

Some Questions about Man-made Climate Change: where is the DUE DILIGENCE ?

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A Layman's View

On a personal note: I well recall voicing the opinion in a well-researched paper more than a decade ago that information about pollution levels in London was being exaggerated by green activists. That published opinion elicited threats of personal violence and death. Green "Believers", although many at heart are well-meaning, are not necessarily nice people and are certainly rarely tolerant and open to debate.

When I first saw the "hockey stick" I was convinced that there was a real problem that should be addressed. I began some exploration starting with the Professor David MacKay's book Sustainable energy without the hot air². This book, using as he says "numbers not adjectives", debunks all the common assertions about the efficacy of renewable energy. Although he believes that CO₂ is contributing significantly to "Global Warming / Climate Change", he has at long last produced a great deal of quantified common sense on the subject of the efficacy of renewable energy. This lead me on to a wider exploration of the question of Man-made Climate Change / Anthropogenic Global Warming / Catastrophic Climate Change, etc.

As my exploration has progressed my views have become increasingly sceptical about the promotion of probably dubious science, the evasion of proper "scientific methods" and the political agendas that have invested so much into confirming the assertion. So from a credulous Believer I have become a Sceptic and thus a "Denier".

This commentary contains several hopefully relevant web references. Unsurprisingly they often come from sceptical sources, so many people of the Warmist persuasion would reject them outright.

In the 1970's there was genuine concern that the world was moving into a new ice age³. But "Global Warming" and "Climate Change" have been on the world's agenda for the last twenty to thirty years.

Over the bulk of that period there has grown an established and very forceful view that the science of "Man-made Global Warming" was entirely "settled" and that its cause was solely man-made Carbon Dioxide (CO₂) emissions from the continuing and increasing use of fossil fuels. The view has also been aggressively promoted that the results could only ever be Catastrophically detrimental for mankind's existence on earth. Contrary opinions are still considered by Man-made Global Warming believers ("Warmists") to be heretical or even traitorous.

Anyone expressing sceptical views has been characterised by the "Global Warming" establishment as DENIERS, as evil as HOLOCAUST DENIERS. Many authoritative voices have already met with extreme opprobrium as a result, (the renowned and formerly popular botanist Prof David Bellamy is but one example⁴).

A firm view had been established that the world as a whole has to do something to stop causing the damage very urgently to save itself. This view was and continues to be promoted worldwide by the most powerful forces of national and international politics, including governments, the United Nations, and many highly respected scientific institutions, such as the British Royal Society. It is now taught as gospel truth in schools worldwide.

The whole scene was changed radically on 19/11/2009 by the publication on the Internet of some 60 Megabytes of assorted information, collectively known as "Climategate"⁵.

¹ <http://www.cambridgenetwork.co.uk/directory/indprofile/default.aspx?objid=64455>

² <http://www.withouthotair.com/>

³ <http://www.time.com/time/magazine/article/0,9171,944914-2,00.html>

⁴ http://www.bbc.co.uk/wear/content/articles/2007/03/27/climate_countdown_david_bellamy_feature.shtml

⁵ <http://www.climate-gate.org/>

Although the disclosure of this information has been presented by “Warmist Believers”, as a malicious hack, the release seems more likely to have been made by an inside whistleblower, who made the release with the following statement:

“We feel that climate science is, in the current situation, too important to be kept under wraps. We hereby release a random selection of correspondence, code, and documents. Hopefully it will give some insight into the science and the people behind it.”

The information released contains some 1000+ emails between all the leading members of the Global Warming academic and scientific publication community, computer code and other data from the Climate Research Centre at East Anglia University.

There is little likelihood that the information is not genuine, there would have been just too much to do to have created the huge mass of interlinked data. The computer code is particularly revealing: not only is it amateurish and poorly written but also contains many comments detailing the unwarranted data adjustments, (fudge factors), that are integral within the data and the software and clearly shows the frustration of the software engineers at the inadequacies of the data quality and the interpretative code.

Regrettably the released information appears to show consistent and coordinated fraud, possible criminal acts in the evasion of Freedom of Information requests, the deletion of original source data and consistent misrepresentation achieved by the collusion between all the key academic individuals.

In direct contradiction of the normal tenets of “scientific method”, where normally all information is clearly published and proudly displayed so that other colleagues can investigate, replicate and reinforce the published findings, is particularly clear that the whole Warmist academic community has been actively refusing to release data associated with their published papers in the literature for comment and affirmation.

For example as Professor Phil Jones clearly stated in response to one genuine enquiry ⁶:

“We have 25 or so years invested in the work. Why should I make the data available to you, when your aim is to try and find something wrong with it.”

In addition they have been actively suppressing any opposing views that might have been released in the peer-reviewed literature. The “Warmist” community has thus created a cyclical argument where they were able to claim that because any sceptical views were refused publication in the peer-reviewed literature they were therefore not valid.

Such an attitude can hardly be considered to conform to the normal concept of rigorous “Scientific Method”. This is why the attitude of such august scientific bodies as the UK Royal society has been so disappointing and depressing ⁷, although they have now moderated their stand somewhat. Had Climate Science been some insignificant backwater of scientific endeavor this would not really matter, but these are the foundations of a political attempt to change the way of life of the whole world.

The problem is that the group of people intimately involved with the Climategate e-mails provide the scientific stance of the UN IPCC, (United Nations Intergovernmental Panel on Climate Change): the organisation that has been set up to drive the Global Policy of the Man-made Global Warming / Climate Change movement.

The IPCC is not intended to investigate the mechanisms of Climate Change nor to question whether there is such a thing as Man-made Climate Change caused by CO₂ emissions. Instead it is solely tasked with the promotion and presentation of the Man-made Climate Change ⁸ assertion, although unproven, as an accepted and non-contentious fact for world’s politicians and policy makers.

⁶ <http://climateaudit.org/2005/03/05/top-eleven-reasons-for-withholding-data-or-code/>

⁷ <http://www.thegwpf.org/ipcc-news/1617-royal-society-bows-to-climate-change-sceptics.html>

⁸ <http://sppiblog.org/news/ipcc-studies-and-reports-have-nothing-to-do-with-climate-change#more-2688>

Sceptics had always suspected these attitudes in the past but it is only since the release of the “Climategate” information on the internet that the evidence of the continuous unscientific activities over many years can be seen clearly.

Professor Phil Jones the originator of many of the emails has now stated that:

*“the record keeping in his department is far from adequate
that the base data on which his assertions have been based has been lost or destroyed
that the Medieval Warm Period, the absence of which has been a major historical plank in
the Global Warming argument probably did exist.”*

His department is one of the few main sources of world climate data used to justify the Man-made Global Warming assertion and to support the UN Intergovernmental Panel on Climate Change, (IPCC). In addition the information quality at the second major source of world temperature data NASA GISS and the third source NOAA have also all been called into question.

But even so, much of the scientific and political establishment is still irrevocably committed to the assertion of Man-made Global Warming for its financial and professional existence. So much so that the admission that the Man-made Global Warming hypothesis might be in error or open to question is intolerable to them.

There would just be too much egg on too many faces and too much loss of the very substantial grant funding that has continued to pour in from Governments to support the Man-made Global Warming assertion⁹. It has been estimated that at least \$ 30 billion has been invested by various western governments and NGOs in supporting and reinforcing the Man-made Global Warming / Climate Change assertion over the past 20 years.

As an example, to quote from one researcher’s personal anecdote¹⁰:

*“Last spring when I was shopping around for a new source of funding, after having my funding slashed to zero 15 days after going public with a finding about natural climate variations, I kept running into grant funding application instructions of the following variety:
Successful candidates will:*

- 1) Demonstrate AGW.*
- 2) Demonstrate the catastrophic consequences of AGW.*
- 3) Explore policy implications stemming from 1 & 2.”*

So, despite these revelations and the many clear fallacies, the Man-made Global Warming movement still has legs. It is not going to go away quietly. Its political appeal and the financial consequences for the academics, financiers and politicians involved are just too powerful.

It is as if political and academic establishments are gripped by a new religious fervour and by the consequent “NOBLE CAUSE CORRUPTION”, where any misrepresentation is valid in the Cause and where any opposition however cogent or well qualified is routinely denigrated and publically ridiculed.

Probably the most egregious pieces of publicity ever produced in the Man-made Global Warming cause so far is this short film from the 10:10 campaign showing doubting schoolchildren being blown up and having their entrails spread over their classmates because they may have been less than enthusiastic about the cause¹¹.

⁹ <http://www.timesonline.co.uk/tol/news/environment/article6951029.ece>

¹⁰ <http://wattsupwiththat.com/2009/12/11/perhaps-a-conspiracy-is-unnecessary-where-a-carrot-will-suffice/>

¹¹ <http://www.disinfo.com/2010/10/murdering-people-who-disagree-with-you/>



At least the world now knows what they are really thinking.

Surely this type of thinking should not be the foundation of some of the most radical and far reaching policy proposals that have ever been put forward for changing the manner in which Mankind survives on this Earth.

It is not longer adequate for the Warmist Believers to simply state that there is an established “scientific consensus”, when clearly there was not one before and there certainly is not one now after these recent publications on the internet.

Gradually some of the more courageous of the scientific establishment are coming out of the closet and beginning to question this quasi-religious faith in Man-made Global Warming¹².

Thus there is a real need to carry out exhaustive DUE DILIGENCE in order to revisit all the “scientific” assumptions that have been over the past 20-30 years used as the basis of the Catastrophic Man-made Global Warming (CAGW) assertion. As a result all or any policy recommendations of the IPCC, (the United Nations Intergovernmental Panel on Climate Change) are now entirely questionable.

But because of the amazing bandwagon that has been set rolling, the world continues to be denied, (with a religious fervour), that examination by a dogma that admits no questioning, and which is therefore certainly very bad science.

When one considers the far reaching, anti-democratic, costly and destructive consequences of the international plans being promulgated by the Warmist establishment, such as were proposed but not enacted in Copenhagen in December 2009, it should not be unreasonable to reflect on the current position, to ask some questions and to query the assumptions on which Man-made Global Warming Hypothesis is based.

Fortunately there was no real agreement in Copenhagen in December 2009, so perhaps now there may be time for worthwhile reflection.

The world community as a whole should expect that the question of the best available scientific truth in the assertion of Man-made Global Warming is openly discussed and fully examined before any damaging commitments are made to avoid what is likely to be a either a non-problem or at worst OR best an unavoidable problem.

It now seems that the Indian and Chinese authorities doubt the credibility of the IPCC and its message of Man-made Global Warming. These two nations represent 36% of the world population and China is now the largest single emitter of CO₂. The rest of the world should be equally sceptical.

Had any world leader come away from Copenhagen having made irrevocable and binding commitments of any sort on behalf of their countries and their peoples, they are being now shown to have been taken for fools for not having not taken the necessary steps to ensure that the scientific DUE DILIGENCE into the Man-made Global Warming assertions is comprehensive.

¹² <http://www.scientificamerican.com/article.cfm?id=climate-heretic>

Worse than that the result that was proposed at Copenhagen would have resulted in a huge undemocratic, financial burden on the western world and to set up a very lucrative carbon trading market, selling / taxing the air we breath, (this is almost certainly why the assertion is favoured by the financial institutions and that ball may have been started rolling in the days of Enron).

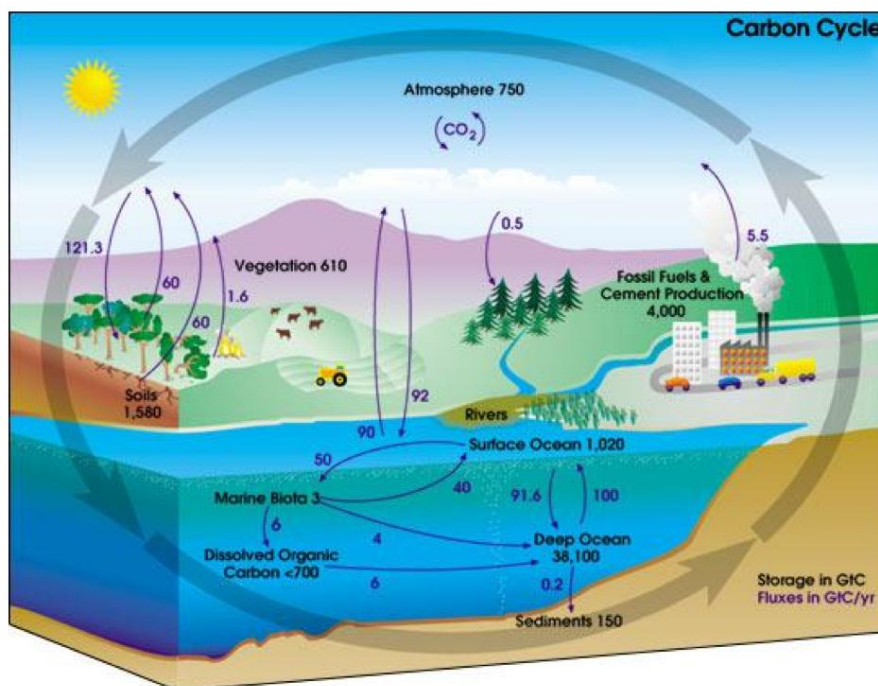
The traded values involved were anticipated to be measured in many \$ trillions. But since the failure to pass “Cap and Trade” in the USA, it now seems that the Chicago Carbon Exchange (CCX) and the European Carbon Exchange (ECX) are now dismembering themselves. The nominal Carbon priced has fallen from \$7 / tonne to \$0.10 / tonne since 2008 ¹³.

Following the “Climategate” disclosures it has become apparent that all the sources of temperature data used by the IPCC have had unwarranted adjustments, (always in favour of showing greater Global Warming). These actions have already been exposed in Russia, Australia, New Zealand, the USA government organisations such as NASA GISS, as well of course as the in the UK, both from the East Anglia University Climate Research Unit and the UK government Meteorological Office. So all the temperature sources and basis of the models used to underpin IPCC policies should now be rigorously and independently re-audited.

Man-made CO₂ emissions are a still a very small part, of the overall transport of CO₂ that occurs within the natural carbon cycle. A level has apparently been maintained in balance since pre-industrial times at an historically low level of 280 parts / million, (plants are stressed and start to die at less than 200 parts / million). More recently even this pre-industrial low level is also being called into question.

Burning fossil fuels is probably adding some CO₂ to the world’s atmosphere. Even so Mankind’s contributions to the overall levels of CO₂ are still very small indeed. The bulk of current increases in base levels of CO₂ are probably due to the release of CO₂ from marginally warmer oceans and the more active biosphere fed by slightly increased CO₂ over the last 200 years. But CO₂ from all sources is only responsible for about 3.51% of the greenhouse effect.

Of the overall CO₂ burden in the atmosphere only 3 – 7 % of the CO₂ is from man-made sources, burning fossil fuels, cement manufacture, etc. So it would appear that man-made CO₂ influence on temperatures is (3% : 7% of 3.51% = 0.105% : 0.245%).



The carbon cycle.

¹³ <http://www.reuters.com/article/idUSLDE6791W120100811>

As the greenhouse effect achieves an overall warming of $\sim 33^{\circ}\text{C}$, the man-made component achieves $\sim 0.035^{\circ}\text{C} : 0.087^{\circ}\text{C}$, a absolutely undetectable variation when compared with the normal daily temperature variations at any particular location of some 20°C and variations of up to 50°C annually.

In any event the man-made element in the change in CO_2 levels is probably irrelevant or at worst marginal to our changing climate. This is particularly so as any CO_2 increase further fertilises all plant life and is substantially resorbed within the biosphere. All plants and trees are already growing better and requiring less water to survive in this marginally richer CO_2 atmospheric environment. The starting point at the nominal pre-industrial level of 280 parts / million was close to being so low that plants were stressed and at risk.

The “Warmist Believers” only ever emphasise the catastrophe that awaits the world in the future as a result of Man-made Global warming. But the obverse is likely to be true. Increased levels of CO_2 and a rather warmer climate within natural limits will bring real benefits to mankind.

It is as if entire political establishments, (particularly, the US Environmental Protection Agency EPA, with the support of the US Supreme Court, who have just recently declared that CO_2 is a dangerous pollutant under the Clean Air Act), and much of the scientific establishment, and all Green activists have all collectively forgotten all their elementary school biology about photosynthesis and the carbon cycle.

Via plants, Carbon dioxide (CO_2) a trace gas in the atmosphere, that all animals (including man) exhale + sunlight + water (H_2O) creates and maintains the very Oxygen (O_2) we all need to breath and simultaneously creates carbohydrates, and thus all other organic compounds. That is the real stuff of life. Rile against that and you negate the ability of all the world's biosphere to exist on planet earth.

As a result of this failure to appreciate the elementary biology, the world is being forced to indulge in a massive guilt trip with endless predictions of impending global catastrophes, as have been promoted worldwide by Al Gore in his award winning film, “An Inconvenient Truth”.

Instead it is likely that current global warming is probably beneficial to Mankind, is within normal limits or sadly may be not now even be occurring at all. The probability is that any current global warming is not man-made and in any case it could be not be influenced by any remedial action taken by mankind.

That prospect should be greeted **with unmitigated joy**.

If it is so:

- concern over CO_2 as a man-made pollutant can be entirely discounted.
- it is not necessary to destroy the western world's economy to no purpose.
- if warming were happening it would lead to a more benign and healthy climate for mankind.
- any extra CO_2 is already increasing the fertility of all plant life on the planet.
- if it is occurring at all, a warmer climate within natural variation would provide a future of greater opportunity and prosperity for human development. This has frequently been well proven in the past and would now be especially so for the benefit of the third world.

The only downside is that the instincts of George Bush, Fox News and the Tea Party Movement could well be proven right.

As global temperatures have remained steady or are showing cooling¹⁴ over the last ten years, it would seem that the world should fear the real and detrimental effects of global cooling¹⁵ rather than being hysterical about limited or non-existent warming¹⁶.

¹⁴ <http://www.spectator.co.uk/melaniephillips/3436241/the-inescapable-apocalypse-has-been-seriously-underestimated.shtml>

¹⁵ http://www.iceagenow.com/Triple_Crown_of_global_cooling.htm

¹⁶ http://www.iceagenow.com/New_Little_Ice_Age_to_Begin_in_2014.htm

As Bjorn Lomborg, (the Sceptical Environmentalist, now much vilified by his previous Green colleagues), says this expenditure and disruption of the world's economy intended to control global temperature by the means of reducing CO₂ emissions could only ever have had a marginal effect in the much longer-term, if at any all. Any such resources would be much better spent on more immediate and worthwhile priorities to the benefit of all mankind.

It remains absolutely clear that our planet is vastly damaged by many human activities such as:

- environmental pollution.
- over fishing.
- forest clearance.
- industrial farming.
- farming for bio-fuels ¹⁷.
- and other habitat destruction.

We should indeed be strenuously finding ways to improve these situations. But the unwarranted concentration on reducing CO₂ emissions is deflecting even well-meaning green activists from these more immediate and worthwhile objectives. There are many more investments that should be prioritised for the benefit of mankind. This is especially so in the third world including:

- controlling malaria.
- clean water.
- stopping deforestation
- AIDS prevention, etc.

At the same time, this is absolutely not to say that the world should not be seeking more efficient ways of generating its energy, conserving its energy use and stop directly damaging its environment.

There is a real need to wean the world off the continued expenditure of fossil fuels on the grounds of:

- security of supply.
- their increasing scarcity.
- their rising costs.
- using them as the future feedstock for industry rather than simply burning them.

