

# Part 1

*[Internet sources for the illustrations are cited at the end of this document]*

LDS comments and footnotes are my additional information



## 16- Re-examining Papal Energy and Climate Ethics

- Pope Francis released an encyclical *Laudato Si, mi Signori* in 2015 to outline the Vatican's stance on looking after the planet.
- It is a mouthpiece for Climate Change alarmism.
- The encyclical:
  - accepts as an unassailable fact that Climate Change is man-made, unprecedented and likely to be catastrophic;
  - stresses that it requires a complete and fundamental transformation of the world's energy and economic systems.
- The Pope failed to include dialogue with anti-alarmists who have a different perspective during his preparations for the report.
- "The Vatican seems to be more interested in lecturing the world instead of engaging them in conversation."
- The encyclical's propositions would perpetuate harm to the livelihoods, living standards and well-being of billions of the poor worldwide.



Illustration 1: The Pope's encyclical



Illustration 2: The poor are the Vatican's important concern?

## 17- Free Speech and Climate Change

- Michael Mann of Pennsylvania State University invented the global temperature ‘hockey stick’ that eliminated the medieval warming period – a warm period like it is now.
- The contest of ideas through freedom of speech helps the truth to be revealed.
- Dissent has the value of testing the prevailing arguments to see if they fall or are sustained.
- Shutting down debate short-circuits the process of illumination of ideas.
- Climate Change has moved from the dispassionate search for truth through empirical enquiry into the realm of political activism.
- The move from science to politics has steadily shut down dissenting opinion.
- Opponents of Climate Change are silenced by any means possible.
- American states use criminal law against companies who dissent by criminalizing scepticism.
- Opponents of climate scepticism can march in protest against government inaction on Climate Change using the liberty of free speech, but they will vehemently attack climate sceptics when they march against the falsity of climate scaremongering.

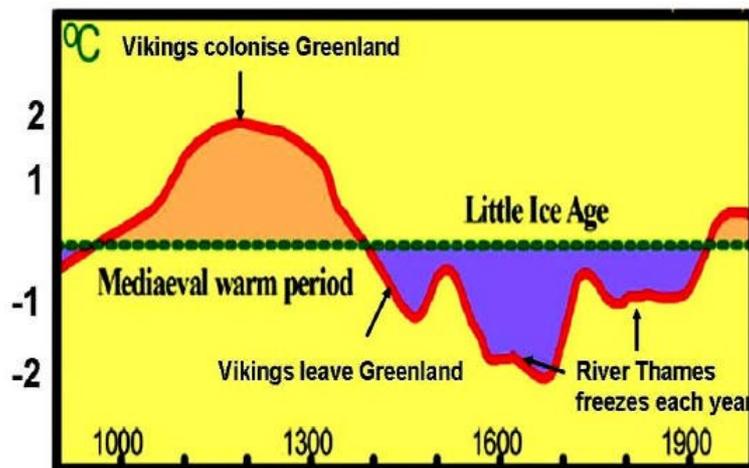


Illustration 3: Global temperature fluctuations since 1000AD

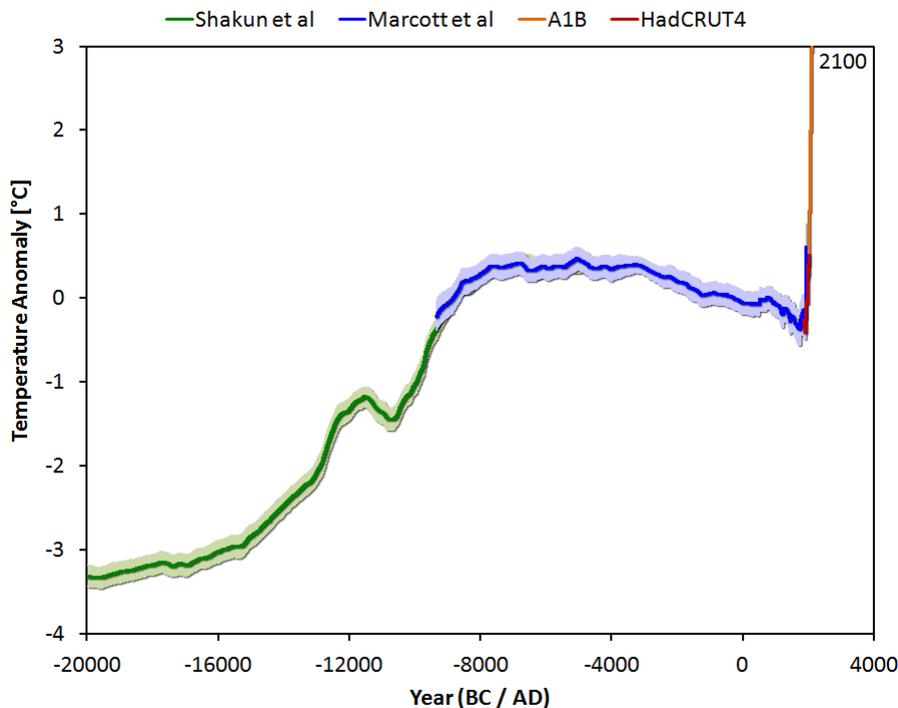
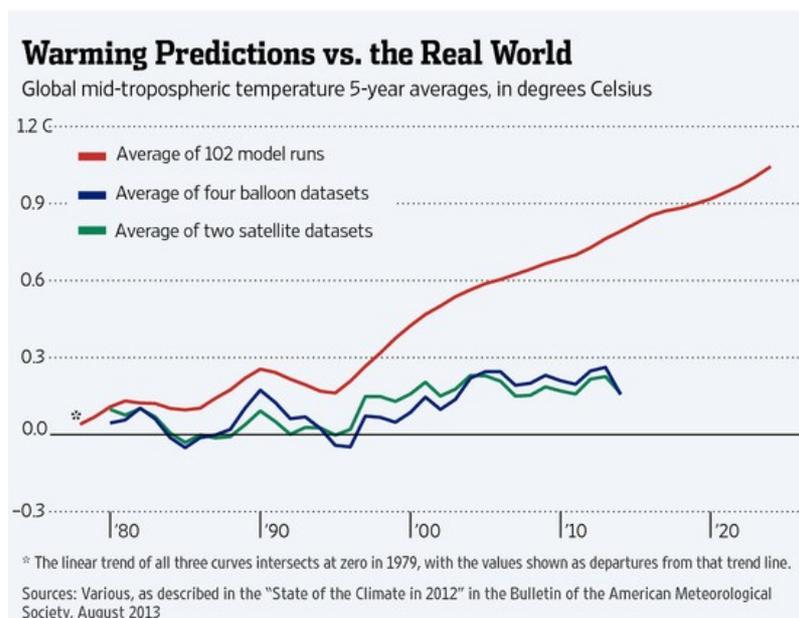


