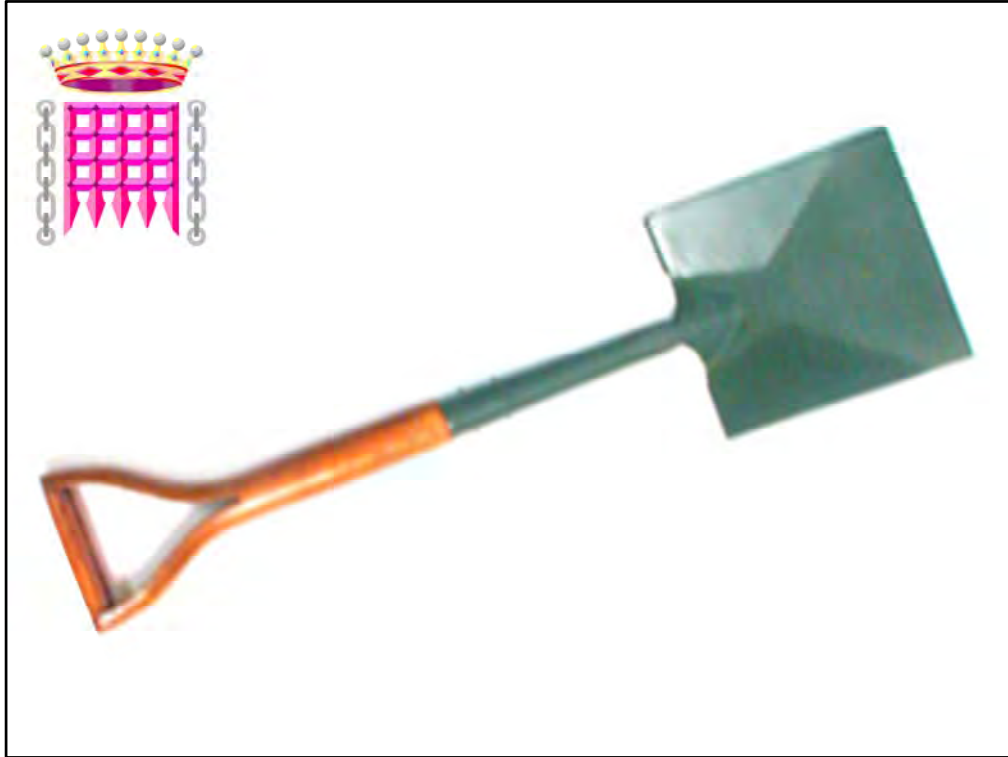


The Portcullis, symbol of royalty and nobility since the Middle Ages, surmounted by the Vicecomital Coronet of the Viscounty of Brenchley, and superimposed on an infrared image of the Sun, source of almost all of our planet's warmth. These slides, each with a brief description supplying additional information, were prepared by The Viscount Monckton of Brenchley to illustrate his lectures to the peoples of Canada and of the United States during a lecture-tour on the climate question in September-October 2009. Comments and questions are welcome at monckton@mail.com. For up-to-date information on the climate debate, visit the website where Lord Monckton's climate papers are regularly published: www.scienceandpublicpolicy.org.



Apocalypse? NO! is the title of my full-length feature movie on the climate, based on a presentation I gave in the historic Chamber of the Cambridge Union Society in October 2007. The thesis of the movie, and of this presentation, is that many lies have been told about the climate; that the truth matters, or millions could even die, as they have in the past when unscientific policy decisions were taken for political reasons; that the climate is not responding as predicted by the alarmist faction; and that a stream of peer-reviewed scientific papers published since the UN climate panel's last quinquennial assessment report in 1997 has demonstrated that the warming effect of anthropogenic increases in atmospheric CO₂ concentration is one-seventh of the UN's central estimate. In short, "global warming" in response to a CO₂ doubling would be just 0.5 C (<1 F), compared with the UN's central estimate of 3.3 C (>6 F). I am most grateful to the Friends of Science (www.friendsofscience.org) and to the Committee for a Constructive Tomorrow (www.cfact.org) for their kindness in sponsoring this lecture-tour across the North American continent. I am often asked who has funded those who kindly sponsor my climate research and teaching. The answer is that I neither know nor care. I say what I say because, on the evidence which I here present, I think that what I say is true.



Another important preliminary point. Science is not, repeat not, done by “consensus”. True, more than 31,000 scientists across all disciplines have individually signed the Oregon Institute for Science and Medicine’s statement that “global warming” is not a global crisis. But science is done by theoretical demonstration (i.e. absolute mathematical proof) where possible, and otherwise (and it’s usually otherwise) by the scientific method, an iterative process of proposing a testable hypothesis, other scientists shooting it down, unsound hypotheses (like “global warming”) failing, and sound hypotheses living to fight another day. The gentleman on this Iraqi 10,000-dinar banknote, Abu Ali Ibn al Hussain Ibn al Hussain Ibn al-Haytham, was the first proponent of what we now recognize as the scientific method. He certainly did not believe science was done by “consensus”, and nor should we.




A horse goes into a bar, and the barman says, "Why the long face?" The Peer of the Realm nursing his 14th pint at one end of the bar looks up and says, "Because it's a horse, you idiot." The powerful faction promoting the "global warming" scare is skilled in making the obvious seem absurd and the absurd seem obvious. The purpose of this presentation is to ensure that the obvious is visibly obvious and the absurd visibly absurd. All of the points we shall be making are simple, straightforward, uncomplicated points, easily verifiable by reference to the peer-reviewed scientific literature, and to the published data on the climate.



This is the view from my library window at our place in the Highlands of Scotland. I wanted you to see this because I wanted to make the point that none of us wants to screw up the planet by making too much mess of our environment. There are many real environmental problems, and I don't want anyone to get the impression that I'm suggesting there aren't any. But, as I shall show in this presentation, "global warming" isn't one of them.




Another important preliminary point. Science is not, repeat not, done by “consensus”. True, more than 31,000 scientists across all disciplines have individually signed the Oregon Institute for Science and Medicine’s statement that “global warming” is not a global crisis. But science is done by theoretical demonstration (i.e. absolute mathematical proof) where possible, and otherwise (and it’s usually otherwise) by the scientific method, an iterative process of proposing a testable hypothesis, other scientists shooting it down, unsound hypotheses (like “global warming”) failing, and sound hypotheses living to fight another day. The gentleman on this Iraqi 10,000-dinar banknote, Abu Ali Ibn al Hussain Ibn al Hussain Ibn al-Haytham, was the first proponent of what we now recognize as the scientific method. He certainly did not believe science was done by “consensus”, and nor should we.



Scientific method

“The improver of natural knowledge absolutely refuses to acknowledge authority, as such. For him, skepticism is the highest of duties; blind faith the one unpardonable sin.”

T.H. Huxley



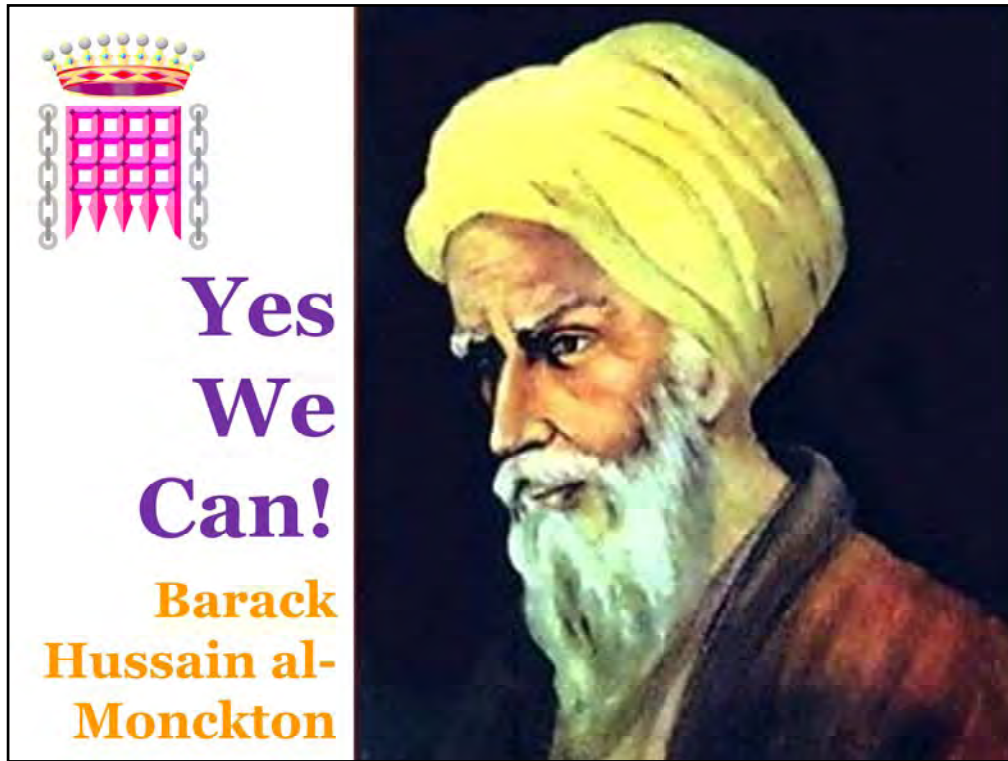
“Global warming” profiteers tend to use the term “skeptic” as an insult, as though science were a primitive superstition or taboo to which all unthinking people must automatically defer. However, as Huxley made plain, skepticism is the duty of the scientist. It is essential to the scientific method.



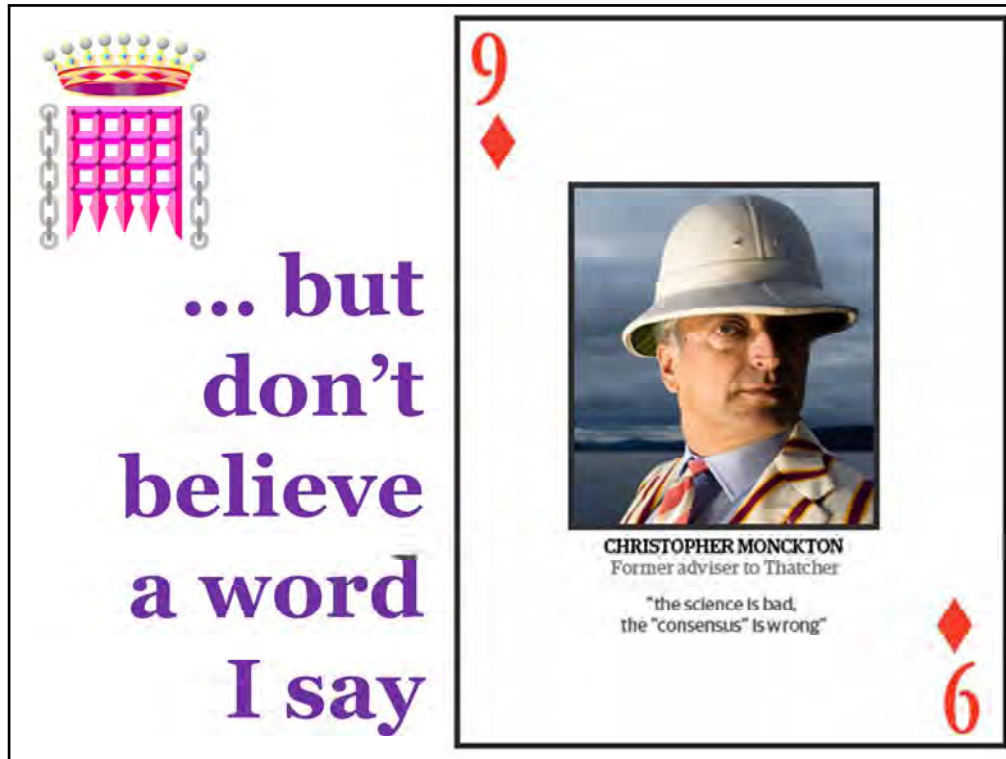
I had the honor to work for Margaret Thatcher in her Policy Unit at 10 Downing Street for four years while she was Prime Minister of the United Kingdom. She never made policy on the basis of what she or anyone wanted to be true. As a scientist herself, she made policy on the basis of what was demonstrably true. She used to say, “You have to get the big ones right, dear.” As we shall see, lives can depend on getting major policies like “global warming” right.



This bizarrely-dressed gentleman, believe it or not, is the chief of policymaking for the UK Conservative Party, which, at the time of writing, is likely to take office as Britain's next government. He is a lifelong atheist. When I congratulated him on having gotten religion, in that he is now a true-believer in the "global warming" superstition, he had the grace to blush. When I asked him how come he'd become religious, he said – in a touching act of religious faith – "We cannot question what the scientists say."



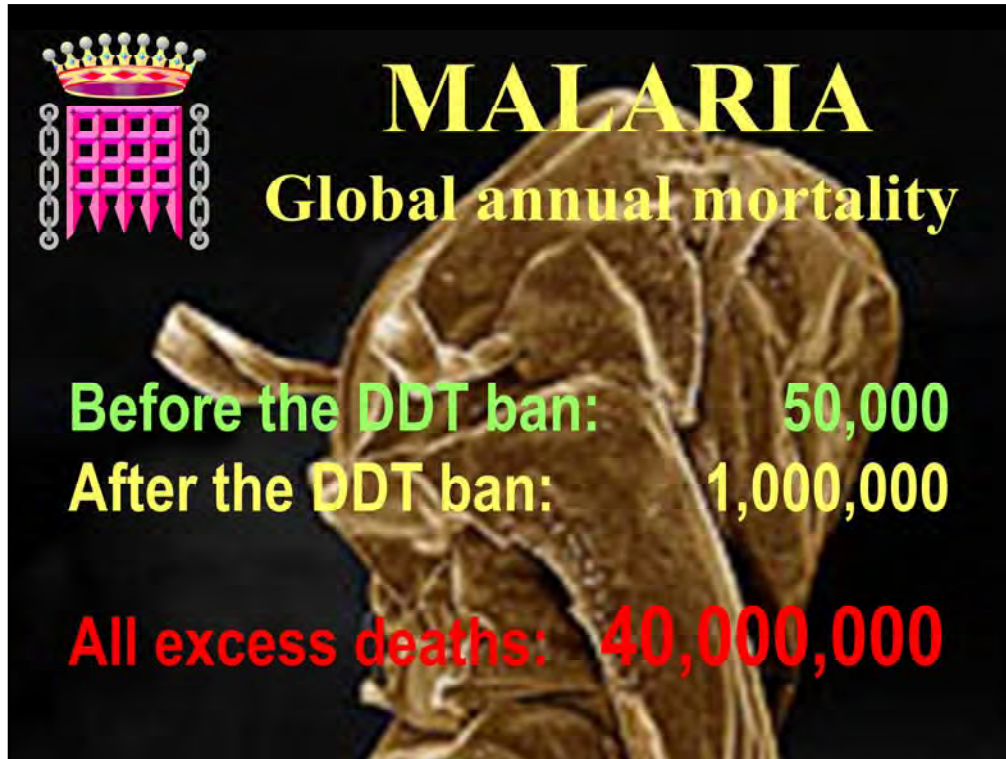
Oliver Letwin says, "We cannot question what the scientists say." But Barack al-Monckton says, "Yes We Can!" Anyway, we're going to.



Don't believe a word I say. As my detractors among the Gorons and bedwetters of the doom-and-gloom faction like to remind everyone, I have no scientific qualifications (except a degree in classical Architecture from Cambridge, which included a study of science, math, architectural and engineering principles, the scientific method, etc.), so I have more qualifications in the scientific field than – say – Al Gore. I'm writing this from an elegant library designed by me, and it hasn't fallen down yet. However, my approach in this presentation will be to give you the facts and data from the published scientific sources, including the major climate datasets and the leading peer-reviewed journals. So you don't need to believe anything I say, because all of it is independently verifiable. You can check it out for yourself.



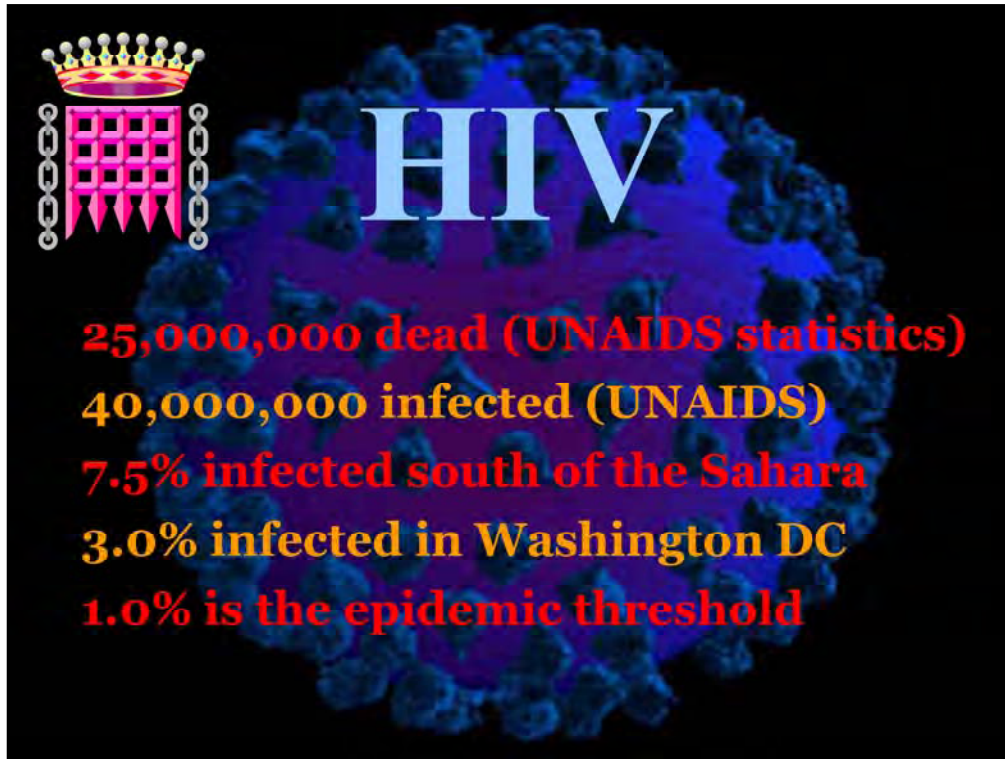
Quaesivit enim Pilatus, Quid est veritas? Atque ita dixit iste quia dixerat ille Salvator Mundi, Ego in hoc natus sum, et ad hoc veni in mundum, ut testimonium perhibeam veritati. Omnis qui est ex veritate audit meam vocem. Pilate's question. "What is the truth?", is the only question worth asking. It is the question implicit in every question. Jestig Pilate, as Francis Bacon records in one of his great Essays, did not tarry for an answer. However, the truth is essential in policymaking, for otherwise millions may be hurt or even killed, as we shall briefly see.



One of the greatest tragedies in policymaking was the decision of the United States, followed rapidly by the rest of the world, to ban DDT some 40 years ago. DDT was – and is – the only effective agent against the *Anopheles* mosquitoes that are the vectors for the *plasmodium* parasites that cause malaria. The inventor of DDT was awarded the Nobel Prize, because his invention had saved the lives of more people than perhaps any other single invention in the history of medicine, with the possible exception of penicillin. The widespread use of DDT in the malarial countries had succeeded in reducing malaria mortality to 50,000 cases a year worldwide – a large number, but nothing like what it had been before. Then DDT was banned, on the false ground that it might cause cancer in humans (it is in fact safe enough to eat by the tablespoonful with no ill effects, though this is not recommended) and that it might cause thinning of the eggshells of certain rare birds (the paper that purported to establish this had indulged in some serious data-tampering). Yet the same political faction that now insists we shut down the economies of the West then insisted that DDT had to be banned. Result: annual malaria deaths rose from 50,000 to 1 million. In the following 40 years, some 40 million people – most of them children – died miserably, and pointlessly, simply to indulge that sullen faction, which continued to refuse to allow the ban to be lifted long after the slaughter that the ban had caused had been amply demonstrated.



Eventually, after widespread pressure from me and others, the World Health Organization decided to face down the political faction that had insisted on the DDT ban. Dr. Arata Kochi of the World Health Organization announced on 15 September 2006 that the WHO was lifting the DDT ban, and was once again putting it on the front line of the defence against the mosquito. He said, “Quite often in this field politics comes first and science second. We must take a position based on the science and the data.” This position was only taken after 40 million people – most of them children – had been pointlessly killed.



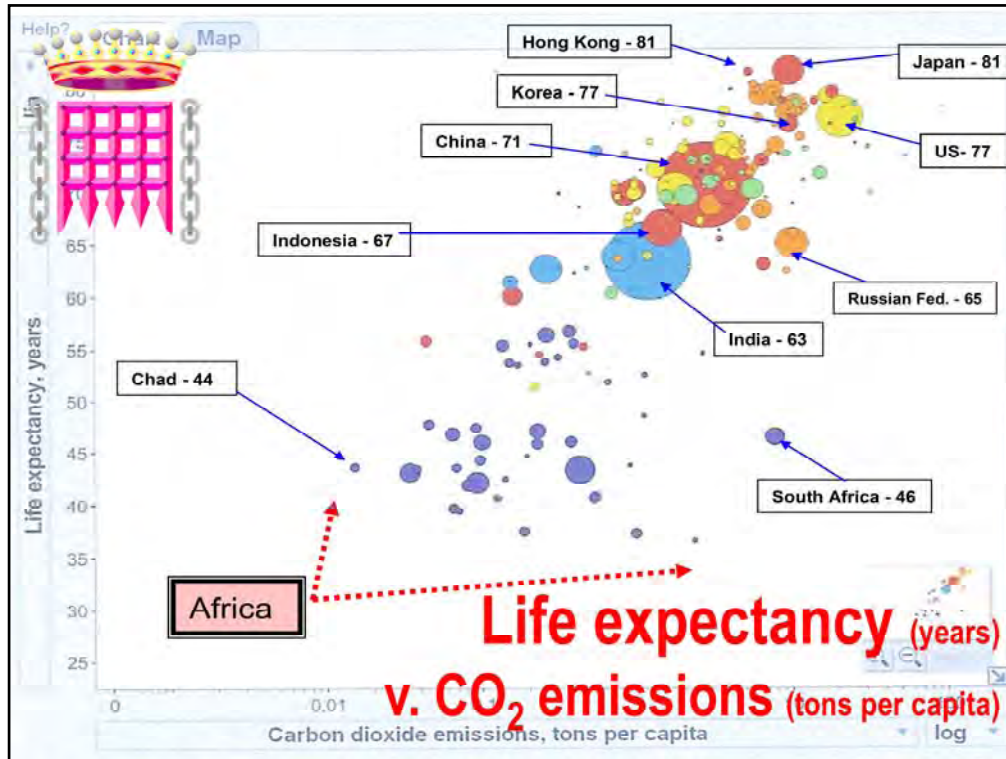
Another catastrophic failure of international policy-making that is attributable to the globalization of group-think in the 20th century was the decision of medical authorities worldwide not to handle the HIV epidemic just like any other fatal, incurable infection – to identify all carriers and to isolate them immediately, compulsorily, and permanently, though humanely, in order to prevent widespread death. The same political faction that now promotes the “global warming” scare campaigned successfully to prevent this standard public-health measure from being put into place. The consequences of this policy failure are shown in this slide – 25 million dead, and 40 million infected, with no end to the epidemic in sight.



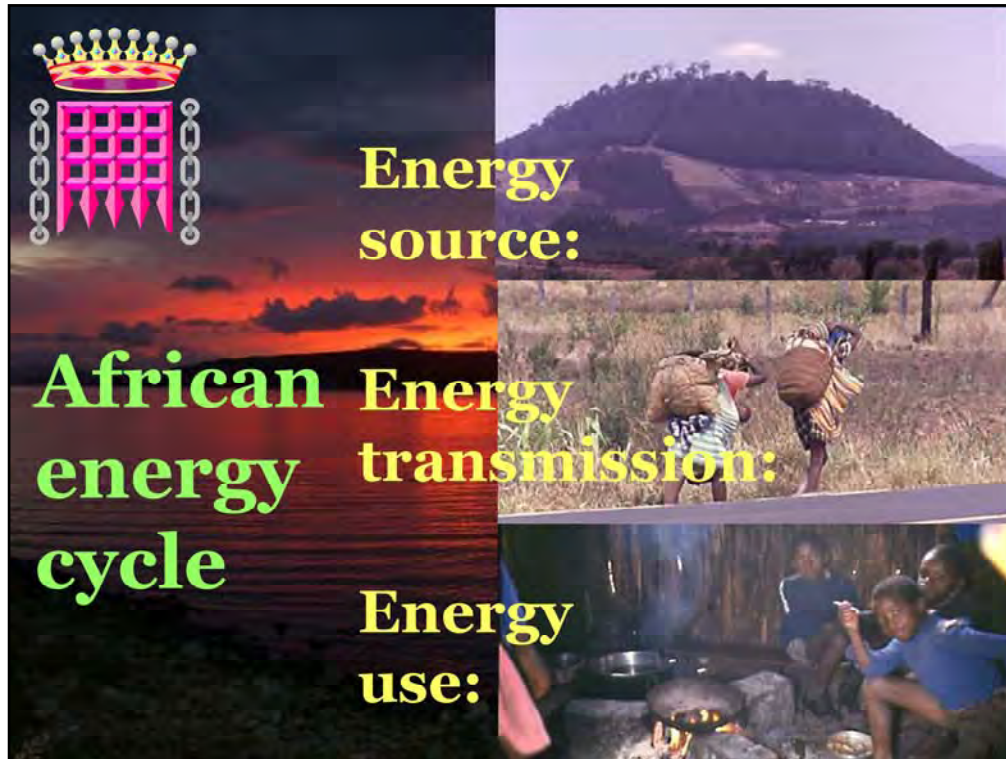
The human cost of policy failure is agonizing. It is all too easy to say – as the world's policymakers foolishly said – that we must do nothing to infringe the civil liberties of those who have become infected, and then to overlook not merely the liberties but the lives of those who, as a result of the failure to make HIV a notifiable disease, become infected when the traditional public-health measures would have protected most of them from ever coming into contact with the virus that will eventually kill them. The mother in this picture was herself infected. Her two previous children, to whom she transmitted the infection in the womb, both died. This child, visibly sick in this agonizing photograph, died a month after it was taken, and his mother died a year later.



How, then, is the “global warming” scare killing millions? “Global warming” itself is killing no one, for warmer weather is better than colder, if you are – as we and the polar bears are – a warm-blooded animal. However, the dash for biofuels that sprang from the scare has taken one-third of the agricultural land of the US from growing food for people who need it to growing biofuels for clunkers that don’t. The emaciated Haitian in this picture is making mud-pies with real mud, which he will sell to his starving neighbors for 3 US cents each. When I told an audience of Government, Opposition and business leaders in Madrid this story in 2008, a lady in the front row burst into tears. She had just returned from a mercy mission to Haiti, where, she said, the doubling of world food prices in just two years that the World Bank has attributed almost exclusively to the biofuel scam had made even mud-pies unaffordable, and tens of thousands of Haitians were starving. There have been food riots in a dozen regions of the world over the past two years: they have gone almost entirely unreported in the Western news media, which has been too busy reporting every drip of every icicle putatively melting in Greenland.



This telling graph shows a direct correlation – with a plausible causal connection – between the tonnage of CO₂ emissions per capita, country by country, and the life expectancy in that country. The more fossil fuels a nation burns, the longer its people live.



This is the African energy cycle: trees are cut down, leaving the continent increasingly deforested (the resultant atmospheric desiccation is a significant reason for the ablation of the Furtwangler Glacier on the summit of Kilimanjaro, for instance), and the tree-fellers carry the lumber home on their backs, burning it in smoke-filled huts without fireplaces or chimneys, so that lung diseases arising from smoke inhalation are commonplace. Burning fossil fuels on an industrial scale liberates Africans from this energy cycle of despair.



To me, one of the most startling phenomena in the climate debate is the systematic, brazen, and increasingly desperate mendacity of those peddling the “official” line. So in this part of the presentation we’re going to flick rapidly through some of the more egregious lies I’ve come across in my reading about the climate. My question is this: If the climate threat is as real as They say, why on Earth do They need to make up lies about it? Or could it be that They now know perfectly well that the whole climate scare is nonsense, but They are making far too much money out of it to let go. So they make up data, fudge graphs, distort results, and generally invent threats where none exist and then exaggerate them beyond all reason. If there is one thing I hope to convey to you by this presentation, it is a sense of due proportion in looking at this question.




**We're all
gonna lie!**

**“Unless we
announce
disasters,
no one will
listen.”**



**Sir John
Houghton**


This is Sir John Houghton, the first chairman of the science working group of the UN's climate panel, the Intergovernmental Panel on Climate Change. In a book that he wrote on the subject, he said, “Unless we announce disasters, no one will listen.” In short, “We’re going to just make it up, so as to scare you until you listen.”



**We're all
gonna lie!**

**“We have to
offer up
scary scenarios”**

Stephen Schneider



Stephen Schneider, one of the two dozen scientists driving the “global warming” scare, has said, “We have to offer up scary scenarios.” With respect, what scientists ought to be offering up is the truth, and nothing but.



We're all
gonna lie!

“Global warming’
can mean **colder**. It
can mean **drier**. It
can mean **wetter**.
That’s what we’re
dealing with.”

Stephen Guilbeault, Greenpeace, 2005

Res ipsa loquitur.



In a class of habitual mendacity all of his own is Al Gore. When his guard was down during a live interview, he said, "Ah believe it is appropriate to have an over-representation of factual presentations on how dangerous it eeeuurzzz." In other words, we're going to exaggerate, because we're so convinced we're right. But if the Gorons were really convinced – if, indeed, they were really right – they would have no need to exaggerate. So let us look at just a few of Al Gore's lies. There are actually some three dozen of them in his mawkish sci-fi comedy-horror movie. But we'll only have time to look at just a small handful of them.



This publicity poster for Al Gore's climate movie was kindly sent to me by a reader of my papers on the climate at www.scienceandpublicpolicy.org. Your challenge: to look at it for 5 seconds and expose the lie in the poster.

	 Nahn Lahs:	
Gore Sea level up 20 ft Pacific atolls evacuated Ocean conveyor to stop CO₂ drove temperature Kilimanjaro melting Lake Chad drying up Katrina anthropogenic Polar bears drowning Coral reefs bleaching	Judge <i>Only after millennia</i> <i>No evidence for it</i> <i>It will slow, not stop</i> <i>The other way around</i> <i>By natural causes</i> <i>Not 'global warming'</i> <i>No proven link</i> <i>Storm killed 4 bears</i> <i>Many causes</i>	

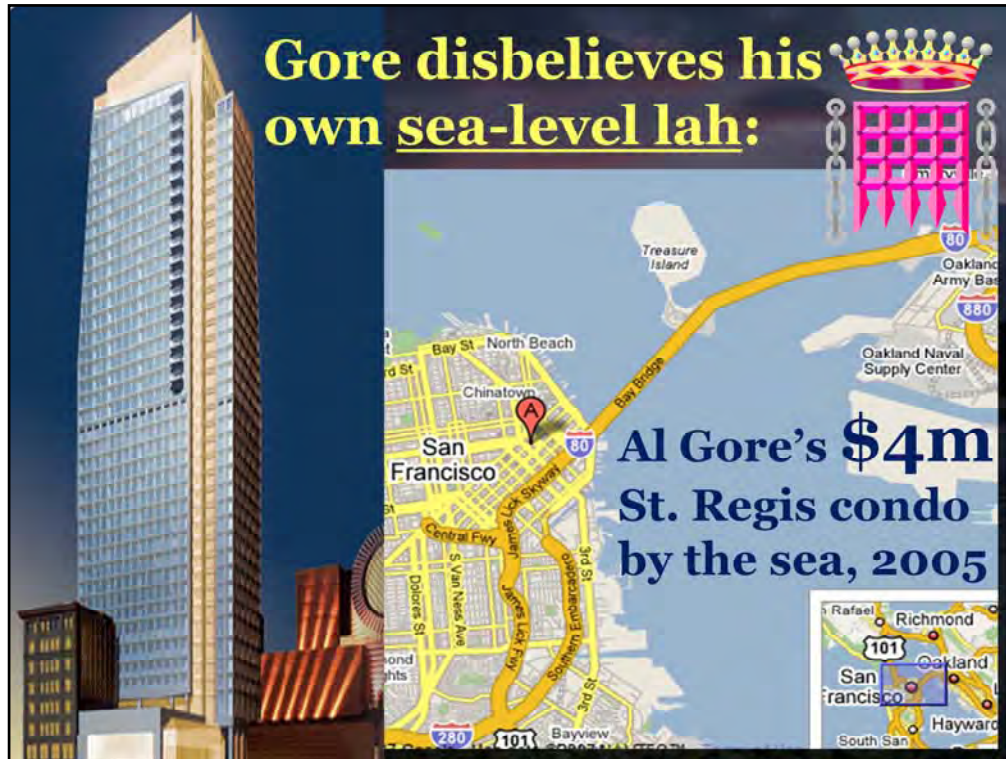
In October 2007 a lorry-driver with two school-age children took HM Department of Education to court for proposing to circulate Al Gore's climate movie to every school in England. He won his case, and – ironically, just two days before Al Gore won the Nobel Peace Prize for his serially mendacious slide-show – the High Court in London ordered the Secretary of State for Education to issue 77 pages of corrective guidance to every school to which the movie was sent. Of the three dozen scientific errors in the movie, the judge selected nine as being so serious as to require judicial attention. We shall look at just a couple of them in detail.



The UN's climate panel records that, in the decade 1993-2003, the contribution of the Greenland and Antarctic ice-sheets to sea-level rise was 0.42 mm/year, and that total sea-level rise was 3.1 mm/year (the apparent increase from 8 inches/century to 1 foot/century was in fact chiefly attributable to the transition from tide-gage to satellite measurement, though the IPCC's table does not say so). The IPCC's central projection of sea-level rise on the A2 emissions scenario that comes closest to observed reality shows sea-level rising at 430 mm in the 21st century. Thus, sea-level rise attributable to the two great ice-sheets in the 21st century is simply $0.42 \times 430 / 3.1 = 6$ cm. Al Gore, however, says that the melting of the ice-sheets will imminently contribute 20 ft (610 cm) to sea-level rise – at least a 100-fold exaggeration of the current “official” position.



The biggest climate scare of them all is the sea-level scare. Gore had suggested that sea level – which had risen by just 8 inches in the whole of the 20th century – was imminently going to rise by 20 feet, wiping out coastal communities all round the world. The judge was blunt: “The Armageddon scenario that he depicts is not based on any scientific view.” The UN’s climate panel says its current best estimate is that sea level will rise by 17 inches in the 20th century, with a maximum of 23 inches. However, since satellites first began monitoring sea level in 1993, it has ben rising by just 1 foot per year. Professor Niklas Moerner, the world’s ranking expert on sea level, who has written 520 peer-reviewed papers on the subject in a 35-year career, estimates that sea level will rise not more than 8 inches by 2100.



