



Anthropogenic Warming

David E. Thomas

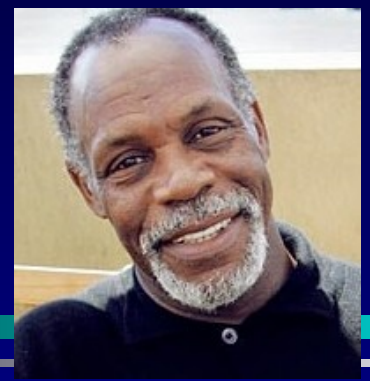
President, NMSR

April 27th, 2012

nmsrdave@swcp.com



Thought of the Day



Actor DANNY GLOVER, on Haiti earthquake:

“ And I hope we seize this particular moment because the threat of what happens in Haiti is the threat that can happen anywhere in the Caribbean to these island nations, you know? They're all in peril because of global warming; they're all in peril because of climate change. When we see what we did at the climate summit in Copenhagen, this is the response, this is what happens, you know what I'm saying? But we have to act now.”

<http://www.youtube.com/watch?v=a2ft5JkNWJA>

Global Warming is Here!



Observations at Tuvalu, S.Pacific...



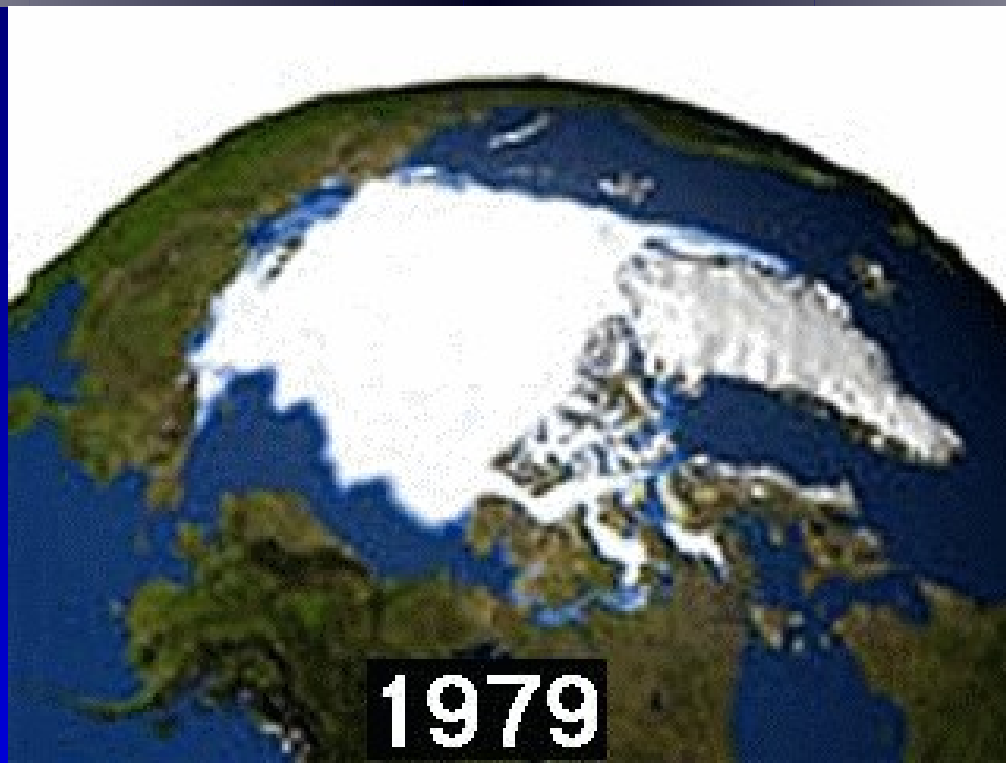
Meteorological Observatory
viewed during normal tide heights



Observatory during higher
spring tides

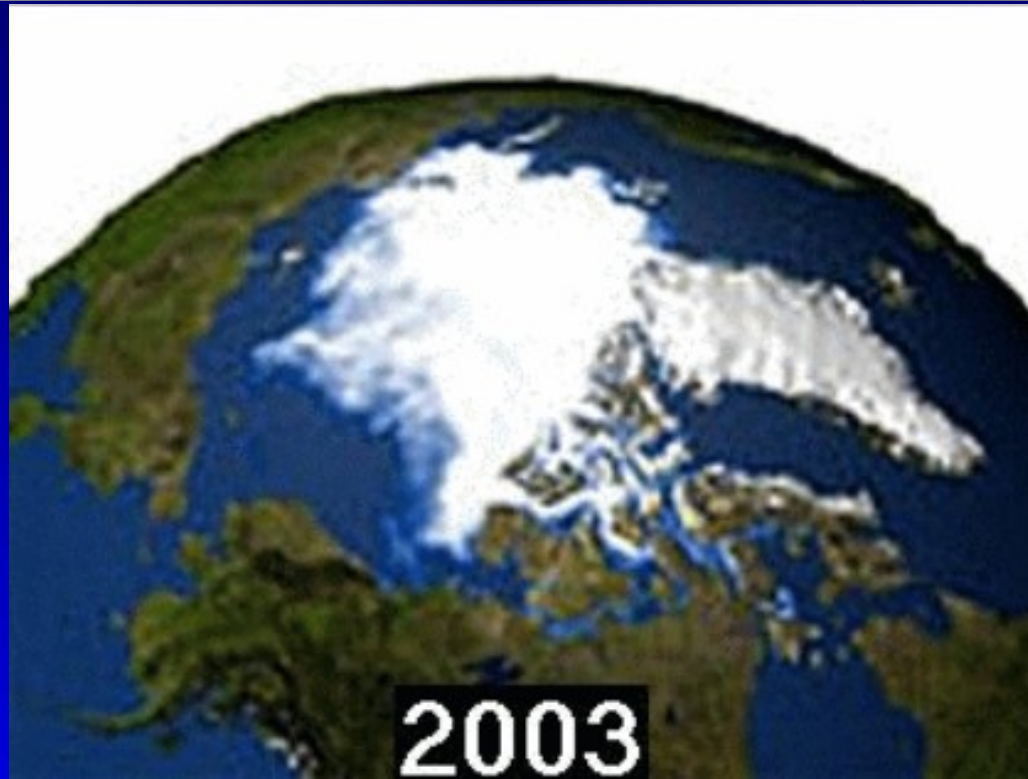


Melting Ice



**Minimum Arctic sea ice concentration
1979 versus 2003 (NASA)**

Melting Ice



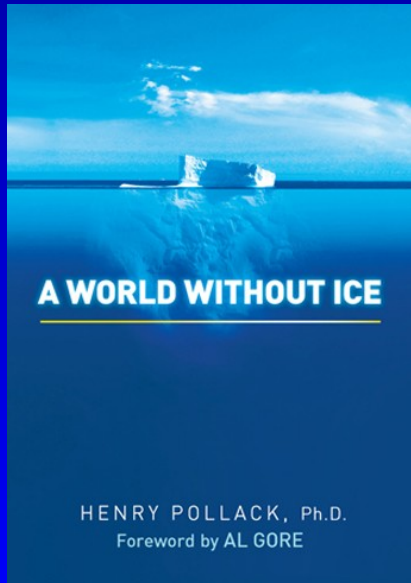
**Minimum Arctic sea ice concentration
1979 versus 2003 (NASA)**



Henry Pollack. U. Mich.



“Ice asks no questions, presents no arguments, reads no newspapers, listens to no debates. It is not burdened by ideology and carries no political baggage as it crosses the threshold from solid to liquid. It just melts.”





Henry Pollack. U. Mich.

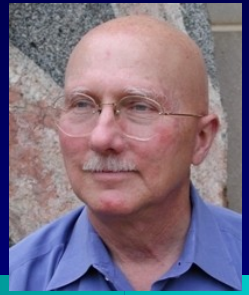
Why is Earth's ice deteriorating so rapidly?



“The atmosphere is warming because of the anthropogenic greenhouse effect. The burning of carbon-based fossil fuels emits carbon dioxide into the atmosphere, and enhances the heat-trapping capability of Earth's atmosphere. ..”



Henry Pollack. U. Mich.



“...ice at the top of high mountains is in retreat around the world. Many of the tropical and mid-latitude glaciers, such as those in Africa, the Andes, the Alps, and in the Rocky Mountains will probably disappear in the next few decades. Ice loss is also occurring in the Himalayas, but because of their greater elevations and larger ice mass, some ice will endure beyond the end of the 21st century.”



Henry Pollack. U. Mich.



What does the melting of ice mean in terms of sea level rise?

“Just as an ice cube afloat in a beverage glass does not raise the water level in the glass as it melts, neither does the accelerating seasonal melting and breakup of the Arctic sea ice raise sea level directly, because that ice is already afloat in the Arctic Ocean.”



Henry Pollack. U. Mich.



“But the melting of Greenland and the mountain glaciers around the world contributes additional water to the oceans, at a rate sufficient to raise sea level approximately 12 centimeters over the course of a century. Such a rise in sea level would on its own be disruptive but not catastrophic. ...”



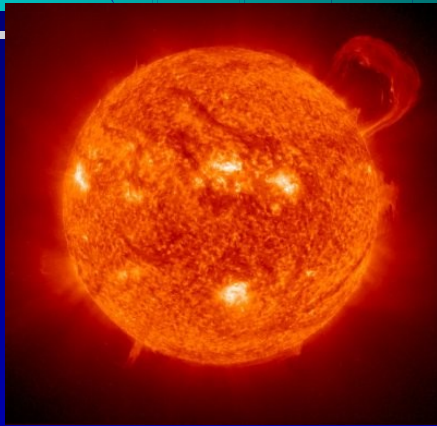
Henry Pollack. U. Mich.



“But melting ice is not the only cause of an increase in sea level. Two other factors play an even greater role. The first is simply the warming of ocean water around the globe, which causes the sea water to expand. This factor alone contributes more than half of the rise in sea level currently observed. The second factor is the direct loss of ice from Greenland and Antarctica directly into the sea, without first undergoing melting. Such additions of ice raise sea level the moment the ice discharges into the sea. ...”

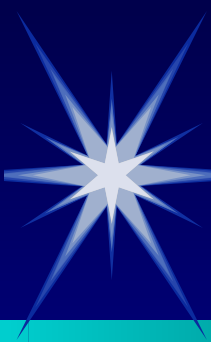


Is it just the SUN?



