

Message to USERS of this tutorial

- **This tutorial was designed to be self-teaching. No knowledge of physics is required for understanding.** The student who is unfamiliar with physical concepts should allow at least an hour of time in which total concentration can be afforded.
- If not viewing the slide show version, use the “Slide Show mode” of PowerPoint. If using a *Windows* computer, simply use mouse clicks or hit the Return key for each successive message or graphic. For an *Apple/Macintosh* computer, use mouse clicks or the down arrow key (at least for “OfficeMac Powerpoint”).
- **The first section** begins on page 17 following the introductory charts. This is the longest section and the one which **will likely require the most attention by the reader** who may not be familiar with basic physics.
- **Anyone desiring to “teach” the message** of these charts, please note the tutorial’s “Sequence of Messages” on the 11th chart – which **should serve as your guide**.
- **Break Point:** Probably best delivered with a break following the topic “The Man-made Hypothesis” (See the “topics” list on chart # 16)
- The author is especially indebted to **Dr. Ian Plimer**, author of the 2009 landmark book on this subject “*Heaven and Earth – Global Warming – The Missing Science*” for permissions to use much of the material within and for supplying some of the original graphics on climate “modeling” and contrasting experimental results.
- The **motivation for creating this tutorial** is one of education in what the author believes to fairly and accurately represent the truth regarding the “possible” effects of human activity on the Earth’s climate - and related public policy issues **and politics**.
- The author reserves the right to restrict the use of this tutorial. *Please contact the author for any contemplated use of this tutorial for purposes other than for education.*

The Good (?)



**Renewable
Energy**



**Green
Jobs**



**Battery-powered
Cars**



**Carbon
Trading**

The Bad



Shuttered Coal Mines



Higher Costs: Fuel, Plant Changeover, Upgrades for Elec. Veh. Infrastructure



Delayed Pipeline Construction

Consumer Resentment



Airline Flight Restrictions



The Really Bad

CCS = Carbon Capture & Storage

The proposed scheme for reducing CO₂ emissions from fossil fuel-fired electricity generation plants (coal, gas, liquid)

BUT, do the math for just U.S. coal-fired plants:

Total atmospheric CO₂ = 3 Trillion tons

LA CCS plant capability = 4.5 Mega-ton of CO₂/year

plant cost = \$480M (\$44M assumed for injection plant)

