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PIERS CORBYN

Man-Made Climate Change Does not Exist!

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- Piers Corbyn argues that Man-made Global Warming caused by CO₂ is “nonsense”. Instead, he argues that “In the long run CO₂ levels are an EFFECT NOT A CAUSE of changes in Climate / temperatures,” and that it is the sun that drives climate.
- He challenges whoever is willing in Reading University or other appropriate institutions to a debate on the failed Global Warming scam vs evidence-based science.
- Piers Corbyn is an astrophysicist and Director of WeatherAction long range (months and years ahead) forecasts. He has a First class degree in Physics from Imperial College and an MSc in Astrophysics from Queen Mary College. He has published numerous peer-reviewed scientific papers, starting from an early age, on subjects ranging from meteorology to cosmology and galaxy formation and has presented at many international conferences.

The mainstream media peddle the claim that 97% of (climate) scientists believe in man-made Global-Warming and that, therefore, there is no debate to be had on the subject. This is false and irrelevant. To get the 97% figure, they basically counted people who had mentioned Climate-Change in an abstract or heading of a scientific paper. Dr Legates* has reviewed the work and shows that, in fact, only 0.3% of the papers claim that ‘man had caused most post-1950 warming’. Nonetheless, science isn’t about consensus, it is about facts; and no Global-Warming Inquisition is going to prevent me exposing their nonsensical theories. So here goes.

“... not only is the man-made Global Warming story false, the tax and control policies pursued because of it are hugely damaging for ordinary people.”

The “Climate-Emergency” story says that the trace gas CO₂ (0.04% of air) is the main “control knob” of weather extremes and climate, and that Man’s CO₂ – 4% of 0.04% of the atmosphere – is a major dangerous factor in this. Therefore, the story concludes, you must be taxed and controlled.

To put that in perspective, imagine if the whole atmosphere is represented by a rod the height of Big Ben’s tower (316ft); the level of CO₂ in the atmosphere is about 1.5 inches (38mm) on top and Man’s contribution to that CO₂ is between 1 & 2 mm – a pigeon dropping – on top. Look at the Big Ben picture and think about what climate alarmists are claiming!



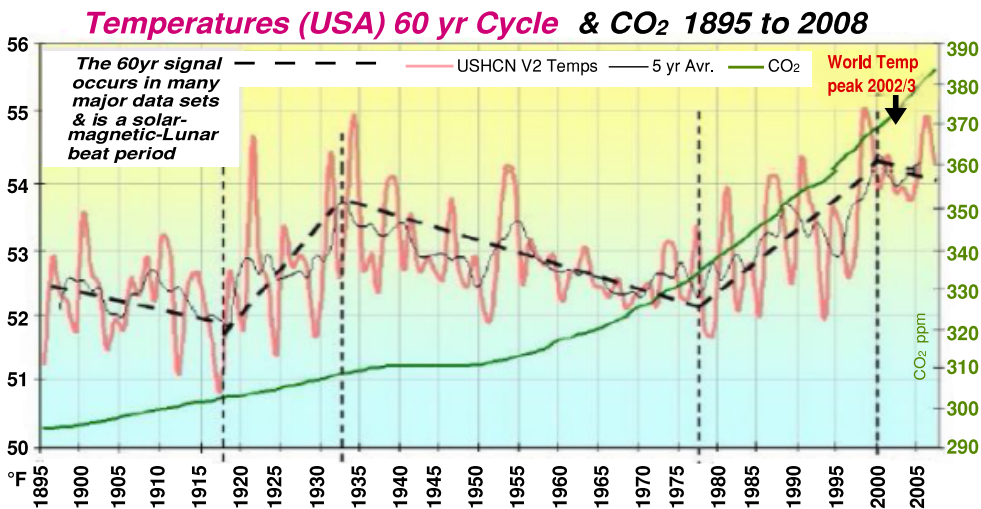
For the narrative to be true REQUIRES:

- 1. Man’s (4%) CO₂ to control the rest of (96%) CO₂.**
- 2. CO₂ to be the main controller of temperature and climate.**

BOTH CLAIMS FAIL AGAINST SCIENCE, and are not made any less false by any number of new or old ‘celebs’ generating large carbon footprints by attending “Save-The-Planet” stunts where they tell us all to not fly, not eat meat, not drive cars, not breath etc. Nor do the industrial scale official temperature data set “adjustments”, alarmist forecasts which never come true, or the hysterical propaganda claims of “record” heat at questionably selected urban heat islands, make falsity valid.

The first contention, the idea that Man’s CO₂ controls the rest of natural CO₂ – plant growth and decay, termite CO₂/Methane production (which is significantly more in net supposed “greenhouse” effect than Man’s – and

thus it is questionable as to why we have not declared war on termites), volcanoes etc etc. – is an absurd conspiracy theory of nature. There is no evidence for this madness. Do termites increase CO₂ production when you ride in a bus around your town, simply because your CO₂ is human produced? The second assertion, that CO₂ controls climate is negated by observations.

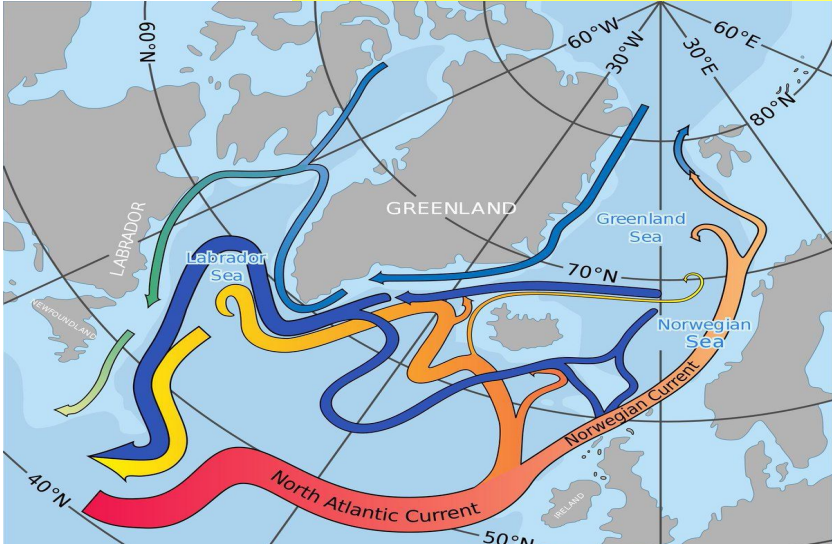


In the long run CO₂ levels are an EFFECT NOT A CAUSE of changes in Climate / temperatures. Sea temperatures rule CO₂ as the oceans hold 50 times more CO₂ than the atmosphere. If the sea warms, CO₂ is released (like warming a glass of fizzy drink) and if it cools it absorbs CO₂ from the air. This happens on a daily/weekly/monthly/yearly basis and on average CO₂ in the whole atmosphere stays around for a few years before going back into the upper levels of the ocean or into the soil; CO₂ levels in these relatively small changes LAG behind temperature changes. [REF.1,2,3,4,5,8]

On longer time scales extra CO₂ emitted from the sea surface in warm periods gets swallowed up into the cold deep ocean by currents off e.g. Greenland and emerges 500-800 years later in the air over the Pacific etc. after a long deep sea trek - see overleaf. So, the amount of CO₂ in the atmosphere, over the long run, is an effect, and not a cause, of temperatures and lags behind the climate by about 500-800years.