Fred Thompson for Paul Harvey radio (March 2007): *“Some people think that our planet is suffering from a fever. Now scientists are telling us that Mars is experiencing its own planetary warming: Martian warming. It seems scientists have noticed recently that quite a few planets in our solar system seem to be heating up a bit, including Pluto....”*

The Message: “Global Warming” is due to **Solar variations**, and not Greenhouse Gases.

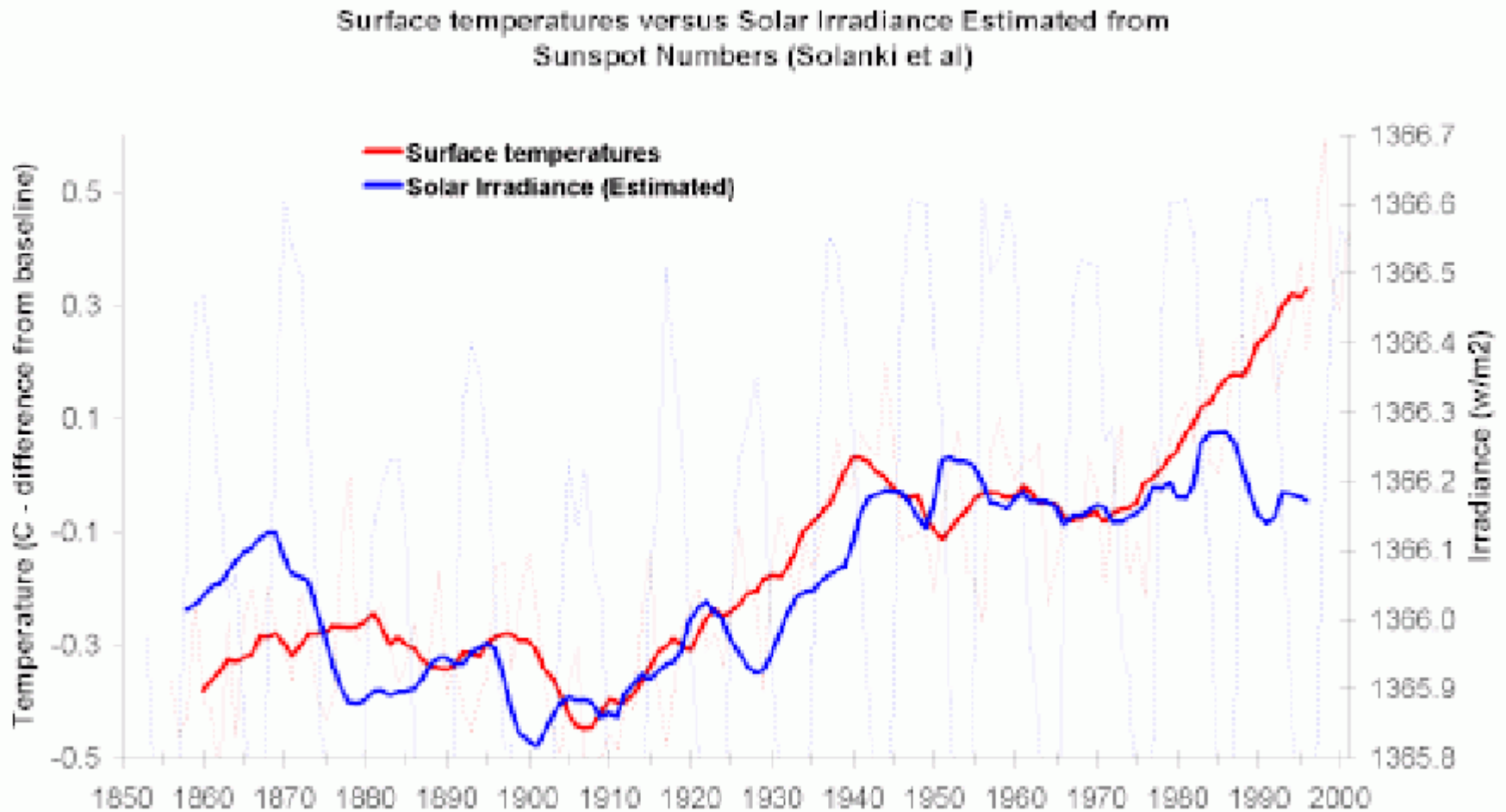


Is it just the SUN?

Don Neidig of the National Solar Observatory:

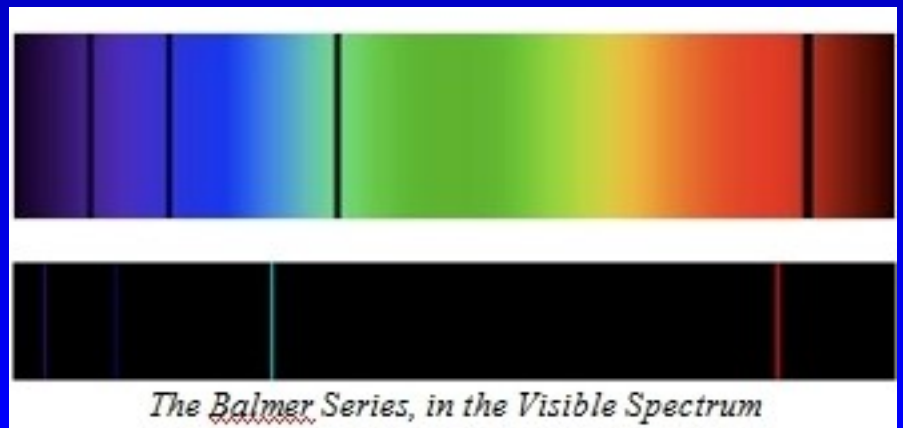
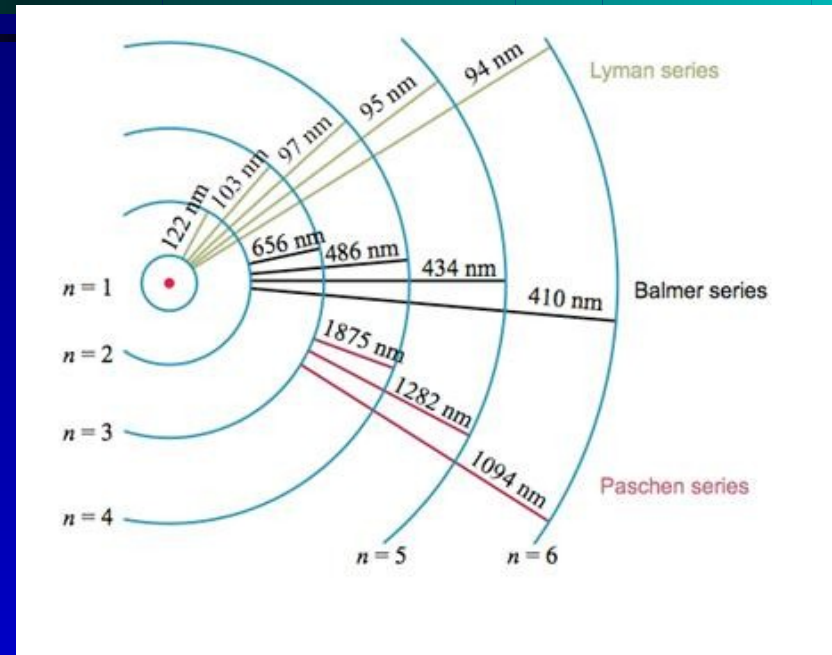
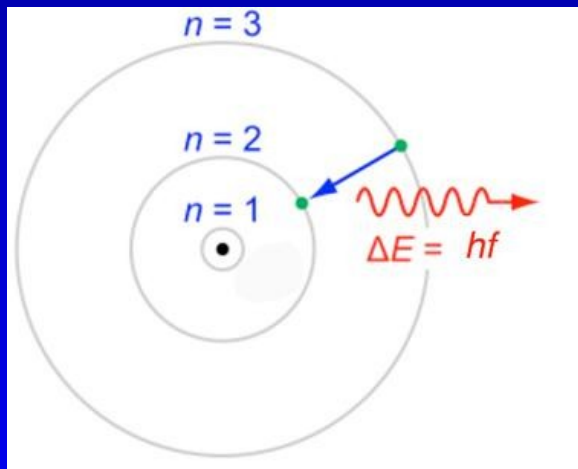
“Results show a correlation between reconstructed TSI (Total Solar Irradiance) and reconstructed global temperature that is fairly persuasive of a sun-climate link -- up until the 20th century, when again the temperature rises fast and the TSI remains more or less unchanged. ... there is as yet no acceptable evidence for a solar origin for what we call global warming.”

Is it just the SUN?