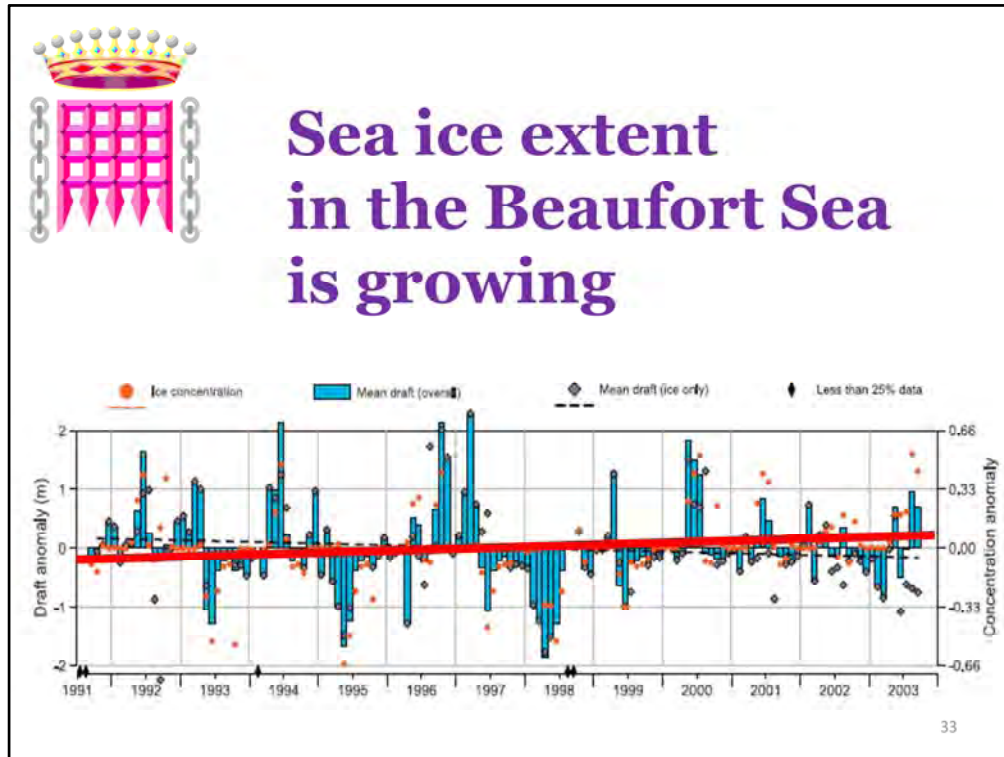
Could Al Gore's errors have been merely based on sheer ignorance? After all, he has no scientific qualification and is prone to be rather impressionable. However, in 2005, while he was filming the movie in which he suggested that sea level would imminently rise by 20 feet, he bought a \$4 million condo in the St. Regis Tower, San Francisco, just feet from the ocean at Fisherman's Wharf.



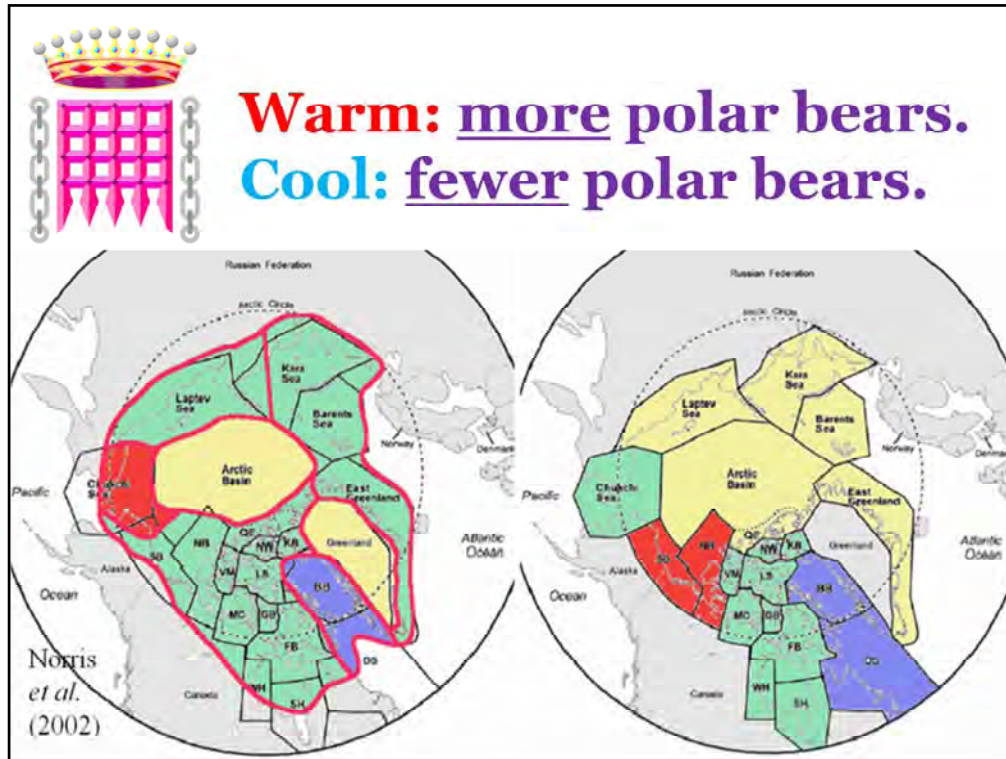
Gore's movie brilliantly captures every poster-child for the "global warming" scare. Polar bears are among the most emotive. In his movie, Gore cites "a scientific study" that "shows for the first time that they're finding polar bears that have ... drowned, swimming long distances – up to 60 miles – to find the ice."



The paper to which Gore was referring was by Monnett & Gleason (2006). The researchers had seen precisely four dead polar bears, killed not by “global warming” but by high seas and strong winds in a violent storm in the Beaufort Sea. As they say in the United States, “Shit happens”.



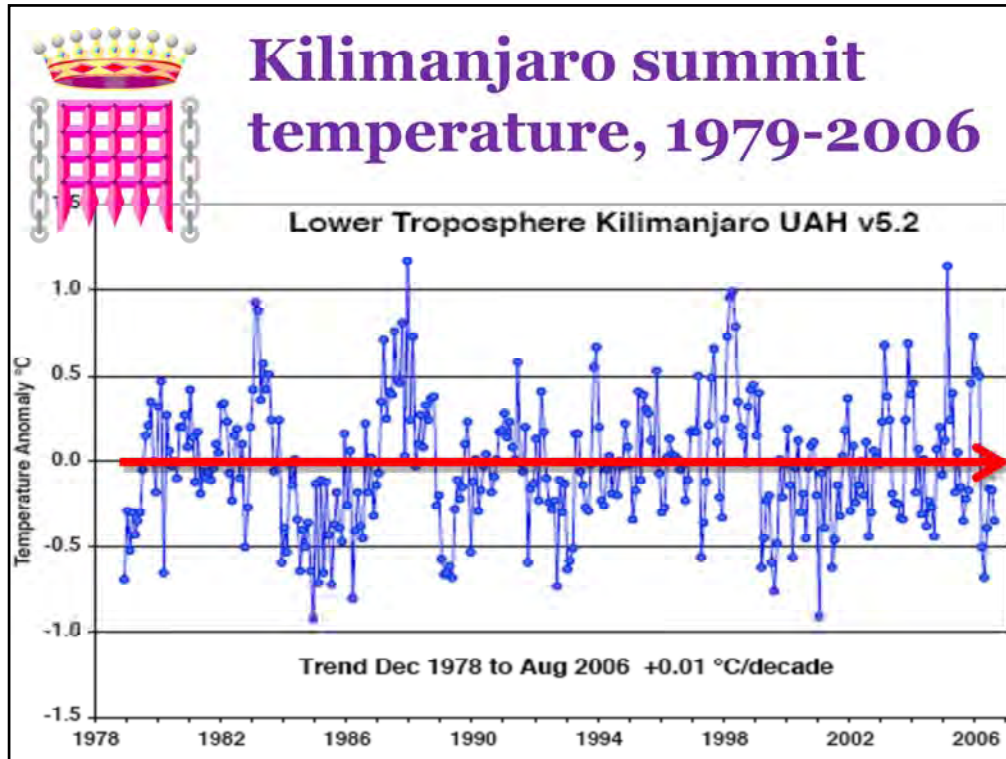
I made some additional enquiries on coming across Monnett and Gleason's paper. In particular, I wanted to find out whether there could have been any truth whatsoever in Gore's assertion that the polar bears had drowned because "global warming" had reduced the ice cover in the Beaufort Sea, where the four bears had died. The above graph shows that this is not the case. Sea-ice extent in the Beaufort Sea has, if anything, increased somewhat over the past 30 years.



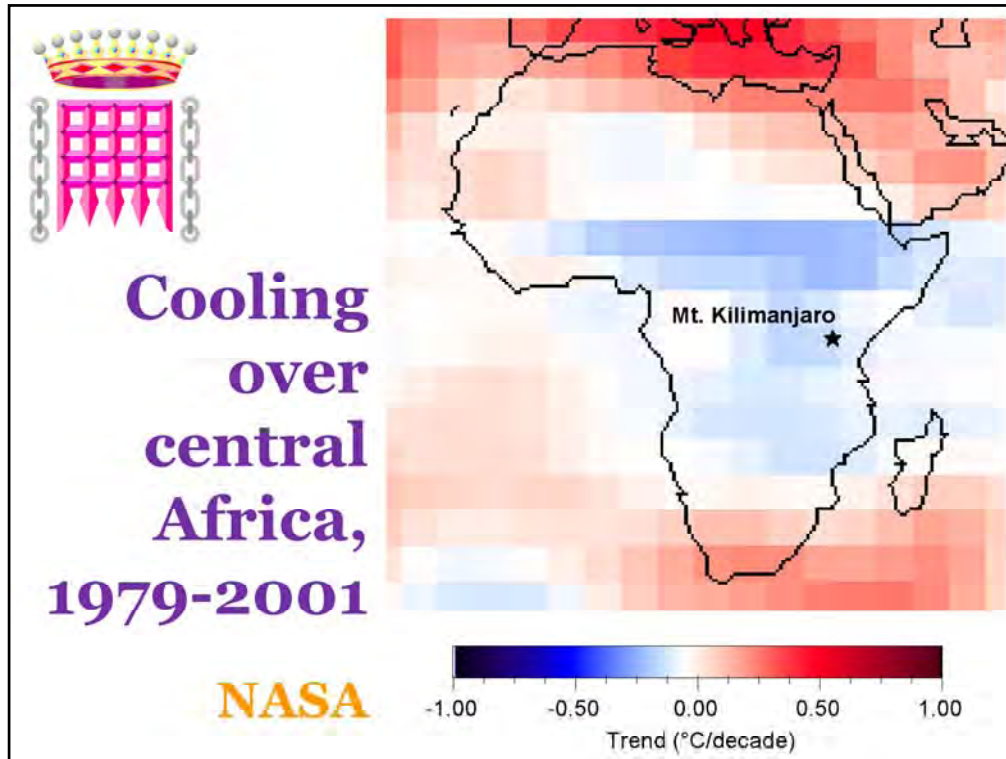
The World Wide Fund for Nature (formerly the World Wildlife Fund) is not noted for its skepticism about the climate. Yet this report that it issued in 2002 shows that in those regions where the Arctic has warmed the population of polar bears has increased; where temperatures have not changed, the polar-bear population has not changed; and where there has been cooling the bear population has fallen. Polar bears are warm-blooded animals, born not on the Arctic ice but in dens on the surrounding land. Their favorite delicacy is blaeberries, which do not grow on the Arctic ice-cap but only on the land. The bears evolved from the Brown Bear at least 200,000 years ago: therefore, they survived the last interglacial warm period, when temperatures were up to 6 C (11 F) warmer than the present, and there was almost certainly no ice-cap at all in the Arctic. The seals on whose blubber the bears feed would merely move to the coastal margins if the Arctic ice-cap were to disappear in summer, and the bears would feed on them there, as they have no doubt done before. Finally, there are five times as many polar bears as there were at the end of the Second World War – hardly the profile of a species imminently threatened with extinction. It has always been hunting that was the real risk to the bears: now that hunting is controlled and the bears protected, they are prospering.



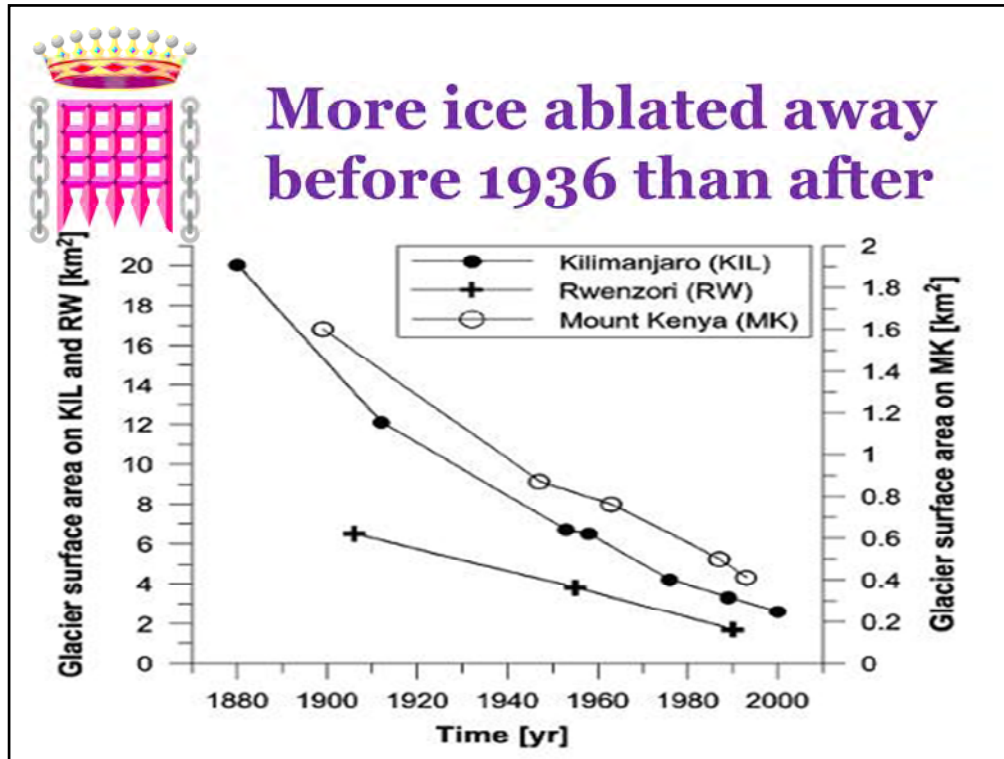
Mount Kilimanjaro, an ice-covered volcanic peak close to the Equator, is another of the poster-children for “global warming”. As with the polar bears, so with Kilimanjaro, Al Gore is scientifically incorrect to blame observed changes on “global warming”.



Satellites have been monitoring the summit of Mount Kilimanjaro for 30 years. During that time, there has been no statistically-significant trend in summit temperature, as the above graph demonstrates. The satellites show that the mean temperature at the summit is -7 C, and that the temperature has never risen above -1.6 C (around 28 F). No “global warming” there, then. Ice cannot melt if it is constantly below the freezing-point of water, as the snows of Kilimanjaro always are.



Cooling in the region of Mount Kilimanjaro, marked with a star on the map of Africa, is shown in this slide from NASA, which shows cooling of around 0.25 C (0.5 F) every ten years. It is the desiccation that results from this cooling that has caused much of the glacier to ablate away. "Global warming" has nothing to do with it, as a stream of peer-reviewed papers have long established.



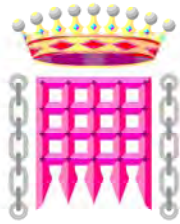
There has been no “global warming” at the summit of Kilimanjaro. Yet much of the Furtwangler glacier at the summit has disappeared. What has happened is that there has been widespread and prolonged cooling in the central African region. The cooling, recently reinforced by imprudent post-colonial deforestation in the region, has dried the atmosphere, so that the glacial ice at the summit does not melt but instead ablates, passing directly from the solid to the gaseous state without becoming liquid. It is the drying of the atmosphere, not its warming, that has caused much of the glacier to disappear. Furthermore, most of the glacier had already ablated away before Ernest Hemingway wrote his novel “The Snows of Kilimanjaro” in 1936, as the above graph shows.



In 2007 I challenged Al Gore to an internationally-televised public debate on “global warming”. However, he has not dared to accept the challenge. He has already seen what happened when his movie was subjected to scrutiny in the disciplined forum of a court of law, where – whether he liked it or not – both sides of the argument were fairly heard, with the UK Government spending millions to try to defend his movie. Representatives of the Meteorological Office described the movie as “broadly accurate” – as accurate as their lamentable long-range forecasts, no doubt – but the Judge was not taken in. He accepted that Gore’s movie does not fairly or accurately represent the current state of climate science. Yet most of the children worldwide who are exposed to his movie are never told that the Judge had found so many fundamental inaccuracies in the movie. Instead, they are told that the movie is accurate. Gore knows well that it is not accurate, which is why he is so reluctant to debate, and why he never allows unscripted questions from any of his audiences or from any journalist.



To me, one of the most startling phenomena in the climate debate is the systematic, brazen, and increasingly desperate mendacity of those peddling the “official” line. So in this part of the presentation we’re going to flick rapidly through some of the more egregious lies I’ve come across in my reading about the climate. My question is this: If the climate threat is as real as They say, why on Earth do They need to make up lies about it? Or could it be that They now know perfectly well that the whole climate scare is nonsense, but They are making far too much money out of it to let go. So they make up data, fudge graphs, distort results, and generally invent threats where none exist and then exaggerate them beyond all reason. If there is one thing I hope to convey to you by this presentation, it is a sense of due proportion in looking at this question. We begin by looking at just a few of the lies perpetrated by the UN’s climate panel.

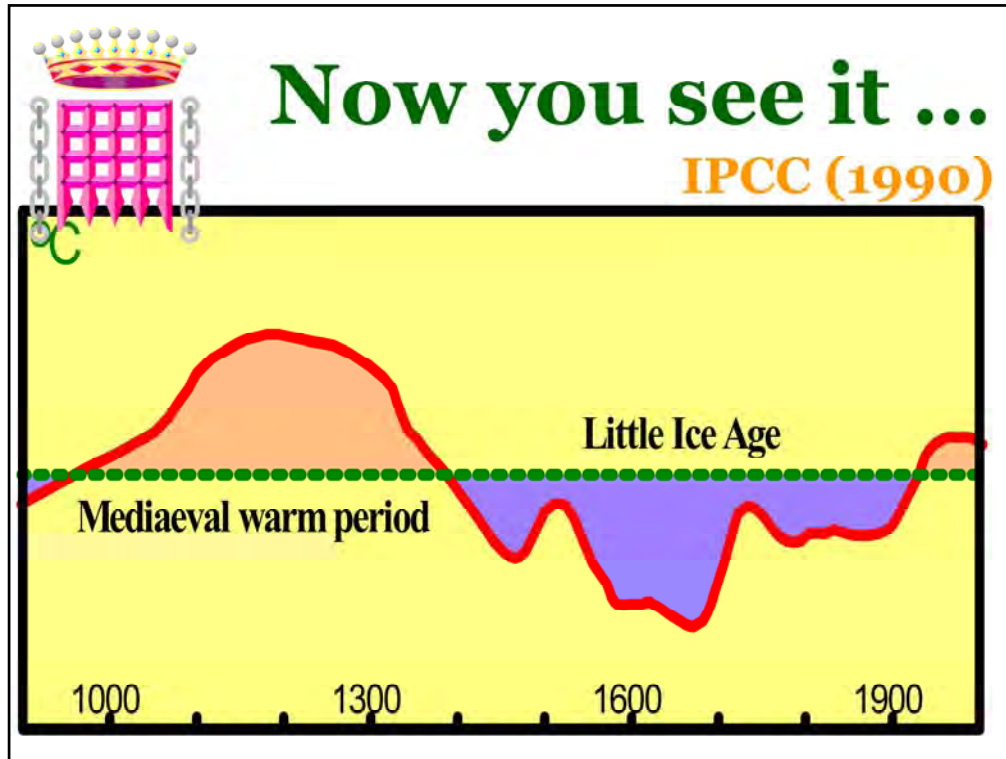


The ‘Middle Ages were cooler’ lie

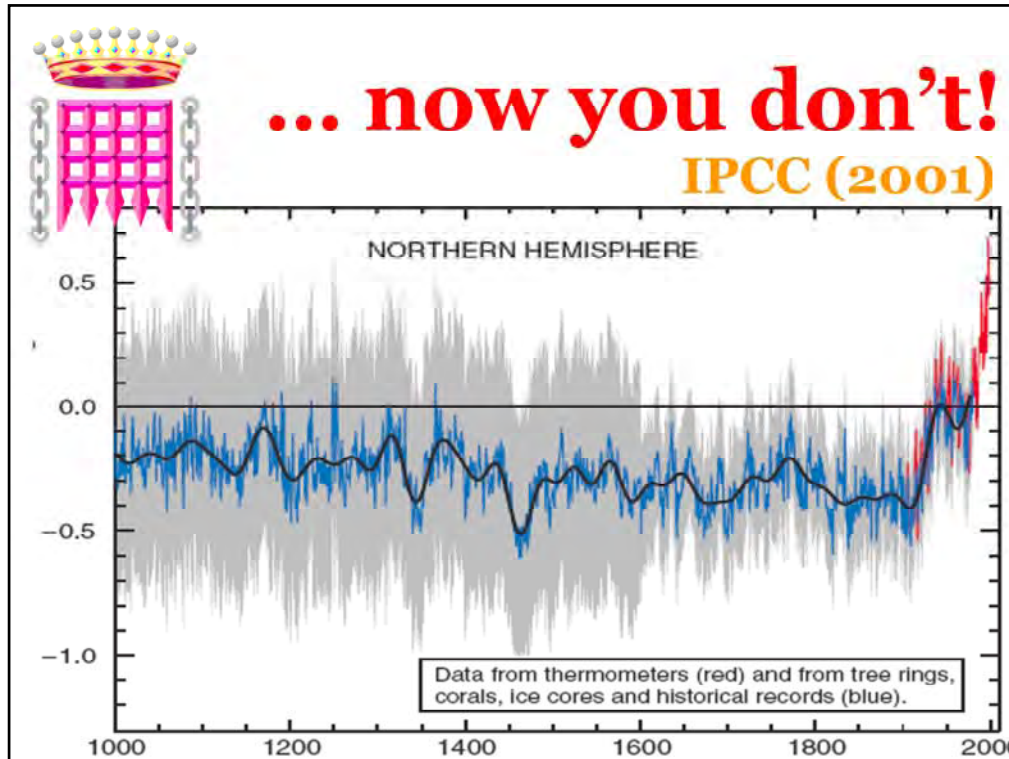
**“A major person working in the
area of climate change and
global warming sent me an
astonishing email that said,
‘We have to get rid of the
Medieval Warm Period.’”**

David Deming, 2005

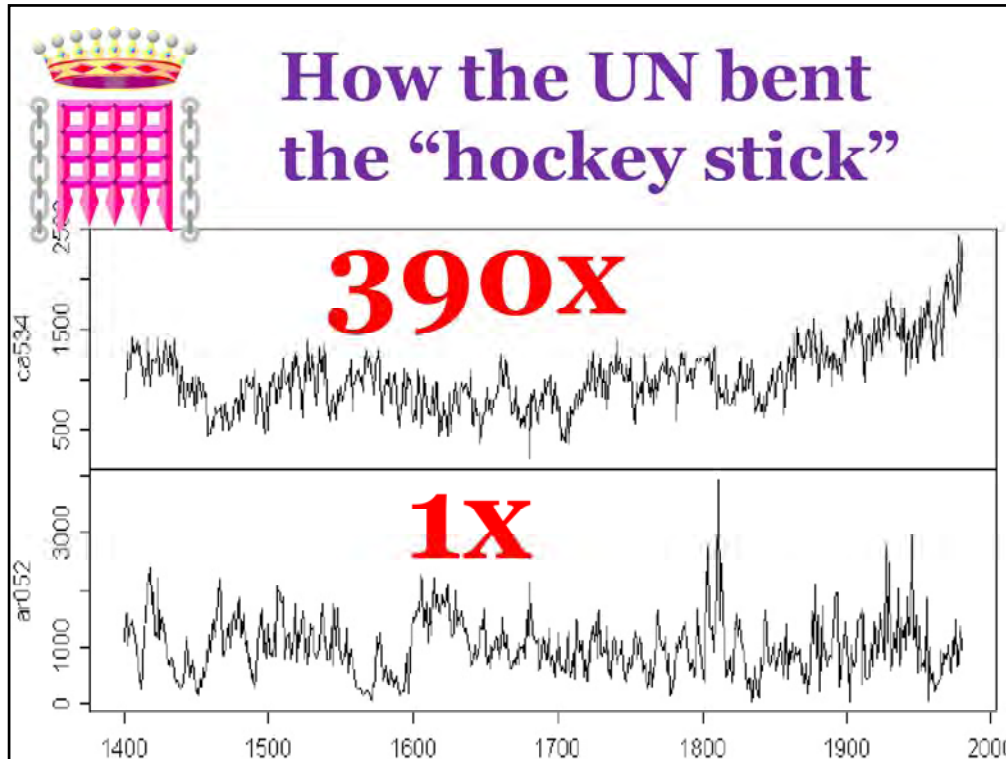
In 2005 David Deming, a scientist who had been researching the Earth’s surface temperature in geological time by means of boreholes, told the story of how, in 1995, he had had a research paper on borehole temperature reconstruction published in the journal *Science*. He had then been contacted by an unnamed scientist who had assumed that he was willing to bend the scientific data to further the “global warming” fraud. That scientist had said to him, “We have to get rid of the Medieval Warm Period”. Dr. Deming was astonished at the brazenness of the approach, but not altogether surprised: for the Middle Ages were inconvenient for those trying to say that today’s global surface temperatures are exceptional, because 1000 years ago it was appreciably warmer worldwide than today.



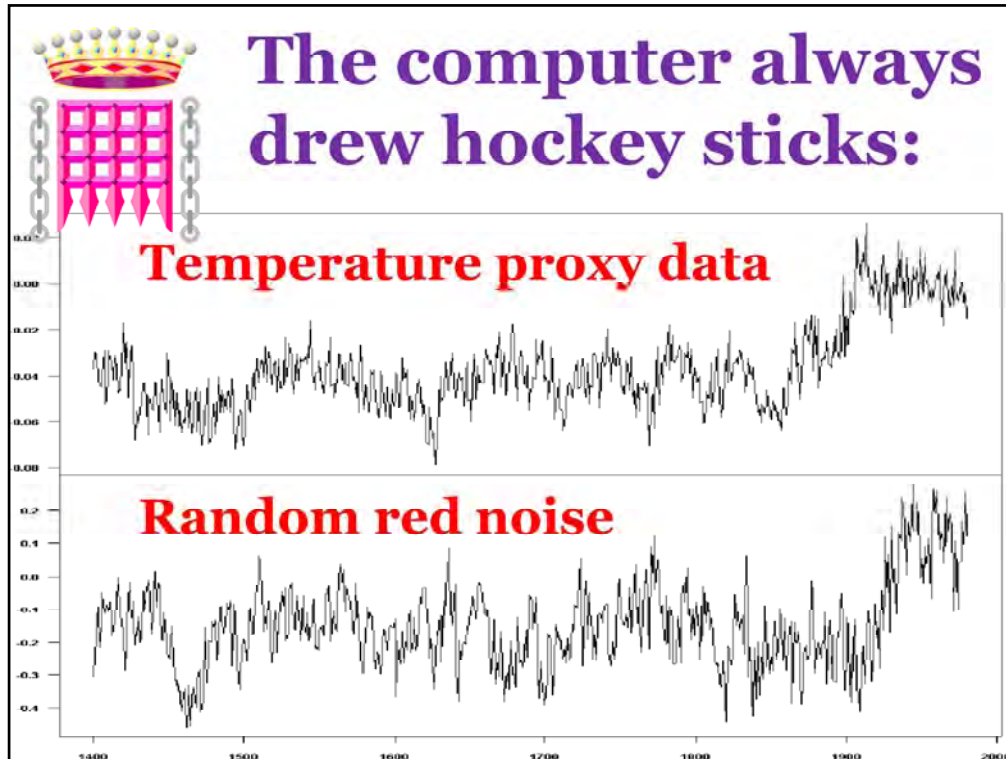
In the UN's first quinquennial climate assessment report, in 1990, the Medieval Warm Period had been clearly visible from the above graph, showing it to have been conspicuously warmer than today – probably by 1-2 Celsius (3-4 F).



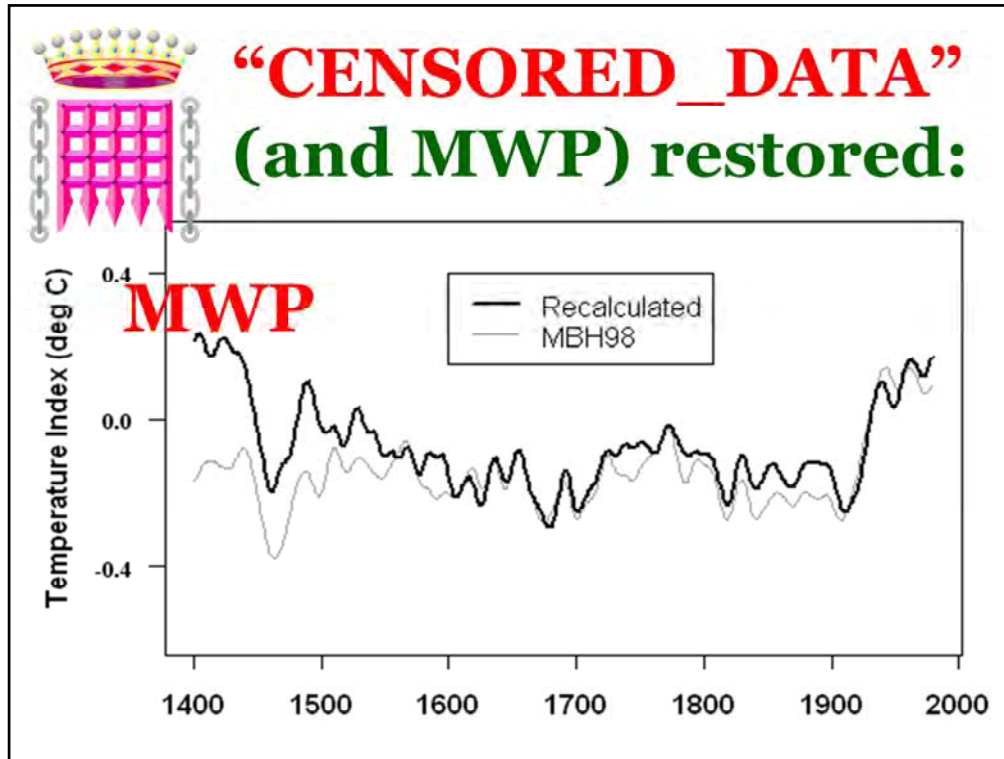
However, by the 2001 climate assessment, just 11 years later, the Medieval Warm Period had been ingeniously wiped out. This was the headline graph in the 2001 report. It was reproduced six times in the report, large, and in full color, the only graph to be so favored. However, the graph was bogus. The warm period during the Middle Ages had been artificially eradicated and, for good measure, the warming of the 20th century had been exaggerated by 50% by confining the analysis to the northern hemisphere (for the southern hemisphere has not warmed as fast as the northern hemisphere over the past 100 years). This “hockey-stick”-shaped graph appeared to show that something drastic was indeed happening to the climate. The next few slides show how the trick was done.



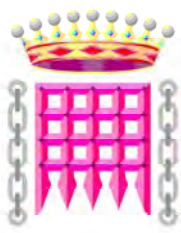
The compilers of the bogus "hockey-stick" graph gave 390 times as much weight to data sources that produced a "hockey-stick" shape, showing apparently exceptional 20th-century warming, than they did to other sources that showed no such thing. This and other statistical prestidigitations were exposed by two Canadian researchers, Professor Ross McKittrick and Dr. Steve McIntyre, in a paper published in *Geophysical Research Letters* in 2005. *Nature*, which had originally published the bogus graph, had refused to accept any corrective material from the two Canadians, but was later shamed into publishing a corrigendum by the paper's original authors. Nevertheless, the UN's climate panel continues to rely on the "hockey stick" to this day.



The two Canadian researchers who exposed the “hockey-stick” graph as bogus also demonstrated, using the authors’ original computer algorithm, that the algorithm always produced hockey-stick-shaped graphs showing exaggerated and exceptional 20th-century warming, even if proper temperature proxy data (from tree-rings, stalagmites, lake sediments, etc.), were replaced with red noise, a type of entirely random input data. The computer program had been tuned so that it very nearly always produced graphs of the shape the authors intended to create.



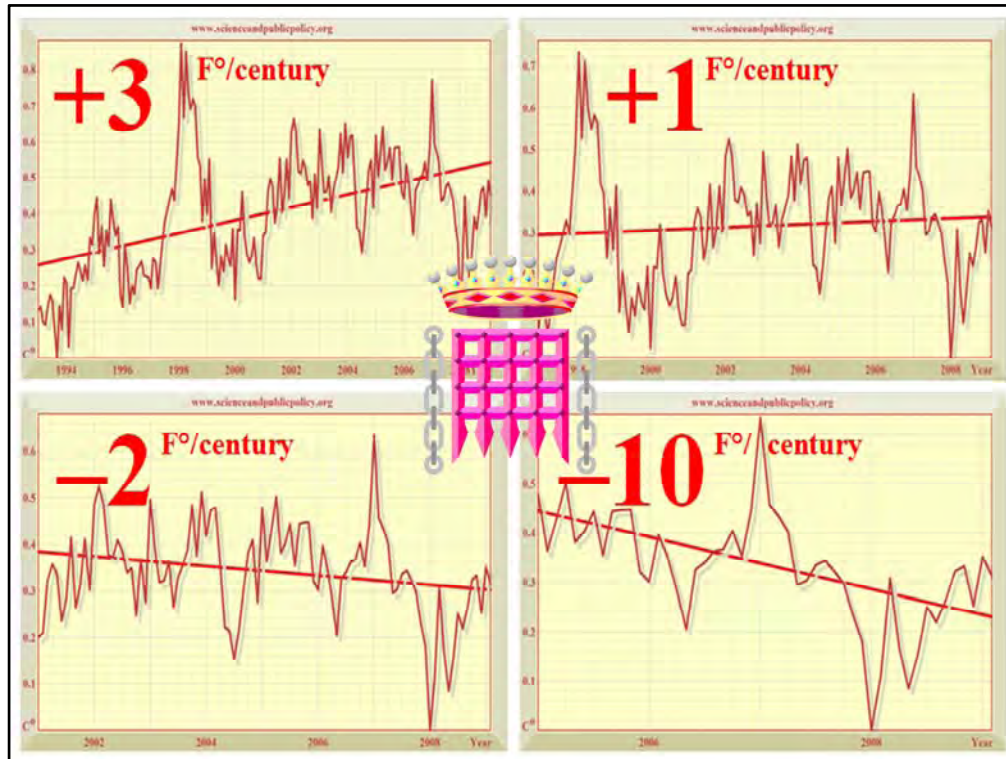
Worse still, the Canadian researchers who exposed the “hockey-stick” fabrication showed that the authors of the UN’s graph had suppressed the temperature proxy data for the medieval warm period, while saying in the paper that they had relied upon it, and had instead replaced the real data with estimates that they had made up, without having said that that was what they had done. When the true data were restored, even with the tuned algorithm used by the authors of the “hockey-stick” graph, the Canadian researchers showed that the medieval warm period duly reappeared.