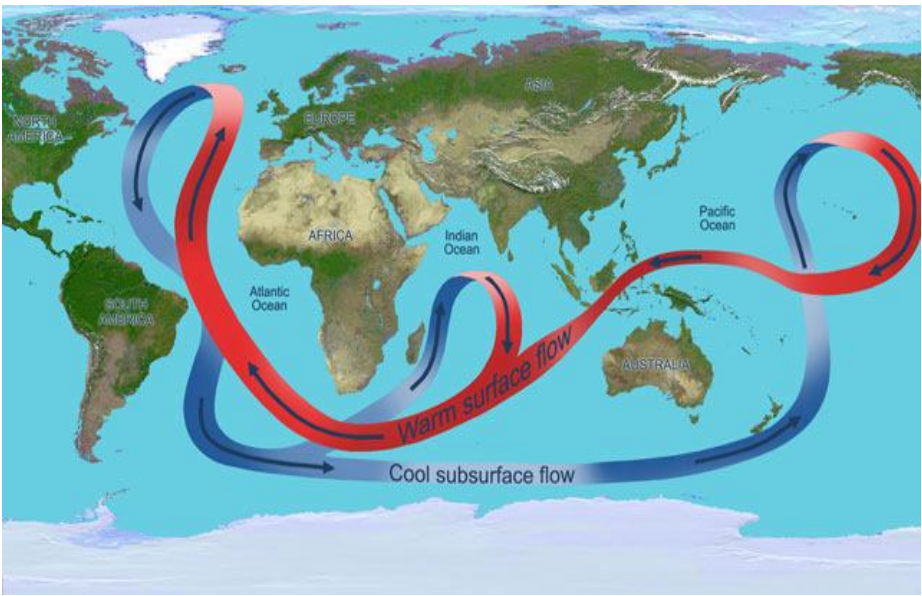
CO₂ levels FOLLOW (sea) TEMPS

* Dynamic (Sea surface – air); Air residence time ~3yrs
* Large scale Ocean circulation; CO₂ lags temp ~500-800yr



CO₂ levels FOLLOW (sea) TEMPS

* Large scale Ocean circulation; CO₂ lags temp ~500-800yr



This is backed up by **observable scientific data**. On the scale of decades over the last hundred or so years, and in spite of what climate alarmists claim, CO₂ has been steadily rising while temperatures have oscillated – half the time moving with and half against – see graph on page 3 of USA temps (pink+black) & CO₂ (green). Over a longer period, **ice-core data shows that CO₂ levels, smoothed over centuries, FOLLOW world CLIMATE temperatures by about 500-800years**. This is shown in the graph below.



At the end of the last ice age temperature changes LEAD by 800yrs

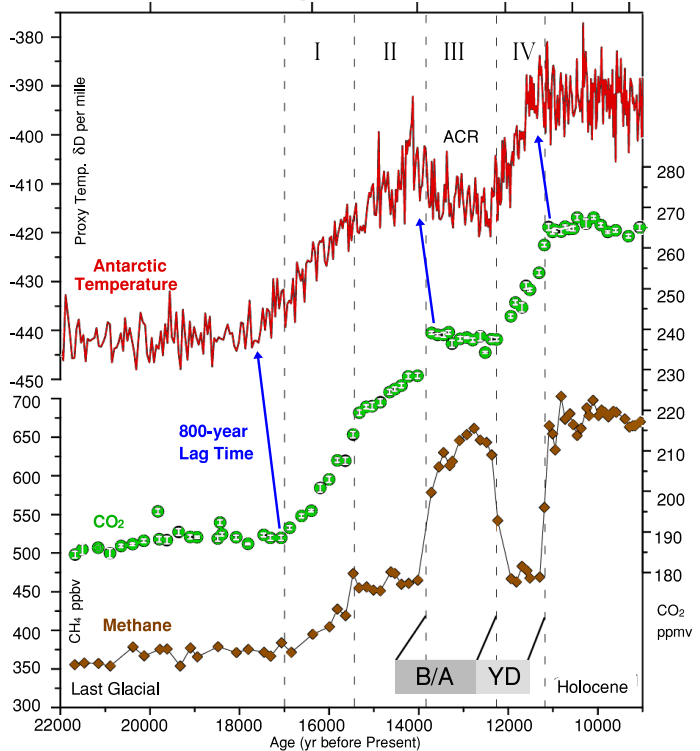
Similar leads are in Antarctic Termination III 240kyr ago. (Caillon et al. Science March 03)

Diffuses through ice: data points are, at best, 200 yrs apart and show only small variations between points. This is because CO₂ is a gas and diffuses into centuries of ice layers. The present spike will amount to a mere blip in 1,000 years' time.

There is NO Evidence that the present rapid rise is unique.

Inconvenient Truths for GW Orthodoxy!

Temperatures drive CO₂ as ice ages end. Fast CO₂ changes (like now) are hidden.

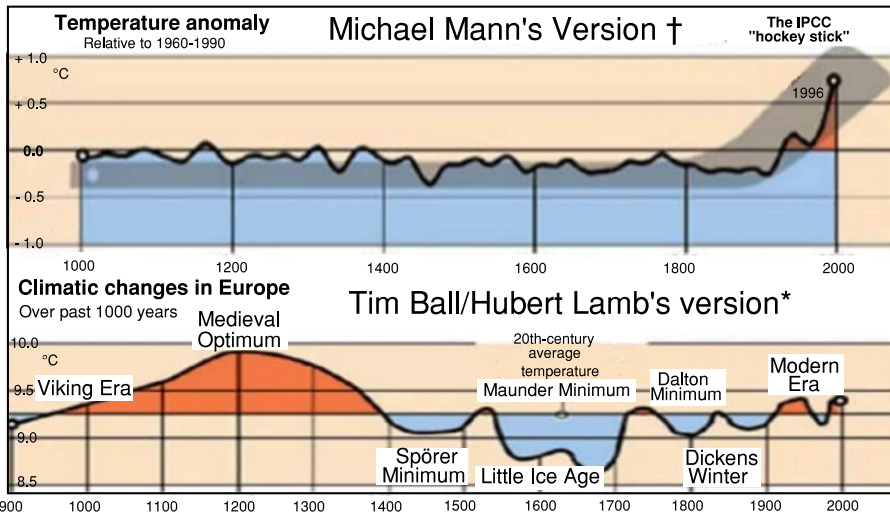


The current increase in CO₂ levels in the last 100 years is an after effect of the medieval warm period. This took place around 500-800 years ago and was warmer than our current period, despite having fewer people burning fewer fossil fuels, by about one degree worldwide, or at least two degrees in parts of temperate zones. It was a period of economic boom for most of Europe where crops grew faster etc. But most importantly, it was the heat-

ing during that period which has been driving the rising CO₂ in the atmosphere over the last hundred or so years.

This “tail wagging dog” problem is known to Climate Scientists. Their response is something like “Yes but the extra CO₂ that comes off AFTER temperatures go up then makes it extra warm.” This assumes what it’s trying to show – that CO₂ has warming powers – and means there would have to be another peak or raising of temperatures AFTER the peak or top level in CO₂. **THAT IS NOT OBSERVED** (check the graph on page 5 for yourself).

Battle of the graphs: Mann versus Ball



*Originally established by Prof Hubert Lamb (UEA-CRU) and accepted by the IPCC in 1990.

†Hockey stick graph REF.6

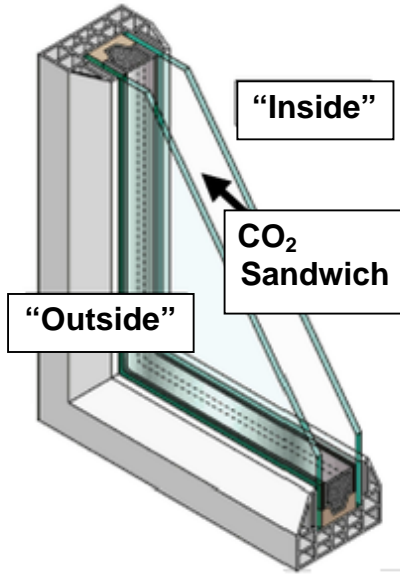
Global warmist Iconic Hockey stick graph is fraud - Official

- The contentious - widely shown by the BBC, Extinction Rebellion and the IPCC - “Hockey Stick” graph, showing pretty uniform world temperatures for a thousand years until a recent supposed man made large increase, is now proven fraud.
- The recent court judgement in Canada in which Michael Mann lost his libel against Tim Ball for refusing to provide evidence that his (in)famous graph wasn't fraud means the main icon and evidence of the Global warmist lobby is destroyed.