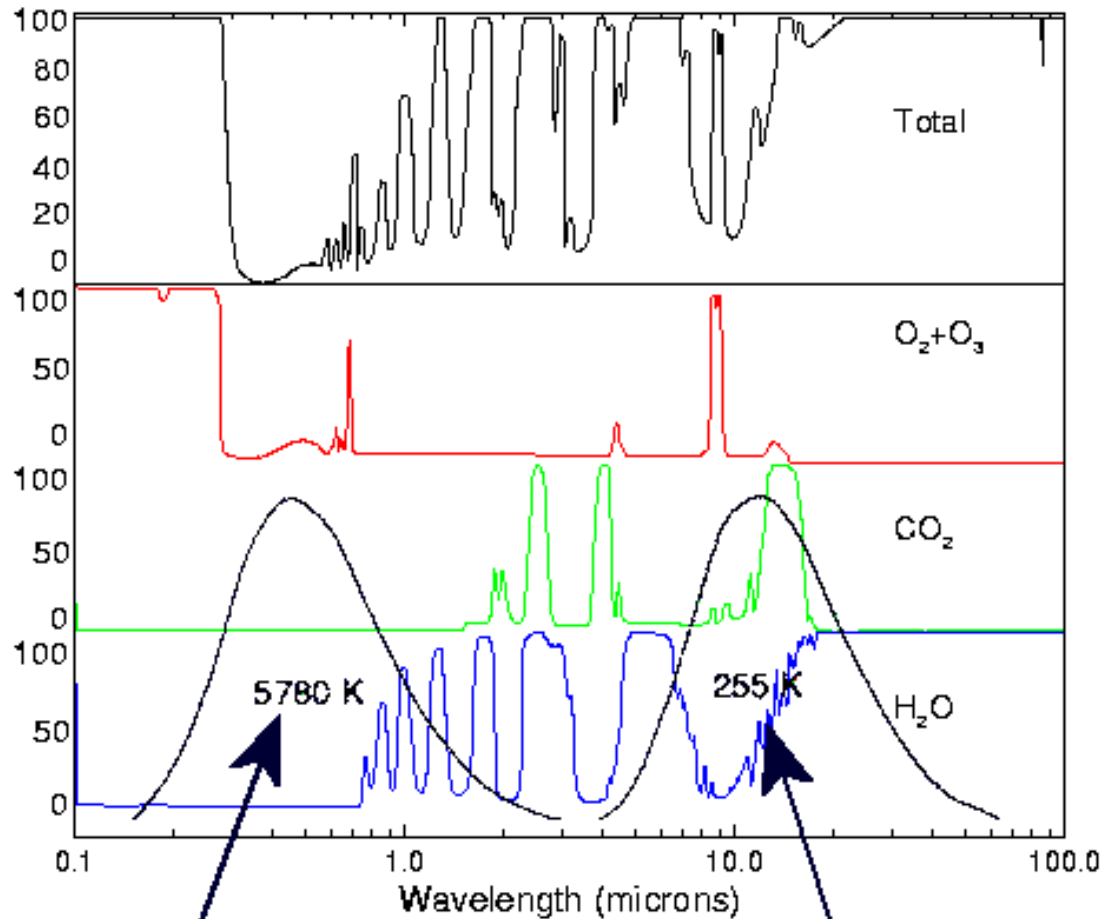


The Greenhouse Effect

Absorption and Emission of EM Energy

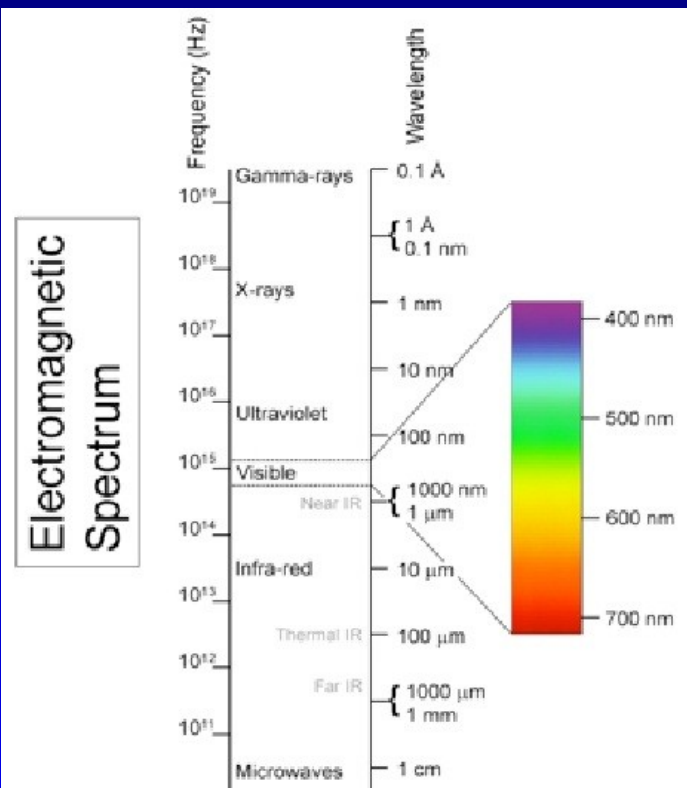


The Greenhouse Effect

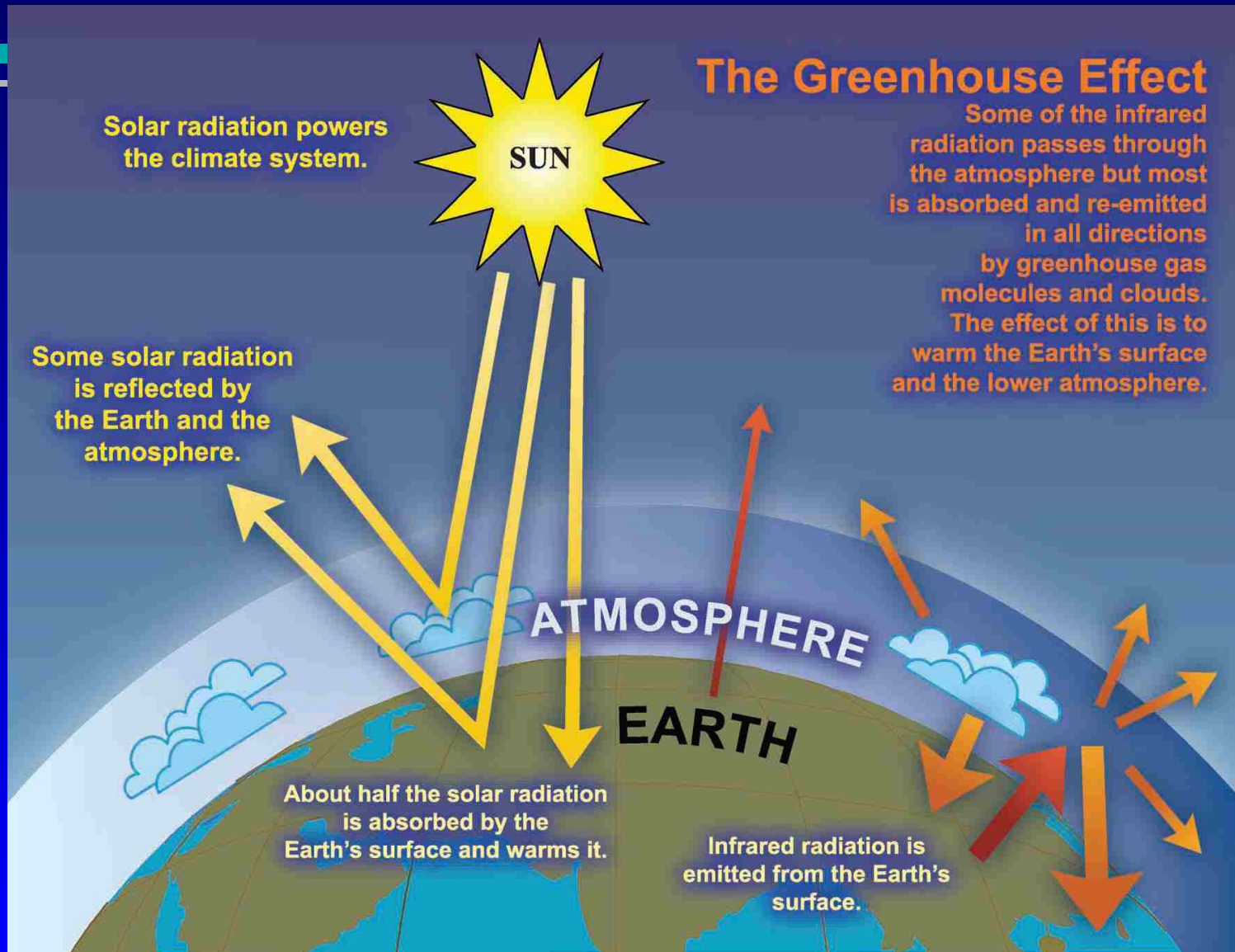


Solar radiation coming in

Earth thermal radiation going out



The Greenhouse Effect





Some Facts to Ponder...

Without *any* greenhouse phenomena, Earth's water would all be frozen. Earth would be an Ice Planet.

“Atmospheric Lifetime” refers to persistence of chemicals /gases – how long would it take to return to normal? Water Vapor, Sulfate aerosols~ 1 week; CO₂, 1 century.



Weather does not = Climate ...

Despite the protests of FOX anchors and local TV meteorologists, a snowstorm or unusual cold spell does not mean there is no “Global Warming.”



Weather does not = Climate ...

Weather Predictions are accurate at best a few weeks ahead; analogy is like picking exact moment Al Gore will die.

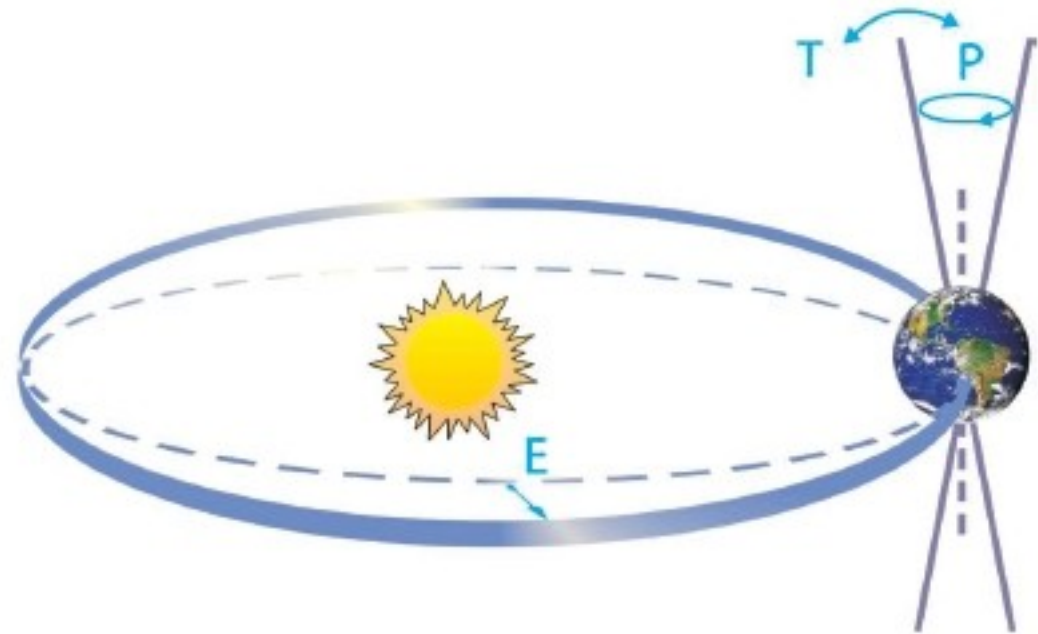
Climate Predictions involve hundreds of sources and vetted models; analogy is like estimating life expectancy of 45-year old heavy smoker for insurance policy.

We do know climate 50 years hence better than weather 5 weeks hence...

What of past Ice Ages?