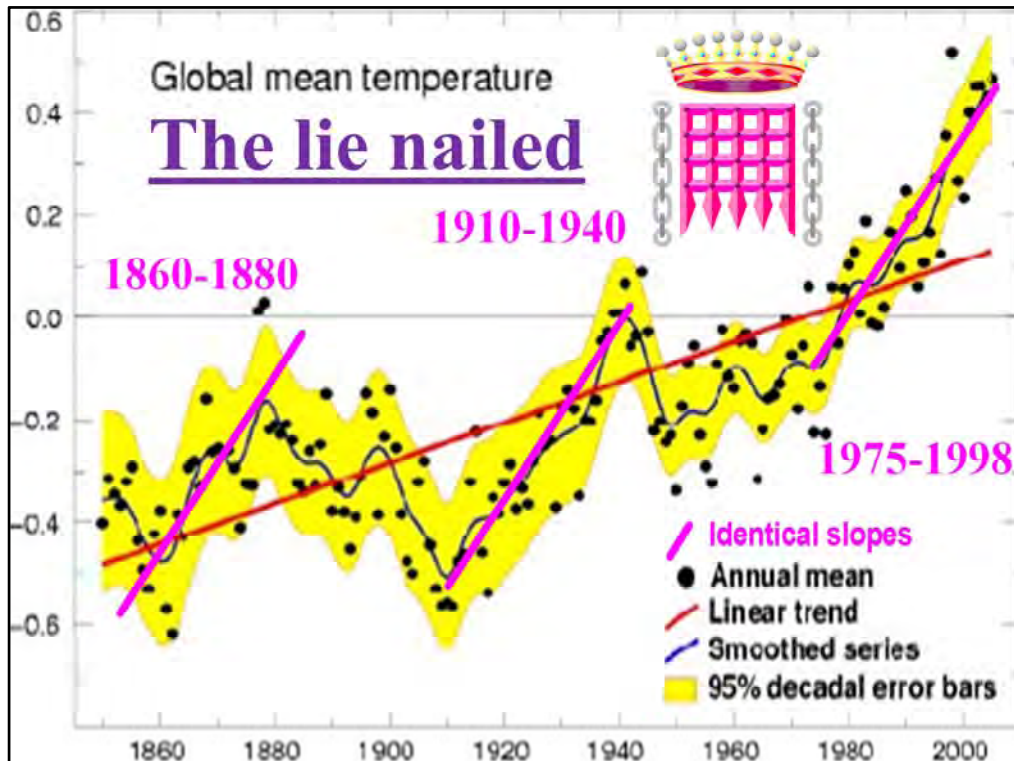
The “IPCC is peer reviewed” lie

Meters / century	1961-2003	1993-2003
<u>Thermosteric expansion</u>	0.042	0.160
<u>Glaciers & ice caps</u>	0.050	0.077
<u>Greenland ice-sheet: IPCC</u>	<i>0.050</i>	<i>0.210</i>
<u>Antarctic ice-sheets: IPCC</u>	<i>0.140</i>	<i>0.210</i>
IPCC's TOTALS	0.110	0.280

The UN says that its major climate assessments (1990, 1996, 2001, and 2007) are “peer-reviewed” – i.e., scrutinized by independent reviewers to remove all scientific errors. Yet the “peer review” process used by the UN is profoundly flawed. For a start, the authors of the UN’s reports are permitted simply to disregard the reviewers’ comments, even when a majority are unfavorable. Secondly, errors that tend greatly to overstate the magnitude of the imagined effects of “global warming” are often altogether overlooked by the “reviewers”, who are not in most instances independent at all, but are carefully chosen by the IPCC to reflect its own bureaucrats’ point of view. The above table of figures was the first to appear in the IPCC’s 2007 report. The four figures italicized in red – the contributions of the Greenland and Antarctic ice-sheets to observed sea-level rise from 1961-2003 and from 1993-2003 – were all multiplied by ten by the UN’s bureaucrats. However, I discovered their error when I added up each of the two columns and found that the totals given by the IPCC did not correspond with the sums of the four values in each column. The bureaucrats had tampered with the decimal points for the Greenland and Antarctic ice sheets, four times, but had not remembered to retotal the two columns. I pointed out this error to the UN on the day the 2007 report was published. I received not a single acknowledgement from any of the four senior UN officials to whom I wrote, but the table was quietly corrected a couple of days later, moved, retitled, and quietly posted on the IPCC’s website, with no public announcement that anything had been changed.



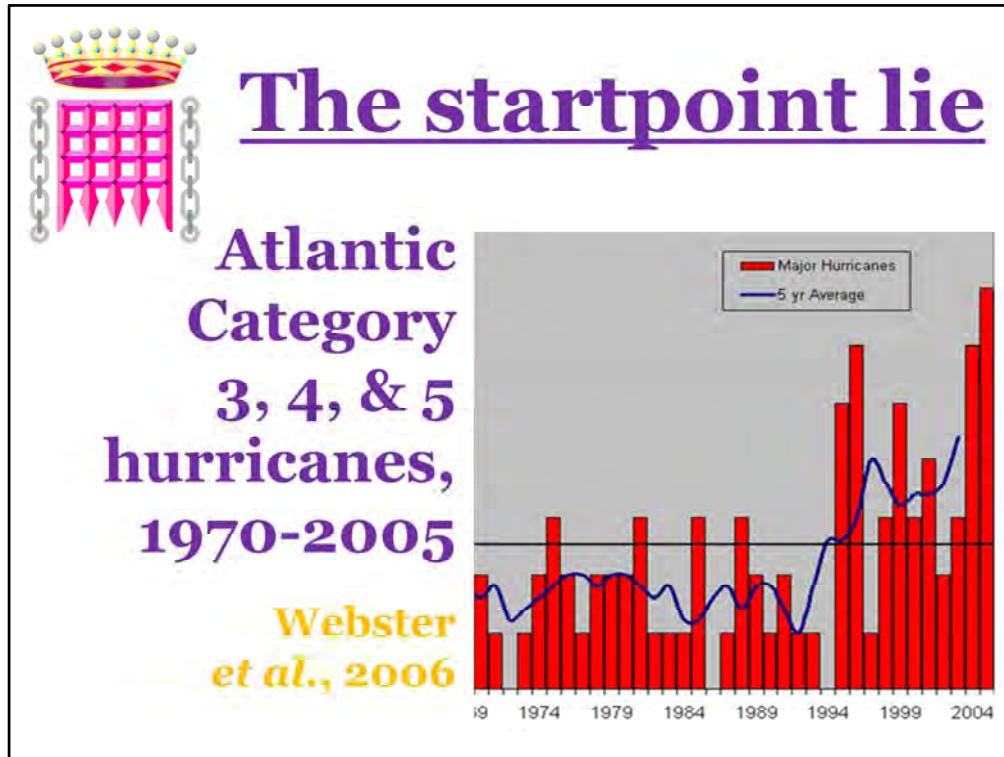
In the four graphs above, I have taken the same global-temperature data as the UN's own graph, but – for the sake of bringing the data up to date – I have commenced the analysis in 1993. My chosen startpoint for the top-left graph is 1993; top right 1997; bottom left 2001; and bottom right 2005. From a rapid warming we have transited to a very rapid cooling – so rapid, in fact, that if it were prolonged for just 30 years the world would be in an Ice Age. By using the same statistical method and the same data as the UN, but choosing different startpoints, I have produced a result precisely the opposite of that which the UN produced. Which result is correct? The answer is that neither is correct. My graphs above are just as much a statistical abuse as the UN's graph. I present them merely to illustrate how absurd the UN's methodology is.



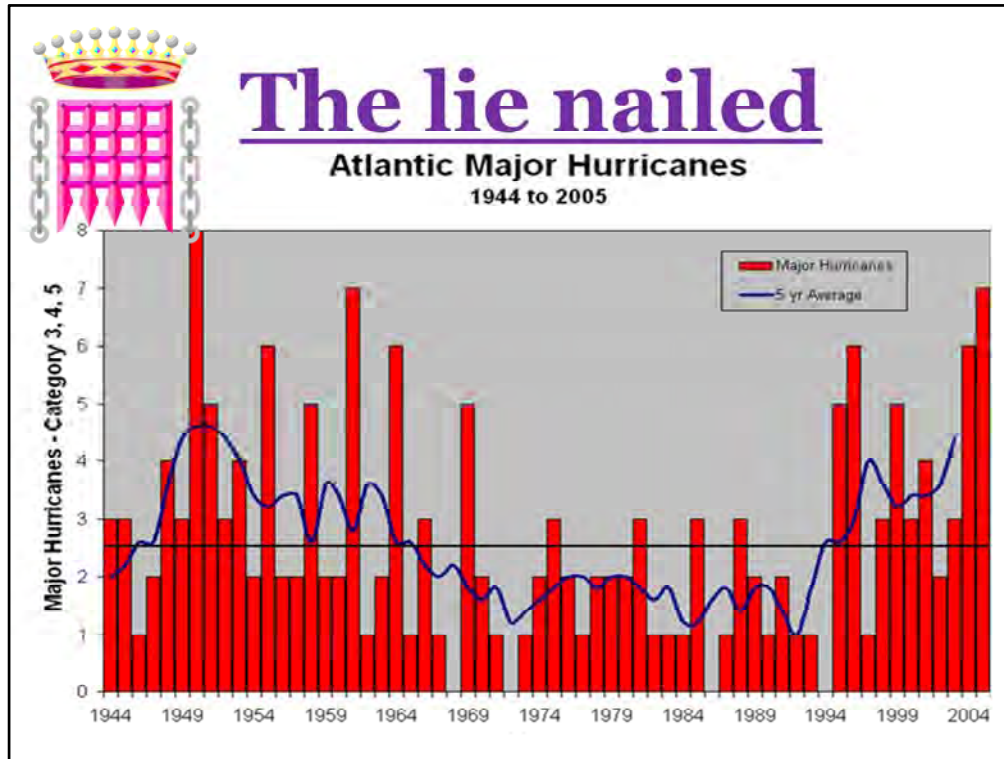
Here is the unvarnished truth. The warming rate between 1975 and 1998, when “global warming” ceased, is exactly parallel to – and therefore identical with – the warming rates from 1860-1880 and from 1910-1940. These two earlier periods occurred before humankind’s enterprises and industries and populations were extensive enough to have – even in theory – any appreciable effect on the climate. In short, as we saw earlier, there is no – repeat no – evidence of any anthropogenic influence whatsoever on global temperatures. That is the truth, and the UN was wrong not to say so. Arguably, its graph attempting to suggest otherwise is an instance of fraud and corruption. This is by no means the only instance of data tampering and generation of false results by the UN, as we shall see.



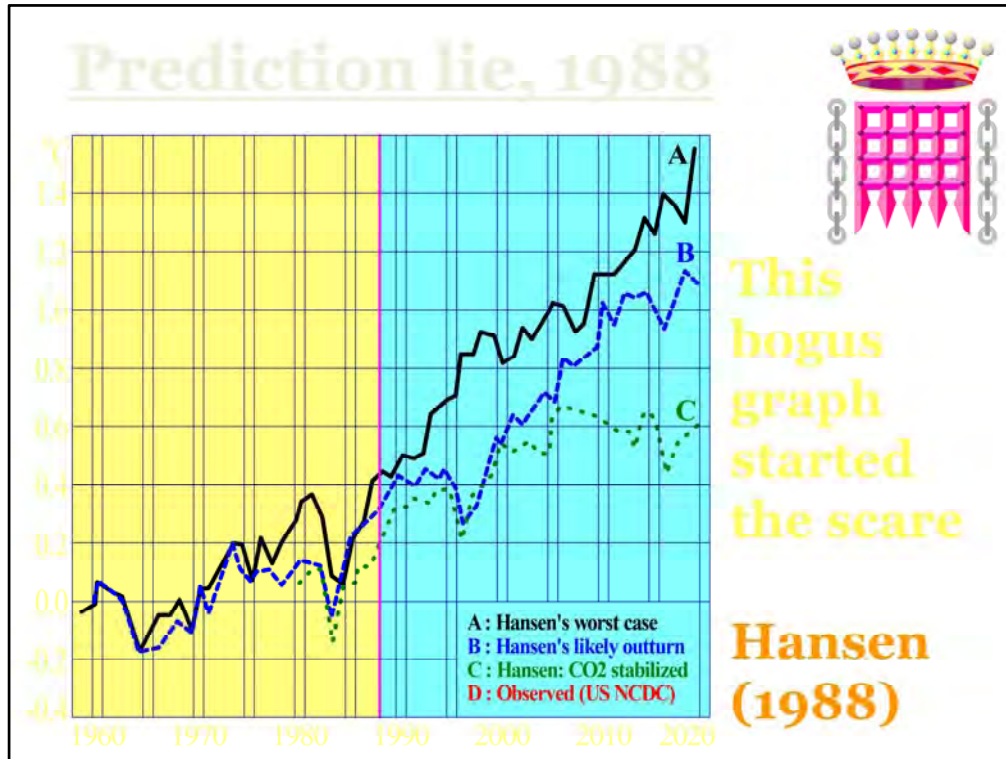
Now for some of the numerous lies perpetrated by the wider scientific community. Be prepared to be startled by the sheer brazenness of these instances of mendacity. Note also that not one of these lies tends to state that the supposed climate threat is less serious than the science suggests: in every single instance, the tendency is to create a problem where none exists and then to exaggerate it. It is the relentless unidirectionality of the lies that demonstrates that they are not merely accidental – they are deliberate.



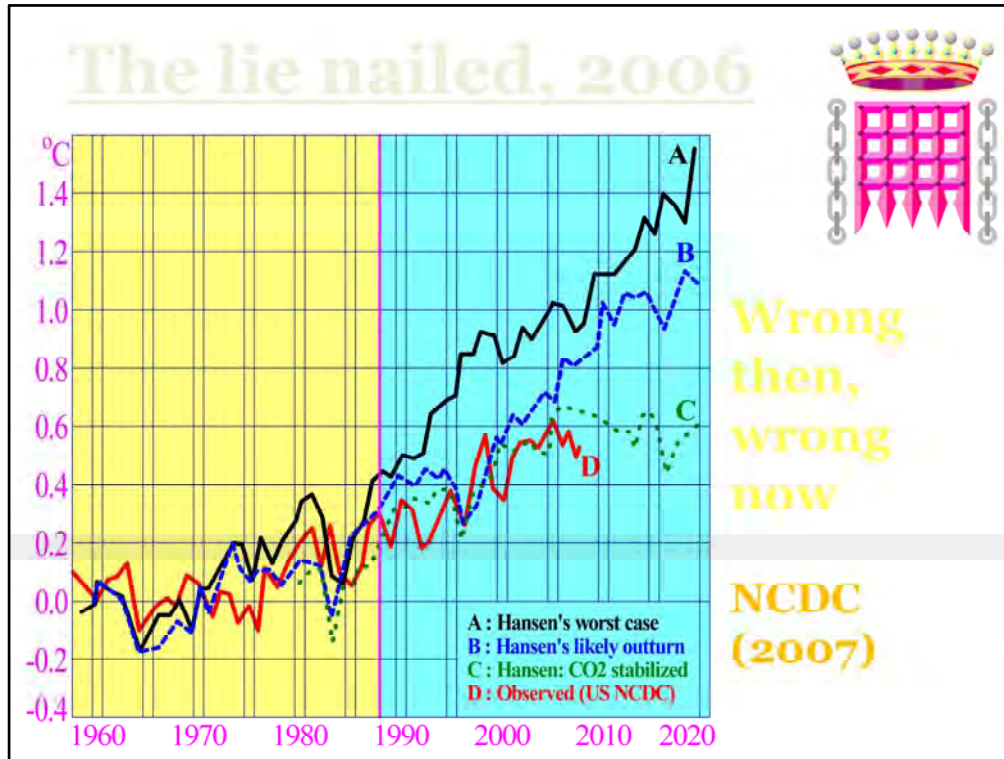
This slide seems harmless enough: it is a record of major hurricanes in the Atlantic from 1970 to the present. This graph appeared in a scientific paper published in 2006. The conclusion that the authors of the paper invited their readers to draw was that “global warming” had been causing an increase in the frequency of intense Atlantic hurricanes. However, as we shall see, this graph is in fact just another instance of the statistical abuse known as the endpoint fallacy.



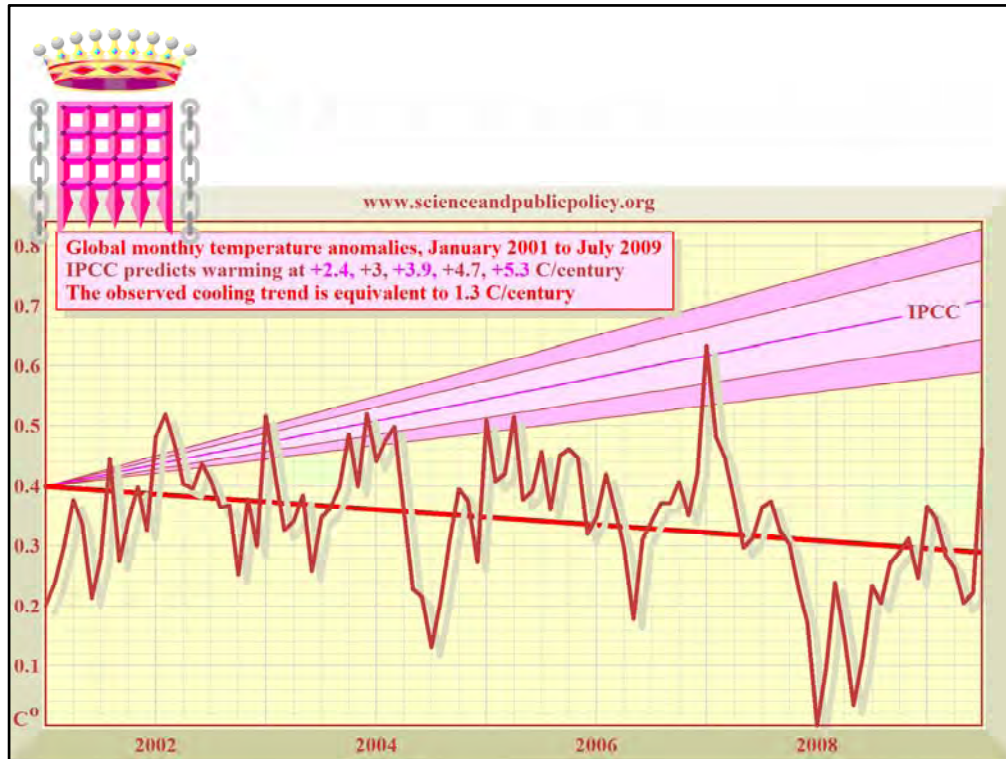
The truth about Atlantic hurricanes is simple to demonstrate, merely by extending the data further back in time, as we have done here. It is clear that in the 1950s and 1960s there were more hurricanes than in the 1970s and 1980s. But the author of the paper we have just mentioned carefully excluded all the data before 1970, so that it looked as though “global warming” was having a major effect on hurricanes. This is an instance of the “endpoint fallacy”, an abuse of statistics in which the careful selection of startpoints or endpoints for a dataset allows the manipulative scientist to demonstrate any trend he desires. In fact, as we shall see later, by 2009 the combined frequency, intensity, and duration of all hurricanes, typhoons, and other tropical cyclones worldwide was at its lowest value in 30 years. There has been no trend in the number of landfalling Atlantic hurricanes for 150 years. The paper should have been honest enough to say so.



Some commentators date the climate scare from a presentation by James Hansen, a NASA scientist, before Congress at Al Gore's invitation on a carefully-chosen very hot day in the very hot summer of 2008. Hansen's prediction purported to show that in the 30 years following his presentation global temperatures might rise by almost 1.5 C (2.5 F). The graph was calculated to cause – and did cause – considerable alarm among the Congressmen who saw it.

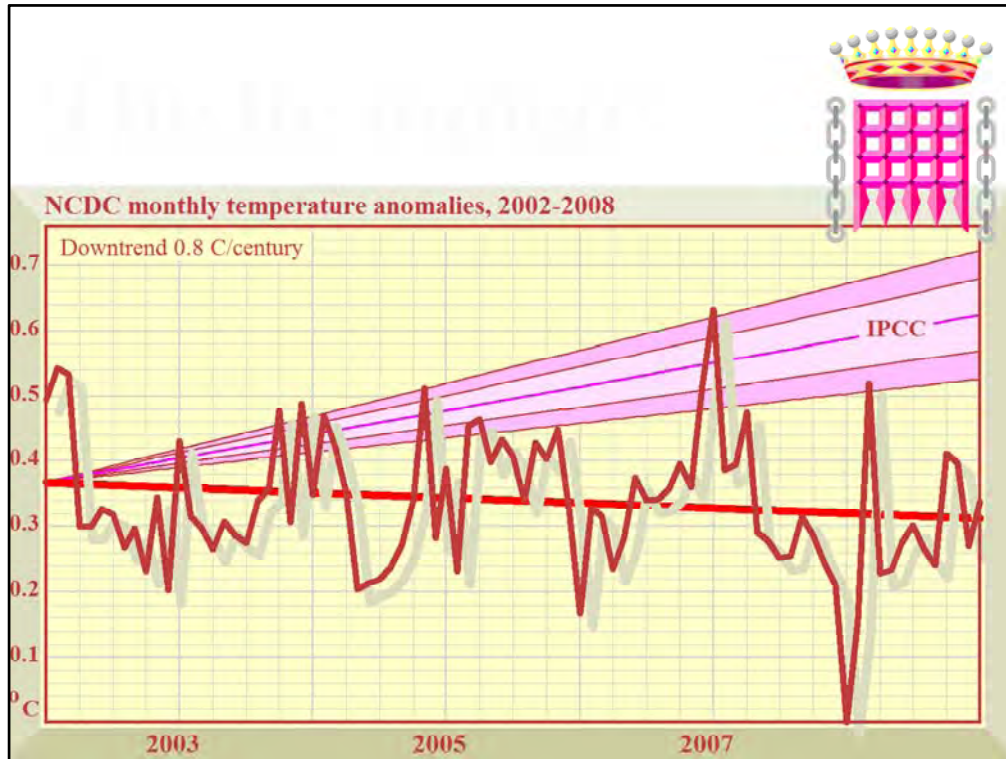


And here is what actually happened. The red line is the actual temperature record – and, of all the major global-temperature datasets, it is the one that comes closest to the extreme warming that Hansen had predicted. The real-world trend in mean global surface temperature, shown in red, has in fact fallen well below Hansen’s “CO2 stabilization” curve, shown in green, which Hansen said was based on the assumption that by 2000 CO2 emissions would have been stabilized worldwide. The outturn is, therefore, evidence that the increase in CO2 concentration that has in fact continued to occur ever since Hansen’s extreme and baseless 1988 projection has had no more effect on temperature than if, as Hansen had suggested, the nations of the West had shut down enough of their economies to stabilize CO2 emissions at no more than replacement value. Not one of the fawning journalists whom Hansen allowed to interview him on the 20th anniversary of his graph in 2008 asked him to explain how it was that his predictions had turned out to be such a prodigious exaggeration. One answer might be that the computer model he used in the creation of this graph contains “flux adjustments” – i.e. fudge factors – some 50 times larger than the very small changes the model is attempting to predict. Later in this presentation we shall reveal some still more fundamental defects and limitations in the computer models that attempt to predict the climate.

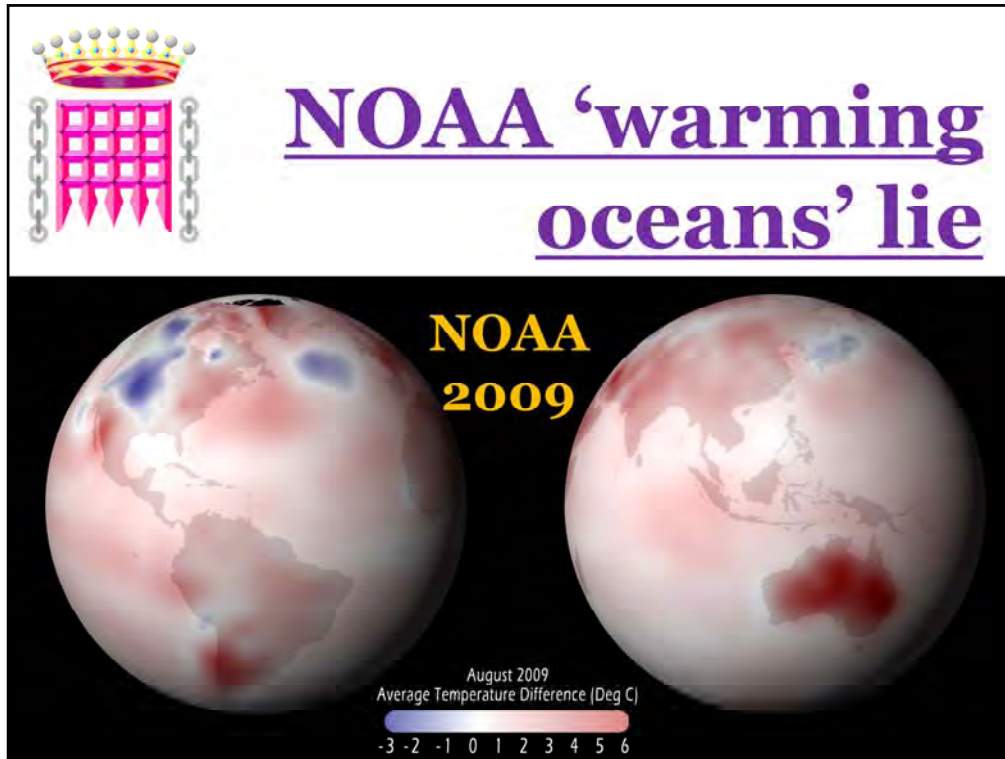


There has now been a nine-year period of rapid and statistically-significant global cooling, as we saw earlier. In early 2009, I gave testimony before the Energy and Commerce Committee of the US House of Representatives. During the hearing, I showed a version of the above graph, which demonstrates quite clearly that, contrary to the IPCC's predictions of "global warming", there has been global cooling ever since the millennium.

Representative Joe Barton (R-TX), the ranking Minority member of the Committee, asked the Director of the US National Climatic Data Center whether it was true that there had been eight years' global cooling and, if so, why none of the scientists working for various agencies of the US Government had not revealed this fact to the Committee. The Director replied that he could not support the methodology I had used, because I had taken the average of two terrestrial and two satellite datasets, and he was not able to say whether there had been global cooling or not. The next slide will reveal the truth.



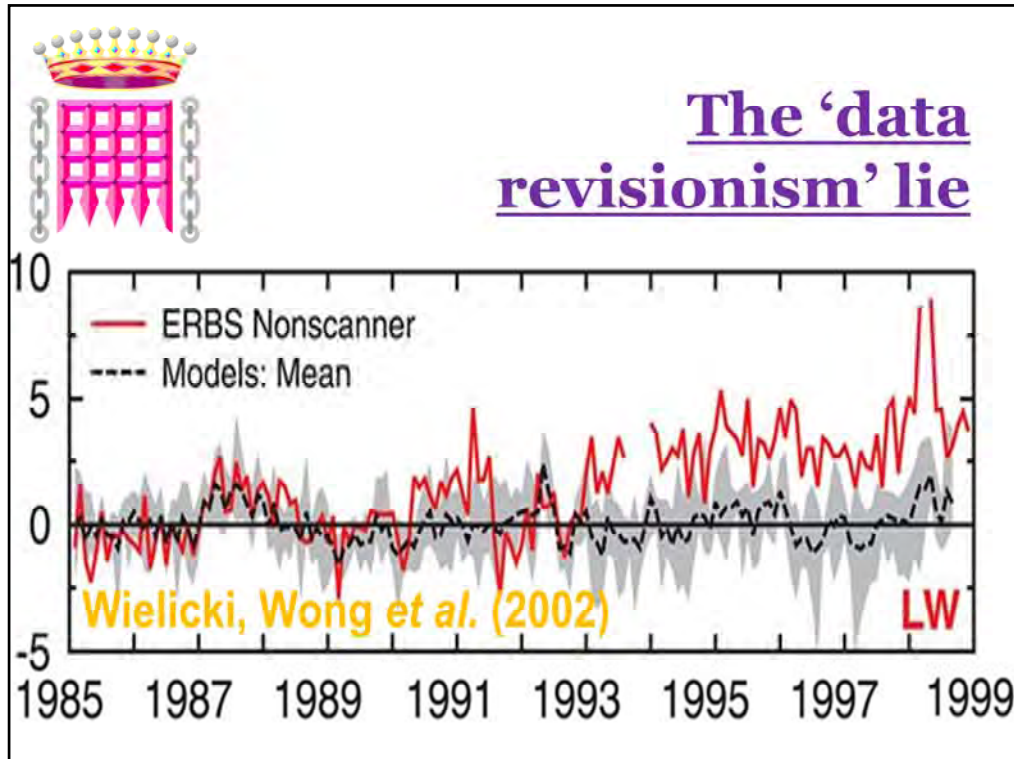
The National Climatic Data Center's own dataset reveals that, since 2002, there has been rapid global cooling. The NCDC's Director, therefore, was remiss in not admitting at once to the Committee that the cooling had taken place. I subsequently wrote to the Committee to show it this graph.



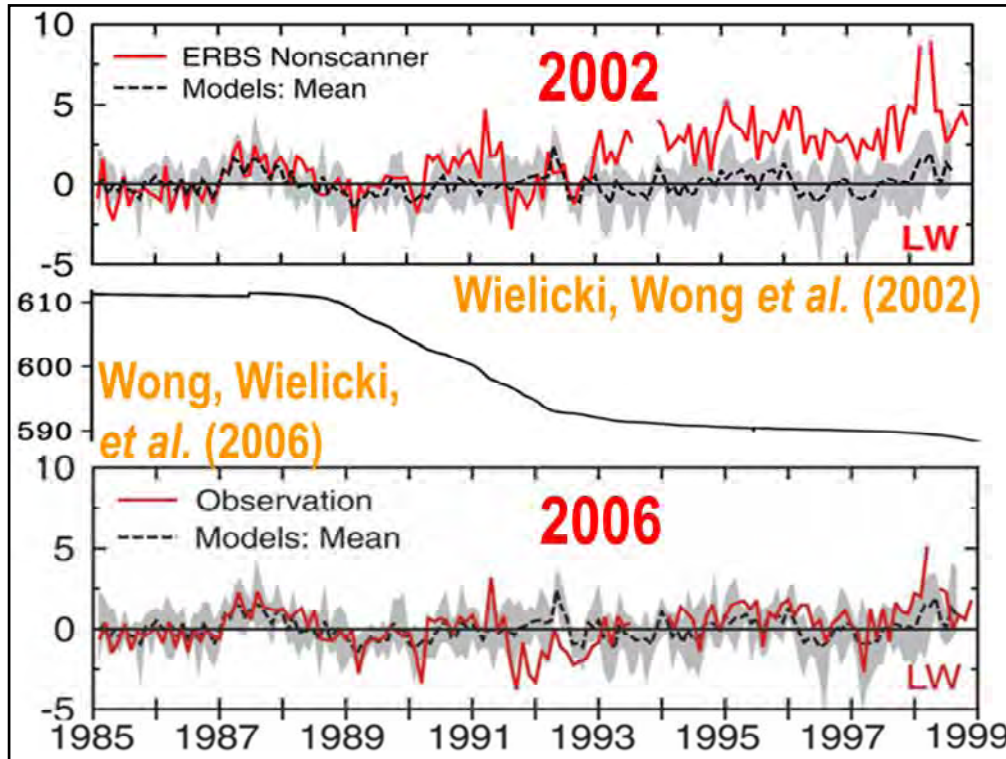
The National Oceanographic and Atmospheric Administration, which incorporates the National Climatic Data Center, has also been tampering with data. Here is its August 2009 map showing “global warming” at the Earth’s surface. However, this map was based on removing both the satellite datasets and the ARGO bathythermograph datasets for sea surface temperature – in short, ignoring the two most reliable methods of assessing sea surface temperature.



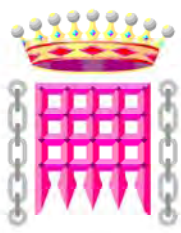
This is the trend in sea surface temperature in the five years 2004-2008. The results of the extremely sensitive ARGO measurements are entirely clear: the oceans have been cooling slightly, and have certainly not been warming as the UN's theory requires.



In 2002, Wielicki, Wong *et al.* published a paper inadvertently showing that up to seven times as much long-wave radiation was escaping to outer space than the UN's computer models had imagined. This result, though accidental, was fatal to the "high-climate-sensitivity" theory, because it implied that very little of the radiation escaping from the Earth's surface was being trapped within the climatosphere.




Accordingly, the data were revised four years later. The pretext for the revision was that the original paper had not taken into account the orbital degradation of the Earth Radiation Budget Experiment satellite. The degradation – a decay of the orbit over time – is shown in the middle panel of this slide. Orbital decay is a fact of life for everyone who uses or studies satellite data. It is near-unthinkable that the authors of the 2002 paper had not taken it fully and carefully into account. However, in 2006 they produced a second paper, in which they said that adjustments to their original data to allow for the orbital decay in the satellite had brought the observed outgoing radiation (red curve) into what looks like uncannily close correspondence with the models' predictions (black dotted curve). Data revisionism to bring raw data into line with the more extreme predictions of the models favored by the UN has occurred repeatedly in recent years.



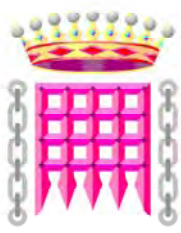
The Arrhenius lie

“Svante Arrhenius, the Swedish theoretical chemist, in 1897 ... calculated doubling the **5 C° CO₂ level ... would lead to a **temperature rise** round the globe. It was a brilliant piece of work.”**



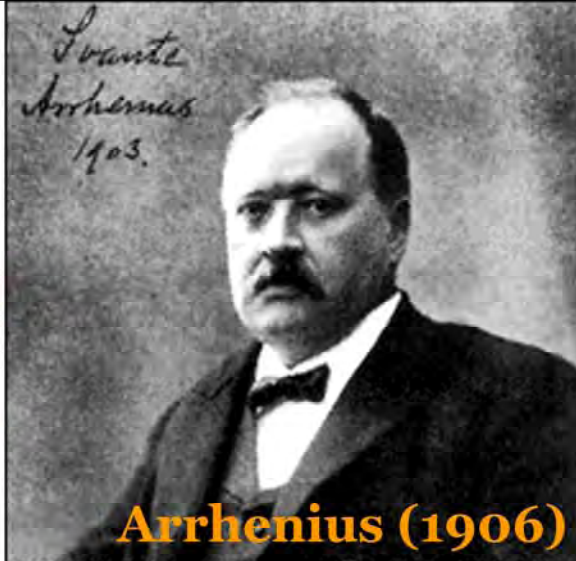
Sir David King, science advisor to Tony Blair, 2005

Al Gore and numerous others, including Sir David King in testimony before the House of Commons Environment Committee, have repeatedly said that the science of CO₂'s effect on temperature was settled in 1896, when Svante Arrhenius, a Swedish research chemist and Nobel laureate, spent a long Arctic winter performing 10,000 complex calculations by hand to demonstrate that a doubling of CO₂ concentration would cause 5 C (9 F) “global warming”. Sir David King called this result “brilliant”.



~~5.0~~ C°

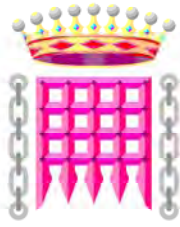
1.6 C°



Arrhenius (1906)

In ähnlicher Weise berechne ich, dass eine Verminderung des Kohlensäuregehalts zur Hälfte oder eine Zunahme desselben auf den doppelten Betrag Temperaturänderungen von $-1,5^{\circ}\text{C}$. bzw. $+1,6^{\circ}\text{C}$. entsprechen würde.

