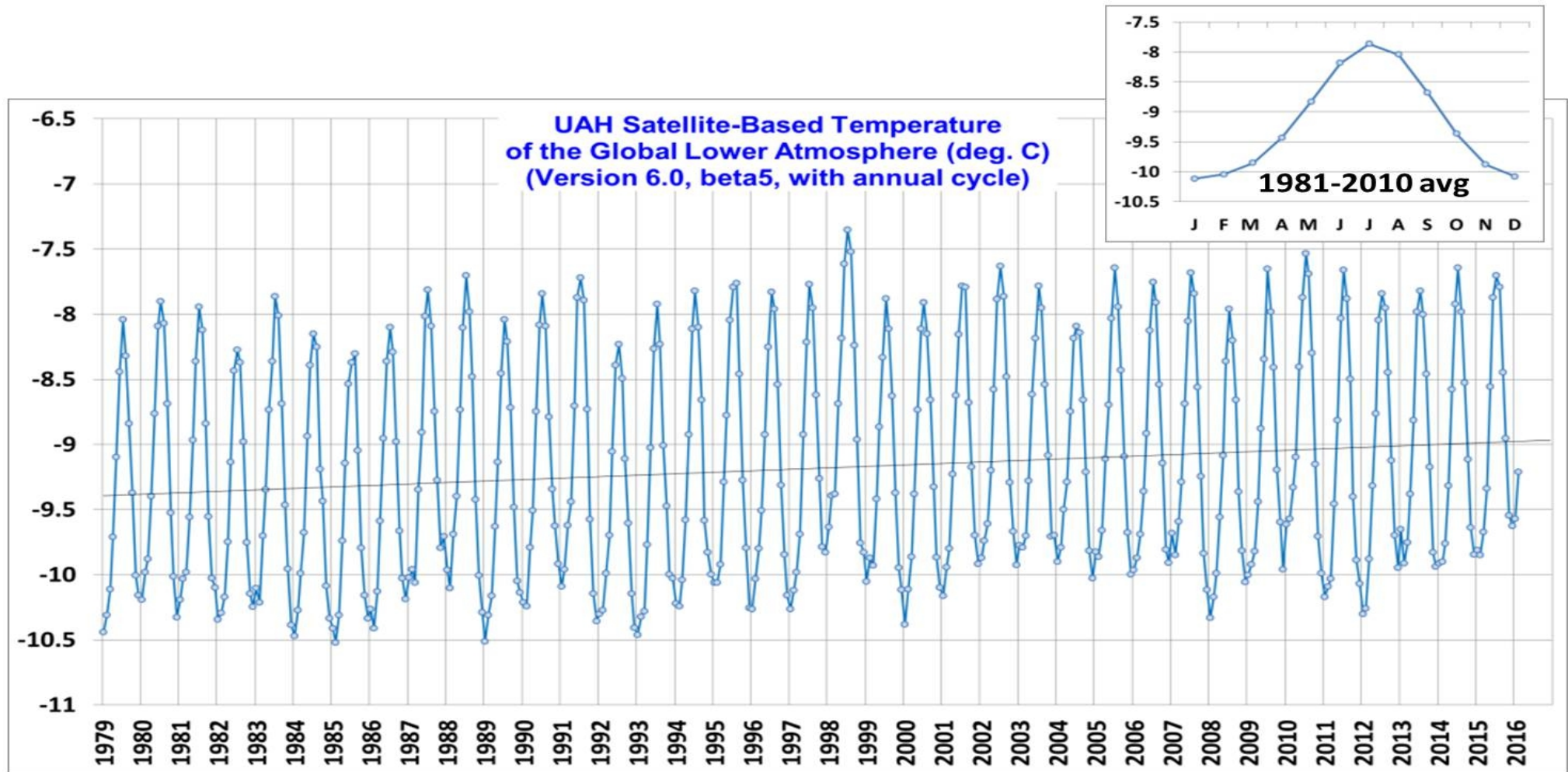


Change In Leaf Area (1982-2015)

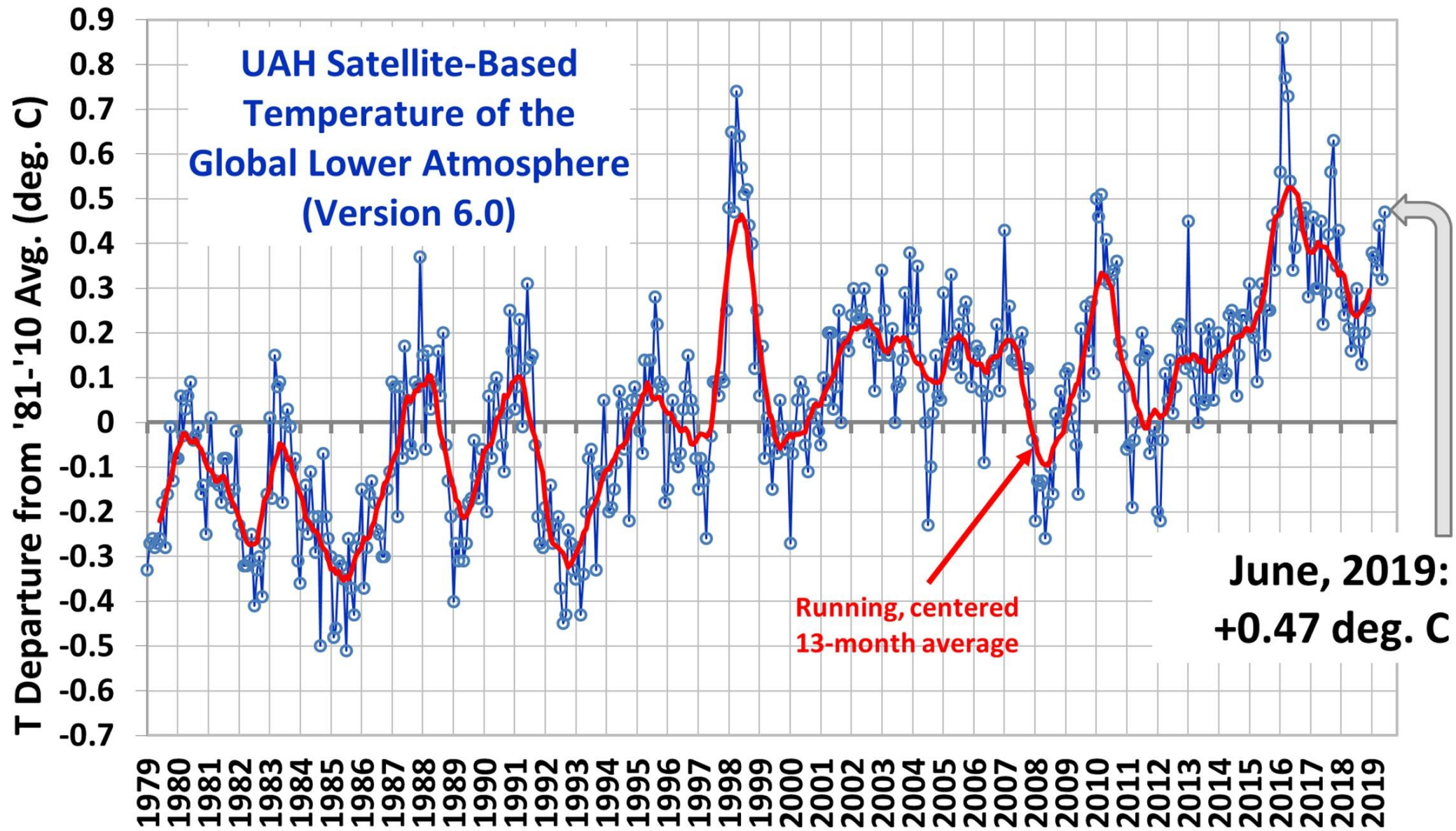




# The Gold Standard for Global Temperature

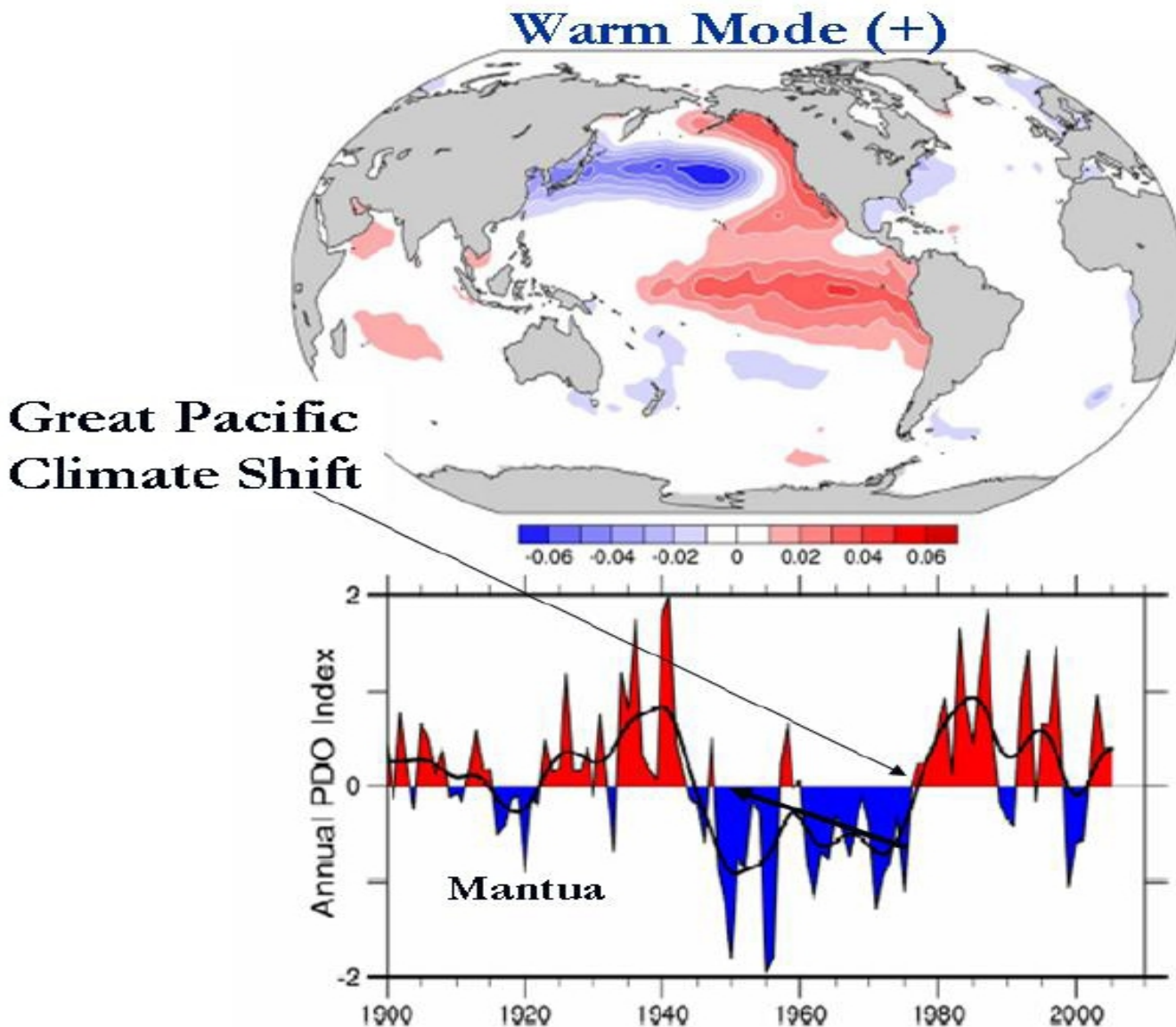


# The Problem ?





Pacific Decadal Oscillation (warm/cold water pattern) explains global temperature variations over 20<sup>th</sup> Century – Great Pacific Climate Shift occurred 1977 and 2007