The CO₂ double glazing business that went bust!

The idea was that the CO₂ sandwiched between the glass panes sends extra heat “back” to the inside. Really? Why not send extra heat “back” to the other side (“outside”)? The window does not know which side is which! What if the CO₂ sandwich window is between two rooms at the same temperature? It sends extra heat to both? Where did the extra heat come from?

Something for nothing again! - Bad Physics!



The idea that CO₂ has magic warming powers is based on Fake Physics!

The BBC and schools use a “back radiation” explanation of Global warming by a “CO₂ blanket” – that is, the increased CO₂ in the atmosphere forms a blanket preventing heat returning into space, thus keeping the Earth warm. An American double-glazing company apparently believed this nonsense and tried to make “better double glazing” by putting CO₂ into the inter-glass space – yes, they went bust... [REF.7]

This is because it is contrary to basic physics! Objects in a “radiation enclosure” will actually balance out to the same temperature (reach equilibrium) **independent of their colour** (Physics is non-racist!). A white, grey or black ball will warm at different rates, yes, but they reach the same temperature (absorption=emissions) – and this is the same for regions of CO₂ enriched air. Indeed, if their nonsensical theory was true, the CO₂ would emit more heat than it would absorb, from which we could power a heat engine forever, thus breaking the first law of thermodynamics (as we get something for nothing). The second law of thermodynamics (a receiving object cannot get hotter than its source) is also broken, because the theory requires extra CO₂ in the atmosphere to get extra warm compared with its

source (the earth), which it sends back making the ground extra warm – like a Ponzi scam investment scheme! In other words the “back-radiation” model of Greenhouse effect is delusional nonsense.

“...data shows that levels... FOLLOW world CLIMATE temperatures by about 500-800years.”

Better scientists know that the CO₂ blanket / “back radiation” theory is bad physics and resort to another more valid explanation, but which, in the end, also fails. The better approach is to examine the lapse rate – the fall in temperature as we go higher in the atmosphere, or the height above ground at which heat (radiation) escapes into space; the existence of the lapse rate actually has nothing to do with CO₂ or any other so called “greenhouse” gas. Nonetheless, if there are more greenhouse gasses around – CO₂ etc. – the height at which radiation can more easily escape, all things being equal, goes up. This slightly deeper (from radiation outgoing “top” to ground) atmosphere leads to the ground getting warmer (because you go further down from there to reach the ground). That all sounds OK (even if a small effect)! However, this model also says that with more CO₂ the upper atmosphere at a certain level will get warmer. Based on this, a hotspot above the

Fake Physics sorted - More Detail

The reason is that radiation goes as the 4th power of temperature and the mean of a range of 4th powers is bigger than the 4th power of the mean [e.g. Take 1,2,3; $(1^4+3^4)\div 2=41$ which is bigger than $2^4=16$].

equator was predicted as CO₂ increased from 2000 to 2010.

However the hotspot turned out to be a coldspot!

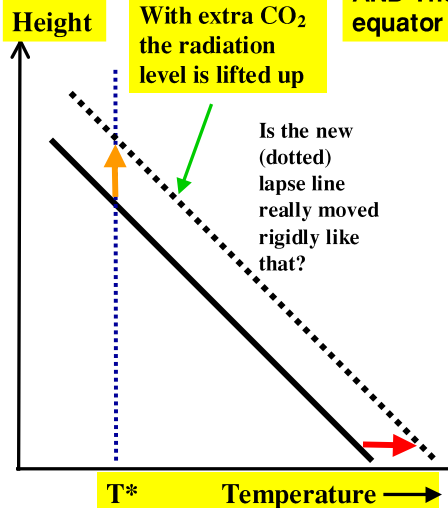
Why did the theory’s predictions fail? Because physicists were trying to over-simplify reality. The heat-exit height is not at a static temperature but

has day night fluctuations which get larger when there is more CO₂ (and other “greenhouse” gasses) and this makes more cooling (further explained in box Fake Physics sorted - More Detail) – thus giving us the observed cold spot (which, lapse-rated to the ground, makes a relative cooling which can negate the original expected surface warming). See pages 9 & 10.

Why CO₂ theory does not work

The atmosphere is colder higher up due to gravity. More CO₂ shifts the outgoing radiation level (Temp T*) & 'lapse' line up ↑. So it should get warmer there → & on surface. **BUT IT DOESN'T**

AND The GWers predicted **HOTSPOT** above the equator is **NOT THERE**. It's a **COLDSPOT** instead.



What's Up? PHYSICS Possibilities

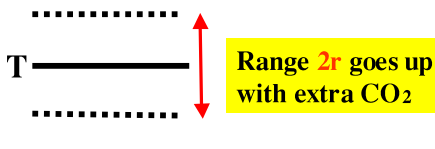
Apart from **IMPORTANT** change in clouds/ reflectivity of atmosphere & *evaporation from oceans!*

1. A day night effect causes extra upper level cooling for more CO₂
2. Changes in lapse rate curve due to changes at different levels
3. **COOLING FEEDBACKS** - eg: Transpiration cooling by plants of the surface increases with CO₂.

Why CO₂ theory does not work

In the real atmosphere there are day/night temperature fluctuations (eg in upper atmosphere). They are larger with more CO₂ because CO₂ (infra red absorber / emitter) gains & loses heat easier than N₂ & O₂ and so enables all the air to adjust quicker.

Temp



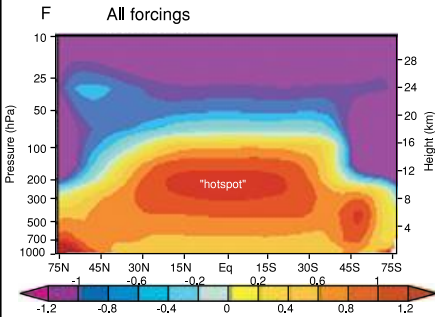
For cold spot 0.1deg, T~240K extra range about same as original range, r, 2r is about 5 or 6 deg. This is maybe higher than obs estimates.

$$\text{Average radiation out is } = 0.5 b [(T+r)^4 + (T-r)^4]$$

Work it out for the same radiation. For an increase Δr in half range, T will have to go DOWN: $\Delta T = -3 \Delta r \times r/T$ (Detail subject under research)

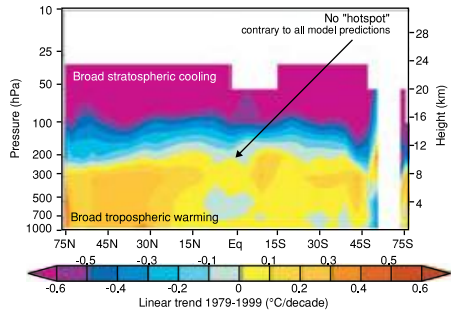
This could (help) lead to a **COLDSPOT** on the equator - which is **observed!** AND shift the lapse line (at upper level) back to where it was.

CO₂ theory does not work



THEORY of HOTSPOT

For cold spot -0.1deg , $T \sim 240\text{K}$ extra range about same as original range, r , $2r$ is about 5 or 6 deg. This is maybe higher than obs estimates but not absurd. There may be magnifiers.