Yet again, however, we are not being given the truth. Ten years after Arrhenius' original paper, when he came across the fundamental equation of radiative transfer for the first time, he realized that instead of performing 10,000 separate calculations he could perform just one calculation integrated across all wavelengths of light incident upon the Earth's surface. So he did his sum, and found that a doubling of CO₂ concentration would cause warming of just 1.6 C – less than a third of what he had previously imagined. He published his new result, in German, in Vol. 1 No. 2 of the Journal of the Royal Nobel Institute. However, Al Gore, Sir David King, and other drivers of the "global warming" scare find it more congenial to quote Arrhenius' original, inaccurate paper, and not to make any mention of his subsequent recalculation. As we shall see, the fundamental equation of radiative transfer, which alone allows conversion of changes in radiant energy in the climatosphere to changes in temperature, is somehow not mentioned in the 2500 pages of the UN's 2007 report, nor in the 1500 pages of its 2001 predecessor. The equation, properly applied, can be used to demonstrate that the UN has made a number of fundamental errors in its calculation of the magnitude of the effect of CO₂ concentration changes on temperature.



The ‘consensus’ lie:
‘Global warming’
will be catastrophic

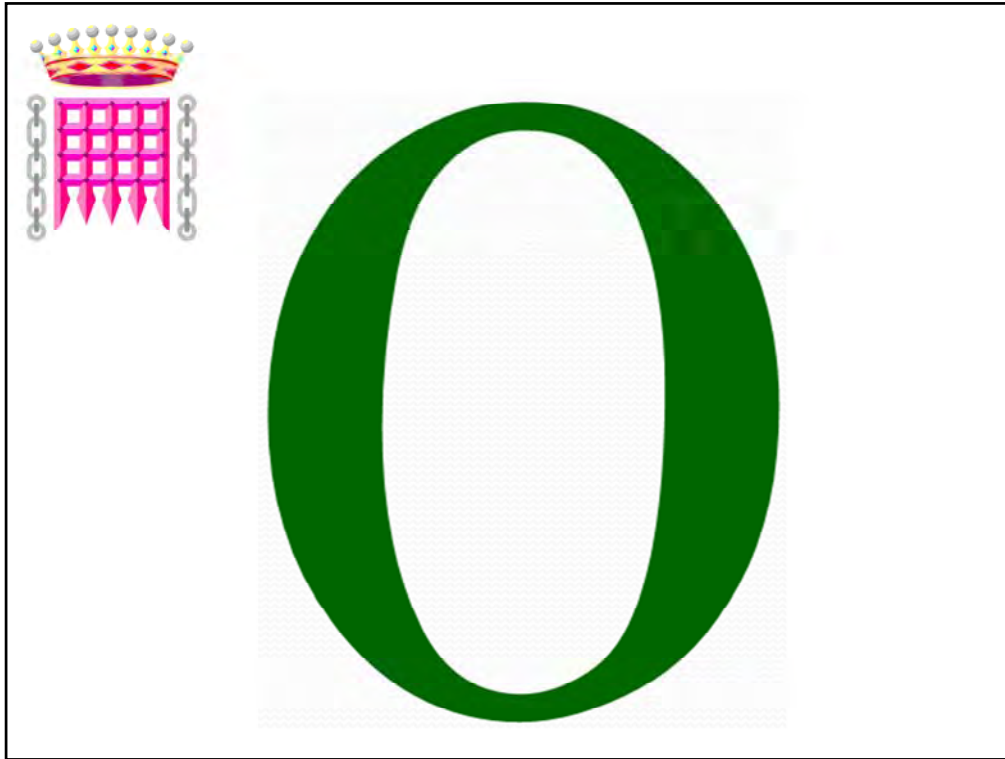
The lie nailed:

“Global climate change” papers: 539

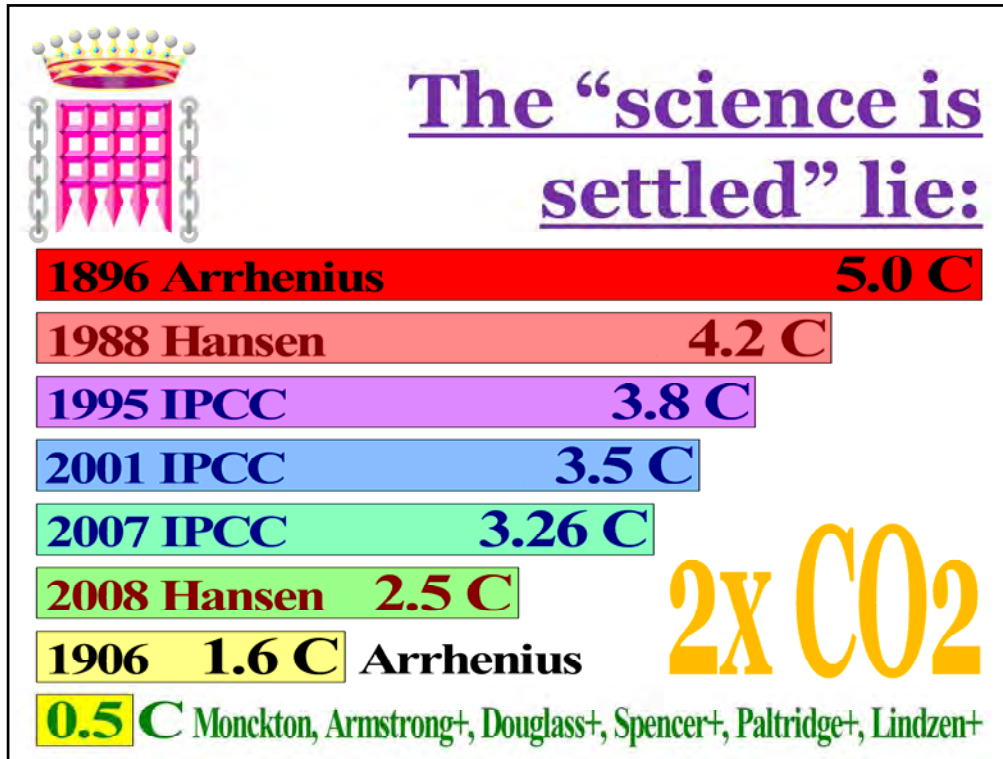
Evidence for “catastrophe”: 0

Schulte (2008)

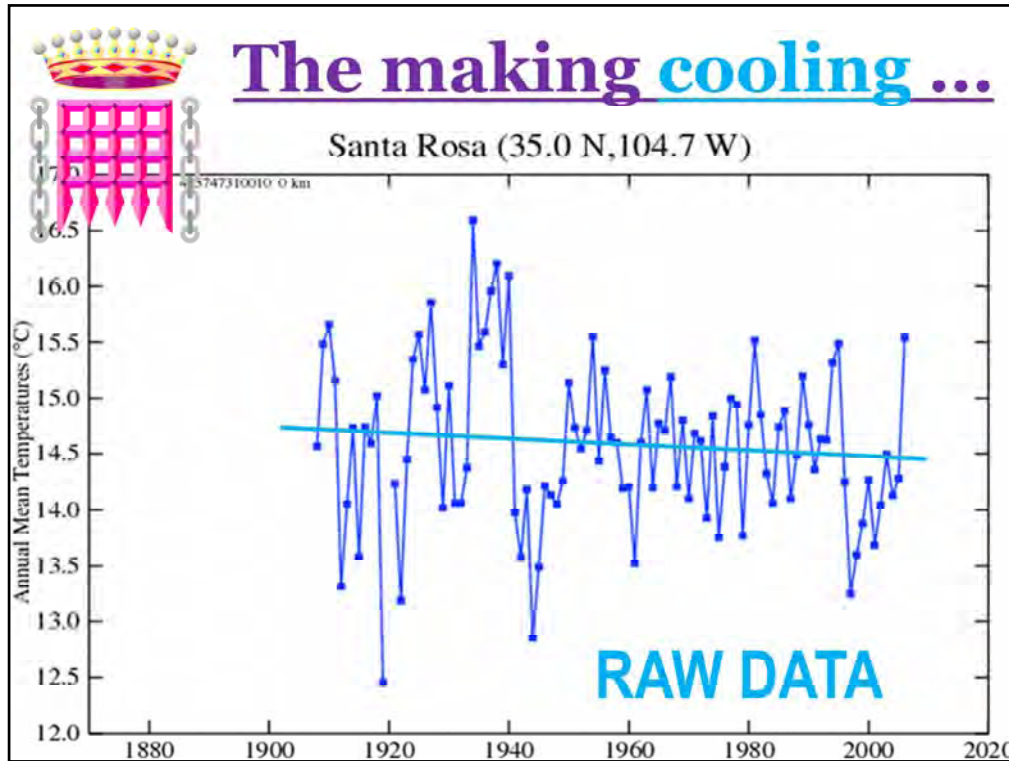
Those who wish to shut down the economies of the West are fond of saying that there is a “consensus” to the effect that, unless we revert to the Stone Age, catastrophe will be inevitable. However, a survey of 539 papers in the peer-reviewed literature published since 2004, and containing the search-phrases “global climate change”, showed that not a single paper offered any evidence whatsoever that any catastrophe would occur. The “consensus”, in other words, is not as the fearmongers say it is – not that science is done by consensus anyway.



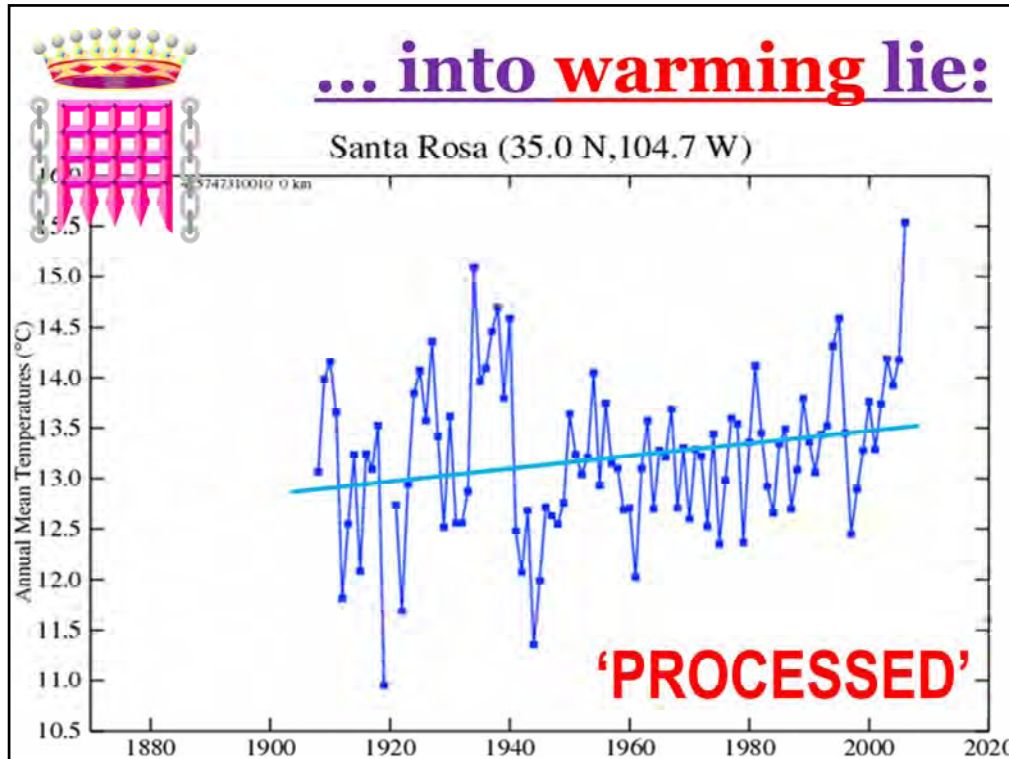
Yes, that's a big fat zero. Not one paper reviewed by Schulte (2008) offered any evidence that "global warming" might prove catastrophic.



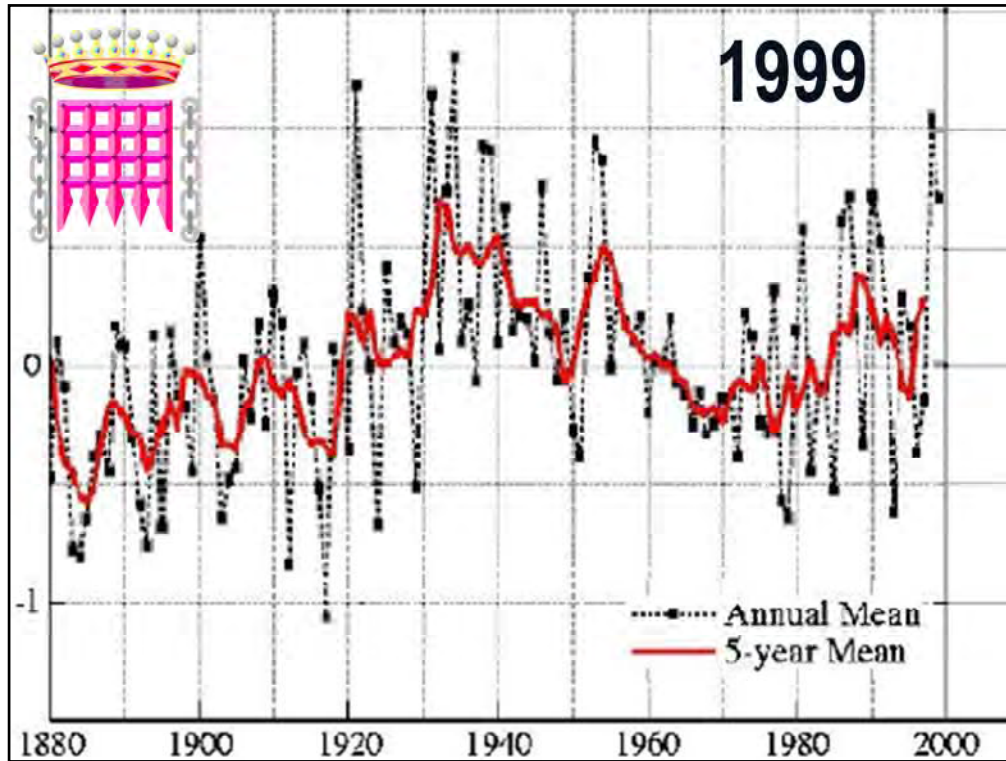
Another regularly-repeated but baseless mantra is that “the science is settled”. It is no such thing. Indeed, as the above histogram demonstrates, even the IPCC does not concur with itself. It has now been compelled to make two downward revisions in the effect of CO₂ on temperature, and the author of its 2007 central estimate has recently admitted that this, too, is an exaggeration, and that further reduction will be required when the UN next produces a major assessment report in 2014. However, as we shall see, there has been a spate of papers in the literature suggesting that a doubling of CO₂ would produce not the 3.26 C (6 F) warming predicted by the UN in its 2007 assessment report but just 0.5 C (<1 F) warming. If these papers are right – and we shall examine many of them during this presentation – then there is no “global warming” crisis, and no action of any kind need ever be taken to mitigate the emission of CO₂ into the atmosphere, for it is harmless.



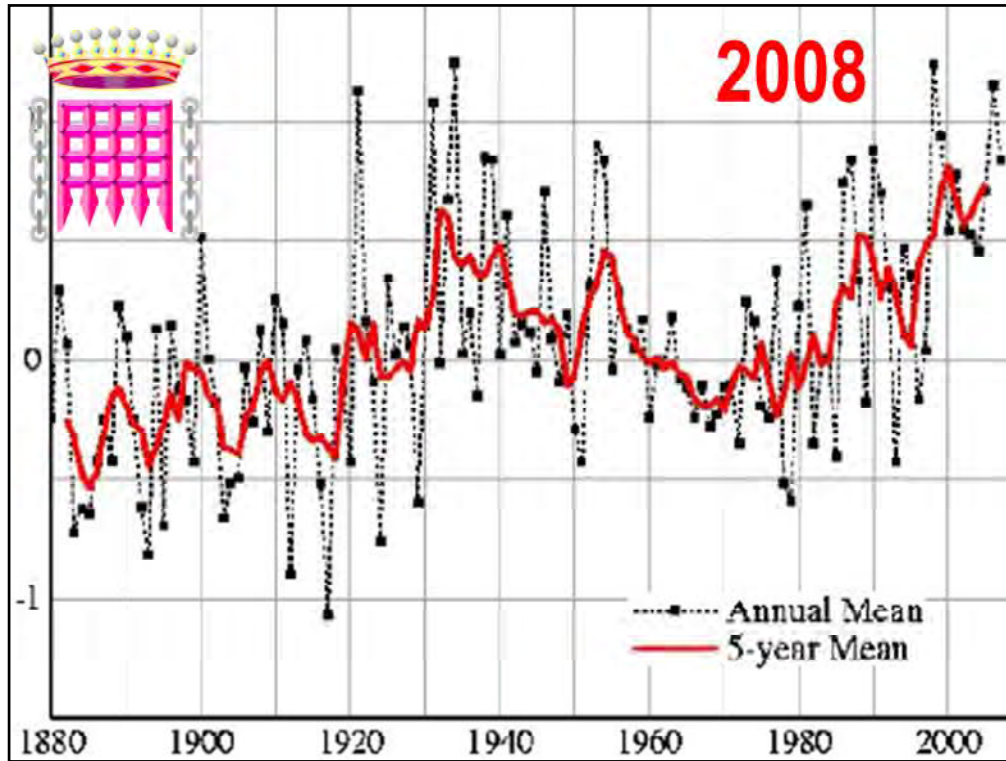
One of the least reliable global-temperature datasets is that produced by the Goddard Institute of Space Studies (J. Hansen, prop.), which is closely allied to the dataset of the National Climatic Data Center, a subdivision of the US National Oceanographic and Atmospheric Administration, headquartered in Santa Rosa, California. Here is the raw data, going back 100 years, from the Santa Rosa station, showing the considerable annual fluctuations in surface temperature, and, in particular, showing that in 1934 the temperature peaked at a mean 16.5 C (62 F) for the year. The 100-year trend in the raw data for the Santa Rosa station shows an appreciable cooling, as the slope of the trend-line demonstrates. Now watch what happened next.



Hey presto! The peak temperature in Santa Rosa, for 1934, has been “processed” downward from 16.5 C (62 F) to 15 C (59 F). By this ingenious and inexplicable revisionism, the Santa Rosa temperature record becomes one of significant warming, when the truth is that there has been modest cooling, as the raw data clearly demonstrated.



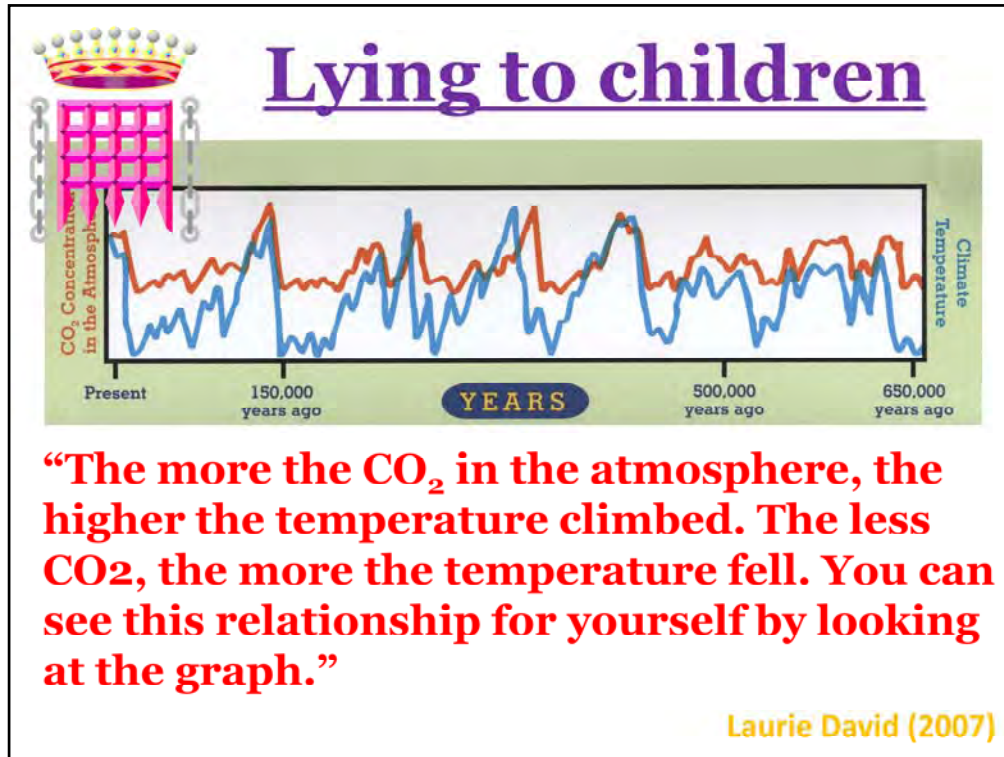
The previous two slides compared the raw data, before the revisionists had gotten at it, with the processed data, after it had been carefully tampered with so as to suggest a greater rate of warming than that which had in reality occurred. We shall now look at the combined *processed* data for 1200 US temperature stations, also compiled by the Goddard Institute for Space Studies. This graph was produced in 1999. Now look what happened next.



Just nine years after the previous graph of *processed* temperature data for the 1200 US stations, we are now looking at a revised graph of the same *processed* data. If you perform a blink-comparison between the two graphs, it is evident that there has been a massaging of the 1930s data to reduce the peak temperature somewhat. Once again, this has the effect of artificially increasing the apparent warming that occurred in the 20th century. But this time no raw data was involved. Instead, the *processed* data have been *reprocessed* so as to accelerate still further the apparent warming rate. I do not know of any credible explanation of this reprocessing of results from thousands of temperature stations – and a reprocessing that does not involve today's temperatures but those of almost a century ago.



Professor Niklas Moerner, the world's foremost expert on sea level, has been carrying out one of the most comprehensive surveys ever conducted of changes in sea level on the tropical atolls said to be at risk from "global warming". He took this picture in the Maldives, where he has concluded, after a thorough multi-disciplinary survey, that there has been no sea-level rise today compared with 1200 years ago. His story of how he came to take this picture is fascinating. He was walking along the beach when he saw this tree lying uprooted and on its side, but with fresh leaves on the branches. He enquired locally and was told that a team of Australian environmentalists, who had seen the tree and had realized that its location was proof positive that there had been no sea-level rise for at least 40 years in the Maldives, had uprooted it so as to destroy the evidence.



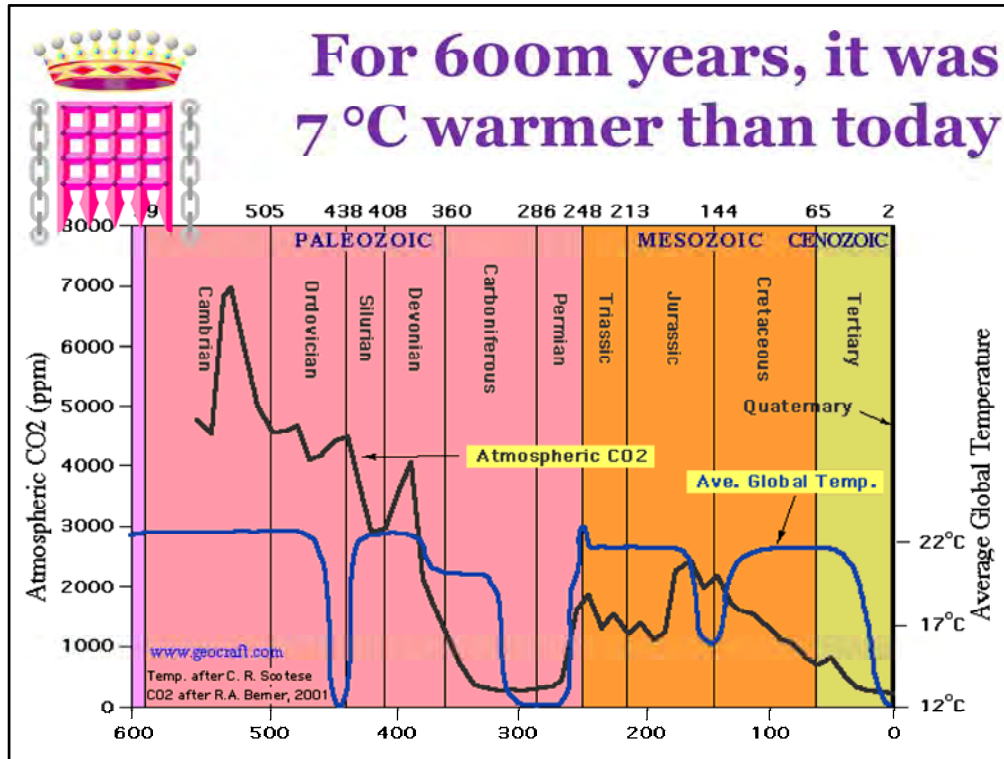
We end our section on the lies that the scientific community has told with a lie from a book for children. Many parents are rightly concerned that their children are forced to watch Al Gore's extremist political propaganda movie over and over again. Textbooks, too, are being rewritten by the revisionists so as to magnify and distort the scientific truth. Here is a flagrant instance from a book published by Laurie David in 2007. The graph, which for some reason reads right to left, purports to show that at the peaks of each of the last four interglacial warm periods it was CO₂ concentration that had changed first, triggering changes in global temperature and thus providing evidence of the power of CO₂ to alter the global climate. The caption is quite explicit – “The more the CO₂ in the atmosphere, the higher the temperature climbed. The less CO₂, the more the temperature fell. You can see this relationship for yourself by looking at the graph.” And so you can – except that both the graph and the caption are inaccurate. The brown graph, labeled “CO₂ Concentration in the Atmosphere”, is in fact the temperature graph, and the blue graph, labeled “Climate Temperature”, is in fact the CO₂ graph. For, as a stream of scientific papers analyzing the temperature and CO₂ data from ice-cores attest, in the palaeoclimate it was always temperature that changed first, and CO₂ that followed. Attempts by various scientists to persuade the author and publishers to correct the graph and the caption in the light of the overwhelming scientific evidence that both were wrong met with loutish brush-offs. And that is how far science has now sunk – children are propagandized with deliberately false information – deliberate because anyone who had merely made a genuine error would have moved heaven and earth to get it corrected before any vulnerable schoolchildren were misled.



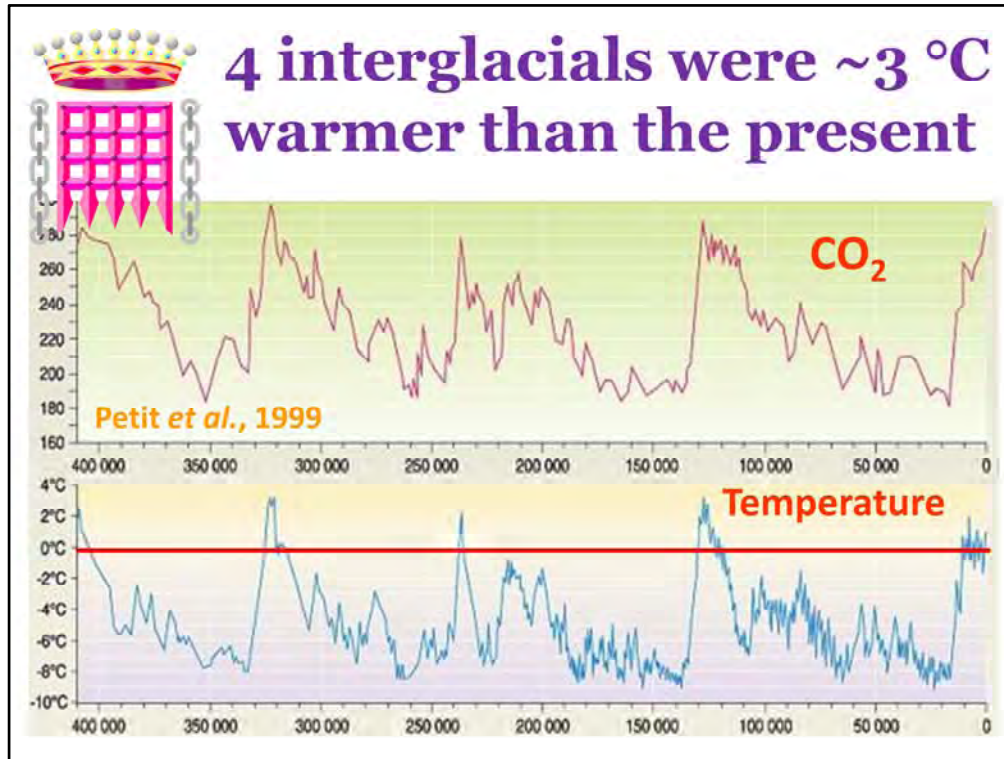
To me, one of the most startling phenomena in the climate debate is the systematic, brazen, and increasingly desperate mendacity of those peddling the “official” line. So in this part of the presentation we’re going to flick rapidly through some of the more egregious lies I’ve come across in my reading about the climate. My question is this: If the climate threat is as real as They say, why on Earth do They need to make up lies about it? Or could it be that They now know perfectly well that the whole climate scare is nonsense, but They are making far too much money out of it to let go. So they make up data, fudge graphs, distort results, and generally invent threats where none exist and then exaggerate them beyond all reason. If there is one thing I hope to convey to you by this presentation, it is a sense of due proportion in looking at this question.



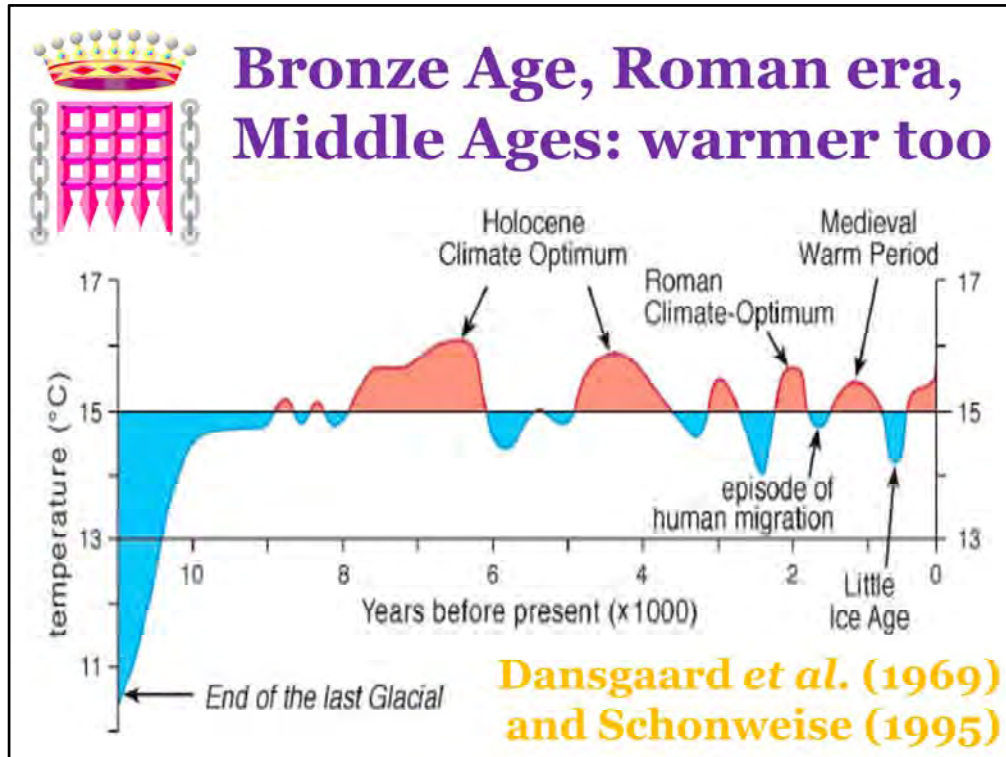
I am grateful to Professor M. I. Bhat of the Indian Geological Survey, who kindly sent me this excellent slide illustrating the fact that the current “global warming” era actually began 300 years ago.



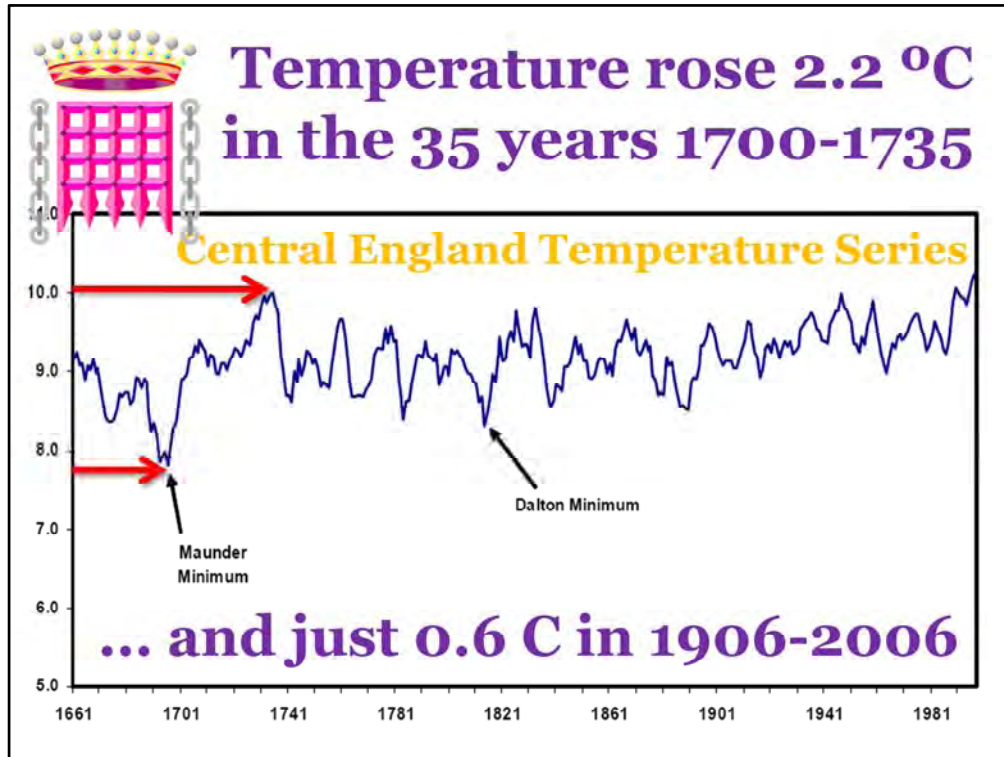
This slide puts “global warming” into a geological perspective. It shows that for most of the past 600 million years global temperatures were usually 7 C (12.5 F) warmer than the present, and that CO₂ concentration has rarely fallen below 1000 parts per million by volume. It is currently at less than 400 parts per million by volume. There has been very little correlation between past CO₂ concentrations and past global temperatures. Though correlation does not necessarily imply causation, lack of correlation necessarily implies lack of causation. On this evidence, CO₂ is at best a bit-part player in the climate. During the Cambrian era, 550 million years ago, CO₂ concentration peaked at around 7000 ppmv, about 18 times today’s concentration. Yet the planet did not fry. It was during that era that the calcite corals first evolved: they did not suffer from the “ocean acidification” that is supposed to happen when atmospheric CO₂ concentration is high.



