

Falsification/Manipulation

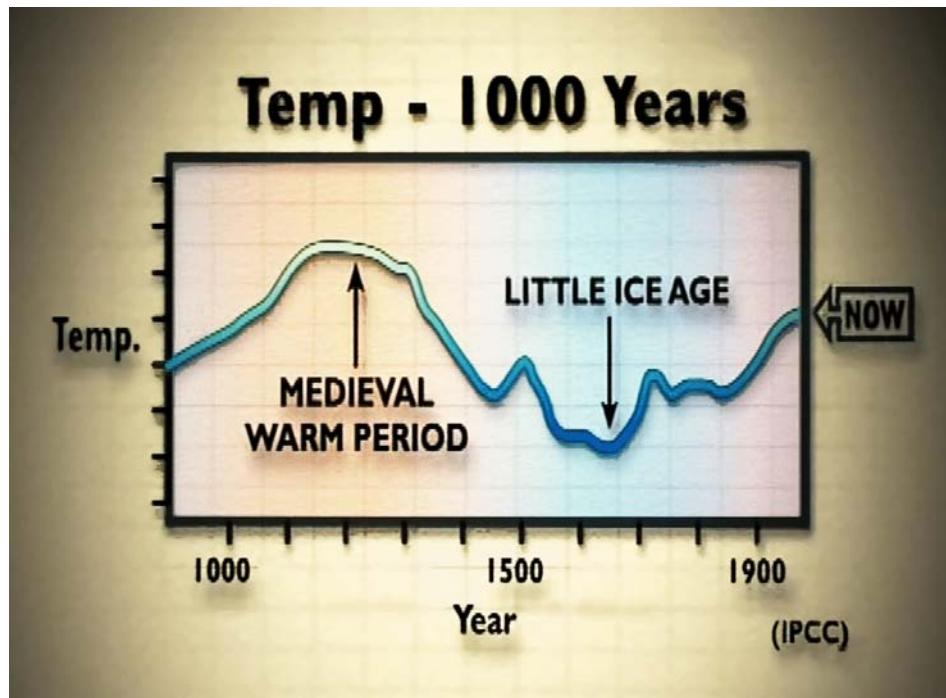
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1. Falsification/Manipulation of Graphs

[Narrator] If we look back further in time, before the Little Ice Age, we find a balmy golden era, when temperatures were higher than they are today ...

[Comment 37: Cut to the following graph of temperature over the past 1000 years attributed by the programme to "IPCC":



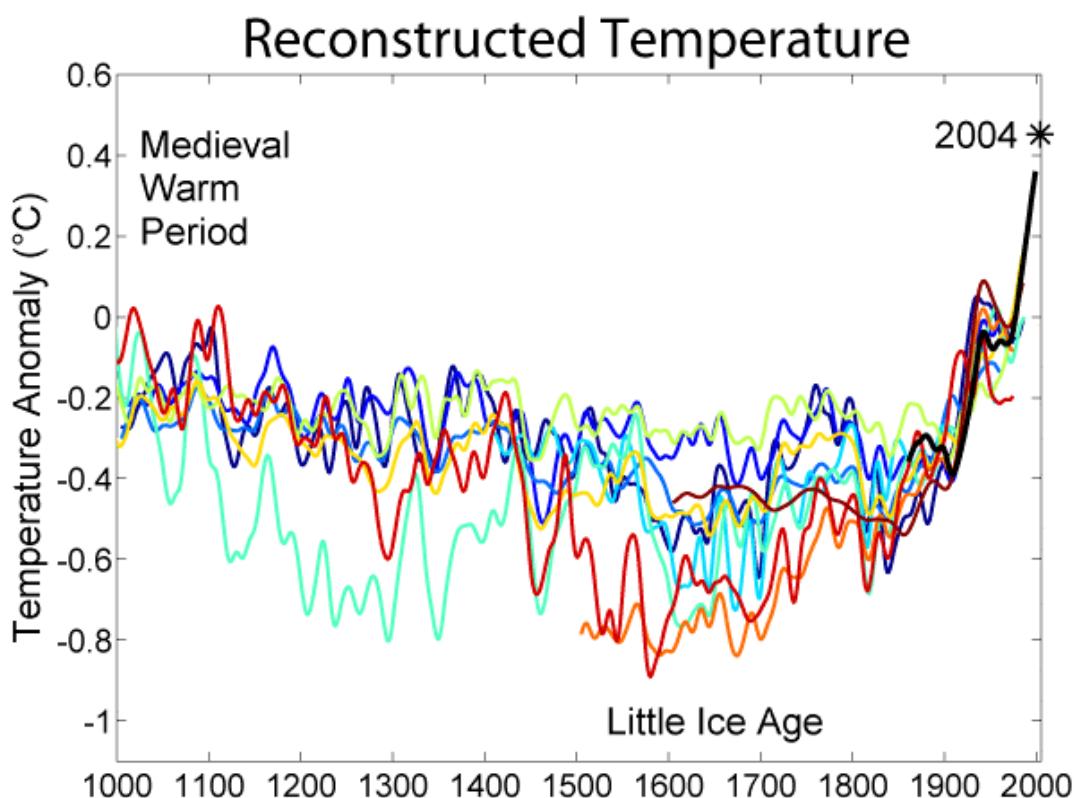
In fact this graph appeared in the 1990 IPCC report (Fig. 7.1(c), p202, see <http://tinyurl.com/ypvurw>), and was described there as “a schematic diagram”, and not as a plot of real data; and for which the report cautions that “it is still not clear whether all of the fluctuations indicated are truly global.” Most importantly, the above graph covers the period 900 AD to 1975, just before the start of by far the strongest and most sustained period warming in the 20th century. So by marking the end point of the above graph as “Now” rather than “1975” (see above), the programme makers misled the audience.

