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APPENDIX 4

Fundamental Climate Science: Basic Questions and scientific reasoning

This document is part of, and intended to be read in conjunction with,
all parts of and appendices to the document entitled *CSIROh!*

"It does not matter who you are, or how smart you are, or what title you have, or how many of you there are, and certainly not how many papers your side has published, if your prediction is wrong then your hypothesis is wrong. Period."
Professor Richard Feynman, Nobel Laureate in Physics

"An error does not become truth by reason of multiplied propagation, nor does truth become error because nobody sees it."
Mohandas Gandhi

"Life was meant to be lived, and curiosity must be kept alive. One must never, for whatever reason, turn his back on life"
Eleanor Roosevelt

From my experience in business leadership and as a volunteer unravelling climate fear and guilt, people obtain clarity and ease by understanding fundamentals. Clarity on climate science and public portrayal of climate science is essential for assessing policy foundations and motives.

Fundamentals are understood by assessing empirical scientific evidence to let Earth speak for herself. Nature is the focus of science. Nature's voice provides context essential to understanding any critique of *climate change scientific theory*.

Instead of relying on the appeal to authority that reveals supposed scientific peer-review has been corrupted in climate science, let's investigate empirical scientific evidence and fundamental scientific reasoning to understand causation. Let's rely on science and our own intellect.

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Four Basic Questions on Climate:

As Canadian climate professor Tim Ball explains, true scientists and those applying science in the real-world understand that, quote: "*Science works by creation of theories based on assumptions, in which scientists performing their proper role as sceptics, try to disprove the theory*". Once a theory passes tests and criticism it is accepted.

For any claim advocating cutting human production of CO₂, four basic questions ALL need to be answered *yes*:

1. Is global ATMOSPHERIC temperature warming unusually in either amount or rate of warming and is it continuing to rise? If so,
2. Does the level of carbon dioxide (CO₂) in air control or determine Earth's temperature? If so,
3. Does human CO₂ production determine the level of CO₂ in air? If so,
4. Is warming catastrophic or even damaging?

The foundation of science is logical reasoning proving or disproving causal relationships. The core and ultimate arbiter of science is scientifically measured repeatable empirical scientific evidence. It provides answers to all four questions.

Overview of the empirical scientific evidence of causation

Carbon dioxide (CO₂) – empirical scientific evidence

Carbon dioxide is a naturally occurring colourless, invisible, odourless trace atmospheric gas essential for life on Earth. It is less than 0.04% of our air and is highly soluble in water with its solubility highly sensitive to water temperature so that like warm flat beer, warmer water absorbs less CO₂ than does colder water. In 1803 William Henry discovered this well recognised science since accepted into chemistry as one of our Gas Laws known as Henry's Law. (<http://www.bosmin.com/HenrysLaw.pdf>) The UN IPCC's 2007 science report admits Earth's oceans contain more than 50 times as much CO₂ in dissolved form than is in earth's entire atmosphere. Other sources claim 70 times. The dissolved CO₂ and the CO₂ in air are in a balance that varies with ocean temperature: as ocean surface temperature rises CO₂ is released into the air raising CO₂ levels in air and as the ocean surface cools CO₂ is absorbed reducing CO₂ levels in air. Earth's surface is almost three-quarters (71%) ocean with southern hemisphere ocean area 50% more than northern ocean area. Oceans have vast storage capacity for CO₂ and for heat and despite depths of up to 11 km ocean surface area is large relative to depth. During the southern hemisphere winter as the extensive southern ocean surface cools it absorbs huge quantities of CO₂ from the atmosphere and drives global CO₂ levels dramatically lower completely overpowering human CO₂ output. In southern hemisphere summers, warming ocean surfaces release huge quantities of CO₂ that raise global levels. That's confirmed empirically by seasonal variation obvious in measurements of CO₂ levels cited and relied upon by the UN IPCC (see Keeling Curve).

The late Prof. Lance Endersbee explains precise empirical correlation of CO₂ levels and ocean surface temperature:

(http://icecap.us/images/uploads/Focus_0808_endersbee.pdf) He concludes: "The correlation is remarkable and would be considered a perfect correlation in laboratory tests." He cites data from publicly available temperature and CO₂ levels, the latter being the same source as cited by the UN IPCC. If humans stopped producing CO₂ oceans would simply release a relatively minuscule amount more CO₂ to maintain the balance in air that depends on ocean temperature. If humans produced many times more CO₂ than we currently produce, oceans would simply retain a relatively negligible amount more of CO₂. This is confirmed by Henry's Law and by empirical evidence that shows nature determines CO₂ levels in air. Human production of CO₂ can have no effect on the global variability or level of CO₂ in air.

(Scientist Dr. Murray Salby and Canadian climatologist Prof. Tim Ball, Appendix 2, pages 9-10 <http://www.climate.conscious.com.au/CSIROh!.html>)

Ice core data show that the overall trend in the air's CO₂ levels rises 1,000 years after a rise in earth's temperature. The delay is considered to be due to the time required to warm earth's entire ocean after changes in solar activity. A thousand years ago earth was warmer than today and oceans are now still outgassing CO₂. As with seasonal variation, longer-term temperature changes drive changes in CO₂ trends. This is the opposite of the UN IPCC's core claim that human CO₂ drives temperature and climate. Compounding this are variable quantities of geothermal heat released at the ocean bed with activity correlating empirically with weather patterns.

<http://www.bosmin.com/SeismicWeather.pdf>

This appendix provides empirical scientific evidence from many sources with sections 2 and 3 discussing CO₂.

The UN IPCC deliberately excludes 90,000 reliable measurements of atmospheric CO₂ levels recorded over the last 200 years, including those taken by Nobel science prizewinners.

<http://drtimball.com/2011/ernst-georg-beck-a-major-contributor-to-climate-science-effectively-sidelined-by-climate-deceivers/>

and

http://www.biomind.de/nogreenhouse/daten/EE%2018-2_Beck.pdf

Some show CO₂ levels up to 40% above current levels contradicting UN IPCC claims of unusually high current CO₂ levels based on measurements from only the last 60 years. Current CO₂ levels are not unusually or abnormally high, they are close to the lowest in earth's history.

Prof. Ian Plimer A Short History of Planet Earth page 128 excerpted <http://www.galileomovement.com.au/docs/EarthHistoryPlimer2.pdf>

Earth's temperature – empirical scientific evidence

The second factor in the UN IPCC's core claim is temperature with the UN IPCC implying earth is experiencing unusual ongoing warming. The lower atmosphere, or troposphere, contains most of the mass of Earth's air and extends up to around 17,000 metres in altitude with satellite measurement using NASA satellites since 1979 providing accurate temperature measurements through the Earth System Science Center at the University of Alabama in Huntsville (UAH) and Remote Sensing Systems (RSS). Canadian statistician Ross McKittrick confirms that the data shows almost 20 years without any warming trend. This is supported by weather balloon radiosonde temperature measurements from 1958.

Both methods are ignored by the UN IPCC that instead uses ground-based measurements at a height of 2 metres on a tiny portion of earth's 29% land surface to represent global atmospheric temperature. These are discredited though due to non-compliance with standards (the USA network is the world's best yet 90% of its stations fail to meet standards) and due to documented deliberate fabrication of data by NASA-GISS and our BOM. Nonetheless, Dr. Phil Jones, former head of the UN IPCC's temperature database admitted no ground-based warming trend since 1995.

From the start of atmospheric temperature measurement in 1958 it has been cooling or flat (no warming) for almost 70% of the time. From the UN IPCC's formation there has been no warming for 70% of the time. Australian summer temperatures measured by satellite reveal only natural variation with no warming at all since the start of measurement in 1979, 36 years ago. Our earth's atmosphere and surface are not warming.

Since the industrial revolution in 1850, purely natural warming, cooling, warming, cooling, warming cycles with varying periods of stasis have prevailed. Australian Bureau of Meteorology (BOM) temperature data reveals Australia was warmer from 1860 to 1890 when heatwaves were far more severe than today and empirical data reveal cooling in rural weather stations over the last 120 years. Globally and in Australia, three warming cycles in the late nineteenth century, early-mid twentieth century and late twentieth century were similar in amount and duration of warming.

The world's longest continuous thermometer measurement is the Central England Temperature record revealing several warming, cooling and stasis cycles similar to those of the last 120 years with the warming from 1690 to 1720 being longer and greater than any warming cycle during industrialisation over the most recent 160 years. Earth is currently cooler than the historically recorded and scientifically verified Medieval Warming Period 1,000 years ago and far cooler than the Roman Warming Period 2,000 years ago and the earlier and warmer Egyptian and Minoan Warming Periods. The Northwest Passage over the Arctic was open in 1906 and in the 1940's when the Arctic was warmer than today. There is currently no warming in the atmosphere, land surface or oceans. There is nothing unusual or unprecedented in climate variability during the last 160 years. There is no process change in temperatures, only natural variability. (In its 1990 and 1995 reports the UN IPCC presented the Medieval Warming Period as warmer than today. It was removed in its 2001 report and replaced with the infamous hockey stick temperature fabrication.)