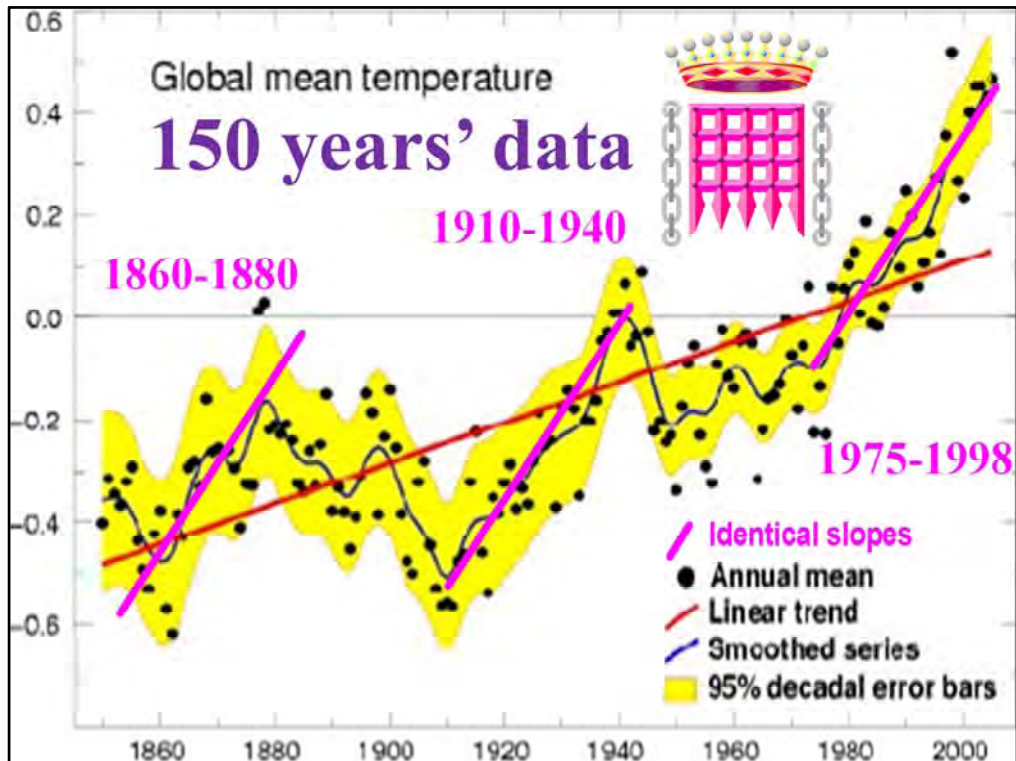
During the past four interglacial periods, which occurred at roughly 100-125,000 –year intervals, global temperatures were noticeably warmer than they are in the present day. Indeed, during much of the current interglacial warm period, which began 11,400 years ago, the weather worldwide was warmer than today. Today's temperatures, therefore, are not exceptional. At this scale it cannot be seen which graph changed first – temperature or CO₂. However, detailed analyses by several authors have established that – contrary to what Al Gore imagines – in the past climate it was always the temperature that changed first, and CO₂ concentration changed 800-2800 years later.



This graph shows that in the Bronze Age, the Roman era and the Middle Ages the climate was appreciably warmer than it is today. Once again, it is clear that today's temperatures are not unexceptional.



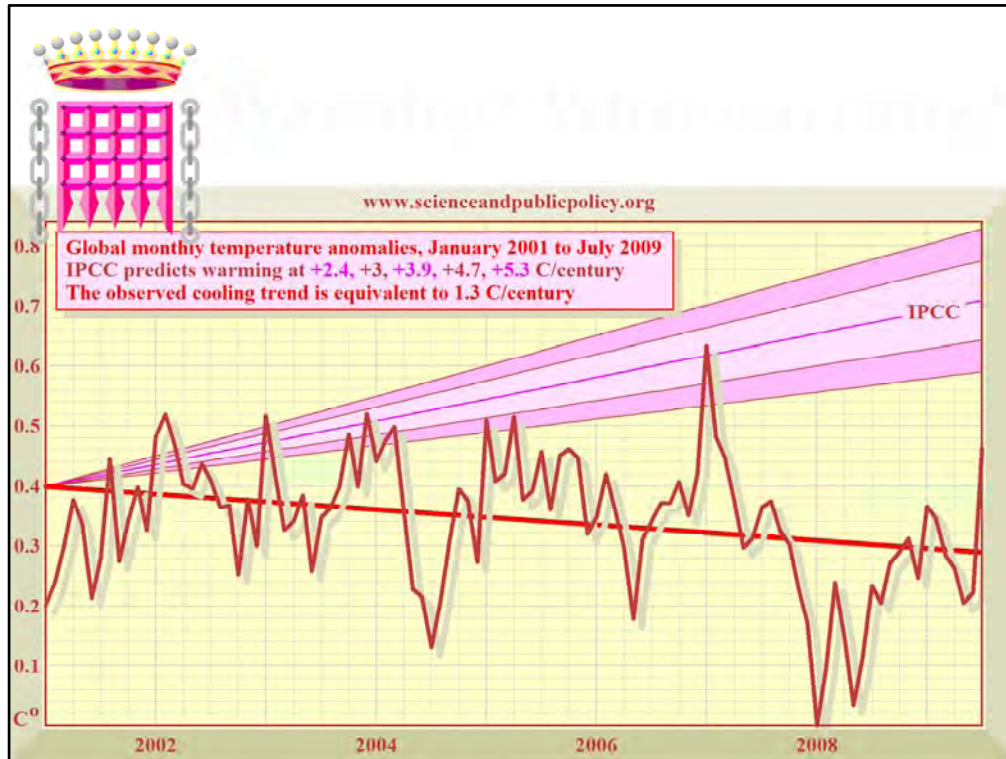
The oldest temperature record in the world is the Central England Temperature Record. That record reveals that in the 40 years 1695-1735 global temperature rose by 2.2 C (4 F). Compare this fast and substantial increase with the increase of just 0.6 C in the century from 1906-2006. From this graph, though it applied only to a single region of the planet and relied upon the very earliest temperature instruments, we learn that not only is the absolute value of today's temperature unexceptional, but the rate of warming over the past century has also been unexceptional, and well within the natural variability of the climate.



This graph, from the UN's 2007 climate assessment, has been overlaid with three strictly parallel magenta trend-lines, showing that global mean surface temperature rose no faster from 1975-1998, when in theory the anthropogenic influence on climate might have been a little more than negligible, than it did from 1860-1880 and from 1910-1940, when our influence is generally agreed to have been minuscule. I confirmed this fact with a Parliamentary Question in the House of Lords. In short, there is not yet any anthropogenic signal in the global temperature record.



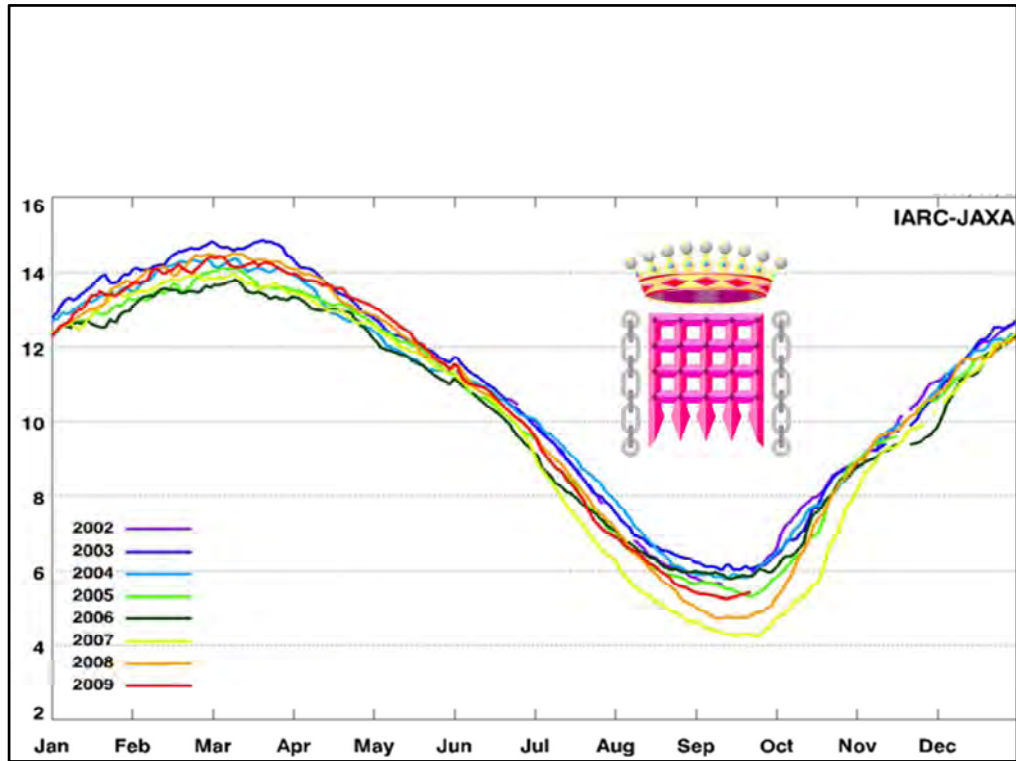
It is sometimes difficult to imagine that we are living on the same planet as the environment correspondents who now tendentiously occupy so much air-time and column inches in the world's news media. In this short segment, we shall merely report some of the truths about what is actually happening in today's real climate. Be prepared to be very surprised. Every fact that you are about to see is readily verifiable from reliable published sources: yet your mainstream news media will somehow have been careful to fail to report it.



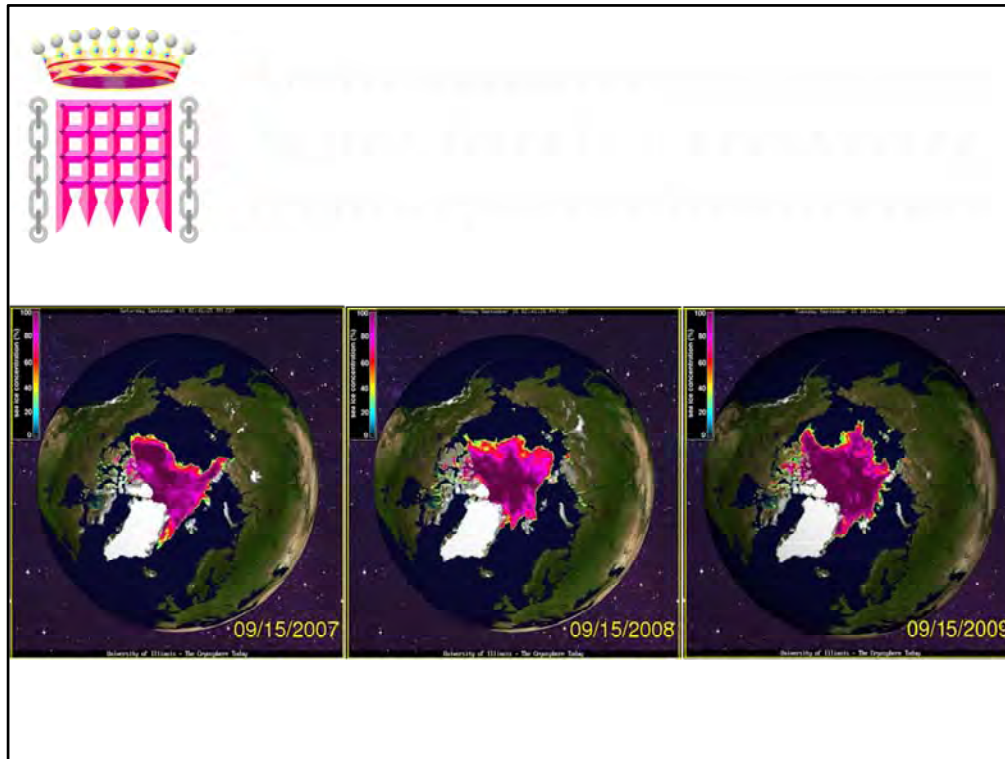
It's all about global temperature, right? Here is the trend in global mean surface temperatures, compiled as the arithmetic mean of two satellite and one terrestrial datasets. It shows rapid and significant global cooling since the millennium on 1 January 2001, compared with the rapid increase in temperature that the UN's climate panel had predicted.



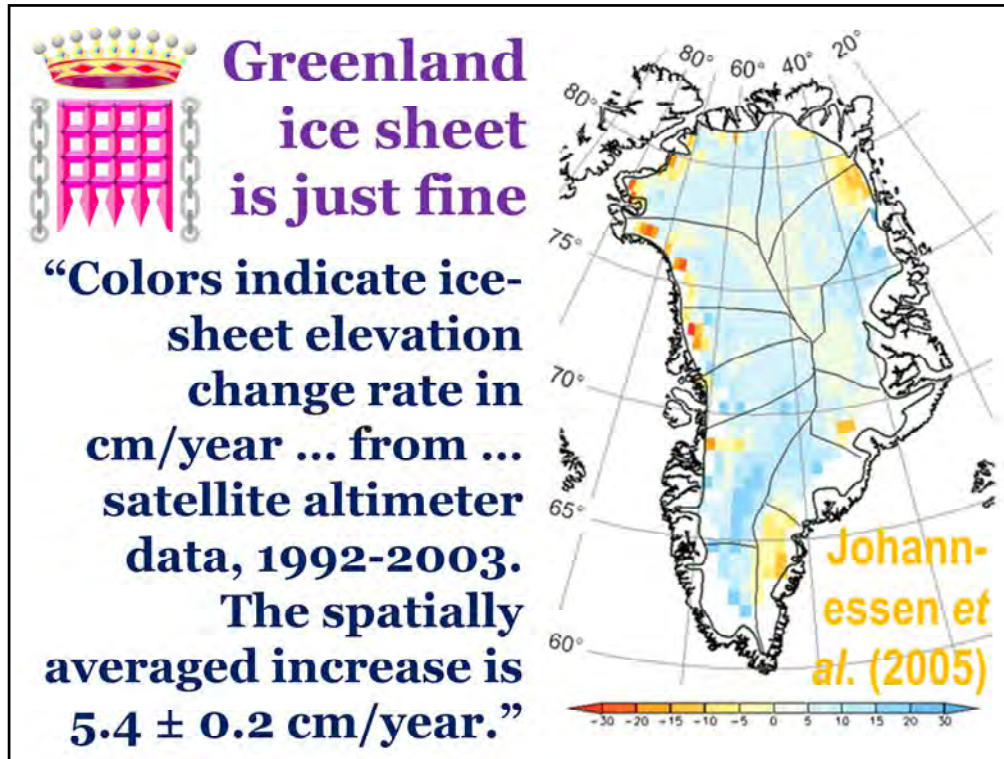
Res ipsa loquitur. I am grateful to Dr. Willie Soon of the Harvard-Smithsonian Institute for Astrophysics, who kindly communicated this photograph to me.



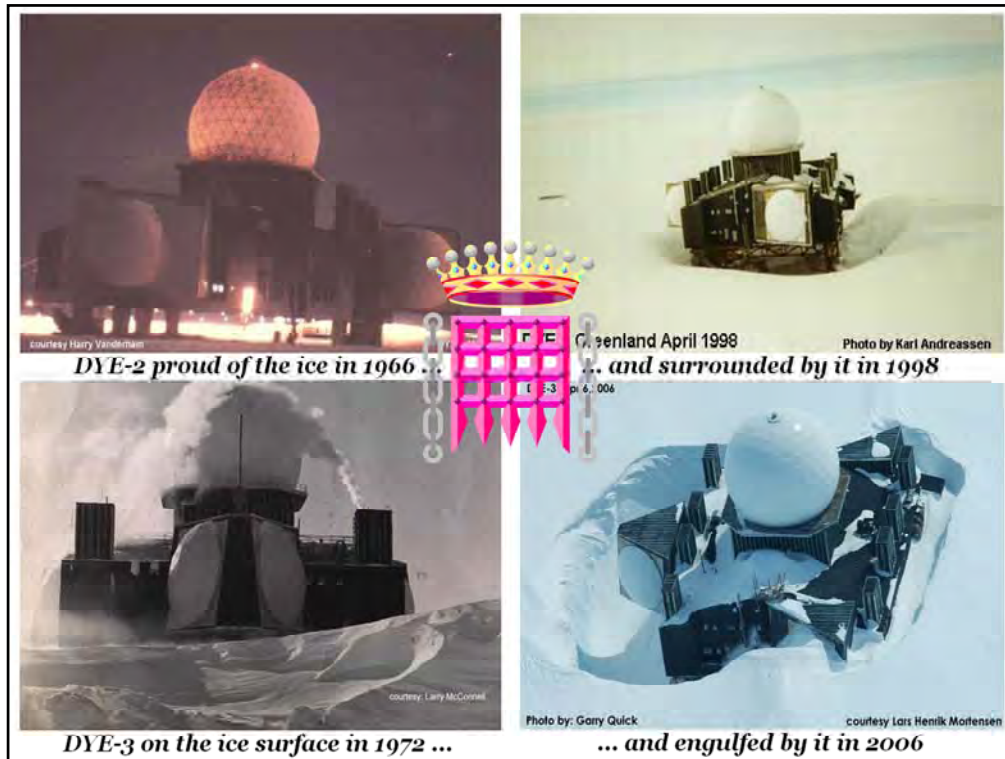
Contrary to the excitable reports in the media, and to the increasingly desperate demands by Al Gore that we should believe the sea ice in the Arctic will disappear by 2013, the extent of Arctic sea ice continues to follow a seasonal sine-wave, much as it has in living memory.



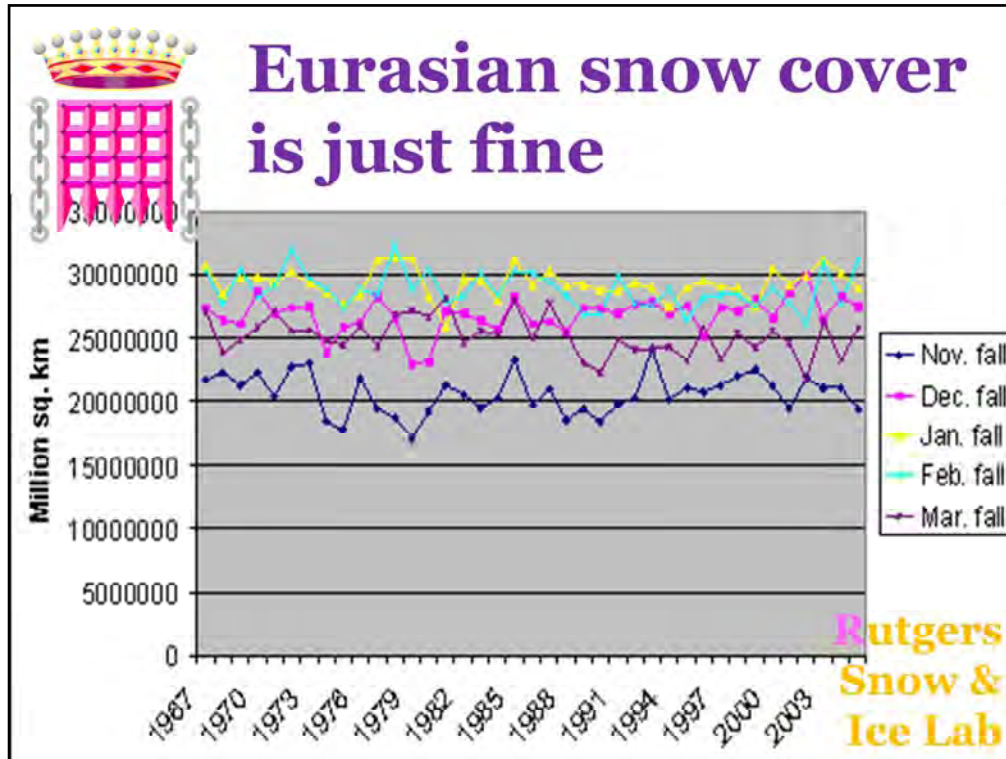
These reconstructions of total summer-minimum sea ice in the Arctic in three successive years show that, after a sudden decline in 2007 caused, according to NASA, by unusual winds and currents bringing warmer weather and water from the equator to the North Pole, the minimum has been building itself back to something very much closer to the long-term mean. On this evidence, there is no basis for alarmist statements to the effect that the summer sea-ice minimum will soon be zero. Even if this were the case, the absence of sea ice would persist only for a few days or weeks, and the polar bears – who survived the absence of sea ice at the North Pole 125,000 years ago when global temperatures were up to 6 F warmer than the present – will merely move to the surrounding lands for a few weeks, as will the seals on whose blubber they feed. But it is not particularly likely to happen.



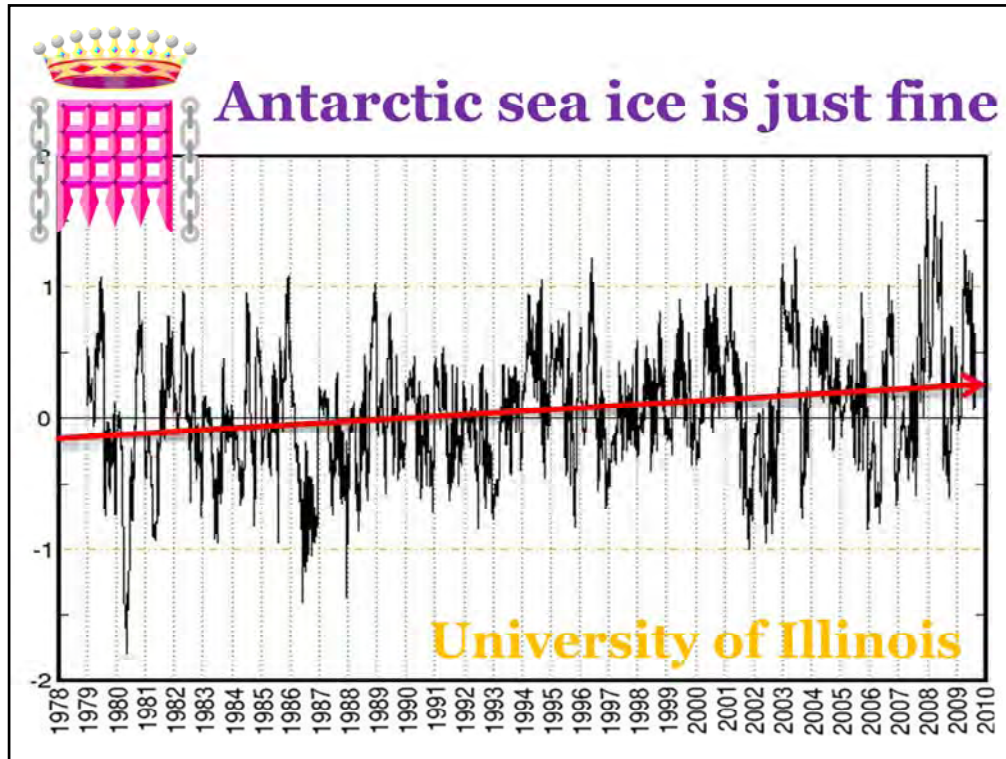
Satellite altimetry shows that the vast Greenland ice sheet has been growing in thickness by an average of 2 inches per year across the whole sheet, with the greatest accumulations in land, and with some loss of ice at the coastal margins. However, such changes – in either direction – are readily explained by alterations in the great ocean oscillations, whose very existence was only discovered a couple of decades ago. We have not yet had satellites up in space for long enough to cover a complete ~60-year oscillation of either the Pacific Decadal or the Atlantic Multidecadal Oscillation: therefore, it is far too soon to say whether the relatively small fluctuations in ice cover either in Greenland or in the Antarctic are in any way attributable to anthropogenic “global warming”.



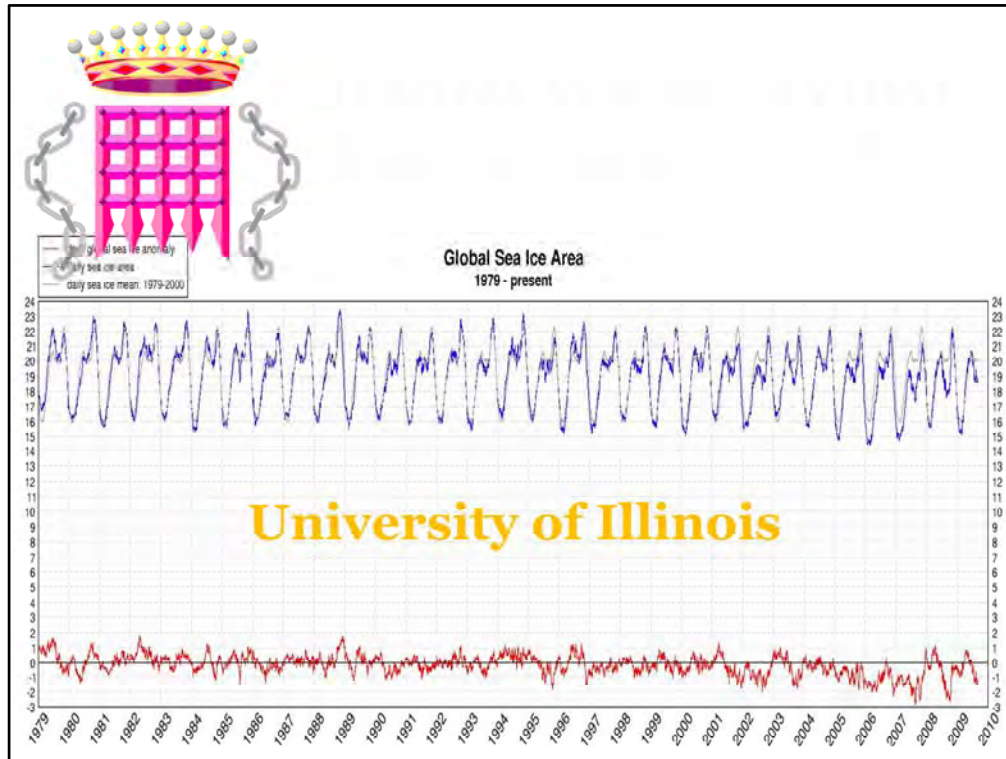
Here is visual evidence of the rate at which snow, firn, and ice are accumulating around the now-decommissioned DEW-line early-warning radar stations on the northern scarp of the Greenland plateau.



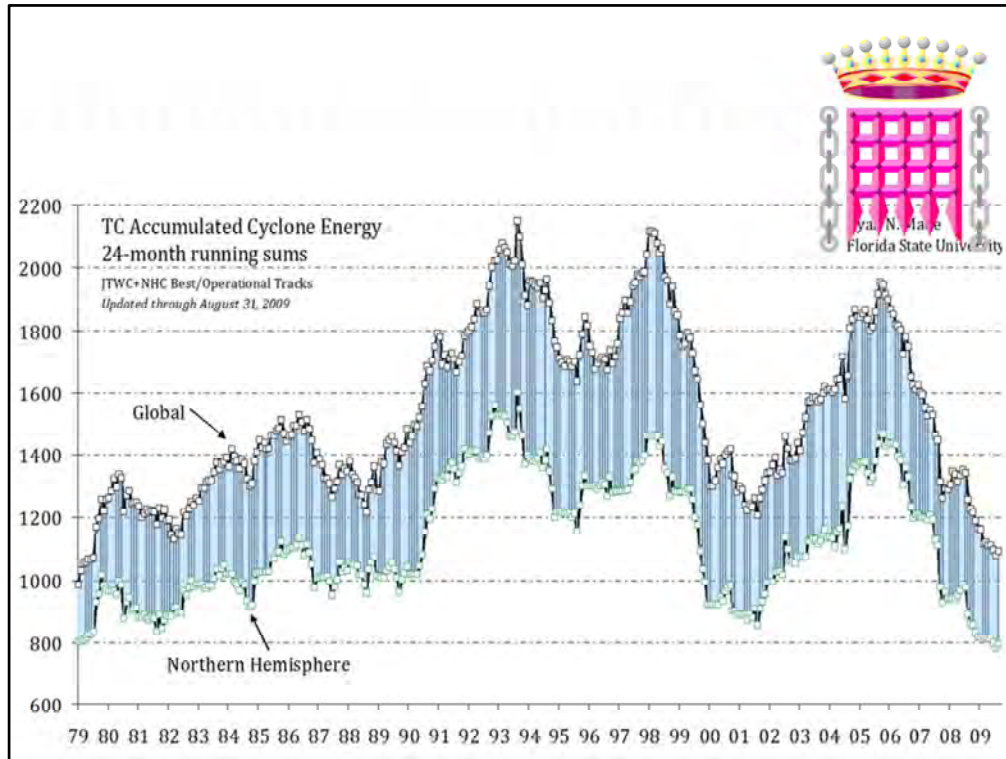
Al Gore and others have frequently but inaccurately stated that a quarter of the world's population is dependent upon water from the glaciers that debouch from the Himalayas. In fact, glacial ice-melt has always been far too small to make a significant contribution to the world's drinking water. It is, in fact, the extent of Eurasian snow cover that provides a quarter of the world with its water supply: and that snow cover, as this telling graph from the Rutgers Snow and Ice Lab limpidly demonstrates, has shown no trend in any of the five Northern-Hemisphere winter months for more than 40 years. Here as elsewhere in the climate of today, it is startling how far the actual facts and data are from what is generally reported to us by the vested interests that control the mainstream news media.



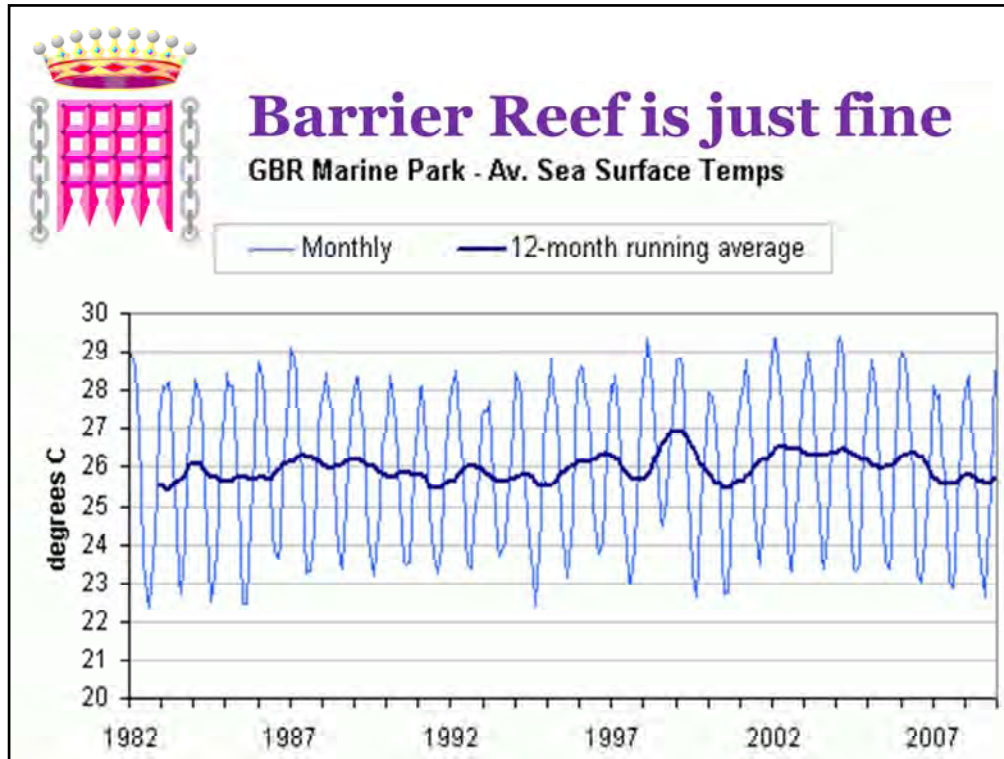
How many of your mainstream news media, that eagerly reported the 30-year minimum in Arctic summer sea-ice extent that occurred in mid-September 2007, also reported the 30-year maximum in Antarctic summer sea-ice extent that occurred just two or three weeks later? Not many? None at all? In fact, the trend in Antarctic summer sea-ice extent has been rising throughout the 30-year satellite era. Before that, we had no means of reliably estimating the extent of either Arctic or Antarctic sea ice. And here is a puzzle. The authors of the “hockey-stick” graph that purported to abolish the medieval warm period have now produced a paper saying that Antarctica has been warming for 30 years, rather than cooling as the actual temperature data suggest. The authors came to their startling conclusion by asserting that, since the temperature record is incomplete, they would interpolate made-up temperatures into regions without monitoring stations, a technique that they rightly described as “controversial”. Your question, then, is this: how could sea-ice extent have grown in the Antarctic throughout the past 30 years if the Antarctic were warming throughout the period?



This remarkable planetary “cardiogram”, showing seasonal changes in global sea-ice extent over the past 30 years, is very steady, and shows no real trend throughout the period. This graph is very different from what the news media are telling us about the world’s “disappearing” sea ice.



Al Gore, in his mendacious movie, attributes Hurricane Katrina to “global warming”, though the UN has repeatedly pointed out that individual extreme-weather events – which have always occurred and will always occur – cannot be thus attributed. Currently, though Gore is somehow not saying so, worldwide activity of hurricanes, typhoons, and other tropical cyclones – measured as the 12-month running sum of their combined frequency, intensity, and duration – is at a 30-record low that has gone entirely unreported in the mainstream news media.



It is often said that the world's corals are at risk because of "global warming". However, as the Great el Nino of 1998 demonstrated, a temporary warming of certain parts of the oceans caused the corals merely to bleach – a natural defense mechanism which enables them to survive, as they have for 550 million years since they first evolved in the Cambrian era, when CO2 concentration was 18 times today's. Much has also been said about the imagined threat from "global warming" to the world's largest coral colony – the Great Barrier Reef. However, a simple enquiry has established, as this slide shows, that throughout the past 17 years there has been no net warming of the oceans surrounding the reef.



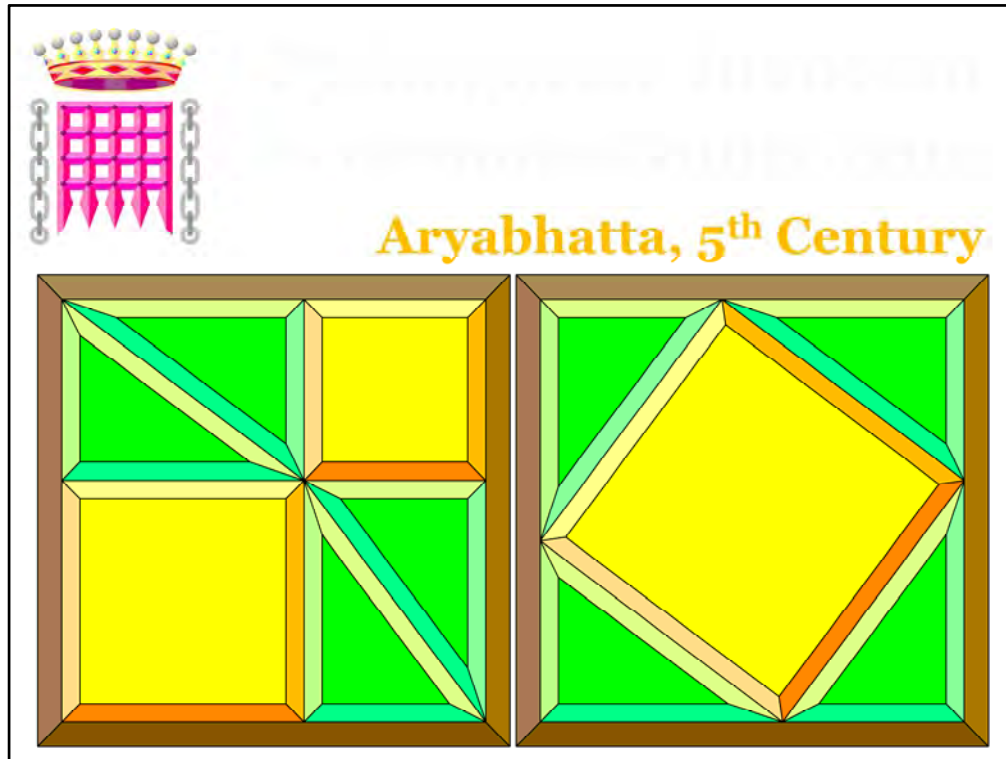
What, then, is the truth? Let us answer Pilate's question, as applied to the climate question. The only question that matters in the debate about the climate is this. How much warming will a given proportionate increase in the atmospheric concentration of carbon dioxide actually cause? The UN's answer to this question is that a doubling of CO₂ concentration - which it expects to occur within the next 100 years - will warm the planet by 3.26 C (6 F). However, as we have seen, the UN and those who ally themselves with it have been caught out repeatedly in a series of ingenious lies, and the climate - whatever the environmental correspondents of the mainstream news media may say - is not responding as expected. So, what is going on? We shall now reveal the truth about just how much - or, rather how little - even a doubling of CO₂ concentration is capable of warming the Earth. We shall begin with some long-proven results, and then move on to a remarkable series of papers in the scientific literature that have been published since the UN's last climate report, and have rendered all of its principal conclusions obsolete.