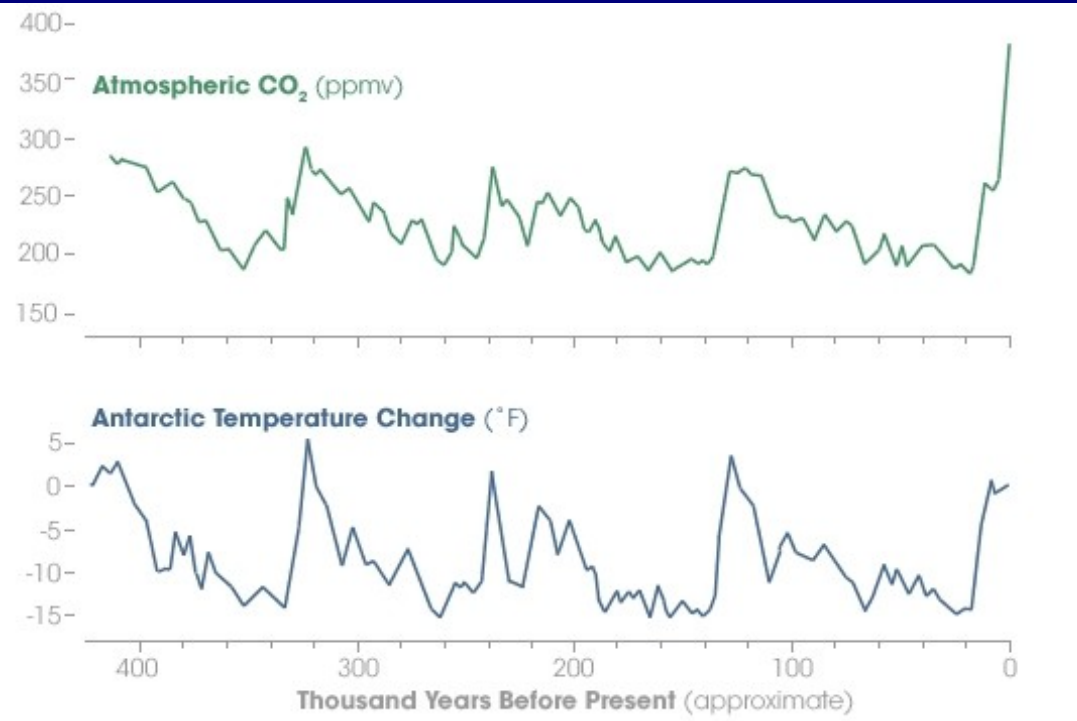
How do we know
AGW is man-
made, and not just
Earth doing its
natural thing?

IPCC: The next large reduction in northern summer insolation, similar to those that started past Ice Ages, is due to begin in 30,000 years.



FAQ 6.1, Figure 1. Schematic of the Earth's orbital changes (Milankovitch cycles) that drive the ice age cycles. 'T' denotes changes in the tilt (or obliquity) of the Earth's axis, 'E' denotes changes in the eccentricity of the orbit (due to variations in the minor axis of the ellipse), and 'P' denotes precession, that is, changes in the direction of the axis tilt at a given point of the orbit. Source: Rahmstorf and Schellnhuber (2006).

Comparing Past CO₂ and Temperature



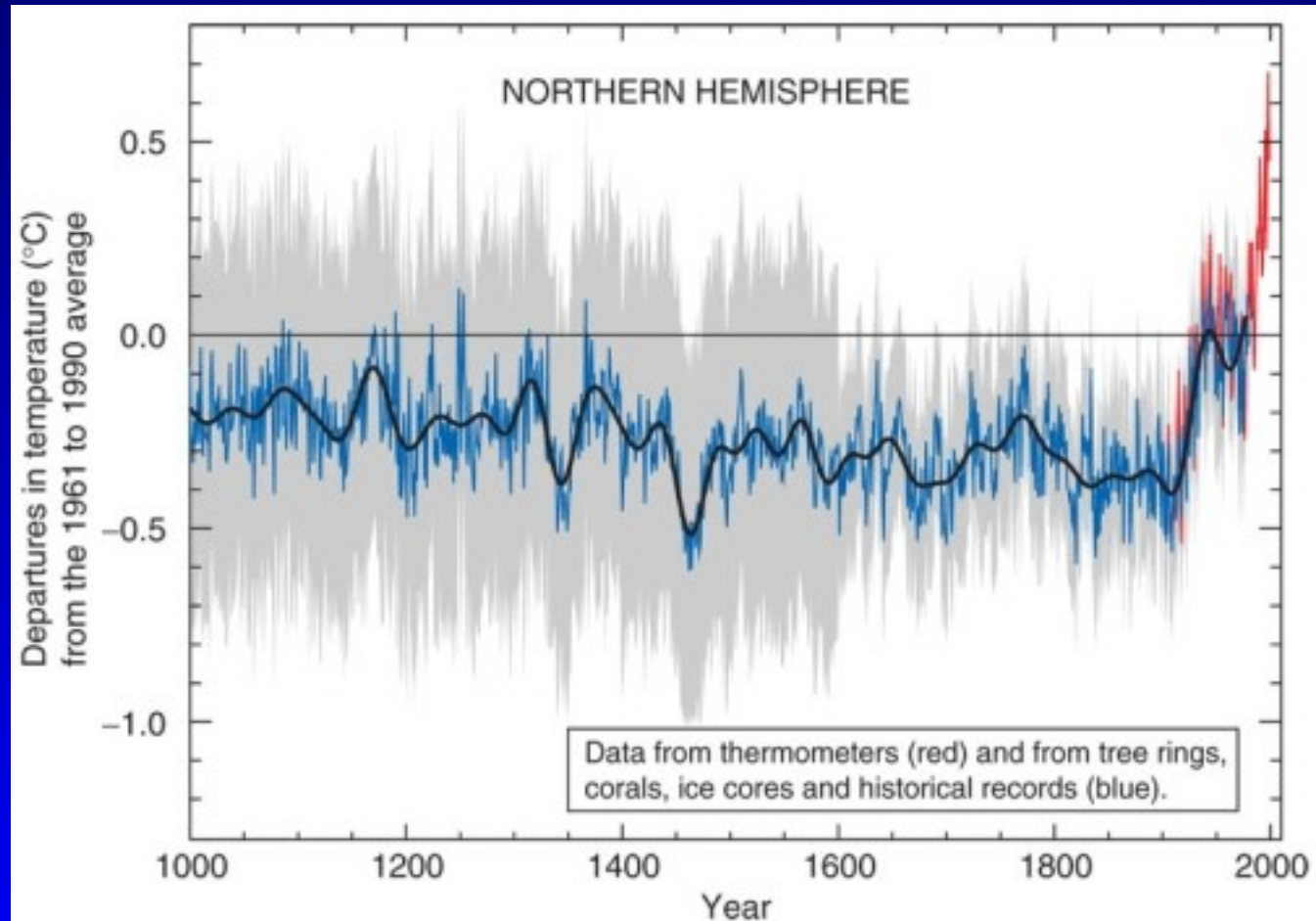
“Today, humans have driven up the concentration of carbon dioxide to about 380 parts per million—a value much higher than our world has seen in more than half a million years. (Graph derived from data extracted from an ice core recovered from the Vostok Station in Antarctica)”



What is the “Hockey Stick?”

A Cautionary tale of Politics and Science

1998-9 “MBH”
paper;
Michael E.
Mann (Penn
State),
Raymond S.
Bradley and
Malcolm K.
Hughes



ClimateGate?

In 2009, Scandal Struck...

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HOME U.S. WORLD BUSINESS POLITICS

Do E-Mails Reveal Scientist Claims On Climate Change are... **BUNK?**

Hackers break into servers of a major British climate change research facility and purportedly uncover e-mails urging scientists to 'hide the decline' of temperatures, manipulate data and silence skeptics.

NASA

30p GET YOUR DAILY EXPRESS FOR JUST 30p
SAVE 50P A WEEK ON YOUR DAILY & SUNDAY EXPRESS

DAILY EXPRESS

THE WORLD'S LARGEST CIRCULATION

8 INCHES OF SNOW ON WAY

Our scientists crack cancer genetic code

CLIMATE CHANGE 'LIES' BY BRITAIN

Now Russia accuses Met Office

How Nicole got her make-up in a mess

MAY 8 NIGHT 8PM FRIDAY 8M-9M

ClimateGate?

More from 2009...



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Climate change: this is the worst scientific scandal of our generation

Our hopelessly compromised scientific establishment cannot be allowed to get away with the Climategate whitewash, says Christopher Booker.



ClimateGate?

**The cornerstone of Climategate: The phrase,
“...hide the decline”**

From: Phil Jones

To: ray bradley, Mike Mann, Malcolm Hughes

Subject: Diagram for WMO Statement

Date: Tue, 16 Nov 1999 13:31:15 +0000

Dear Ray, Mike and Malcolm,

**Once Tim's got a diagram here we'll
send that either later today or first
thing tomorrow.**

I've just completed Mike's Nature **trick of adding in the real
temps to each series for the last 20 years (ie from 1981 onwards)
amd from 1961 for Keith's to **hide the decline**. ...**



Phil Jones

ClimateGate?

The cornerstone of Climategate, Continued

...

Mike's series got the annual land and marine values while the other two got April-Sept for NH land N of 20N. The latter two are real for 1999, while the estimate for 1999 for NH combined is +0.44C wrt 61-90. The Global estimate for 1999 with data through Oct is +0.35C cf. 0.57 for 1998.

Thanks for the comments, Ray.

Cheers

Phil



Michael Mann



ClimateGate?

Results of Mann investigation(s)

“The so-called ‘trick’ was nothing more than a statistical method used to bring two or more different kinds of data sets together in a legitimate fashion by a technique that has been reviewed by a broad array of peers in the field.”



ClimateGate?

Results of Mann Investigation(s)

February 2010: “Of four allegations, three were dismissed with the statement 'there is no substance to this allegation.' The fourth is an academic matter and has been referred to a panel of faculty peers.”

August 2011: “Finding no 'evidence of research misconduct,' the Arlington, Virginia-based National Science Foundation closed its inquiry into Mann, according to an Aug. 15, 2011 report from its inspector general. In February, Pennsylvania State University, where Mann is a professor of meteorology, exonerated him of suppressing or falsifying data, deleting e-mails and misusing privileged information...”



ClimateGate?

Results of 1st Jones Investigation

[Trick] appears to be a colloquialism for a "neat" method of handling data.

[hide the decline] was a shorthand for the practice of discarding data known to be erroneous.

the scientific reputation of Professor Jones and CRU remains intact.

- House of Commons Science and Technology Select Committee, "The Disclosure of Climate Data from the Climatic Research Unit at the University of East Anglia," March 31, 2010



ClimateGate?

Results of 2nd Jones Investigation

...the CRU tree-ring work has been carried out with integrity, and ... allegations of deliberate misrepresentation and unjustified selection of data are not valid.


...CRU did a public service of great value by carrying out much time-consuming meticulous work on temperature records at a time when it was unfashionable.

We saw no evidence of any deliberate scientific malpractice in any of the work of the Climatic Research Unit...