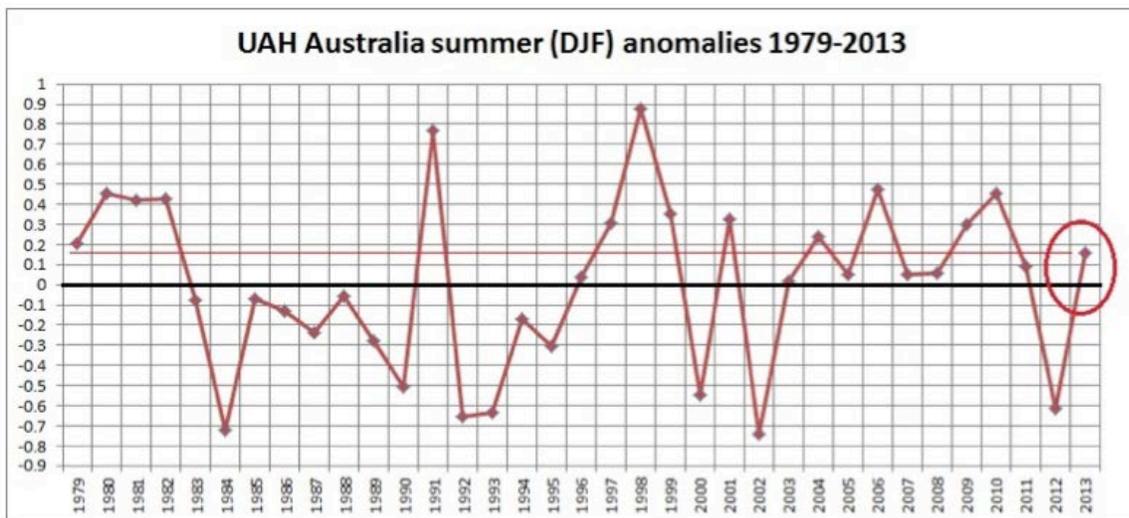
This appendix provides empirical scientific evidence from many sources with section 1 discussing temperature.

**1. Is global atmospheric temperature warming unusually in either amount or rate of warming and is it continuing to rise? No.
Earth's latest modest cyclic warming ended in 1998**

The UN IPCC's core claim about human CO₂ is that it causes an **atmospheric** effect: warming of the atmosphere. Yet the UN IPCC and CSIRO rely on corrupted **ground-based** temperature measurement. They avoid accurate satellite measurement of **atmospheric** temperature.

Much has been reported of summer temperatures in recent years. Emotional language from the government-funded Climate Commission (abolished in 2013) misrepresented climate and misled people into perceiving summer temperatures are warmer and now "angry".

Satellite temperatures confirm that there has been no warming trend in summer Australian atmospheric temperatures since the start of satellite measurements in 1979.



<http://joannenova.com.au/tag/australian-temperatures/>

And:

<http://joannenova.com.au/2013/03/hottest-summer-record-in-australia-not-even-close-says-uah-satellite-data/>

And:

<http://jonova.s3.amazonaws.com/graphs/australia/2013-hot-summer/australia-uah-summings.jpg>

The only global measurement of atmospheric temperature is by satellite. These reveal no warming of the atmosphere since 1998 and since 2006 reveal likely start of cooling.

<http://wattsupwiththat.com/reference-pages/atmosphere/>

Data reveals from 2006 onwards the possible start of cooling.

And: http://mclean.ch/climate/Tropos_temps.htm

Global atmospheric temperature has fallen since 1998. It's remained below 1998's temperature for 15 years. That's half a defined climate period (30 years).

Satellite measurements are scientifically accurate. They are confirmed by radiosonde weather balloon measurements. Both the radiosonde and satellite data are attributed a high degree of confidence in their scientific accuracy and integrity.

Weather balloon radiosonde measurements since 1958 reveal variation in cooling and warming cycles. It appears natural and entirely normal. There appears to be no significant net increase. The variation appears to be well within the range of error of measurements.

The atmosphere is not warming. Fluctuations since 1958 reveal natural cyclical variation in atmospheric temperature.

Consider ground-based temperature measurements. These are presented by Endersbee and separately by Archibald on page 18 of *Thriving with Nature & Humanity* available here:

http://www.conscious.com.au/_documents/Thriving%20with%20nature%20and%20humanity_single.pdf There has been no net rise in ground-based *rural* temperatures for 120 years.

Over the last 120 years, ground-based *city* temperatures have increased due to the statistically proven and scientifically verified Urban Heat Island Effect. Canadian statistician Ross McKittrick and American environmental and climate scientist Pat Michaels show that when one allows for the Urban Heat Island effect the modest claimed temperature increase is halved.

<http://www.webcommentary.com/docs/rrm-pjm-1207.pdf>

And:

<http://icecap.us/images/uploads/MM.JGR07-background.pdf>

And:

http://members.shaw.ca/sch25/FOS/Climate_Change_Science.html#Urban_Heat_Island

In the latter URL link, note the UN IPCC's reliance on a flawed study and statistician McIntyre's correction.

The *Urban Heat Island Effect* is due to human development and de-vegetation, not human CO₂.

McKittrick and Michaels prove that using correct analysis, quote: "*reduces the estimated 1980- 2002 global average temperature trend over land by about half*".

Former NASA senior climate studies scientist Dr. Roy Spencer supports McKittrick and Michaels with more data analysis, saying ground-based temperature data, quote: "... *the results for the U.S. only, which shows evidence that CRUTem3** has overstated U.S. warming trends during 1973-2011 by at least 50%.*"

<http://www.drroyspencer.com/2012/03/mckitrick-michaels-were-right-more-evidence-of-spurious-warming-in-the-ipcc-surface-temperature-dataset/>

** Climatic Research Unit, keeper of ground-based temperature data.

Roy Spencer worked as senior scientist for climate studies at NASA's Marshall Space Flight Center, Alabama. For his satellite-based temperature monitoring work he was awarded the American Meteorological Society's Special Award.

Even ground-based temperature measurements show warming ceased in 1997. Britain's Met Office says the warming trend ended in 1997:

<http://iceagenow.info/2012/07/met-office-warming-15-years/>

Prominent UN IPCC contributor and Climatic Research Unit gatekeeper Dr. Phil Jones reportedly stated there has been no warming since 1995. In the Documentary entitled *Not Evil Just Wrong* (2008) internationally eminent meteorologist and UN IPCC contributor Professor Richard Lindzen said, quote: "*There has been no statistically significant warming since 1995*".

And:

<http://www.dailymail.co.uk/sciencetech/article-2217286/Global-warming-stopped-16-years-ago-reveals-Met-Office-report-quietly-released--chart-prove-it.html>

And:

<http://tribune.com.pk/story/451401/global-warming-stopped-16-years-ago-uk-met-department-report/#comment-1007750>

And:

<http://www.thegwpf.org/the-mail-on-sunday-and-the-met-office/>

And:

<http://www.thegwpf.org/no-underlying-global-warming-in-recent-years/>

In cyclic temperature rises and falls during the last 120 years and underway since the Little Ice Age, at no time has any amount or rate of increase or decrease been unusual. All have been very mild and modest.

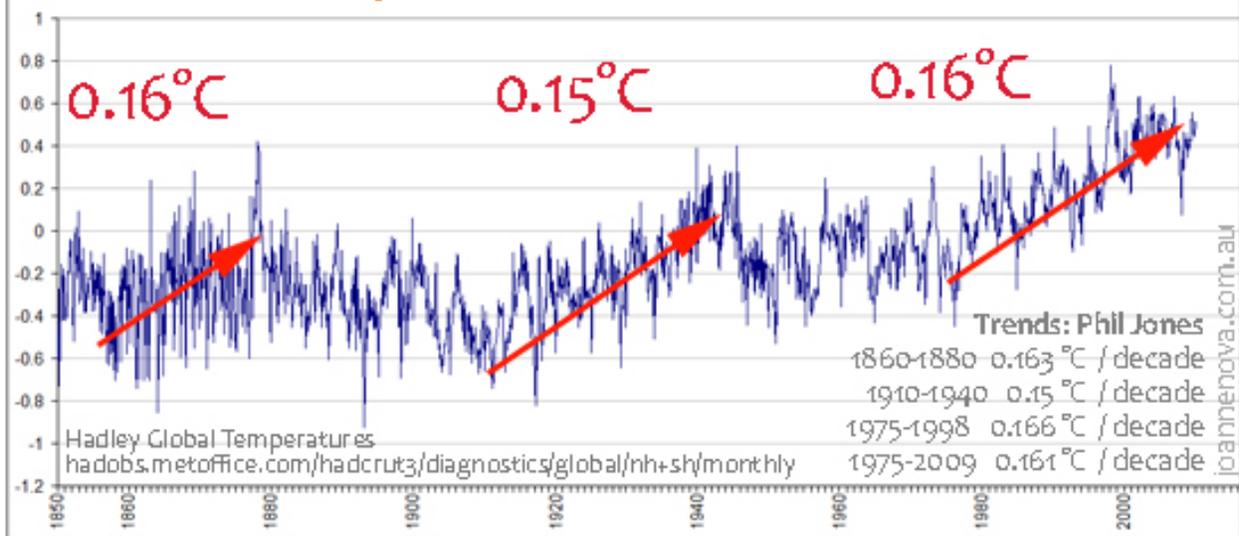
Why is Australia's Bureau of Meteorology (BOM) silent on key data? Why does it fail to mention that warming cycles in recent past (1860-1880 and 1912-1948) were similar to our latest cycle 1976-1998? In fact, our most recent warming cycle that ended in 1998 was shorter than the preceding warming cycle. When proclaiming increased effects of drought why does it fail to mention recent rainfall being higher than in the past? See first graph next page.

<http://joannenova.com.au/2010/03/the-bom-csiro-report-its-what-they-dont-say-that-matters/>

Why does it fail to mention that the temperature variability patterns from 1895-1946 and from 1957-2006 are similar yet BOM claims (without empirical scientific evidence and with no scientific reasoning) that the latter is caused by human CO₂? See second graph next page.