Up to 1990, palaeoclimatic reconstructions of past global temperatures were largely qualitative rather than quantitative; and the documentary did not mention the huge amount of more up-to-date evidence based on the considerable palaeodata that has been obtained and analysed since the 1990 IPCC report was published; data which led the 2001 and 2007 IPCC reports to conclude that recent average Northern Hemisphere temperatures are likely to have been the highest in at least the past 1000 years (in the case of the 2001 report), and in at least the past 1300 years (in the case of the 2007 report). See the 2001 IPCC Third Assessment Report at <http://tinyurl.com/32y43n>, the 2007 IPCC Summary for Policy Makers at <http://tinyurl.com/2xl4c6>, and Chapter 6 of the full report at <http://tinyurl.com/3dwapw>.

See also the recent *Juckes et al 2006 paper Millennial temperature reconstruction intercomparison and evaluation* at: <http://tinyurl.com/32guez> (PDF) which reviewed all of the recent literature on palaeoclimatic reconstructions of the temperature history of the last millennium, and which states in its conclusion:

The IPCC2001 conclusion that temperatures of the past millennium are unlikely to have been as warm, at any time prior to the 20th century, as the last decades of the 20th century is supported by subsequent research and by the results obtained here. Papers which claim to refute the IPCC2001 conclusion on the climate of the past millennium have been reviewed and some are found to contain serious flaws. Our study corroborates the IPCC2001 conclusions.

Compare the graph used in the programme with the following graph from the *Global Warming Art* website at: <http://tinyurl.com/2ugjbm>, which superimposes the results of 10 peer-reviewed studies by separate groups of climate scientists, carried out between 1998 and 2005, of temperatures over the past 1000 years. Although each of the temperature reconstructions below are different, due to the differing calibration methods and data used, they all clearly show that late 20th century temperatures to have been the highest in that 1000 year period:



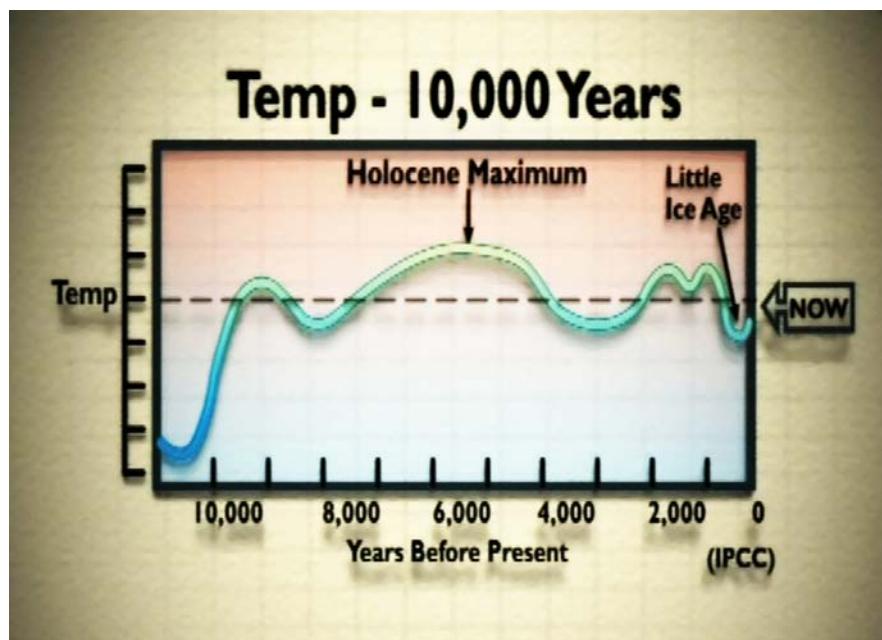
Thus by showing a graph that was a schematic and was not based on data, produced in 1990 when quantitative palaeoclimatology based on real data was in its infancy; and by ignoring all of the peer reviewed research that has been done since then, the programme makers misled the public about the science of the reconstruction of past climate.]

(In breach of the 2003 Communications Act Section 265, Ofcom 5.4, 5.5, 5.7, 5.11, 5.12)

[Narrator]

Going back in time further still, before the Medieval Warm Period, we find more warm spells, including a very prolonged period during the bronze age known to geologists as the Holocene Maximum, when temperatures were significantly higher than they are now for more than 3 millennia.

[Comment 39: Cut to graph showing the temperature over the past 10,000 years:



Like the previous graph (Comment 37, page 1), this is a “schematic diagram”, not a plot of real data, from the 1990 IPCC report (Fig 7.1(b), p202, see <http://tinyurl.com/ypvurw>). The dashed line actually represents temperatures at the *beginning* of the 20th century, and the graph ends before the large warming of the past century, so the “Now” label is highly misleading.

In terms of the global average, Holocene Maximum temperatures are not known very well, but best estimates suggest they were no warmer than now and only 0.5 °C warmer than in the mid-20th century, although there are considerable uncertainties (see Wikipedia: <http://tinyurl.com/3bj7tj>). Thus the programme misleads by asserting facts where there is uncertainty, and where the best guess would be contrary to the programme’s assertion. Also, by showing the above schematic, which was produced in 1990, and was not based on real data, and ignoring all of the quantitative research that has been done since then, the programme makers misled the public about the current state of scientific knowledge.