“Report of the International Panel set up by the University of East Anglia to examine the research of the Climatic Research Unit.” April 14, 2010.

ClimateGate?

What about the theft of email messages from working scientists?



FOX NEWS
.com

Fair & Balanced

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HOME U.S. WORLD BUSINESS POLITI

Do E-Mails Reveal Scientist Claims On Climate Change are... **BUNK?**

NASA

Hackers break into servers of a major British climate change research facility and purportedly uncover e-mails urging scientists to 'hide the decline' of temperatures, manipulate data and silence skeptics.



Mann Investigation Update

The Guardian (UK), 2 March 2012:

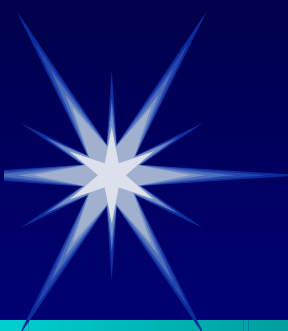
The two-year legal pursuit of the climate scientist, Michael Mann, by Virginia's climate-sceptic attorney general ran into a dead end at the state supreme court on Friday.

The court rejected Ken Cuccinelli's demand for Mann's email, research notes, and even handwritten memos from his time at the University of Virginia, ruling that the official did not have the legal authority to demand such records



Mann Investigation Update, Cont

The decision was seen as a victory for academic freedom, and a personal embarrassment for Cuccinelli, who had hoped to use his high-profile campaign against the climate scientist to raise his political profile ahead of a run for governorship. Cuccinelli, who dismisses the existence of climate change, has spent two years pursuing Mann through the courts, demanding access to his correspondence with dozens of researchers at other institutions and to grant applications for an investigation into possible fraud. Mann left the University of Virginia in 2005, and now works at Penn State University.



FOX NEWS was taken in by a Hoax... (the fake story has been on the web since 2006, according to Snopes.) The article vanished without retraction.



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Global Warming Activist Freezes to Death in Antarctica

Famed global warming activist James Schneider and a journalist friend were both found frozen to death on Saturday, about 90 miles from South Pole Station, by the pilot of a ski plane practicing emergency evacuation procedures.

"I couldn't believe what I was seeing", recounted the pilot, Jimmy Dolittle. "There were two snowmobiles with cargo sleds, a tent, and a bright orange rope that had been laid out on the ice, forming the words, 'HELP-COLD'."

One friend of Prof. Schneider told ecoEnquirer that he had been planning a trip to an ice sheet to film the devastation brought on by global warming. His wife, Linda, said that she had heard him discussing the trip with his environmental activist friends, but she assumed that he was talking about the Greenland ice sheet, a much smaller ice sheet than Antarctica.

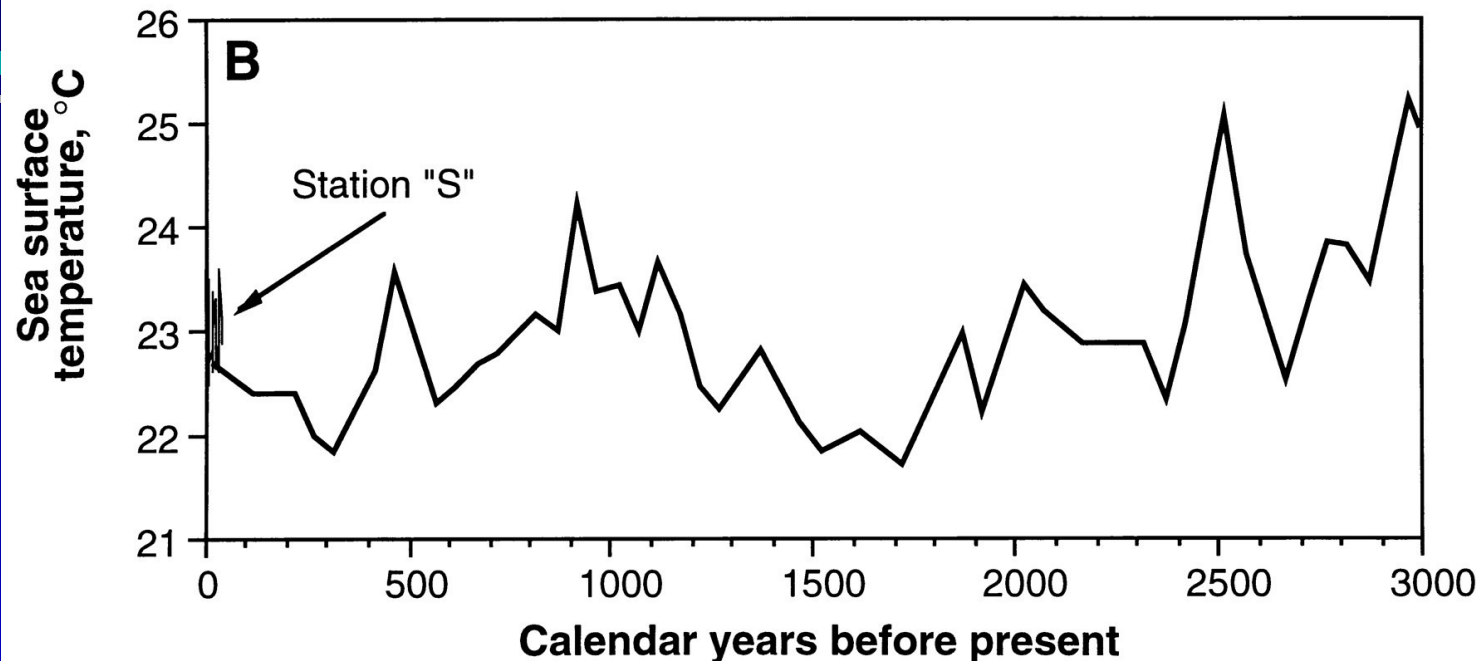
"He kept talking about when they 'get down to chili', and I thought they were talking about the order in which they would consume their food supplies", Mrs. Schneider recounted. "I had no idea they were talking about Chile, the country from which you usually fly or sail in order to reach Antarctica."

Apparently, while all of Prof. Schneider's friends were assuming that the July trek would be to Greenland, during Northern Hemisphere summer, his plans were actually to snowmobile to the South Pole - which, in July, is in the dead of winter.

Mr. Dolittle related how some people do not realize that, even if there has been warming in Antarctica, the average temperature at the South Pole in July still runs about 70 degrees F below zero. "Some people think that July is warm everywhere on Earth."

[Read The Full Article](#)
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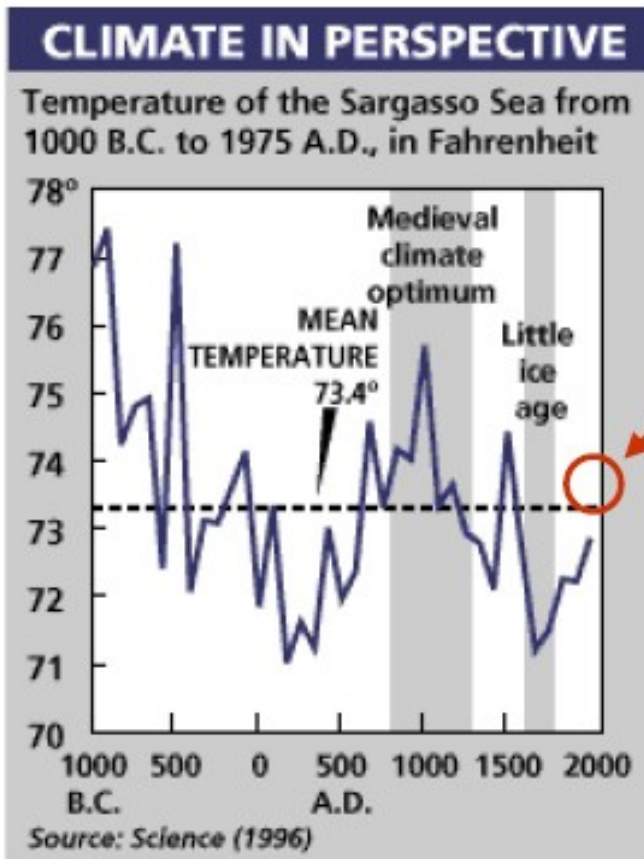
The Sargasso Sea Saga



Sargasso Sea paleoclimate data exactly as published by Keigwin in Science (1996). “On centennial and millennial time scales, SST variability has been greater than has been measured over the past four decades at Station 'S'.”

Sargasso Sea Saga

Robinson and Robinson (2000)



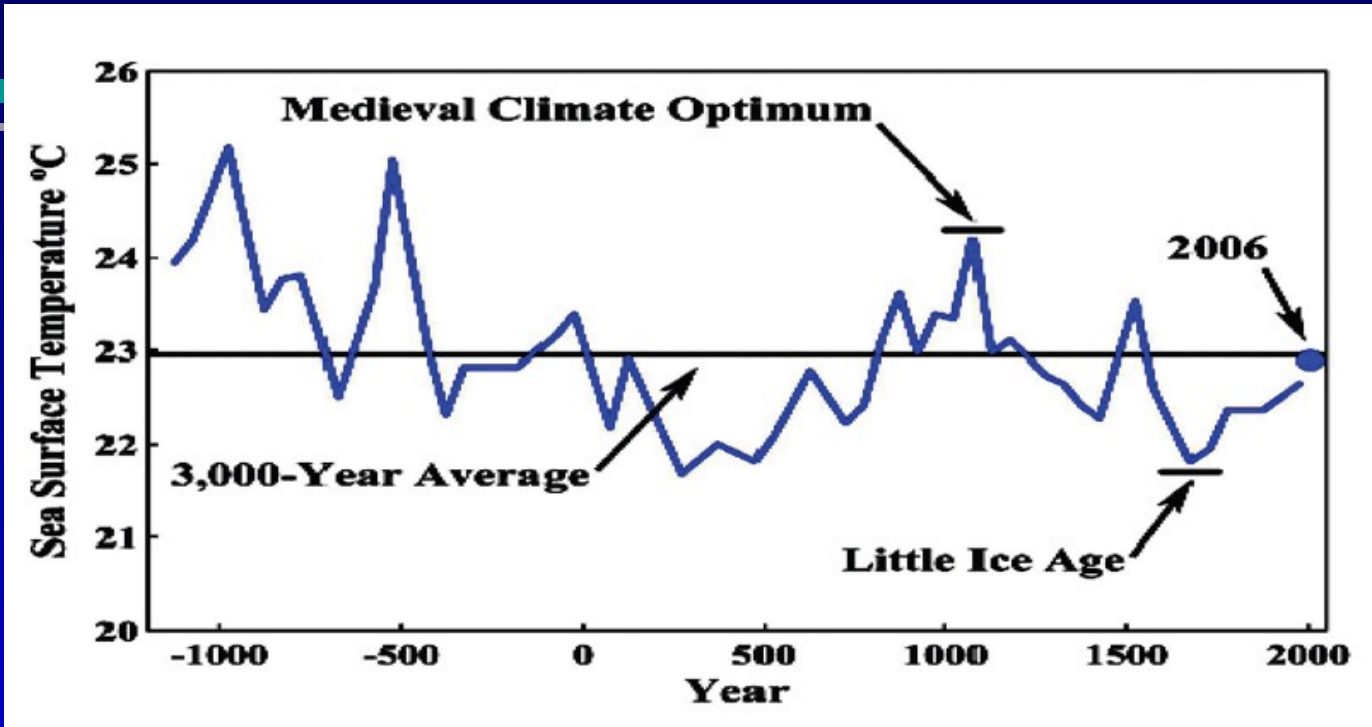
Global Warming is 300-Year-Old News
Arthur B. Robinson and Noah E. Robinson
Wall Street Journal, January 18, 2000

instrument data deleted

local temperature
misrepresented as
global temperature

“Earth temperatures are now
near the 3,000-year average and
clearly not unusual.”