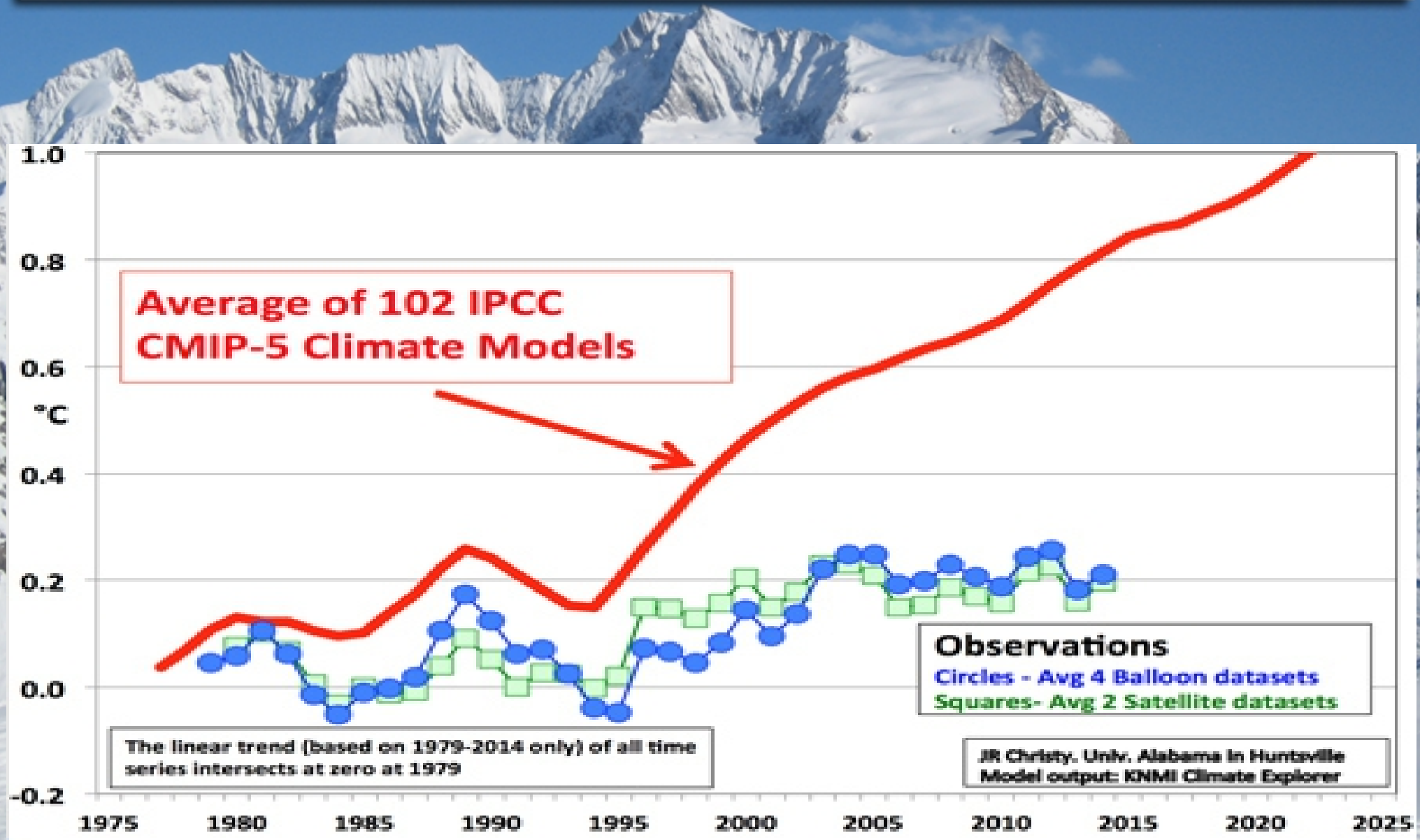


Pacific Decadal Oscillation

*Warm PDO (since 1978) favors more El Ninos*

**Nobel Laureate  
Richard Feynman**

**“If it disagrees with experiment, IT IS WRONG.  
In that simple statement is the key to science.”**





# UN Computer Simulations of Climate are Computer Games **USELESS** in Predicting the Future

Professor of Mathematical and Theoretical Physics, Gerhard Gerlich:

***“To derive climate catastrophes from these computer games and to scare Mankind to death is a crime.”***

*“It cannot be overemphasized that even if the [fluid] equations are simplified considerably, one cannot determine numerical solutions, even for small space regions and even for small time intervals. This situation will not change in the next 1000 years regardless of progress made in computer hardware. As the extremely simplified one-fluid equations are unsolvable, the many-fluid equations would be more unsolvable, the equations that include the averaged equations describing the turbulence would be yet more unsolvable, if “unsolvable” had a comparative.”*

***“Hence, the computer simulations of global climatology are not based on physical laws.”***



# Nobel Laureate in Physics Richard Feynman on Scientific Honesty



**It's a kind of scientific integrity, a principle of scientific thought that corresponds to a kind of utter honesty –**

a kind of leaning over backwards. For example, if you're doing an experiment, you should report everything that you think might make it invalid—not only what you think is right about it: other causes that could possibly explain your results; and things you thought of that you've eliminated by some other experiment, and how they worked – to make sure the other fellow can tell they have been eliminated.

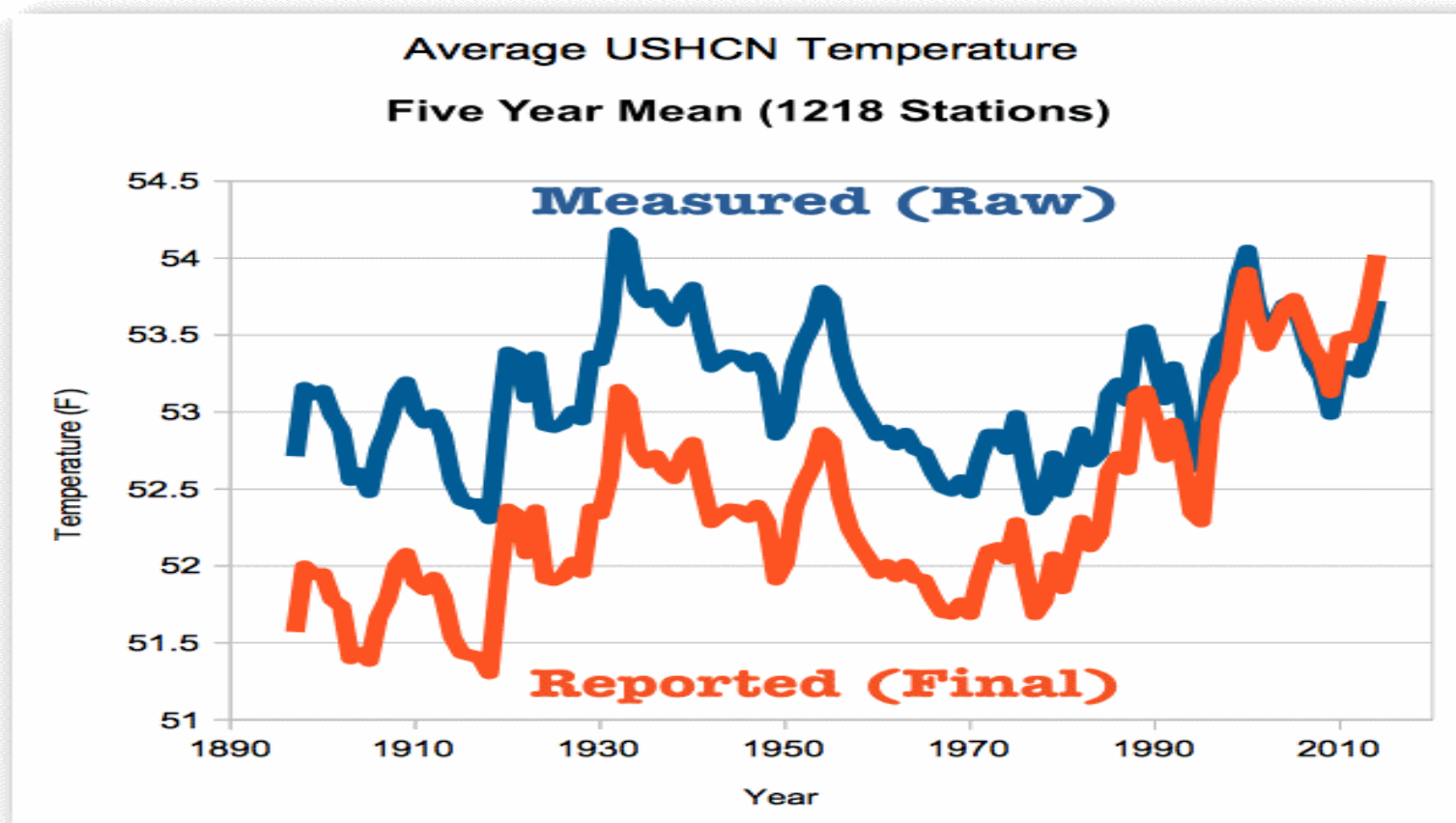
**Details that could throw doubt on your interpretation must be given,**

if you know them. You must do the best you can – if you know anything at all wrong, or possibly wrong – to explain it. If you make a theory, for example, and advertise it, or put it out, then you must also put down all the facts that disagree with it, as well as those that agree with it....