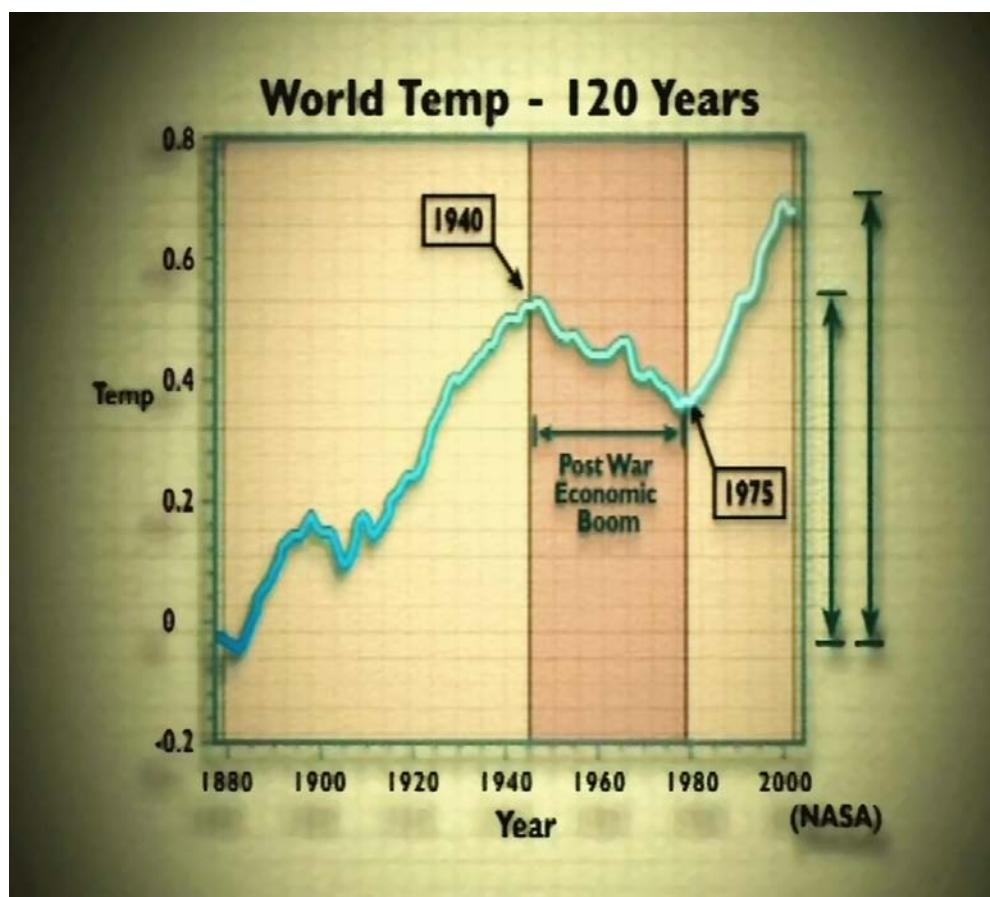
Important context is also missing, in that the warming during the “Holocene Maximum” can be explained by changes in the Earth’s orbit (the Milankovitch cycles: see <http://tinyurl.com/hh2ea> and <http://tinyurl.com/293grf> [NOAA – the National Oceanic and Atmospheric Administration]), which also controlled the ice ages, but which are not relevant to the present warming.

Using the “significantly” warmer Holocene Maximum period to suggest that we should not be concerned with warming also neglects the fact that the ecosystems

and economies of today are not the same as those of 7-8000 years ago: the global population is much larger and societies live in built-up environments. For an assessment of how future warming is likely to impact economies and ecosystems during the 21st century, see the *IPCC Third Assessment Report on Impacts, Adaptation and Vulnerability* at <http://tinyurl.com/hu7dr>.]

(In breach of the 2003 *Communications Act* Section 265, Ofcom 5.4, 5.5, 5.7, 5.11, 5.12)

[Comment 42: At this point, the original transmission (on *Channel 4*, 8 March, 2007) showed the following graph of world temperatures, which it attributed to “NASA”, with a time axis running from around 1875 to 2005, and two arrows to illustrate the claim that “most of the rise in temperature [since the mid-19th century] occurred before 1940”:



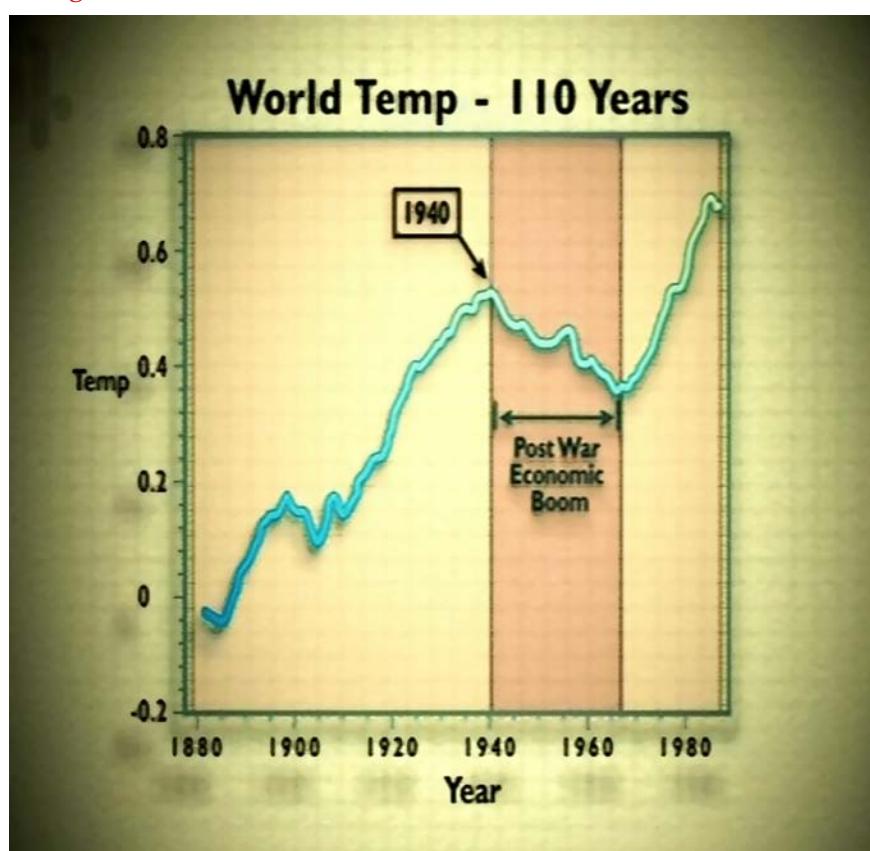
An investigation by *The Independent* newspaper (see <http://tinyurl.com/2wrm7u>) revealed that the graph used by the *Channel 4* programme was taken directly from a non-peer-reviewed paper by Arthur Robinson and Zachary Robinson of the *Oregon Institute of Science and Medicine* (see page 154 [of the full complaint]), with co-authors Sallie Baliunas and Dr Willie Soon (see page 138 [of the full complaint]) of the *George C. Marshall Institute* (see page 149 [of the full complaint]).