As an element of the essential DUE DILIGENCE, there are many questions about the Man-made Global Warming assertion that need to be fully answered in an entirely un-biased manner in advance of any commitment to changes in policy. The list is summarised below:

Amongst others they include the following:

- Is "Climate Change" the same as "Global Warming"? - YES and NO
- Is Climate Change happening? - YES
- Is the "Greenhouse Effect" important to our planet? - YES VITAL
- Are published data on Global Temperature accurate and can they be trusted? - NO
- Has the world been hotter than at present during mankind's period of civilisation? - YES
- Would some warming within natural limits be altogether bad? - NO
- Is CO₂ a pollutant? - ABSOLUTELY NOT
- Is current Global Warming mainly caused by Man-made CO₂? - ONLY SLIGHTLY
- Could controlling the production of Man-made CO₂ make any significant difference? - NO
- Are the Icons of the Man-made Global Warming Movement well vindicated? - NO
- Have the reports from the UN IPCC been verified and / or corrected? - NO
- Is the science of Man-made Global Warming really "Settled"? - NO

¹⁷ <http://www.masterresource.org/2010/09/wind-ethanol-economic/>

Some Questions on Climate Change

The science of climate is complex and extremely difficult to predict forward. But there are some facts that are worth airing and some straightforward questions that are worth asking.

1 Is “Climate Change” the same as “Global Warming”? Yes and NO

The UN IPCC, have changed their nomenclature from “Global Warming” to “Climate Change”. It now looks as if that too is morphing into “Global Climate Disruption”.

Thus “Climate Change Believers” now back the horse whichever way it runs.

Nonetheless all their policy recommendations are only ever intended to control excessive Global Warming by the reduction of Man-made CO₂ emissions.

This is the blinding paradox of the Warmist position.

2 Is Climate Change happening? YES

Absolutely climate change is happening as it always has.

As well as the essential warming tendency of “Greenhouse gasses” amounting to an average of about 33°C, (including mainly water vapour, ~95% of the effect), the world climate changes in response to a range of factors operating on several overlapping cycles on widely differing time scales.

These have been observed:

- in the immediate past, the last 2000 years
- the last 12000 years since the Holocene maximum which tracks the whole of the development of the civilisations of mankind
- and also over geological time.

These cycles may either enhance or negate each other, giving rise to the complex long-term global climate patterns¹⁸.

Probably the most important and most immediate of these is solar radiance. In the past and particularly by climate modellers, the Sun’s energy input to the earth has been regarded as stable and invariant, the “Solar Constant”. However even minor variations in the geologically very short term may well prove to be very important to man-kind and its survival in the world’s climate.

The most immediate example of this variation is the sun spot cycle¹⁹. This is normally about every 11 years, even though the current cycle at 12.5 years+ is considerably extended. At the peak of the cycle, the sun is most active both marginally increasing the radiant heat energy received by the earth and almost certainly more importantly varying the intensity of its magnetic field, the solar wind²⁰.

The earth is continuously bombarded by Cosmic Radiation from outside the solar system. Both the sun’s magnetic field and the atmosphere provide shields for the Earth from this radiation²¹.

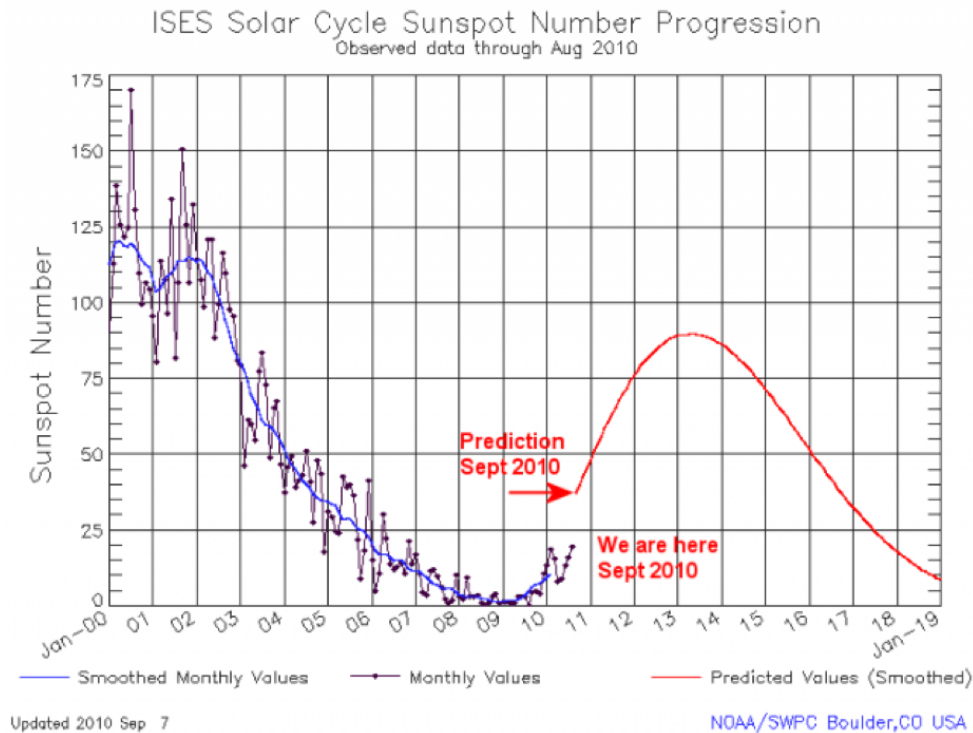
¹⁸ <http://wattsupwiththat.com/2009/09/10/svensmark-global-warming-stopped-and-a-cooling-is-beginning-enjoy-global-warming-while-it-lasts/>

¹⁹ <http://www.swpc.noaa.gov/SolarCycle/index.html>

²⁰ <http://news.sciencemag.org/sciencenow/2010/09/say-goodbye-to-sunspots.html>

²¹ <http://wattsupwiththat.com/2010/11/25/something-to-be-thankful-for-at-last-cosmic-rays-linked-to-rapid-mid-latitude-cloud-changes/>

However, when there is low sun spot activity as at present, and the sun's magnetic activity is also low there is a higher penetration of cosmic radiation entering the atmosphere. This induces the formation of more rain droplet nuclei, thus creating more reflective cloud cover enhancing the cooling by reducing incoming solar radiation and increasing precipitation.



In 2010 the sun is still remarkably quiet^{22 23 24}, with very few sunspots and an extended minimum in the sunspot cycle. Many reliable predictions say this situation could well persist for a long period, perhaps through to 2050, resulting in a similar and disastrous lethal cooling as at the Maunder minimum in 1645 to 1715 at the depths of the Little Ice Age²⁵.

In addition, there are several other significant and overlapping solar / planetary cycles with complex interactions, the Milancovitch Cycles, including:

- the eccentric orbit of the earth around the sun, (cycling at ~100,000 years).
- the tilt of the earth's axis in its orbit (cycling at ~41,000 years).
- the wobble the earth on its axis (cycling at ~23,000 years).
- the passage of the solar system through the spiral arms of the Milky Way galaxy giving rise to an increased level of cosmic ray radiation²⁶.
- the gravitational influence of other planets in the solar system.

as well as:

- other major planetary events can profoundly affect the climate, including:
 - slow variations of ocean currents, Pacific Decadal Oscillation (PDO, about every 30 years)²⁷. This is now entering a negative cooling phase again having been positive for the last 30+years.
 - slight periodic variations of currents and temperature in other Oceans such as the Arctic and the Atlantic²⁸.

²² <http://www.newscientist.com/article/mg20627640.800-whats-wrong-with-the-sun.html>

²³ <http://www.probeinternational.org/livingston-penn-2008.pdf>

²⁴ <http://www.physorg.com/news203746768.html>

²⁵ http://www.iceagenow.com/Triple_Crown_of_global_cooling.htm

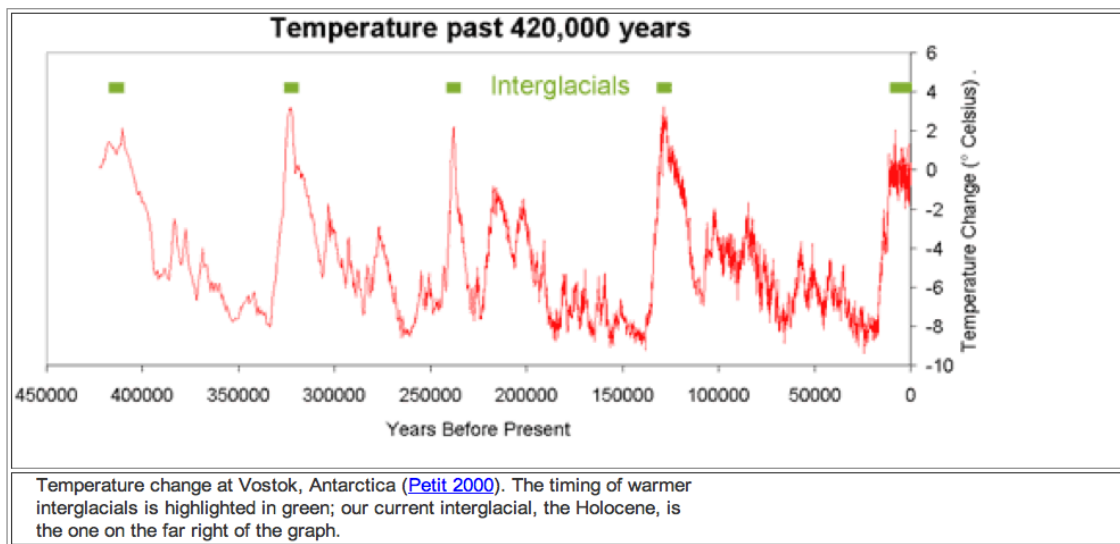
²⁶ http://www.space.dtu.dk/English/Research/Research_divisions/Sun_Climate.aspx

²⁷ <http://wattsupwiththat.com/2010/09/26/a-must-read-european-climate-alpine-glaciers-and-arctic-ice-in-relation-to-north-atlantic-ssr-record/#more-25384>

- the fairly regular el Niño (giving raised temperatures worldwide, as in 1998) and el Niña events (with opposite negative effects) in the Pacific occurring every 3 – 7 years.
- the more random occurrence of major volcanic eruptions. Each of which are capable of releasing more CO₂ in a single event than is produced by mankind in a year as well as enormous amounts of dust and reflective sulphur dioxide (SO₂). Such eruptions can have radical cooling effects as was seen with the 2 year cooling following the eruption of Mount Pinatubo in 1991 ²⁹.

Any or all these effects easily overwhelm the changes to the greenhouse effect induced by the addition CO₂ in the atmosphere from Mankind burning fossil fuels. Man-made additions may appear major to man-kind but in the whole planet context they are marginal, when compared with the scale these other geological and planetary forces at work.

The results of the cumulative effects of these events over time can be seen in the following graph derived from 500,000 years of ice core data ³⁰.



Shorter warm interglacial periods are interspersed by much longer (~100,000 years) cooler periods, Ice Ages. So in this 21st century the world is probably getting towards the end of an unusually extended interglacial period and world temperature has been diminishing marginally but progressively since the start of this interglacial age at the height of the Holocene maximum (also known as the “Holocene Optimum”) 12000 years ago. It must be questioned why a period significantly warmer than the present was considered a climate optimum.

So Mankind and all its civilisations have developed over the recent comparatively short, (but now somewhat extended), inter-glacial period of about 12000 years since the last Ice Age. As can be seen above, previous interglacial periods only lasted little more than half that time. Present temperatures having recently been warmer are now at about at the 12000 year norm. Man-kind’s current technological age has only occupied the last 200 years of that 12000 year period or less than 2% of this current benign interglacial.

However, as has occurred before, the world may well be approaching the end of the inter-glacial period and could soon descend into disastrous full scale Ice Age again, (it is certainly overdue), or as more likely in the immediate future a similar situation to the Little Ice Age, when the then adverse climate caused the retreat of the civilisations ³¹.

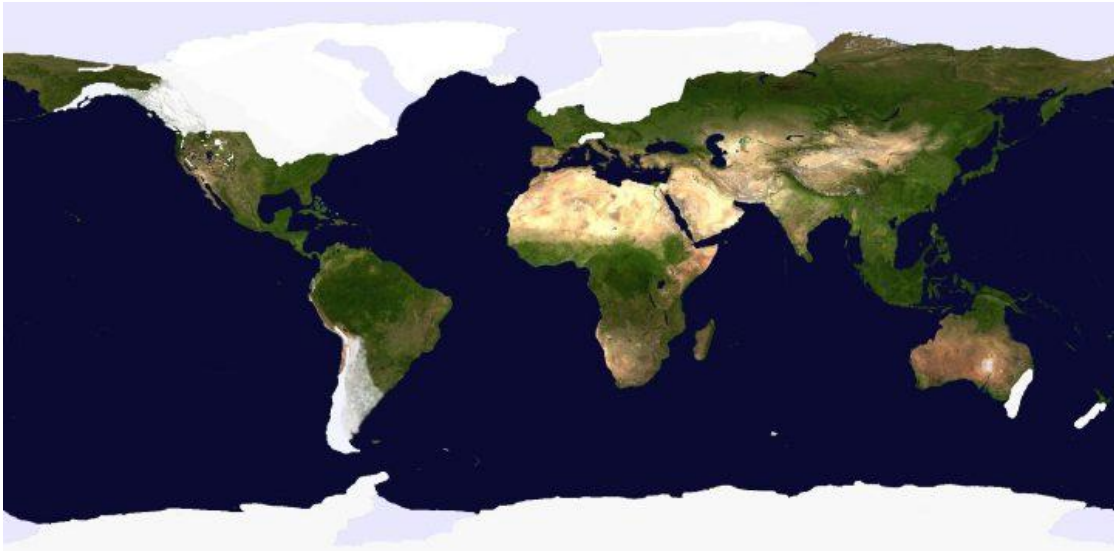
²⁸ http://scienceandpublicpolicy.org/images/stories/papers/reprint/multidecadal_tendencies.pdf

²⁹ <http://pubs.usgs.gov/fs/1997/fs113-97/>

³⁰ http://www.daviesand.com/Choices/Precautionary_Planning/New_Data/

³¹ http://icecap.us/images/uploads/Some_Weather_Extremes_are_Real_but_Causes_at_Natural.pdf

The extent of glaciation and some of the land bridges due to lower sea levels during the last Ice Age is shown below.

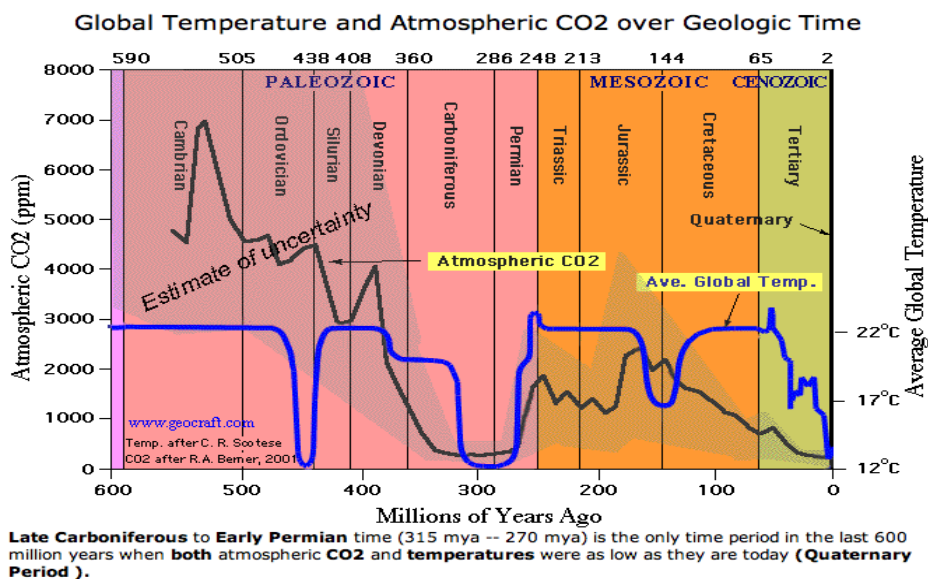


It is clear that were the world to descend again into a glacial age the world would rapidly become incapable of supporting mankind.

3 Is the “Greenhouse Effect” important to our planet ? YES

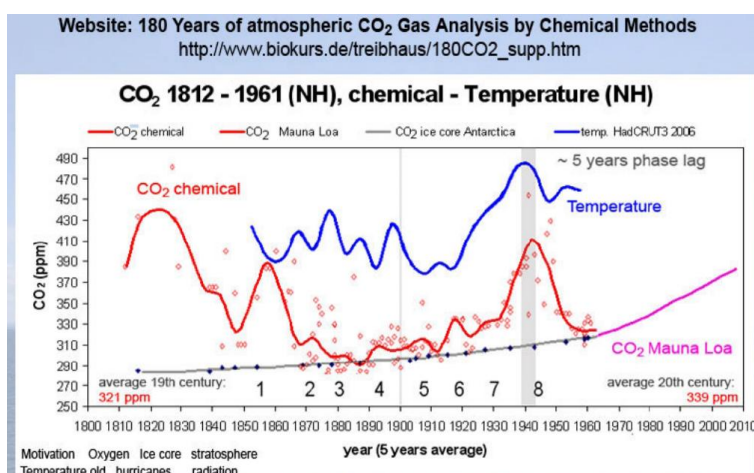
Absolutely, without the protection of the Greenhouse Effect the world would be a very cold and uninhabitable place. It is estimated that the warming effect is in total in the region of $\sim 33^{\circ}\text{C}$. In other words the average world temperature would be at an uninhabitable -18°C without the Greenhouse effect.

In the geological past global temperatures have been significantly higher than now and much higher CO_2 levels have not necessarily been associated with runaway raised temperatures as can be seen below³².



³² http://www.geocraft.com/WVFossils/Carboniferous_climate.html

More recent assessments of CO₂ levels have shown that far from 280 ppm being a fixed and optimal constant in the recent past that levels over the past 150 years, particularly in 1820, 1860 and 1945 have been at much the same levels as at present or higher even before Man-made CO₂ could have been a warming factor³³. See below

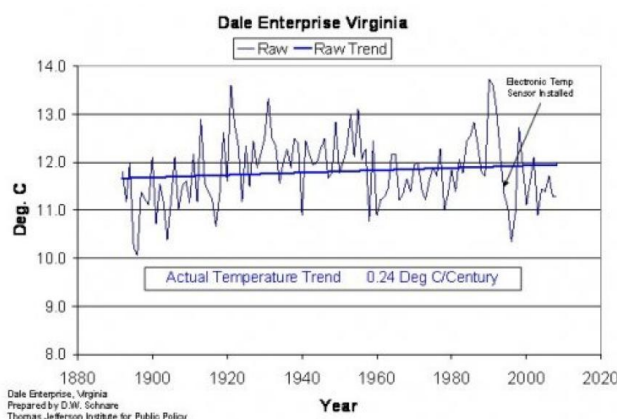


4 Are published data on Global Temperature accurate and can they be trusted ? NO

Accumulating consistent long-term temperature measurements at ground level is much more difficult than it might seem.

Static ground based weather stations are very susceptible to changes in their local environment as land use changes around them and to their poor maintenance. Because of the Urban Heat Island Effect, caused by the local environment, a large city like London can be as much as 2-5°C warmer than its surrounding countryside. Many of the ground-based thermometers now in use were originally installed at airports, when they were only green fields, now they are massive developments.

The chart below shows a longish, (1890 to date), unadjusted continuous temperature record for a single well sited and continuously well maintained rural US weather station in West Virginia. This un-adulterated record shows only a very modest warming of 0.24°C per century. This clearly implies that there has only been some modest warming over the last century if all consideration of urban locations for measuring equipment and any adjustments³⁴ made by “climate scientists” were ignored³⁵.