**In summary, the idea is to try to give all of the information to help others to judge the value of your contribution; not just the information that leads to judgment in one particular direction or another.**



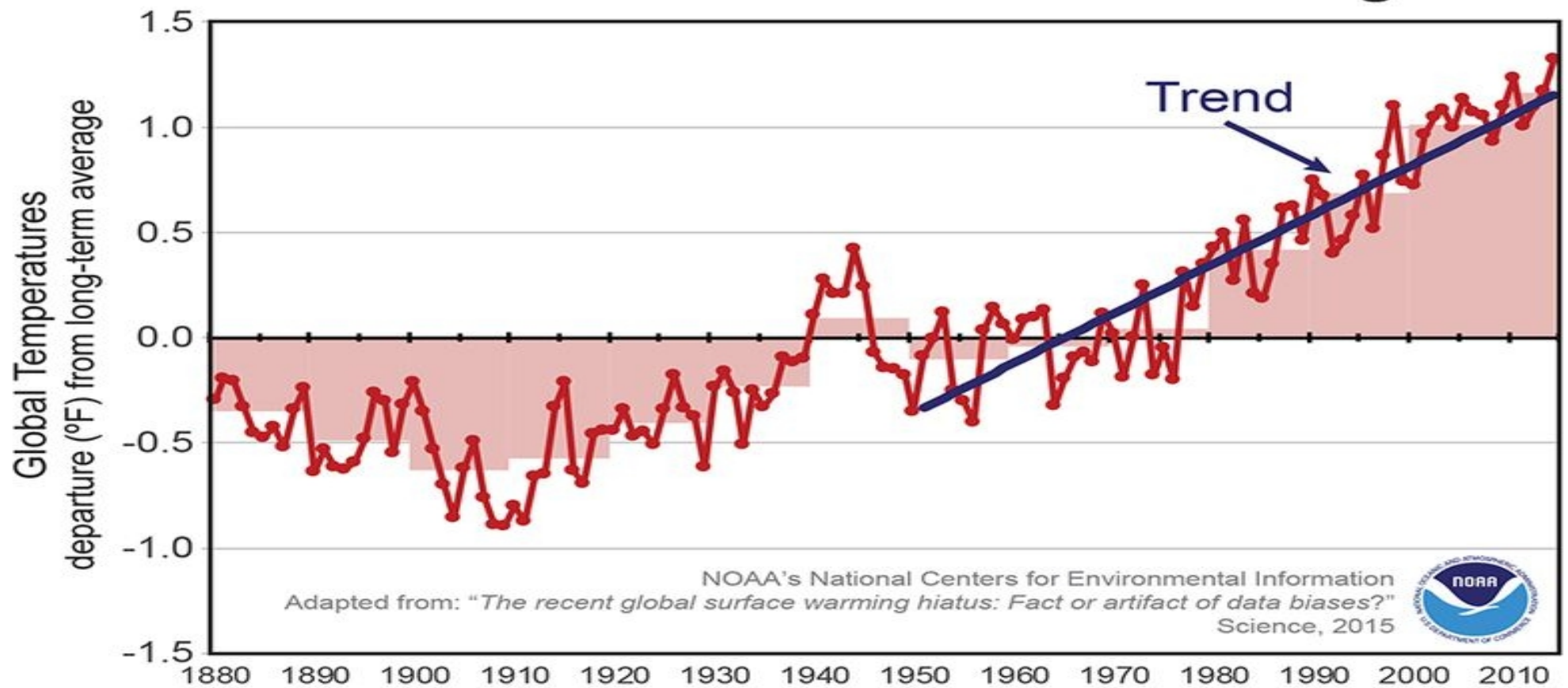
# The Problem ?



# COOKING THE BOOKS for President Obama

(Surface Data manipulated to meet immediate political needs)

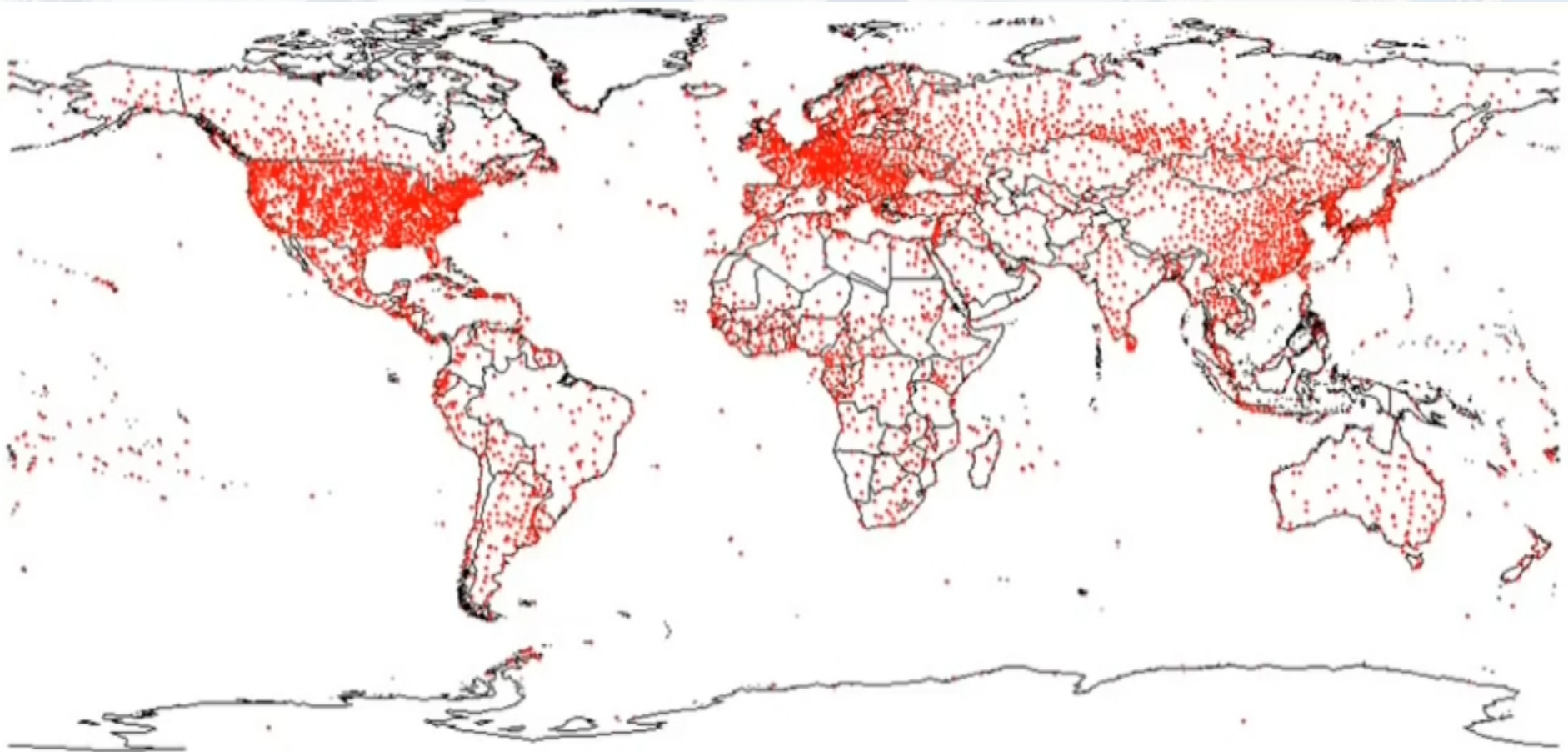
## No Slow Down in Global Warming



Contrary to much recent discussion, the latest corrected analysis shows that the rate of global warming has continued, and there has been no slow down.