Illustration 4: The temperature reconstruction for 20,000BC-2100AD

## 18- The Lukewarm Paradigm and Funding of Science

- The planet is warming – 0.8°C warmer than the turn of the 20<sup>th</sup> century.
- Anthropogenic global warming is ‘lukewarm’ as humans have very little to do with this increase.
- Anomalies are ignored in defence of existing paradigms, even if the ‘science’ supports the alteration of errors.
  - Example: There is a growing mismatch between global average temperatures generated by models and those collected by satellites and balloons.
- ‘Cherry-picking’ of start and end dates for modelling is used to encourage climate alarmism.
  - Example: The report published in ‘Nature’ science magazine, “A search for human influences on the thermal; structure of the atmosphere”, just used data from 1963-1987 when data as far back as 1957 was available. This made the temperature rise more pronounced.
- 1963 was an atmospheric cooling year due to the eruption of Indonesia’s Mount Agung volcano.
- A ‘pause’ or ‘hiatus’ appears in the rise of surface and troposphere temperatures from 1996-2015/2016.
- Official records have been modified to erase this ‘pause’.
- The ‘pause’ is confirmed by stratosphere temperature records which level out from 1996 rather than falling as it should if the lower levels of the atmosphere were warming.
- Climate models don’t match what has been observed (1980s-2010s).
- There are hundreds of different computer simulations of the temperature change for the future ranging from a 0.5°C rise or the 2.5°C rise. (Which one is correct? You can pick any of them!)<sup>1</sup>
- Sulphates in the air from burning coal cool the atmosphere. This effect has been used to explain the model’s failure to match observed temperatures because ‘the models can’t be wrong’!
- The models include twice the amount of cooling from sulphates as what sulphates actually do.
- Climate scientists are employed to promote anthropogenic global warming which is a political regime.
- This trend produces a flux of publication bias in which the findings that don’t support the funded hypothesis are not reported. Alternatively the models are continually modified (called ‘model tuning’) until the anticipated acceptable range is what they produce.
- The political nature of climate science ensures that all manuscripts submitted for peer review before publication will not be approved if they demonstrate that climate models are failing.
- Reviews that support climate modelling are likely to be lightly reviewed (i.e. a cursory review) and fast-tracked for publication.



*Illustration 5: The comparison of climate models with temperature observations (raw data)*

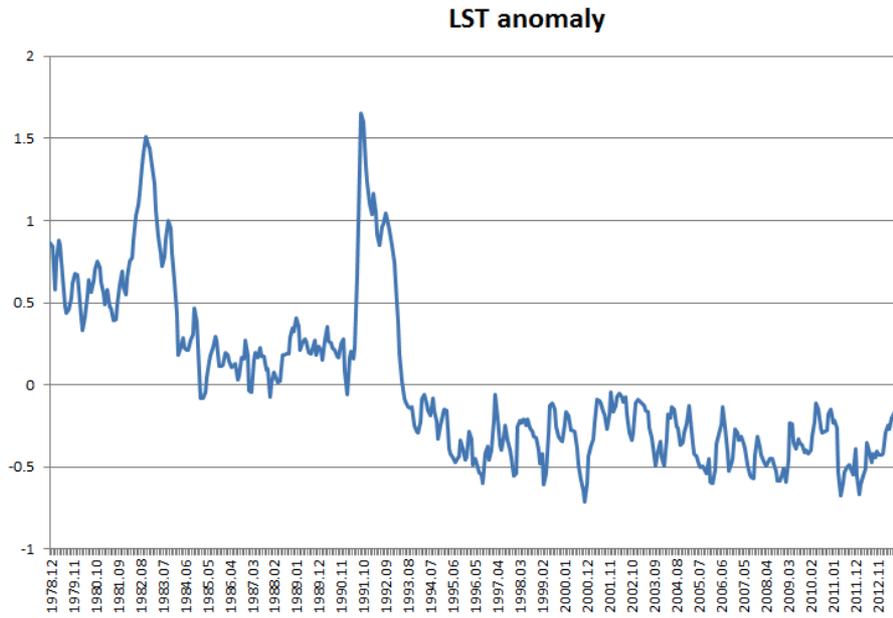


Illustration 6: Lower stratosphere temperatures declining (1978-2012)