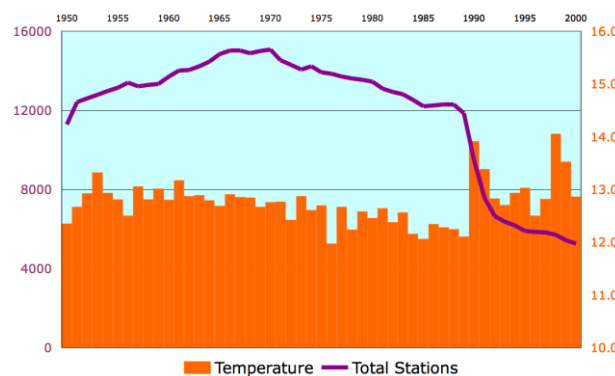
³³ <http://www.biomind.de/realCO2/statements.htm>

³⁴ <ftp://ftp.ncdc.noaa.gov/pub/data/ushcn/v2/monthly/menne-et-al2009.pdf>

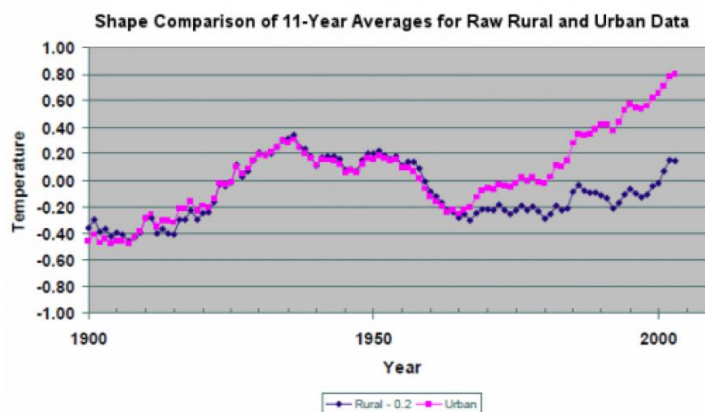
³⁵ <http://wattsupwiththat.com/2010/02/26/contribution-of-ushcn-and-giss-bias-in-long-term-temperature-records-for-a-well-sited-rural-weather-station/>

Assessments of world surface temperature are made by combining temperature data from worldwide sources and also by interpolating intermediate temperatures over a grid where measuring stations do not exist. Many rural and more northerly measuring stations were totally lost with the fall of the USSR. But since then many others still in operation have been deliberately ignored by the UK Meteorological Office, the Climatic Research Unit at East Anglia University and NASA GISS in producing their global data sets. It should also be noted that Phil Jones at East Anglia CRU has published papers explicitly discounting the Urban Heat Island effect³⁶.

In addition, the number of stations being considered have been radically reduced, for example by omitting information from Russia particularly from more northerly and rural stations. The impact of the loss of many mainly rural temperature stations on measured temperatures can be seen below.



The graph below shows the divergence between well-sited rural US weather stations and weather stations that are increasingly susceptible to the Urban Heat Island Effect (UHI).



But that is not all, US climate scientists have routinely been making adjustments to the raw data they present from Rural stations increasing their apparent temperatures by some 0.47°C / century. These results are always a one-way street to emphasise the apparent amount of warming.

The following table clearly shows the scale and impact of the adjustments in the USA.

Station Set	°C/Century, 11-Year Average Based on the Use of	
	Raw Data	Adjusted Data
Rural (48)	0.11	0.58
Urban (48)	0.72	0.72
Rural + Urban (96)	0.47	0.65

³⁶ <http://noconsensus.wordpress.com/2010/01/05/cru-3b-urban-warm-bias-in-ghcn/>

In addition this adjustment by the promoters of global warming has been progressive as can be seen in the graphs of presentation of three different versions of global temperature produced by NASA GISS between 1980 and 2007.



The promoters of this data set are now proclaiming that 2010 will be the warmest year on record. This would be hardly surprising if they have adjusted the past downwards and the present upwards.

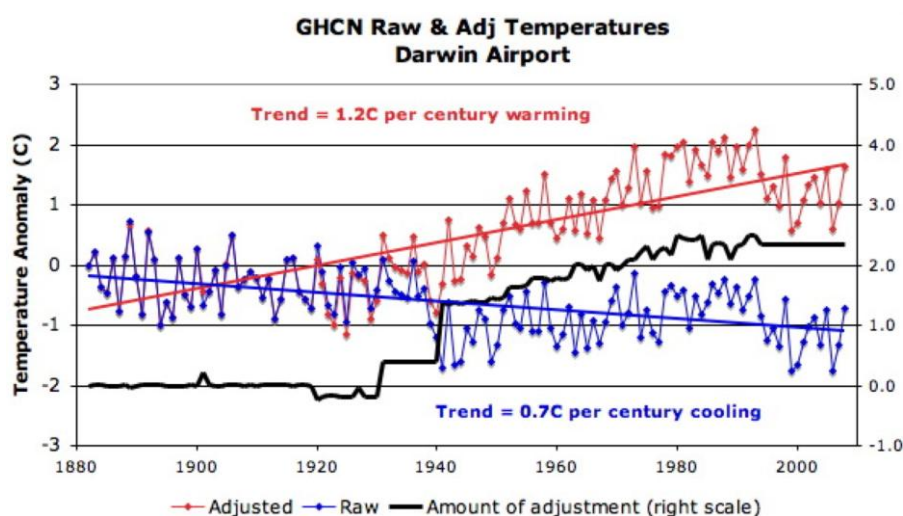
One can only conclude that if only well maintained and well sited rural stations were considered so as to avoid the Urban Heat Island Effect entirely and if the adjustments made by climate scientists devoted to the Man-Made Global Warming assertion were ignored that reports of the warming of the earth from ground based measurements would be much reduced. But the protagonists of the Global Warming assertion are also the custodians of the data.

Sadly the un-auditable re-adjustment of temperature history has become a worldwide phenomenon. Recently it has become clear that many unwarranted adjustments always showing additional warming have been consistently made to the four main sources of accredited global temperature records.

Some examples of such adjustments include:

- USA: NASA GISS have admitted errors and revised their data set downwards. They have also reduced the levels in their historic records for last century thus enhancing the appearance of Global warming. It is now slowly becoming clear that the satellite data provided by NOAA has been comprehensively corrupted with over estimates of temperature over a period of several years. This data has been distributed worldwide as the foundation of many climate models supporting the Man-made Global warming assertion. It may now be the subject of legal challenge.
- Russia: only 40% of the now limited available readings were used by the collators of temperature data always favouring warmer urban sites.
- Canada, many northern sites are now ignored in the collation of temperature data for the IPCC.
- UK: the evidence that both the UK Meteorological office and the East Anglia University Climatic Research Unit have made unwarranted upward adjustments to the data they publish to support the scientific case of the UN IPCC is clear from the release of data and e-mail correspondence in “Climategate”: eliminating data to “hide the decline”.
In flagrant contradiction of normal scientific method they have also destroyed the original records so their adjustment processes cannot be re-audited and reproduced in retrospect.
- Australia: another single example, one amongst many in Australia, from the data for Darwin in the Northern Territories makes the point about unwarranted adjustments made by NOAA/GHCN, the Global Historical Climate Network.

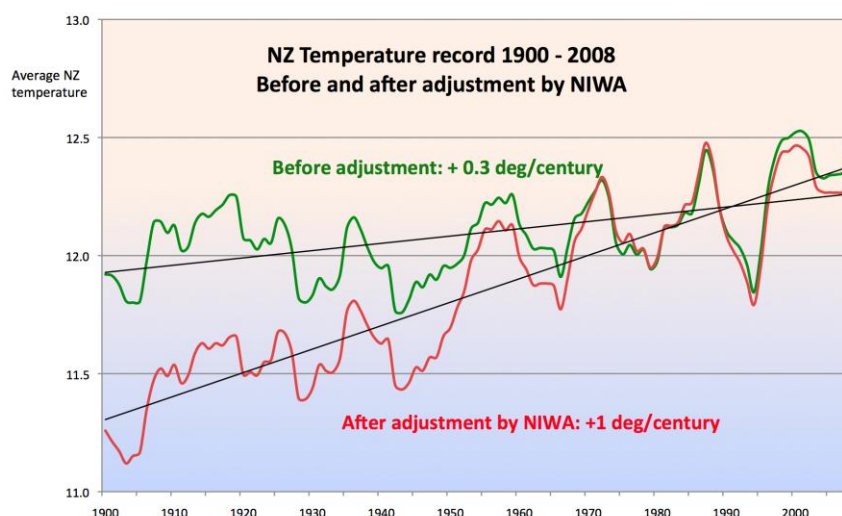
That shows how to turn records of 0.7°C cooling/century into 1.2°C warming/century with unexplained, and un-auditable adjustments³⁷. It is certainly now clear that the Australian Government central research facility, the CSIRO, is wholly committed to the “Warmist” doctrine and supports it on behalf of their Federal Government.



- New Zealand: the following table shows the unexplained differences between recorded data and data published by the National Institute of Water & Atmospheric Research (NIWA) for several locations³⁸.

Station	Trend: °C per century		
	Unadjusted	Adjusted	Difference
Auckland	+0.22	+0.62	+0.40
Masterton	+0.47	+1.10	+0.63
Wellington	-0.51	+0.28	+0.79
Nelson	-0.23	+0.47	+0.70
Hokitika	-0.13	+0.76	+0.89
Lincoln	+0.02	+0.89	+0.87
Dunedin	+0.69	+0.54	-0.15

The following graph shows the extent of the downward adjustments of past readings over time made in New Zealand^{39 40}.



³⁷ <http://wattsupwiththat.com/2009/12/08/the-smoking-gun-at-darwin-zero/>

³⁸ <http://www.quadrant.org.au/blogs/doomed-planet/2010/05/crisis-in-new-zealand-climatology>

³⁹ <http://wattsupwiththat.com/2009/11/25/uh-oh-raw-data-in-new-zealand-tells-a-different-story-than-the-official-one/>

⁴⁰ <http://nzclimatescience.net/images/PDFs/niwa.ct.docs.pdf>

These results are now the subject of a challenge in the New Zealand High Court. As a result of the challenge the New Zealand government agency have now accepted that their records had been falsified deliberately as a result of the political pressure upon them. So there is a chance that in future other National records may also be subject to legal challenge ⁴¹.

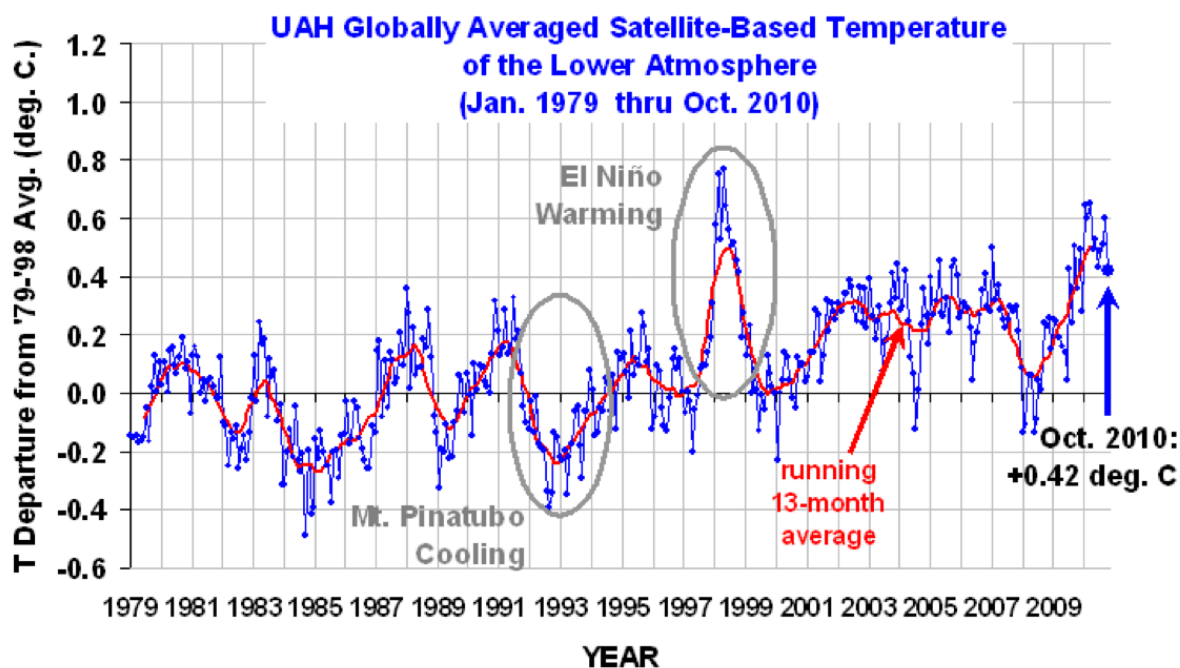
It seems to have become common practice for national Meteorological Services worldwide to make these sorts of upward adjustments in the present and downward adjustments in the past, always with the intention of showing increased warming of their regions of the planet ⁴².

A suspicious mind one would consider that these sorts of adjustments were as a result of a coordinated international intergovernmental programme or at least co-ordinated “groupthink”. And as a result it is hardly surprising that the published record used by the UN IPCC authorities shows significant worldwide warming. Accordingly the quality of the record becomes questionable and entirely unverifiable in retrospect. Sceptics would certainly think that this was entirely intentional outcome.

Accounting for these effects warming may well be substantially less than 0.3°C rise recorded since 1940.

On the other hand satellite ⁴³ measurements take a continuous whole worldview and do not attempt to extrapolate temperatures across vast areas such as Russia and the poles from an increasingly limited and questionable set of ground based weather stations. They are not linked to any ground based measurements.

Current measurements, including the more recent and reliable satellite data, (ie since 1979), and weather balloon sources, certainly show no warming this decade since the year 1999.



Since about 1850, the end of the “little ice age”, there has certainly been some warming of the planet overall, perhaps as much as 0.5°C in the 90 years between 1850 and 1940. In the 70 years since 1940 the increase in temperature has been assessed at a maximum 0.3°C.

Man-made CO₂ in the atmosphere only became a possible issue after 1940 but the earlier rate of warming from 1850 to 1940 was about 30% faster in the earlier period before that.

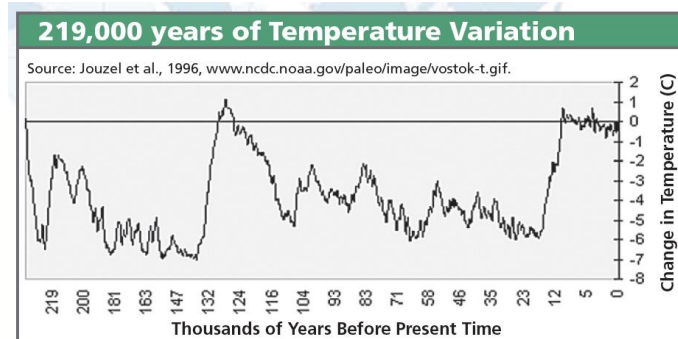
5 Has the world been warmer than at present recently? YES

⁴¹ <http://www.suite101.com/content/legal-defeat-for-global-warming-in-kiwigate-scandal-a294157>

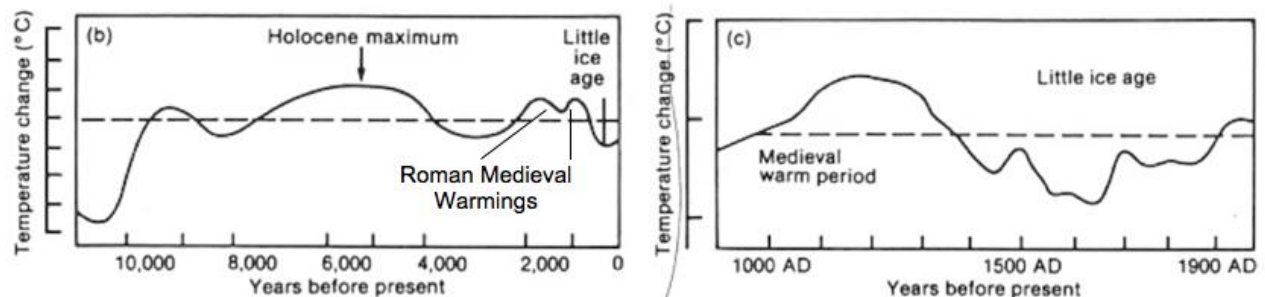
⁴² <http://wallstreetpit.com/20710-climategate-goes-back-to-1980>

⁴³ <http://wattsupwiththat.com/2010/05/05/uah-global-temperature-anomaly-a-bit-cooler-in-april/>

The whole of Mankind's civilisation has blossomed in a remarkable and extended period of comparatively high and stable temperatures over the past 12,000 years starting with the Holocene maximum, after the last Ice age and comparatively "minor" fluctuations since. Minor is perhaps an exaggeration in terms, such climate fluctuations included the damaging Little Ice Age 1300 – 1850 which impeded man's progress for many generations.



One of the earliest IPCC reports in 1990 presented the following two graphs.



These graphs clearly acknowledged the Holocene Maximum and the Roman and Medieval Warming Periods as well as the Little Ice Age. They were originally compiled under the aegis of Sir John Houghton the Director of the UK Meteorological Office from a wide range of complementary academic sources.

However Sir John Houghton is now a vehement Man-made Global Warming Believer and has subsequently controlled the attitudes of the UK Met Office. This government organisation now illogically refutes that original data. Sir John Houghton was apparently the "alarmist" who said, (paraphrased),

"we must announce disasters if we are to get the attention we need".

The IPCC has subsequently suppressed these two original graphs in their literature and the original report from 1990 containing them is no longer available on line. It has also consistently pursued his policy of repeatedly announcing future catastrophes and disasters.

More interesting however is the history of the past 10000 years, since civilisation has blossomed. There is well-documented historical evidence that there have been much warmer periods than now when human civilisations advanced:

- the Egyptian and Minoan civilisations developed and thrived during a much warmer period than now towards the end of the Holocene maximum.
- the Roman empire thrived during a warm period, when they could grow vines in the north of England.
- the dark ages that followed were a cooler time with the downfall of Roman and Mayan civilisations.
- Greenland is called Greenland because it supported an active farming community until about 1100, when the climate deteriorated into the Little Ice Age.
- the Vikings called their discovery of Labrador and Newfoundland "Vinland" because vines were found there too.

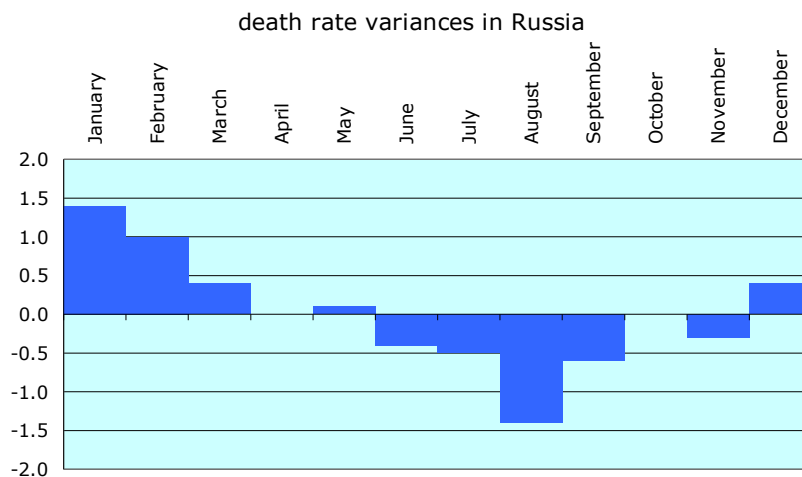
- the Medieval Warm Period lead to the blossoming of civilisation throughout Europe with the excess resources for cathedral building, for example.
- at the end of that warm period the Little Ice Age lasted from 1300 to 1850. One of its earliest manifestations was the disaster of the black death.

But we now seem to be coming out of the Little Ice Age and the global climate has been warming somewhat since about 1850. This would seem to be a natural progression within natural bounds.