<http://wattsupwiththat.com/2013/08/20/when-somebody-hits-you-with-that-new-ipcc-is-95-certain-talking-point-show-them-this/>

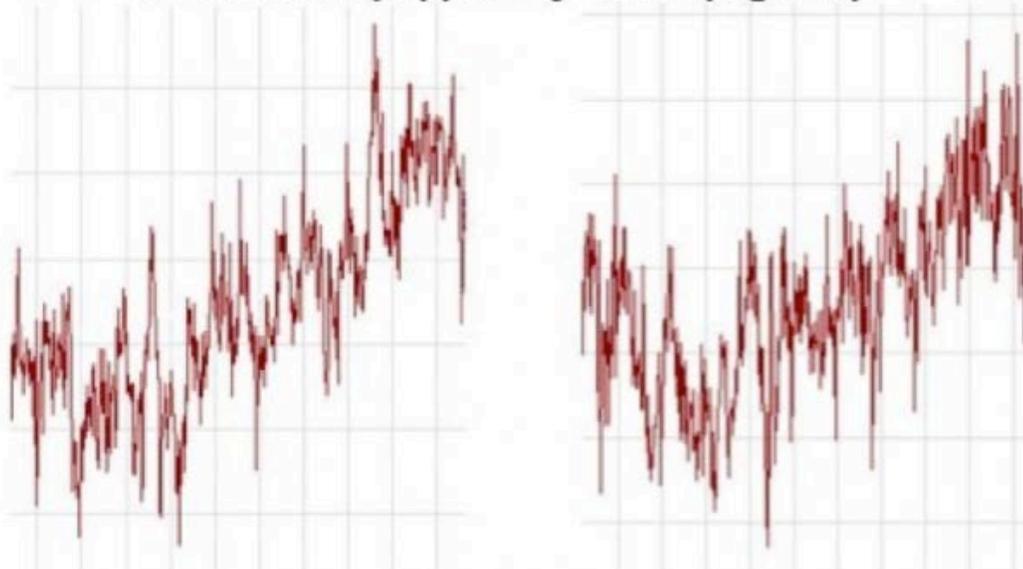
The trend repeats



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Two 51-Year Periods: Which Is Man, And Which is Mother Nature?

One Period is 1895-1946 ("nature") and the other Period is 1957-2008 (supposedly "Anthropogenic")



Both time and temperature scales are the same between graphs

Why were the Climate Commission and other alarmist advocates trumpeting each recent heat wave while ignoring Australia's far more severe past heat waves? eg, 1896:

<http://joannenova.com.au/2012/11/extreme-heat-in-1896-panic-stricken-people-fled-the-outback-on-special-trains-as-hundreds-die/>

BOM itself quietly says, quote: "The period between 13 and 20 January 1908 remains the most sustained hot spell in Melbourne's history."

<http://www.bom.gov.au/lam/climate/levelthree/c20thc/temp2.htm>

And: <http://stevengoddard.wordpress.com/2014/01/12/january-16-20-1908-melbourne-was-over-40c-every-day/>

Why were CSIRO, BOM and the Climate Commission silent on cold years? eg, 2013 was reportedly one of America's coldest years.

<http://stevengoddard.wordpress.com/2013/12/20/2013-one-of-the-ten-coldest-years-in-us-history-with-the-largest-drop-in-temperature/>

Interesting facts comparing Earth's current temperatures with temperatures in Earth's past are provided on pages 18-23 of *Thriving with Nature & Humanity*. Both the 1930's and the Medieval Warming Period just 1,000 years ago were warmer than recent decades. Earth's temperature in recent decades is estimated to be colder than Earth's average for the last 3,000 years.

Interestingly the Medieval Warming Period was accepted by science worldwide. <http://sppiblog.org/news/update-medieval-warm-period-project> It was recognized in the UN's 1990 and 1995 reports. Yet the UN IPCC's 2001 report removed it without scientific explanation using the infamous Hockey Stick temperature fabrication. After that was independently exposed as unscientific it was quietly withdrawn. Appendix 2.

Under weight of overwhelming scientific evidence and outcries, it has been quietly acknowledged in the UN IPCC's 2013 report.

Regional temperatures for the past 2,000 years:

<http://www.nipccreport.org/articles/2010/dec/15dec2010a4.html>

From meteorologist Joe Bastardi on the 1930's in America:

<http://twitter.com/BigJoeBastardi/status/224453023248826368/photo/1>

Record temperatures in American states were overwhelmingly set before 1950:

<http://wattsupwiththat.com/2012/10/24/climate-and-state-high-temperature-records-wheres-the-beef/>

Only one state out of 50 set a record temperature during the 2000's decade. Only 5 set a record during the 1990's. State records seem to confirm that the 1930's were warmer than in recent decades.

Australia's 1896 heat wave was far more severe than any heatwave in recent decades:

<http://joannenova.com.au/2012/11/extreme-heat-in-1896-panic-stricken-people-fled-the-outback-on-special-trains-as-hundreds-die/>

Consider temperature records on all continents according to America's National Oceanic and Atmospheric Administration (NOAA):

<http://www.ncdc.noaa.gov/oa/climate/globalextremes.html>

Highest Temperature Extremes and year of temperature record:

- Europe 1881
- Australia 1889 (or 1960)
- South America 1905
- Oceania 1912
- North America 1913
- Africa: 1922
- Asia 1942
- Antarctica 1974

Notice that Australia's record high was set in Cloncurry in the state of Queensland: 53.3° degrees Celsius or 128° degrees Fahrenheit in 1889.

* Or for those who question that due to instrument changes, Oodnadatta set the record in 1960, when it was 50.7° deg C or 123° deg F.

NOAA cites both and explains.

During the heat wave in January 2013 Oodnadatta's maximum was reportedly 2.5° degrees C cooler than its record 53 years ago.

Australia's record coldest temperature was set at Charlotte's Pass in 1994.

Continents in which record low temperature was set more recently than the continent's record high are:

- Antarctica
- North America
- South America
- Australia
- Oceania
- Africa

Europe unknown. (See NOAA)

Continents in which record high temperature was set more recently than the continent's record low:

- Asia

Single data points cannot determine a trend. Single data points though do reveal naturally high variation in temperatures over time and spatially.

Scientific evidence, history, anthropological and anecdotal evidence all reveal warmer periods in Earth's recent past. eg, grapes were grown in Greenland during the Medieval

Warming Period 1,000 years ago. Greenland wasn't named Greenland because it was white.

America's warmest year was 1934. The population then was half America's current population. Usage of fuels containing carbon was a fraction of current usage. There were no SUV's and only a fraction of today's number of cars. No 747's were flying.

NASA-GISS and other researchers claiming recent decades as being warmer reportedly refuse to release their raw temperature data and analysis methods. Their claims are closed to examination by independent researchers. That makes their claim unscientific.

Note that in its 1990 and 1995 reports the UN IPCC presented graphs showing the Medieval Warming Period being much warmer than recent decades. Yet contrary to science accepted worldwide, in the UN IPCC's 2001 report the Medieval Warming Period graph was replaced by the fabricated corrupt *hockey-stick* temperature graph. The UN IPCC simply overrode and trashed science to conjure unusual warming.

Its *hockey-stick temperature graph* has since been scientifically discredited worldwide.

Although its splashy and scary impact on the media stole headlines worldwide, its withdrawal and dumping was quiet. People remember only the supposed alarming recent temperature spike. Few people know the spike is unfounded and contradicts empirical scientific evidence.

According to America's National Oceanic and Atmospheric Administration (NOAA), Australia's record highest temperature was set in 1889 in Cloncurry although some say 1960 in Oodnadatta, more than half a century ago. The most recent maximum continental temperature record was Antarctic's record set in 1974.

<http://www.ncdc.noaa.gov/oa/climate/globalextremes.html>

Australia's coldest temperature record was set at Charlotte Pass in 1994.

In all but one continent, record lowest temperatures have been set more recently than record high temperatures. The variation in dates is enormous. Nature varies, naturally.

The available temperature record reveals temperature has varied with cyclical rises and falls since the Little Ice Age ended in the nineteenth century. The pattern reveals nothing unusual. Apart from *localised* Urban Heat Island effects surrounding cities, cyclical variations in temperature have been apparently entirely natural.

Incorrectly including temperatures inflated by the Urban Heat Island Effect still produce a *global* temperature increase during the last century of just 0.7 degrees C. That's less than the minimum temperature difference discernible by the human body.

Isn't it natural to expect the climate to naturally warm in the century or two after the entirely natural Little Ice Age? There is much empirical scientific evidence that cyclic warming and cooling during the last 200 years since Earth's Little Ice Age has been and continues to be entirely natural and normal. Temperature variation before, during and

since the Little Ice Age confirms entirely natural processes at work. There's nothing unusual occurring.

A new analysis of ground-based temperature measurements confirms again that ground-based temperature measurements are corrupted by their contravention of weather station standards and by apparently deliberate unscientific manipulation of data:

<http://wattsupwiththat.com/2012/07/29/press-release-2/>

The paper is co-authored by meteorologist Anthony Watts, statistician Steve McIntyre, Evan Jones and John Christy, Professor of Atmospheric Science, Alabama State Climatologist and Director of the Earth System Science Center at the University of Alabama, Huntsville. John Christy has joint responsibility for satellite measurements of global atmospheric temperature. The new study's findings include yet are not limited to the following:

- Adjustment of data by American government agency NOAA reveal that adjustment nearly triples the warming recorded;
- Statistically significant differences between temperatures recorded at urban and rural temperature stations;
- Urban sites warm more rapidly than semi-urban sites;
- Semi-urban sites warm more rapidly than rural sites;
- The raw data Tmean trend for well-sited stations is 0.15°C per decade lower than adjusted Tmean trend for poorly sited stations;
- Statistically significant differences exist between compliant and non-compliant stations. Compliant stations are those complying with standards;
- Poorly sited station trends are adjusted sharply upward;
- Well sited stations are adjusted upward to match the already-adjusted poor stations;
- Airport USHCN stations show significant differences in trends apparent in non-USHCN stations. Due to equipment issues and other problems, they may not be representative stations for monitoring climate.