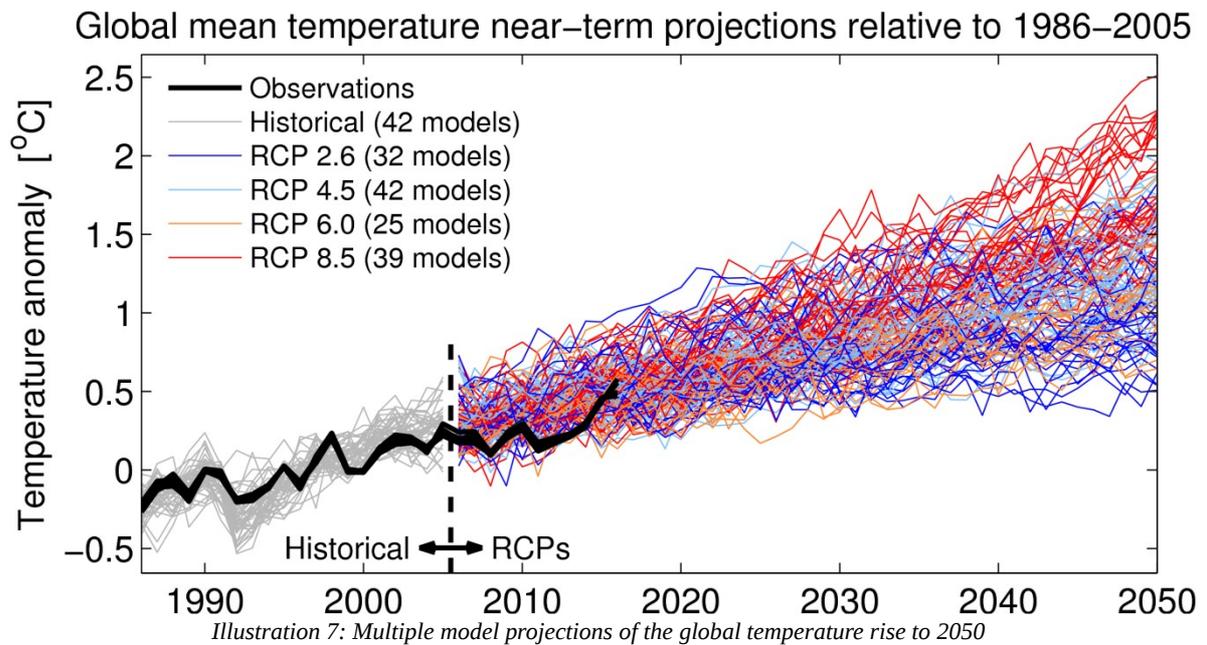


Illustration 7: Multiple model projections of the global temperature rise to 2050

## 19- The Contribution of Carbon Dioxide to Global Warming

- The Inter-governmental Panel on Climate Change (IPCC) published their first report on the impact of carbon dioxide on global warming in 1991.
- The IPCC has ignored the scientific research since the 1950s from spectroscopy and have continued to extrapolate on the theoretical calculations of Joseph Fourier (1768-1830) and Arrhenius (1859-1927).
- Global warming comes from what's known as the Greenhouse Effect where gasses in the atmosphere absorb the heat from the sun causing the air to heat up. (The Greenhouse Effect is a natural process necessary for life on Earth. It prevents the Earth's surface air from cooling at Arctic-like conditions.)<sup>2</sup>
- Many components of the atmosphere increase or decrease the effect of the sun's heat on Earth. The IPCC calls these Radiative Forcing Components.
- Water vapour is the most 'destructive' greenhouse gas when it comes to global warming because it absorbs more heat from the sun than carbon dioxide – about 3x as much as carbon dioxide.
- Methane and nitrogen oxide are negligible in effect compared to carbon dioxide and water vapour.