# Modern network of Surface Temperature Stations

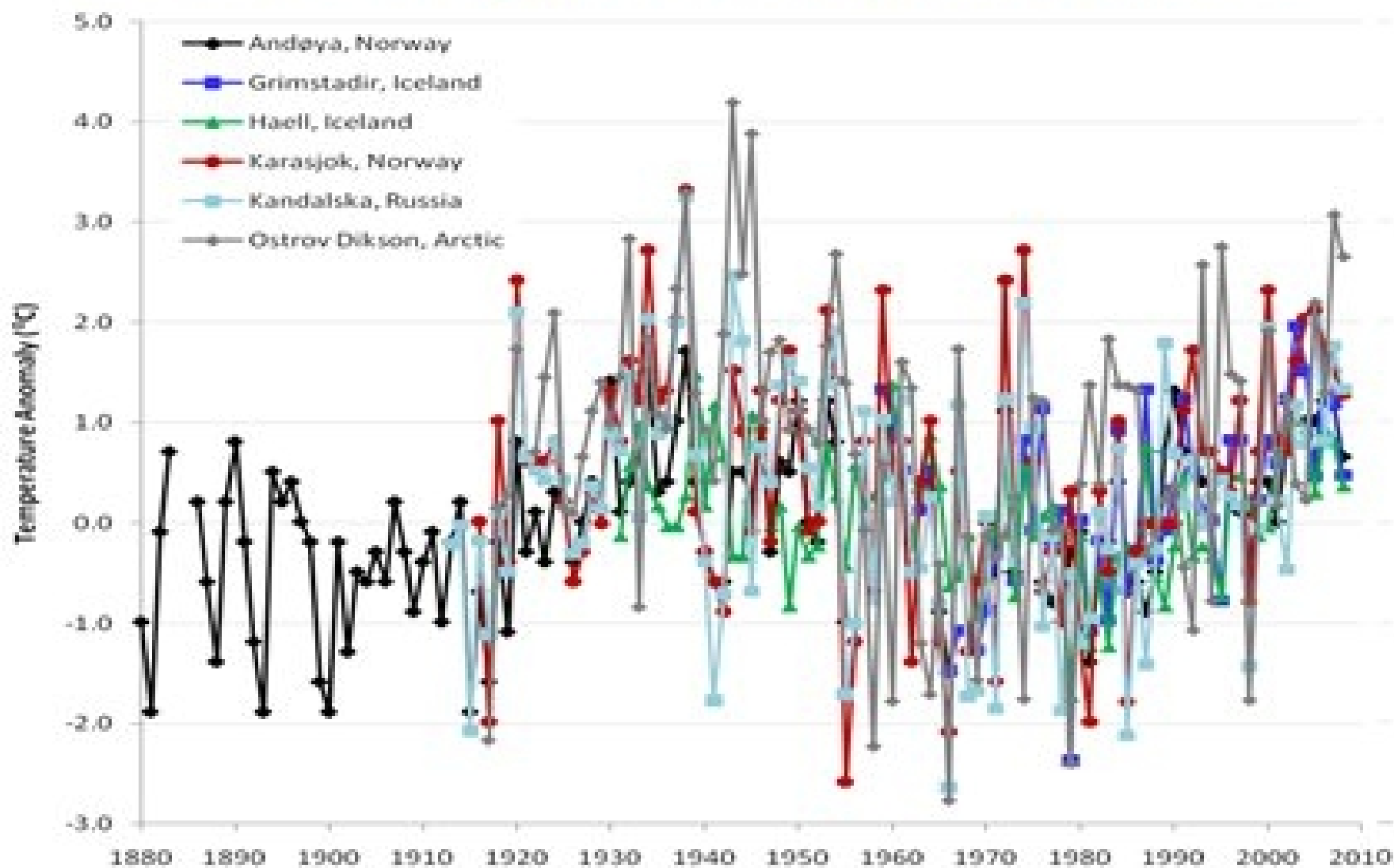


# Early 20<sup>th</sup> century Surface Temperature Stations





# Arctic Region Temperatures



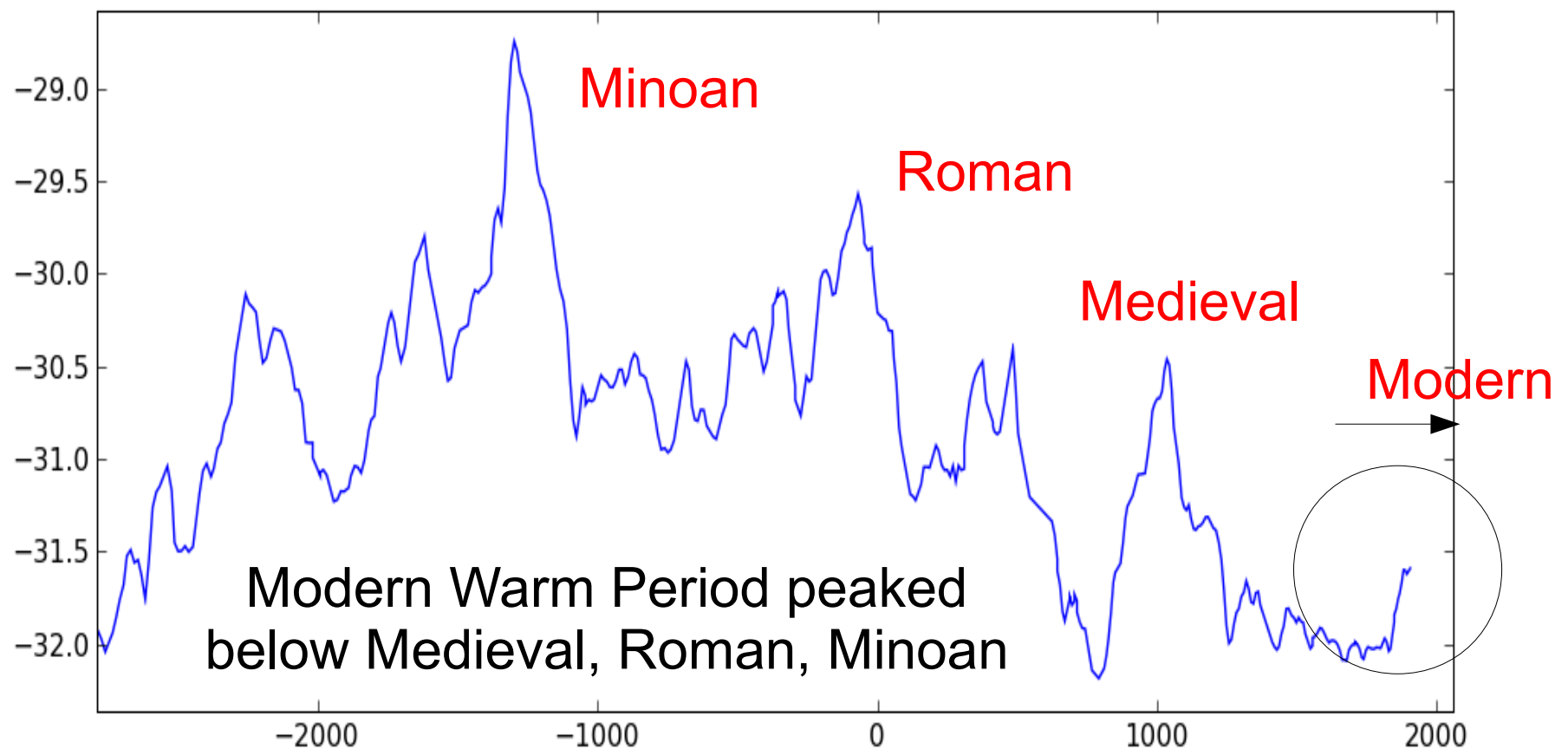
# Worldwide Record High Temperatures were set long ago



<i><b>Continent</b></i>	<i><b>All-time High</b></i>	<i><b>Place</b></i>	<i><b>Date</b></i>
Africa	136	El Azizia, Libya	September 13, 1922
North America	134	Death Valley, CA	July 10, 1913
Asia	129	Tirat Tsvi, Israel	June 22, 1942
Australia	128	Cloncurry, Queensland	January 16, 1889
Europe	122	Seville, Spain	August 4, 1881
South America	120	Rivadavia, Argentina	December 11, 1905
Oceania	108	Tuguegarao, Philippines	April 29, 1912
Antarctica	59	Vanda Station, Scott Coast	January 5, 1974



# Temperature in Central Greenland from 3000 BC



# Major Hurricanes are frequent when THC is Strong NOT when the Global Air Temperature is High

**1945-1969**  
(25 Years)

CAT 3-4-5  
TRACKS



GLOBE  
COOLING

ATLANTIC  
THC  
STRONG

**1970-1994**  
(25 Years)

CAT 3-4-5  
TRACKS



GLOBE  
WARMING

ATLANTIC  
THC  
WEAK



# 'It was like we were living in a furnace'

Continued from B1

air or a deep snowfall?"

Many sidewalks and roadways in Toronto cracked and buckled under the blasting heat; city workers had to sand streets to increase traction because the asphalt would melt and cars would skid and crash. Horses carrying milk and bread dropped dead in the streets.

People collapsed in factory sweatshops. Some employers shut down operations and sent workers home.

In the country, crops scorched, and in the Niagara peninsula fruit baked on trees.

Meteorologist Morley Thomas, then 18, was in a wheat field on his uncle's farm near London, Ont. They were using a binder pulled by horses.

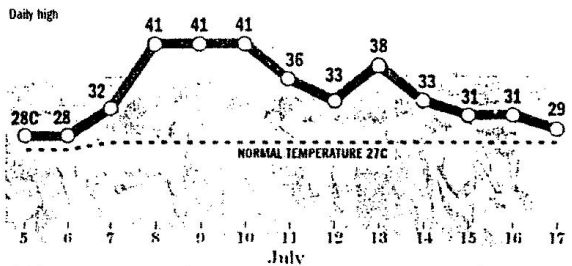
"One of the horses just dropped over dead. My uncle said we better stop," he recalled.

Star reporter Jocko Thomas, now retired, was sent to the morgue during the heat wave to write down the names of the dead for The Star.

He said he could smell the morgue "miles away," despite the ice blocks used to retard decomposition.

"It was almost unbearable," said Thomas, 87. "There were so many deaths the coroner couldn't keep up."

## Toronto's heatwave of '36



A funeral director, who usually dealt with four calls a day, handled more than 25 funerals in 48 hours.

Florist D.W. Yavner told the Toronto Daily Star, "The demand for flowers is heavier than during the war. We have run out three times already and stock is very scarce on account of the heat."

The heat in 1936 didn't have the humidity that Toronto has today, because it began in the prairies. Plus it carried less smog and haze — but it was hotter and probably harder on residents than this week's heat wave because people had fewer means, like air conditioning, to cope with it, Environment Canada's Phillips said.

People dodged the heat by hiding in their "cellars" and spending nights in parks and on lakeshore beaches, Perkins said.

"People stayed all night on Sunnyside, Cherry, Simcoe and Kew beaches because those were the only cooler places," he said. "We had no fan, no air conditioner then, and you just had to be more creative."

University of Toronto geography professor Jim Lemon, and author of *Toronto Since 1918, an Illustrated History*, said the sweltering temperatures prompted men to swim without their bathing tops, which was considered immodest at the time. "The heatwave was a blow

against Toronto the Good," he laughed.

The city also allowed ice delivery on Sunday, which struck many citizens as sacrilegious, Phillips said.

An article in the July 9 edition of the Daily Star said 5,000 electric fans were sold that week and ice plants had to increase their staff by 50 per cent to meet demand.

Most people would line up at department stores like Simpson's and a couple of theatres on Yonge St., that had air conditioning, just to get cool. People even reversed the flow of their vacuum cleaners to get some kind of air circulation, Phillips noted.

Dry ice was used to reduce the temperatures in hospital wards.

"The nurses put a tub of ice cubes at the end of the hall to keep us cool," recalled Lilyan Caplan, 92, who just gave birth to her daughter Helen at the then-Toronto Western Hospital on July 6, 1939.

"They couldn't keep the bed dry. They changed the sheets and that's a pleasure for about five minutes, then the sheets were wet again. It was horrible."

But this time, Caplan doesn't have to worry about staying dry.