An earlier study by American meteorologists Joe D'Aleo and Anthony Watts quantified startling corruption of American temperature measurements. Only 10% of weather stations complied with official measurement standards. Remember that America's temperature recording network is considered to be the world's best.

http://scienceandpublicpolicy.org/images/stories/papers/originals/surface_temp.pdf

Meteorologist Joseph D'Aleo confirms:

<http://icecap.us/images/uploads/NOAAroleinclimategate.pdf>

Quote: *"The global data bases have serious problems that render them useless for determining accurate long term temperature trends. Especially since most of the issues produce a warm bias in the data."*

Consider the difference made by adjustment of the raw data:

<http://climaterealist.com/index.php?id=9774>

And:

<http://climaterealist.com/index.php?tid=717>

Internationally eminent statistician Professor Harry Roberts, famous for the random walk on Wall Street advised that the first step in any data analysis is to plot the raw data and then use the world's most powerful statistical analysis tools: human eyeballs. Human eyes have had millennia of evolution focused on quickly identifying patterns as fundamental for survival. Visual analysis to identify patterns most efficiently identifies the most appropriate analysis tools. Except when the desired result is pre-determined.

There is no empirical scientific evidence of unusual global atmospheric warming. Nor is there any empirical scientific evidence of unusual ground-based global warming.

There is considerable variation in measurements of sea surface temperature. Yet measurements in recent years have remained flat with indications since 2003 of slight cooling. There is no empirical evidence of unusual global ocean warming.

<http://sciencespeak.com/NoOceanWarming.pdf>

Dramatically claiming 2012 American summertime high temperatures are unusual is false. They are readily explainable weather events:

<http://www.sepp.org/twtwfiles/2012/TWTW%20-%207-7-12.pdf>

And:

<http://drtimball.com/2012/current-global-weather-patterns-normal-despite-government-and-media-distortions/>

Marc Morano puts it into scientific and political perspective:

<http://triblive.com/opinion/2379398-74/global-warming-hansen-climate-globally-record-trying-activists-hottest-proof>

Why are alarmists looking at a normal weather event on America's 2 percent of Earth's surface and extrapolating globally? Quote: "*So far in 2012, (global) temperatures have been slightly below the average for the last 15 years. So if the Earth isn't actually in record warmth globally, why are we looking at 2 percent (of its surface) and then trying to draw extrapolations?*"

Is the southern hemisphere unusually cold?

<http://www.news24.com/SouthAfrica/News/First-time-ever-Snow-in-all-9-provinces-20120808#.UCq6XhXQdHk.facebook>

Please note the comments on NOAA/NASA-GISS rankings for month and year. Meteorologist Joe D'Aleo says definitely not and supports his conclusions with data.

<http://icecap.us/images/uploads/NOAAroleinclimategate.pdf>

The UN IPCC and its supporters claim human CO₂ produces ATMOSPHERIC warming. Yet to justify their supposed atmospheric effect, instead of relying on ATMOSPHERIC temperatures they rely on corrupted GROUND-BASED measurements.

Investigating the UN IPCC's use of GROUND-BASED temperatures reveals corruption of data due to sloppiness and apparently due to deceit calculated to grossly exaggerate and fabricate warming.

UN IPCC and CSIRO rely on corrupted, manipulated 'data'

Australia's Bureau of Meteorology (BOM) has manipulated Australian temperature records to convert global cooling at some measurement stations to global warming. It refuses to present its method of adjustments. Appendix 7 presents examples.

It's documented that exaggerating warming and / or converting cooling into warming occurs in others nations. Appendix 7.

CSIRO's position on global warming (climate change) relies on use of ground based temperature measurements known to be corrupted.

http://scienceandpublicpolicy.org/images/stories/papers/originals/surface_temp.pdf

It is compounded by CSIRO ignoring satellite measurements of global atmospheric temperature other than to imply that satellites confirm CSIRO's unfounded and false claims about global temperature.

This corruption of ground-based temperatures is in two forms:

- Unintentional due to breaches of weather recording standards, sloppy adjustments and fundamental structural errors; and,
- Deliberate, unscientific and seemingly dishonest manipulations that distort, skew and/or exclude data including removal enmasse of many land station measurements showing cool temperatures. Reportedly, there are many questionable and seemingly dishonest manipulations aiming to misrepresent temperature including the inflating of recent temperatures and/or decreasing of earlier temperatures to falsely concoct higher rates of warming.

<http://www.uoguelph.ca/%7Ermckitri/research/nvst.html>

<http://scienceandpublicpolicy.org/images/stories/papers/originals/Monckton-Caught%20Green-Handed%20Climategate%20Scandal.pdf>

<http://wattsupwiththat.com/2012/01/25/another-giss-miss-this-time-in-iceland/>

Earlier in this appendix a reference by McKittrick and Michaels was cited. Note their comment on the UN IPCC's methods of making unsubstantiated claims, quote: "*Statistical significance is a precise scientific term, and a claim that results are insignificant requires specific numerical evidence. The IPCC evidently had none, but made the claim anyway. The technical term for this is "making stuff up."*"

<http://icecap.us/images/uploads/MM.JGR07-background.pdf>

The sole database of ground-based temperatures is held by Britain's Hadley Climatic Research Unit (CRU). It's enmeshed in the Climategate Scandal. It provides the data that is at the core of the UN IPCC's claim of unusual warming. Although NASA and NOAA produce their own graphs and thus give the illusion of *independent confirmation* of UN IPCC's reports, all three graphs rely on the same corrupt database. The database's programmer himself admits that the database is in a quote, "*hopeless state*". See first three paragraphs on page 4, here:

http://scienceandpublicpolicy.org/images/stories/papers/originals/surface_temp.pdf

For more detail, meteorologist Joseph D'Aleo quoting the database of ground-based temperatures relied upon by the UN IPCC and CSIRO: "*Programmer Ian "Harry" Harris, in the Harry_Read_Me.txt file, commented about:*

"[The] hopeless state of their (CRU) data base. No uniform data integrity, it's just a catalogue of issues that continues to grow as they're found...I am very sorry to report that the rest of the databases seem to be in nearly as poor a state as Australia was. There are hundreds if not thousands of pairs of dummy stations, one with no WMO and one with, usually overlapping and with the same station name and very similar coordinates. I know it could be old and new stations, but why such large overlaps if that's the case? Aarrggghhh! There truly is no end in sight.

This whole project is SUCH A MESS. No wonder I needed therapy!!"

<http://icecap.us/images/uploads/NOAAroleinclimategate.pdf>

The culling of thermometers shows that despite technological improvements human nature is reducing data gathering:

<http://blog.qtau.com/2010/05/dude-where-is-my-thermometer.html>

It caused '*global warming*':

<http://www.uoguelph.ca/%7Ermckitri/research/nvst.html>

The CRU '*maintains*' the database. Access to the raw data by scientific peers has been prevented. That is unscientific. Claims based on the database should be discarded as unscientific.

Fundamental structural issues plaguing the data relied upon by the UN IPCC include the following:

- It relies on data from a small fraction of Earth's surface. Earth's surface is 71% ocean. Land is only 29%. Of that most is remote. Data are skewed to America and Europe and within those areas to populated regions;
- Although America's temperature measurement network is seen as the world's best national network, only 10% of its stations comply with standards;
- Given the dramatic differences between regions and the significant regional factors affecting climate, a calculated average global temperature is meaningless;
- Surface temperatures are not necessarily indicative of a bulk atmospheric effect;
- Those claiming unusual warming fail to define, much less explain the amount of natural temperature variation. Until they define those limits they cannot identify what is not normal. Their claims are meaningless;
- Culling of stations was unscientifically biased to cull stations recording low temperature rises or cooling;
- Temperature changes are reported to four decimal places yet accuracy of recording is only to half a degree and in the past to just one degree;
- Inherent errors demonstrated in one year by the three agencies NASA, NOAA and CRU differed by 0.4 deg C in the temperature they presented. That's more than half the total claimed warming said to be 0.7 deg C for twentieth century and over the last 130 years.
- Reportedly, the UN IPCC's estimate of temperature increase produced by Phil Jones shows a temperature increase of 0.6 degree plus or minus 0.2 degree. The

- measurement error is one third the supposed increase;
- According to John O'Sullivan, above, one quarter of the world's official climate record is in the hands of New Zealand's NIWA currently the subject of a court action (see above) and the, quote "*discredited Australian (BOM)*"

Climatologist Tim Ball documents some of his significant valid concerns here:

<http://drtimball.com/2011/bureaucracy-the-enemy-within/>

And:

<http://drtimball.com/2011/the-best-is-the-worst-global-temperature-measures-redux-not/>

American government agencies are tainted:

<http://wattsupwiththat.com/2012/01/25/another-giss-miss-this-time-in-iceland/>

And:

<http://www.forbes.com/sites/jamestaylor/2012/06/13/doctored-data-not-u-s-temperatures-set-a-record-this-year/>

And:

<http://stevengoddard.wordpress.com/2012/06/11/uncorrupted-us-temperature-data-showed-cooling-from-1930-to-1999/>

And:

<http://stevengoddard.wordpress.com/2012/06/11/why-hansen-had-to-corrupt-the-temperature-record/>

James Hansen caught misrepresenting climate yet again:

<http://wattsupwiththat.com/2012/08/06/nasas-james-hansens-big-cherry-pick/>

UN IPCC & CSIRO rely on unvalidated erroneous computerised numerical models

The UN IPCC and CSIRO seem to avoid atmospheric temperatures. They use and rely on unscientifically manipulated ground-based temperatures.

Secondly, the UN IPCC and CSIRO contradict empirical scientific evidence, dabble with corrupted science and then rely on unvalidated computerized numerical model projections of future temperatures. These have already proved wrong.

In Table 2-11 of its 2007 report, even the UN IPCC admits that of 16 forcing factors on which the numerical models depend, 13 (81%) have low or very low levels of understanding. The sole factor it lists as having high level of understanding is widely questioned and contradicts empirical scientific evidence.