The Sargasso Sea Saga

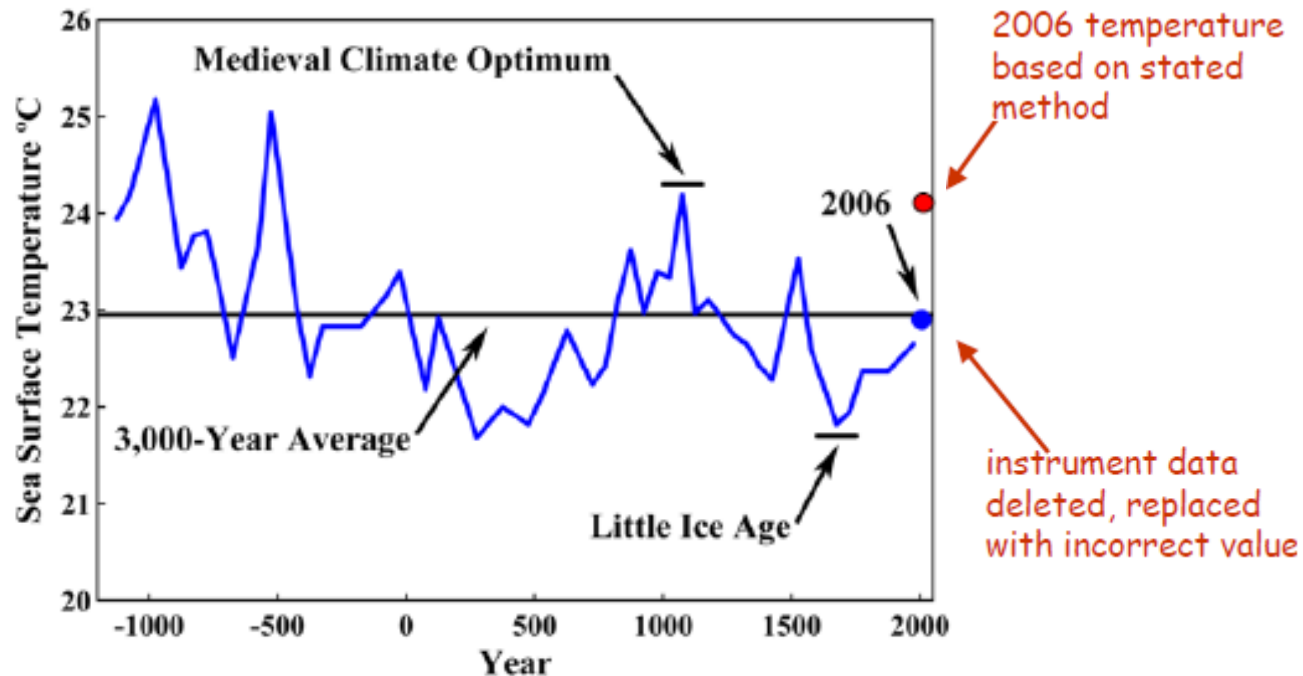


Sargasso Sea paleoclimate data exactly as published as Fig 3. in NIPCC's (anti AGW) 2008 pamphlet.

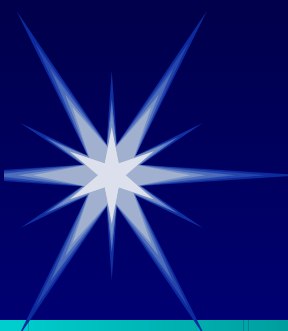
“...A value of 0.25 degrees C, which is the change in Sargasso Sea temperature between 1975 and 2006, has been added to the 1975 data in order to provide a 2006 temperature ...”

The Sargasso Sea Saga

"A value of 0.25 °C, which is the change in Sargasso Sea temperature between 1975 and 2006, has been added to the 1975 data in order to provide a 2006 temperature value." --*Robinson et al. (2007)*



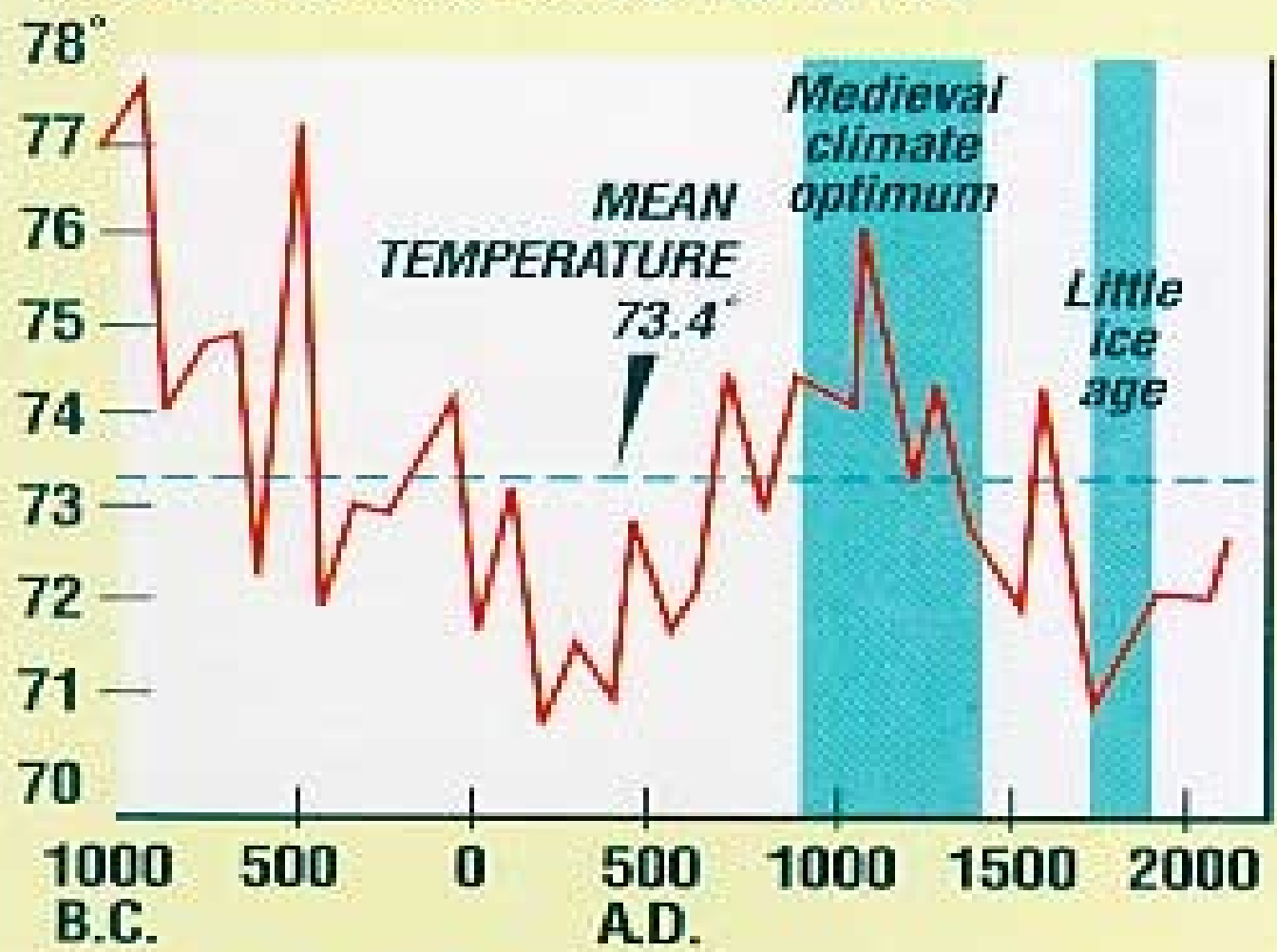
$T(1975) + 0.25 \text{ °C} = 24.13 \text{ °C}$. RR&S plotted it at 22.9 °C, more than a degree too low.