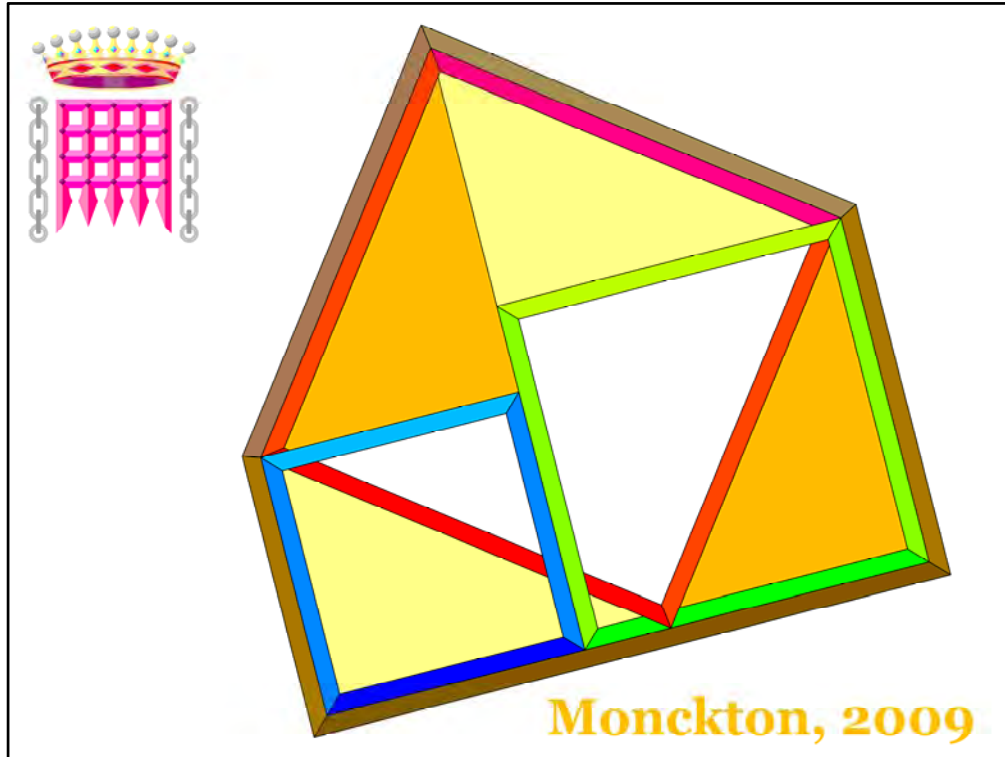
We shall reach the truth by examining eight cardinal errors in the UN's analysis. Our investigation will carry us, as on wings of angels, from the depths of the oceans to the breathless chill of outer space. But we begin, as all true scientists must, with a little mathematics.



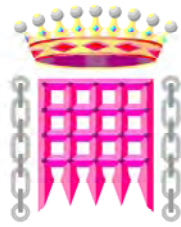
Error 1: Though the UN's case for alarm about the climate is based almost entirely on the predictions of computer models, it is long proven that models cannot reliably predict the evolution of the complex, non-linear, chaotic climate in the very long term (i.e. more than a few weeks ahead) unless the initial state of the object is known to a precision that is in practice forever unattainable (Lorenz, 1963; Giorgi, 2005). We are going to see why this is so.



The Hindu mathematician Aryabhata, in the 5th century AD, devised this elegant and simple proof-without-words of Pythagoras' Theorem. The two square wooden frames each encompass an identical area. The left-hand frame contains four identical right-angled triangles and the squares on the two short sides. The right-hand frame contains four more identical right-angled triangles and the square on the hypotenuse. Deduct the four triangles in each frame and the square on the hypotenuse is visibly equal to the sum of the squares on the other two sides. This is a complete and satisfactory proof, and it is far easier to understand than that of Euclid, usually taught in schools, which the philosopher Schopenhauer once described as "a triumph of perversity". And what, you may ask, does Pythagoras' Theorem have to do with the climate? The answer, of course, is "Nothing whatsoever". For the climate is a mathematically-chaotic object, and very little can be proven about its future evolution unless we know the values of its millions of parameters at any chosen starting-point to a precision that is not in practice attainable. In short, we cannot absolutely prove that "global warming" will – or even will not – occur at the rate imagined by the UN, for, unlike the theorem of Pythagoras, the climate question is not determinable by absolute proof. We must – and shall – instead resort to the scientific method.



And here is my variant of Aryabhata's proof. This time the wooden frame is an irregular pentagon containing, depending on how you look at it, two identical right-angled triangles and the square on the hypotenuse, or two identical right-angled triangles and the squares on the other two sides. Subtract the two triangles and the square on the hypotenuse is equal to the sum of the squares on the other two sides. This slide is just here for fun.

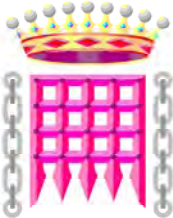


CHAOS!

“In view of the inevitable inaccuracy and incompleteness of weather observations, precise, very-long-range weather forecasting would seem to be non-existent.”

Lorenz (1963)

The late Edward Lorenz, one of America's foremost numerical weather-forecasters, founded the now-thriving branch of mathematics known as chaos theory when he published his landmark paper, *Deterministic Non-Periodic Flow*, in a climatological journal. In that paper, he demonstrated the curious quality of chaotic objects: that very small changes in their initial conditions could lead to very large changes in their subsequent evolution. These large changes, known as “phase transitions” or, more properly, as “bifurcations”, are departures from the apparently periodic or regular behavior of the object as it evolves. Lorenz's paper proved that these bifurcations are unpredictable unless the value of all initial parameters is known to a precision that, with the climate, will be forever unattainable.



**Even the simplest
chaotic equation ...**

$$f(z) \leftarrow z^2 + c$$

Top $c = 0.2500739507702906$
left: $+ 0.0000010137903618 i$

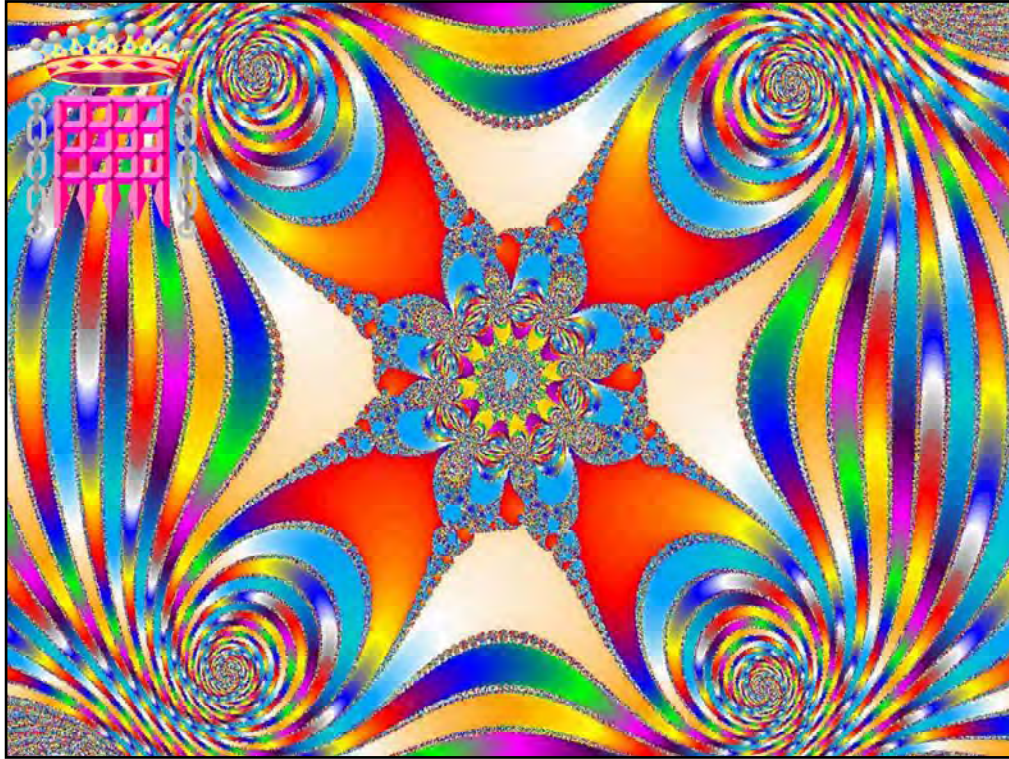
Bottom $c = 0.2500739507703702$
right: $+ 0.0000010137903127 i$

Mandelbrot (1992)

There are many chaotic equations, some complex, some – like the equation for the Mandelbrot fractal, shown here – very simple. The equation has just one parameter or initial variable – the complex number c , which is the sum of a real part and an imaginary part that is some multiple of the non-existent but mathematically-convenient square root of minus one. The Argand plane is a rectangular area whose horizontal axis carries the real numbers and whose vertical axis carries the imaginary numbers. Using the computer and this simple equation, we can draw a picture of the Mandelbrot object. However, in order to define exactly what part of the object we are looking at, we need to define the parameter c to 16 decimal places. If we were to change just the last four decimal places, an entirely different picture would appear, because the bifurcations in the chaotic Mandelbrot object would occur in completely different places.



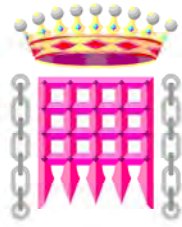
Here is a clue to what the output of the chaotic equation on the chosen fragment of the Argand plane will look like. But be warned – a chaotic equation, simple though it seems, tends to produce a complex output!



And here it is. Now, the climate object has millions of parameters that define its initial state. Given the complexity generated by an equation that has just one parameter, what is the likelihood of making accurate weather forecasts for the very long term – i.e., more than a few weeks ahead? That's right: no likelihood at all. It can't be done. We learn from this colorful illustration that there are limits to what climate models can do and that, therefore, we will be more likely to reach the truth by examining the behavior of the real climate than by trying to replicate its complexities in a computer, however powerful.



Res ipsa loquitur. Syun-Ichi Akasofu is the distinguished scientist who first chased the Aurora Borealis right round the northern Arctic in an aircraft borrowed from NASA, so that he could at last unlock the secrets of that beautiful atmospheric phenomenon for the first time. If anyone tries to say that no serious scientist disagrees with the so-called “consensus” that anthropogenic “global warming” may prove catastrophic, remember Akasofu. There are thousands of others – indeed, the Oregon Institute of Science and Medicine has obtained the signatures of some 31,000 scientists, across all disciplines, one-third of them with doctorates, who do not believe that “global warming” is manmade.



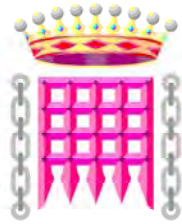
Garbage in, garbage out!

High climate sensitivity
is an **input to** the models,
not an **output from** them:

The models are tuned to assume a
high climate sensitivity, so a high
climate sensitivity is what they find.

Akasofu (2008)

The second problem with models of the climate is that they are incapable of answering the one question we need to answer – *how much* warming will a given proportionate increase in CO₂ concentration cause? – because they are told the answer at the outset. As we shall see dramatically a little later, all of the UN's models are pre-programmed to assume that climate sensitivity is high, so that is what they find, as Akasofu pointed out in a privately-circulated paper in 2008.



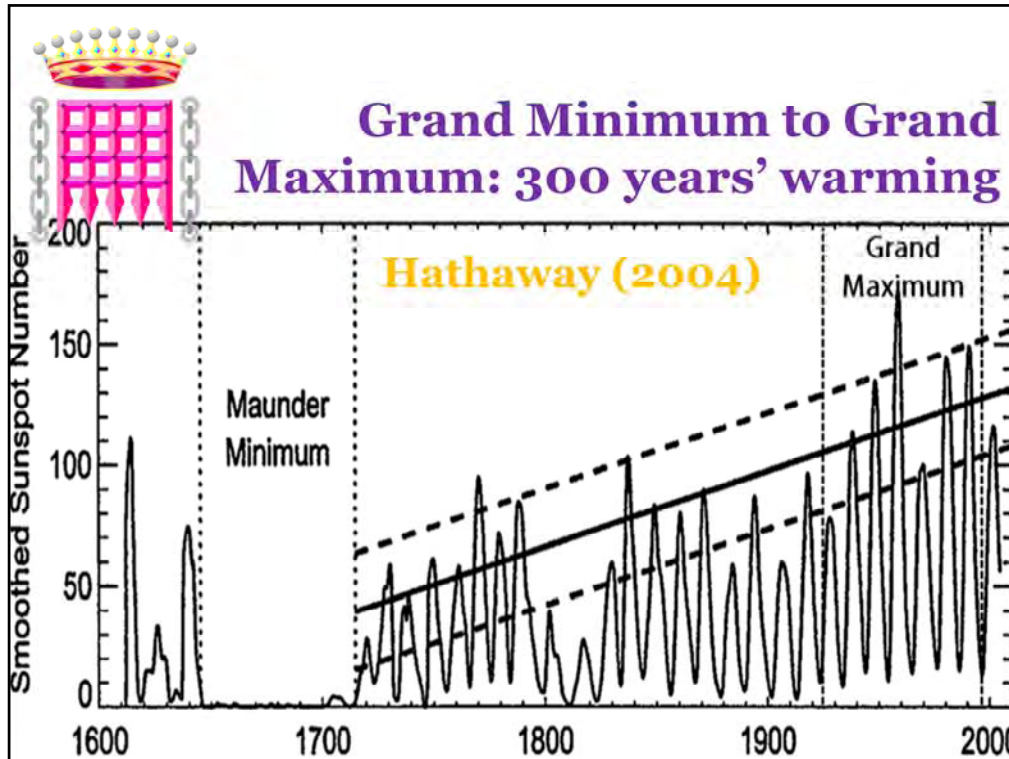
... and the last word on climate modeling

“In climate research and modeling, we should recognize that we are dealing with a coupled non-linear chaotic system, and therefore that the long-term prediction of future climate states is not possible.”

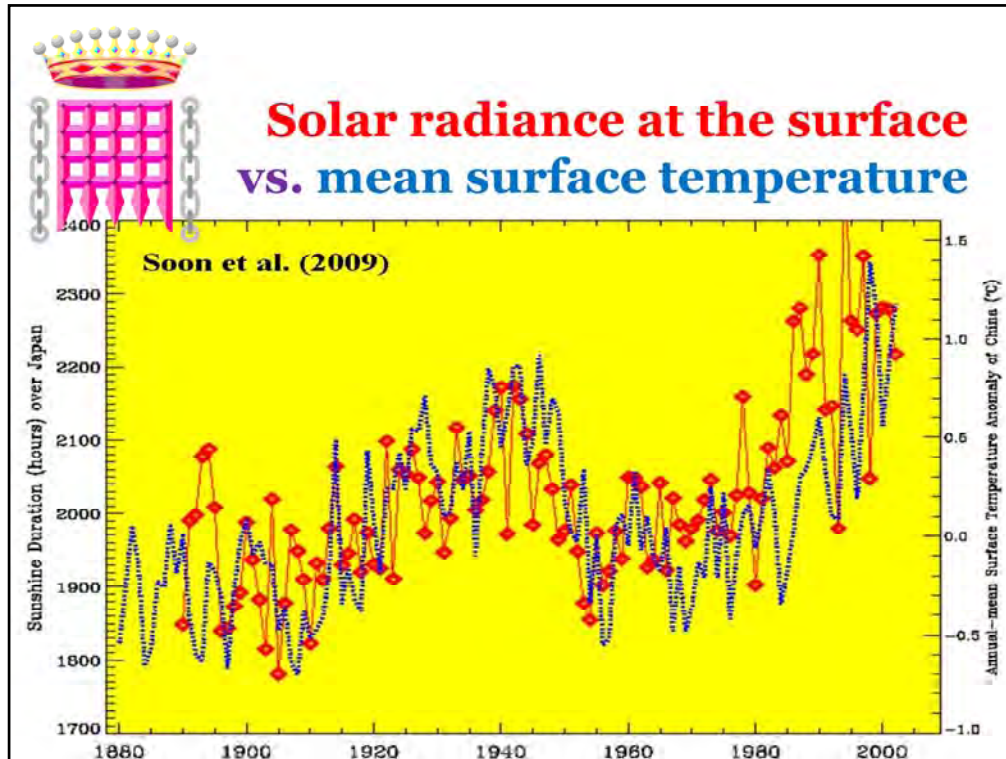
IPCC (2001)



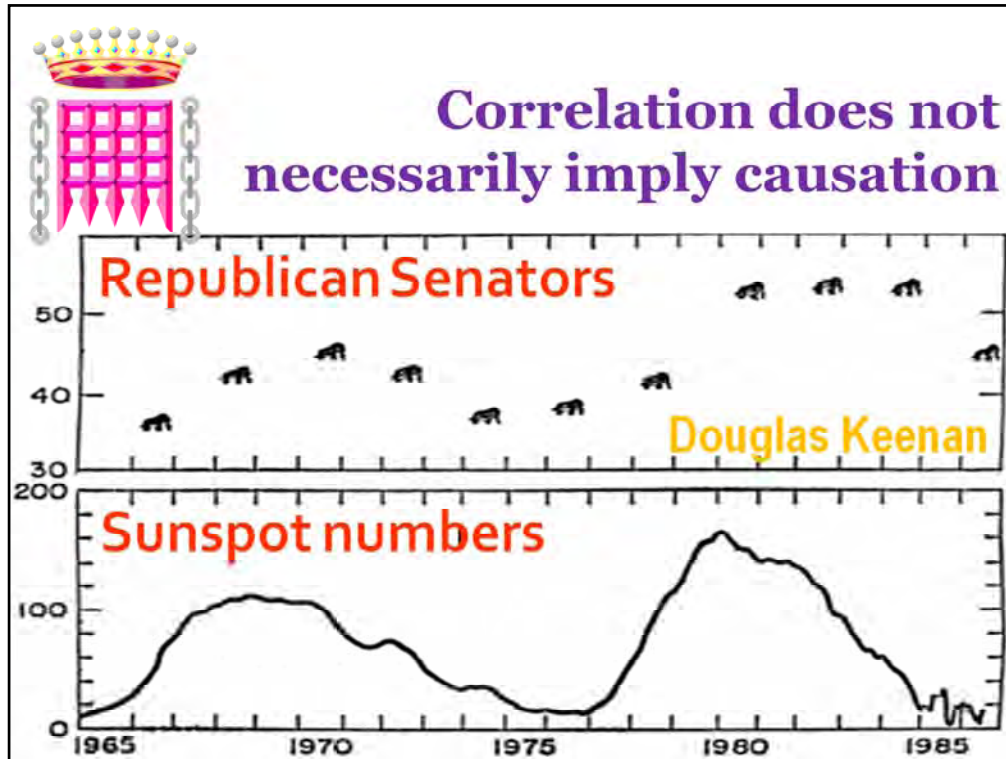
Error 2: Changes in solar radiance striking the ground, *not* changes in CO₂ concentration, fully explain recent global and regional temperature changes (Meehl *et al.*, 2009, Solanki *et al.*, 2005, Hathaway *et al.*, 2004, Usoskin *et al.*, 2003, IAU symposium 2004, Svensmark *et al.*, 2008, 2009). It's the Sun, stupid! The Sun is the source of just about all the warmth on Earth. Fluctuations in its activity, combined with short-run changes in ocean oscillations and multi-millennial changes in the orbital characteristics of the Earth, are what really determine the Earth's surface temperature. As we shall see, the very small change that we are making in the composition of the atmosphere simply lacks the power to exercise more than a very small, harmless, and generally beneficial influence on global temperature.



The present interglacial warm period has only persisted for 11,400 years. These warm periods are rare – occurring only once every 125,000 years in recent geological time – and are usually no more than 5000 years long. We are long overdue for the next Ice Age. Remarkably, however, in just 300 years the activity of the Sun has passed from a 70-year-long Grand Minimum, with almost no sunspots and a corresponding drastic cooling of the Earth's climate that led to the freezing-over of the Thames in London and the Hudson in New York in most winters, to a 70-year-long Grand Maximum that ended just before the second millennium ended. The Grand Minimum and Grand Maximum were, respectively periods during which the Sun was less active or more active than at almost any time in the past 11,400 years. This graph by Dr. Hathaway of NASA, one of the world's foremost solar physicists, shows the dramatic increase in solar activity over the past 300 years. No real surprise, then, that there has been "global warming" over the same period.



What is the chief cause of the fluctuations in temperature at the Earth's surface? For more than a century, the Japanese have been monitoring surface-mounted calorimeters that detect how much solar radiation actually penetrates the clouds and the atmosphere and reaches the ground. Their record of the variations in solar radiation striking the Earth's surface is shown in red on this graph, and mean surface temperature in the region of the South China Sea over the same period is shown in blue. It appears that the duration of sunshine over Japan and the surface temperature there are correlated. However ...



... Correlation does not necessarily imply causation. In this interesting and important climatological result, kindly communicated to me by Douglas Keenan, the number of sunspots on the solar surface is uncannily closely correlated with the number of Republican senators in the upper House of the United States legislature.



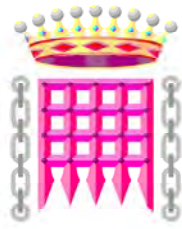
Likewise, the *fact* that warming has occurred does not tell us its cause. The supposed melting of the Greenland ice sheet (which in fact continues to accumulate ice mass at a rapid rate, as we have seen) might be caused by Al Gore with a flamethrower.



Who, then, has the best forecasting record for global temperature in recent years? One candidate is the International Astronomical Union, which held a symposium in 2004 that issued a communique saying that solar changes are the major cause of temperature changes on Earth; that the Sun caused the “global warming” of the previous three centuries; that the warming of that period was normal, not unusual; and that the “global warming” that had been continuing for 300 years would soon end. The IAU’s forecast has proven far more successful than those of the IPCC, which have predicted relentless warming.



Error 3: The UN had predicted that CO₂ concentration would rise to 836 ppmv by 2100. However, for the past decade concentration has been rising in a straight line towards just 575 ppmv. Natural “sinks” are removing carbon dioxide from the atmosphere so fast that, despite high *emissions*, its concentration is rising at less than half the rate predicted by the UN (IPCC, 2001). This one circumstance, alone, requires all of the UN’s “global warming” projections for the current century to be halved.

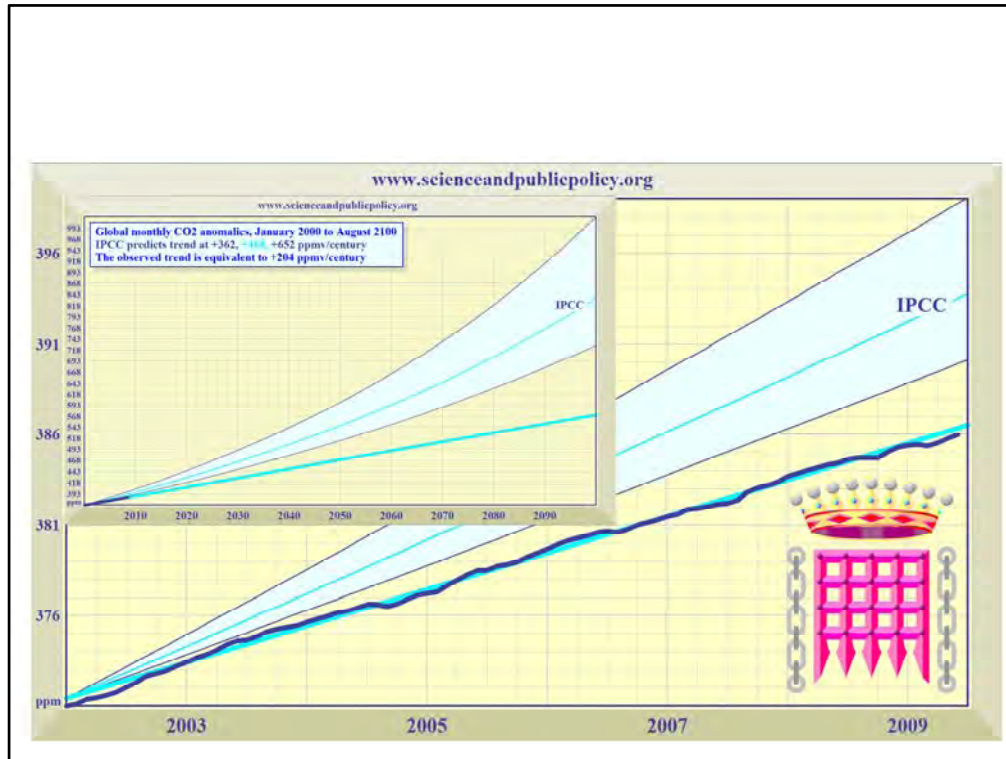


CO₂ is only a trace gas

CO₂ in the atmosphere as % by volume

1750	2009	Change
0.03%	0.04%	+0.01%

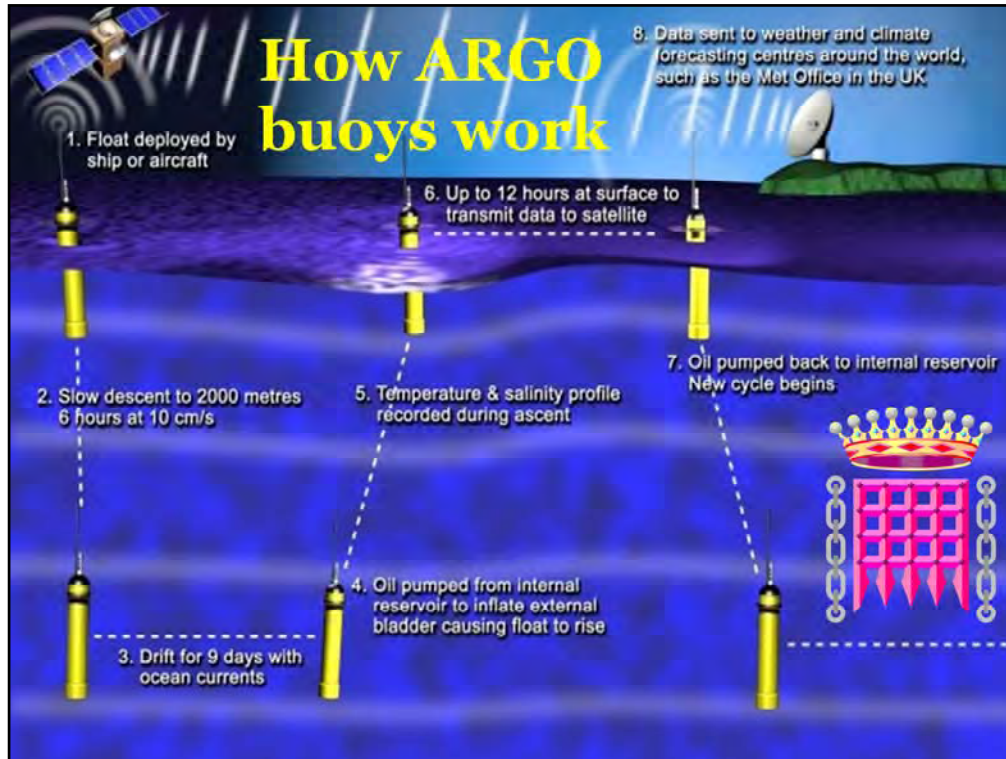
CO₂ is only a trace gas. Even the UN calls it a trace gas. In 1750 it occupied 0.03% by volume of the atmosphere. Now it still occupies less than 0.04% - an increase of 0.01%, or one-ten-thousandth part, of the atmosphere in a quarter of a millennium.



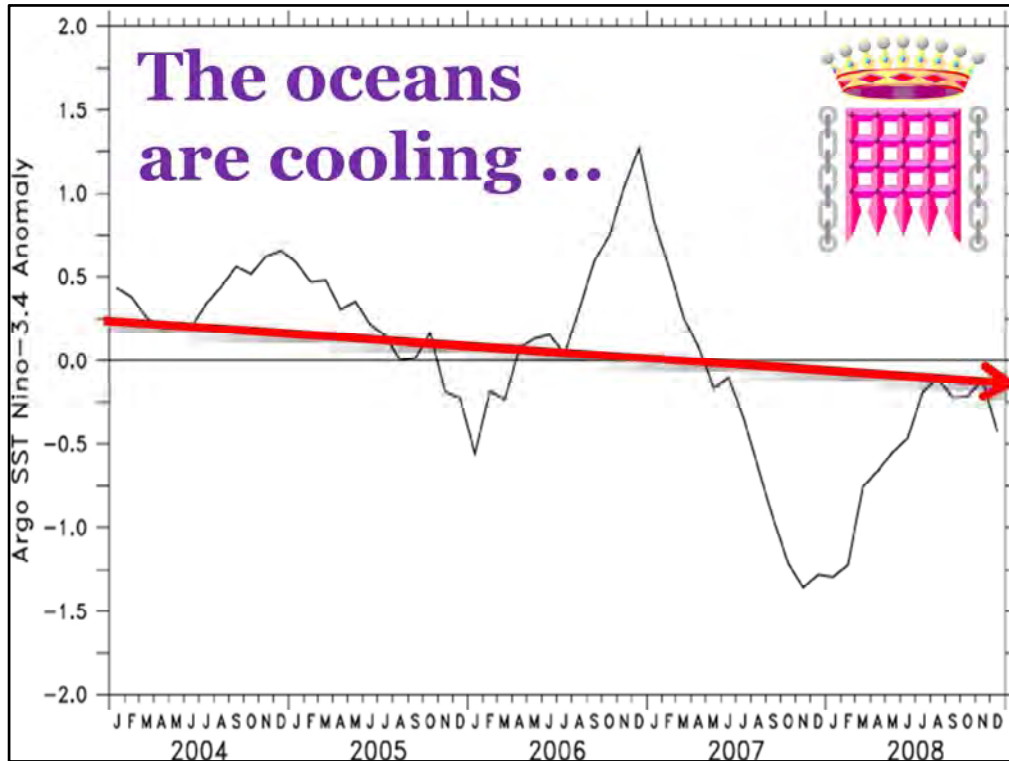
This graph, based on the global CO₂ concentration dataset maintained by the US National Oceanographic and Atmospheric Administration, shows that, although the UN's climate panel projects an exponential increase in CO₂ concentration throughout the century, reaching 836 ppmv by 2100, for the past decade CO₂ concentration has risen linearly towards just 575 ppmv by 2100.



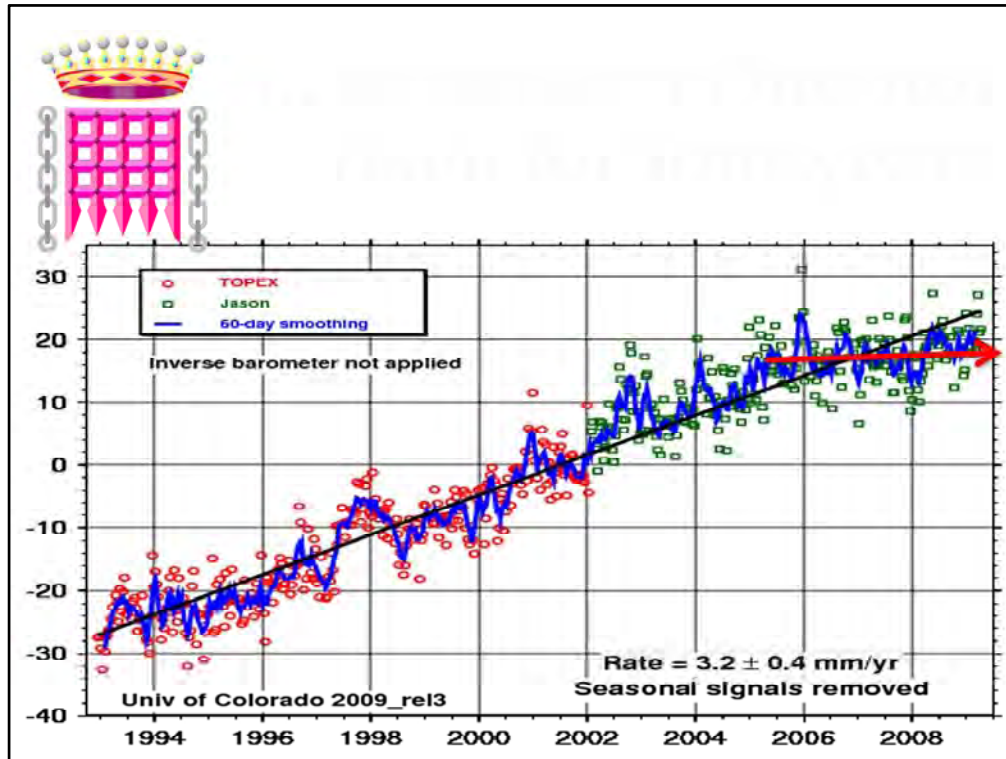
Error 4: The models predict that nine-tenths of all warming caused by anthropogenic greenhouse-gas emissions should accumulate in the upper 400 fathoms of the oceans, but if anything the oceans have been cooling since 2003, when the 3319 bathythermograph buoys of the ARGO project were first deployed (ARGO project, 2009).



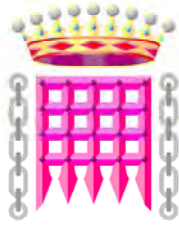
The ARGO bathythermograph system is the most elaborate temperature-monitoring system the world has seen. It consists of 3300 automated buoys deployed throughout the world's oceans, diving at intervals and then coming to the surface to report temperature and salinity by satellite. For the first time, this system provides a more or less reliable indication of changes in sea surface temperature. Such changes are important to the climate change debate, because it is agreed among all parties that some 80-90% of the heat energy that is predicted to accumulate in the atmosphere as a result of anthropogenic "global warming" must accumulate in the upper 400 fathoms of the oceans – the region where the ARGO buoys operate.



This is the result of the first five full years' ocean surface temperature monitoring by the ARGO system. Sea surface temperatures have closely mirrored air temperatures, and – like air temperatures – have fallen throughout the period.