Yet academic and government advocates of human causation of global warming still falsely rely on unvalidated computerised numerical model projections as '*evidence*'.

Do these advocates understand that the UN IPCC and CSIRO climate projections rely on misrepresentations contradicting empirical scientific evidence? Unvalidated numerical

models misrepresent Nature. They mask the beauty and wonder of our beautiful planet's climate and weather systems.

<http://drtimball.com/2012/static-climate-models-in-a-virtually-unknown-dynamic-atmosphere/>

And:

<http://drtimball.com/2012/errors-and-omissions-in-major-tropical-climate-mechanism-invalidate-ipcc-computer-models/>

Unvalidated numerical models relied upon by the UN IPCC fail to model the Hadley Cell. It's fundamental in understanding atmospheric heat movement and water vapour movement.

Reportedly, quote: "*Climate models cannot explain what caused the warming 1000 years ago, nor the cooling 300 years ago, so they can't rule out the same factors aren't changing the climate today (though they claim they can). If climate models can't explain the past, they can't predict the future.*"

<http://joannenova.com.au/2012/07/medieval-warm-period-found-in-120-proxies-roman-era-similar-to-early-20th-century/>

Jo Nova discusses a new scientific study, here:

<http://joannenova.com.au/2012/08/models-get-cloud-feedback-wrong-but-only-by-70wm2-thats-19-times-larger-than-the-co2-effect/>

The UN IPCC's latest report, 2007, contains one chapter (chapter 9) claiming warming and attributing it to human production of CO₂. That chapter contains no empirical scientific evidence of causation. It relies on projections from unvalidated computerised numerical model. It's deceptively written in a way that falsely implies computer outputs are '*measurements*'.

Britain's Met Office is closely connected with the UN IPCC and the Climatic Research Unit. It reportedly uses one of the world's most powerful computers yet its own weather forecasts are in huge error.

Meanwhile, private weather forecasters such as Piers Corbyn using personal computers have 85% accuracy. They omit political factors such as CO₂ and instead rely on scientifically validated natural drivers of weather and climate.

<http://thegwpf.org/uk-news/6052-reminder-met-office-computer-models-are-complete-rubbish.html>

Piers Corbyn relies for his living on the proven high level of accuracy of his forecasts. That accuracy is due to his understanding of natural climate factors. The UN IPCC relies instead on distorting Nature.

The UN IPCC relies on corrupting climate science

Thirdly, the UN IPCC relied on what has become known as the infamous corruptly fabricated '*Hockey Stick Temperature Graph*'. It was given prominence in the UN IPCC's 2001 report and blasted worldwide in scary headlines.

Later it was comprehensively scientifically discredited. Its authors will not release the data on which it is purportedly fabricated. Yet the UN IPCC promoted it to sweep aside hundreds of papers showing higher temperatures 1,000 years ago.

After capturing media and public attention with the graph in 2001 to successfully instill climate alarm, the UN IPCC quietly withdrew its use. Mission accomplished.

Recent claims by a supposed sceptic whose actions reveal he's not a sceptic

The Berkeley Earth Surface Temperature (BEST) project led by Richard Muller released a report in November 2011. It focused on ground-based temperatures. He released a further report in July 2012 claiming human CO₂ causes warming.

Both attempts were paraded by the media as confirmation of human causation of global warming. The media added significance by falsely claiming that Richard Muller is a climate sceptic who has changed his opinion based on examining the science. Yet his study relies on corrupted ground-based temperature measurements. His paper was rejected in peer-review. He leaped to the conclusion that warming was due to human CO₂ yet provides no evidence of any causal link between human CO₂ and Earth's temperature. His own earlier co-author dismisses that claim as unfounded. What does it say about Richard Muller's understanding of science and causation?

The study is described as, quote: "*Berkeley Earth Surface Temperature aims to contribute to a clearer understanding of global warming based on a more extensive and rigorous analysis of available historical data.*"

His previous paper was rejected in peer-review due to methodology errors. This paper is not scientifically peer-reviewed.

Richard Muller's actions reveal his approach is not scientific. He is not a sceptic since his claims about human CO₂ driving temperature are unfounded. True scientists have a duty to be skeptical and to remain sceptical until provided sound, repeatable empirical scientific evidence.

These references provide interesting analysis and comments:

Rejection of the BEST project's initial paper at peer-review:

<http://www.rossmckitrick.com/>

A real climate scientist reveals the BEST foundation as shaky:

<http://drtimball.com/2011/the-best-is-the-worst-global-temperature-measures-redux-not/>

More data quality problems in the BEST study:

<http://climateaudit.org/2011/11/06/best-data-quality/>

Doesn't it confirm an end to warming?

<http://thegwpf.org/the-climate-record/4239-pat-michaels-a-few-observations-on-the-latest-best-kerfluffle-and-recent-trends.html>

More comments on BEST and on Richard Muller's background and approach:

<http://sppiblog.org/news/morano-updates-the-mullerbest-study-controversy>

The first report's co-author, Judith Curry flatly rejects the second study's claim of warming due to human CO₂:

<http://judithcurry.com/2012/07/29/a-new-release-from-berkeley-earth-surface-temperature/>

- Quote: *"Their latest paper on the 250 year record concludes that the best explanation for the observed warming is greenhouse gas emissions. In my opinion, their analysis is way over simplistic and not at all convincing."*

It seems that real scientists rightly disapprove of quote, "media blitzing":

<http://wattsupwiththat.com/2012/07/29/why-the-best-papers-failed-to-pass-peer-review/>

A conclusion that it was about self-aggrandisement together with evidence of shoddy analysis:

<http://wattsupwiththat.com/2012/07/30/new-data-old-claims-about-volcanoes/>

An internationally eminent physicist and climate scientist provides his view:

http://www.americanthinker.com/2012/01/fake_fake_fake_fake.html

Sceptic credentials?

http://blogs.news.com.au/heraldsun/andrewbolt/index.php/heraldsun/comments/not_a_sceptic_not_our_champion_not_conclusive_but_warmists_cheer/

Scientific community sees it as publicity in lieu of peer review:

<http://www.nature.com/nature/journal/v478/n7370/full/478428a.html>

And:

http://www.truthnews.com.au/web/radio/story/mullergate_a_muddled_professor_who_meddled_with_the_media

The previously mentioned new statistical analysis of ground-based temperatures comprehensively scuttle the BEST study.

<http://wattsupwiththat.com/2012/07/29/press-release-2/>

Richard Muller's recent media splash said nothing new about climate and temperature. It said much about him and BEST. It revealed that the global warming campaign is desperate.

At its core, the claimed effect of human CO₂ is that it warms the ATMOSPHERE. The UN IPCC and CSIRO avoid accurate satellite measurement of ATMOSPHERIC temperature. Instead, their false claims of rising temperatures rely on unscientific manipulation of corrupted GROUND-BASED temperature data.

In summary, it's widely recognized scientifically that Earth's temperatures have increased since the Little Ice Age that ended around 1750-1800. The subsequent periods of modest warming and cooling though prove no unusual or unnatural trends.

http://icecap.us/images/uploads/US_Temperatures_and_Climate_Factors_since_1895.pdf

It seems 'experts' fail to agree on recorded past temperatures. Yet they pretend consensus on temperature in the year 2100. Why?

With the first Basic Question on temperature revealing no ongoing rise in atmospheric temperatures, it could be tempting to ignore the other three questions. Yet investigating the other questions will later enable assessment of CSIRO and UN IPCC '*science*'.

Above I've discussed that:

- NASA satellite data shows insignificant & immaterial atmospheric warming;
- Argo buoys' heat content data has shown a distinct lack of ocean warming;
- There is strong correlation between magnetic solar flux and temperature;
- Graphing land/ocean temperatures against CO₂ levels from 1880 to 2011 reveals climate alarm is unfounded.
-

Here are a few more facts on climate data:

- In the period, 1910-1940, warming was faster than the past 60 years;
- Even NASA-GISS data since 2001 shows temperature rise decelerating to almost zero & low correlation with CO₂. In recent decades there are periods of negative correlation;
- 30 years of satellite data reveal Antarctica is cooling;
- NOAA ground-based data shows a vast number of weather stations recording global cooling since 1880;
- Greenland's supposedly "unprecedented" modern temperatures are cooler than they were in the 1920-1930s;
- Strident climate alarmist and UN IPCC contributor Kevin Trenberth said, quote: "The fact is we can't account for the lack of warming at the moment and it's a travesty that we can't";
- Even the government's Chief Climate Commissioner Tim Flannery has admitted the cooling trend of the past decade. The government funded Australian Academy of Science has confessed that uncertainty exists about future climate trends.

Whether it's warming or cooling depends on the time frame examined. Over the past:

- year it appears to be cooling;
- 14 years it appears to be cooling;
- 33 years it appears to be warming
- 300 years, warming;
- 1,000 years, cooling;
- 1,200 years, warming;
- 2,000 years, cooling;
- 2,500 years, warming;
- 3,300 years, cooling;
- 12,000 years, warming;
- 125,000 years, cooling;
- 350,000 years, warming;
- 3,000,000 years, cooling;
- 30,000,000 years, cooling;

- 65,000,000 years, cooling.

This reflects our climate's true nature. It consists of many superimposed cycles of varying lengths. During the last 160 years Earth's climate has experienced end of cooling, warming, cooling, warming, cooling, warming and now stasis.

The imaginative two-degree warming threshold is a fabricated sound-bite

The fundamental claim often repeated by politicians is that we need to avoid a two-degree warming. The reality is that the original two-degree warming was plucked out of the air. It's not scientific: <http://www.spiegel.de/international/world/climate-catastrophe-a-superstorm-for-global-warming-research-a-686697-8.html>

The plucker reportedly did quite well financially for his concocted threshold warming fabrication.