The graph it was based on was *Figure 12* of the paper, *Environmental Effects of Increased Atmospheric Carbon Dioxide*, which is at <http://tinyurl.com/28gzs3>[Nt2]. This paper, which concluded that “industrial activities can be counted on to encourage

greater species biodiversity and a greener planet”, had formed part of the heavily-criticized “Oregon Petition”, a bulk mailing to thousands of scientists to petition against the *Kyoto Protocol* (see *Science* magazine: <http://tinyurl.com/2s2rho>, and the *Center for Media and Democracy*: <http://tinyurl.com/qxxcq>).

However, the original *Robinson et al* graph ended in the mid-1980s. The documentary re-labelled the time axis to give the incorrect impression that the graph extended to the present day, thus leaving out the past 20 years of unprecedented global warming while apparently intentionally deceiving viewers into thinking that this period had been included.

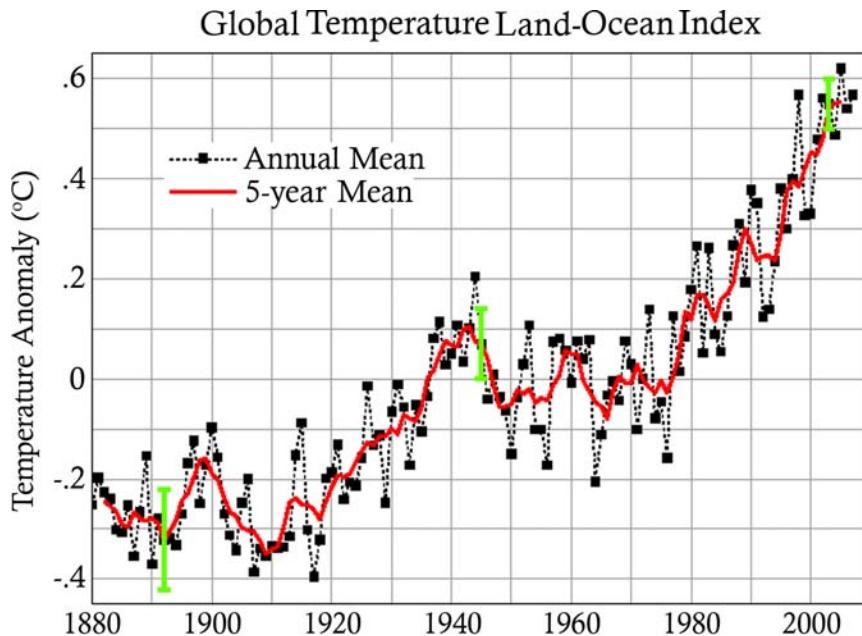
In the repeat (shown on *More 4*, March 12, 2007) the time axis had been corrected, and the arrows and attribution to NASA removed, although no other attribution was given:



However, the graph remained highly misleading, since it still did not show the temperature rise over the past 20 years, despite the unchanged and false narration claiming that “most of the rise [in temperature in the 20th century] occurred before 1940”, and despite the narration continuing to claim that there had been 40 years of cooling, when even its own revised graph only showed 25 years of cooling.

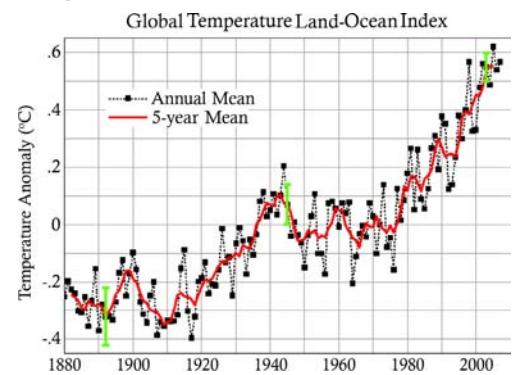
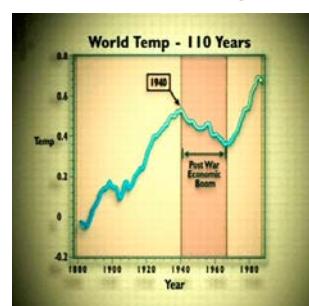
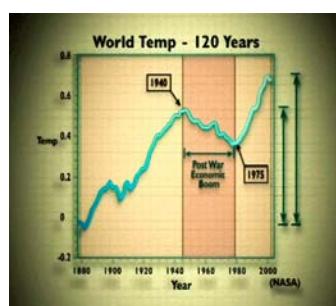
Extracts from Ofcom Complaint, by Category: Falsification/Manipulation
 1. Falsification/Manipulation of Graphs

In fact, the real NASA data is readily available on NASA's own website at <http://tinyurl.com/2fq44q> and is shown below:



The NASA graph directly contradicts the programme's assertion that "most of the rise ... occurred before 1940". It also shows that the extent of the mid-century cooling is greatly exaggerated in both of the graphs shown in the documentary. Finally, the claim made by the narrator that the temperature fell for four decades is only supported by the earlier, falsified graph, and is contradicted both by the corrected graph and by the NASA data. The conclusions stated in the documentary about temperatures in the 20th century are thus based on incomplete, old and apparently intentionally falsified data, and were used to mislead the public regarding the status of current scientific knowledge.