492 U.S. coal-fired power plants total

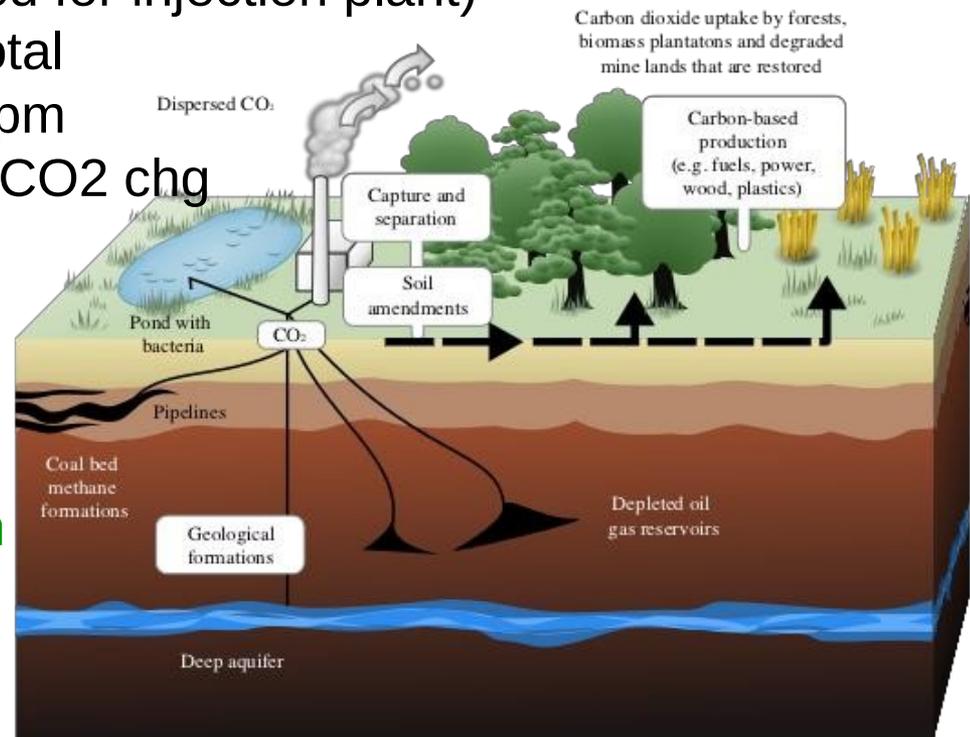
Current atmospheric CO₂ = 385 ppm

0.00018 deg C temp chg per ppm CO₂ chg

(due to non-linearity of Temp/CO₂ at current atmospheric CO₂ level)

Calculates to:

0.0013 deg C reduction! in Earth surface temperature for a cost of **236 \$B** for CCS plants build **332 \$B/year** operating costs



The Ugly



Failed Government Giveaways & Campaign Kickbacks



Subsidized Bio-Fuels:
Soaring Grain Prices
Fouled Engines



Green Activism

The Answer

To Save the Planet

From What?



Man-made CO2!



This I gotta hear

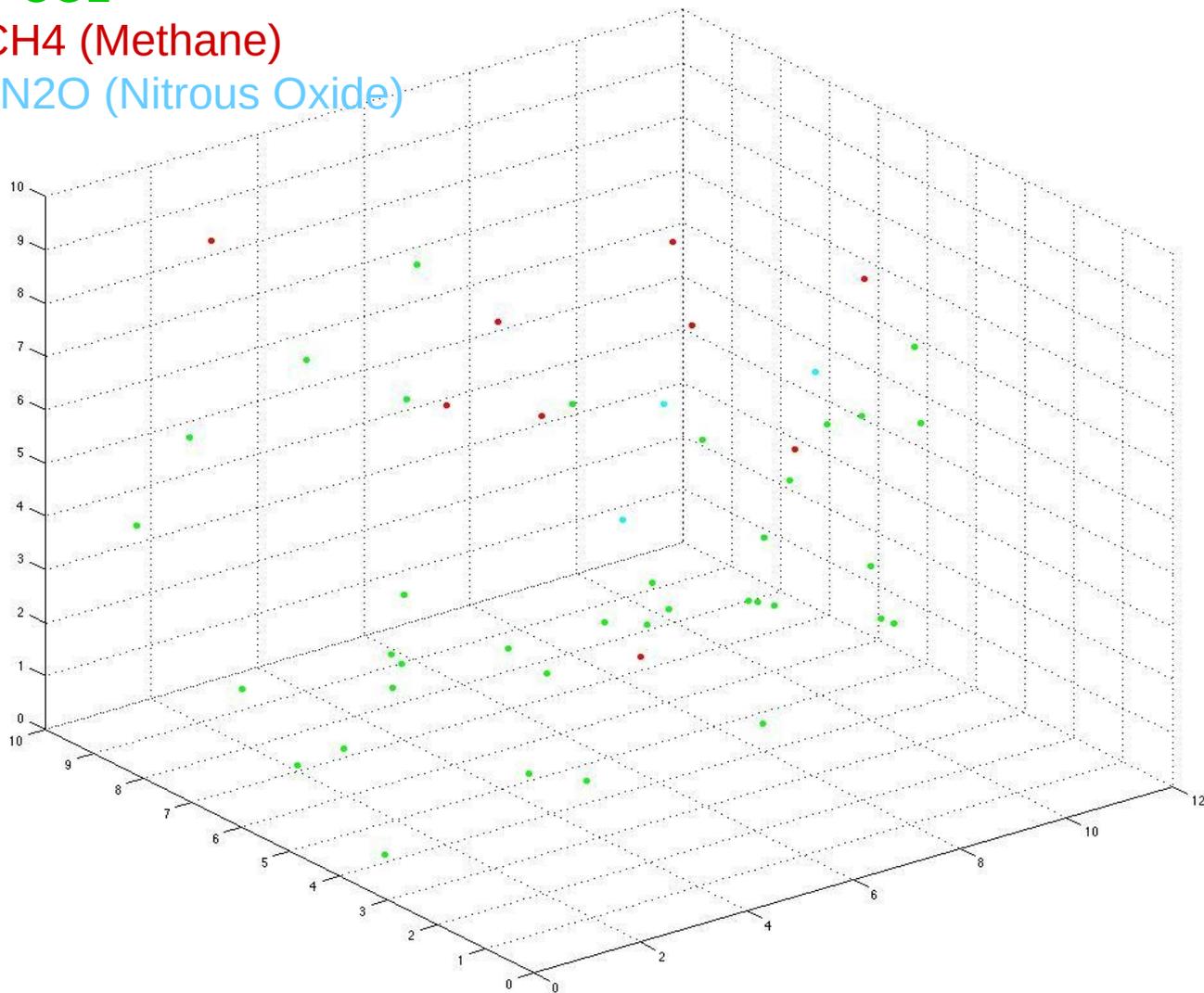
How about those greenhouse gases?