2. Does carbon dioxide control or determine Earth's temperature? No. Temperature drives and determines CO₂ level in air

Changes in CO₂ levels are a consequence of temperature changes not a cause.

Carbon dioxide is a naturally occurring colourless, invisible, odourless trace atmospheric gas essential for life on Earth. It is less than 0.04% of our air and is highly soluble in water with its solubility highly sensitive to water temperature so that like warm flat beer, warmer water absorbs less CO₂ than does colder water. In 1803 William Henry discovered this well recognised science since accepted into chemistry as one of our Gas Laws known as Henry's Law. (<http://www.bosmin.com/HenrysLaw.pdf> particularly last slide)

The late Prof. Lance Endersbee explains precise empirical correlation of CO₂ levels and ocean surface temperature:

http://icecap.us/images/uploads/Focus_0808_endersbee.pdf) He concludes: "The correlation is remarkable and would be considered a perfect correlation in laboratory tests." He cites data from publicly available temperature and CO₂ levels, the latter being the same source as cited by the UN IPCC. If humans stopped producing CO₂ oceans would simply release a relatively minuscule amount more CO₂ to maintain the balance in air that depends on ocean temperature. If humans produced many times more CO₂ oceans would simply retain a relatively negligible amount more of CO₂. This is confirmed by Henry's Law and by empirical evidence showing nature determines CO₂ levels in air. This proves that human CO₂ can have no effect on the global variability or level of CO₂ in air.

Further, it shows that seasonally, changes in atmospheric CO₂ levels follow changes in temperature and are caused by changes in temperature.

Data since the 1950's cited by the UN IPCC and scientific analysis of ice core data prove changes in atmospheric CO₂ levels are a RESULT of temperature changes. Changes in CO₂ levels do not drive temperature changes. Instead, empirical scientific evidence proves temperature changes drive and determine changes in CO₂ levels.

This is proven in seasonal data cited by the UN IPCC itself, in ice core measurements and in recent work by Professor Murry Salby:

http://www.galileomovement.com.au/science_futility.php#I

Murry Salby's work reveals that temperature and to a lesser degree soil moisture determine CO₂ levels in air. Murry Salby's direct links are:

<http://www.thesydneyinstitute.com.au/podcast/global-emission-of-carbon-dioxide-the-contribution-from-natural-sources/>

Video with slides:

<http://www.youtube.com/watch?v=YrI03ts--9I&feature=youtu.be>

Scientific analysis of ice cores reveals that the overall trend in atmospheric CO₂ levels follows temperature trends on a one thousand year lag. ie, changes in temperature cause changes in CO₂ levels. The current rising CO₂ trend reflects temperatures 1,000 years

ago. That was during the Medieval Warming Period.

And:

<http://www.youtube.com/watch?v=YrI03ts--9I&feature=youtu.be>

And:

<http://wattsupwiththat.com/2012/07/23/new-research-in-antarctica-shows-co2-follows-temperature-by-a-few-hundred-years-at-most/>

Quote: “*“The ice cores show a nearly synchronous relationship between the temperature in Antarctica and the atmospheric content of CO₂, and this suggests that it is the processes in the deep-sea around Antarctica that play an important role in the CO₂ increase,” explains Sune Olander Rasmussen*”. Their claimed lag between CO₂ changes that follow temperature changes is less than other studies that claim the lag is 800-1,000 years. They cite the impact of CO₂ dissolved in the deep ocean.

Please note the summary posted at The Galileo Movement’s website:

http://www.galileomovement.com.au/science_futility.php and access Bob Beatty’s paper entitled *Atmospheric carbon dioxide and marine interaction* that is accessible directly at: <http://www.bosmin.com/SeaChange.pdf>

The solubility of CO₂ in water increases as water temperature decreases. This means that as ocean temperatures cool, oceans absorb CO₂ from the air. As ocean temperatures warm, oceans liberate CO₂ into the atmosphere.

Oceans cover almost three quarters (71%) of Earth’s surface and are up to almost 11 kilometres deep. The southern hemisphere ocean is 50% greater in surface area than the Northern hemisphere ocean. Oceans contain, in dissolved form, 50 times the amount of CO₂ contained in Earth’s entire atmosphere.

As massive southern ocean surfaces cool in the southern hemisphere winter they absorb CO₂ from the air. Concurrently in the Northern hemisphere, deciduous plants take in large quantities of CO₂. They combine to dramatically reduce global atmospheric CO₂ levels. This is revealed in data used by the UN IPCC.

Despite human CO₂ production being relatively uniform throughout the year, atmospheric CO₂ levels are driven down considerably during the southern hemisphere winter.

Secondly, variation in CO₂ levels between years (inter-annual) is much less than the variation within each year (intra-annual).

Thirdly, natural variation in Nature’s production of CO₂ alone is estimated to be four times total annual human CO₂ production. Nature controls CO₂ levels.

Earth’s CO₂ sinks and sources are not saturated. They are temperature dependent and temperature regulated. As ocean surface temperature varies seasonally and as bulk ocean temperature varies over hundreds of years the temperature changes change ocean CO₂ content and the level of CO₂ in the air.

Rainforests are a significant source of methane and CO₂ from rotting vegetation. Contrary to popular misconceptions, during the last 100 years most continents now have 30% more forest coverage. This is presumably due to greater understanding of the natural environment's importance and due to use of gas, coal, oil and uranium replacing trees for fuel.

The major control on Earth's glacial-interglacial cycle is believed to be varying distribution of incoming solar radiation across the Earth, in conjunction with our planet's changing orbital geometry. Milankovitch cycles include the following cycles: circa precession, tilt (or obliquity) and eccentricity being circa 20,000, 41,000 and 100,000 years respectively. This changes the strength of seasonality, particularly with the tilt cycle.

CO₂ did not drive Milankovitch cycles that cause sharp cyclical changes in temperature that can average 6-8 degrees C.

Empirical scientific evidence proves CO₂ does not drive temperature. Instead, empirical scientific evidence proves that both seasonal and longer-term cyclical temperature changes drive and determine CO₂ levels.

Canadian Climatologist Tim Ball confirms and explains the importance of soil moisture:
<http://drtimball.com/2012/soil-moisture-illustrates-why-ipcc-computer-models-fail/>

Data on intermediate time periods longer than seasonal and shorter than 1,000 years reveal a mixture of periods with negative correlation and brief periods of positive correlation. These indicate apparent coincidence not correlation. This applies directly to the period since the start of industrialization and especially since the major industrialization following World War 2. Without correlation there can be no causation.

Correlation between two factors is essential for claiming causation. American meteorologist Joe D'Aleo illustrates the lack of correlation between CO₂ and temperature in the medium term over the last 50-100 years:

[http://icecap.us/images/uploads/US Temperatures and Climate Factors since 1895.pdf](http://icecap.us/images/uploads/US_Temperatures_and_Climate_Factors_since_1895.pdf)

Without correlation over the last 50 years there can be no causation. Neither temperature nor climate is controlled by CO₂.

Far from being the major factor as climate alarmists claim or even one of many major factors, human production of CO₂ has no detectable control over, or influence on, global climate or temperature.

The UN IPCC relies on corrupted data and falsified data and graphs to present its case on CO₂ trends.

<http://drtimball.com/2012/pre-industrial-and-current-co2-levels-deliberately-corrupted/>

And:

http://www.biomind.de/nogreenhouse/daten/EE%2018-2_Beck.pdf

Doubts about CO₂ measurements:

<http://www.globalwarmingskeptics.info/showthread.php?tid=702>

And:

<http://drtimball.com/2011/ernst-georg-beck-a-major-contributor-to-climate-science-effectively-sidelined-by-climate-deceivers/>

And:

<http://drtimball.com/2011/zbigniew-jaworowski-m-d-ph-d-d-sc/>

And:

<http://www.warwickhughes.com/icecore/zjmar07.pdf>

And:

<http://www.warwickhughes.com/icecore/IceCoreSprg97.pdf>

And:

<http://www.warwickhughes.com/icecore/>

And:

<http://www.youtube.com/watch?v=YrIO3ts--9I&feature=youtu.be>

And:

<http://alaskandreams.net/ekkleisia/CO2%20Levels%20in%201800.htm>

And:

<http://www.drroyspencer.com/global-warming-background-articles/carbon-dioxide-growth-rate-at-mauna-loa/>

An article about the UN IPCC controlling calculations of human CO₂ production to purport constantly rising human CO₂ production is available here:

<http://drtimball.com/2012/ipcc-control-calculations-of-annual-human-co2-production-for-political-agenda/>

I'm advised that the UN IPCC's figures for production of CO₂ by human activity are a gross figure and do not include substantial absorption of CO₂ by human activity including agriculture.

The UN IPCC often cites CO₂ figures measured at Mauna Loa observatory. It's sited on an active volcano producing CO₂. Reportedly its figures are adjusted. They have been used since 1958, just 54 years.

The UN IPCC deliberately omits reliable measurements taken during the last 180 years, including those taken by winners of Nobel prizes in science. These reveal CO₂ levels up to 40% above current levels.

Residence time of CO₂ in air is the time elapsed from CO₂'s production and entry into the atmosphere to its reabsorption from air. Scientific studies reveal residence time for CO₂ is 2-18 years with many studies commonly stating 5-7 years. Recent studies show residence time possibly less than 12 months.

Viscount Monckton explains that the UN IPCC has distorted definition of residence time to imply it is well over a hundred years. Reportedly Tim Flannery has claimed residence time to be 1,000 years.

Quotes from the documentary entitled *The Great Global Warming Swindle* follow: Professor Nir Shaviv, Institute of Physics, University of Jerusalem says, quote: “A few years ago if you would ask me I would tell you it’s CO₂. Why? Because just like everyone else in the public I listened to what the media had to say ... There were periods for example in Earth’s history when we had three times as much CO₂ as we have today or periods when we had ten times as much CO₂ as we have today and if CO₂ has a large effect on climate then you should see it in the temperature reconstruction.” Yet it cannot be seen.