For comparison purposes, here are the three graphs alongside each other:



Graph broadcast 08 March, 2007

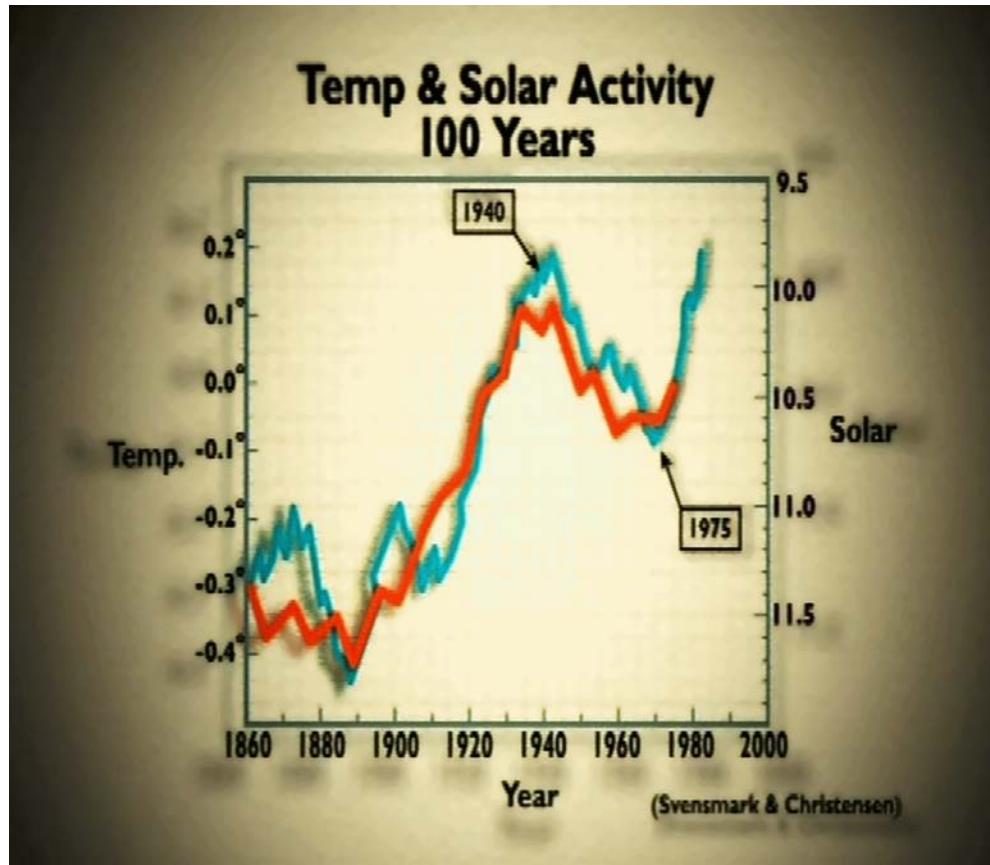
Graph broadcast 12 March, 2007

The accurate graph on NASA's website

(In breach of the 2003 Communications Act Section 265, Ofcom 5.4, 5.5, 5.7)

[Narrator] In 1991, senior scientists at the Danish Meteorological Institute decided to compile a record of sunspots in the 20th century and compare it with the temperature record.

[Comment 59: A graph is shown plotting temperature (blue line) against “solar” (red line):



Although the graph is attributed by the *Channel 4* programme to “Svensmark and Christensen” it was first published in a paper by Friis-Christensen and Lassen, *Science* 254, 698 (1991), see <http://tinyurl.com/39dyse>.

The number of sunspots change in a cyclical way over a time period of about 11 years, but this “solar cycle length” varies from cycle to cycle. The documentary reports that Friis-Christensen and Lassen found a good correlation between solar cycle length and temperature. However, the documentary does not mention that after corrections and updates to their original paper the correlation after 1975 disappeared (see for instance Kristjánsson, 2001, <http://tinyurl.com/yvc8zu>, PDF); with the temperature rapidly increasing while the solar curve remains flat. **The solar (red) line in the documentary ends in 1975 before this break-down in the correlation began, presenting a deeply misleading picture.**

These later corrections in the scientific literature are summarized by Damon and Laut in a paper in EOS, Transactions American Geophysical Union, 2004 (abstract at <http://tinyurl.com/2m5jwk>, full version at: <http://tinyurl.com/q7wg5>, PDF). Damon and Laut summarise the findings of a number of peer reviewed papers, which show:

... that the apparent strong correlations displayed on these graphs have been obtained by incorrect handling of the physical data. The graphs are still widely referred to in the literature, and their misleading character has not yet been generally recognized.

Below, we show Damon and Laut's comparison of (a) the original Friis-Christensen and Lassen data from 1991 which was used in the documentary, (b) an updated version of the solar data from 2000, and (c) the corrected data. As a result of the correction, the apparent correlation between sunspot cycle length and terrestrial temperature disappears after 1960. This was not identified by the film makers.