6 Would some warming within natural limits be altogether bad ? NO

The Climate Alarmists never cease to predict catastrophes for minor planetary warming: vastly rising sea levels, more extreme weather events, droughts, floods, and so on. However some warming would not be altogether bad for the following reasons:

- recent (since 8000 BC) warmer periods have always been successful periods of human development, and cooler periods have been times of deprivation and the failure of crops and civilisations.
- human health improves with warmer times resulting from the surpluses of a more productive agriculture. Deaths from summer heat waves may grab the headlines but winter cold kills far more people throughout the world ⁴⁴. Variance in Russia are as follows:



- agriculture thrives in a warmer climate, with more areas closer to the poles becoming available for cultivation, thus increasing world food supplies ⁴⁵.
- extinctions, movements and changes in animal populations have always been a fact of life, in response to changing climate. Without the predations of mankind itself and left to its own devices, wildlife moves and adapts to the newly available habitats. The more likely causes of extinctions are man's encroachment on and destruction of wildlife habitats. Past warm periods have lead to increased biodiversity. The warmer tropics provide the environment for maximum biodiversity and the polar regions retain only a limited species mix. The Holocene maximum certainly did not lead to the extinction of polar bears nor probably directly to any other species.
- as the temperature differential between the tropics and polar regions, (the driver of adverse weather events), are reduced. Warmer periods in the past have given more stable, more benign weather patterns. There is clear evidence that tropical storms and hurricanes have been reducing in frequency and intensity over the recent decades in response to the current modest warming.

⁴⁴ <http://www.theage.com.au/news/Business/Kyoto-kills-growth-says-Putin-chief-economist/2004/12/08/1102182359957.html>

⁴⁵ http://www.usatoday.com/weather/climate/2010-10-08-climate-farmers_N.htm

So perhaps any exceptional winter of 2009 – 2010 in the Northern hemisphere should be ascribed to Global the initiation of cooling rather than to Global warming.

- it has been suggested that fresh water melt into the North Atlantic could interfere with the Gulf Stream, the Great Atlantic Conveyor which keeps Europe much warmer than its latitude would imply. This has certainly occurred in the past, about 11,000 years ago, (the Younger Dryas). At that time, a vast amount of dammed-up, on-land fresh glacial melt water from Canada and the whole Northern USA was released suddenly via the St Lawrence seaway. This dilution of the dense salty water stopped the sinking of cold water in the North Atlantic and lead to the cut off for the Gulf Stream for about 1000 years. As a result it produced cold conditions throughout Northern Europe.

There is no longer sufficient on-land glaciation to enable such a dramatic outcome.

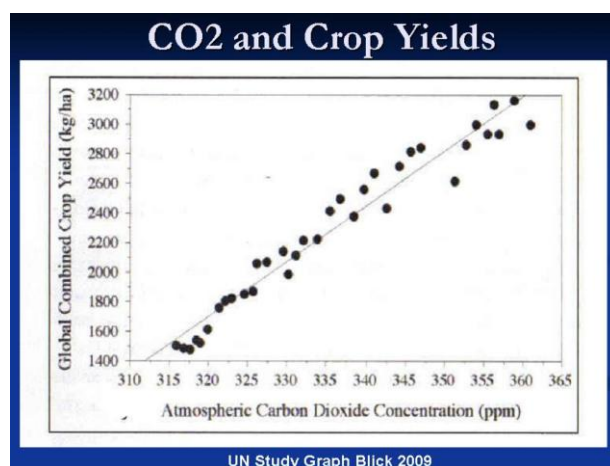
Far from fearing a modest warming of the climate, from whatever reason, we should probably be much more concerned about the possibility of another Ice Age, even a Little Ice Age. This would radically diminish the world's ability to support its growing population ^{46 47}.

7 Is CO₂ a pollutant ? NO

Absolutely not: in spite of what is now being taught in schools about CO₂ being a pollutant, CO₂ is an essential trace gas in the atmosphere: without CO₂ photosynthesis does not work. And photosynthesis is the origin of all life on the planet.

Apparently the concentration of CO₂ has risen from 280 parts / million (0.028%) since about 1850 to its current level of 380 parts / million (0.038%), an increase of about +35% over the period. This level is low when one considers the geologic past when concentrations have been as much as 5,000 parts / million with no runaway warming affect, (see section 3). As some warming has occurred in the recent past resulting in slightly warmer oceans they are unable to retain some of their dissolved CO₂ and thus release very large quantities of the gas into the atmosphere.

Photosynthesis stops and plants die at less than 200 parts / million, so the world is still at close to low levels of atmospheric CO₂ in the atmosphere ⁴⁸. CO₂ is essential for the growth of all plants, increased concentrations substantially fertilise plant growth and at the same time reduce their need for water so that more drier environments become more available for cultivation.



Horticulturalists routinely add CO₂ to a level of 1400 parts / million to the air in their greenhouses to enhance plant growth. That is likely to be the reason why plants get sad as soon as you get them home from the nursery.

⁴⁶ <http://stevengoddard.wordpress.com/2010/09/23/a-tribute-to-the-hottest-year-ever/>

⁴⁷ <http://www.suite101.com/content/evidence-of-solar-scientists-raise-fears-of-imminent-ice-age-a288855>

⁴⁸ http://www.geocraft.com/WVFossils/Carboniferous_climate.html

It has been estimated that the current increased CO₂ concentration has already increased plant growth worldwide by some 15% + over pre-industrial levels ⁴⁹.

So any ideas for the sequestration of Man-made CO₂, (Carbon Capture), are really pointless. It would require a doubling of the energy input and thus great additional cost of energy production. Thus Carbon Capture could only rob the planet of a valuable fertilisation resource and incur much increased energy costs ⁵⁰.

But now school children are taught that atmospheric CO₂ is a terrible man-made pollutant rather than the very stuff of life, that it really is.



See the drowning puppies in this piece of crude UK government propaganda ⁵¹, promoted at the time by the now leader of the UK Labour Party, Ed Milliband, whilst he was minister at the UK Department of Energy and Climate Change. Convincing children to influence their parents is a classic propaganda technique, worthy of Dr Goebels. This and similar UK government adverts have now been banned by the Advertising Standards Authority.

The Climate Change Bill promoted by Ed Milliband is credited with being the most expensive and wasteful piece of legislation ever passed by the UK parliament ^{52 53}. It has still not been seen by parliamentarians of all parties for the incredible blunder that it really is ⁵⁴.

8 Is current Global Warming mainly caused by Man-made CO₂ ? - ONLY SLIGHTLY

The world's warming of less than 0.8°C since 1850 was ~0.5°C before 1940 (when increased man-made CO₂ could not have been a factor) and ~0.3°C (or probably less) up until the present.

The contributors are as follows:

		contribution 1850-1940	contribution 1940-2010
water vapour and clouds	~95%	0.475°C	0.285°C
all GHGs CO ₂ , methane and others	~5%	0.025°C	0.015°C

Note that the rate of warming since 1940 has been at 75% of the rate of warming from 1850 to 1940.

Such an increased contributive amount is still so small as to be virtually undetectable and within the margins of error and would have to assume that none of the other factors, such changes as solar radiance, have had any influence whatsoever. But the figures above account for all atmospheric CO₂, but at a minimum about 93% is natural generated within the biosphere and only a small part is additionally generated by Man-kind, see Section 9.

⁴⁹ http://www.youtube.com/watch?v=P2qVnK6zFgE&feature=player_embedded#!

⁵⁰ <http://www.newscientist.com/article/mg20727791.100-emission-control-turning-carbon-trash-into-treasure.html?full=true>

⁵¹ <http://www.timesonline.co.uk/tol/news/environment/article6867046.ece>

⁵² <http://www.telegraph.co.uk/comment/columnists/christopherbooker/8053015/Ed-Miliband-is-the-costliest-politician-in-British-history.html>

⁵³ <http://www.telegraph.co.uk/comment/columnists/christopherbooker/3563191/Climate-Change-Bill-makes-chilling-reading.html>

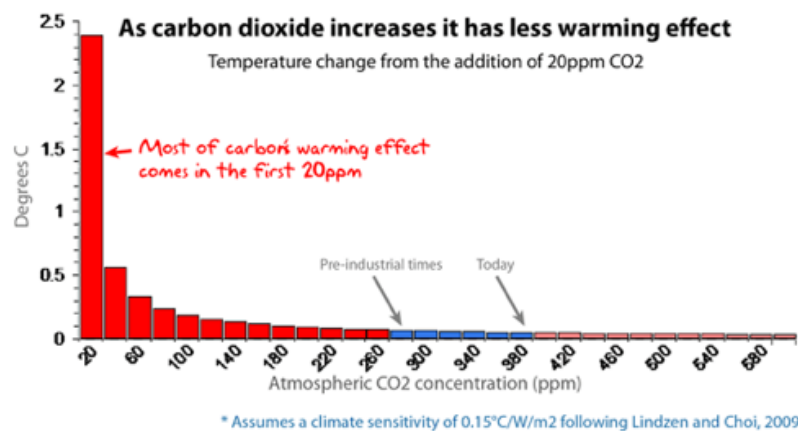
⁵⁴ <http://www.telegraph.co.uk/comment/columnists/christopherbooker/8131383/The-climate-change-scare-is-dying-but-do-our-MPs-notice.html>

But all the models being promoted by the IPCC either ignore the overwhelming 95% effects of atmospheric clouds and water vapour or assume that the effects of even comparatively small increases of Man-made as opposed to naturally produced, CO₂ substantially reinforce the warming effects of water vapour in the atmosphere. It is as if Man-made (but not natural) CO₂ is uniquely a very powerful catalyst.

The positive feedback caused by a marginal addition to CO₂ is:

THE ENTIRELY UNPROVEN SCIENCE.⁵⁵

There is also evidence that because of CO₂'s radiation absorption characteristics the influence of increases in CO₂ are self-limiting as far as its warming / heat absorption effects are concerned. That is why when CO₂ levels were much higher in the past, (more than 5000 parts / million), runaway global warming did not occur. So even doubling of CO₂ levels now could only have marginal warming effects.



In addition, the historic record shows that CO₂ level is a lagging indicator of warming (by several hundred years) so a large part of the increasing concentration of CO₂ since 1850 will have arisen naturally from warming sea temperatures with consequent release of dissolved CO₂ into the atmosphere.

9 Could controlling the output of Man-made CO₂ make a significant difference ? NO

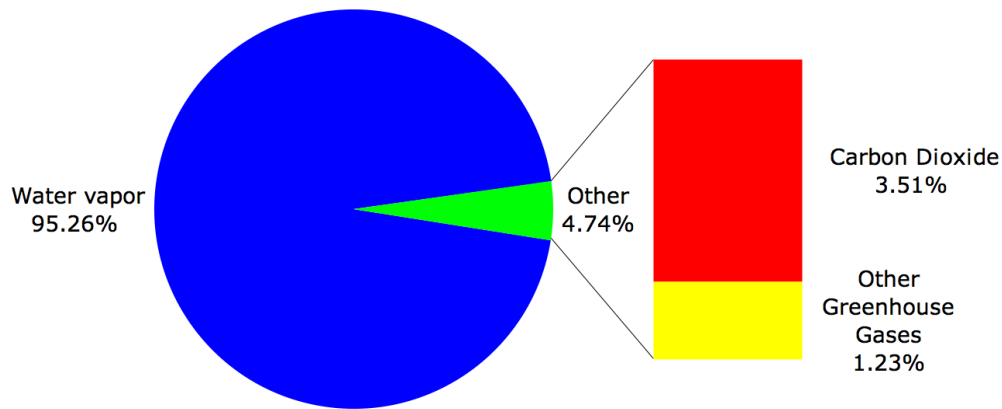
Bjorn Lomborg, (the sceptical environmentalist), has assessed that the impact of the Kyoto accord can only be measured in a matter of days delay in any temperature rise by the year 2100. To back this up, some figures, published as long ago as 2003 in peer-reviewed and official sources, are worth noting.⁵⁶

By far the greatest bulk of the greenhouse effect is caused by water vapour. Of the 5% greenhouse effect of other greenhouse gasses only 75% is attributable to naturally occurring and Man-made CO₂: These proportions do account for the much greater greenhouse effect of other lower concentration gasses such as Nitrous Oxide and Methane⁵⁷.

⁵⁵ <http://www.drroyspencer.com/>

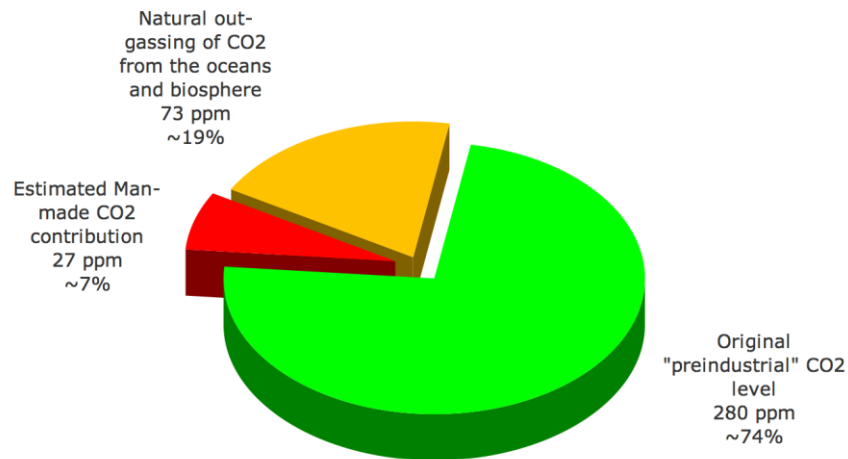
⁵⁶ http://www.geocraft.com/WVFossils/greenhouse_data.html

⁵⁷ http://www.youtube.com/watch?v=Wyo_SNSM8kg



But only a very limited amount of atmospheric CO₂ is Man-made, the figures from 2003 are shown below:

Atmospheric CO₂ origins: estimated values parts / million and percentages

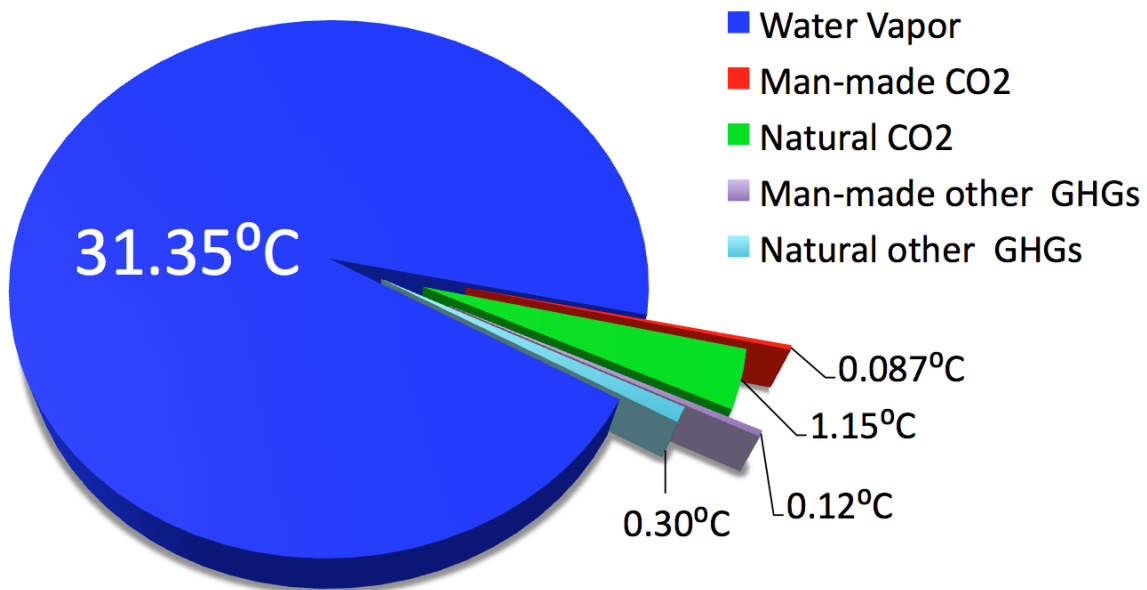


This clearly shows that the Man-made additions to atmospheric CO₂ are still comparatively tiny in the overall CO₂ burden.

Of course there is absolutely no difference between man-made CO₂ molecules and the CO₂ molecules that are generated and occur naturally. Man-made CO₂ molecules cannot be especially potent in affecting temperature.

The Greenhouse effect in total is ~33°C, the following table identifies the amount of warming the worldwide man-made CO₂ contribution is actually making.

- Water Vapour accounts for ~31.35°C
- Carbon Dioxide accounts for ~1.24°C
 - Natural ~1.15°C
 - Man-made ~0.09°C
- Other Greenhouse gases: Methane, Nitrous Oxide and CFCs
 - Natural ~0.30°C
 - Man-made ~0.12°C



These figures have not been contradicted by one of the leading UK Government advisors and a Fellow of the Royal Society. He certainly believes in the problem that is induced by Man-made CO₂, but when asked to show the flaw in the logic he responded as follows:

“Where is the flaw in this logic ?

Greenhouse Effect = +33.00°C Water Vapour causes 95% of the effect = 31.35°C Other Greenhouse gasses cause 5% of the Effect = 1.65°C CO₂ is about 75% of the Effect of all GHGs = 1.24°C Total worldwide Man-made CO₂ is about 7% of atmospheric CO₂ = 0.086°C So closure of the world carbon economy could only result reducing the Greenhouse Effect by 86 thousandths °C The UK contribution to Man-made CO₂ is ~2% = 0.00174°C So closure of the total UK carbon economy could only result reducing the Greenhouse effect by 1740 millionths °C

The following response has been made:

flaws are marked ()*

Greenhouse Effect = +33.00°C Water Vapour causes 95% of the effect = 31.35°C Other Greenhouse gasses cause 5% of the Effect = 1.65°C CO₂ is about 75% of the Effect of all GHGs = 1.24°C. Total worldwide Man-made CO₂ is about 7% of atmospheric CO₂ = 0.086°C

() Nope, steady emissions lead to CO₂ concentration rising.*

So closure of the world carbon economy could only result reducing the Greenhouse Effect by 86 thousandths °C The UK contribution to Man-made CO₂ is ~2% = 0.00174°C So closure of the total UK carbon economy could only result reducing the Greenhouse effect by 1740 millionths °C

() Well, that's "the tragedy of the commons". You can always argue that it is fine for you to be antisocial because you are just one person. But there are other views of ethics, leadership, pollution. London doesn't have smog any more, and that's thanks to all 7 million people all following the lead of whoever went first.”*

The author responded in part as follows but has received no further reply:

“Thank you very much for responding to my question.

I had expected you to find some flaw in my apparently trivial sums. However I sense that you view the figures to be in the right ballpark.

I agree that continuing emissions are progressively adding to atmospheric CO₂. Nonetheless current CO₂ concentrations are still at and will remain close to historical record lows even with the addition of Man-made emissions.

However I do not think that your argument about the Clean Air Act and London Pea Soupers, (I remember them well as a schoolboy), can in any way be analogous to the supposed “pollution” of CO₂ and Water Vapour as greenhouse gasses. The SO₂ and particulate matter that coal-burning in London produced then were qualitatively different: they were not natural and essential constituents of the biosphere. They truly were pollutants.

When you argue the greater good of the “commons” I sincerely believe that there are many more pressing Green priorities for the common good of mankind than reduction of CO₂ emissions. Bjorn Lomborg has made this point very clearly.