Dr. Piers Corbyn, Climate Forecaster, Weather Action is a weather forecaster with a reported 85% success rate. He makes a living relying on his forecasts. He said, quote: “None of the major climate changes in the last thousand years can be explained by CO₂”.

Professor Ian Clark, Department of Earth Sciences, University of Ottawa ... *If we look at climate through the geological time frame we would never suspect CO₂ as a major climate driver ... We can’t say that CO₂ will drive climate. It certainly never did in the past.*”

Solar, ocean-atmospheric cycles and many other natural factors determine temperature that in turn drives and determines CO₂ levels. According to award-winning geologist Professor Ian Plimer cycles vary in duration from galactic cycles of 143 million years to three orbital cycles of 100,000, 41,00 and 23,000 years each, to solar cycles of 1,500, 210, 87, 22 and 11 years each and lunar cycles of 18.7 years. These combine with tectonic cycles of variable duration.

The last 8,500 years has seen six warm periods blessed with temperatures far warmer than Earth’s current modest warm period. The five interspersed cool periods brought misery.

Depending upon proximity to coasts and latitude, there can be enormous daily and seasonal cycles.

These temporal cycles are superimposed on spatial variation with tropical regions being more uniform than higher latitudes. Changes with clouds passing overhead can be five degrees. Daily temperature can vary from daytime to night by as much as 20°C. Seasonal variation can see differences of 34°C (Fairbanks, Alaska), 11°C (Sydney, Australia) or 1 or 2°C (Singapore).

Climatologist Tim Ball’s graph on CO₂ versus temperature *projections* made by unvalidated UN IPCC computerised numerical models show they got it completely wrong. That’s expected because models’ fundamental numerical assumptions reverse reality.

This graph from Tim Ball partially reveals the UN IPCC's error. Even its use of corrupted ground-based temperatures as shown reveal the UN IPCC to be wrong.

Remembering that atmospheric temperatures have been flat since 1998 and possibly falling slightly since 2006, reveals that the UN IPCC gets it completely wrong.

<http://drtimball.com/wp-content/uploads/2012/07/Moana-Loa-Co2.jpg>

It's in his article here:

<http://drtimball.com/2012/soil-moisture-illustrates-why-ipcc-computer-models-fail/>

There is no evidence that CO₂ levels drive temperature. There is abundant empirical scientific evidence for the reverse. CO₂ levels are not a cause of temperature; they are a consequence of temperature.

3. Does human CO₂ production determine the level of CO₂ in air? No. Nature alone determines CO₂ levels

Variation in Nature's production of CO₂ shows that Nature alone determines atmospheric CO₂ levels.

Empirical scientific evidence and Nature reveal overwhelmingly that CO₂ sinks and sources are not saturated. They are temperature dependent and dynamic. CO₂ levels vary as temperature varies. Please refer to the preceding section's CO₂ references and:

<http://alaskandreams.net/ekkleisia/CO2%20Levels%20in%201800.htm>

And to references posted here:

http://www.galileomovement.com.au/science_futility.php

Quoting Tim Ball: *“Modern greenhouse hypothesis is based on the work of G.S. Callendar and C.D. Keeling, following S. Arrhenius, as latterly popularized by the IPCC. Review of available literature raise the question if these authors have systematically discarded a large number of valid technical papers and older atmospheric CO₂ determinations because they did not fit their hypothesis? Obviously they use only a few carefully selected values from the older literature, invariably choosing results that are consistent with the hypothesis of an induced rise of CO₂ in air caused by the burning of fossil fuel. (** See Casey below)*

So the pre-industrial level is at least 50 ppm higher than the level put into the computer models that produce all future climate predictions. The models also incorrectly assume uniform atmospheric global distribution and virtually no variability of CO₂ from year to year.

Beck found, “Since 1812, the CO₂ concentration in northern hemispheric air has fluctuated exhibiting three high level maxima around 1825, 1857 and 1942 the latter showing more than 400 ppm.” This is higher than current levels. Tim Ball references a plot from Beck comparing 19th century readings with ice core and Mauna Loa data.

**Scientist Tim Casey's reading of early papers by Tyndall, Fourier, Arrhenius and others supports Tim Ball's comments above:

<http://geologist-1011.mobi/>

Specifically, John Tyndall's paper reveals misunderstanding of basic concepts in work by early scientists in this field:

<http://tyndall1861.geologist-1011.mobi/>

As an aside, Tim Casey explores further using physics:

<http://greenhouse.geologist-1011.net/>

The supposed greenhouse effect itself is now openly questioned. There's a healthy international debate underway among scientists and engineers. Through debate we develop understanding of Nature.

90,000 reliable measurements of CO₂ in the last 180 years reveal that CO₂ levels have during that time been higher than current by as much as 40%.

Yet the UN IPCC deliberately omitted these measurements.

Jaworowski reveals UN IPCC corruption fabricating a key CO₂ graph by sliding one of the graph's axes.

Studies of carbon isotopes in CO₂ reveal that CO₂ from volcanic activity is indistinguishable from that in CO₂ produced by burning fuels containing carbon. From scientist Tim Casey:

<http://carbon-budget.geologist-1011.net/>

From Segalstad, quote: *"It is therefore unsurprising to find that Segalstad (1998) points out that 96% of atmospheric CO₂ is isotopically indistinguishable from volcanic degassing. So much for the Royal Society's unexplained "chemical analysis". If you believe that we know enough about volcanic gas compositions to distinguish them chemically from fossil fuel combustion, you have indeed been misled. As we shall see, the number of active volcanoes is unknown, never mind a tally of gas signatures belonging to every active volcano. We have barely scratched the surface and as such, there is no magic fingerprint that can distinguish between anthropogenic and volcanogenic sources of CO₂."*

(Segalstad, T. V., 1998, "Carbon cycle modeling and the residence time of natural and anthropogenic atmospheric CO₂: on the construction of the "Greenhouse Effect Global Warming" dogma.", in R. Bate [Editor]: Global Warming: The Continuing Debate, European Science and Environment Forum (ESEF), Cambridge, England, pp. 184-219, ISBN10: 0-9527-7342-2)

American Bob Cormack and Australian Tony Cox combined to write an article analysing empirical scientific evidence on CO₂ levels. Bob Cormack is a retired senior research associate and professor at the University of Colorado. He completed a Bachelor of Science degree in Mathematics and Physics in 1969 and a Master of Science degree in Electrical Engineering in 1987. His co-author is Anthony Cox is a lawyer and secretary of The Climate Sceptics Party. Their paper is here:

<http://www.onlineopinion.com.au/view.asp?article=14581>

It reveals that human CO₂ does not determine atmospheric CO₂ levels in air.

Please note that in an email dated 21.01.13, Tony Cox advised, quote: *"The graph by Ian Hill: [graph] Is wrong in that the top line and bottom line do not include human emissions from land use change [LUC]; when LUC is added it is a constant 1.5Gt over the range from 1959.*

This would push both the top and bottom lines up and make the point weaker; however there remain many years where even with 1.5Gt added the AF, bottom line, is still insufficient to explain the increase in atmospheric CO₂, the middle line."

The same authors review the work of scientists and conclude that human CO₂ does not determine CO₂ levels in air:

<http://theclimatescepticsparty.blogspot.com.au/2013/01/defective-agw-science.html>

Derivation of faulty figures for calculation of CO₂ from human output as relied upon by senior UN IPCC academic contributor:

<http://theclimatescepticsparty.blogspot.com.au/2012/10/alan-jones-and-facts-about-co2.html>

The implications of this are enormous. Quoting Murry Salby's presentation slides: "*• Emission (of CO₂) from Natural Sources is integral to Observed Changes of CO₂. Its contribution hasn't been recognized. Nor is it represented in Climate Models. • Because it involves Emission other than Human, future Atmospheric CO₂ is only marginally predictable and, in significant part, not controllable. Changes of Human Emission (of CO₂) will not be tracked by changes of Atmospheric CO₂.*"

<http://www.youtube.com/watch?v=YrI03ts--9I&feature=youtu.be> (at 30':38" minutes)

The Galileo Movement produced a three-minute video depicting human CO₂ production in context. It's available here:

<http://www.youtube.com/watch?v=BC1l4geSTP8>

It presents fundamental numbers illustrating the insanity of claiming human CO₂ needs to be cut. Ultimately though, apart from being illustrative the numbers are overruled by Nature: human CO₂ production cannot affect CO₂ levels in air, CO₂ levels do not drive temperature and there has been no atmospheric warming for 14 years, and typically natural cooling and warming cycles during the preceding 120 years.

Given the ocean's role determining CO₂ levels in air, are we going to bubble-wrap the oceans?

Fortunately, humans do not control CO₂ levels. Nature does. Empirical scientific evidence reveals that changing human CO₂ production quantities will not lead to changes in global atmospheric CO₂ levels.

Empirical scientific evidence proves that Nature alone determines the ocean-atmosphere interaction that in turn determines CO₂ levels in air. If humans dramatically increase CO₂ production it will not affect CO₂ levels in air: the oceans will simply release slightly less CO₂ into the air. If humans completely cut CO₂ production it will not affect CO₂ levels in air: oceans will simply release slightly more CO₂ into the air.

Humans are not responsible for atmospheric CO₂ levels. Therefore human CO₂ cannot drive temperature changes.