Nature's contribution:

Green = CO₂

Red = CH₄ (Methane)

Cyan = N₂O (Nitrous Oxide)



Adding all GHG's due to human activity

Nature's contribution:

Green = CO₂

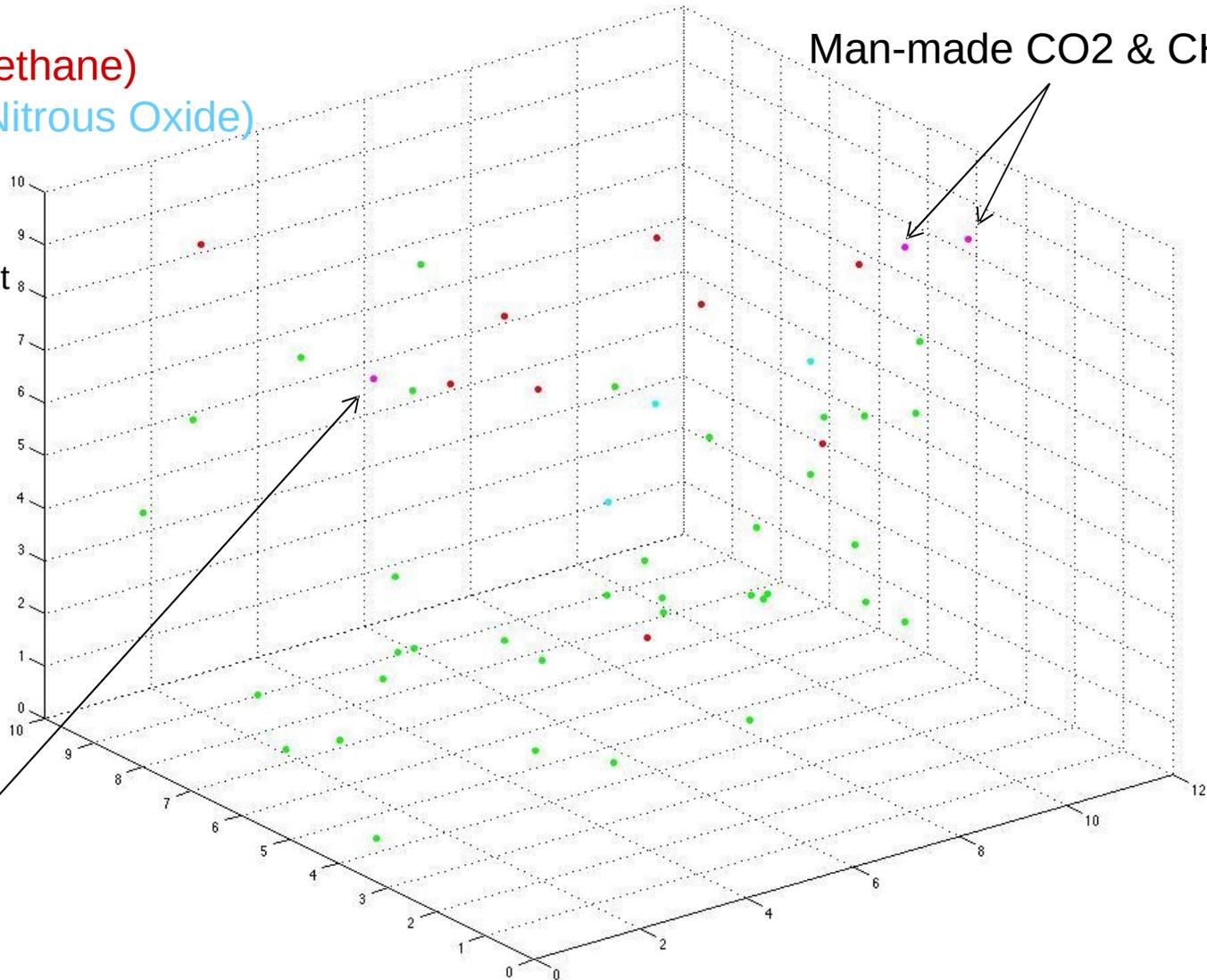
Red = CH₄ (Methane)