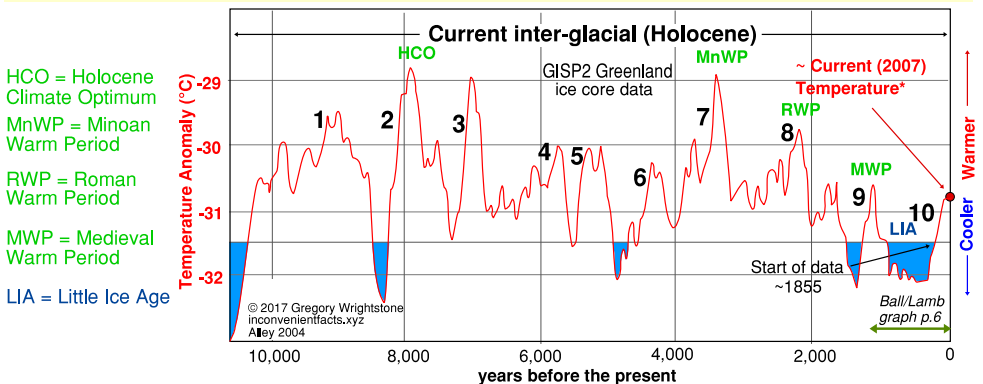
OBSERVED COLDSPOT

What we *don't* see is a hotspot at the top of the tropical troposphere. There is no hotspot at all at 10-12km up, from 23°N to 23°S: indeed much or most of the troposphere there cooled the region where the hotspot would be.

Info Thanks to: <http://sciencespeak.com/MissingSignature.pdf> by David Evans

So, if sea temperatures rule CO₂, what rules climate temperature? The Sun rules the climate! See page 3, '60 year cycle'. Smoothed world temperatures are nothing to do with CO₂ and follow solar activity. In the graph on page 3, the black dotted line is added to show the ~60year solar-magnetic/Lunar cycle which we at www.WeatherAction.com <http://bit.ly/2GA0MQy>

10,000 years and 9 warming periods remarkably similar to present-day warming (but all warmer)




Alley, R. B. 2004 GISP2 Ice Core Temperature and Accumulation Data IGBP PAGES/World Data Center for Paleoclimatology Data Contribution Series #2004-013. NOAA/NGDC Paleoclimatology Program, Boulder CO, USA 'Current Temp: Box JE. Yang L. Bromwich DH. Bai L (2009) *Greenland Ice Sheet Surface Air Temperature Variability: 1840-2007, American Meteorological Society, *Journal of Climate* Vol 22, pp 4029 - 4049

show as the main likely cause of fluctuations in climate temperature over the last century. Likewise, previous Little Ice Ages all occurred when solar activity was low – e.g. the Maunder Minimum (~1645-1715) and Dalton Minimum (~1790-1830); see page 6 for the Ball-Lamb temperature graph and below for more warm periods. Yes, the sun, that big ball in the sky, is far more important for the climate than we are...

Indeed, the sun's current activity suggests that another new Little-Ice Age is upon us. The recent low activity solar cycle 24 and expected low cycle 25 mean we are at the early part of another Little Ice Age. There are many sub-cycles especially involving the magnetic solar ("Hale") cycle (~22yrs NOT the ~11yr cycle), and Timo Niroma showed that 10 Hale cycles give an approx (smoothed out) repeating pattern of solar activity and hence ~Temperatures. The last 10,000 years – the relatively warm 'interglacial' period since the last ice age – has had 10 sub peaks of warmth. The previous 9 have all been warmer than this one while they had LESS CO₂. This peak, smoothed on scales of say ~60yrs, has ended – and the true peak was probably ~1930s/40s judged (eg) by the annual number of days 100F & 110F are exceeded in USA. The ~22yr and ~60yr fluctuations are smaller. This says one thing. **We're at the knee of the expected curve match with ~221 yrs ago. Another Dalton/Maunder level minimum is upon us.**

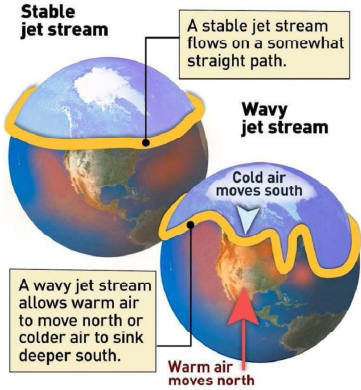
Our current weather extremes match a developing little ice age. This



WildJet Stream / Little Ice Age circulation also gives (short) Hot blasts at times

Eg The Belgian wind of 1666 just before the Great Fire of London

The Changing Jet Stream



Stable jet stream
A stable jet stream flows on a somewhat straight path.

Wavy jet stream
A wavy jet stream allows warm air to move north or colder air to sink deeper south.

Cold air moves south

Warm air moves north

CBC NEWS
SOURCES: NOAA, Scientific American

year's weather extremes and contrasts, which were well predicted in long range by www.WeatherAction.com come from wild, on average south-shifted, jet stream swings. These are the wrong type of extremes for the CO₂ story which must have a generally warmer world and so a North shifted, shorter, less wavy Jet stream.

Occasional EXTREME hot blasts and extreme cold periods, as we have been experiencing, are a signature of Little-Ice-Age circulation: for example, some weeks of the hot 'Belgian Wind' 1666 parched London but the Thames froze many times in Winters around then.



Late July 2019 Weather hysteria Events *DISPROVE* CO₂ story !

- **BBC screams [HottestUKJulyDay](#) ignores recent RecordCold across world. The WILD CHANGES are due to WILD [JetStream](#), OPPOSITE of [CO₂](#)-warming flat JetStream. 1666 London fried in heat blast b4 GreatFire+had MANY [LittleIceAge](#) winters**
- **Claims recent [ClimateChange](#) is 'unparalleled' in 2000yrs proves it's [fakescience](#) +DataFraud. Recent 'warming' is more worldwide than in past because it's from official (admitted) 'adjustments' upwards worldwide. [bbc](#) & [@nature](#) look at past but [coverup](#) recent [@NOAA@WMO](#)fraud.**
- **The 2nd reason we see recent [CO₂](#) "warming" as fraud is: all heat extremes are from wild [jetstream](#), THEREFORE we expect uneven averages over world. HOWEVER modern "warming" is MORE UNIFORM; because EXTRA [Fakewarming](#) has been added to cold parts.**

The BBC, mainstream media, establishment and energy companies recognise this. They usually respond with dishonest exaggerations of heat using dodgy urban heat island data to pretend the world's warming when it's now cooling. Their data "adjustments" (fraud) which have likely "increased" recent temps by about 0.5 to 1C have been exposed by the late Christopher Booker*, Tony Heller: www.realclimatescience.com, and www.weatheraction.com. The figure is a sample of their hype; also, see the box on page 6 *Global warmist iconic Hockey stick graph is a fraud*.

Indeed, in 2004 I presented to the elite Global Oil Summit, Houston Texas where I was well received by the various attendees (including Director of Iraqi oil, the US military, Putin's chief economic and science policy advisor etc.). Afterwards the then (retiring) Chief Executive of a major oil giant came to me and showed similar graphs to what we had produced

saying that they were ‘on the case’ and wanted my ‘independent corroboration’. Following this, we decided that we would approach oil companies for money (along with the UN so we could keep impartial), but the oil companies came straight back with, “We like Mr. Corbyn’s work but we will not be able to fund him **because we don’t want to upset the Green Lobby.**” From this event in 2004 the Oil companies accepted Solar activity drives climate but decided to go with the CO₂-driver fake science to make higher profits (from rising oil prices) and have stuck with that position and are happy to be portrayed as a false enemy of the (so-called) Green Lobby as long as it boosts profits. Their deal with governments is that *they go along with anti-CO₂ measures “as long as there is a uniform price for carbon across the board”* (see their websites via my Presentation <http://bit.ly/2GA0MQv>). Hence the increased energy charges (subsidies) needed to make biofuels, wind farms etc “economic” mean a huge ongoing increase in their profits. Note, on a world scale only 2% of energy is “sustainable”.