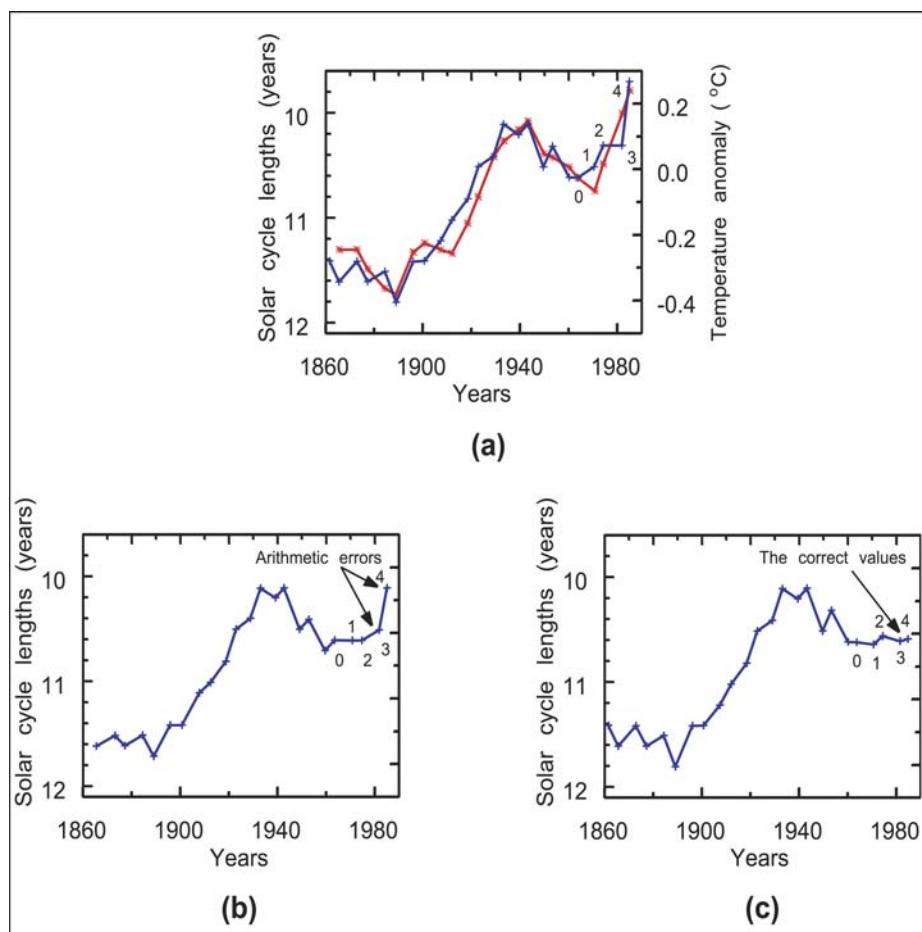


Fig. 1. (a) Solar cycle lengths (blue plus signs) and terrestrial temperatures (red asterisks) as presented by Friis-Christensen and Lassen [1991]. All points on the solar curve up to the point marked zero represent 1,2,2,2,1-filtered values, the points marked 1 and 2 represent values that are only partially filtered; and the points marked 3 and 4 represent values that are not filtered at all. (b) An update as presented by Lassen and Friis-Christensen [2000]. The upward bend of points 3 and 4, corresponding to the recent global warming, is the result of some trivial arithmetic error. (c) The correct update.

In 2000, Lassen and Friis-Christensen replied to an earlier paper co-authored by Laut, and defended their earlier findings, reiterating that they considered the correlation to have been significant between 1570 and 1970, and making clear that **this did not exclude any other climate forcing agents, “including the effect of man-made greenhouse gases, in particular, after 1970.”** (<http://tinyurl.com/39hka9>). Thus Friis-Christensen and Lassen have themselves specifically stated

that the correlation only exists up to 1970. This point, which would have vastly changed the message presented by the *Channel 4* programme, was omitted, and in omitting it, the public have been greatly misled.

On April 27, 2007 Friis-Christensen issued a joint statement with one of the lead authors of this complaint, Nathan Rive, stating specifically that Friis-Christensen's views had been seriously misrepresented by the *Channel 4* programme – see **Comment 60** below.]

(In breach of the 2003 *Communications Act* Section 265, Ofcom 5.4, 5.5, 5.7, 7.2, 7.3, 7.6, 7.9)

[Narrator] What they found was an incredibly close correlation between what the sun was doing and changes in temperature on earth. Solar activity, they found, rose sharply to 1940, fell back for four decades until the 1970s, and then rose again after that.

[Dr Eigil Friis-Christensen, Director, Danish National Space Centre] When we saw this correlation between temperature and solar activity or sunspot cyclings, then people said to us: "okay it can be just a coincidence." So how can we prove that it's not just a coincidence? Well one obvious thing is to have a longer time series, or a different time series. Then we went back in time.

[Comment 60: Cut to a graph comparing temperature and solar cycle length since 1540, which is (mostly) taken from Friis-Christensen and Lassen, *J. Atmos. Terr. Phys.* 57, 835 (1995). As with their 1991 paper, the documentary fails to mention that the paper's results have been strongly disputed in the scientific literature (see Peter Laut, 2003, <http://tinyurl.com/2ule4h>, PDF, and Damon and Laut, 2004, <http://tinyurl.com/2cwntm>, PDF).

But much more importantly, the original graph has been falsified by the film makers. The original Lassen and Friis-Christensen graph shows a gap in the sunspot cycle length curve (line dotted with circles) for the period 1600 to 1700. This is because this period was the Maunder Minimum (<http://tinyurl.com/p479h>), a period when there were few sunspots. It's not possible to measure the sunspot cycle length when there are no sunspots. The documentary makers presented a graph, however, where this gap had been filled with the temperature data, giving the impression of perfect correlation during this period. Here are the two graphs side by side:

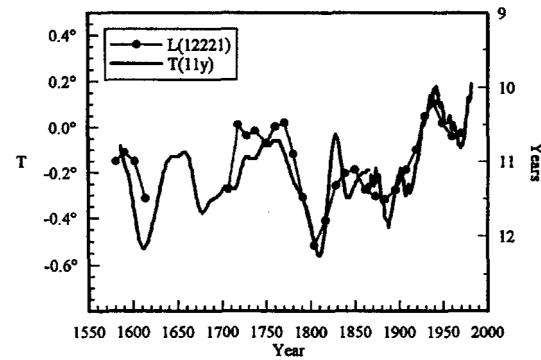
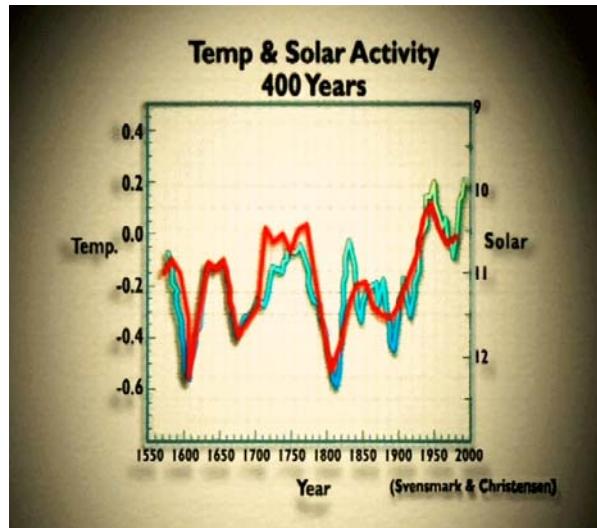


Fig. 6. Eleven-year running average of annual mean values of the northern hemisphere land air temperature 1579–1860 relative to the average temperature 1881–1975, reconstructed by Groves and Landsberg (1979) together with corresponding values for 1851–1987 relative to 1951–1980 from Jones *et al.* (1986) and Jones (1988). Also plotted is the filtered value (1-2-2-1 filter) of the sunspot cycle length.