Cyan = N₂O (Nitrous Oxide)

The EPA website lists only these gases and does not indicate the man-made contribution

Magenta = all man-made

Man-made CO₂ & CH₄



All other man-made GHG's

Oops! Almost forgot the big one!

Nature's contribution: 99.72%

0.28% Magenta = all man-made

Green = CO₂

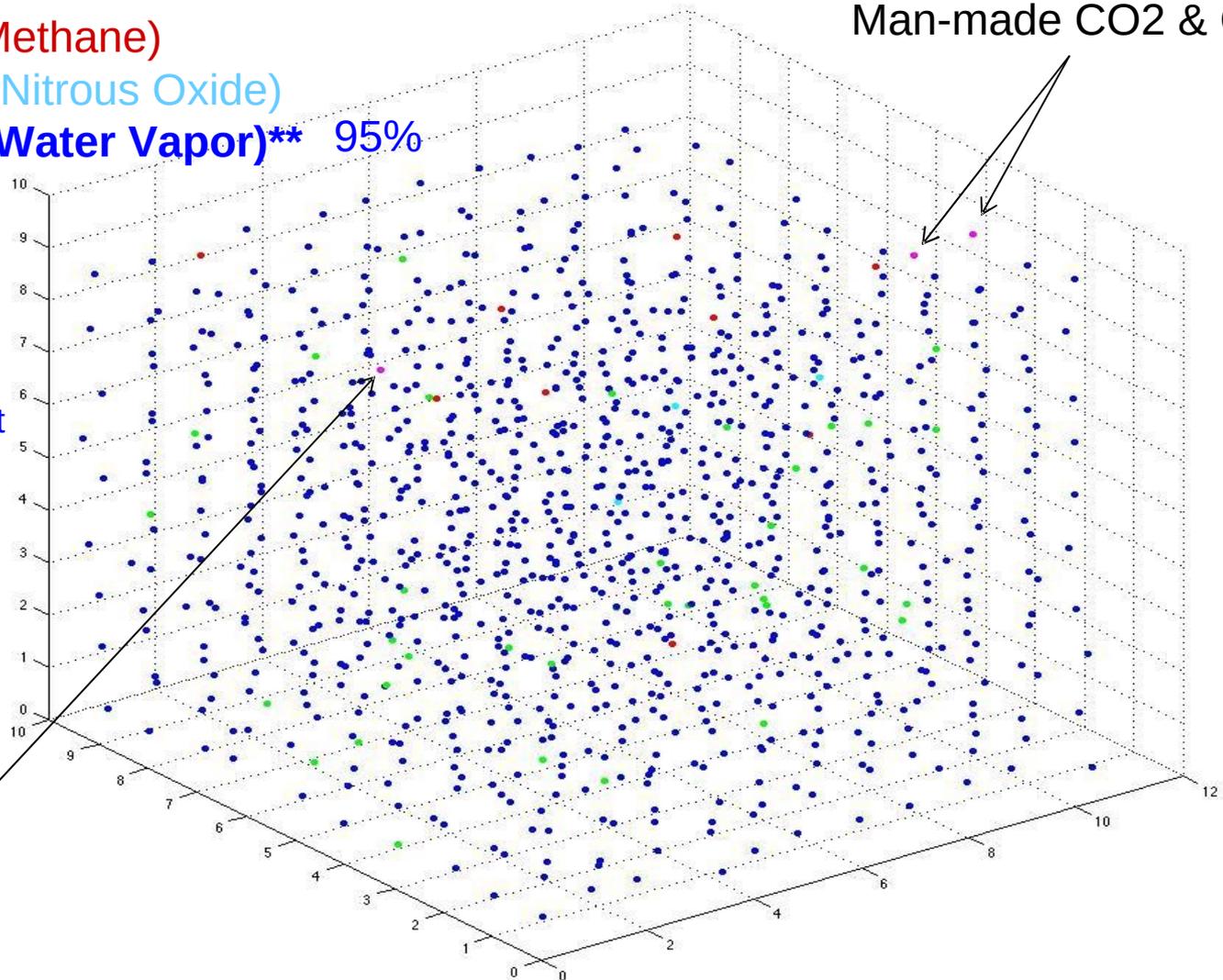
Red = CH₄ (Methane)