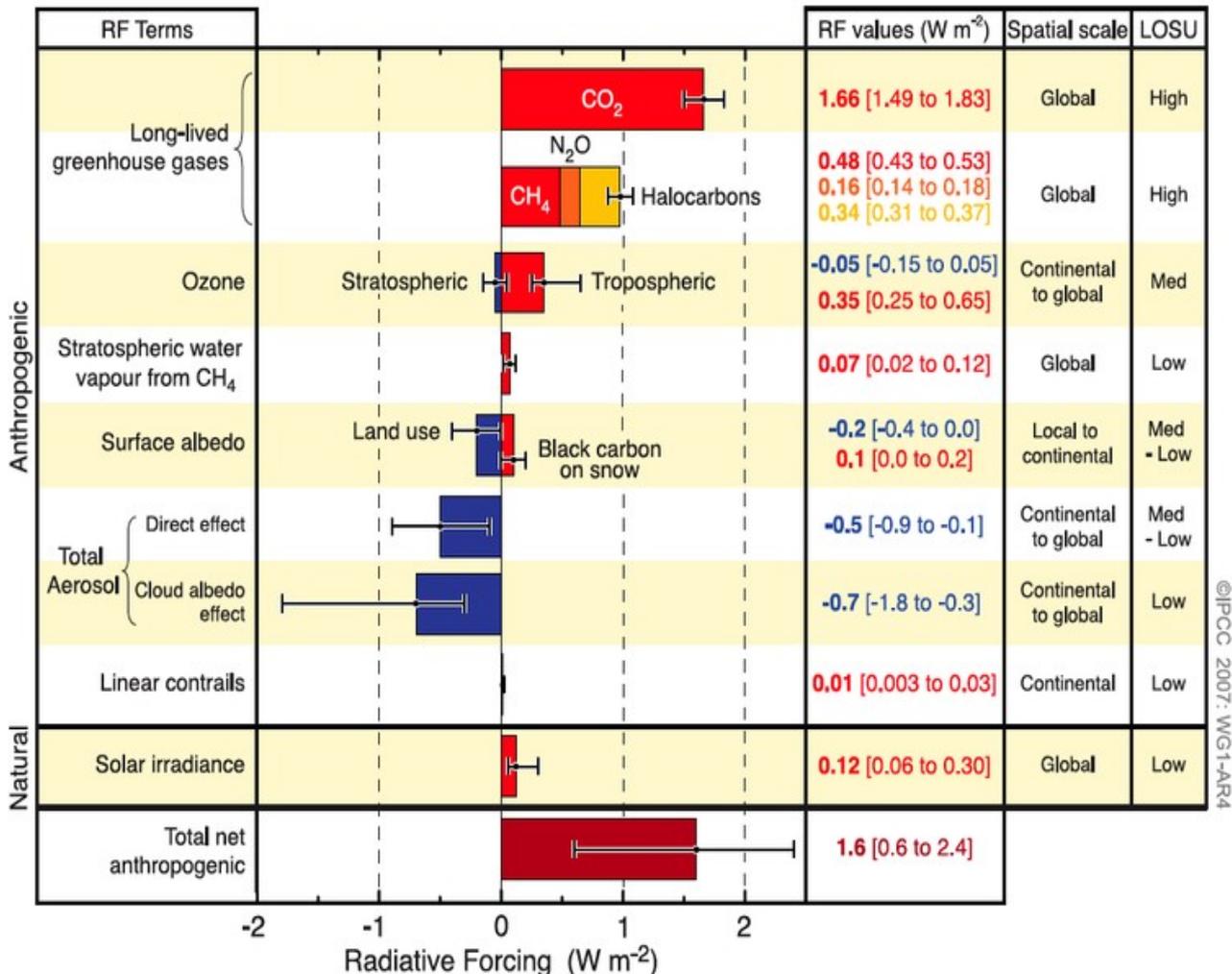


Illustration 8: Components of the Radiative Forcing according to the IPCC

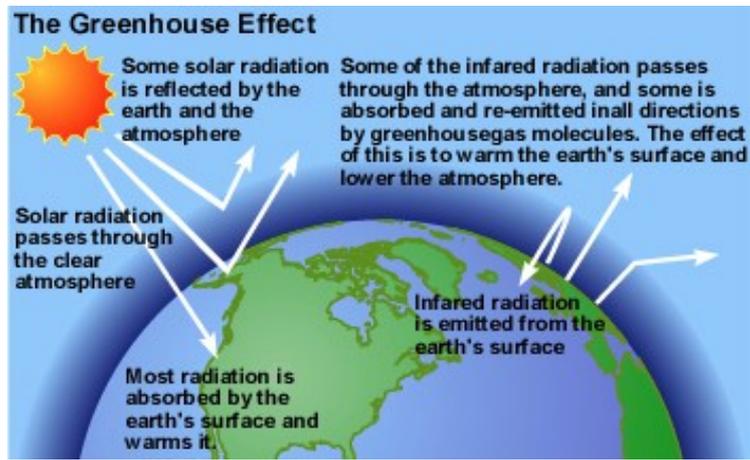


Illustration 9: The Greenhouse Effect

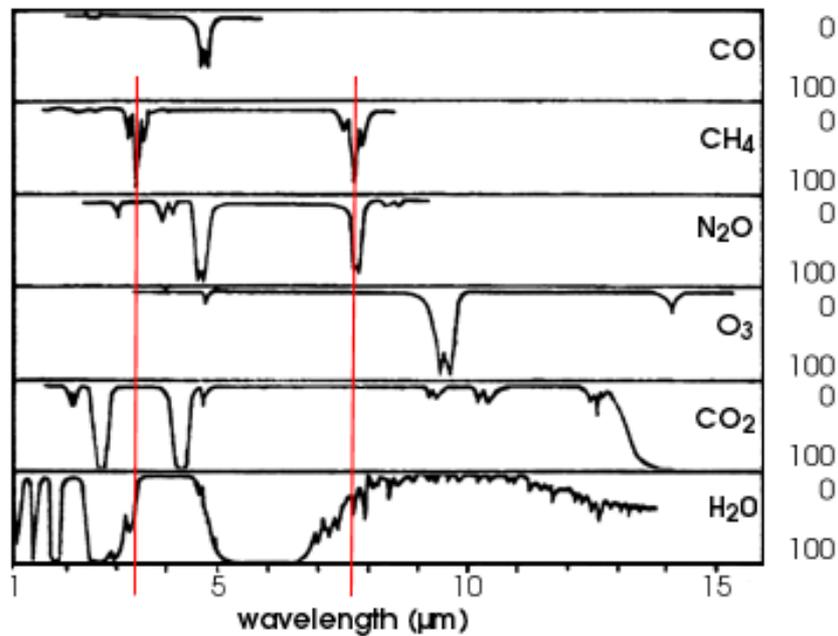


Illustration 10: The percentage of the sun's radiation absorbed by various greenhouse gases

Green House Gases (GHG) Type	Chemical Symbol	Absorption (%)	Absorption Relative to Water Vapor = 1
<b>Water Vapor</b>	H <sub>2</sub> O	68.2	1
<b>Carbon Dioxide (285 ppmv)*</b>	CO <sub>2</sub>	17.0	0.249
<b>Carbon Dioxide (570 ppmv)*</b>	CO <sub>2</sub>	18.5	0.271
<b>Methane</b>	CH <sub>4</sub>	1.2	0.018
<b>Nitrogen Oxide</b>	N <sub>2</sub> O	0.5	0.007
<b>Total [ Water, CO<sub>2</sub> (285ppmv), CH<sub>4</sub> &amp; N<sub>2</sub>O ]</b>		86.9	
<b>Combination with 285 ppmv CO<sub>2</sub></b>		72.9	1.069
<b>Combination with 570 ppmv CO<sub>2</sub></b>		73.4	1.076