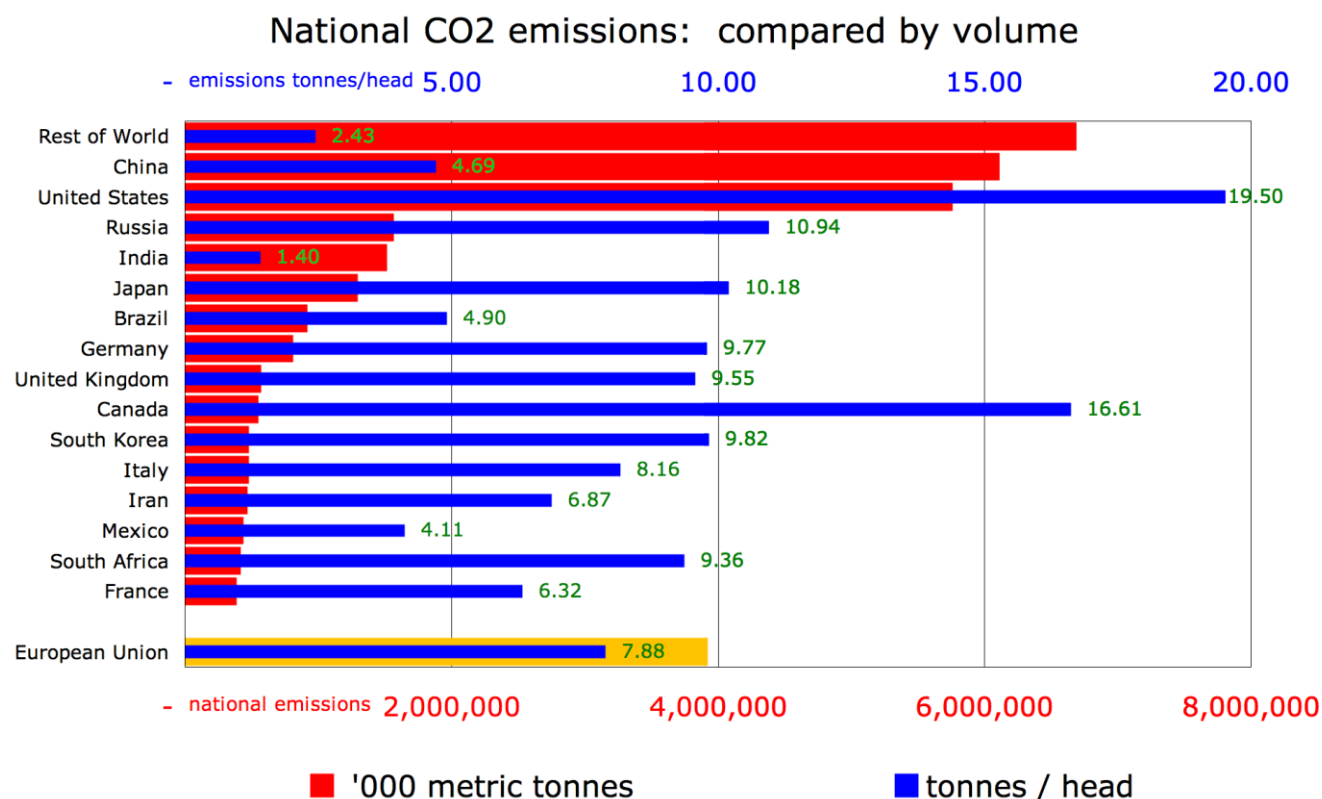
This is especially so when one accepts that any actions, however damaging to the economies of individual countries and/or the world and to the well-being of the world population, are unable to influence global temperature to any degree at all. This is because the total elimination of all Man-made carbon dioxide production worldwide could only ever reduce the Greenhouse effect by less than 0.1°C. That is why I do not understand the idea that by drastic action worldwide many politicians think it is possible to limit any temperature rise, if it is occurring, to +2.0°C.

....

However in the light of the state of the current solar cycle it seems that there is a real prospect of hugely damaging cooling occurring in the near future for several decades.”

It is difficult to reconcile his views about man-made CO₂ causing disastrous / catastrophic global warming with his slogan at the front his book, “numbers not adjectives”.

As following on from the logic that elimination of all Global CO₂ emissions can on ever reduce warming by less than 0.09°C, one can assess the impact of individual countries making that sort of gesture.



As 100% global carbon emissions cause an additional greenhouse effect of less than 0.09°C

	% global emissions	thousandths of °C
France	1.35%	1.17°C / 1000
South Africa	1.46%	1.27°C / 1000
Mexico	1.54%	1.34°C / 1000
Iran	1.64%	1.43°C / 1000
Italy	1.67%	1.45°C / 1000
South Korea	1.67%	1.46°C / 1000
Canada	1.92%	1.67°C / 1000
United Kingdom	2.00%	1.74°C / 1000
Germany	2.84%	2.47°C / 1000
Brazil	3.21%	2.79°C / 1000
Japan	4.56%	3.96°C / 1000
India	5.32%	4.63°C / 1000
Russia	5.51%	4.80°C / 1000
United States	20.26%	17.63°C / 1000
China	21.50%	18.71°C / 1000
Rest of World	23.55%	20.48°C / 1000
European Union	13.80%	12.01°C / 1000

If these figures are even in the right ball park, this implies that if the UK were to close down the whole of its carbon based economy it could only ever have an effect of reducing world temperature by 1.74 thousandths °C. Similarly the effect of closing the whole carbon economy of the European Union would be just 12.01 thousandths °C.

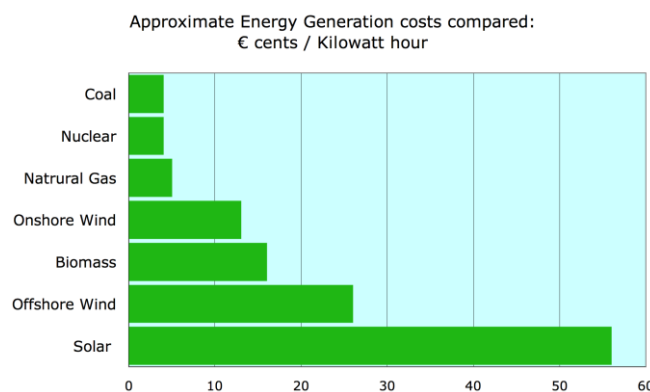
Can the anticipated massive efforts to partially reduce man-made CO₂ emissions and investment that was demanded at Copenhagen ever be justified to obtain such a marginal and probably dubious result?

In France the results of the French long-term energy strategy with its massive commitment to nuclear power is impressive, (~85% of all electricity generation is nuclear).

Even if one is concerned about CO₂, nuclear power seems to pay off, in as much as French CO₂ emissions / head are the lowest in the developed world. So a wholehearted commitment to nuclear power, if only for reasons of CO₂ reduction, let alone the economy of energy production⁵⁸, would make very good common sense.

The greatest tragedy is that the Green Movements have so effectively negated the nuclear energy option in much of the Western world for so long. If, (and this is a very big if), the production of CO₂ from fossil fuels is in fact posing a major the problem and inducing climate change, nuclear energy seems to be the only viable alternative for mankind.

This is particularly so when the costs and land usage of the alternatives are considered^{59 60}.



⁵⁸ <http://www.telegraph.co.uk/comment/columnists/christopherbooker/8025148/The-Thanet-wind-farm-will-milk-us-of-billions.html>

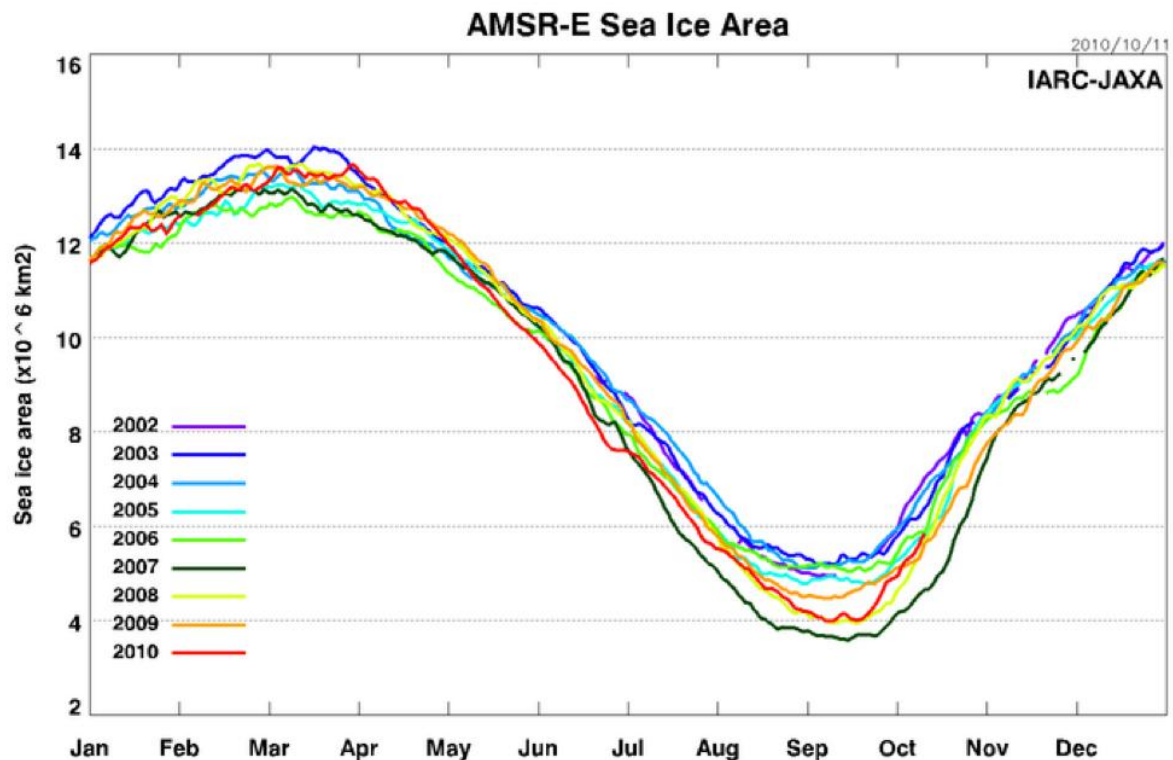
⁵⁹ <http://noconsensus.wordpress.com/2010/11/26/apocalypse-soon/#comments>

⁶⁰ <http://www.cfact.org/a/1843/Climate-change-no-longer-scary-in-Europe>

10 Are the Icons of the Man-made Global Warming Movement well vindicated ?

Just examining a few examples:

- Far from being a unique recent event, records show that the North West passage was navigable in 1903 (Amundsen by sail), 1942, 2000, and in several other years in the last century.
- Polar Bears: the population, far from facing extinction, has grown from 5,000 in 1980 to about 25,000 today, this is as a result on the restrictions on hunting of both the bears and their main food source Harp seals.
- Antarctic warming: there is no current overall evidence of Antarctic warming particularly in the vast Eastern region, which has remained entirely stable through much warmer periods than now, such as the Holocene maximum. Loss of Western Antarctic ice shelves is cyclical and probably arises as a result of wave action and el Niño events.
- Arctic Ice Loss: Daily satellite survey results carried out by a Japanese satellite show that 2009-10 is shaping up to have reasonable coverage, and is recovering rapidly. It also appears that the area covered by Arctic sea ice is heavily dependent on wind patterns, massive undersea volcanoes along the Gakkel Ridge, (an underwater mountain chain snaking 1,800 kilometres from the northern tip of Greenland to Siberia ⁶¹), as well as temperature ⁶².



At the same time Antarctic sea ice is currently at record highs for area coverage.

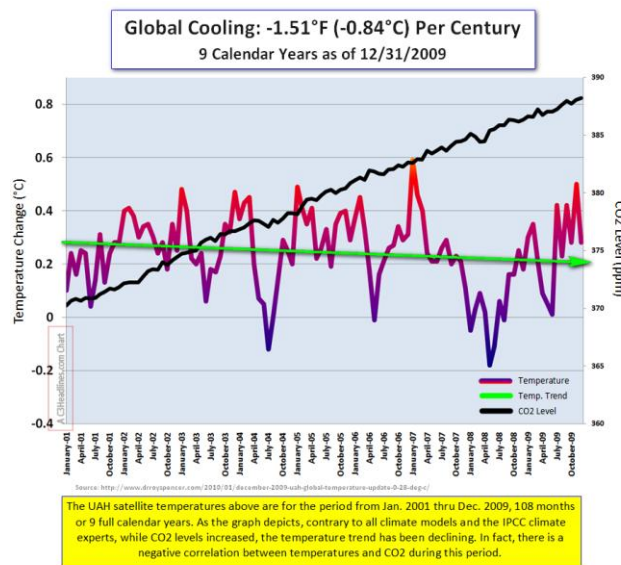
- Glacier melt: glaciers respond over a much longer time period than just a few decades and any reduction in them is due to the beginning of the warming process which began in the mid 19th century. The IPCC claims about the loss Himalayan glaciers by 2035 have been admitted to be in error solely presented in order to advance the political agenda.
- Mt Kilimanjaro is losing its glaciers because of the local destruction of surrounding rain forest and thus lower rainfall on the mountain and was continuing throughout the last century. This is a man-made effect but not as a result of increased CO₂ emissions ⁶³.

⁶¹ <http://afp.google.com/article/ALeqM5gRI87Fyr-TpE6OBYfAcYxFKSXRJg>

⁶² <http://wattsupwiththat.com/2010/09/19/sea-ice-news-23-plus-a-bonus-noaa-blunder/#more-25086>

⁶³ <http://www.newscientist.com/article/mg20727794.400-kilimanjaros-vanishing-ice-due-to-treefelling.html>

- Modern warming is “unprecedented”: The reporters in the IPCC have consistently exaggerated the evidence starting from the original Mann hockey stick graph, which was designed to rewrite history in order to eliminate both the Medieval Warm Period and the Little Ice Age.
- The “Hockey Stick graph, much promoted by Al Gore, “the world has got a fever”, was wholly discredited by a US congressional report, (Professor Wegman⁶⁴), and by the UN IPCC’s own admission in the scientific annexes to their reports but still persists in the their summaries for policy makers.
- There are many examples of much greater warming than at present in the historic record of the last 2000 years. 1998 was a warm year, (as a result of the strong el Niño event), but the record shows that some years in the 1930s were significantly warmer than that last century. Such an assertion is hardly surprising if the official sources of Global temperature data have been comprehensively compromised to emphasise warming.
- The recent temperature history using irrefutable satellite data since 1979: does not show that that temperatures are increasing with growing levels of atmospheric CO₂⁶⁵.



Thus the record also shows that since 1999 even with CO₂ emissions still increasing and in spite of any actions taken under the Kyoto agreement temperatures remained static or there has been a perceptible cooling.

These monthly data were provided from the standard measures of CO₂ from Mauna Loa and the most reliable source of global temperature data, the University of Alabama at Huntsville satellite record. Sadly other sources, rather than being a product of dispassionate, independent voices, have now frequently been shown to be produced by biased and ardent supporters of the Man-made Global Warming assertion, see earlier.

Indeed the recent “Climategate” disclosure of e-mails between these green activists have shown that they were actively engaged in “hiding the decline”, refusing to release their base data for sceptical peer-reviewed comment and destroying the original records so that their results could not be reproduced and audited.

However more recently Professor Jones in a BBC interview has admitted the following^{66 67}:

- “Neither the rate nor magnitude of recent warming is exceptional.

⁶⁴ <http://archives.energycommerce.house.gov/reparchives/108/Hearings/07192006hearing1987/Wegman.pdf>

⁶⁵ <http://www.c3headlines.com/modern-temperatures-chartsgraphs.html>

⁶⁶ <http://wattsupwiththat.com/2010/02/14/phil-jones-momentous-qa-with-bbc-reopens-the-science-is-settled-issues/>

⁶⁷ <http://news.bbc.co.uk/2/hi/science/nature/8511670.stm>

- *There was no significant warming from 1998-2009. According to the IPCC we should have seen a global temperature increase of at least 0.2°C per decade.*
- *The IPCC models may have overestimated the climate sensitivity for greenhouse gases, underestimated natural variability, or both.*
- *This also suggests that there is a systematic upward bias in the impacts estimates based on these models just from this factor alone.*
- *The logic behind attribution of current warming to well-mixed man-made greenhouse gases is faulty.*
- *The science is not settled, however unsettling that might be.*
- *There is a tendency in the IPCC reports to leave out inconvenient findings, especially in the part(s) most likely to be read by policy makers.”*
- Increased sea surface temperatures: if they occur, lead to slow out-gassing of CO₂, greater evaporation leading to greater precipitation and more snowfall, as a result many glaciers and on-land ice sheets grow in response to warmer sea temperatures: however at present there is evidence of slightly reducing sea temperatures. There is now a network of 3,000+ automatic floating Argo buoys recording temperature at the surface and at depth across the world's oceans. At present they seem to be reporting ocean cooling with measurements showing a slight decline in the last decade and warming of about 0.06°C since the 1960s⁶⁸.
- Rise in sea level: Sea levels have risen about 120 meters since the peak of the last ice age 18,000 years ago, see figure in Section 2. Most of this rise occurred during the Holocene maximum, 8-4,000 years ago when on-land glacial ice sheets withdrew across Europe, America and Northern Asia. However for the last 5,000 years the rise in sea level has been consistent at about 17cm / century.

If the climate warms on-land glaciers may melt. But there is a compensating feedback because warmer oceans also evaporate more, fixing water as snow on colder regions such as Antarctica.

Sea levels may also be rising at a modest rate caused by thermal expansion and perturbations in the sea floor itself through tectonic shifts. These have no Man-made cause.

Immediate, sudden and catastrophic sea level rise is not possible as the world does not have sufficient on-land ice to melt to give that great an effect. The recent collapse of the Larsen B ice shelf was due to the extreme Pacific el Niño event in 1997 and apparently long wavelength wave action.

The melting of floating sea ice cannot have any effect on sea level.

11 Have the reports from the UN IPCC been verified and / or corrected? NO

In contradiction of its earlier reports, the founding tenet of the Man-made Global Warming movement was established in the IPCC report of 2001, which highlighted the “hockey stick” data shown below in red in the graph above as **the only and definitive** history of world temperatures over the past 1000+ years, ostensibly showing the “fingerprint” of man-made CO₂ causing the warming effect.

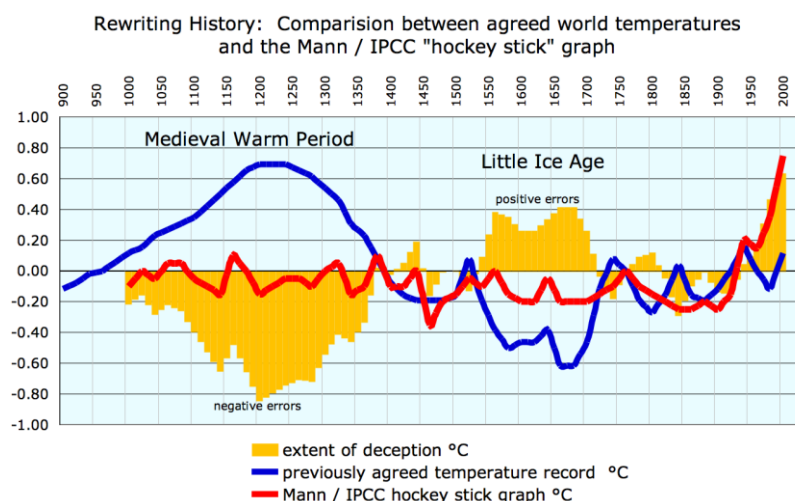
This data set was enthusiastically and uncritically accepted by the IPCC. At the same time they rejected all previous paleo-climate reconstructions as the “Hockey Stick” clearly supported the Man-made Global Warming assertion.

⁶⁸ http://seattletimes.nwsources.com/html/localnews/2004321661_argo02m.html

The extent of the difference between the “hockey stick” and previous earlier and globally agreed representative data sets can be seen on the graph below in orange. This gives an idea of the extent of the deception perpetrated by Mann and the “hockey team”.

The Hockey Stick graph was highlighted in the IPCC Summary for Policy Makers and in Al Gore’s film the Inconvenient Truth. It has been promoted to be the “settled” scientific fact as far as politicians and some interested scientists were concerned ever since.

However the original temperature profile showing Medieval Warming and the Little Ice Age taken from the concatenation of many hundreds of studies is shown in blue, as was presented as the agreed historic record of temperature for the last 1000+ years in the original earlier 1990 IPCC reports and had been produced as a correct analysis under the aegis of the UK Met Office.