Given that sea temperatures have been falling, and that the vast majority of any sea-level increase arising from “global warming” is predicted to occur by thermosteric expansion of the oceans as they warm, it is no surprise that, in the past four years, there has been little or no increase in global sea level as measured against a reference geoid by the JASON satellite controlled by the University of Colorado.



No ocean heat buildup for 50 years

Douglass & Knox, 2009

Professors David Douglass and Robert Knox of the University of Rochester, New York, published a paper in the late summer of 2009 indicating, after a detailed analysis of sea-temperature records going back half a century, that there has been no net accumulation of heat-energy in the oceans throughout that period. Instead, the fluctuations in ocean heat content appear to be closely correlated with the approximately 30-year cycles of the Pacific Decadal Oscillation. This finding is fatal to the notion of high climate sensitivity advanced by the UN, for, if the heat that is supposed to be retained in the climate system is not accumulating in the oceans, which are 1100 times denser than the surface atmosphere, then the much-vaunted locked-in warming in the pipeline that is often mentioned by environmentalists will not in fact occur.



Error 5: The UN says cloud-albedo feedback is strongly positive: however, it is strongly negative (Spencer *et al.* 2008, 2009). Roy Spencer and his colleagues at the University of Alabama at Huntsville have studied cloud albedo – the process, illustrated in this slide, by which clouds reflect sunlight harmlessly back to outer space. By the Clausius-Clapeyron relation, as the space occupied by the atmosphere warms it is capable of carrying near-exponentially more water vapor – and some of that water vapor ought to form additional cloud cover, reflecting more sunlight back into space and partly compensating for the original warming. However, the UN’s climate panel imagines that the “cloud-albedo feedback”, as it is known, is strongly positive – i.e., that it very substantially amplifies the original warming, rather than partly offsetting it.



Let us do a scientific experiment. Look at this image through half-closed eyes. Which are the most visible objects on the Earth? The clouds, of course, because sunlight that strikes them is largely reflected harmlessly back into space, causing no warming. And next, we shall do some nice equations ...

The Stefan-Boltzmann Equation

$$F = \epsilon \sigma T^4$$

This equation is not mentioned once
in 1600 pages of the UN's 2007 report

Why not?

This is the fundamental equation of radiative transfer. It is the only equation that allows a direct calculation of changes in temperature at the emitting surface of a planetary body such as the Earth, by relating them to changes in the flux of solar radiant energy striking the emitting surface. Without this equation, one cannot calculate “global warming” at all. Yet the UN, which spends 1600 pages telling the reader everything about every aspect of “global warming”, does not mention this equation once in 1600 pages. Why not? The answer, as we shall see, is that the equation can be used in a number of ways to demonstrate that the exaggerated estimates of the effect of CO₂ on global temperatures that are imagined by the UN have no basis in scientific reality. Take one look at the equation. There is not a direct relationship between changes in radiative flux and changes in temperature: it is a fourth-power or quartic relationship. That means temperature will only change very slowly in response even to quite a large change in radiative flux, such as that which the UN thinks might be caused by doubling the CO₂ concentration in the atmosphere. We shall apply this equation in various ways during the remainder of this presentation.

**Warmer weather means more clouds.
Does the cloud-albedo feedback amplify
or part-nullify the warming?**

$$S = 1368 \text{ W m}^{-2} \quad \varepsilon = 0.96 \quad \sigma = 5.67 \times 10^{-8} \text{ K}^{-4}$$

$$\alpha_0 = 0.16 \quad \alpha_1 = 0.30$$

$$T_s = [(S/4)(1 - \alpha_1)/(\varepsilon\sigma)]^{1/4} = 257.5 \text{ K}$$

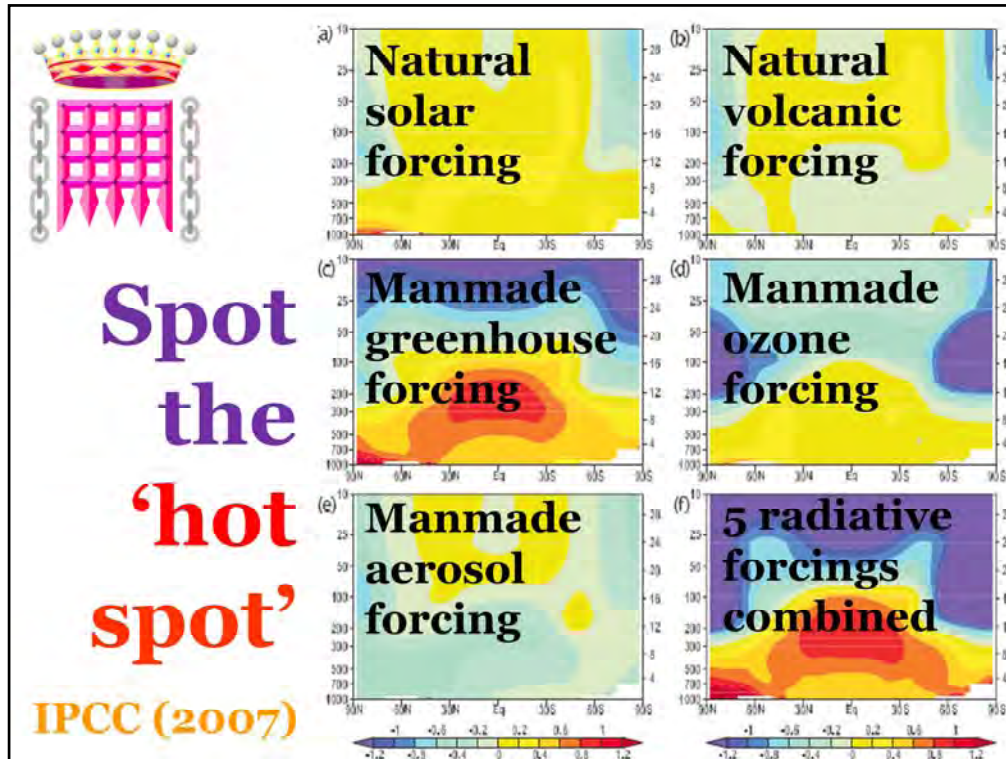
$$T_s = [(S/4)(1 - \alpha_0)/(\varepsilon\sigma)]^{1/4} = 269.5 \text{ K}$$

$$\text{Albedo feedback (whole atm.): } -12.0 \text{ K}$$

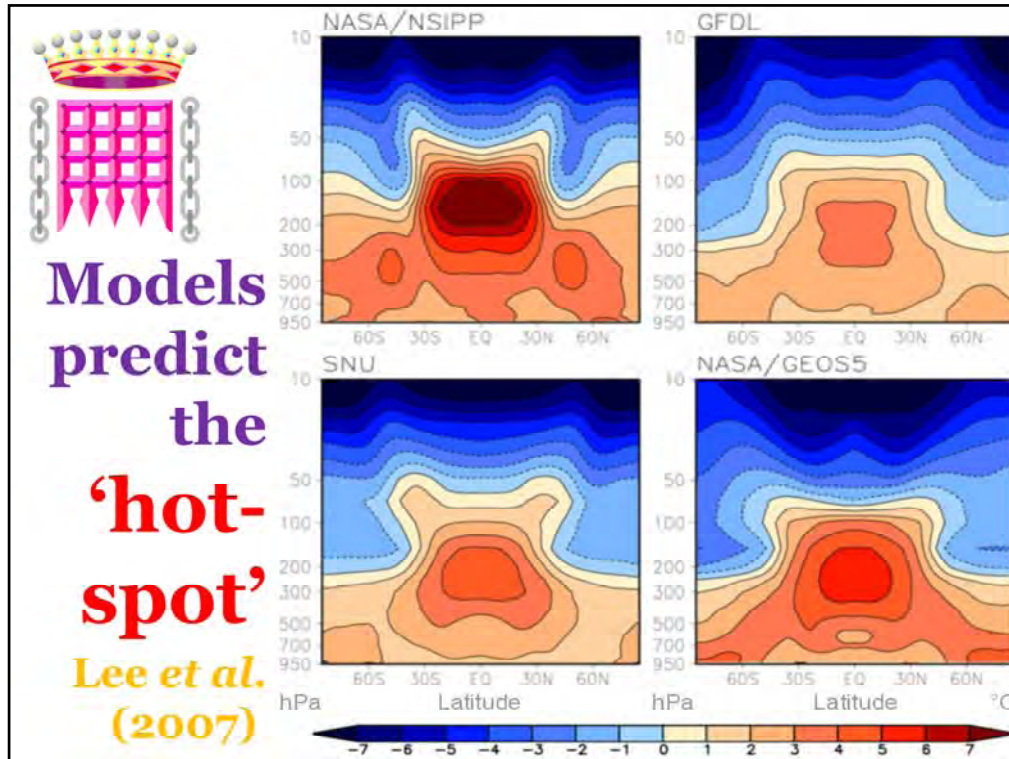
Here we demonstrate, very easily, that increasing the Earth's albedo has a very large cooling effect, not the large warming effect imagined by the UN. The albedo, indicated traditionally by the Greek letter alpha, is around 0.3 today: in other words, clouds and to a far lesser extent ice and seawater reflect 30% of all solar radiance harmlessly back into space. Now let us boldly take away the entire climatosphere, leaving just the lithosphere – an Earth-sized lump of rock similar to Mars today. Today's Martian albedo, in the absence of clouds like those on Earth, is just 0.16 – only one-sixth of all sunlight falling upon Mars is reflected straight back into space. The Earth without an atmosphere would have a surface temperature of 269.5 Kelvin (just below the freezing-point of water). However, if there were no atmosphere and yet we could magically preserve today's Earth albedo of 0.3, the surface temperature of the Earth without an atmosphere would be another 12 K (22 F) cooler. In short, the higher the albedo the cooler the planet – and by a very large margin. Given this simple result, it is not at all likely that in today's atmosphere the increase in cloud cover that would arise if "global warming" resumed would reinforce the original warming caused by greenhouse-gas enrichment. It is far more likely that there would be a compensatory cooling, and quite a large one. Or, in scientific jargon, that the cloud-albedo feedback would be negative, not strongly positive as the UN's climate panel imagines.



Error 6: The UN's models all predict that in the tropical upper troposphere, around six miles above the equator, there will be rapid warming, at thrice the surface rate. However, this differential warming rate has not been observed in more than half a century of careful measurements by balloon-mounted radiosondes, and more recently by satellite measurements.

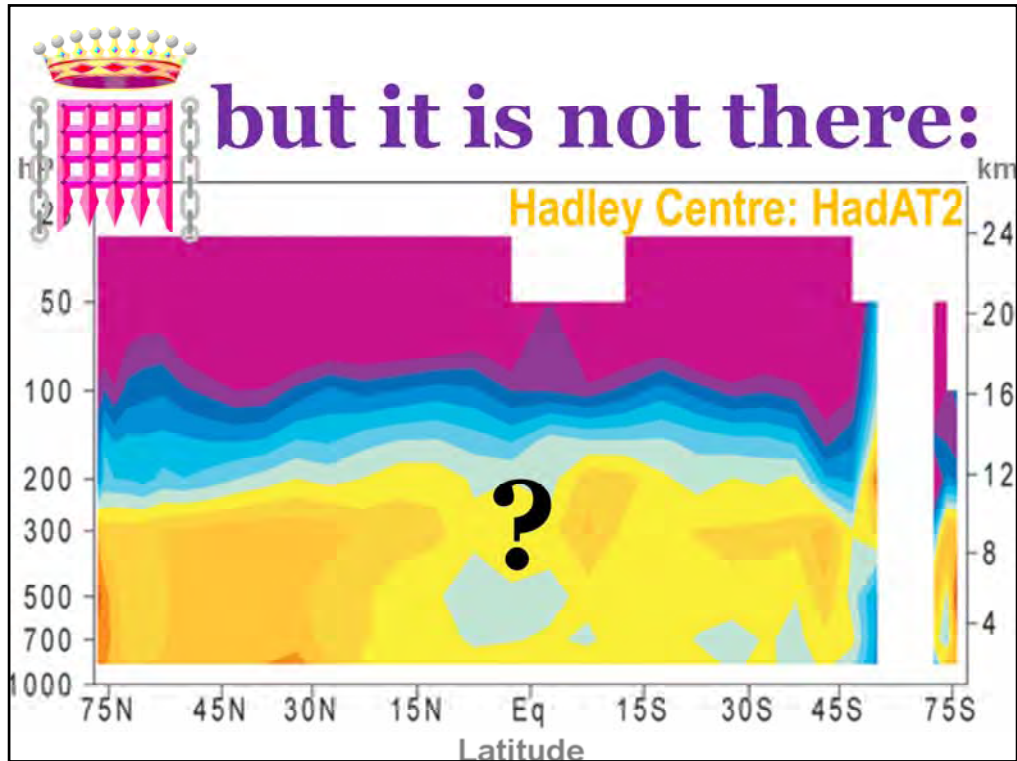


The computer models on which the UN's climate panel so heavily relies suggest that, if and only if "global warming" caused by manmade greenhouse-gas emissions occurs, the warming of the tropical upper troposphere will be approximately 2.5 to 3 times the surface rate of warming.



**Models
predict
the
'hot-
spot'**
*Lee et al.
(2007)*

All of the UN's computer models predict the existence of the tropical upper-troposphere "hot-spot".



However, as this real-world altitude-vs.-latitude plot from the UK Hadley Centre demonstrates, the “hot spot” is simply not present. Professor Richard Lindzen of MIT, who first noticed the discrepancy between the models’ predictions and the observed reality shown here, has concluded that the absence of the “hot-spot” in the tropical upper air requires all of the UN’s projections for anthropogenic warming to be divided by at least 3 – in short, that we would be looking at a warming of just 1 C (2 F) in response to a doubling of atmospheric CO₂ concentration, which is expected this century. Scientists supporting the UN’s notion of high climate sensitivity to CO₂ have tried to overthrow the observed temperature records for the tropical upper troposphere by saying that there are very large uncertainties even in satellite temperature measurement at that altitude and that, therefore, it is possible to imagine that the required warming differential might be occurring, even though it has never been measured.



Error 7: Removing the atmosphere and adding it back demonstrates that climate sensitivity is less than one-sixth of the UN's predicted central estimate (Monckton, 2008; Monckton & Evans, 2009). It is all a question of proportion and perspective. Even if we succeed in doubling the atmospheric concentration of CO₂ this century, we shall have altered the composition of less than one-two-thousandth part of the atmosphere. Yet the UN imagines that this minuscule alteration in atmospheric composition will induce a warming that is one-sixth as large as that which we have already demonstrated is caused by the presence (as opposed to the complete absence) of the entire atmosphere. How likely is that?

Can changing 1/2000 of the atmosphere cause global warming equivalent to that caused by 1/6 of the entire atmosphere?

$$S = 1368 \text{ W m}^{-2} \quad \varepsilon = 0.96 \quad \sigma = 5.67 \times 10^{-8} \text{ K}^{-4}$$

$$\alpha_0 = 0.16 \quad \alpha_1 = 0.30$$

Today's temperature: 288.0 K

$$T_s = [(S/4)(1 - \alpha_0)/(\varepsilon\sigma)]^{1/4} = 269.5 \text{ K}$$

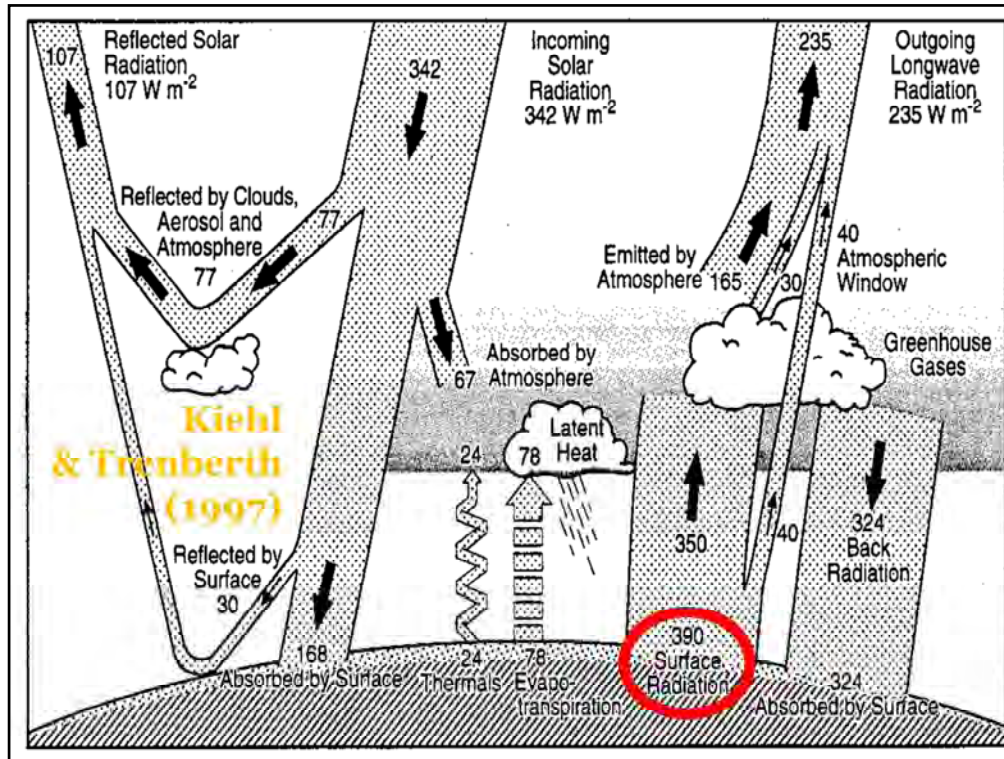
Warming (whole atmos.): 18.5 K

UN A2 projection, 2000-2100: +3.4 K

% of whole-atm. temp. change: 16.2 %

% atm. altered: (468/1,000,000): 0.05%

And here are the calculations, done in Kelvin degrees, which we must use when applying the Stefan-Boltzmann equation. Today's measured mean global surface temperature is 288 K (around 15 C, or 59 F). However, without the atmosphere, and with an albedo adjusted to reflect the absence of the clouds, the surface of the Earth would only be 18.5 K (33 F) cooler than today. The UN imagines that in this century our alteration of less than one-two-thousandth part of the atmosphere will cause one-sixth as much warming as the presence of the entire existing atmosphere causes. This is not sensible, or at all probable.



One of the many complexities of our climate is the Earth's "radiation budget" – i.e. what happens to the solar radiant energy between the moment when it enters the atmosphere and the moment when it leaves. This diagram, which has been very widely reproduced, is from the classic paper by Kiehl & Trenberth on the Earth's radiation budget, published in 1997. However, note the circled value – the radiant energy present at the Earth's surface today. Kiehl and Trenberth admit (but without actually mentioning the Stefan-Boltzmann equation) that they have used its methodology to calculate the value of 390 Watts per square meter from the fact that the mean surface temperature of the Earth is 288 K. However, if no temperature feedbacks of any kind operate at the Earth's surface – and this is the strong implication of Kiehl and Trenberth's use of this particular value for surface radiation – then the temperature change per unit change in surface radiation is far smaller than the UN imagines, as we shall now demonstrate by using, again, the fundamental equation of radiative transfer.

Walking the Planck

$$\Delta T = \Delta F \kappa f = \Delta F \kappa (1 - b \kappa)^{-1} = \Delta F \lambda$$

$$\Delta F = 5.35 \ln 2 = 3.71 \text{ W m}^{-2} \quad b = 2.06 \text{ W m}^{-2} \text{ K}^{-1}$$

IPCC (2007)

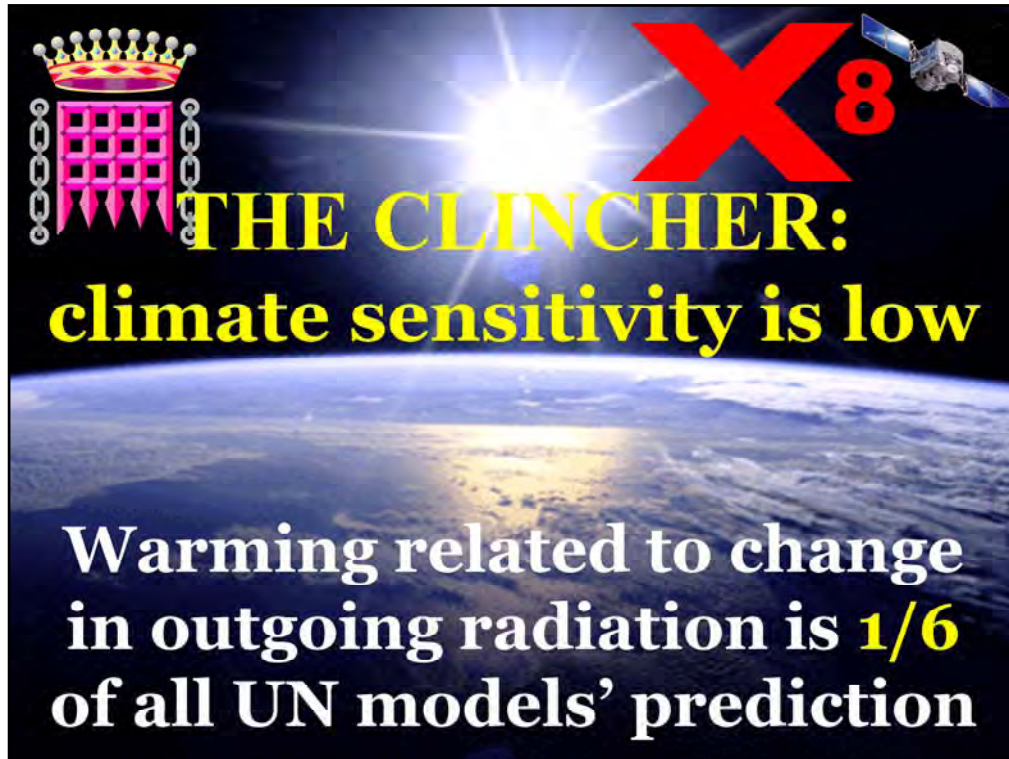
$$\kappa = 3.2^{-1} = 0.313:$$

$$\Delta T = 3.3 \text{ K}$$

Kiehl & Trenberth (1997)

$$\kappa = 288 / (4 \times 390) = 0.185: \quad \Delta T = 1.1 \text{ K}$$

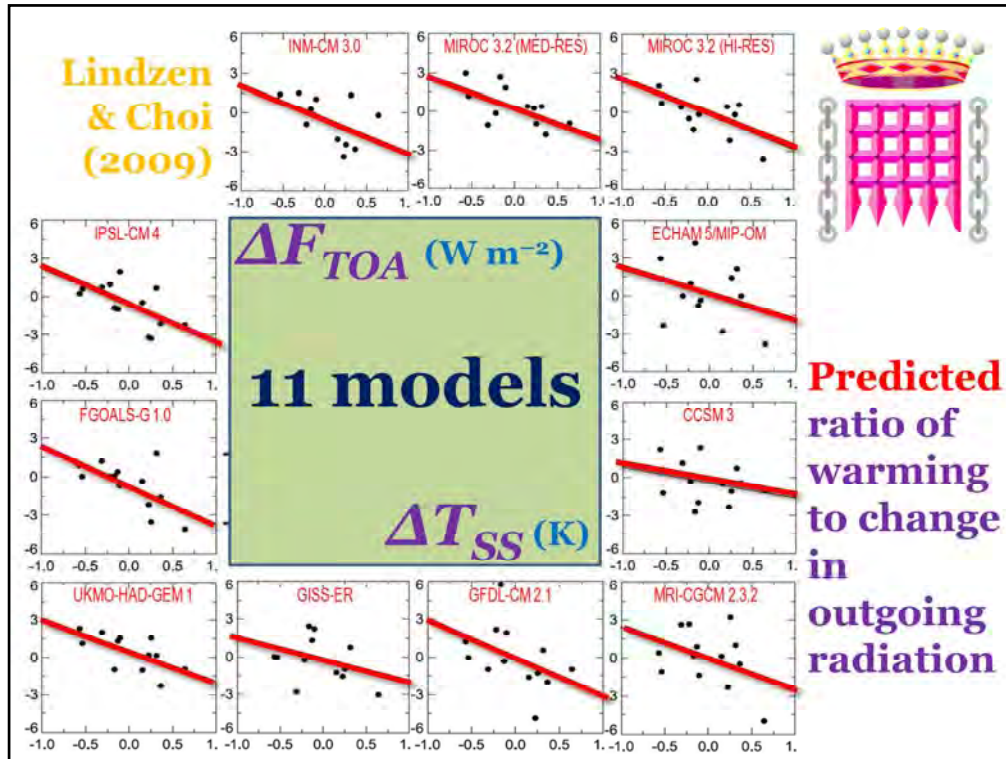
The Planck parameter, represented by the Greek letter *kappa* in this calculation, is the change in temperature per unit change in radiation. The UN's value for the Planck parameter is 0.313; however, the implication of Kiehl & Trenberth's chosen value for surface radiation is that at the Earth's surface the value of the Planck parameter is not 0.313 but just 0.185. That reduction in the value of the Planck parameter would reduce the "global warming" to be expected at CO2 doubling from the 3.3 K (6 F) imagined by the UN to just 1.1 K (2 F), fully two-thirds less. Clearly, we need a simpler and more direct way to determine climate sensitivity than trying to follow every sunbeam as it bounces its way through the atmosphere, off the ground and back out into space.



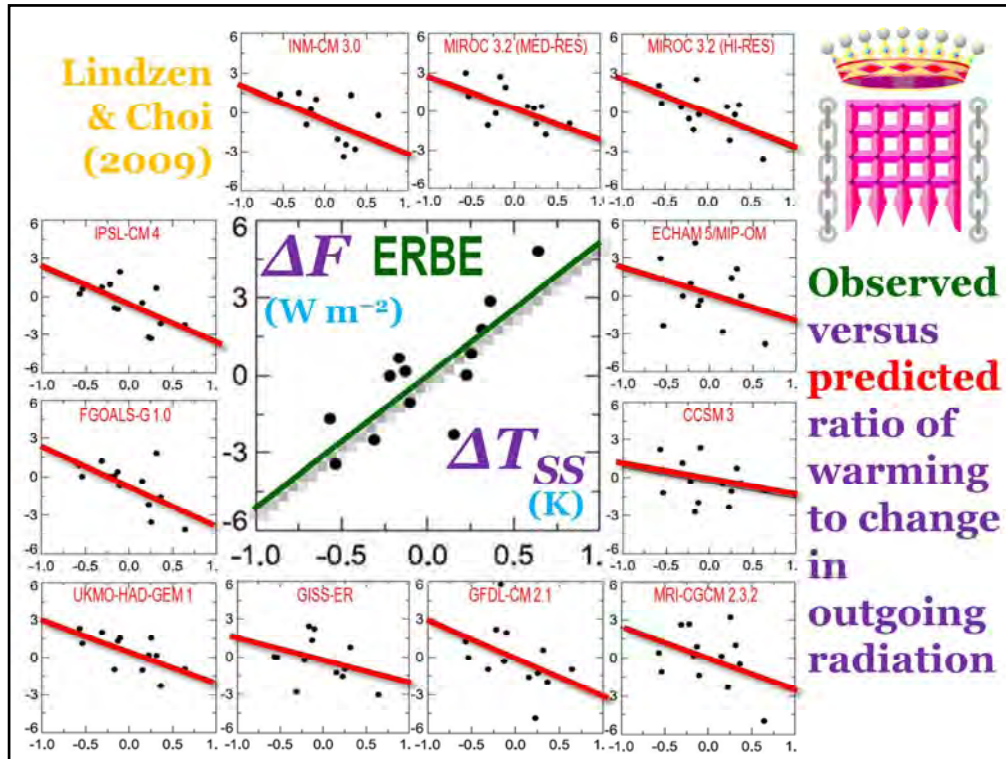
Error 7: The ratio of surface warming to the amount of radiation escaping from the Earth's surface to space is less than one-sixth of the ratio the UN predicts (Lindzen & Choi, 2009). This is the clincher that establishes the definitive answer to the vital question how much warming is likely to be caused by a given proportionate increase in the atmospheric concentration of CO₂. And this answer is derived not by complex and error-prone computer modeling but instead by direct measurement.



Here is a simple question. It is not a trick question. If the world were to warm, would radiation escaping from Earth to space increase, remain unchanged, or diminish?



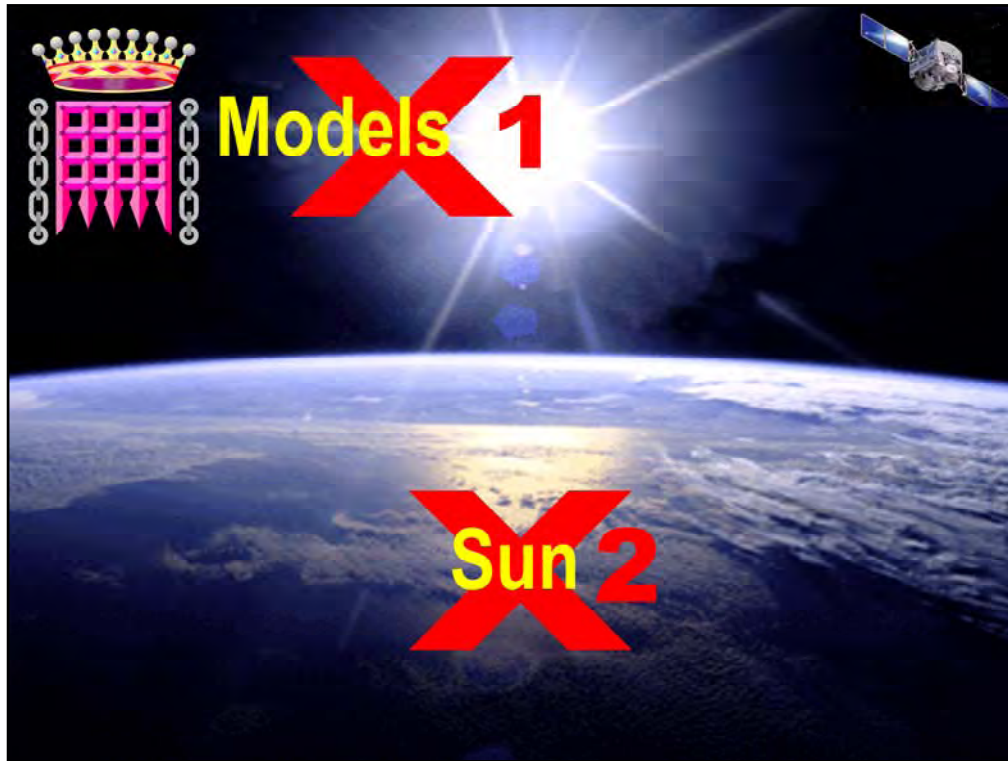
Here is the UN's answer, demonstrated by 11 distinct computer models. As temperature (on the horizontal or x axis) rises, outgoing radiation from the Earth is predicted to diminish, because greenhouse gases will get in its way and prevent it from escaping to space as easily as before. For every 1 K (2 F) of warming, some 3 Watts per square meter of radiant energy is predicted to be trapped within the climatosphere rather than escaping to space.



And here is the truth, measured by the Earth Radiation Budget Experiment Satellite, and correlated with changes in sea surface temperatures. As the sea surface warms by 1 K, some 4.5 Watts per square meter of additional outgoing radiation escapes to space. It is not, after all, trapped down here as the 11 UN models whose outputs are shown here believe. And it is the paper in which this discrepancy between models' prediction and observed reality was presented that will be the undoing of the official "high-climate-sensitivity" theory. Six or seven times as much outgoing radiation is escaping to space per unit change in sea surface temperature as the UN's models predict. This is a discrepancy of astonishing magnitude. But perhaps the most astonishing thing about this analysis is that no one had thought of performing it before it was carried out by Professor Richard Lindzen at the Massachusetts Institute of Technology. The observed-reality graph at the center of this diagram is as close to a direct measurement of climate sensitivity as it is possible to get. This is a brilliantly simple method. And, in any rational world, the only remaining question would be whether Professor Lindzen's results can be replicated by others. If these results are indeed confirmed, then that is the end of the climate debate. Instead of a 3.3 K (6 F) warming in response to a CO₂ doubling, we shall see just 0.5 K (less than 1 F). And that is all.



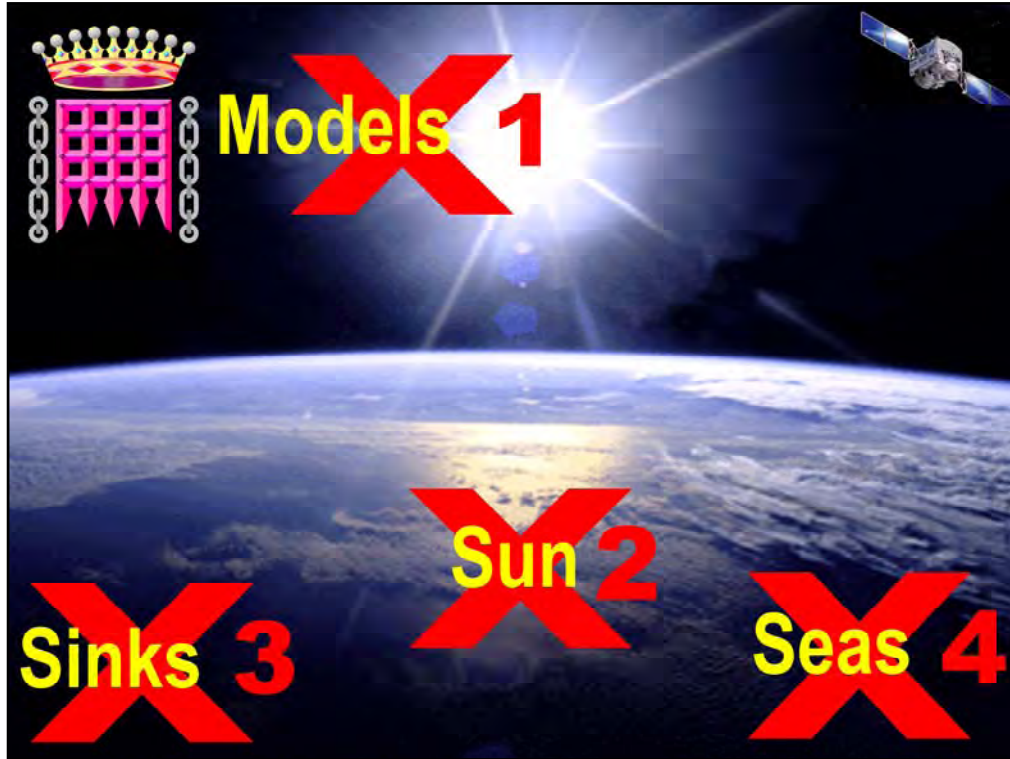
The models have been proven wrong time and time again – and fundamentally wrong, as the previous slide showed.