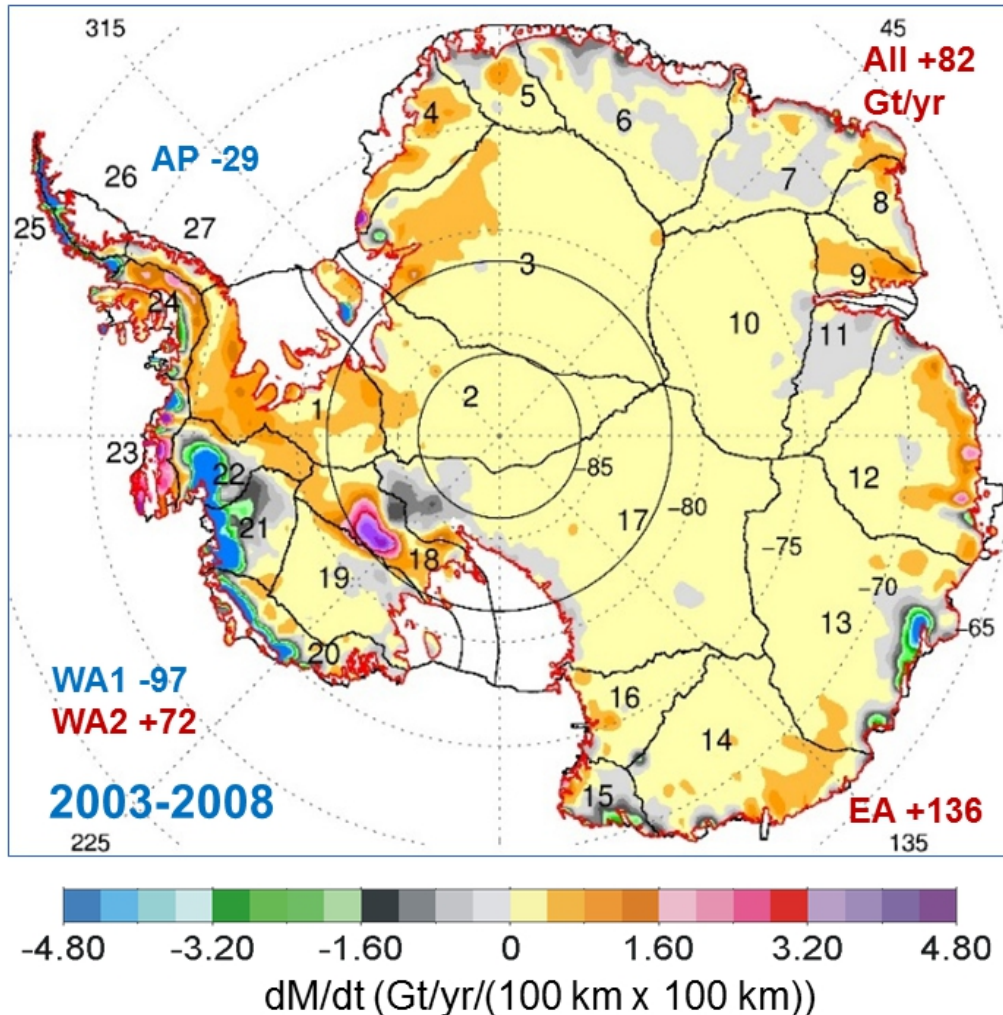
"I am glad we have air conditioning these days. The heat doesn't bother me any more."

With files from Harold Levy

**Figure 2.11** News story on the heat wave in Toronto, July 5-17, 1936. From The Toronto Star, August 9, 2001.

*Deadliest heat wave in Canada; 1100 people died July 1936*

# Antarctic Ice Sheet **GAINS** Mass



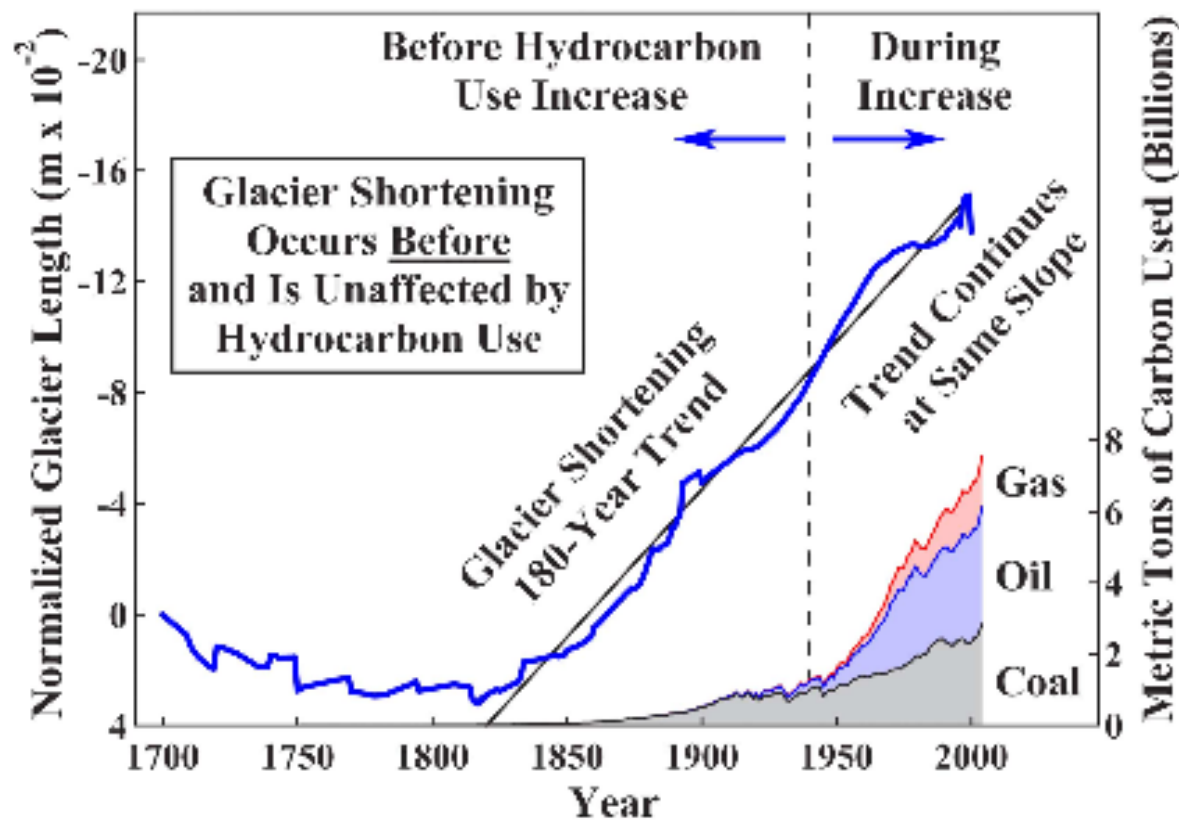
## FROM NASA:

“The Antarctic ice sheet showed a net gain of 112 billion tons of ice a year from 1992 to 2001. That net gain slowed to 82 billion tons of ice per year between 2003 and 2008.”

“The research challenges the conclusions of .... the Intergovernmental Panel on Climate Change’s (IPCC) 2013 report, which says that Antarctica is overall losing land ice.”