Illustration 11: The absorption of heat by greenhouse gases in the first 100m of the atmosphere (compared to water vapour of 1.0)

## 20- Carbon Dioxide and the Evolution of the Earth's Atmosphere

- According to geologists, from their study of the geological record, the climate has been changing for millions of years. (This time scale is an evolutionary interpretation of rock dates.)<sup>3</sup>
- Deep sea floor core samples show that the temperatures of the sea have increased over millions of years. This was calculated by measuring the oxygen isotopes in plankton (*benthic foraminifera*). [The graph in this section shows a fall in the ratio up to the present day. As the ratio falls, the temperature of the water was increasing.]
- Geology shows that there is no relationship between carbon dioxide in the atmosphere and the climate.
- The minute amount of carbon dioxide in the atmosphere today should not drive climate changes when it didn't when there was an abundance of it in the past. (Around 4 million years ago according to evolution).
- Larger processes than the concentration of carbon dioxide drive Climate Change.
- The past revealed by geology shows that predicted future catastrophic events by climate activists are wrong.
- This is why climate alarmists won't debate Climate Change with geologists.
- Human emissions of carbon dioxide from electricity production, manufacturing, transportation and heating is only 3% of yearly carbon dioxide production.
- The other 97% of carbon dioxide production needs to be shown that it DOESN'T drive global warming.
- Carbon dioxide produced by humans enters the Carbon Cycle and is recycled through living things.
- The oceans remove vast amounts of carbon dioxide from the atmosphere where it is used by plankton and sea weed.
- Anthropogenic global warming has not been proven as yet.
- If human production of carbon dioxide drives Climate Change, there should have been no change in the climate before the Industrial Revolution. But, pre-Industrial Revolution climate changes were faster and greater than any change measured today.
- Scientific hypotheses are valid only if they reflect the facts in the data. Anthropogenic Climate Change doesn't, therefore it is an invalid theory.

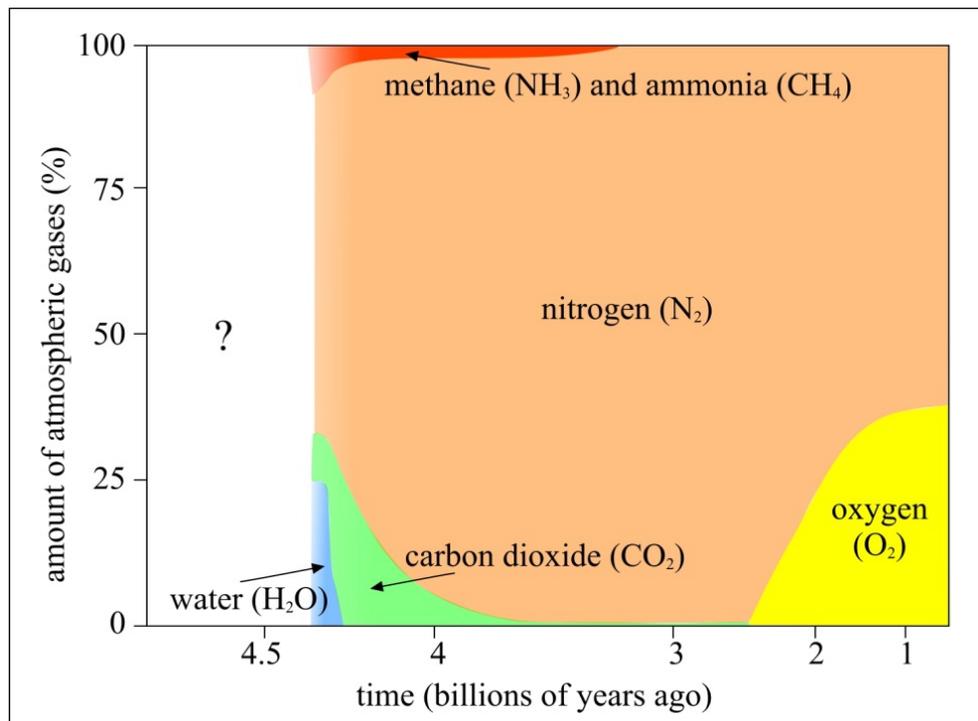


Illustration 12: The theoretical changes in the gas composition of Earth's atmosphere since 4.5 billion years ago.

## 21- The Geological Context of Natural Climate Change

- Natural climate varies greatly over the millennia.<sup>4</sup>
- There are 20,000-year, 41,000-year, and 100,000-year oscillations in global temperatures, termed Milankovitch frequencies. (This time scale comes from an evolutionary interpretation of rock dates.)<sup>5</sup>
- Recent cycles have been punctuated by episodes of abrupt climate change, both glacial and interglacial.
- Compared to ancient records, temperatures over the past 50 years have not been particularly high or fast-changing.
- The two 20<sup>th</sup> century warming pulses, at a rate of 1.5°C/century, fall well within the natural rates of Holocene warming and cooling that have been calculated from the Greenland ice cores.
- Warmer and cooler temperatures compared to today are far from unusual in the ancient past.
- The sun's heat is the dominant force that creates our climate systems and is behind Climate Change.
- The sun's irradiance has been slightly increasing since the 17<sup>th</sup> century.
- These sun phenomena impact Earth's climate:
  - 11-year sun spot cycles; 11-year cycles of it's magnetic field; it's plasma; it's electromagnetic field; it's gravitational field through the 18.6-year Lunar Nodal Cycle.
- The assertions that the sun plays a minor role in 20<sup>th</sup> century warming is misplaced.
- Humans have had some small effect on local climate – e.g. Urban Heat Island effect in cities; crops cause more of the sunlight to be reflected leading to cooling in agricultural areas.
- Since 1990, no definitive effect of humans on global climate has been calculated – despite the great expenditure.
- The human effect is buried in the variability and 'noise' of the natural climate system.
- We cannot be certain whether the nett human effect is one of global warming or cooling.
- There is no direct evidence that human influences are even dangerous – only on theoretical grounds.
- The Medieval Warm Period (900-1300AD) was warmer than global temperatures up until 1980.