“Our current weather extremes match a developing little-ice age.”

However, not only is the man-made Global Warming story false, the tax and control policies pursued because of it are hugely damaging for ordinary people. It is these green policies which have been de-industrialising our country (which really just exports – not reduces – CO₂ emissions abroad at the expense of jobs in Britain), increasing energy prices for the poorest, and causing mass power cuts in developing countries*. The population of bats, birds and pollinating insects is endangered by wind farms, and EU regulations push for deadly flammable building insulation – as in Grenfell Tower (details from: philip.foster17@ntlworld.com). Millions die of fuel poverty related causes due to Climate policies every year. The largest victim group is African women suffering & dying from smoke inhalation due to open cooking fires because “sustainable” climate policies hold back coal-fired power station electrification of Africa (and thus hold back economic development) – effectively, UN-EU Climate policy is racist. I Could Go On.

It is for this reason that I, Piers Corbyn, **challenge whoever is willing in Reading University or other appropriate institutions to a debate on the failed Global warming scam vs evidence-based science.**

* Also in the UK in August 2019

Campaigns

- Join in [#Action4Life!](#) [#isGOOD4You!](#) [#RealGreenNotFakeGreen!](#)
- The BBC must answer [#Scientists4Truth](#) challenge – Give evidence drives Climate.

References

1. On short time scales of changes involving sea surface and land with air CO₂ changes LAG temperature changes by ~10 months, ref. Salby.
2. See Mike Haseler (on Prof Murry Salby) *Climate: What we know and What we don't* [abbr. MH-MS below], Fig 12, ISBN 1901546640 via St Matthew Publishing philip.foster17@ntlworld.com
3. The large slow changes of CO₂ involving deep sea cold water subduction lagging temperature by ~500-800yrs are imposed on shorter term changes smoothed over ~decades, involving land and sea surfaces.
4. The 'lifetime' of CO₂ in air is a few years. It must be a fraction of CO₂ decay time (~9yrs) for CO₂ containing C¹⁴ created by nuclear testing [MH-MS]. Prof Salby soundly shows IPCC (Bern Model) claims for longer lifetimes are false.
5. The main sources of CO₂ into the atmosphere are from Tropics NOT from the industrial Usa-Europe-China temperate belt [MH-MS showing SCIAMACHY satellite].
6. Article further detailing the Hockey Stick case:
<http://www.mikesmithenterprisesblog.com/2019/08/the-iconic-image-of-global-warming.html?m=1>
7. principia-scientific.org April 7th 2016.
<https://principia-scientific.org/industry-experts--worse-useless-trapping-heatdelaying-cooling-2/>
8. Prof. Murry Salby lectures:
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www.youtube.com/watch?v=rCya4LilBZ8
3rd Lecture 18th July 2016 at UCL
www.youtube.com/watch?v=sGZqWMEpyUM

Websites and Twitter feeds:

www.weatheraction.com @piers_corbyn @action4life_
www.notalotofpeopleknowthat.wordpress.com
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www.climatedepot.com @climatedepot
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[@drtimball](https://twitter.com/drtimball)
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Richard Lindzen is the Em. Alfred P Sloan Professor of Meteorology, Department of Earth, Atmospheric and Planetary Sciences, at the Massachusetts Institute of Technology. Prof. Lindzen is a recipient of the AMS's Meisinger, and Charney Awards, the AGU's Macelwane Medal, and the Leo Huss Walin Prize. He is a member of the National Academy of Sciences, and the Norwegian Academy of Sciences and Letters, and a fellow of the American Academy of Arts and Sciences, the American Association for the Advancement of Sciences, the American Geophysical Union and the American Meteorological Society. He is a corresponding member of the NAS Committee on Human Rights, and has been a member of the NRC Board on Atmospheric Sciences and climate and the Council of the AMS. He has also been a consultant to the Global Modeling and Simulation Group at NASA's Goddard Space Flight Center, and a Distinguished Visiting Scientist at California Institute of Technology's Jet Propulsion Laboratory. (Ph.D., 1964, S.M., 1961, A.B., 1960, Harvard University).

Dr Murry Salby

Professor, Faculty of Science, Macquarie University, 2008-2013.

Professor, Department of Atmospheric and Oceanic Sciences, University of Colorado, 1997-present.

Visiting Scientist, Bureau of Meteorology Research Center, Melbourne Australia, 2007 etc.

Book: Physics of the Atmosphere and Climate Murry L. Salby, 2012, Cambridge University Press.

Murry's lectures:

1st lecture Nov 2013 www.youtube.com/watch?v=uTpSlhGiHEQ

2nd Lecture 17th March 2015 in London: www.youtube.com/watch?v=rCy4LilBZ8

3rd Lecture 18th July 2016 at UCL www.youtube.com/watch?v=sGZqWMEpyUM

The next section, *Settled Science?* is written by Philip Foster.

Philip Foster has an MA in Natural Science & Theology from Cambridge. He is a speaker on the climate issue. He has spoken at Copenhagen (2009), Prague, Paris (2015), Porto University (2018) and at the EU parliament. He is the author of *While the Earth Endures: Creation, Cosmology and Climate Change*, with a foreword by the late Prof. David Bellamy OBE.

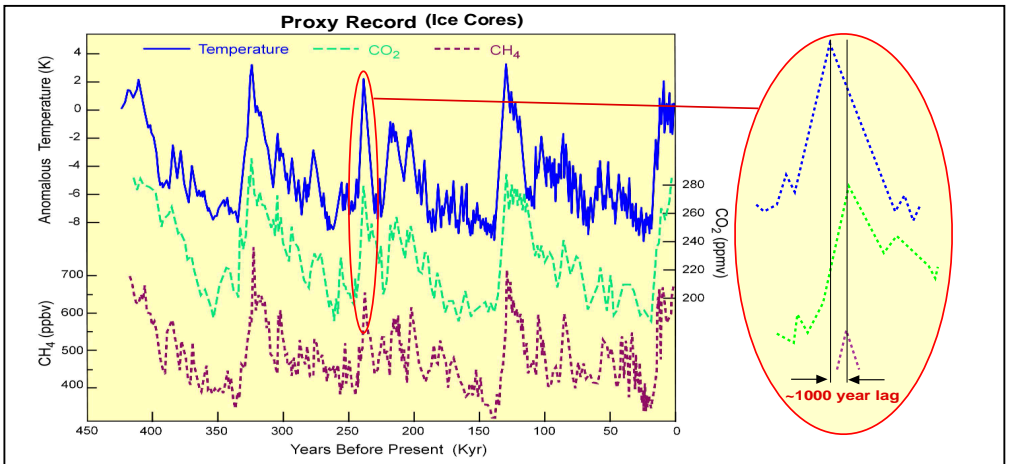
It contains yet more disproofs of the alarmists' dogma. The trouble is that we are dealing with 'Zombie science' — it's dead but it still 'walks'!

Settled 'science'?