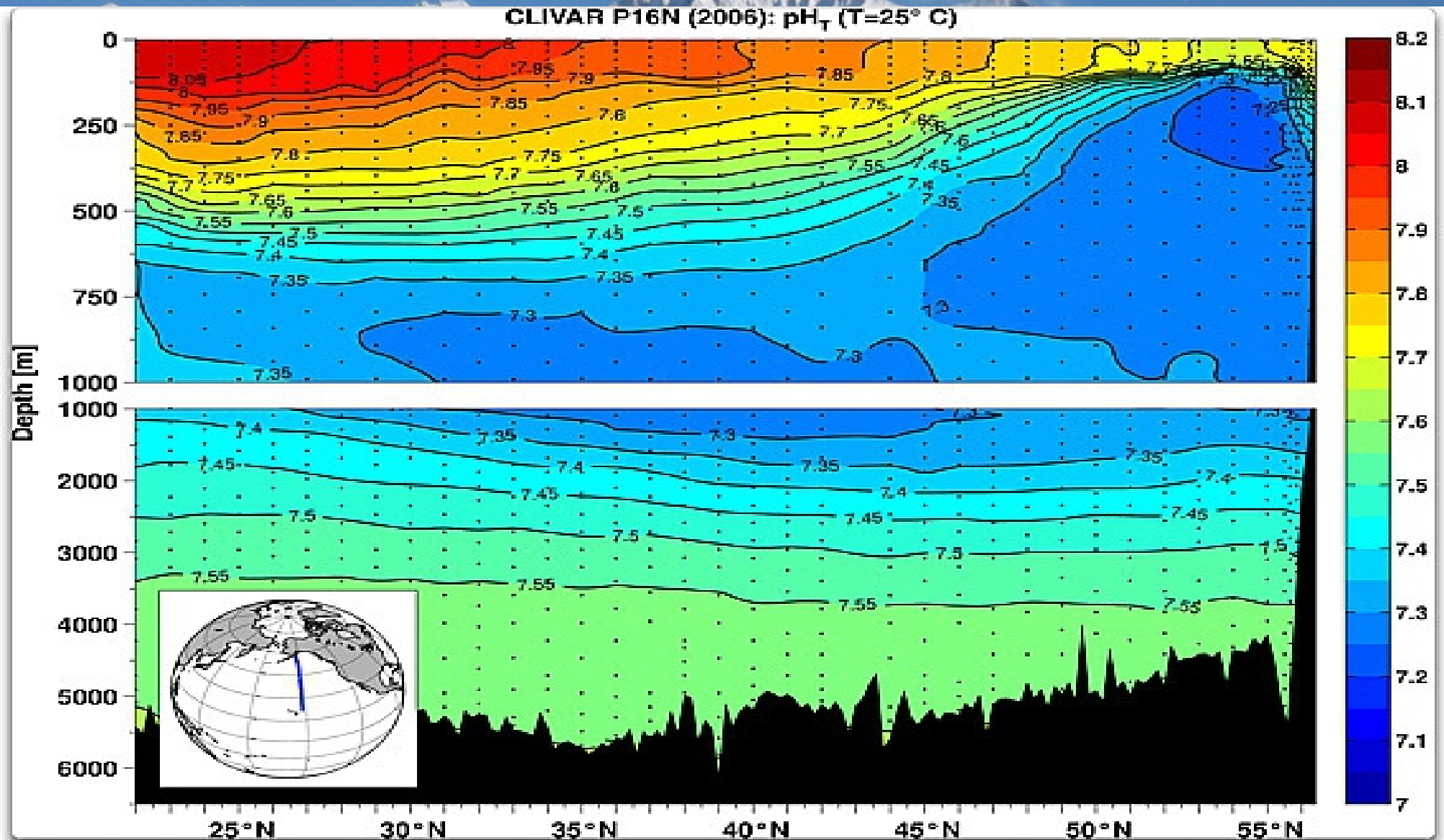


# Glaciers are shortening Humans NOT responsible



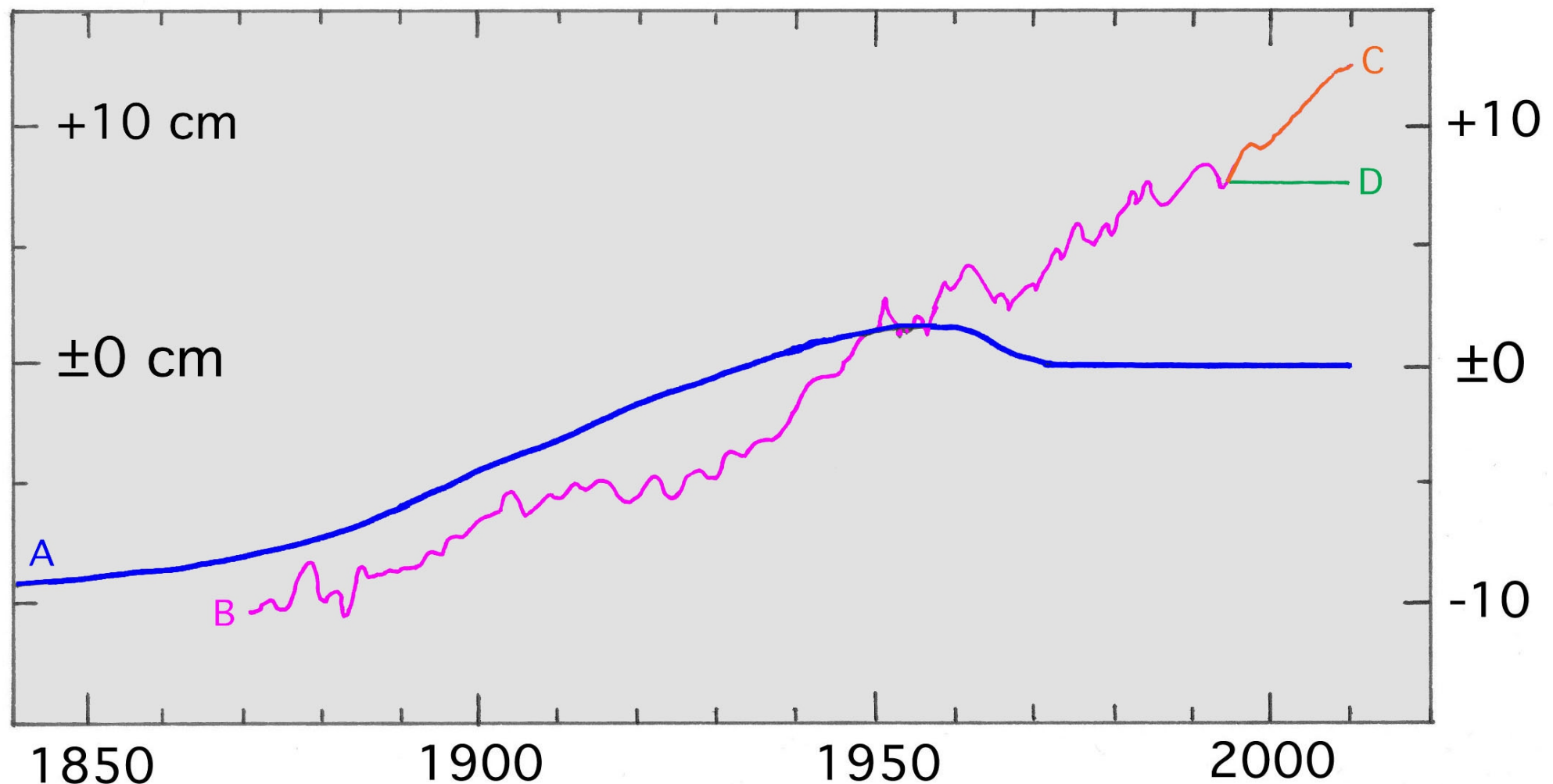
# Measured Ocean pH from Hawaii to Alaska

Pacific is entirely **Alkaline** NOT Acidic (pH above 7.0)





# Sea Level trend based on observational facts (blue) versus IPCC (purple) and Satellite (orange and green)



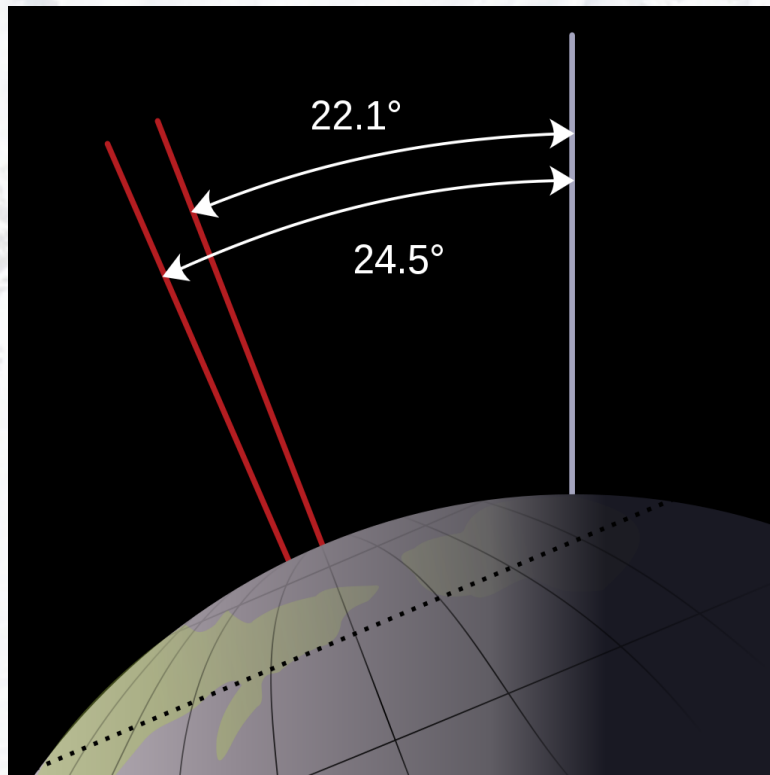
# Jupiter with 'Red Spot' (NASA / JPL)



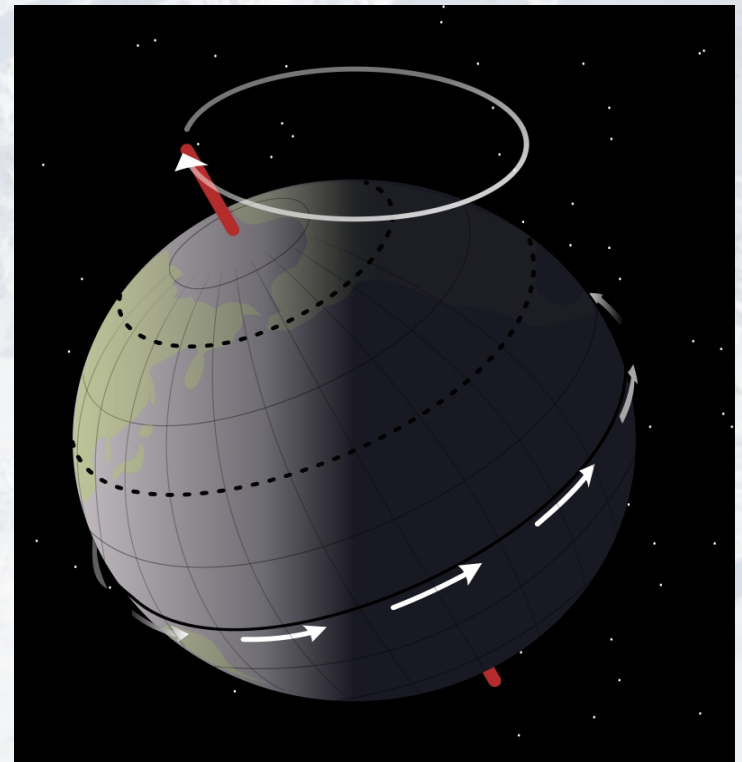


# Milankovitch Cycles

Obliquity (41 kyr)

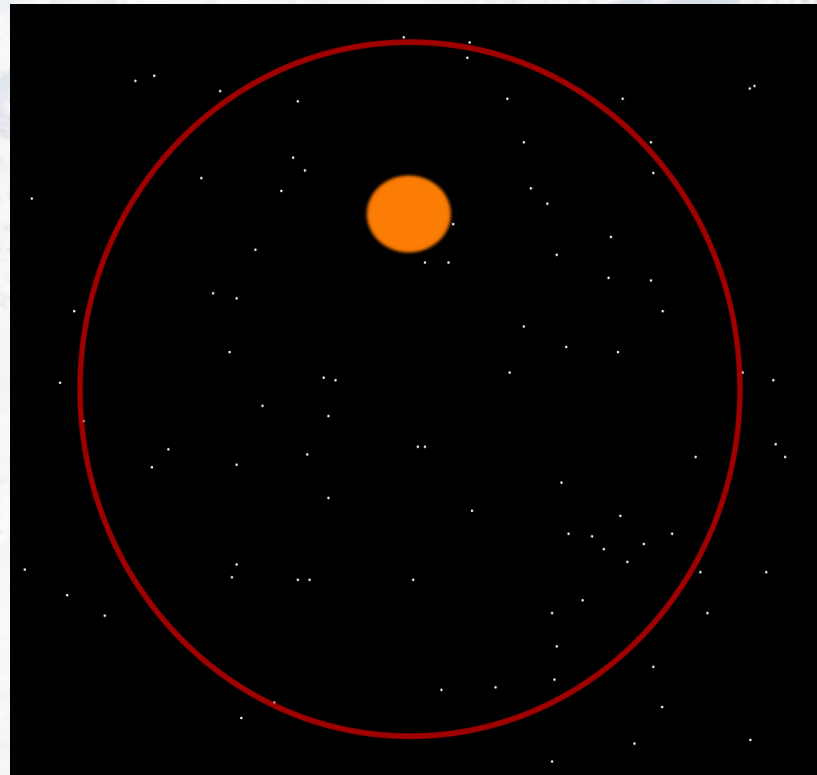


Precession (25 kyr)