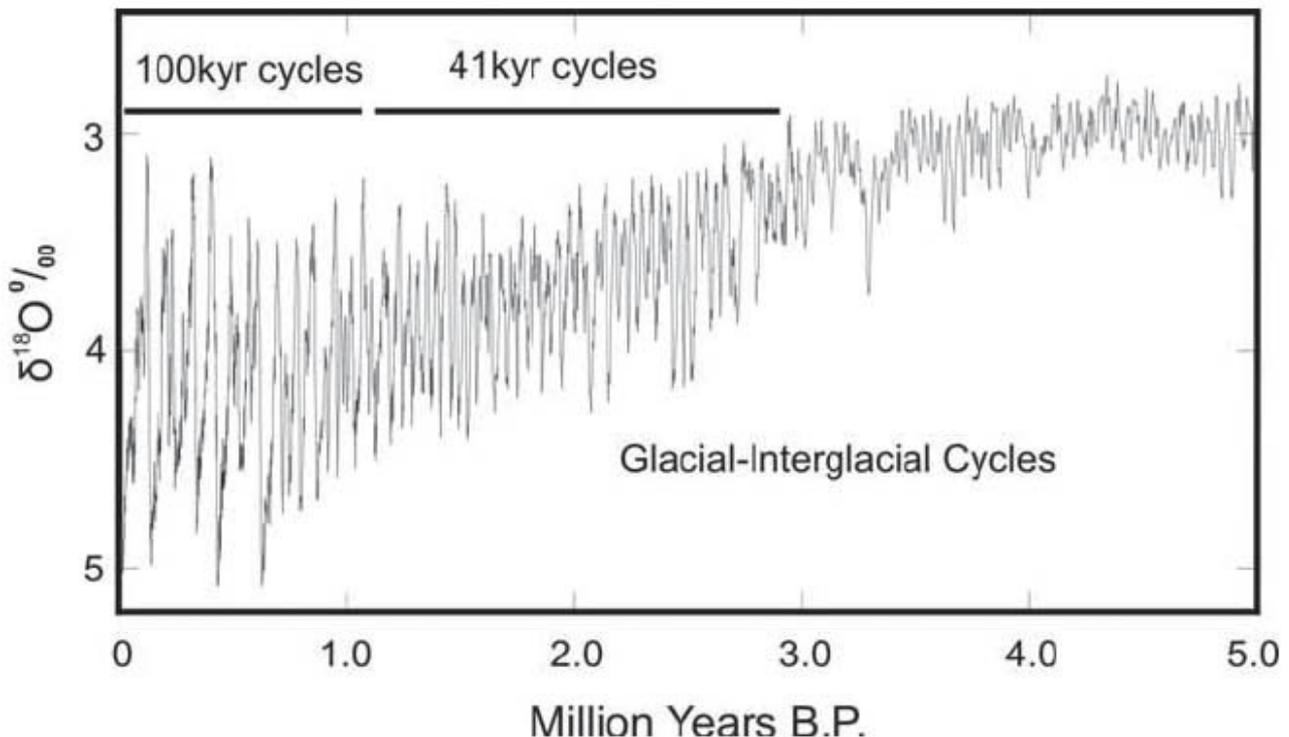


Illustration 13: The change in deep sea temperature. (Calculated from the change in oxygen isotope ratios in plankton preserved in the sea floor) [Millions of years before the present (BP)]

4 – An evolutionary statement [LDS]