Cyan = N₂O (Nitrous Oxide)

Blue = H₂O (Water Vapor)** 95%

** The EPA website does *not* list water vapor – even though it dominates the greenhouse effect

Man-made CO₂ & CH₄



All other man-made GHG's

What do you believe?

- Human activity has a **significant** effect on the Earth's climate? (*Yes / No*)
- Human activity has a **negligible** effect on the Earth's climate? (*Yes / No*)
- This report will show that the Earth's climate is **practically unaffected by human activity**

Not just another arrow in
your “quiver” of knowledge



To defeat this dire threat
to human progress, a
grasp of the **science
fundamentals** is essential



Implicit Sequence of Messages – *for Instructors of this tutorial*

- This tutorial will show the overwhelming evidence for human activity having a negligible effect on the Earth's climate.
- Definitions and Distinctions: What is “green”? Air pollution is bad. CO₂ is not a pollutant.
- The resolution of the question lives ultimately in the domain of science. Thus, It's essential to understand the physics and climate history to a certain level prior to a discussion of public policy and the political aspects of the issue.
- The physics of interest are associated with galactic & solar phenomena and Earth surface (oceanic, land, and atmospheric) energy exchange phenomena.
- We know with reasonable certainty what the climate has been in the past because of footprints left by physical phenomena which effect climate.
- In the past the climate (mean Earth surface temp) has varied as well as CO₂ concentrations and there is no significant correlation between the two.
- The heat exchange mechanisms at the Earth's surface include infra-red (IR) back-scattering (the greenhouse effect), however, man-made CO₂ is an insignificant contributor to an insignificant so-called greenhouse gas operating within an energy exchange mechanism which depends primarily on solar and galactic phenomena as the dominant drivers (“forcings”).
- The “man-made” theory was advanced via politically-inspired manipulation of climate history data. This has been exposed in both the US congress and within the EPA.
- Current U.S. legislation (Waxman-Markey) depends totally on human activity being a significant driver of climate and is, therefore, wasteful of human resources and corrupt at its heart.