The Sargasso Sea Saga

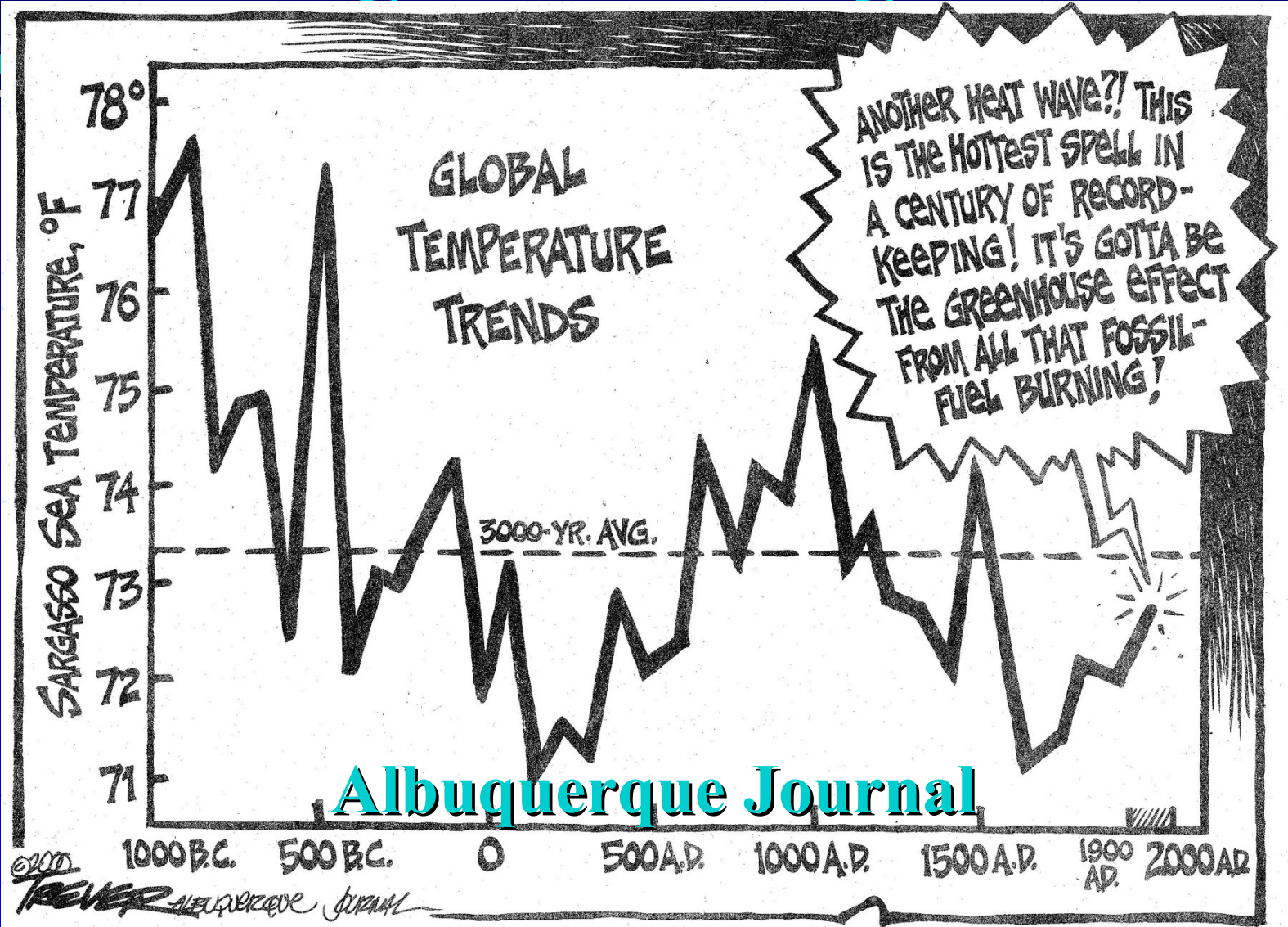
Climate in Perspective

Temperature of the Sargasso Sea from 1000 B.C. to 1975 A.D., in Fahrenheit



Source: Science (1996)

The Sargasso Sea Saga - Trever





The Sargasso Sea Saga

* Presented without attribution
** Attributed to the 1997 WSJ
article by the Robinsons.

“In fact, during the past 3,000 years there have been five extended periods when it was distinctly warmer than it is today.” www.youdebate.com (April, 2003). *

“In fact, during the past 3,000 years there have been five extended periods when it was distinctly warmer than it is today.” Bhuwan Prasad, University of Toronto Bulletin (Jan. 13, 2003). *

“During the past 3,000 years, there have been five distinct periods when it was warmer than it is today.” National Center for Policy Analysis (NCPA) Idea House, (2001). **

“During the past 3,000 years there have been five extended periods when it was distinctly warmer than it is today.” The Fifty Minute Hour (Dec. 7, 2001). *

“During the past 3,000 years, there have been five extended periods when it was distinctly warmer than today.” Raymond Keating, Testimony to House Small Business Committee (June 4, 1998). **

“In fact, during the past 3,000 years there have been five extended periods when it was distinctly warmer than it is today.” Rob Kremer, Brainstorm Magazine (April, 1998). *

“During the past 3,000 years, there have been five extended periods when it was distinctly warmer than today.” Robinson & Robinson, The Wall Street Journal (Dec. 4, 1997). *



Posing as scientists, credentials inflation

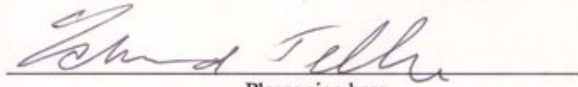
Global Warming Petition Project

31,486 American scientists have signed this petition, including 9,029 with PhDs

Petition

We urge the United States government to reject the global warming agreement that was written in Kyoto, Japan in December, 1997, and any other similar proposals. The proposed limits on greenhouse gases would harm the environment, hinder the advance of science and technology, and damage the health and welfare of mankind.

There is no convincing scientific evidence that human release of carbon dioxide, methane, or other greenhouse gases is causing or will, in the foreseeable future, cause catastrophic heating of the Earth's atmosphere and disruption of the Earth's climate. Moreover, there is substantial scientific evidence that increases in atmospheric carbon dioxide produce many beneficial effects upon the natural plant and animal environments of the Earth.


Please sign here

Please send more petition cards for me to distribute.

My academic degree is B.S. M.S. Ph.D. in the field of PHYSICS



Posing as scientists, credentials inflation

Albert S. Abdullah, DVM

Ava V. Ackerman, DVM

George C. Alexander, DVM

Madelyn H. Allen, DVM

Robert G. Allen, DVM

Robert L. Amster, DVM

Lynn C. Anderson, DVM

Donald Applegate, DVM

James R. Armstrong, DVM

Robert Arnold Jr., DVM

Gene H. Abels, MD

Alan V. Abrams, MD

Dwight L. Adams, MD

Anthony W. Adams, MD

Richard W. Adams, MD

Albert H. Adams, MD

Rusty Adcock, MD

Joseph E. Adducci, MD

John H. Adrain, MD

Robert F. Agnew, MD ...etc.



The “Wegman Report”



In 2006 a team of statisticians led by Edward Wegman, chair of the National Academy of Sciences’ (NAS) Committee on Applied and Theoretical Statistics, was assembled at the request of U.S. Rep. Joe Barton and U.S. Rep. Ed Whitfield.




The “Wegman Report”



Findings: MBH98 and MBH99 were found to be "somewhat obscure and incomplete" and the criticisms by McIntyre and McKittrick were found to be "valid and compelling.";

Overall, the committee rejected Mann's assessment that the 1990s was the hottest decade of the millennium, and that 1998 was the hottest year of the millennium.



Cut to 2006, Barton hearing with Wegman



On NPR.org:

<http://www.npr.org/templates/story/story.php?storyId=5569901>
(2:40)

Asked by Rep. Jan Schakowsky about the greenhouse mechanism, Wegman replied: “Carbon dioxide is heavier than air. Where it sits in the atmospheric profile, I don't know. I'm not an atmospheric scientist to know that. But presumably... if the carbon dioxide is close to the surface of the earth, it's not reflecting a lot of infra-red back...”



Cut to 2010, “ClusterPuck”

Mark Boslough, SNL:
“In 2005, Sen. James Inhofe (R-OK) called global warming the 'greatest hoax ever perpetrated on the American people.' Rep. Joe Barton, (R-TX) joined the assault by harassing three respected climate scientists, ...”





Cut to 2010, “ClusterPuck”

“Edward Wegman—a statistician with no background in climatology and little understanding of physics—led the investigation. Wegman’s team submitted a report that criticized the statistical methods used by the scientists. Denialists embraced this criticism, claiming that the hockey stick has been discredited and declaring that global warming was a fraud. ...”



Cut to 2010, “ClusterPuck”

“Scientists play by well defined rules. They require peer reviewed publication, logic, and evidence. Science is like a hockey game that only works if fans understand it and teams play by the rules. Inhofe and Barton knew their side could not win against a world-class 'hockey team.' They chose instead to create confusion and sow doubt. ...”



Cut to 2010, “ClusterPuck”

“Their tactic was to act like unruly fans and throw hundreds of decoy pucks onto the ice and then take advantage of the chaos. The idea was simply to delay any action in order to protect vested interests in the status quo. They didn’t have to win the game. All they needed to do is disrupt it by turning it into one big ‘ClusterPuck’. ...”



Cut to 2010, “ClusterPuck”

“Scientists were understandably angry and were not always circumspect in their private messages. They did not expect political activists—willing to tap phones and break into computers—to steal their correspondence. ... This non-scandal became known as 'ClimateGate.' ...”



Cut to 2010, “ClusterPuck”

“The actual scandal is associated with the Barton investigation. [In Jan. 2010] a blogger called 'Deep Climate' demonstrated that, in a cruel irony, the Wegman team actually plagiarized from a textbook written by one of the scientists [Bradley] under investigation. Even worse, they changed the meaning of the text they stole. ...”



Cut to 2010, “ClusterPuck”

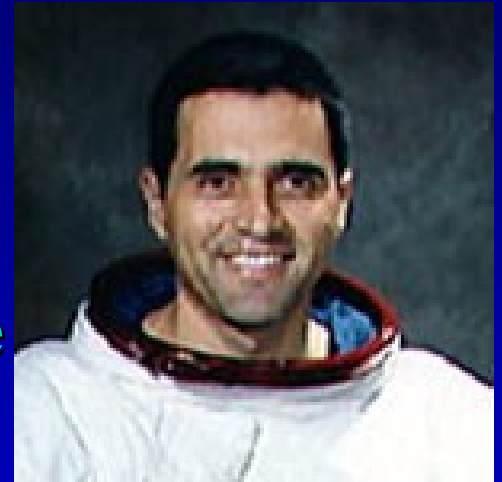
“The supposedly unbiased referees of the game were part of the ClusterPuck. ... Will the media investigate and report the 'ClusterPuck' scandal as aggressively as they did for the 'ClimateGate' non-scandal? Or is there a journalistic double standard that favors deniers?”



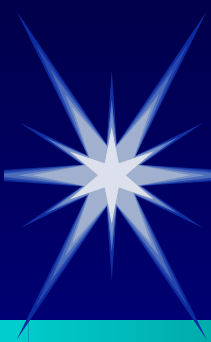
A word from Heartland Institute



**Mark Boslough's column
"Climate-change deniers
ignore science" in the
January 24th, 2011 Santa Fe
New Mexican:**



Regarding former astronaut and senator Harrison Schmitt, who had been nominated for the secretary of Energy, Minerals and Natural Resources Department by Governor Susana Martinez



A word from Heartland Institute

Boslough: “In 2009, Schmitt submitted a white paper to NASA. He stated, 'Arctic (sic) sea ice has returned to 1989 levels of coverage.' I wrote to him, politely pointing out that this was not true, and directing him to the data from the National Snow and Ice Data Center (the ice extent in 2009 had not recovered, and as of this writing is at an all-time winter low). ...”