5 – LDS

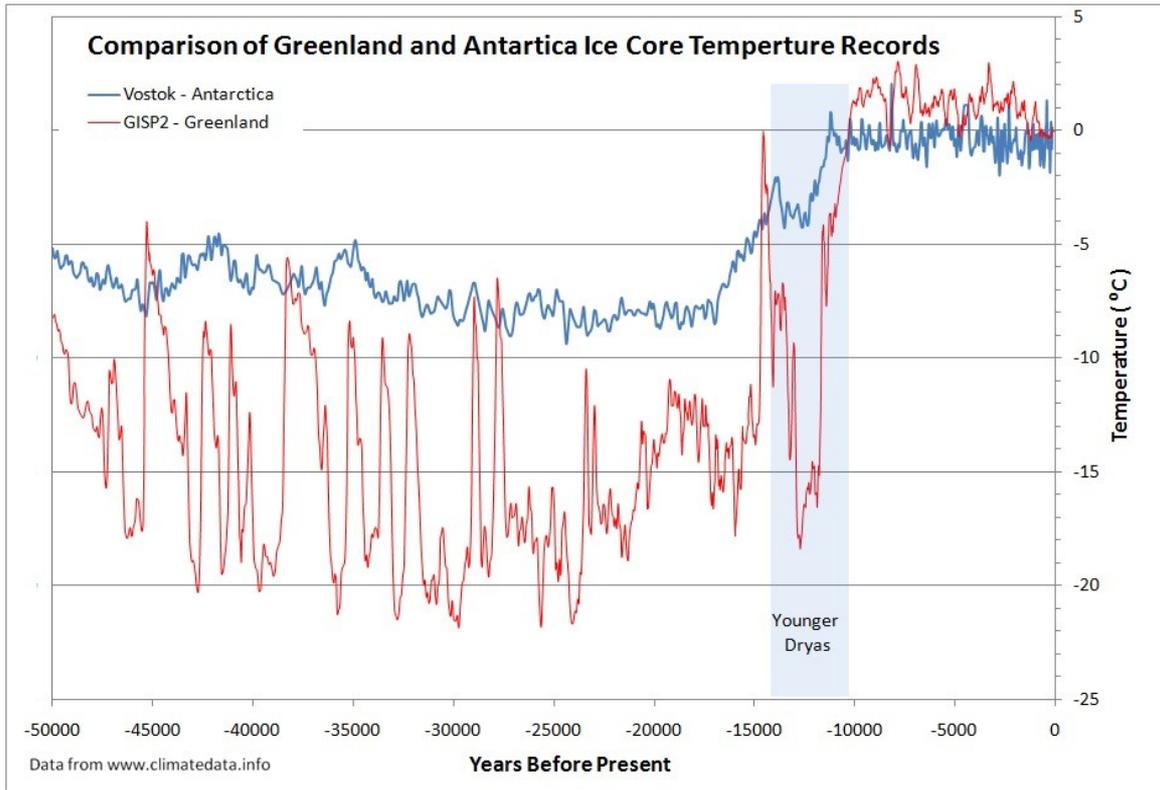


Illustration 14: Surface air temperatures for the past 5,000 years relative to today's temperature. (Calculated from ice cores)

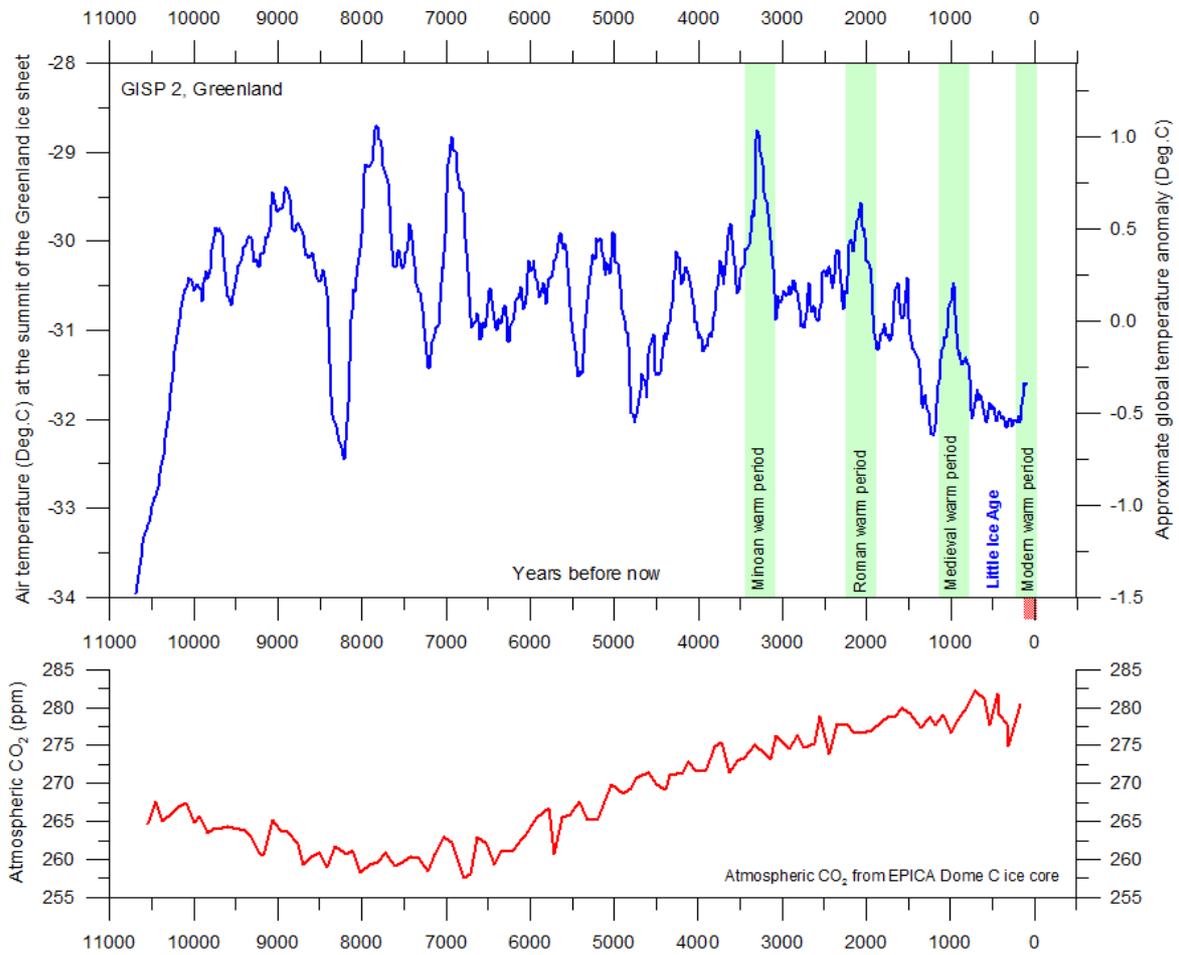


Illustration 15: The temperatures at the summit of the Greenland ice cop over the past 11,000 years AND the carbon dioxide in the air over the same period