*"No amount of experimentation can prove me right.
A single experiment can prove me wrong."* Albert Einstein 1922
NULLIUS IN VERBA — old motto of the Royal Society

The hypothesis that CO₂ drives climate change and that human emissions are greatly increasing this effect rests on three pieces of evidence:

1. The ice core data
2. Modern rising levels of CO₂ (from 0.03% to 0.04%)
3. The fall in the proportion of ¹³C in atmospheric CO₂



The ice core data:

James Hansen of NASA told reporter Robert J. Bidinotto, on 10th Oct. 1989, "... in fact, the CO₂ changes do seem to follow the temperature changes, not precede them." This is hardly a surprise as warming causes outgassing from the sea and more organic decay on the land. This was just sixteen months after Hansen's infamous declaration to the US Senate that catastrophic man-made global warming had started.*

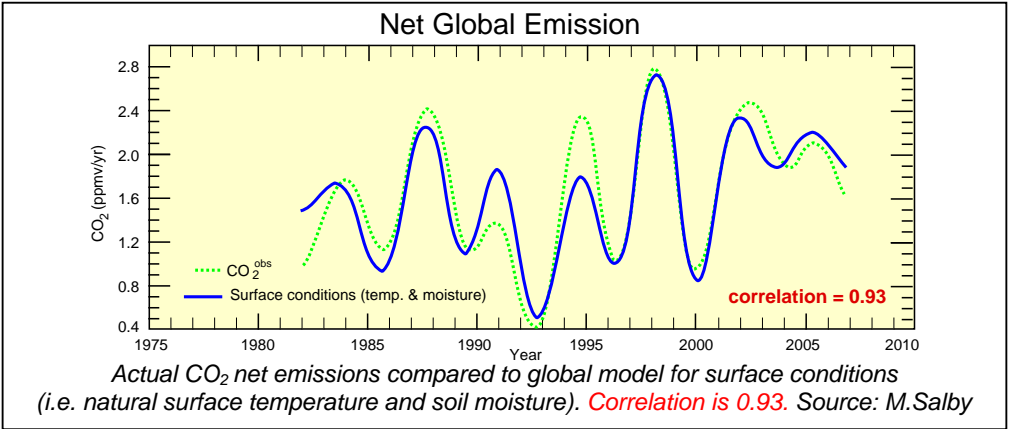
It is clear that CO₂ did not drive temperature in the past, as, when CO₂ reached a maximum, temperatures had been falling for nearly a thousand years.

The CO₂ trapped in the ice cores is stored non-conservatively; the older the core the more CO₂ has been lost by various dissipative processes. At 400,000 years' 'depth' the CO₂ is under some 500 atmospheres' pressure. The removal of a core is like uncorking a champagne bottle—the outgassing can be physically heard when a core is extracted. Consequently the ice core data are very likely greatly underestimating the true CO₂ levels. It follows that current levels of CO₂, though rising, are low compared to even the past few hundred thousand years.

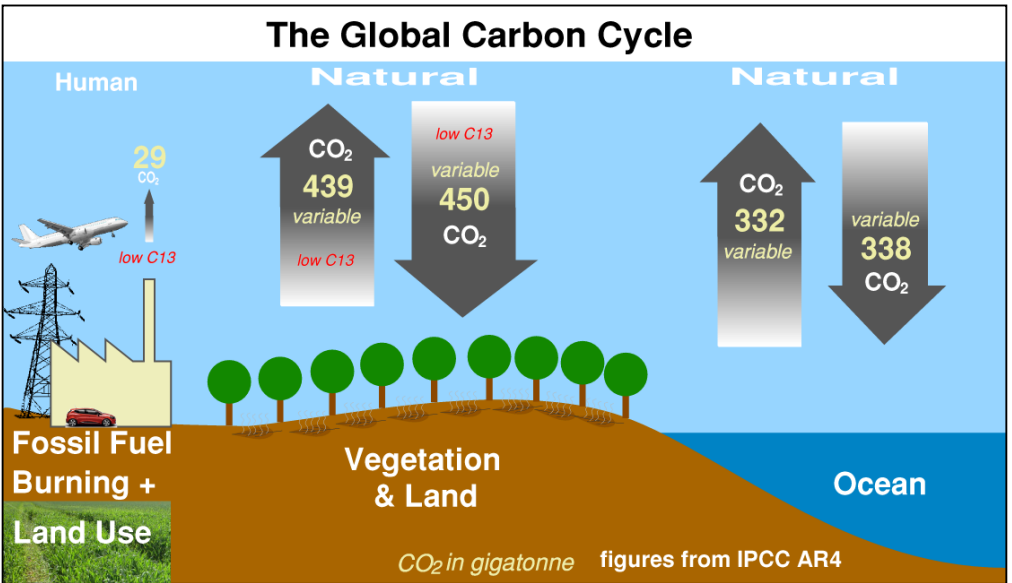
* See The Green Machine by Robert James Bidinotto, 1993 IOS publications. Electronic version available from Philip Foster.

The lag is observable at both long (proxy) and short (directly measured) frequencies. Prof. Murry Salby, using accurate data starting in 1958, shows CO₂ and methane rises lag behind temperature by about ten months.

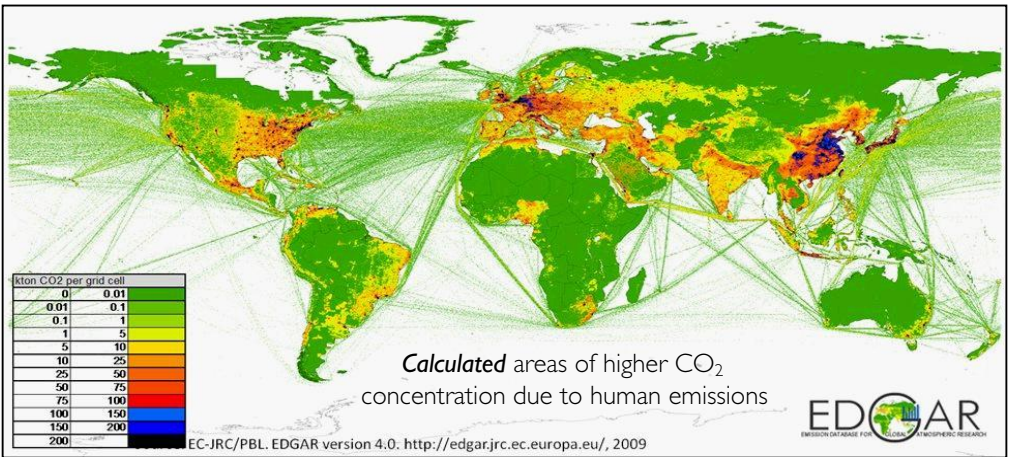
He shows that net increase in CO₂ is mostly dependent on natural surface conditions: chiefly temperature and moisture. It is this natural process of decomposition of organic material that gives rise to most of the net increase in CO₂ and methane (from anaerobic decomposition) we see today.



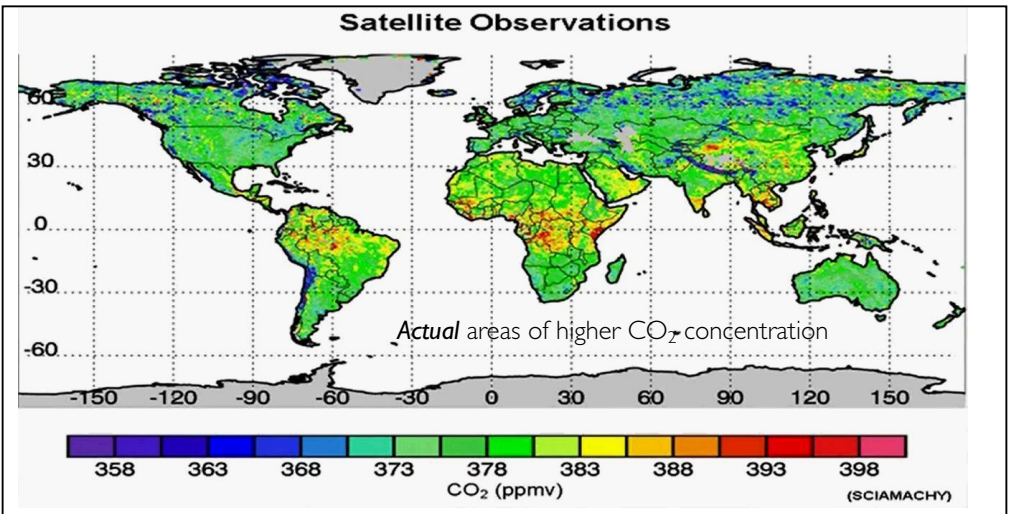
As can be seen in the diagram below the human input is small (~ 4%).