# Milankovitch Cycles

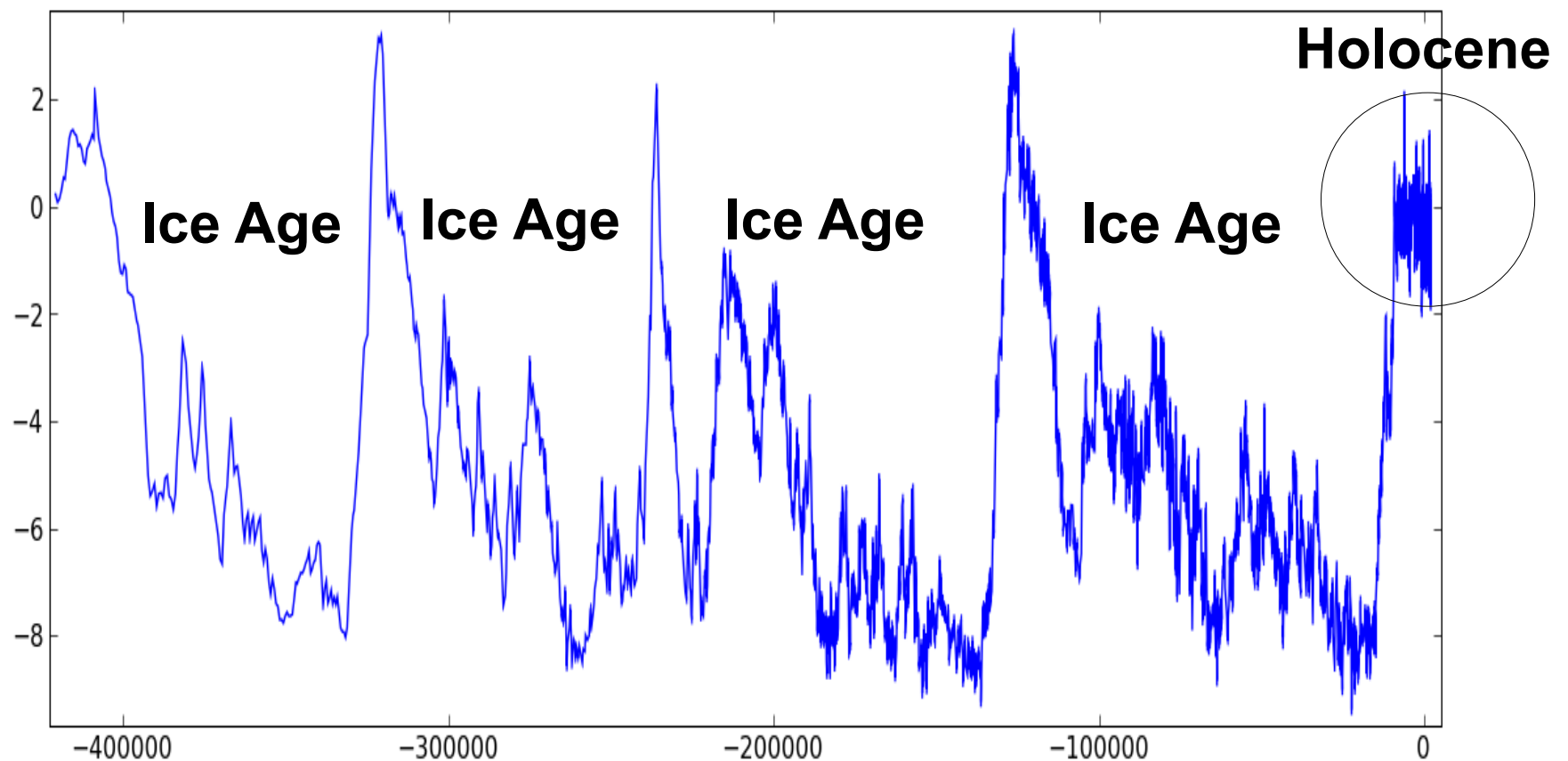
Eccentricity (100 kyr)

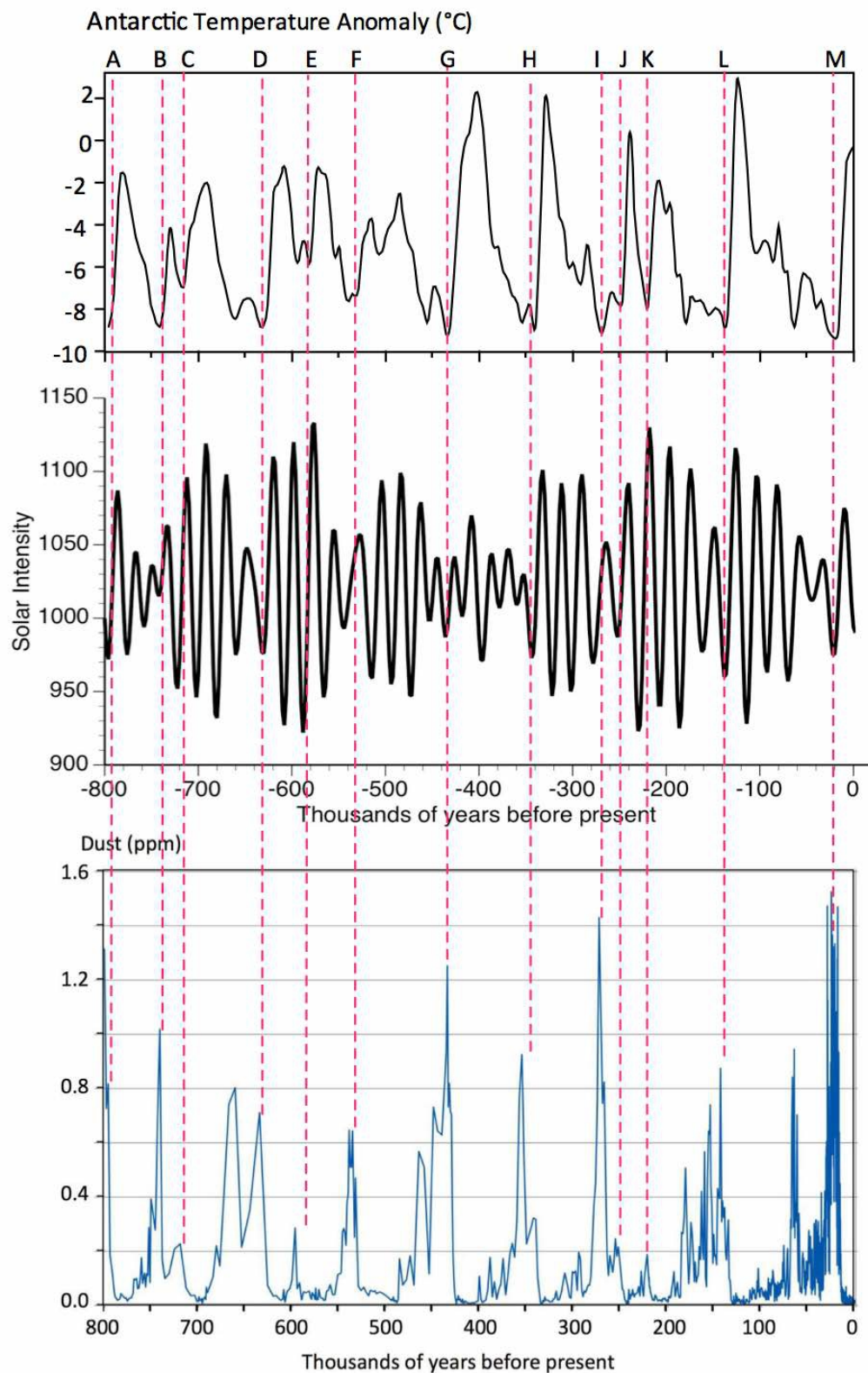




# Temperature at Vostok, Antarctica from 450,000 BC

Note Regular Pattern of Ice Ages





## Have scientists discovered the Holy Grail of the Ice Ages?

**TOP:** Antarctic Ice Core proxy temperatures

**MIDDLE:** Solar intensity at 65N on June 21

**BOTTOM:** Dust observed in the ice

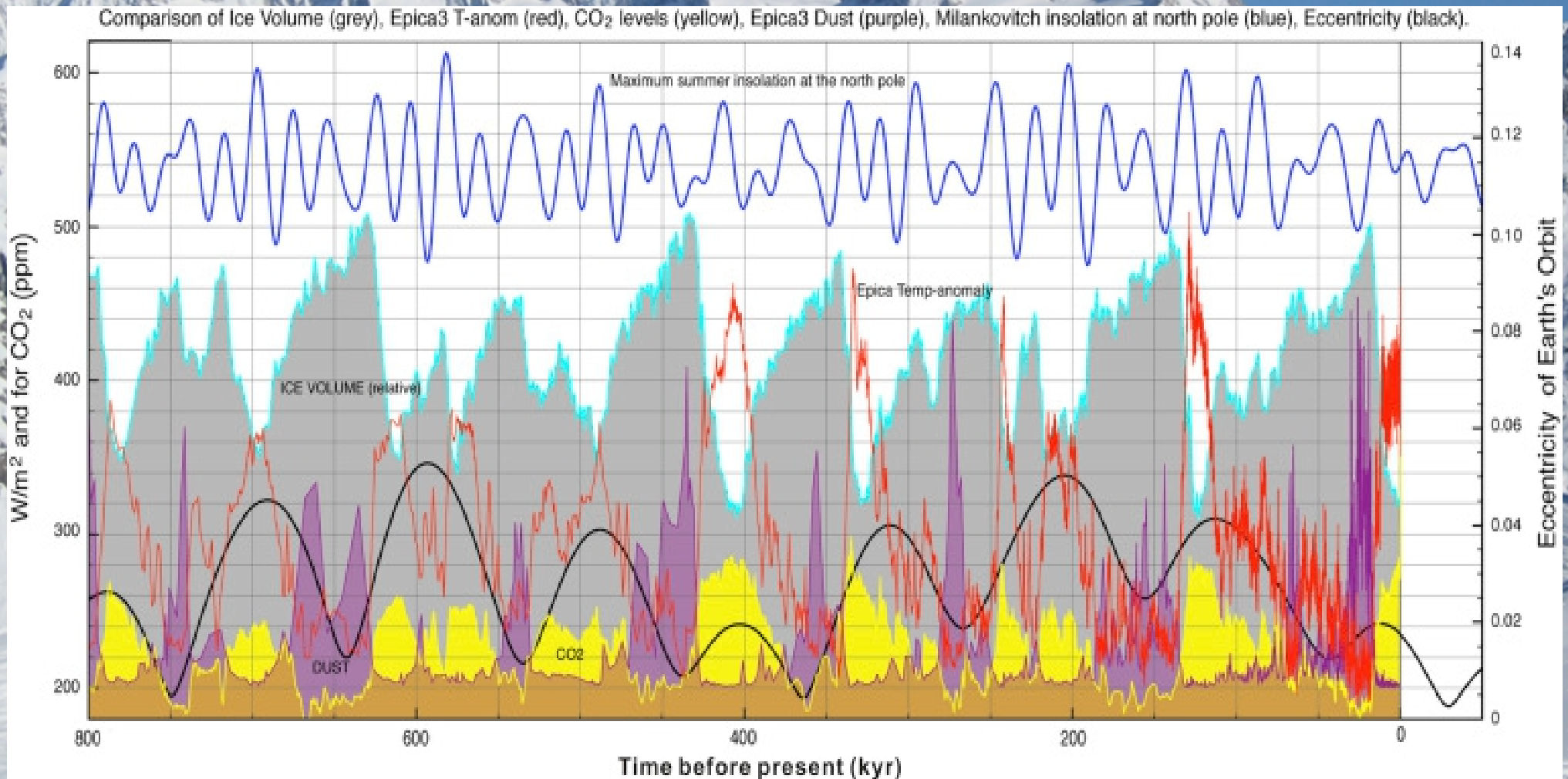
**Question:** How did Earth exit an ice age?