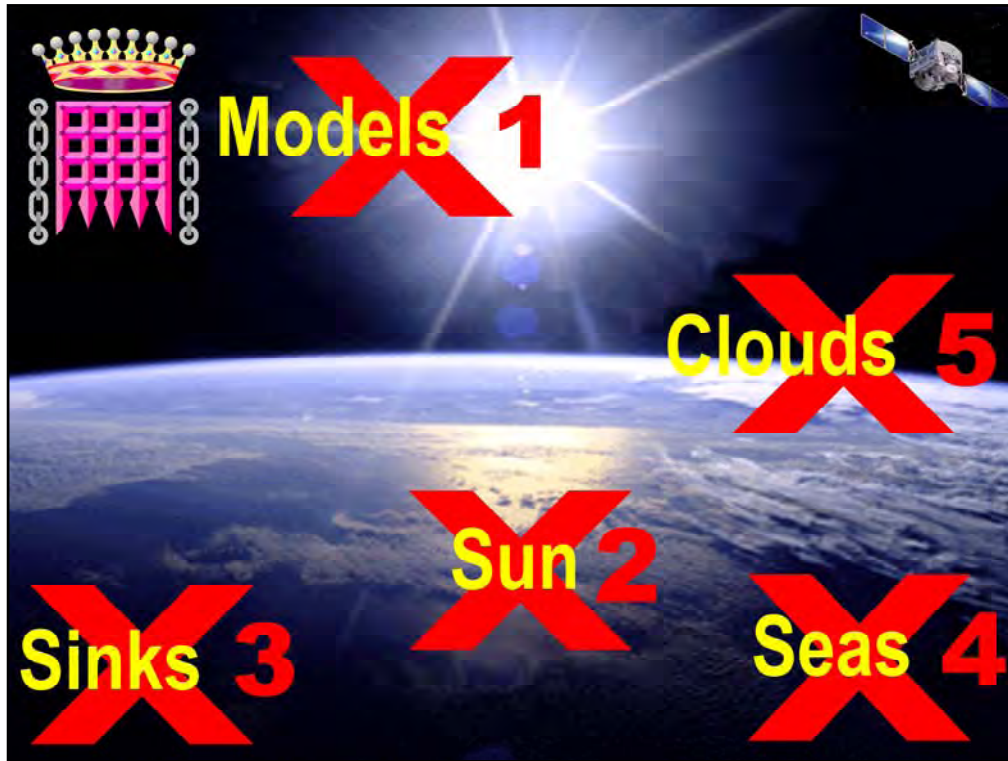
The Sun, moderated by ocean oscillations, is the chief cause of temperature fluctuations at the Earth's surface. CO2 has very little to do with it.



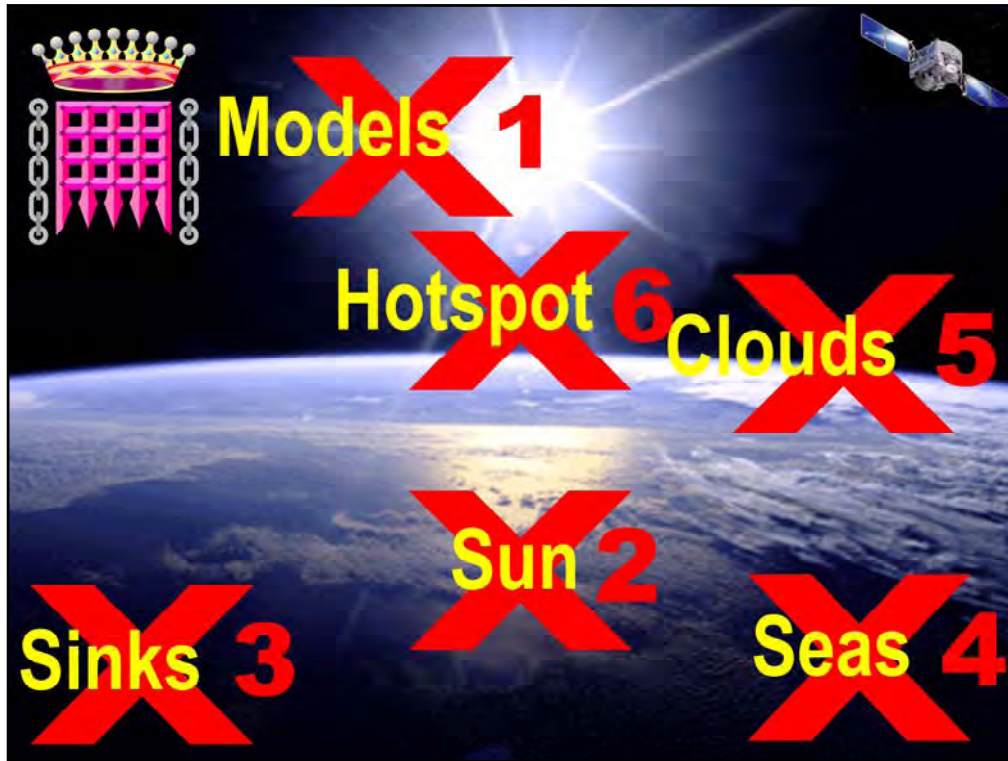
Carbon sinks (such as faster-growing trees and plants that take carbon dioxide out of the air via photosynthesis and emit oxygen in its place) are working just as well as they always did, according to a 2009 paper by Knorr *et al.*, and twice as well as the UN had predicted. So, even if human CO₂ emissions continue to grow unchecked, even if no steps whatsoever are taken to mitigate CO₂ output, the atmospheric concentration of CO₂ will grow by less than half as much this century as the UN has predicted.



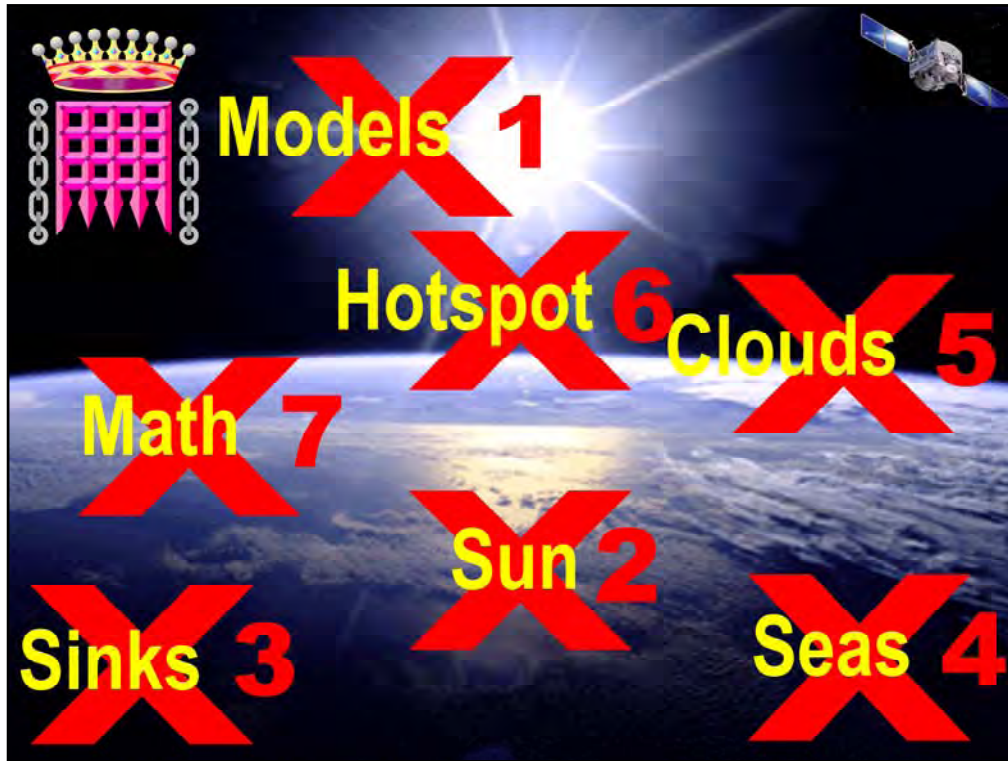
The oceans are cooling – and the official, high-climate-sensitivity theory predicts that they must warm. But they have not been warming for half a century, and the detailed and reliable measurements of the ARGO buoys over the past five years show that a little cooling has indeed taken place, not the warming predicted by the UN.



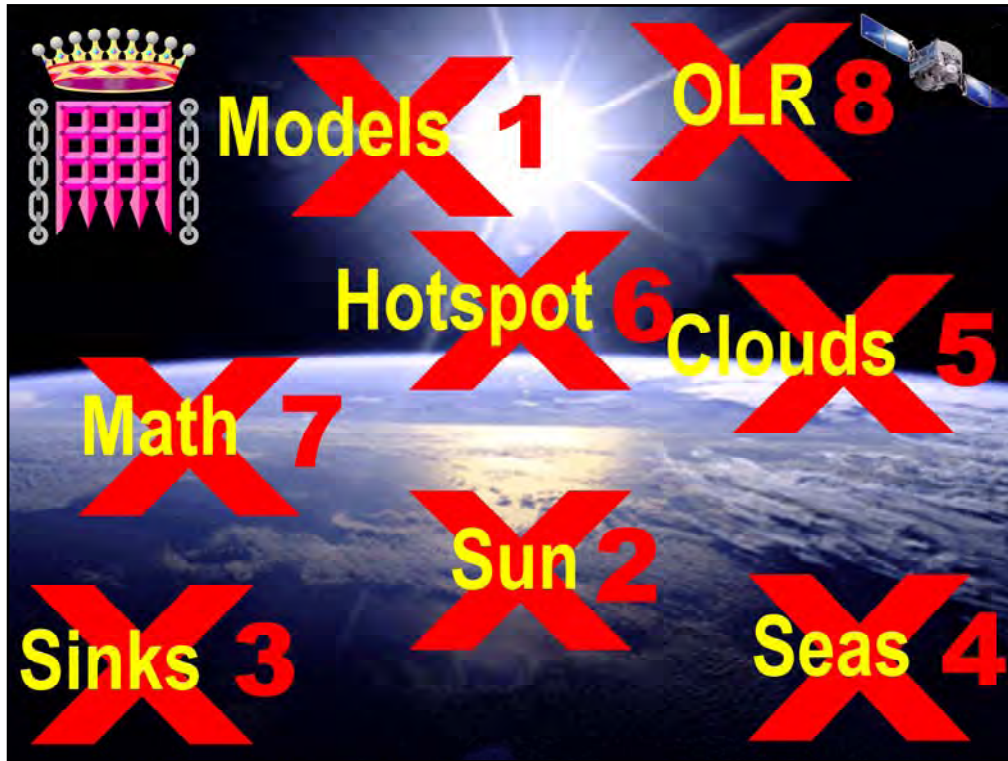
Cloud albedo feedback is strongly negative, not strongly positive. As the world warms (or, rather, *if* it warms), there will be more clouds, more sunlight will be reflected harmlessly back to space, and a significant compensatory cooling will occur as a result.



The upper troposphere is not warming at thrice the surface rate, though all of the UN's models are told to assume that it will. We now know why it is not warming as predicted. A paper in late 2009 by Paltridge *et al.* has established that, although the Clausius-Clapeyron relation mandates more water vapor in all parts of the space occupied by the atmosphere, subsidence drying (the movement of moisture downward to lower altitudes where the principal absorption bands of water vapor are already saturated) is preventing the predicted warming from occurring.



We have shown that the notion of high climate sensitivity – i.e. a substantial temperature increase in response to a near-infinitesimal anthropogenic alteration in the composition of the atmosphere – is manifestly disproportionate, and that the landmark paper on the Earth's radiation budget contains a value for surface radiation that implies climate sensitivity just one-third of the UN's value.



Professor Lindzen's direct comparison between changes in sea surface temperature and consequent changes in outgoing radiation escaping to space is the clincher on this series of papers, nearly all of them published after the UN's 2007 climate assessment, that demonstrate beyond reasonable doubt that the answer to the central question in the climate debate – how much warming will a doubling of CO₂ concentration cause – is “very little indeed”. The scare is over. And, unh, Houston, the official theory has a problem.



Let us summarize the errors we have examined:

Error 1: It is long proven that models cannot reliably predict the evolution of the complex, non-linear, chaotic climate in the very long term (i.e. more than a few weeks ahead) unless the initial state of the object is known to a precision that is in practice forever unattainable (Lorenz, 1963; Giorgi, 2005).

Error 2: Changes in solar radiance striking the ground, *not* changes in CO₂ concentration, fully explain recent global and regional temperature changes (Meehl *et al.*, 2009, Solanki *et al.*, 2005, Hathaway *et al.*, 2004, Usoskin *et al.*, 2003, IAU symposium 2004, Svensmark *et al.*, 2008, 2009).

Error 3: Natural “sinks” are removing carbon dioxide from the atmosphere so fast that, despite high *emissions*, its concentration is rising at less than half the rate predicted by the UN (IPCC, 2001).

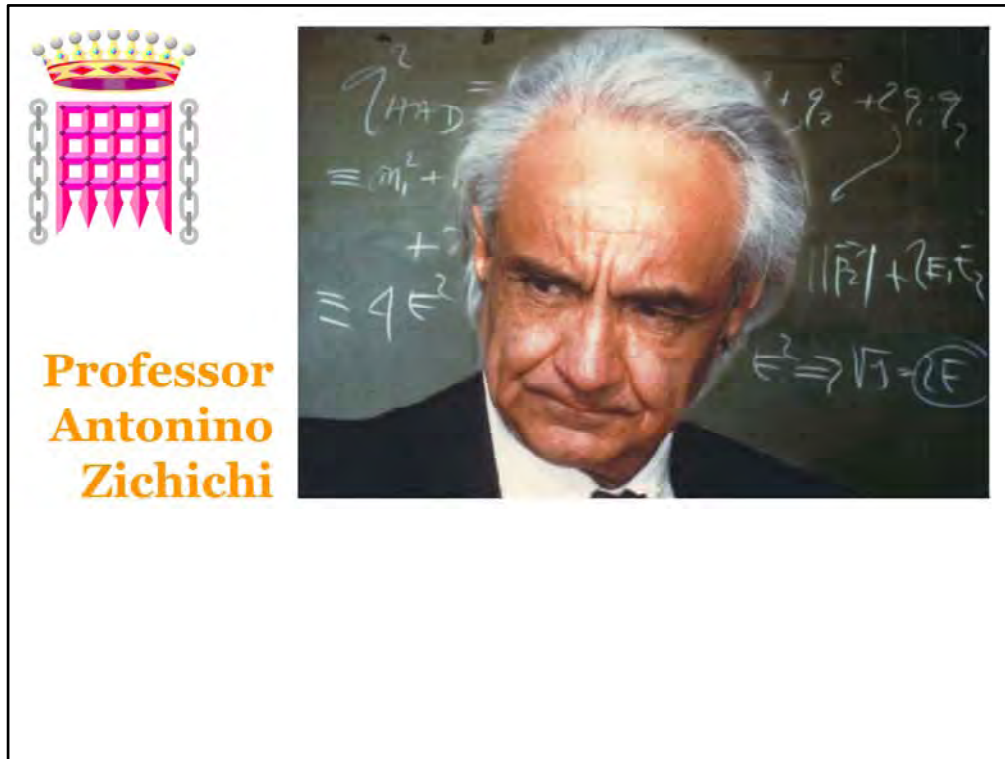
Error 4: The models predict that nine-tenths of all warming caused by anthropogenic greenhouse-gas emissions should accumulate in the upper 400 fathoms of the oceans, but if anything the oceans have been cooling since 2003, when the 3319 bathythermograph buoys of the ARGO project were first deployed (ARGO project, 2009).

Error 5: The UN says cloud-albedo feedback is strongly positive: however, it is strongly negative (Spencer *et al.* 2008, 2009).

Error 6: The UN predicts that the tropical upper troposphere will warm at twice the tropical surface rate, but in observed reality it does no such thing (Douglass *et al.*, 2008).

Error 7: The ratio of surface warming to the amount of radiation escaping from the Earth’s surface to space is less than one-sixth of the ratio the UN predicts (Lindzen & Choi, 2009).

Error 8: Removing the atmosphere and adding it back demonstrates that climate sensitivity is less than one-sixth of the UN’s predicted central estimate (Monckton, 2008; Monckton & Evans, 2009).



Let no one say that no serious scientist disagrees with the notion of catastrophic “global warming”. Professor Antonino Zichichi, the discoverer of antimatter, told the Vatican Conference on Climate Change in the spring of 2007 that “It is not possible to exclude the possibility that the observed phenomena may have natural causes. It may be that man has little or nothing to do with it.”



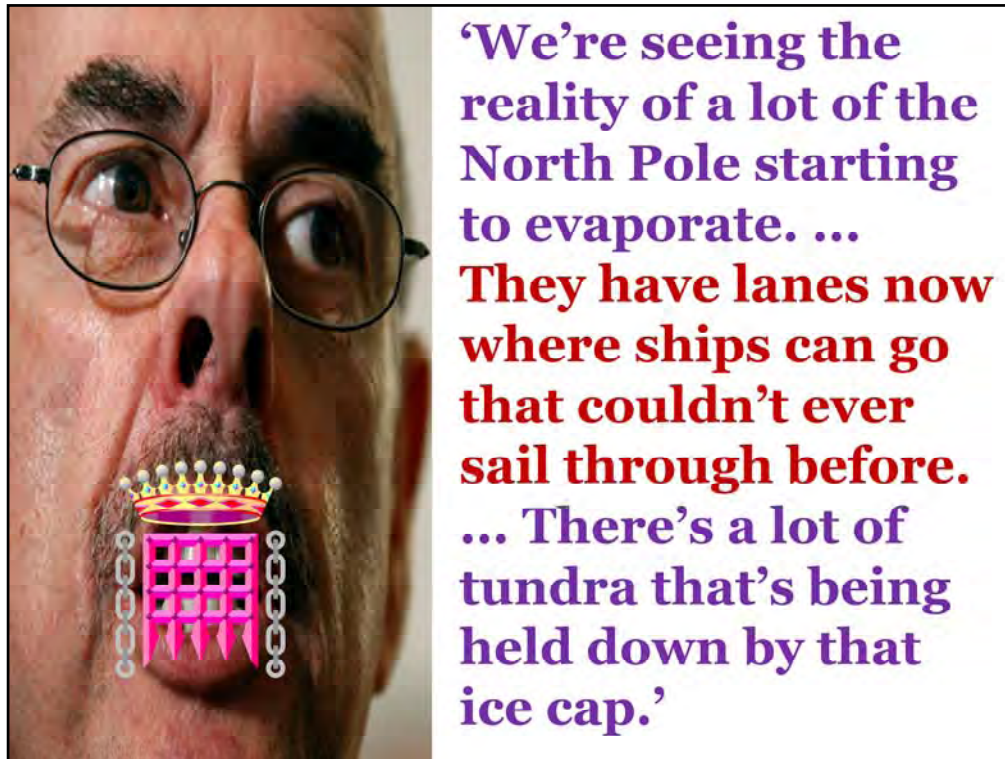
... And even the UN's climate panel admits that "Climate has always varied on all time-scales, so the observed changes may be natural." This statement, surprising though it may seem in the light of how the mainstream media report the climate issue, occurred in the 2001 assessment report of the climate panel.



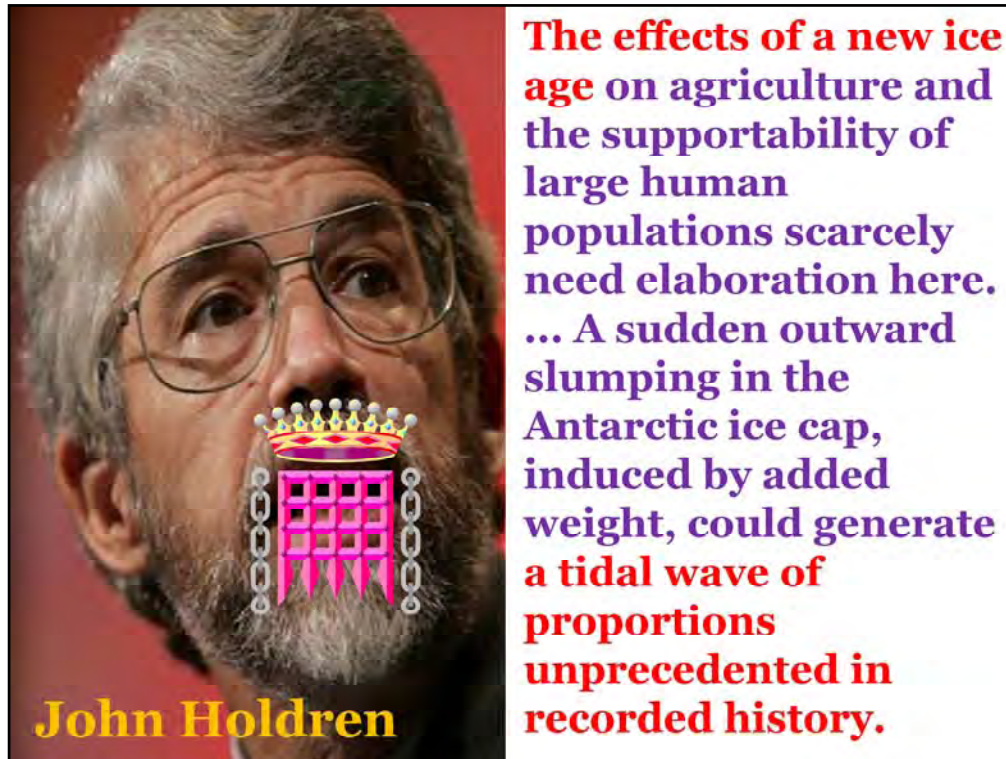
Notwithstanding the recent spate of papers in the scientific peer-reviewed literature demonstrating the falsity of the UN's central high-climate-sensitivity notion, the politicians have not yet gotten the point that the climate gravy-train is heading rapidly for the gulch.

... they
first
make
mad:

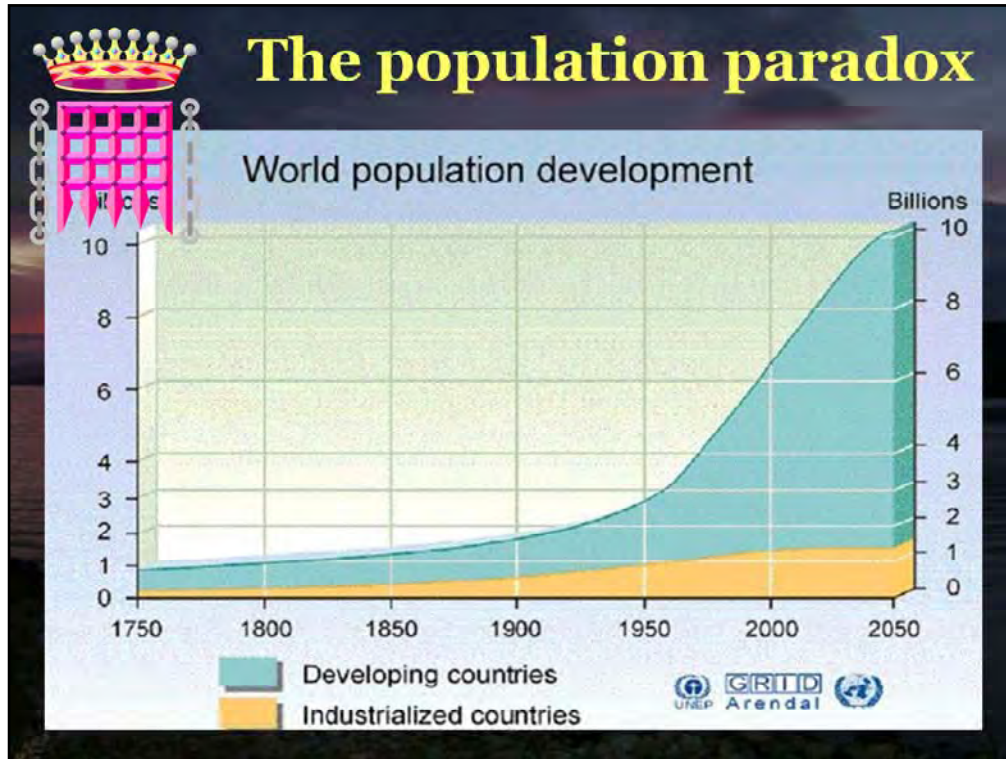




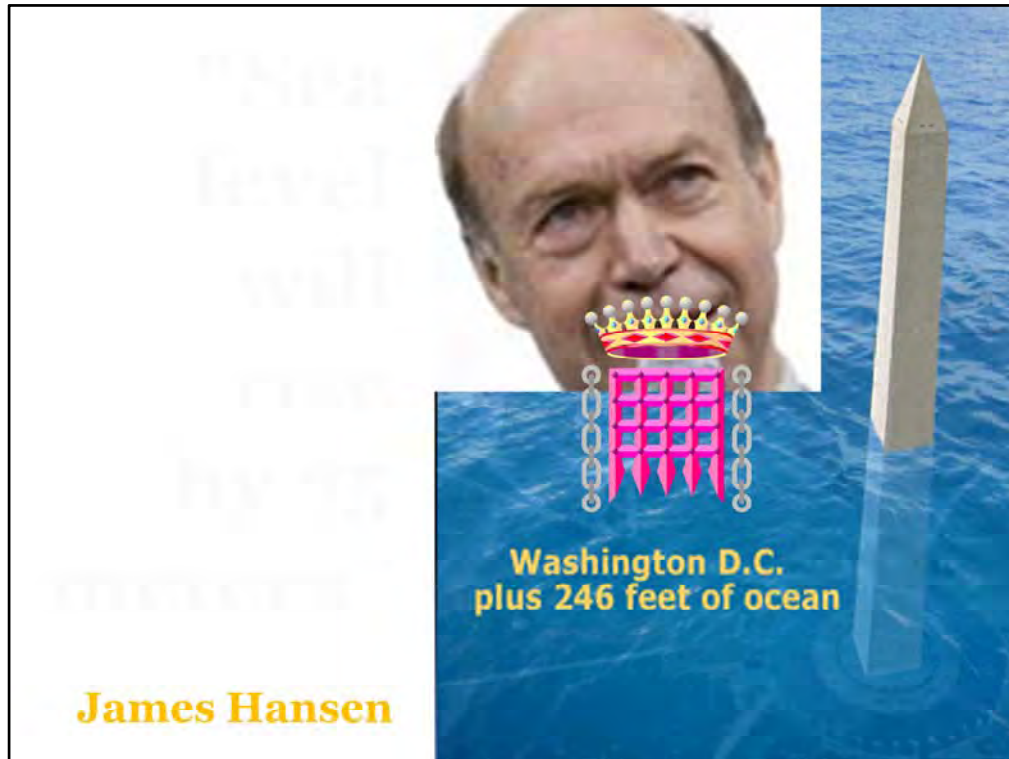
Representative Henry Waxman, the eponymous author of the Waxman/Markey climate Bill that would shut down five-sixths of the US economy in the next 40 years, thinks the Arctic ice-cap covers tundra. Hint: it is floating, so that even if it disappears altogether it will not raise sea level by as much as a millionth of an inch.



John Holdren, the Science Advisor to the leader of the once-free world, forecast an ice age 30 years ago, and said it would produce “a tidal wave of proportions unprecedented in recorded history”. Humankind, of course, was to blame for the coming ice age: therefore, Mr. Holdren suggested that population police endowed with global powers of intervention should prevent people from having children. Mr. Holdren is not a Fascist.



This slide reveals how disastrous it would be to increase world poverty (the ineluctable consequence of shutting down five-sixths of the economies of the West). Poorer populations breed faster. So, paradoxically, the madcap Waxman/Markey Bill, and others like it worldwide, would have the effect of increasing the world's population as everyone grew poorer, thereby increasing the global carbon footprint of humankind. By this stage, those who have followed this presentation will have appreciated that the world's "carbon footprint" is not a problem: but there is a nice irony in the fact that the modern-day Canutes who advocate universal impoverishment in the name of Saving The Planet would achieve the opposite of their central objective, and would actually increase the anthropogenic output of carbon dioxide.



James Hansen, a politicized scientist at NASA, is tolerated there because the scare he helps to promote with political statements such as “coal trains are death trains”, or “sea level is about to rise by 75 meters”, has led to a lavish increase in NASA’s funding to make the (non-existent) climate scare go away.



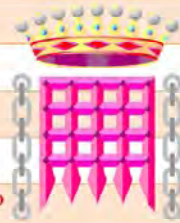
Arnold Schwarzenegger, following Ronald Reagan in his progress from B-movie actor to politician, tells us “The Debate Is Over. The Science Is Certain. Now We Must Act.” Yes, we must – to end all spending on climate-related boondoggles, and deploy the funds instead to address the world’s real environmental problems.



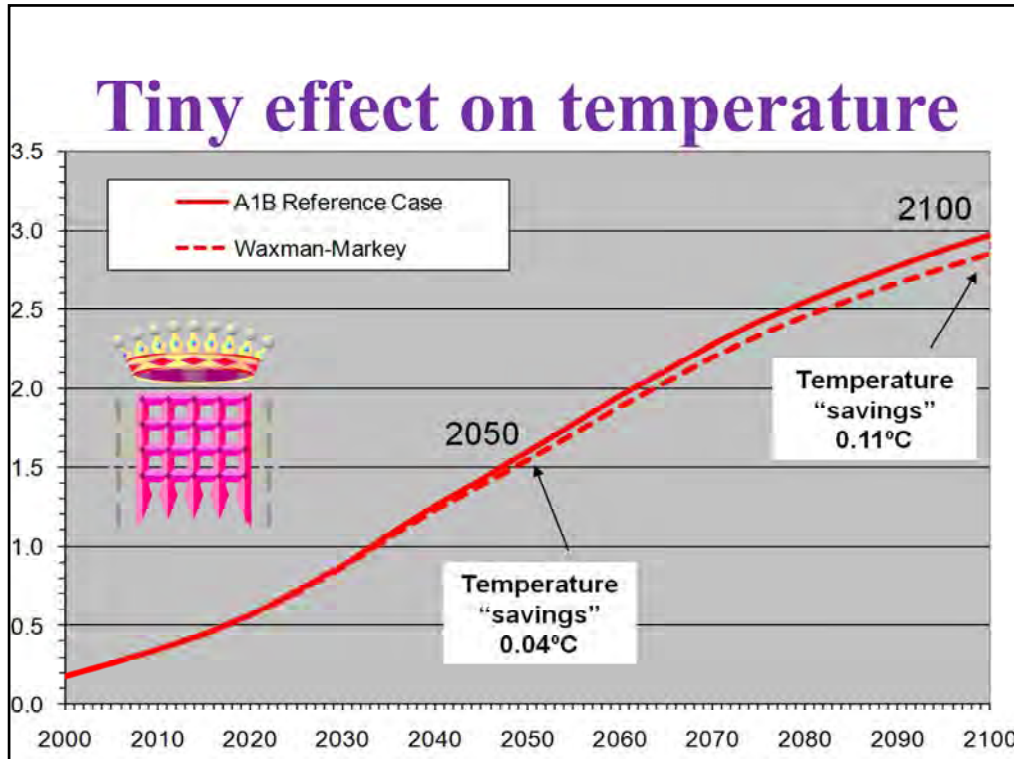
It's politics, not science.



So much for the science. So much for the politics. Now for the economics. Bottom line: any action to mitigate “global warming” will be more cost-effective than any other act of government, anywhere, ever. And with the ever-increasing cost of an ever-more-obviously pointless policy of wholesale intervention and regulation goes the death of the freedom and prosperity that the West has long been fortunate to take for granted.

Waxman/Markey Climate Bill	The facts and figures	
CO2 concentration in 2100 [A2]	836 ppmv	
– CO2 concentration in 2000	368 ppmv	
= 21st-century CO2 increase	468 ppmv	
/ 21st-century warming [A2]	3.4 C°	
= Concentration increase per C°	140 ppmv/C°	
x CO2 emissions per ppmv	14,150 million tons CO2	
= Emissions cuts for 1 C° cooling	2 trillion tons CO2	
/ WaxKey emissions cuts/year	5 billion tons CO2/year	
= Years to prevent 1 C° warming	400 years	
x 100 years' warming [A2]	3.4 C°	
= Years to stop 100 years' warming	1360 years	
x \$180 billion/year WaxKey cost	\$250 trillion	

Here is the cost of the WaxKey Bill. All you need to know is that preventing the 3.4 C of warming that the UN predicts for this century would take 1360 years and would cost at least £250 trillion – and six times more than that if the UN's central estimate of climate sensitivity is, as we have demonstrated it is, six times greater than it should be.



Here is how little a difference that £250 trillion will make to temperature over the next 100 years.



And then, of course, there are the wackos with their geoengineering solutions. How about painting all of the world's pavements and rooftops white to increase the Earth's albedo and cool the planet? Well, one problem is that the UN thinks that the cloud-albedo effect would actually cause warming, not cooling. But let's ignore that and assume, just for the sake of argument, that painting every roof and pavement and road surface white was possible. Here is how it would work out.

The Chu-Chu Plan: painting the Earth white		Facts & figures
	Earth's surface area	510 million km²
–	75% covered in water or ice	383 million km²
=	25% ice-free land surface	127 million km²
x	2% of land surface built or paved	2540 billion m²
x	2 coats of paint every 3 years for 100 years	168 trillion m²
/	10 metres per liter	17 trillion litres
x	\$2 per liter	\$34 trillion
+	Labour at \$10/hour	\$17 trillion
=	TOTAL COST OF THE CHU-CHU PLAN	\$51 trillion
	Percentage of Earth's surface built or paved	0.5% of surface
–	40% of the atmosphere covered in clouds	0.2% of surface
–	10% of Earth's surface snow-covered	0.05% of surface
–	10% because most buildings not in tropics	0.05% of surface
=	Percentage change in Earth's albedo	0.2% of surface
/	2 because 50% sunlight is long-wave already	0.1% of surface
	Today's albedo: $[342(1 - 0.30)/0.96/\sigma]^{1/4}$	257.5 C°
–	Chu-Chu's albedo: $[342(1 - 0.301)/.96/\sigma]^{1/4}$	257.4 C°
=	Cooling effect of Chu-Chu plan	0.1 C° = 0.2 F°

The Chu-Chu's Grand Plan would cost a modest \$51 trillion. And it would reduce global temperature by – wait for it – 0.1 C (0.2 F). Enough said.



Global Islamic terrorism
Chinese neo-militarism
Russian neo-imperialism
Mass economic migration
Security of energy & water supply
Environmental degradation
Natural resource depletion
Bad Third-world government
Drugs and people trafficking
HIV, malaria, TB, MRSA, *C.Diff.*
Bureaucratic centralism vs. democracy
Nationalization of capital

There are worse crises than the climate – which is not a crisis at all. The correct policy response to a non-problem is to have the courage to do nothing. Then we can concentrate our energies and our cash on real problems.



Canada and the United States have stood with Britain in the defence of freedom often in the past, and their gallant forces stand shoulder to shoulder with ours to this day. As this presentation is in preparation, the UN is preparing for a summit conference of the states parties to the Framework Convention on the Non-Problem of “Global Warming” in Copenhagen, Denmark, at which – if those who have long planned for this day get their way – a World Government will be established, and each of the States Parties will agree to make its constitution, its freedoms, its democracy subject to the New and Needless World Order. The World Government will not be called that, of course, except by Al Gore and a few other hotheads who have let the cat out of the bag. It will at first merely appear to be a technocratic committee, with powers only of monitoring and advice. But, unless we now stand and fight against this nonsense and for the freedoms that our forefathers won for themselves at the point of the sword, the blanket of the dark will again descend upon the world, and we shall sleep-walk together from the Age of Enlightenment and Reason into a new Dark Age. I hope that this presentation will play its small part in preventing any such dismal outcome. And, as your leaders and ours consider what to do at Copenhagen, and whether to endorse the end of national independence, liberty, and democracy in the name of a furtive and ingenious chimera, I recite to you the words that Winston Churchill spoke to your continent at the darkest hour before the dawn in the Second World War – words written by one of your continent’s greatest poets, Longfellow:

Sail on, o Ship of State,
Sail on, o Union strong and great:
Humanity, with all its fears,
With all the hopes of future years,
Is hanging breathless on thy fate.



Any questions?