If it were human emissions causing the modern increase, this would show up regionally. Industrial areas would show higher concentrations—as shown in the calculated ‘EDGAR’ map opposite.



However the actual concentrations of CO₂ are observed by the SCIAMACHY



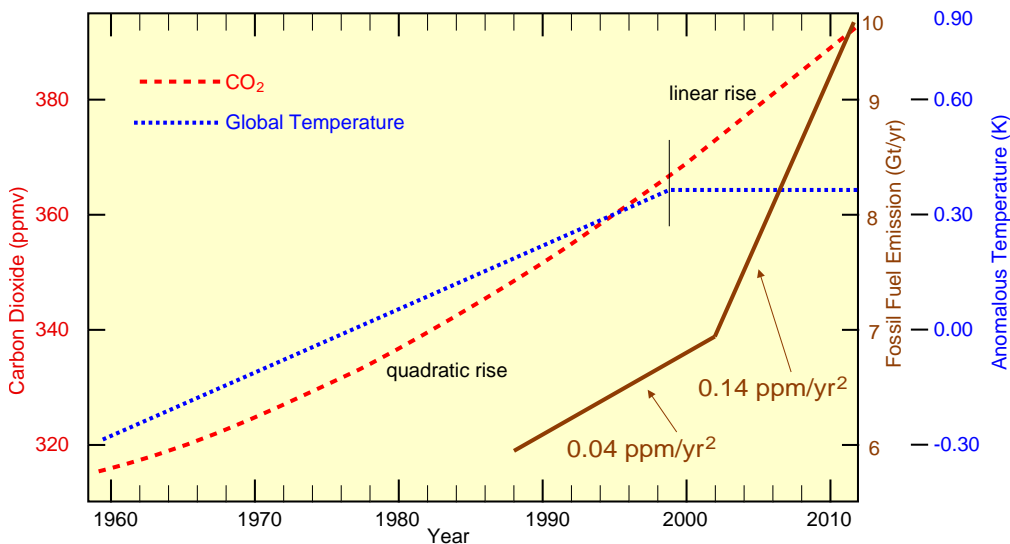
satellite. It is clear that the two maps are very different. The latter shows almost no high concentrations of CO₂ in the industrialised areas. Instead the higher concentrations of CO₂ are in a band at the equator—exactly what would be expected if due to organic decomposition. It even suggests that, rather than humans increasing CO₂ in industrialised areas, the data would better suit a hypothesis that human activity is acting, in some way, as a CO₂ sink. There is no obvious ‘fingerprint’ of human emissions from fossil fuels in its distribution. In passing, methane CH₄ and CO₂ rise and fall together both in the past and in the present. Unless it could be shown that burning fossil fuels produces flatulence, it demonstrates that the rises and falls are natural; decaying vegetation produces CO₂ and CH₄.

This is further confirmed by the failure of the last strand in the warmists’ hypothesis: the fall in the proportion of ¹³C in atmospheric CO₂. Salby shows that this fall

relates mostly to natural emissions which are primarily organic and therefore low in ^{13}C , as fossil fuels are—with a correlation of 0.88.

Conclusion:

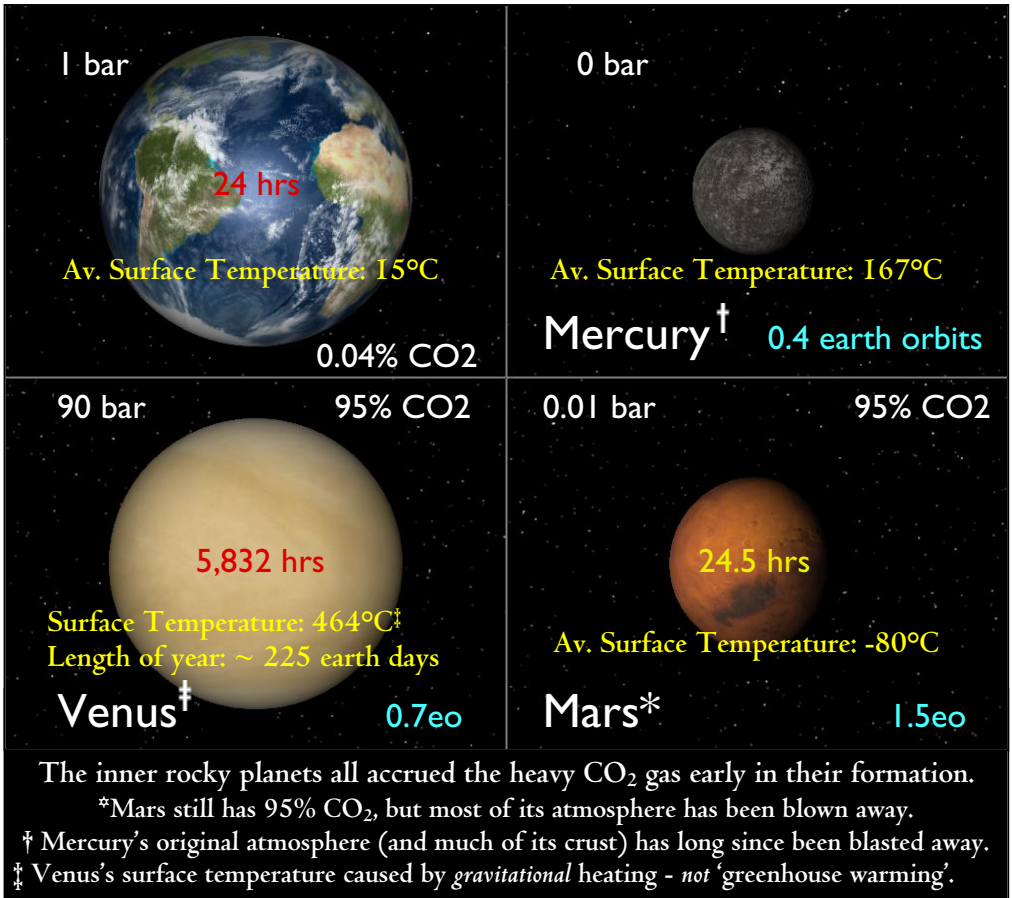
1. The ice core data **do not support the hypothesis that CO_2 drives temperature; but the reverse.** The data also seriously underestimate the true levels of CO_2 in the past.
2. Modern rising level of CO_2 has a high correlation (0.93) with natural fluctuations caused by surface conditions (temperature and moisture).
3. The fall in the proportion of ^{13}C in atmospheric CO_2 is mostly attributable to natural surface conditions (correlation 0.88).



Above is a graph (with the data very 'smoothed' to highlight various points clearly) which shows that when the earth is warming CO_2 levels increase quadratically (ie an upward curve); when earth's temperature is static - which it has been for the last 20 years - CO_2 increases slow down to a linear rise. However, the brown line represents the increasing use of fossil fuels. In 2001/2 this rate of increase tripled yet it was during this period that both temperature **flatlined** and CO_2 level increase **slowed down**. This is the EXACT OPPOSITE of what is predicted to happen according to climate alarmists.

Therefore the Anthropogenic Climate Change hypothesis is falsified.