The “Hockey Stick” graph effectively deleted the “Inconvenient Truths” of both the Medieval Warming Period and the Little Ice Age, which are known and well documented recent global events of the past climate.

Nonetheless the Hockey Stick graph has since become the icon of the Man-made Global Warming movement. This is in spite of the facts that:

- the scientific advice in the 2001 report was ignored in the policy summary in favour of promoting the hockey stick assertion.
- the original papers by Mann et al were not comprehensively and critically peer reviewed as is normal with scientific publications, but only within their own coterie of “Believers”.
- two Canadian academics, McIntyre and McKittrick ⁶⁹ questioned the methods and data used by Mann et al. In contradiction of all normal scientific practice, they had great difficulty in extracting the base data and algorithms from Mann and when they finally received the information, because the publication standards of the UK Royal Society insisted upon it, they were unable to verify the results of Mann et al. They even found that any data set (even the phone book) read into the Mann computer model would inevitably result in the “hockey stick” graph.
- as a result the scientific basis of the Hockey Stick was comprehensively debunked in the report by a US Congressional committee headed by Prof E Wegman, (a world renowned statistician), in 2006 ⁷⁰. In addition to his assessment of the very questionable statistical methods, it also shows at length that any peer review of the work was only amongst a closed group of “Warmist Believers”. One would have hoped that this would have put an end to the story: that was not so, the deception has continued ever since and is still actively promoted by the original authors.

⁶⁹ http://www.youtube.com/watch?v=STHx27lQuBA&feature=player_embedded

⁷⁰ <http://www.uoguelph.ca/~rmckittrj/research/WegmanReport.pdf>

- it is even alleged that the hockey stick was originally produced by the simple expedient of emphasising by several hundred fold a very limited set of tree ring proxy temperature data, which was searched for by their algorithms and which conveniently fitted the prejudices of the authors. Thus the work of many well established previous temperature studies were conveniently or fraudulently ignored.
- in spite of this cogent and authoritative critique the following 2007 IPCC report retained the hockey stick in its policy summary.

It is hardly surprising that the IPCC has been biased in its reporting. That after all is its sole mandate and raison d'être to prove and support the assertion that Man-made CO₂ emissions are influencing climate. It has been supported in that assertion by many governments commissioning research to support the hypothesis and rejecting research investigations that question the assertion. It is estimated that to date worldwide about \$30 - 60 billion have been invested in research and other efforts to support the Man-made Global warming assertion. Little or no research investment has been made in the last 20 years to examine the fundamental mechanisms inherent in the world's climate in any open-minded way.

The attitude that the science of Man-made Global Warming is "settled", is comprehensively promulgated by the Al Gore film "an Inconvenient Truth". This film gained a Nobel Prize. It continues to be used as a compulsory teaching aid in schools worldwide.

This is in spite of the fact that very many of the assertions made there have been clearly contradicted and found wanting in a UK Court.

12 Is the science of Man-made Global Warming really "Settled" ? NO

In spite of all the continuous and continuing propaganda in the main stream media, in the highest political and academic circles, the science of Man-made Global warming is far from "settled" and the more Al Gore and his Green colleagues make that assertion, the more thinking people will doubt the science.

Several groups from the scientific community have made their positions very clear and many academics in various fields particularly climatology, paleo-climatology and geology are strenuously expressing opposing views.

Mostly those in opposition are mature members in their fields, emeritus professors⁷¹, etcetera. They are therefore immune to the funding blackmail that has continued to be meted out throughout academic communities worldwide.

It takes a considerable amount of courage for an academic to expose himself as a "DENIER", because a position has now arrived where it is almost impossible to get government sourced grant funding in any climate related or other associated fields unless the topic is in some way supportive of Man-made Global Warming.

There has recently been released a survey taken in 2008, (well before Climategate), amongst active climate scientists that even in those earlier days show considerable uncertainty about the theoretical basis of their field.⁷²

Some of the reasons to believe that the case for Manmade Global Warming is not "settled" are listed here:

- a Professor Ian Plimer a world renowned Australian geologist is trenchant in saying that man-made global warming is:
"a load of hot air underpinned by fraud" and "if you have to argue your science by using fraud, your science is not valid".

⁷¹ <http://co2insanity.com/2010/10/08/the-greatest-and-most-successful-pseudoscientific-fraud/>

⁷² http://coast.gkss.de/staff/storch/pdf/GKSS_2010_9.CLISCI.pdf

also

“A growing number of scientists are recognizing that climate, environmental and economic modeling of an inherently unpredictable future is futile and illogical. Long-distance predictions have a monumental rate of failure and those predictions made using computer modeling are no different. In fact, the dire predictions by climate groups have damaged science. Such predictions probably tell us more about the group behavior of the climate modeling community than about global warming.”

“There is a pretty dismal history of experts making predictions about the end of the planet and other such frightening catastrophes. Most predictions, including those of the climate zealots, have religious overtones. Pessimistic predictions attract interest and there is always a crowd ready to listen to dire apocalyptic predictions.”

- b Professor Richard Lindzen a world leading atmospheric physicist and climate scientist from MIT said in 2007:

“Future generations will wonder in bemused amazement that the early 21st century’s developed world went into hysterical panic over a globally averaged temperature increase of a few tenths of a degree and, on the basis of gross exaggerations of highly uncertain computer projections combined into implausible chains of inference, proceeded to contemplate the roll-back of the industrial age”.

and in his congressional evidence in November 2010

“Perhaps we should stop accepting the term, ‘skeptic.’ Skepticism implies doubts about a plausible proposition. Current global warming alarm hardly represents a plausible proposition. Twenty years of repetition and escalation of claims does not make it more plausible. Quite the contrary, the failure to improve the case over 20 years makes the case even less plausible as does the evidence from climategate and other instances of overt cheating.”

- c Extracts from Professor Judith Curry’s response to criticism of her having published in The Scientific American⁷³ that having been a “high priestess of global warming” she now considers she has been “duped into supporting the IPCC”:

“My thinking and evolution on this issue since 11/19/09 deserves further clarification. When I first started reading the CRU emails, my reaction was a visceral one. While my colleagues seemed focused on protecting the reputations of the scientists involved and assuring people that the “science hadn’t changed,” I immediately realized that this could bring down the IPCC. I became concerned about the integrity of our entire field: both the actual integrity and its public perception. When I saw how the IPCC was responding and began investigating the broader allegations against the IPCC, I became critical of the IPCC and tried to make suggestions for improving the IPCC. As glaring errors were uncovered (especially the Himalayan glaciers) and the IPCC failed to respond, I started to question whether it was possible to salvage the IPCC and whether it should be salvaged. In the meantime, the establishment institutions in the U.S. and elsewhere were mostly silent on the topic.

In Autumn 2005, I had decided that the responsible thing to do in making public statements on the subject of global warming was to adopt the position of the IPCC. My decision was based on two reasons:

1) the subject was very complex and I had personally investigated a relatively small subset of the topic;

2) I bought into the meme of “don’t trust what one scientists says, trust what thousands of IPCC scientists say.”

⁷³ <http://www.scientificamerican.com/article.cfm?id=climate-heretic&page=1>

A big part of my visceral reaction to events unfolding after 11/19 was concern that I had been duped into supporting the IPCC, and substituting their judgment for my own in my public statements on the subject. So that is the “dupe” part of all this, perhaps not what Lemonick⁷⁴ had in mind.

If, how, and why I had been duped by the IPCC became an issue of overwhelming personal and professional concern. I decided that there were two things that I could do:

- 1) speak out publicly and try to restore integrity to climate science by increasing transparency and engaging with skeptics; and
- 2) dig deeply into the broader aspects of the science and the IPCC’s arguments and try to assess the uncertainty.

The Royal Society Workshop on Handling Uncertainty in Science last March motivated me to take on #2 in a serious way. I spent all summer working on a paper entitled “Climate Science and the Uncertainty Monster,” which was submitted to a journal in August. I have no idea what the eventual fate of this paper will be, but it has seeded the uncertainty series on Climate Etc. and its fate seems almost irrelevant at this point.

Monster creation

There are some parallels between the “McIntyre monster” and the “Curry monster.” The monster status derives from our challenges to the IPCC science and the issue of uncertainty. While the McIntyre monster is far more prominent in the public debate, the Curry monster seems far more irksome to community insiders. The CRU emails provide ample evidence of the McIntyre monster, and in the wake of the CRU emails I saw a discussion at RealClimate about the unbridled power of Steve McIntyre. Evidence of the Curry monster is provided by this statement in Lemonick’s article:

“What scientists worry is that such exposure means Curry has the power to do damage to a consensus on climate change that has been building for the past 20 years.”

This sense of McIntyre and myself as having “power” seems absurd to me (and probably to Steve), but it seems real to some people.

Well, who created these “monsters?” Big oil and the right-wing ideologues? Wrong. It was the media, climate activists, and the RealClimate wing of the blogosphere (note, the relative importance of each is different for McIntyre versus myself). I wonder if the climate activists will ever learn, or if they will follow the pied piper of the merchants of doubt meme into oblivion.

A note to my critics in the climate science community

Let me preface my statement by saying that at this point, I am pretty much immune to criticisms from my peers regarding my behavior and public outreach on this topic (I respond to any and all criticisms of my arguments that are specifically addressed to me.) If you think that I am a big part of the cause of the problems you are facing, I suggest that you think about this more carefully. I am doing my best to return some sanity to this situation and restore science to a higher position than the dogma of consensus. You may not like it, and my actions may turn out to be ineffective, futile, or counterproductive in the short or long run, by whatever standards this whole episode ends up getting judged. But this is my carefully considered choice on what it means to be a scientist and to behave with personal and professional integrity.

⁷⁴ http://www.climatecentral.org/breaking/blog/why_i_wrote_about_judith_curry

Let me ask you this. So how are things going for you lately? A year ago, the climate establishment was on top of the world, masters of the universe. Now we have a situation where there have been major challenges to the reputations of a number of a number of scientists, the IPCC, professional societies, and other institutions of science. The spillover has been a loss of public trust in climate science and some have argued, even more broadly in science. The IPCC and the UNFCCC are regarded by many as impediments to sane and politically viable energy policies. The enviro advocacy groups are abandoning the climate change issue for more promising narratives. In the U.S., the prospect of the Republicans winning the House of Representatives raises the specter of hearings on the integrity of climate science and reductions in federal funding for climate research.

What happened? Did the skeptics and the oil companies and the libertarian think tanks win? No, you lost. All in the name of supporting policies that I don't think many of you fully understand. What I want is for the climate science community to shift gears and get back to doing science, and return to an environment where debate over the science is the spice of academic life. And because of the high relevance of our field, we need to figure out how to provide the best possible scientific information and assessment of uncertainties. This means abandoning this religious adherence to consensus dogma."

- d Harold Lewis is Emeritus Professor of Physics, University of California, Santa Barbara resignation letter to the American Physical Society:

"When I first joined the American Physical Society sixty-seven years ago it was much smaller, much gentler, and as yet uncorrupted by the money flood (a threat against which Dwight Eisenhower warned a half-century ago). Indeed, the choice of physics as a profession was then a guarantor of a life of poverty and abstinence---it was World War II that changed all that. The prospect of worldly gain drove few physicists. As recently as thirty-five years ago, when I chaired the first APS study of a contentious social/scientific issue, The Reactor Safety Study, though there were zealots aplenty on the outside there was no hint of inordinate pressure on us as physicists. We were therefore able to produce what I believe was and is an honest appraisal of the situation at that time. We were further enabled by the presence of an oversight committee consisting of Pief Panofsky, Vicki Weisskopf, and Hans Bethe, all towering physicists beyond reproach. I was proud of what we did in a charged atmosphere. In the end the oversight committee, in its report to the APS President, noted the complete independence in which we did the job, and predicted that the report would be attacked from both sides. What greater tribute could there be?

How different it is now. The giants no longer walk the earth, and the money flood has become the *raison d'être* of much physics research, the vital sustenance of much more, and it provides the support for untold numbers of professional jobs. For reasons that will soon become clear my former pride at being an APS Fellow all these years has been turned into shame, and I am forced, with no pleasure at all, to offer you my resignation from the Society.

It is of course, the global warming scam, with the (literally) trillions of dollars driving it, that has corrupted so many scientists, and has carried APS before it like a rogue wave. It is the greatest and most successful pseudoscientific fraud I have seen in my long life as a physicist. Anyone who has the faintest doubt that this is so should force himself to read the ClimateGate documents, which lay it bare. (Montford's book organizes the facts very well.) I don't believe that any real physicist, nay scientist, can read that stuff without revulsion. I would almost make that revulsion a definition of the word scientist.

So what has the APS, as an organization, done in the face of this challenge? It has accepted the corruption as the norm, and gone along with it. For example:

1. About a year ago a few of us sent an e-mail on the subject to a fraction of the membership. APS ignored the issues, but the then President immediately launched a hostile investigation of where we got the e-mail addresses. In its better days, APS used to encourage discussion of important issues, and indeed the Constitution cites that as its principal purpose. No more. Everything that has been done in the last year has been designed to silence debate
 2. The appallingly tendentious APS statement on Climate Change was apparently written in a hurry by a few people over lunch, and is certainly not representative of the talents of APS members as I have long known them. So a few of us petitioned the Council to reconsider it. One of the outstanding marks of (in)distinction in the Statement was the poison word incontrovertible, which describes few items in physics, certainly not this one. In response APS appointed a secret committee that never met, never troubled to speak to any skeptics, yet endorsed the Statement in its entirety. (They did admit that the tone was a bit strong, but amazingly kept the poison word incontrovertible to describe the evidence, a position supported by no one.) In the end, the Council kept the original statement, word for word, but approved a far longer "explanatory" screed, admitting that there were uncertainties, but brushing them aside to give blanket approval to the original. The original Statement, which still stands as the APS position, also contains what I consider pompous and asinine advice to all world governments, as if the APS were master of the universe. It is not, and I am embarrassed that our leaders seem to think it is. This is not fun and games, these are serious matters involving vast fractions of our national substance, and the reputation of the Society as a scientific society is at stake.
 3. In the interim the ClimateGate scandal broke into the news, and the machinations of the principal alarmists were revealed to the world. It was a fraud on a scale I have never seen, and I lack the words to describe its enormity. Effect on the APS position: none. None at all. This is not science; other forces are at work.
 4. So a few of us tried to bring science into the act (that is, after all, the alleged and historic purpose of APS), and collected the necessary 200+ signatures to bring to the Council a proposal for a Topical Group on Climate Science, thinking that open discussion of the scientific issues, in the best tradition of physics, would be beneficial to all, and also a contribution to the nation. I might note that it was not easy to collect the signatures, since you denied us the use of the APS membership list. We conformed in every way with the requirements of the APS Constitution, and described in great detail what we had in mind--simply to bring the subject into the open.
 5. To our amazement, Constitution be damned, you declined to accept our petition, but instead used your own control of the mailing list to run a poll on the members' interest in a TG on Climate and the Environment. You did ask the members if they would sign a petition to form a TG on your yet-to-be-defined subject, but provided no petition, and got lots of affirmative responses. (If you had asked about sex you would have gotten more expressions of interest.) There was of course no such petition or proposal, and you have now dropped the Environment part, so the whole matter is moot. (Any lawyer will tell you that you cannot collect signatures on a vague petition, and then fill in whatever you like.) The entire purpose of this exercise was to avoid your constitutional responsibility to take our petition to the Council.
 6. As of now you have formed still another secret and stacked committee to organize your own TG, simply ignoring our lawful petition.
- APS management has gamed the problem from the beginning, to suppress serious conversation about the merits of the climate change claims. Do you wonder that I have lost confidence in the organization?

I do feel the need to add one note, and this is conjecture, since it is always risky to discuss other people's motives. This scheming at APS HQ is so bizarre that there cannot be a simple explanation for it. Some have held that the physicists of today are not as smart as they used to be, but I don't think that is an issue. I think it is the money, exactly what Eisenhower warned about a half-century ago. There are indeed trillions of dollars involved, to say nothing of the fame and glory (and frequent trips to exotic islands) that go with being a member of the club. Your own Physics Department (of which you are chairman) would lose millions a year if the global warming bubble burst. When Penn State absolved Mike Mann of wrongdoing, and the University of East Anglia did the same for Phil Jones, they cannot have been unaware of the financial penalty for doing otherwise. As the old saying goes, you don't have to be a weatherman to know which way the wind is blowing. Since I am no philosopher, I'm not going to explore at just which point enlightened self-interest crosses the line into corruption, but a careful reading of the ClimateGate releases makes it clear that this is not an academic question. I want no part of it, so please accept my resignation. APS no longer represents me, but I hope we are still friends..”

- e Bjorn Lomborg writes on “Climate gate”:

“What the stolen emails revealed was a group of the world’s most influential climatologists arguing, brainstorming, and plotting together to enforce what amounts to a party line on climate change. Data that didn’t support their assumptions about global warming were fudged. Experts who disagreed with their conclusions were denigrated as “idiots” and “garbage.” Peer-reviewed journals that dared to publish contrarian articles were threatened with boycotts. Dissent was stifled, facts were suppressed, scrutiny was blocked, and the free flow of information was choked off.

Predictably, the text of the more than 3,000 purloined emails have been seized on by sceptics of man-made climate change as “proof” that global warming is nothing more than a hoax cooked up by a bunch of pointy-headed intellectuals. And this is the real tragedy of “Climategate.” Global warming is not a hoax, but at a time when opinion polls reveal rising public scepticism about climate change, this unsavoury glimpse of scientists trying to cook the data could be just the excuse too many people are waiting for to tune it all out.

What seems to have motivated the scientists involved in Climategate was the arrogant belief that that the way to save the world was to conceal or misrepresent ambiguous and contradictory findings about global warming that might “confuse” the public. But substituting spin for scientific rigor is a terrible strategy.”

- f Bjorn Lomborg has had an interesting exchange of views in the Investors Business Daily

“Why Can't We Innovate Our Way To A Carbon-Free Energy Future? ⁷⁵

Global warming may not be the apocalyptic problem that climate Cassandras like Al Gore claim, but it is real and we need to do something about it. The question is what.

For 20 years now, Gore and his acolytes have been campaigning single-mindedly for what has become known as the Kyoto approach to global warming — the idea that the only real way to solve the problem is for governments to either force or bribe their citizens to drastically reduce their use of carbon-emitting fuels.

⁷⁵ <http://www.investors.com/NewsAndAnalysis/Article/551367/201010221842/Why-Cant-We-Innovate-Our-Way-To-A-Carbon-Free-Energy-Future-.htm>

This effort, which has dominated mainstream thinking about climate policy for most of the last decade, has led to ... well, actually very little. Despite grandiose pledges such as the 2008 promise by the Group of Eight industrialized nations to work to cut global carbon emissions in half by 2050, no meaningful international climate agreement has ever been reached and greenhouse-gas levels in the atmosphere are higher than they've ever been.

Why so little progress? It's simple. The Kyoto approach proposes a "solution" that is more expensive than the problem it's meant to solve — which is to say that it's no solution at all.

In a 2009 paper for the Copenhagen Consensus Center, climate economist Richard Tol determined that to cut carbon emissions enough to keep average global temperatures from rising any higher than 2 degrees Celsius above pre-industrial levels — another goal endorsed by both Gore and the G8 industrialized nations — we would have to slap a huge tax on carbon-emitting fuels.

When I say huge I mean something on the order of \$4,000 per ton of carbon dioxide — or \$35 per gallon of gasoline — by the end of the century. The impact of a tax of this magnitude would be devastating. According to the leading economic energy models, it could reduce world GDP by a staggering 12.9% in 2100 — the equivalent of \$40 trillion a year.

Now, making climate predictions is an inexact science, but the best estimates are that if we don't do anything about global warming, by 2100 it will be doing roughly \$3 trillion a year in damage to the world. In other words, under the Kyoto approach, we'd be spending \$40 trillion a year to prevent \$3 trillion a year in environmental damage.