**Conclusion:** Vast dust storms darkened continental glaciers, causing them to gradually melt.

**BUT WHAT CAUSED SO MUCH DUST?**



# Critically low atmospheric CO<sub>2</sub> levels cause life to die and high deserts to expand - creating vast dust storms



# “The Sun defines the Climate”



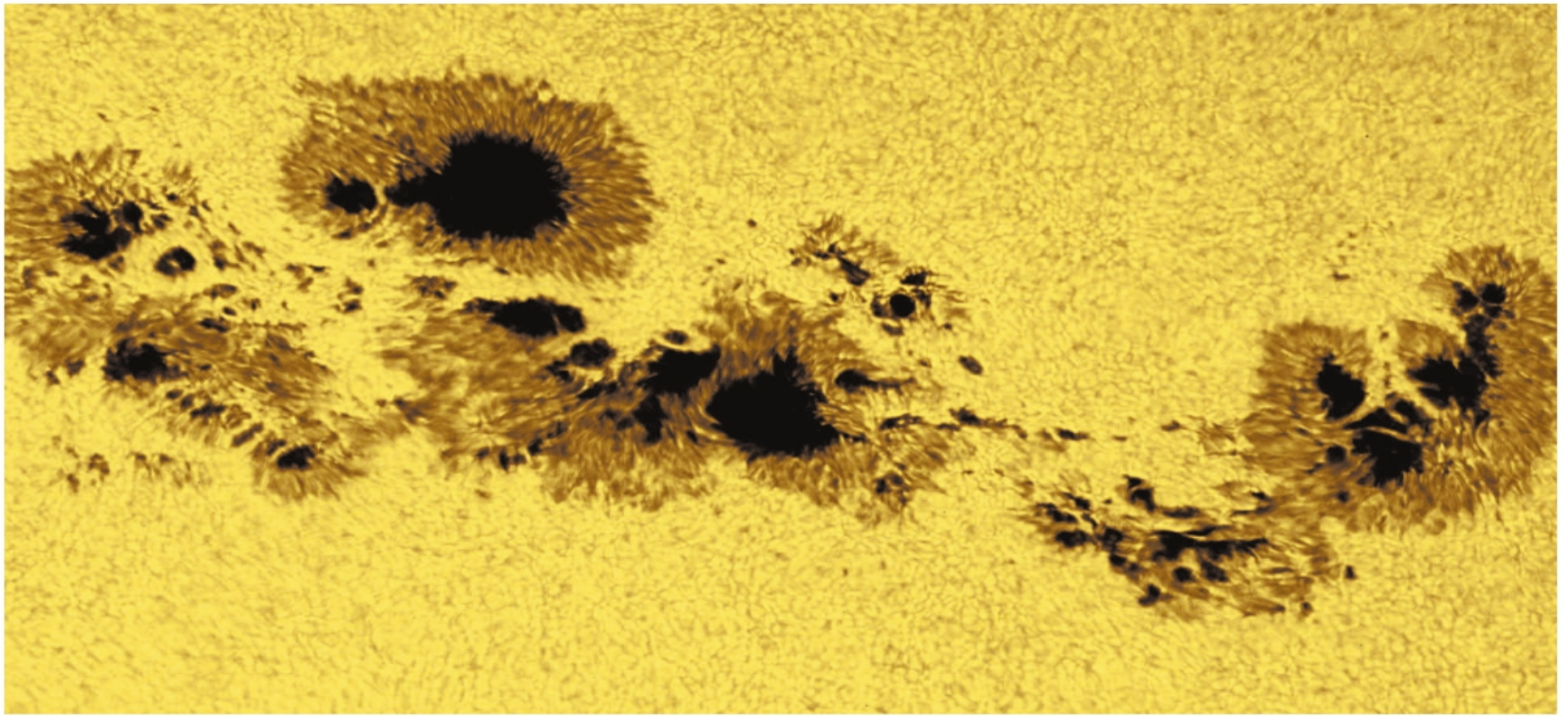
*Habibullo Abdussamatov, Dr. Sc.*

*Head of Space research laboratory of the  
Pulkovo Observatory*

Experts of the United Nations in regular reports publish data said to show that the Earth is approaching a catastrophic global warming, caused by increasing emissions of carbon dioxide to the atmosphere. However, observations of the Sun show that as for the increase in temperature, **carbon dioxide is "not guilty"** and as for what lies ahead in the upcoming decades, it is not catastrophic warming, but a global and very prolonged temperature drop.



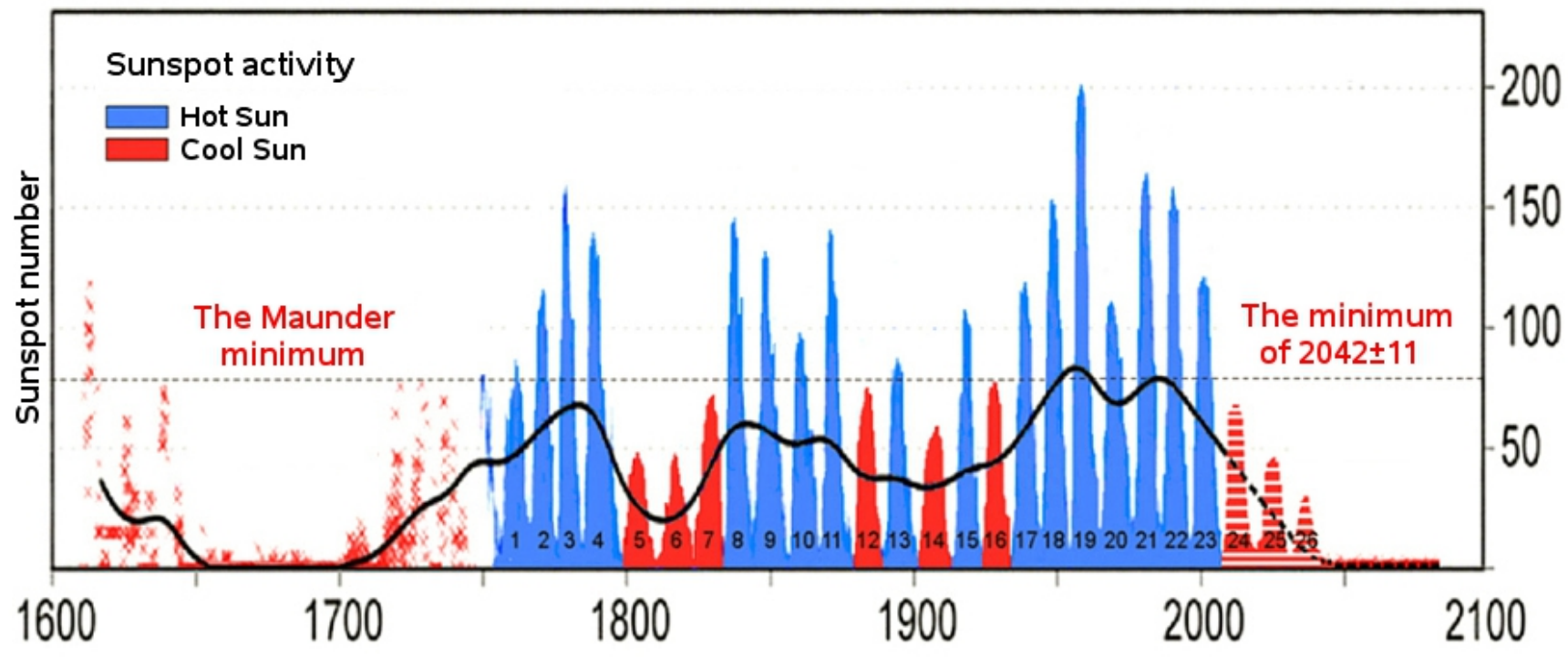
# Sunspots are Manifestations of Solar Magnetic Activity



Sunspots are manifestations of solar magnetic activity. In general, the more sunspots there are, the more active the Sun is. Ironically, the Sun is usually brighter when a large number of sunspots mar its visible surface. Courtesy of William C. Livingston (Kitt Peak National Solar Observatory).



# Sunspot data from 1611 with forecast to 2080





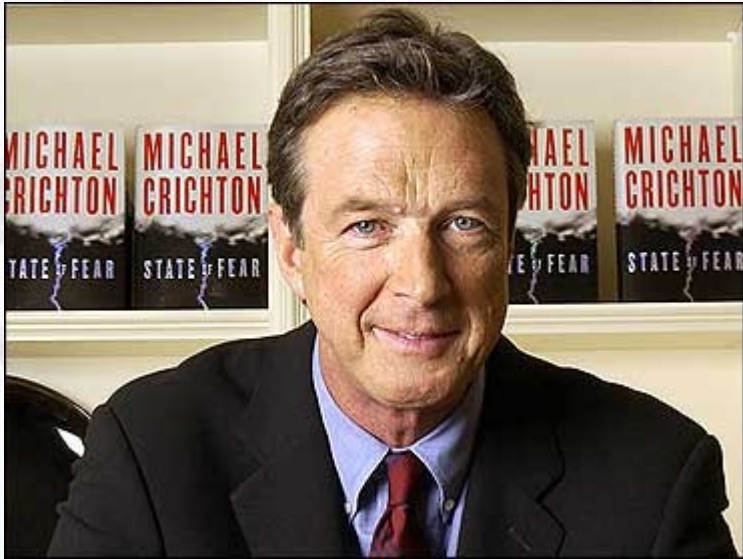
# The Threat is Global Cooling

**Toward another 'Little Ice Age' THIS CENTURY**

**BUT NOT into a 100,000 year 'Big Ice Age' for 50 kyr**



# Michael Crichton's famous Michelin lecture at Caltech



## 'Aliens Cause Global Warming' (2003)

“Of course, any scientist can be charged as Galileo was charged. I just never thought I’d see the Scientific American in the role of Mother Church.

Is this what science has become? I hope not....

Personally, I don't worry about the nation. But I do worry about science.”

— Michael Crichton



# What do the Best and the Brightest say about Global Warming?

**Massachusetts Institute of Technology  
Professor of Meteorology Richard Lindzen  
Is widely recognized as the greatest  
meteorologist alive today:**



**“The need to courageously  
resist hysteria is clear.”**

# Concern permeates elite opinion

***“Some ideas are so stupid  
that only intellectuals  
believe them.”***

**- George Orwell**