On April 27, 2007 Friis-Christensen issued a joint statement with one of the lead authors of this complaint, Nathan Rive (see <http://tinyurl.com/yvmatf>), which states:

We have concerns regarding the use of a graph featured in the documentary titled 'Temp & Solar Activity 400 Years'. Firstly, we have reason to believe that parts of the graph were made up of fabricated data that were presented as genuine. The inclusion of the artificial data is both misleading and pointless. Secondly, although the narrator commentary during the presentation of the graph is consistent with the conclusions of the paper from which the figure originates, it incorrectly rules out a contribution by anthropogenic greenhouse gasses to 20th century global warming.

Rive and Friis-Christensen go on to state:

The audience is told that the L+FC results demonstrate (a) the sun drove temperature changes over the past 400 years, and (b) no other agents were involved in changing the climate in that time. This is an overstatement that is not supported by the graph, interview statements by Friis-Christensen in the program, nor any related scientific literature. Although solar variations seem to be a major cause of climate variations on centennial and millennial time scales in the pre-industrial era (see for example Bond *et al.*, 2001 [Science, 294: 2130-6]), there are certainly other natural sources of climate change. For the industrialised period, the

L+FC (and other) results do not exclude an effect from man-made greenhouse gases.

Thus Friis-Christensen has stated quite clearly and publicly that not only was his published data falsified by the film-maker, but that his views were knowingly and fundamentally misrepresented by the film.]

(In breach of the 2003 *Communications Act* Section 265, Ofcom 5.7, 7.2, 7.3, 7.6, 7.9)

2. Falsification/Manipulation of WHO Figures

[Cut to scene in small mud hut somewhere in Kenya]

[Narrator] Anne Mougella is about to cook a meal for her children. She is one of the two billion people - a third of the world's population - who have no access to electricity. Instead they must burn wood or dried animal dung in their homes. The indoor smoke this creates is the deadliest form of pollution in the world. According to the *World Health Organisation*, 4 million children under the age of five die each year from respiratory diseases caused by indoor smoke; and many millions of women die early from cancer and lung disease, for the same reason.

[Comment 126: The “four million children” figure appears to have been made up by the film-maker – the *World Health Organisation* fact sheet gives a total figure of 1.6 million *people* per year: <http://tinyurl.com/258364>.

Inhalation of wood smoke is certainly a major public health problem, but it is entirely false to imply (as the programme does) that action to combat climate change would somehow make this problem worse or more persistent. On the contrary, provision of more efficient stoves is an important component of many carbon offsetting schemes, with the aim of simultaneously reducing deforestation and promoting human health (see for example <http://tinyurl.com/38r7sp> [*ClimateCare*].)

(In breach of the 2003 Communications Act Section 265, Ofcom 5.4, 5.5, 5.7, 5.11, 5.12)

3. Falsification/Manipulation of Film Footage

[**Prof Syun-Ichi Akasofu**] There are reports from time to time of a big chunk of ice broke, break away from the Antarctic continent. Those must have been happening all the time, but because now we have a satellite that can detect those, that's why they become news.

[**Narrator**] This data from NASA's meteorological satellites shows the huge natural expansion and contraction of the polar sea ice taking place in the 1990s.

[Comment 104: The video played on the programme at this point, illustrating this "huge natural expansion and contraction of the polar sea ice" is deeply misleading. In fact, the variation that the film shows is simply the seasonal cycle: the ice melts and shrinks during the summer, and expands again during the winter (see <http://tinyurl.com/yvkbkh> [NASA] for a similar video).

The important issue regarding Arctic sea ice levels is the **year-on-year** changes, not seasonal changes; and although year-on-year changes do show some natural variability, there has been a strong decreasing trend in recent years (see the NASA video at: <http://tinyurl.com/ysjyns>, and the NSIDC graph at: <http://tinyurl.com/2yyjhs>).

Pretending that they were showing a film of year on year changes when they were actually showing a film of seasonal expansion and contraction amounts to deliberate deception.]

(In breach of the 2003 *Communications Act* Section 265, Ofcom 5.4, 5.5, 5.7, 5.11, 5.12)

4. Falsification/Manipulation by Quoting Selectively

[Narrator]

Climate scare stories cannot be blamed solely on sloppy or biased journalism. According to Professor Reiter hysterical alarms have been encouraged by the reports of the United Nations Intergovernmental Panel on Climate Change, or IPCC. On the spread of malaria, the IPCC warns us that:

[Voiceover with on-screen quotation from IPCC Assessment]

Mosquito species that transmit malaria do not usually survive where the mean winter temperature drops below 16-18°C.

[Narrator]

According to Professor Reiter, this is clearly untrue.

[Comment 112: The IPCC is selectively quoted here. The full sentence where the quotation appears (Climate Change 1995: Impacts, Adaptation and Mitigation of Climate Change, p571) reads:

Although anopheline mosquito species that transmit malaria do not usually survive where the mean temperature drops below 16-18°C, some higher-latitude species are able to hibernate in sheltered sites.
[Emphasis added.]

Hence, the IPCC statement, taken in context, is consistent with the statements of Reiter. By pretending that it is not, and by quoting only the middle half of the sentence in order to make it appear to state the opposite of what it really is stating, the film maker apparently set out quite intentionally to mislead the audience.