Clearly, this doesn't make sense. But neither does it make sense to allow climate change to continue unchecked. The question is whether we can find a cure that isn't worse than the disease. I think we can. Consider why the Kyoto approach would be so expensive. It's that it would require us to drastically reduce our use of carbon-emitting fuels like coal and oil. If we had affordable alternative energy sources ready to pick up the slack, this might not be a problem. But right now at least, we don't.

The fact is that coal, oil and the like are significantly cheaper and more efficient than any of the current green alternatives. This is why, despite all the talk about solar, wind and other green energy sources, fossil fuels still account for the vast majority of the world's energy diet.

Fortunately, there is a smarter way than carbon cuts to deal with global warming. What if, instead of crippling economic growth by trying to make carbon-emitting fuels too expensive to use, we devoted ourselves to making green energy cheaper?

Right now, solar panels are so expensive — about 10 times as much as fossil fuels in terms of cost per unit of energy output — that only well-heeled, well-meaning (and, usually, well-subsidized) Westerners can afford to install them.

But think where we'd be if we could improve the efficiency of solar cells by a factor of 10 — in other words, if we could make them cheaper than fossil fuels. We wouldn't have to force (or subsidize) anyone to stop burning coal and oil. Everyone, including the Chinese and the Indians, would shift to the cheaper and cleaner alternatives.

This is why I have long urged policymakers to significantly increase the amount of money we invest in green energy R&D. As the Breakthrough Institute, a progressive think tank, has pointed out, we didn't promote the invention of computers by taxing slide rules or restricting the supply of typewriters. We did it by investing massively in R&D.

In research published by the Copenhagen Consensus Center, Isabel Galiana and Chris Green of McGill University found that devoting just 0.2% of global gross domestic product — roughly \$100 billion a year — to green energy R&D would produce the kind of game-changing breakthroughs needed to fuel a carbon-free future.

Not only would this be a much less expensive fix than trying to cut carbon emissions, it would also reduce global warming far more quickly. So let's forget about subsidizing inefficient technologies or making fossil fuels too expensive to use. Instead, let's fund the basic research that will make green energy too cheap and easy to resist.

- Lomborg is author of "The Skeptical Environmentalist" and "Cool It," head of the Copenhagen Consensus Center and adjunct professor at Copenhagen Business School. "Cool It," a feature-length documentary about him and his work, opens in theaters throughout North America on Nov. 12.

Disputing The Skeptical Environmentalist

By WILLIE SOON, ROBERT CARTER AND DAVID LAGATES ⁷⁶

This is a response to "Why Can't We Innovate Our Way To A Carbon-Free Energy Future?", a "Perspective" by Bjorn Lomborg that ran in this space a week ago.

Bjorn Lomborg, author of "The Skeptical Environmentalist" and "Cool It," is right about the need to focus on critical health and economic priorities. But he is wrong about human carbon dioxide emissions causing what is now being called "global climate disruption."

By demonizing the gas of life, in league with Al Gore and Bill Gates, Lomborg commits several serious scientific errors. As independent scientists, with broad training in mathematics, physics, chemistry, geology and geography, we know CO₂ is not a pollutant, and the notion of "carbon-free" or "zero-carbon" energy is inherently harmful and anti-scientific.

If nitrogen, oxygen, hydrogen, helium or any other nontoxic gas is pumped into a chamber containing air and a growing plant, the response is barely measurable. By contrast, if more CO₂ is added, the plant and its root system benefit enormously, displaying enhanced growth and more efficient use of available water and nutrients.

Far from having detrimental effects, carbon dioxide has decidedly beneficial impacts on plants, aquatic and terrestrial alike, and a new study connects enhanced plant productivity to greater bird species diversity in China. How, therefore, can anyone conclude that human carbon dioxide is a pollutant that must be eradicated?

These facts erect a formidable barrier for "zero-carbon" advocates. By insisting that no human CO₂ should be emitted, they are promoting continued suboptimal growth of food plant species in the face of impending global food shortages — and poorer functioning and less diversity in the global ecosystem.

Zero-carbon activists respond to these facts by asserting that human CO₂ emissions cause "dangerous global warming." They are wrong about this, too.

If rising atmospheric CO₂ levels drive global temperatures upward, as they insist, why is Earth not suffering from the dangerous "fever" that Al Gore predicted? Instead, after mild warming at the end of the twentieth century, global temperatures have levelled off for the past decade, amid steadily rising carbon dioxide levels.

Lomborg's claim that we need to "cure" so-called "unchecked climate change" is thus fallacious and contradicted by reality. Reducing human CO₂ emissions will likely have no measurable cooling effect on planetary temperatures.

⁷⁶ <http://www.investors.com/NewsAndAnalysis/Article/552190/201010291911/Disputing-The-Skeptical-Environmentalist.htm>

His insistence that we prioritize expenditures is spot-on when applied to genuine environmental and societal problems. However, it is irrelevant when the problems are mythical — or devised to advance ideological agendas. Moreover, even if human impacts on the global climate can actually be measured at some future date, humans currently lack the scientific and engineering understanding and capability to deliberately "manage" Earth's constantly changing climate for the better.

Most certain of all, atmospheric carbon dioxide is not the "climate control knob" that anti-hydrocarbon alarmists assert, and it is irresponsible for Lomborg to claim his socio-political agenda will provide a low-cost solution for the global warming "problem."

The scientific reality is that even the United Nations Intergovernmental Panel on Climate Change has been unable to demonstrate a cause-and-effect scientific connection between rising human CO₂ emissions and dangerous warming. To support global limits on CO₂ emissions, in the absence of real-world data showing clear cause and effect, is scientific and policy incompetence on the highest order.

Imagine a drug company seeking FDA approval for a new drug, based on an analysis that says simply: "Our supercomputers say the drug is safe and effective. We have no clinical data to support this, but can think of no reason actual results would contradict what our computers predict. Moreover, failure to license the drug will be disastrous for patients suffering from the targeted disease." Failing to demand actual dose-and-response studies, before licensing the drug, would be gross negligence on FDA's part.

Between 2007 and 2009, U.S. carbon dioxide emissions dropped approximately 10%, to their lowest level since 1995, largely because of reduced energy consumption during the recession. Similar CO₂ emission reductions occurred in Britain, Germany, France and Japan.

Have their climates gotten better or less dangerous? Are they now a better place, for having a lower intensity carbon energy diet? Have global temperatures been statistically unchanged since 1995 because, or in spite of, Chinese and Indian carbon dioxide emissions increasing far more than the aforementioned countries reduced theirs?

These are practical, not rhetorical questions. As far as we can see, the only direct effect of decreasing CO₂ levels via expensive renewable energy programs has been to cost more American and European jobs than would otherwise have been the case during the global economic recession.

The central issue is not whether rising CO₂ levels will cause a warmer planet. The fundamental concern is whether globally warmer temperatures are factually worse (or better) for human societies — and more (or less) damaging to the environment — than colder temperatures (like those experienced during the ice ages and Little Ice Age).

Bjorn Lomborg, Al Gore and Bill Gates need to consider the likelihood that, driven by changes in solar activity and ocean circulation, Earth will cool significantly over coming decades. Damaging the global economy with ineffectual carbon dioxide controls, in a futile quest to "stop global warming," looks stupid now.

Viewed later, with hindsight, it will be judged outrageously irresponsible.

- Soon studies sun-climate connections at the Harvard-Smithsonian Center for Astrophysics.
- Carter is an emeritus fellow of the Institute of Public Affairs and chief science advisor to the International Climate Science Coalition.
- Legates is a hydroclimatologist at the University of Delaware and serves as the state climatologist of Delaware."

- g amongst other information, some 700 peer-reviewed and published papers questioning the hypothesis of man-made global warming are listed here: ^{77 78}
- h to date ~31,500+ American scientists have signed the following petition, they include 9,000+ holding PhDs in the several climate and climate related topics ⁷⁹:

Petition

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

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

- i of the 2,500 academics named by the IPCC as being supporting referees (not always with their agreement), a large number have been bold enough to jeopardise their livelihoods and to register their dissent. It now turns out that instead of the much vaunted 2,500 scientific referees for the IPCC the active scientific group providing input to the IPCC amounts to about 50 mutually supportive individuals.
- j someone who has a great concern for wildlife, David Bellamy, wrote this in the London Times in 2007 ⁸⁰:

"Am I worried about man-made global warming? The answer is "no" and "yes".

No, because the Hadley Centre for Climate Prediction has come up against an "inconvenient truth". Its research shows that since 1998 the average temperature of the planet has not risen, even though the concentration of carbon dioxide in the atmosphere has continued to increase.

Yes, because the self-proclaimed consensus among scientists has detached itself from the questioning rigours of hard science and become a political cause.

Those of us who dare to question the dogma of the global-warming doomsters who claim that C not only stands for carbon but also for climate catastrophe are vilified as heretics or worse as deniers.

I am happy to be branded a heretic because throughout history heretics have stood up against dogma based on the bigotry of vested interests. But I don't like being smeared as a denier because deniers don't believe in facts.

The truth is that there are no facts that link the concentration of atmospheric carbon dioxide with imminent catastrophic global warming.

Instead of facts, the advocates of man-made climate change trade in future scenarios based on complex and often unreliable computer models.

Name-calling may be acceptable in politics but it should have no place in science; indeed, what is happening smacks of McCarthyism, witch-hunts and all.

Scientific understanding, however, is advanced by robust, reasoned argument based on well-researched data. So I turn to simple sets of data that are already in the public domain.

The last peak global temperatures were in 1998 and 1934 and the troughs of low temperature were around 1910 and 1970. The second dip caused pop science and the media to cry wolf about an impending, devastating Ice Age. Our end was nigh!

⁷⁷ <http://www.populartechnology.net/2009/10/peer-reviewed-papers-supporting.html>

⁷⁸ http://z4.invisionfree.com/Popular_Technology/index.php?showtopic=2050

⁷⁹ <http://www.petitionproject.org/>

⁸⁰ http://www.timesonline.co.uk/tol/comment/columnists/guest_contributors/article2709551.ece

Then, when temperatures took an upward swing in the 1980s, the scaremongers changed their tune. Global warming was the new imminent catastrophe.

But the computer model – called “hockey stick” – that predicted the catastrophe of a frying planet proved to be so bent that it “disappeared” from the Intergovernmental Panel on Climate Change’s armoury of argument in 2007. It was bent because the historical data it used to predict the future dated from only the 1850s, when the world was emerging from the Little Ice Age. Little wonder that temperatures showed an upward trend.

In the Sixties I used to discuss climate change with my undergraduates at Durham University. I would point to the plethora of published scientific evidence that showed the cyclical nature of change – and how, for instance, the latest of a string of ice ages had affected the climate, sea levels and tree lines around the world. Thank goodness the latest crop of glaciers and ice sheets began to wane in earnest about 12,000 years ago; this gave Britain a window of opportunity to lead the industrial revolution.

The Romans grew grapes in York and during the worldwide medieval warm period – when civilizations blossomed across the world – Nordic settlers farmed lowland Greenland (hence its name) and then got wiped out by the Little Ice Age that lasted roughly from the 16th century until about 1850.

Let’s turn to Al Gore’s doom-laden Oscar-winning documentary, *An Inconvenient Truth*. First, what is the point of scaring the families of the world with tales that polar bears are heading for extinction? Last year Mitchell Taylor, of the US National Biological Service, stated that “of the 13 populations of polar bears in Canada, 11 are stable or increasing in number. They are not going extinct, or even appear to be affected at present.”

Why create alarm about a potential increase in the spread of malaria thanks to rising temperatures when this mosquito-borne disease was a major killer of people in Britain and northern Russia throughout the Little Ice Age?

Despite the \$50 billion spent on greenwashing propaganda, the sceptics and their inconvenient questions are beginning to make their presence felt.

A recent survey of Klaus-Martin Schulte, of Kings College Hospital, of all papers on the subject of climate change that were published between 2004 and February of 2007 found that only 7 per cent explicitly endorsed a “so-called consensus” position that man-made carbon dioxide is causing catastrophic global warming. What is more, James Lovelock, the author and green guru, has changed his mind: he recently stated that neither Earth nor the human race is doomed...”

- k Dr. Klaus P. Heiss, Princeton University, NASA, the US Atomic Energy Commission, and the Office of Naval Research, received the NASA Public Service award for unique contributions to the US Space Program, and member of the International Astronautics Academy.

“The 20th Century increased the amount of carbon dioxide in the atmosphere continuously. Man-made CO₂ grew exponentially; however, global temperatures fell between 1940 and 1975, during the time span as the global industrial production almost exploded. Then [temperatures] rose strongly to 1990 and they have since stagnated, with the exception of El-Nino 1998 – at roughly the same level, although CO₂ emissions are still rising,”

“Carbon dioxide is not responsible for the warming of the global climate over the last 150 years. But what then? For more than 90 percent are changes in the Earth-Sun relationship to the climate fluctuations. One is the sun’s activities themselves, such as the recently discovered 22-year-cycles and sunspots,”

“Looking at the climate history of our planet, it is clear to see - and quite reassuring with regard to the possible consequences of global warming as predicted by the IPCC -- that we are now (more precisely, in the last two to three million years ago) in a very cold climate period. Any warming would give us only the best long-term climate of the last 560 million years back. Most professional economic studies indicate that warmer times are generally better.”

- l Dr Leonard F Khilyuk and Professor George V Chilingar (Geologists) University of Southern California. Chilingar has published 61 books and hundreds of articles and he serves as president of the U.S. branch of the Russian Academy of Natural Sciences. 17 of his books have been translated into Russian. In recognition of these contributions, the Russian Academy of Natural Sciences has honoured him as a Knight of Arts and Sciences. From their scientific investigation paper published in ‘Environmental Geology’:

“They repeatedly quantify the effects through the range of processes that alter global temperature and conclude “The scope and extent of these processes are 4–5 orders of magnitude greater than the corresponding anthropogenic impacts on the Earth’s climate (such as heating and emission of the greenhouse gases).”

“the global warming observed during the latest 150 years is just a short episode in the geologic history. The current global warming is most likely a combined effect of increased solar and tectonic activities and cannot be attributed to the increased anthropogenic impact on the atmosphere. Humans may be responsible for less than 0.01°C (of approximately 0.56°C (1°F) total average atmospheric heating during the last century).”

“Any attempts to mitigate undesirable climatic changes using restrictive regulations are condemned to failure, because the global natural forces are at least 4–5 orders of magnitude greater than available human controls.”

- m Vaclav Klaus: former president of the European Union and survivor of the Russian / Communist occupation of his country.

“There are plenty of arguments suggesting that the real threat for human society is not global warming itself. The real threat comes when politicians start manipulating the climate and all of us.

It is necessary to keep stressing several basic facts and arguments that are well-known, but unfortunately largely ignored.

First: the statistically well-documented increase in global temperature has been until now very small and not bigger than the temperature fluctuations in the last centuries and millennia. Throughout the whole 20th century, with all the problematic data collection and adjustments – it was only 0.74 °C. I am surprised again and again that – because of the power of the environmentalist propaganda – people suppose it was much more.

Second: it is undisputed that there has been no statistically significant net global warming in the last twelve to fourteen years. I know that this is not a proof of the impossibility of long-term climate changes but it is a relevant piece of information which should not be ignored or downplayed. New data and new theories are emerging every day and some of them suggest the probability of future cooling, not warming.

Third: the scientific dispute about the causes of the undergoing climate changes is not over, it continues. Despite contrary assertions, there is no scientific consensus about it. What is more and more evident is that CO₂ is losing the position of the main culprit and that its potential impact has already been more or less “consumed.” Simple, mono-causal theory of functional relationship between CO₂ and temperature is evidently untenable. There is absolutely no linearity between CO₂ emissions and temperature.

Fourth: the idea of a static, unchanging climate is, no doubt, foreign to the history of the Earth. The climate has always been changing and will always be.

I am convinced that the impact of the small climate changes we have experienced (and may experience in the foreseeable future) upon human beings and all kinds of their activities is – because of their size – practically negligible. In its model simulations, the IPCC suggests that – because of higher temperatures – the world GDP in the year 2100 will be 2.9% lower than without any warming. I repeat, only 2.9% if we do nothing and let the warming – predicted by the IPCC – continue. The same models suggest that the GDP per capita in the developed countries will be eight times higher than now and in the developing countries about five times higher than that of the developed world today.

These figures are not mine, these are the figures of the leading exponents of the global warming doctrine. The question must be therefore raised: should we drastically limit CO₂ emissions today by 20, 30, 50, or 80% and, thereby, abandon our way of life for the sake of such a small effect considering that the future generations will be far better off than we are today? My answer is that 2.9% of the future GDP is a minor loss. A loss generated by a completely useless fight against global warming, planned by the contemporary global warming alarmists, would be far greater.

Politicians, their bureaucrats as well as many well-meaning individuals who accept the alarmist view of anthropogenic climate change probably hope that – by doing so – they are displaying intelligence, virtue and altruism. Some of them even believe they are saving the Earth. We should tell them that they are merely passive players in the hands of lobbyists, of producers of green technologies, of agro-business firms producing ethanol, of trading firms dealing in carbon emission rights, etc., who hope to make billions at our costs. There is no altruism there. It is a political and business cold-hearted calculation”.

Before concluding, I have to repeat my question: “What is endangered?” My answer is: “our freedom, and our prosperity.”

- n Burt Rutan a world renowned engineer responsible for many practical advances in aeronautics has said the following ^{81 82}:

“Why I studied AGW:

My lifetime work from childhood to the present has been focused on aircraft/spacecraft design and development, with flight-testing being my career specialty. Thus, I have always been challenged to determine the accuracy and meaning of a large amount of disparate data and have often been required to apply those interpretations to development of a product that absolutely must be safe and robust.”

⁸¹ <http://rps3.com/Files/AGW/EngrCritique.AGW-Science.v4.pdf>

⁸² http://rps3.com/Pages/Burt_Rutan_on_Climate_Change.htm

"Four years ago I noticed something troubling about the challenges facing the global warming alarmists. I started my research on anthropogenic (i.e. man-caused) global warming (AGW) because, I found to my surprise, that to claim a catastrophic AGW theory as a "proof", the climate scientists thought they only needed to show that human emissions MIGHT cause a fractional-degree global decadal temperature rise, for an earth that generally varies 20 to 40 deg F every 24 hours and varies as much as 80 to 100 deg F every year – This seemed to be a Herculean task indeed."

"Another thing troubled me - those scientists that claimed that warming is human-caused and catastrophic, tended to be the ones who sought out the media to proclaim their views (an unusual behaviour for scientists immersed in the proper scientific procedure). The larger group of scientists that did not agree tended to be mute. This, of course gave the media and some politicians an impression that there was scientific "consensus", even though it did not exist."

Does not pass sanity check:

"Also, an engineer knows it is wrong to arbitrarily select a single theory (for example, human emissions of greenhouse gas (GHG) effects) as a 'proof cause' of warming. This is especially true when that single-proposed cause is a small effect among the many other possible causes. Pointing to sharp increases of measured temperature and then claiming global warming is due to the miniscule human additions to the planet's atmospheric GHG, while ignoring the fact that cooling periods are also observed while emissions increase, does not pass a sanity check."

"I found that no conclusion on human greenhouse gas (GHG)-blame could be made if one honestly considers the other causes. This is supported by the observation that the climate likely has always had at least today's temperature swings, in the absence of any significant human activity. Also, the GHG warming effect is primarily driven by water vapour, not by CO₂, and the human emissions' portion of atmospheric CO₂ is tiny."

Human-caused GHG seemed, to my engineering mind, impossible:

"The climate scientist's problem of proving his human-caused GHG crisis theory seemed, to my engineering mind, impossible. This is what attracted me to study the raw data and to see if there was fraud in its summary presentations, since the slightest changes in the data, such as a bit of cherry picking tree rings or even an 'innocent' selection of a truncated temperature data set, is all that would be needed to alarm the naive non-scientific audience. My conclusion is that, if the analysis by climate scientists had been required to pass a typical engineering preliminary design review, the crisis theory would have never been passed on to the non-technical audience."