A word from Heartland Institute

Boslough, continued: “He [Schmitt] responded, but never made the necessary correction. Anyone can make a mistake, but scientific integrity requires that authors own up to mistakes and fix them.”



A word from Heartland Institute

A week later, Joseph Bast of the Heartland Institute (which Boslough describes as a “right-wing organization that actively engages in attacks on objective scientific findings”), published an opposing op-ed in the New Mexican. January 31, 2011

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INSTITUTE** 



A word from Heartland Institute

Bast wrote “Unlike Boslough and his allies, global-warming realists don't, by implication, compare people who disagree with them to Holocaust **deniers. That is a disgusting rhetorical trick that is likely and perhaps even calculated to inflame the emotions of people, some of whom may be mentally unbalanced.”**

A word from Heartland Institute

Who else says Heartland Institute supports "Deniers" ?

THE HEARTLAND
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The Heartland website proudly recommended a parody video named "I'm a Denier" at the same time they attacked Mark Boslough for using "denier" in describing Heartland.



It's a parody of "I'm a Believer" written by Neil Diamond and performed by the Monkees. This version was written by Elmer Beauregard and Brian D. Smith and performed by Elmer and the M4GW players. This song is in honor of all the new Republican Freshman entering Congress and the Senate most of whom are Deniers and proud of it.



A word from Heartland Institute

National Snow and Ice Data Center, Santa Fe New Mexican, Feb. 7, 2011:

Regarding Mark Boslough's Jan. 25 My View, 'Climate-change deniers ignore science,' and in subsequent responses, there was discussion of Harrison Schmitt's statement in 2009 that Arctic sea ice had recovered to 1989 levels. Since data from the National Snow and Ice Data Center were cited, we feel it worthwhile to clarify the issue for readers.



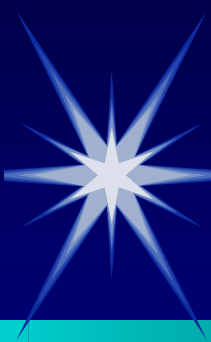
A word from Heartland Institute

National Snow and Ice Data Center, cont'd

Sea ice conditions can vary from month to month, but overall we see the continuation of a strong downward trend. You can read our 2009 season analysis at

nsidc.org/news/press/20091005_minimumpr.html.

While 2009 Arctic sea ice extent did briefly exceed 1989 levels in April and May, it was substantially less than 1989 the rest of the year.



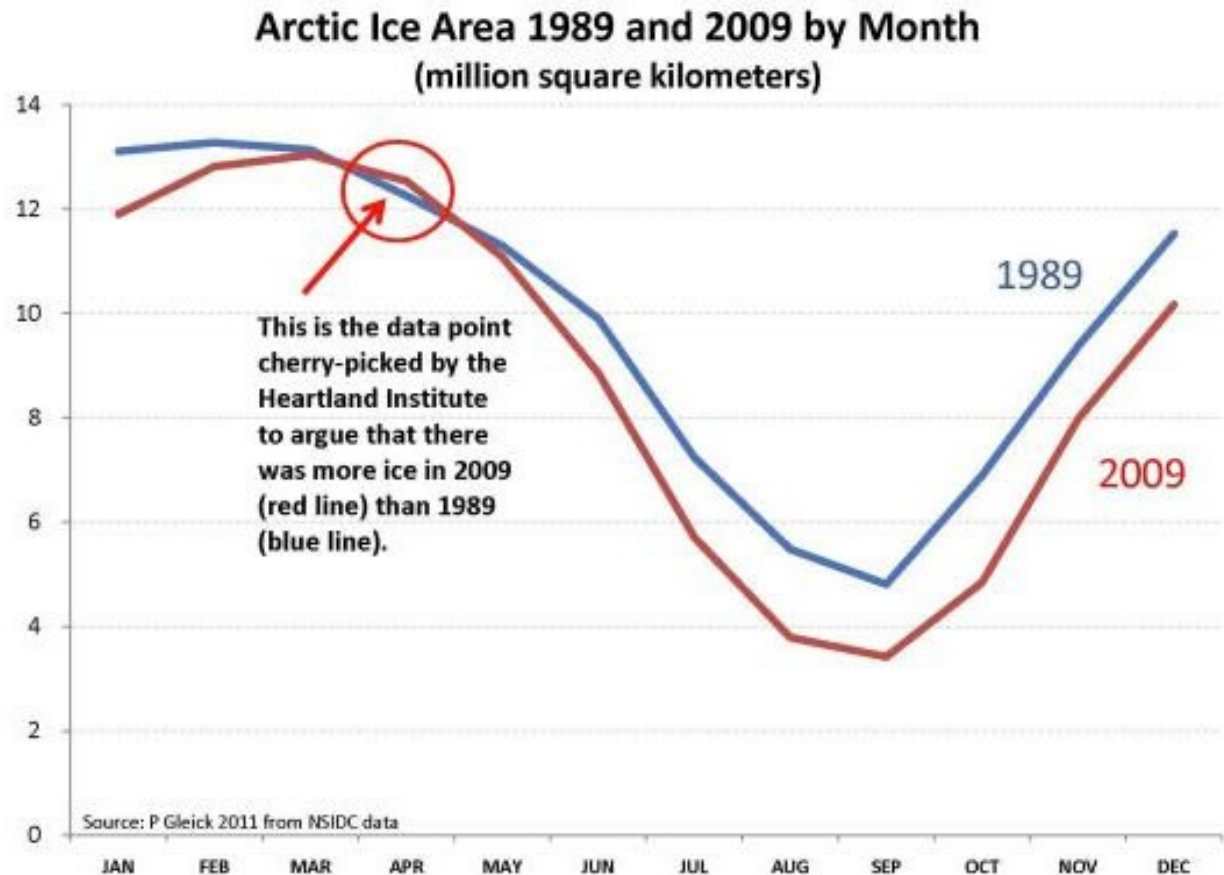
A word from Heartland Institute

National Snow and Ice Data Center, cont'd

The 2009 maximum extent, minimum extent, and annual average extent values were all well below 1989. Based on these facts, it would be incorrect to suggest that 2009 represented a recovery of Arctic sea ice to 1989 levels. ...Walt Meier and Mark Serreze are senior research scientists at National Snow and Ice Data Center, University of Colorado at Boulder.”

A word from Heartland Institute

The Graph





And Schmitt's nomination?

The Albuquerque Journal reported on Feb. 10th that “Harrison Schmitt, a former NASA astronaut who was chosen by Gov. Susana Martinez to head up the state's Energy, Minerals and Natural Resources Department, has withdrawn his nomination after a squabble with the Senate Rules Committee over background checks. Martinez's office just announced the news, which comes slightly more than one month since Schmitt's appointment was first announced. ...”



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New from Heartland: “FakeGate”



Peter Gleick conned Heartland into revealing sensitive strategy documents.

As part of NCSE's expansion to defend the teaching of climate science, Gleick had earlier agreed to join NCSE's board of directors. His resignation was accepted.



New from Heartland: “FakeGate”

What was obtained from Heartland?

"Leaked documents suggest that an organization [Heartland] known for attacking climate science is planning a new push to undermine the teaching of global warming in public schools, the latest indication that climate change is becoming a part of the nation's culture wars," reported The New York Times (February 15, 2012).



New from Heartland: “FakeGate”

From Heartland's own site:

<http://heartland.org/media-library/QPR/QPR-2012-1Q-web.pdf>

“In 2012 we are pursuing four projects on global warming. ... The second project is creation of a global warming curriculum for K-12 schools. Many people lament the absence of educational material that isn’t alarmist or overtly political. Late last year, we found a curriculum expert who is also an expert on the global warming controversy. We think he can finally break the code on getting sound science and economics into classrooms. ...”



New from Heartland: “FakeGate”

From John Mashey at Desmogblog.com:

<http://www.desmogblog.com/fakeducation-years-heartland>

The NY Times, LA Times and many others criticized Heartland’s inept plan to hire David Wojick to create an alternate-reality K-12 climate science curriculum. But Heartland’s school ground attack on science is nothing new ... One of the best known Heartland incursions into the schoolyard occurred in 2008, when the institute mailed teaching materials to 11,250 schools in Canada.





New from Heartland: “FakeGate”

Mashey: In 2009, Science derided Heartland for sending copies of *The Skeptic’s Handbook* to 14,000 US school board officials. Heartland’s *Environment and Climate New[s]* mocked one school board president for his refusal to use it. But Heartland began its classroom misinformation campaign much earlier. During 2002-2003, E&CN ran ads exhorting readers to “discuss an E&CN article with your school-age child... and his or her teacher.” I hope parents avoided the common “Smoker’s Lounge” ads in those issues.



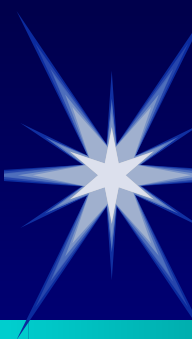
Fact-checking Nugget:

Mashey, March 27, 2012:

And it's always worth remembering that Heartland President Joe Bast vigorously defended Joe Camel (the most successful campaign to get kids to smoke younger) ... And then asked for more money. The only real surprise for me in 2012 documents was fact that Heartland is now getting more cigarette money than in 2001.

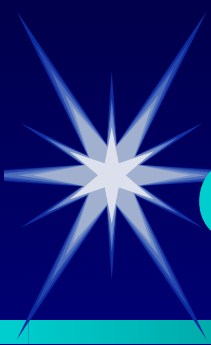
Let us know how the class goes.

(Back to skiing.)



Conclusions

At NMSR, Henry Pollack talked about the need for leveling the playing field between carbon-based and non-carbon-based energy sources; currently, he said carbon-based fuels are dumping CO₂ into the atmosphere as if it were an 'open sewer,' with no penalties assessed for this very real pollution.



Conclusion

Regarding those who say that climate warming will continue even if carbon emissions were stopped today, Pollack said it is a matter of degree. If we act now, the oceans may rise several inches, displacing millions of people. But, failing to act now could mean the oceans will rise several feet, displacing perhaps billions.



Conclusion

In regards to the East Anglia e-mail “scandal”, Pollack pointed out that global climate science is performed by many agencies and universities besides this small school. Even if every scientist at East Anglia was a conniving cheater, many scientists at NOAA, NSF, IPCC, and universities worldwide are not. While some of the leaked exchanges were quite rude, Henry pointed out that Isaac Newton may have also been rude, but he was correct about gravity regardless.”