Furthermore, the risk of malaria depends not only on the vector (the anopheline mosquito) but also the malaria parasite. The programme refers only to the effects of climate on the vector. The 1996 IPCC report went on to say:

Sporogonic development (i.e., the extrinsic incubation phase of the plasmodium within the mosquito) ceases below around 18°C for Plasmodium falciparum, and below 14°C for P. vivax. Above those temperatures, a small increase in average temperature accelerates the parasite's extrinsic incubation (*Miller and Warrell, 1990*).

In addition, the 3rd and 4th IPCC Assessments were both very clear that the jury is still out as to whether increases in malaria in the East African highlands can be attributed to rising temperatures. For example, see Box 9.2 of the 3rd Assessment at <http://tinyurl.com/38mckr>, which states:

There are insufficient historical data on malaria distribution and activity to determine the role of warming, if any, in the recent resurgence of malaria in the highlands of Kenya, Uganda, Tanzania, and Ethiopia (*Cox et al., 1999*).

Nevertheless, peer reviewed studies by specialists in this field have indeed suggested that in the future, climate change will be one of many factors influencing the incidence of malaria, including in the East African Highlands

(*Githcko and W Ndegwa, 2001,* <http://tinyurl.com/3cl7hw>*; Tanser et al, 2003,* <http://tinyurl.com/yvqnxb>*; and Martens et al, 1999,* <http://tinyurl.com/342b44>*).*

It should also have been pointed out by the narrator that Reiter is not an expert on the effects of large-scale environmental change on human health; and nor is he considered to be a malaria mosquito expert - he is more of an expert on other types of mosquito (see Appendix C.18, page 142 and Comment 109, page 89 [of the full complaint]).

Thus the above narration is deeply misleading, both concerning the IPCC, and regarding the current state of scientific knowledge.]

(In breach of the 2003 Communications Act Section 265, Ofcom 5.4, 5.5, 5.7, 5.11, 5.12)

[Narrator] In a letter to the *Wall Street Journal*, Professor Frederick Seitz, former President of America's *National Academy of Sciences*, revealed that IPCC officials had censored the comments of scientists. He said that:

[Cut to zoomed in on-screen display of Wall Street Journal article.]

[Voiceover] This report is not the version that was approved by the contributing scientists.

[Narrator] At least 15 key sections of the science chapter had been deleted. These included statements like:

[Voiceover] None of the studies cited has shown clear evidence that we can attribute climate changes to increases in greenhouse gases.

[Voiceover] No study to date has positively attributed all or part of the observed climate changes to man-made causes.

[Narrator] Professor Seitz concluded:

[Voiceover] I have never witnessed a more disturbing corruption of the peer review process than the events that led to this IPCC report.

[Cut to on-screen display of IPCC reply to these allegations.]

[Narrator] In its reply, the IPCC did not deny making these deletions, but it said there was no dishonesty or bias in the report; and that uncertainties about the cause of global warming had been included. The changes had been made, it said, in response to comments from governments, individual scientists, and non-governmental organisations.

[Comment 114: The documentary should have made clear that this refers to events that took place in 1996, surrounding the release of the *Second Assessment Report*, which has been superseded by two more recent assessments. It should also

have disclosed that Frederick Seitz is a condensed matter physicist, and has never been a climate scientist or ever been involved with the IPCC. Moreover, it should have disclosed that at the time of writing the letter to the *Wall Street Journal*, Seitz was the Chair of the fossil-fuel industry-funded *George C. Marshall Institute* (see page 149 [of the full complaint]), as well as being Chairman of the *Science and Environmental Policy Project* (see page 155 [of the full complaint], and see also *S. Fred Singer*, Appendix C.10, page 135 [of the full complaint]).

Seitz has also worked as a consultant to the tobacco industry (<http://tinyurl.com/j5dpp> [Guardian]), and was described in an internal memo by *Phillip Morris Co.* in 1989 (7 years before the WSJ letter) as “quite elderly and not sufficiently rational to offer advice.” (<http://tinyurl.com/ytymym> [Tobaccodocuments]). He was later instrumental in organising a “petition project” of the *Oregon Institute of Science and Medicine* or OISM: a petition that has been heavily criticised for its misleading nature (see the entry about the OISM on page 154 [of the full complaint] for details).

Moreover, the revisions to a draft chapter of the IPCC report were made by the *authors* (i.e. the scientists) *themselves*, in response to review comments, as they are obliged to do under the normal peer review process. None of the authors complained about the changes, and forty signed a letter to the *Wall Street Journal* (see <http://tinyurl.com/yr3ozf>) stressing that the scientific content of the report was unchanged, and that uncertainties were still discussed in the final version.

They also noted that Seitz:

... was not involved in the process of putting together the 1995 IPCC report on the science of climate change. He did not attend the Madrid IPCC meeting on which he reports. He was not privy to the hundreds of review comments received by Chapter 8 Lead Authors. Most seriously, before writing his editorial, he did not contact any of the Lead Authors of Chapter 8 in order to obtain information as to how or why changes were made to Chapter 8 after Madrid.

An open letter of support for the IPCC was also written by the *American Meteorological Society* and the *University Corporation for Atmospheric Research* (see <http://tinyurl.com/yr3ozf>). See also **Appendix G**: page 165 [of the full complaint] for further context provided by Bert Bolin, the IPCC Chairman at the time of this controversy.

By quoting selectively an article by someone who has never had any involvement with the IPCC, who is not a climate scientist, and whose article in the *Wall Street Journal* has been shown to be so highly misleading, the film maker was apparently setting out to mislead the audience and to misrepresent the facts.]

(In breach of the 2003 Communications Act Section 265, Ofcom 5.4, 5.5, 5.7, 5.11, 5.12)

Pop-up Notes

Page: 4

[Nt1] When this complaint was submitted, we linked to <http://tinyurl.com/2ca6q>. However that web page now loads a new version of the paper in question that has been completely rewritten since our complaint was submitted. The current link is to an archived copy in PDF format of the paper as it was on 21 March 2007.