Carbon dioxide is not a pollutant

Carbon dioxide is not a pollutant. Annually Nature produces 32 times more CO₂ than does all human activity from industry, transport mining and agriculture. Nature alone determines CO₂ levels in air. CO₂ is essential for all complex life on Earth. Please see pages 1-4 here: <http://www.galileomovement.com.au/docs/freedom1-CO2.pdf>

A quiz: <http://www.galileomovement.com.au/docs/BeliefsQuiz.pdf>

4. Is warming catastrophic or even damaging? No. Warm periods are beneficial.

Science and history prove that warmer periods are highly beneficial for life on Earth. They are beneficial for individual people, humanity, civilization and the natural environment. They increase productivity to minimise humanity's environmental impact.

Advocates for cutting human CO₂ production rarely discuss the net positive economic, humanitarian and environmental benefit from warmer temperatures. One estimate is on page 26-27 here:

http://sepp.org/publications/NIPCC_final.pdf

Claims of imminent doom from unvalidated and erroneous computerised numerical model projections such as those of sea level have all been contradicted and disproven by empirical data. Sea levels in recent decades have been essentially flat and the rate of any possible rise has decelerated (reduced). Recent satellite measurements reveal reductions in sea level. Please refer to Appendix 4a.

Empirical scientific evidence resoundingly defeats unscientific and unfounded CSIRO and UN IPCC claims. The case against human CO₂ production can be dismissed by just one of the four fundamental questions producing a negative answer. That all four are answered in the negative is an indictment of CSIRO and its intimate UN IPCC ally.

“Any reasonable scientific analysis must conclude the basic theory wrong!!” -- NASA Scientist Dr. Leonard Weinstein who worked 35 years at the NASA Langley Research Center and finished his career there as a Senior Research Scientist. Weinstein is presently a Senior Research Fellow at the National Institute of Aerospace.

http://ec.libsyn.com/p/b/f/6/bf663fd2376ffeca/2010_Senate_Minority_Report.pdf?d13a76d516d9dec20c3d276ce028ed5089ab1ce3dae902ea1d01cc8630d8c955b559&c_id=2869473

In summary, observed changes in climate fall well within the range of natural variability.

Absurdities

It's absurd that:

- There's claimed to be a supposedly ideal temperature for Earth;
- We can know that;
- We can control that.

If we could choose and control a temperature we would make Earth warmer.

If we could control CO₂ levels we would raise CO₂.

We can't control either globally. We cannot even affect either globally.

What really does drive climate?

An overview of Earth's history by an international award-winning scientist:

<http://www.youtube.com/watch?v=4rLRObEhC4I&feature=youtu.be>

What does drive global temperature? Empirical scientific evidence proves El Nino, La Nina and other regional ocean-atmosphere decadal cycles drive climate. In turn, these are driven by many natural factors including solar activity.

http://members.iinet.net.au/~glrmc/McLean_deFreitas_Carter_JGR_2009.pdf

And:

http://icecap.us/images/uploads/US_Temperatures_and_Climate_Factors_since_1895.pdf

And:

http://scienceandpublicpolicy.org/images/stories/papers/originals/pacific_decadal.pdf

And:

http://mclean.ch/climate/docs/Aust_temps_alt_view.pdf

The latter document includes a succinct appendix by the Dr. Tom Quirk. His half page conclusions accurately describe modern climate.

Climate researcher John McLean discusses natural variation in climate;

http://mclean.ch/climate/Australian_climate.htm

John McLean discusses 1976's Great Pacific Climate Shift:

http://mclean.ch/climate/docs/Ignore_natural_blame_humans.pdf

Internationally respected Canadian climatologist Professor Tim Ball discusses the causes of El Nino events?

<http://drtimball.com/2012/what-causes-el-nino-la-nina-ipcc-doesnt-know-but-builds-models-and-makes-projections-anyway/>

Australian Ken Stewart and New Zealander Bryan Leyland are successfully using this known relationship to accurately predict temperature.

And:

http://icecap.us/images/uploads/EE_paper_on_SPPI.pdf

<http://www.youtube.com/watch?v=4rLRObEhC4I&feature=youtu.be>

Scientists have identified many factors driving climate. These include galactic, solar system, solar, planetary and lunar. Many are cyclic with cycles ranging from 150 million years to 11 years. Seven strong drivers are:

- Solar: (1) variations in sun's solar output; (2) Output of solar particles; (3) Sun's magnetic field polarity and strength;
- Water vapour: (1) atmospheric water content; (2) Cloud cover;
- Cyclic regional decadal circulation patterns such as North American Oscillation and the southern Pacific ocean's El Nino together with their variation over time;
- Ocean: (1) temperature; (2) salinity; (3) currents; (4) sea surface temperatures;
- Volcanic activity;

Others are listed on page 24, here:

http://www.conscious.com.au/_documents/Thriving%20with%20nature%20and%20humanity_single.pdf

Meteorologist Joe Bastardi reveals that current cyclic weather patterns are similar to those of the 1950's:

<http://stevengoddard.wordpress.com/2012/07/17/joe-bastardi-show-parallels-to-the-1950s-and-tells-us-what-to-expect-looking-forward/>

Quoting from an email from Joe:
“As a degreed meteorologist that was taught by another degreed meteorologist (dad) that a huge key to the future is the past, I cant see how anyone is able to blame AGW for current pattern. It is straight out of the 1950s, and the disconnect of the co2 rise from the global temps is simple to explain. The warming pacific, then the Atlantic added heat to the atmosphere to a point where no more was added, Temps leveled off and now are starting a all falling [sic] in response to the cooling pacific and will simply cool back to where they were in the late 70s, once the Atlantic flips. Only since the late 1970s, at the end of the last cold cycle of the pacific, have we been able to measure temps objectively*

How co2 gets any credit is beyond me. Its like a pitcher throwing curve balls to the top of the order, fast balls to the bottom. The top of the order comes back up he throws curves and the announcer says its because he has a different baseball.

One only need acquaint themselves with the past weather to see the linkage. As someone that grew up being constantly reminded that the weather is constantly searching for a balance because of the immense natural drivers and their responses, asking a trace gas to run the shooting match is akin to blaming obesity on a hangnail. While NOT as versed as the learned people arguing here may I suggest that one looks to the past. A suggested read to show how close this is to the 1950s so why if almost the same thing is occurring now as 60 years ago, when the same set of cyclical large scale drivers with far more implications on the earths system are doing the same thing are we even bringing c02 into this. Added is the co2 vs global temp overlay and the IPCC forecast”.

End quote.

* AGW is Anthropogenic (human caused) Global Warming

The UN IPCC and advocates promoting climate alarm have downplayed solar influences on Earth's climate. Cracks are appearing in their façade:

<http://principia-scientific.org/supportnews/latest-news/98-breaking-nasa-u-turn-admits-global-warming-bias-on-sun-s-key-role.html>

Reportedly NASA is now admitting that the sun's influence on climate is very significant. This has consistently been the message from real climate scientists all along.

Scientist Willie Soon on solar influences:

<http://sppiblog.org/news/tattoo-this-its-the-sun-stupid#more-8547>

A NASA scientist forecasts using natural climate factors:

<http://sharpgary.org/FletcherForecast.html>

As do Piers Corbin, Brian Leyland and Ken Stewart.

Scientists predicting cooling:

<http://www.prisonplanet.com/scientists-of-the-russian-academy-of-science-“global-warming-is-coming-to-an-end---return-to-early-1980s-level”.html>

Conclusions

The claim that the climate on a planet with 4.5 billion years of history can be understood by presenting 60 years of corrupted data on a natural trace gas essential for all life on Earth is absurd.

On a beautiful and dynamic planet driven by galactic, solar system, planetary, geologic and other forces the claim that 130-250 years of corrupted ground-based temperatures could explain climate is absurd.

Ignorance combines with arrogance to compare puny human forces with Nature's galactic, solar, planetary, ocean and atmospheric factors driving climate. This ignorance combined with lack of understanding of variation enables alarmists to misrepresent science and scare people.

It's absurd that 4.5 billion years of climate and geological data can be ignored.

Canadian environmentalist Lawrence Solomon's book entitled *The Deniers* presents experts in fields across climate. It's easy to read and discusses topics from drivers of climate to consequences of climate change. The author set out to debunk climate change sceptics yet based on extensive empirical data became sceptical.

As Canadian climate professor Tim Ball explains, true scientists and those applying science in the real-world understand that, quote: "*Science works by creation of theories based on assumptions, in which scientists performing their proper role as sceptics, try to disprove the theory*". Once a theory passes tests and criticism it is accepted.

Did government fail to do its due diligence?

Why is government spending so much money and effort misrepresenting and hiding Nature and science from taxpayers?

Why is government supporting the corrupt UN IPCC?

Climate realists and true scientists remain sceptics until receiving empirical scientific evidence and scientific logic as proof of causation. Empirical scientific evidence proves that Nature drives and controls global climate and global temperature.

There is no observational (empirical), physical or logical basis for the claim that human CO₂ causes catastrophic global warming.

Physicists, climatologists, geologists and scientists from many fields now hotly dispute the supposed theoretical basis in the claimed greenhouse gas effect of radiative warming. The claimed supposed theoretical basis is planned to be the subject of a future update.

Sound science is based on solid empirical scientific data as evidence, sound analysis and considered judgment. Using this rule shows no unusual warming in Earth's climate

David Karoly's and Will Steffen's connection

David Karoly and Will Steffen are prominent academic advocates of human causation of catastrophic global warming. Both are funded by government. Both publicly falsely contradict the empirical scientific evidence presented above.

Canadian environmentalist Lawrence Solomon published his interviews of prominent independent scientists expert in many fields in his succinct and readable book entitled *The Deniers*. They confirm nothing unusual occurring in climate and reveal natural causes of climate variability.

Another easily readable and comprehensive book is entitled by *Air Con* by New Zealand investigative journalist Ian Wishart.

The rooster crowing at sunrise is not evidence the rooster caused the sun to rise
Adapted from a speech by Aung San Suu Kyi

It is possible though to build a computerised numerical model
linking sunrise to rooster crowing.