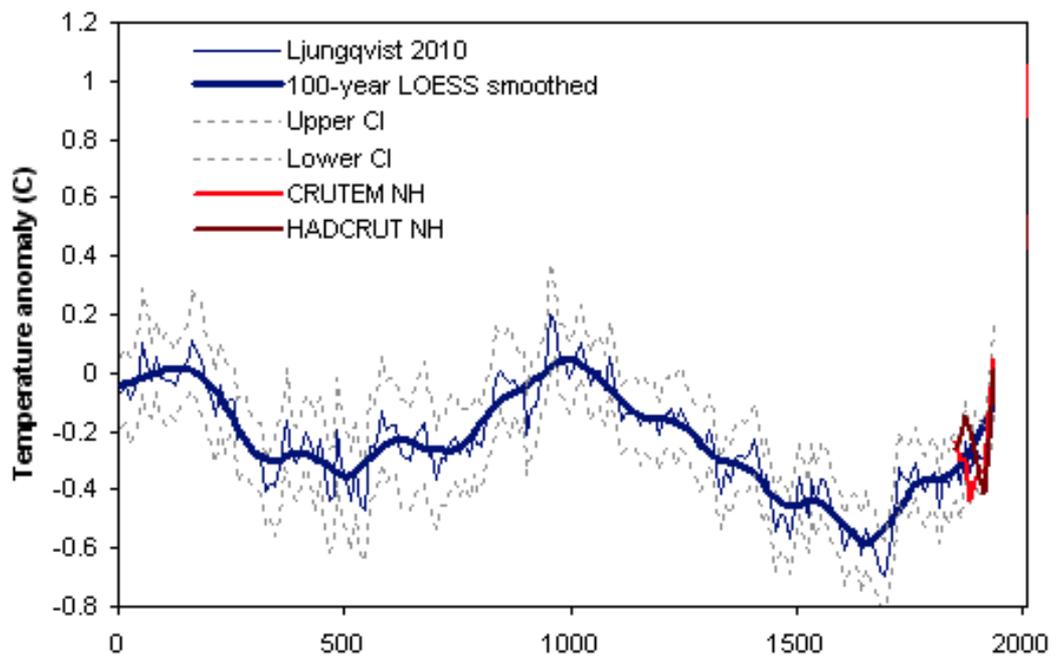


Illustration 16: Reconstructed temperatures for the past 2,000 years (up to 1980)

## 22- Mass Death Dies Hard

- This is an essay by journalist Clive James.
- Read an extract from the essay here. (It is a newspaper article and it may ask you to subscribe – skip to the next link below):
  - [www.theaustralian.com.au/news/inquirer/western-climate-change-alarmists-wont-admit-they-are-wrong/news-story/892c0088ec01f9186e068f55f2ca6794](http://www.theaustralian.com.au/news/inquirer/western-climate-change-alarmists-wont-admit-they-are-wrong/news-story/892c0088ec01f9186e068f55f2ca6794)
- More info here:
  - [joannenova.com.au/2017/06/end-game-of-climate-wars-clive-james-discusses-how-it-plays-out-slowly](http://joannenova.com.au/2017/06/end-game-of-climate-wars-clive-james-discusses-how-it-plays-out-slowly)
- **PODCAST:** Listen to an audio interview with Clive James here:
  - [www.4bc.com.au/podcast/clive-james-scathing-climate-attack](http://www.4bc.com.au/podcast/clive-james-scathing-climate-attack)

# DIAGRAMS

Illustration	Source
1	<a href="http://www.nature.com/nclimate/journal/v1/n3/fig_tab/nclimate1122_F4.html">www.nature.com/nclimate/journal/v1/n3/fig_tab/nclimate1122_F4.html</a>
2	<a href="http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0127648">journals.plos.org/plosone/article?id=10.1371/journal.pone.0127648</a> (free download)
3	<a href="http://www.co2science.org/subject/o/summaries/acidificationphenom.php">www.co2science.org/subject/o/summaries/acidificationphenom.php</a>
4	<a href="http://notrickszone.com/2017/06/29/evidence-review-suggests-humans-may-not-be-the-primary-drivers-of-co2-concentration-changes/#sthash.1VByw7RP.dpbs">notrickszone.com/2017/06/29/evidence-review-suggests-humans-may-not-be-the-primary-drivers-of-co2-concentration-changes/#sthash.1VByw7RP.dpbs</a>
5	<a href="http://www.cato.org/blog/current-wisdom-even-more-low-climate-sensitivity-estimates">www.cato.org/blog/current-wisdom-even-more-low-climate-sensitivity-estimates</a>
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9	<a href="http://en.wikipedia.org/wiki/Barycenter">en.wikipedia.org/wiki/Barycenter</a>
10	<a href="http://landscheidt.wordpress.com">landscheidt.wordpress.com</a>
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13	<a href="http://homolog.us/blogs/blog/2012/11/01/scafettas-solar-lunar-cycle-forecast-vs-global-temperature">homolog.us/blogs/blog/2012/11/01/scafettas-solar-lunar-cycle-forecast-vs-global-temperature</a>
14	<a href="http://en.wikipedia.org/wiki/Lunar_standstill">en.wikipedia.org/wiki/Lunar_standstill</a>
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20	<a href="http://www.giss.nasa.gov/research/briefs/hansen_07/fig1x.gif">www.giss.nasa.gov/research/briefs/hansen_07/fig1x.gif</a>
21	<a href="http://judithcurry.com/2015/03/22/taking-melbournes-temperature">judithcurry.com/2015/03/22/taking-melbournes-temperature</a>
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41	<a href="https://docs.house.gov/meetings/SY/SY00/20151201/104257/HHRG-114-SY00-Wstate-LomborgB-20151201.pdf">docs.house.gov/meetings/SY/SY00/20151201/104257/HHRG-114-SY00-Wstate-LomborgB-20151201.pdf</a>
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43	<a href="http://time.com/tag/pope-francis">time.com/tag/pope-francis</a>
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