The Earth's Past

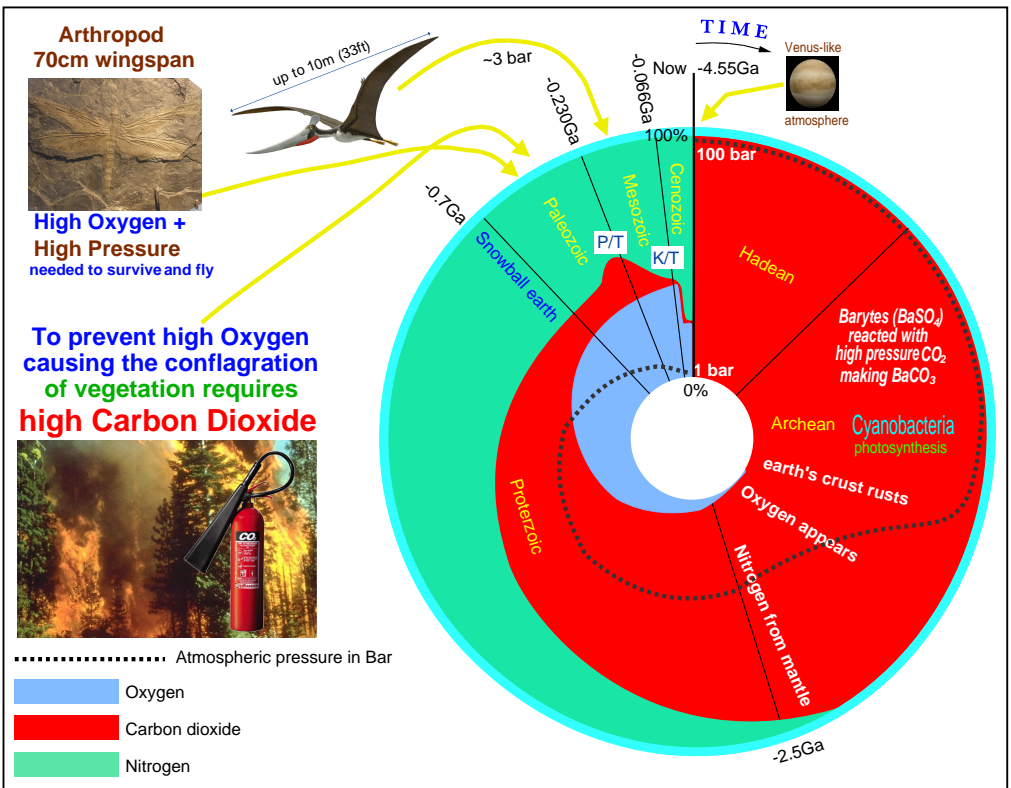


Dr James Hansen of NASA, a climate alarmist, has claimed that if we continue to burn fossil fuel we will end up like Venus. I gather he has retired. Maybe just as well.

Four billion years ago ...

Four billion years ago this planet did indeed have an atmosphere very like Venus: CO₂ >95% at 100 atmospheres pressure and no oxygen. But since then the trend for CO₂ has been rapidly downward as CO₂ was sequestered into the biosphere where the carbon was extracted by the biosphere and laid down to make fossil fuels: gas, oil and coal and limestone was formed.

2.4 billion years ago the atmosphere was still very high in CO₂. We know that because very ancient barytes (barium sulphate) deposits contain additional CO₂ which must have been forced in by pressures in excess of 60 atmospheres.



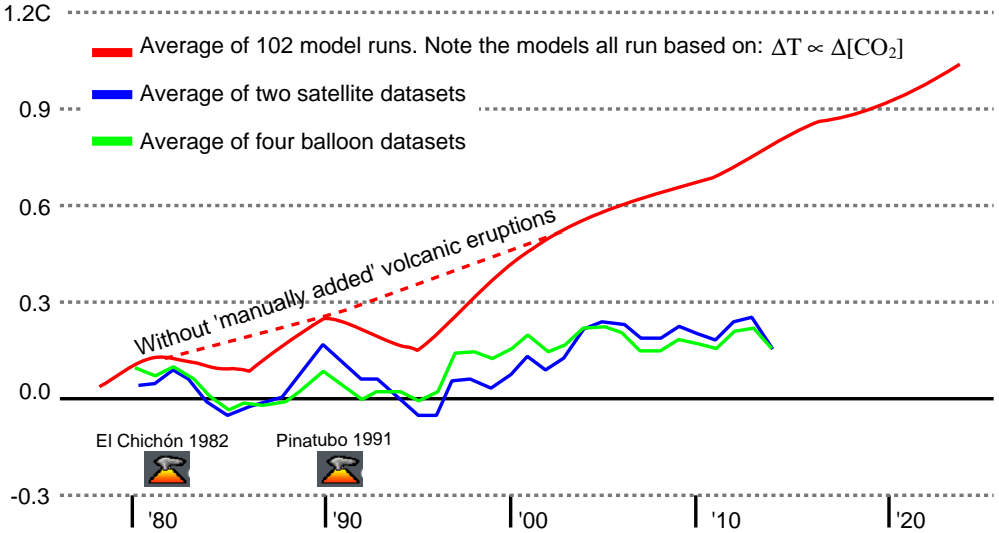
Around one billion years ago atmospheric CO_2 was around 35% yet the planet was plunged into 'snowball earth' where ice extended to the equator. This incidentally makes the claim that CO_2 causes warming look rather absurd. After the Cambrian Explosion, life drew more and more CO_2 down into the biosphere, sequestering much of it in the coal measures. The removal of CO_2 caused the atmospheric pressure to drop, so that, by the time of the dinosaurs, atmospheric pressure was nearer three modern atmospheres: this enabled the pterosaurs to fly—something they probably could not do today. The drop in oxygen after the K/T event probably led to the progressive extinction of the large warm-blooded dinosaurs.

Today CO_2 levels stand at 0.04%. This is nearly the lowest it has ever been and is potentially dangerously low—plants are beginning to 'struggle for breath'. If plants die off—we die. The more CO_2 that goes into the atmosphere the better for the planet's ecology, including ourselves. The current tiny rise over the last couple of centuries is trivial (humans being responsible for perhaps 4% of it) and probably caused by deep ocean warming during the Medieval Warm Period (it takes oceans several hundred years to respond by outgassing CO_2) plus modern day natural organic decay (as demonstrated by Prof. Murry Salby).

Computers versus reality

Warming Predictions vs. the Real World

Global mid-tropospheric temperature 5-year averages, in degree Celsius



It is very important to understand that computer models of climate or related complex natural phenomena do not produce *evidence* of anything. A computer climate model is not a 'crystal ball' [actually a crystal ball would be just as useful (or useless), but cost a great deal less. The Met Office spent £100million on their recent computer.] able to predict the future. The old adage, 'Garbage In = Garbage Out' fully applies.

Climate, like weather, is a chaotic system, driven by so many interacting factors which at present, neither maths nor physics can solve. Two of the seven Clay Millennium problems (famous unsolved problems of mathematics) are at the foundations of climate science. You would win a million dollars if you were to actually solve the primary governing equations that we need to forecast climate. The only way to get results that even get near reality from models is to *seriously fudge* the maths and the physics. Even then the results are lamentably bad. The graph above shows modelling versus real data.

The case rests!

POLICY

"Whatever the UK is doing about climate change will have no effect on your climate. It will have a profound effect on your economy."

"It's clear that there is no policy that is better than doing nothing."

Prof. Richard Lindzen in verbal evidence given to the Committee on Energy and Climate Change, Westminster 28.01.14

Climate: What we know and What we don't

Year	Human CO ₂ (Gt)	Natural CO ₂ (Gt)	Net CO ₂ (Gt)
1850	0.5	50	49.5
2014	36	50	14
2100 (IPCC AR5)	100	50	50

Summary of a lecture
given by Professor Murry Salby
by Mike Haseler Bsc. MBA

(with some additional material on Salby's subsequent lectures)

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and from Piers Corbyn on 07958 713320 corbynpiers@gmail.com www.weatheraction.com