"The entire process of scientific study of the earth's climate data, combined with the computer models developed to predict future climate, is extremely susceptible to abuse - even minor data 'adjustments' or data cherry picking, can completely change the conclusions."

- o With regard to "Climategate", David Henderson formerly head of the OECD economics and statistics department has stated as follows ⁸³:

"The main headings of unprofessional conduct within the process, identified and documented before the recent revelations, are:

Over-reliance on in-group peer review procedures that do not serve as a guarantee of quality and do not ensure due disclosure

Serious and continuing failures of disclosure and archiving in relation to peer-reviewed studies.

⁸³ <http://www.thegwpf.org/opinion-pros-a-cons/541-david-henderson-climategate-is-just-the-tip-of-the-iceberg.html>

Resistance to disclosure of basic information that reputable journals insist on as a precondition for acceptance. (In the CRU emails, participants discuss a range of arguments, pretexts and devices that could be used to fend off disclosure, including the deletion of emails containing material that had been sought under FOI requests, requests made only because authors had not followed accepted scholarly procedures).

Basic errors in the handling of data, through failure to consult or involve trained statisticians.

Failure to take due account of relevant published work documenting these lapses, while disregarding IPCC criteria for inclusion in the review process.

Failure to take due note of comments from dissenting critics who took part in the AR4's preparation.

Resisting the disclosure of professional exchanges within the AR4 drafting process, despite the formal instruction of member governments that the IPCC's proceedings should be "open and transparent".

Failure by the IPCC and its directing circle to acknowledge and remedy these deficiencies.

In the light of IPCC misrepresentation of melting Himalayan glaciers, one could add to the list reliance on worthless (non-peer-reviewed) sources. But mere insistence on peer review would leave in place the other basic flaws.

Comprehensive exposure of these flaws has come from a number of independent commentators. Particular mention should be made of Canadian authors Stephen McIntyre and Ross McKittrick: separately and in joint publications, going back to 2003, they have made an outstanding contribution to public debate. Together with a perceptive British critic, David Holland, they are the subject of unfavourable references in the CRU emails. But their work and that of other critics has been disregarded by governments and commentators in academic journals and the media alike.

The glaring defects in the expert advisory process have gone un-acknowledged and un-remedied by what I call the environmental policy milieu. This high-level failure and the defects themselves have resulted from chronic and pervasive bias. Right from the start, members of the milieu, and of the IPCC's directing circle, have been characterised by what has been well termed "pre-commitment to the urgency of the climate cause". Although the IPCC in particular is now under fire, this is too restricted a focus.

It is true that the panel's work forms the leading element in the official expert advisory process. But the basic problem of unwarranted trust goes further: it extends to the chronically biased treatment of climate change issues by responsible departments and agencies that the panel reports to, and in nationally based organisations that they finance (such as the CRU).

It is not just the environmental policy milieu that is to blame for the mishandling by governments of climate change issues. As a former Treasury official and international civil servant, I have been surprised by the failure of economic departments in OECD member countries to audit the evidence bearing on climate change issues, their uncritical acceptance of the results of a process of inquiry so obviously biased and flawed, and their lack of attention to the criticisms of that process voiced by independent outsiders -- criticisms they ought to have been making themselves.

A similar lack of resource has characterised the research department of the IMF and the economics department of the OECD. There has been a conspicuous failure of due diligence.

The chief moral to be drawn is simple. In an area of policy where so much is at stake, and so much remains uncertain and unsettled, policies should be evolutionary and adaptive, rather than presumptive as they are now; and their evolution should be linked to a process of inquiry and review that is more thorough, balanced, open and objective."

- p Christopher Booker summarised the situation in February 2010 as follows ⁸⁴:

"Since 1988, when the greatest scare the world has seen got under way, hundreds of billions of pounds have been poured into academic research projects designed not to test the CO2 warming thesis but to take it as a given fact, and to use computer models to make its impacts seem as scary as possible. The new global "carbon trading" market, already worth \$126 billion a year, could soon be worth trillions. Governments, including our own, are calling for hundreds of billions more to be chucked into absurd "carbon-saving" energy schemes, with the cost to be met by all of us in soaring taxes and energy bills.

With all this mighty army of gullible politicians, dutiful officials, busy carbon traders, eager "renewables" developers and compliant, funding-hungry academics standing to benefit from the greatest perversion of the principles of true science the world has ever seen, who are we to protest that their emperor has no clothes? (How apt that that fairy tale should have been written in Copenhagen.) Let all that fluffy white "global warming" continue to fall from the skies, while people shiver in homes that, increasingly, they will find they can no longer afford to heat. We have called into being a true Frankenstein's monster. It will take a mighty long time to cut it down to size."

- q The Overall conclusions of an Independent Summary for Policymakers (ISPM) for the IPCC Fourth Assessment Report prepared in 2007, coordinated by Ross McKittrick, Ph.D ⁸⁵. The following concluding statement is not in the Fourth Assessment Report, but was agreed upon by the ISPM writers based on their review of the current evidence.

"The Earth's climate is an extremely complex system and we must not understate the difficulties involved in analyzing it. Despite the many data limitations and uncertainties, knowledge of the climate system continues to advance based on improved and expanding data sets and improved understanding of meteorological and oceanographic mechanisms.

The climate in most places has undergone minor changes over the past 200 years, and the land-based surface temperature record of the past 100 years exhibits warming trends in many places. Measurement problems, including uneven sampling, missing data and local land-use changes, make interpretation of these trends difficult. Other, more stable data sets, such as satellite, radiosonde and ocean temperatures yield smaller warming trends. The actual climate change in many locations has been relatively small and within the range of known natural variability. There is no compelling evidence that dangerous or unprecedented changes are underway.

The available data over the past century can be interpreted within the framework of a variety of hypotheses as to cause and mechanisms for the measured changes. The hypothesis that greenhouse gas emissions have produced or are capable of producing a significant warming of the Earth's climate since the start of the industrial era is credible, and merits continued attention. However, the hypothesis cannot be proven by formal theoretical arguments, and the available data allow the hypothesis to be credibly disputed.

⁸⁴ <http://www.telegraph.co.uk/comment/columnists/christopherbooker/7332803/A-perfect-storm-is-brewing-for-the-IPCC.html>

⁸⁵ <http://www.uoguelph.ca/~rmckitri/research/ispm.html>

Arguments for the hypothesis rely on computer simulations, which can never be decisive as supporting evidence. The computer models in use are not, by necessity, direct calculations of all basic physics but rely upon empirical approximations for many of the smaller scale processes of the oceans and atmosphere. They are tuned to produce a credible simulation of current global climate statistics, but this does not guarantee reliability in future climate regimes. And there are enough degrees of freedom in tuneable models that simulations cannot serve as supporting evidence for any one tuning scheme, such as that associated with a strong effect from greenhouse gases.

There is no evidence provided by the IPCC in its Fourth Assessment Report that the uncertainty can be formally resolved from first principles, statistical hypothesis testing or modelling exercises. Consequently, there will remain an unavoidable element of uncertainty as to the extent that humans are contributing to future climate change, and indeed whether or not such change is a good or bad thing.”

- r Michael Crichton Science writer summed up the syndrome of environmentalism as being “One of the most powerful religions in the Western world”⁸⁶:

“Today, one of the most powerful religions in the Western world is environmentalism. Environmentalism seems to be the religion of choice for urban atheists. Why do I say it’s a religion? Well, just look at the beliefs. If you look carefully, you see that environmentalism is in fact a perfect 21st century remapping of traditional Judeo-Christian beliefs. There’s an initial Eden, a paradise, a state of grace and unity with nature, there’s a fall from grace into a state of pollution as a result of eating from the tree of knowledge, and as a result of our actions there is a judgment day coming for all of us. We are all energy sinners, doomed to die, unless we seek salvation, which is now called sustainability. Sustainability is salvation in the church of environment. Just as organic food is its communion, that pesticide-free wafer that the right people with the right beliefs, imbibe.

Increasingly it seems facts aren’t necessary, because the tenets of environmentalism are all about belief.”

Bizarre, is it not, in an age when we live longer, healthier, less polluted lives than former generations, “we the people” have become wracked with angst, perpetually ill at ease, obsessed with personal welfare and health and one way or another doomed ever to be in fear of the weather gods? Even though alleged ‘climate experts’ cannot tell us with confidence what the weather will be next week, they can confidently predict what it will be like in 50 years time – based on computer guesswork.

- s Recommendations of the Professor E Wegman report to Congress in 2006 investigating Dr Mann’s “Hockey stick”:⁸⁷

Recommendation 1. Especially when massive amounts of public monies and human lives are at stake, academic work should have a more intense level of scrutiny and review. It is especially the case that authors of policy-related documents like the IPCC report, *Climate Change 2001: The Scientific Basis*, should not be the same people as those that constructed the academic papers.

⁸⁶ <http://ideas.blogs.nytimes.com/2010/01/14/environmentalism-as-religion-redux/>
⁸⁷ www.uoguelph.ca/~rmckitri/research/WegmanReport.pdf

Recommendation 2. We believe that federally funded research agencies should develop a more comprehensive and concise policy on disclosure. All of us writing this report have been federally funded. Our experience with funding agencies has been that they do not in general articulate clear guidelines to the investigators as to what must be disclosed. Federally funded work including code should be made available to other researchers upon reasonable request, especially if the intellectual property has no commercial value. Some consideration should be granted to data collectors to have exclusive use of their data for one or two years, prior to publication. But data collected under federal support should be made publicly available.

Recommendation 3. With clinical trials for drugs and devices to be approved for human use by the FDA, review and consultation with statisticians is expected. Indeed, it is standard practice to include statisticians in the application-for-approval process. We judge this to be a good policy when public health and also when substantial amounts of monies are involved, for example, when there are major policy decisions to be made based on statistical assessments. In such cases, evaluation by statisticians should be standard practice. This evaluation phase should be a mandatory part of all grant applications and funded accordingly.

Recommendation 4. Emphasis should be placed on the Federal funding of research related to fundamental understanding of the mechanisms of climate change. Funding should focus on interdisciplinary teams and avoid narrowly focused discipline research.

t the British High Court identified, in a lengthy hearing calling a wide range of witnesses under, oath eleven inaccuracies in Al Gore's 'An Inconvenient Truth' ⁸⁸.

"In order for the film to be shown, the Government have been forced to amend their Guidance Notes to Teachers to make clear that:

- The Film is a political work and promotes only one side of the argument.
- If teachers present the Film without making this plain they may be in breach of section 406 of the Education Act 1996 and guilty of political indoctrination.
- Eleven inaccuracies have to be specifically drawn to the attention of school children.

Al Gore's response to these findings was that "the ruling was in favour of screening the film in schools".

Specifically the judgment states that the inaccuracies in the film are as follows:

- The film claims that melting snows on Mount Kilimanjaro evidence global warming. The Government's expert was forced to concede that this is not correct.
- The film suggests that evidence from ice cores proves that rising CO₂ causes temperature increases over 650,000 years. The Court found that the film was misleading: over that period the rises in CO₂ lagged behind the temperature rises by 800-2000 years.
- The film uses emotive images of Hurricane Katrina and suggests that this has been caused by global warming. The Government's expert had to accept that it was "not possible" to attribute one-off events to global warming.
- The film shows the drying up of Lake Chad and claims that this was caused by global warming. The Government's expert had to accept that this was not the case.
- The film claims that a study showed that polar bears had drowned due to disappearing arctic ice. It turned out that Mr Gore had misread the study: in fact four polar bears drowned and this was because of a particularly violent storm.

⁸⁸ <http://www.telegraph.co.uk/earth/earthnews/3310137/Al-Gores-nine-Inconvenient-Untruths.html>

- *The film threatens that global warming could stop the Gulf Stream throwing Europe into an ice age: the Claimant's evidence was that this was a scientific impossibility.*
- *The film blames global warming for species losses including coral reef bleaching. The Government could not find any evidence to support this claim.*
- *The film suggests that the Greenland ice covering could melt causing sea levels to rise dangerously. The evidence is that Greenland will not melt for millennia.*
- *The film suggests that the Antarctic ice covering is melting, the evidence was that it is in fact increasing.*
- *The film suggests that sea levels could rise by 7m causing the displacement of millions of people. In fact the evidence is that sea levels are expected to rise by about 40cm over the next hundred years and that there is no such threat of massive migration.*
- *The film claims that rising sea levels has caused the evacuation of certain Pacific islands to New Zealand. The Government are unable to substantiate this and the Court observed that this appears to be a false claim.*

The film has been critically reviewed and many further scientific errors exposed ⁸⁹.

Rather than opening up the discussion to critical scientific method the “Believers” get more hysterical and shrill in their suggested catastrophes, opposition and individual attacks. That alone would seem to be reasonable evidence that the “Believers” really know their position is not sound.

The list of objectors to the IPCC view grows daily ⁹⁰.

The list of erroneous claims and political misrepresentations in the 2007 IPCC report, often included directly from green propaganda sources such as Greenpeace and the World Wildlife Fund, is growing and includes:

- Himalayan Glaciers will not disappear by 2035
- massive storms are not increasing in frequency and insured losses are not escalating
- sea levels are not increasing dramatically
- the Amazon rain forest is only decreasing because of man's logging intervention
- surface temperature records have been systematically adjusted upwards in the present or downwards in the past to emphasise Global Warming
- the “Hockey Stick” has been proven to be a fraud, etcetera, etcetera.

That outcome has been assisted by the wide publication of correspondence, data and computer code from the University of East Anglia Climatic Research Unit group of Global Warming Alarmists, in November 2009. It is now clear that the Unit acted illegally in ignoring Freedom of Information requests and that Michael Mann, the originator of the “Hockey Stick” is being investigated for fraudulent use of government grant funding in the USA.

⁸⁹ <http://scienceandpublicpolicy.org/monckton/goreerrors.html>

⁹⁰ http://www.economist.com/blogs/newsbook/2010/07/bias_and_ipcc_report?source=features_box_main

Conclusion

Especially since the disclosures of Climategate, ever greater doubt now exists on the accuracy and scientific methods used to justify and support the whole the IPCC edifice and for the claims being made about the catastrophic effects of Man-made Global Warming.

Whatever the Man-made Global Warming Believers may say, there is no scientific consensus that Man-made Global Warming is real. It is entirely unacceptable for the current establishment to simply state that the consensus exists and expects that alone to be accepted as gospel truth and as the foundation of its vastly damaging policies.

The Man-made Global Warming hypothesis has become a religion^{91 92 93} for the Green movements rather than the search for scientific truth. The eco religion seems to pander to an extreme view wishing to reduce the developed world to a pre-industrial existence. This would be the inevitable consequences of reducing CO₂ emissions by the massive percentages anticipated by them and as being attempted to be set as targets by a large but diminishing number of Western. For example, the damaging and extremely costly policies now enshrined by the last New Labour government but with very little opposition dissent in the UK Climate Change Bill ⁹⁴.

However the additional secondary agendas seem to be:

- a concerted effort to institute some sort of global government to control the use of CO₂ emitting fossil fuels.
- the creation of a massive tradable and lucrative market in “Carbon Credits”, an idea originating from ENRON (good for bankers)
- the ability of the governments to raise taxes with some sort of feel good factor, (saving the planet).
- a massive transfer of resources to underdeveloped countries.

With the huge financial damage that the Man-made Global Warming Believers are proposing to inflict, the world, especially the Western World, deserves very detailed and close examination of the basis on which it is being undertaken. No commercial organisation would ever make such an investment on the basis of such questionable evidence and what has become religious dogma.

So what is really needed is a comprehensive, independent and exhaustive examination of the whole of the Man-made Global Warming assertion, in other words truly exhaustive and open-minded DUE DILIGENCE.

Some of the main questions that need to be addressed have been have been noted and commented upon above.

It is to be hoped that in due course reason will prevail in the light of the restoration of real scientific method and growing burden of real world evidence.

There are some glimmers of hope. The Chinese are now publicly questioning the role of Man-made CO₂ in determining climate effects. The Indian government is setting up its own climate institute to re-examine the many dubious claims and policy recommendations made by the IPCC.

These two nations alone represent a huge proportion of the world population and China has now surpassed the USA as the world's largest CO₂ producer. And they are certainly not about to curtail their national development in the name of a religious belief that they do not adhere to.

Other developing nations such as Russia, South Africa and Brazil are equally doubtful and it seems will resist attempts to limit their development, thus effectively negating the effects of any measures, however drastic, taken in Europe and the USA.

⁹¹ <http://www.appinsys.com/globalwarming/EcoReligion.htm>

⁹² <http://www.numberwatch.co.uk/religion.htm>

⁹³ <http://www.thenewatlantis.com/publications/environmentalism-as-religion>

⁹⁴ <http://www.defra.gov.uk/environment/climate/legislation/>

As global temperatures have remained steady or have even cooled in the last 10 - 15 years, it would seem that the world should fear the real and detrimental effects global cooling rather than setting policy by being hysterical about non-existent warming.

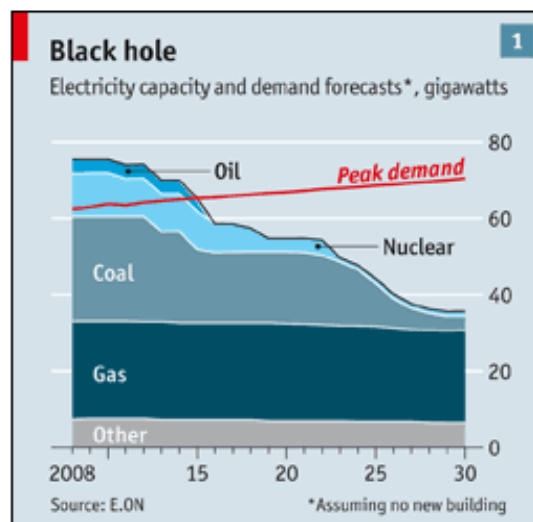
For example the “Warmist” projections made by the UK Metrological Office in 2009, have already left the UK local and transport authorities absolutely unprepared and unable to cope with the significant cold spell last Winter and in the process lead to many additional deaths.

But much worse than that, the malign effects on national policy achieved by the Green movements over recent decades is resulting in the dereliction of duty by governments in not securing future energy supply for their citizens.

This is a direct result of insisting on and subsidising the country’s dependence on essentially unreliable, small-scale renewable energy sources, such as wind, solar and wave power ⁹⁵.

Those governments that have bought into the Green Religion, (such as New Labour and now sadly the Coalition in the UK), have left and are leaving their countries totally unprepared for their energy future.

They have thus recklessly damaged their future international competitiveness: or to put it rather more simply the lights in the UK are likely to go out in about 2015.



This is the triumph of the Green movements in the UK, and it is frighteningly clear to see in the above graph from the Economist.

Indeed, if CO₂ emissions are a real problem, (and it is a very big “if”), Green objections to Nuclear Energy will bear a very heavy responsibility for the damage they have done to the future of Man-kind on our planet. Without the malign influence of the “well-meaning” green movements, something might have been done to ameliorate the planet’s position as far as its CO₂ emissions were concerned.

There may be some chinks in that armour too. Some maturing but still prominent Green activists, (including Lynas, Moore and Brand), much to the distress and anger of their army of eco-religious supporters, have recently admitted that their movement definitely got it wrong ⁹⁶ about:

- Nuclear power
- DDT and other pesticides
- GM crops.

However these dissenters still considered man-made CO₂ to be a catastrophic threat. Maybe the more rational wing of the Green movement will row back from Catastrophic Man-made Global Warming assertion as well. It will take some time.

⁹⁵ <http://www.withouthotair.com/>

⁹⁶ <http://www.channel4.com/programmes/what-the-green-movement-got-wrong>