Climate Science and the “Man-made” Movement

**Climate Fundamentals, Scientific Findings, IPCC Record,
Congressional and EPA Action and Implications of Legislation
approved by the U.S. House of Representatives**

Original work by Chuck Wilkerson
Edited and managed by Tom Tamarkin

Updated:

20 Feb 2010

21 Feb 2012

25 Feb 2013

02 Aug 2013

06 June 2017

21 Jan 2019

With assistance by
Prof. Dr. Ian Plimer,
Terry Trombly,
and other engineers & scientists
within UCLA & the Northrop Grumman Corporation

Sources

- *Heaven and Earth - Global Warming - The Missing Science – Copyright 2009*
 - a book by [Ian Plimer](#), Twice winner of Australia's highest honor, the Eureka Prize, Professor in the School of Earth and Environmental Sciences, University of Adelaide, author of six other books for the general public in addition to 120 scientific papers
 - This book and Dr. Plimer stalled and possibly defeated a cap & trade bill working its way through the Australian legislature (Real Clear Politics 06/24/09)
 - It is voluminous and serves as the main source of climate history information for this briefing – a tour de force of 2009-level climate science written for the layman
 - 2,311 references
- *Empirical analysis of the solar contribution to global mean air surface temperature change (July 2009)*
 - A paper by [Nicola Scafetta](#), Department of Physics, Duke University, Durham, NC
- *Trends in the middle- and upper-level troposphere humidity from NCEP reanalysis data (Feb 2009) – by [Paltridge, Arking and Pook](#)*

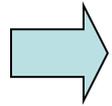
Sources (cont'd)

- *Falsification of Atmospheric CO2 Greenhouse Effects Within the Frame of Physics”* by [Gerhard Gerlich](#) and [Ralf D. Tscheuschner](#) 09/09/2007
- *Proposed NCEE Comments on Draft Technical Support Document for Endangerment Analysis for Greenhouse Gas Emissions under the Clean Air Act (circa June 2009)*
 - draft submittal of the 83-page report by [NCEE](#) (National Center for Environmental Economics, a branch of the EPA) [by EPA scientists unnamed](#)
 - reportedly [criticized and buried](#) in 2009 (Fox News Channel & CNET) [by EPA management](#):
 - "The administrator and the administration has decided to move forward [in support of ‘endangerment findings’ related to man-made CO2]...and [your comments do not help the legal or policy case for this decision.](#)"
- And other scientific papers

Scope & Further Study

- This report represents only a fraction of the scientific literature presenting data and analysis which address both the Earth's climate and the man-made global warming hypothesis and viability of its “supporting evidence”.
- Nevertheless, it is believed that the scope and depth of the subject matter included herein is **sufficient to give the reader a reasonably thorough and accurate background of the entire subject** .
- The aforementioned book by Ian Plimer (2009) is rich in references to historical and recent scientific literature on the Earth's climate as well as to reports authored by various proponents of the man-made theory of global warming (or “climate change”)
 - **A total of 2,311 references**
 - and is highly recommended as a beginning source for the serious investigator
- Attribution: *This tutorial includes numerous quotes from public statements and publications. The author has, in most cases cited the source of such, however, the author is not responsible for the accuracy of these beyond the sources cited.*

Topics



- Climate Fundamentals
- Climate History
- The “Man-made” Hypothesis
- Evidence & Computer Models
- IPCC, FunnyBiz, EPA, Congress & the Courts
- **Green New Deal**
U.S. House of Representatives
Resolution 109, February 7, 2019

- CO2 my clavicle! I just want to breath clean air.



A Distinction: Air Pollution –vs- CO2

- The “Asian Brown Cloud” is as large as Australia.
 - Its effect on humans is profound (and intolerable)
 - The industrial air pollution in western cities such as London during the first half of the 20th century was worse than that of Beijing today
 - The problem has been **largely solved** in European and North American cities **by effective pollution controls** on industrial site and transportation vehicle emission sources
 - The same measures will likely eventually solve the Asian air pollution problem as well
- CO2 is a plant food, **not a pollutant** 
 - It is essential to life
 - The combination of ample CO2 and a warmer global climate generally translates into prosperity for humankind

Climate Science Basics

- Why do we have to go through this?



- Why can't I just take your word for it?



- **“Trust me. The science is settled. We have consensus.”**



- “So, let’s just get on with cap and trade.”



- **That’s why!**

Al Gore’s Chicago Climate Exchange (CCX) is addressed on page 35

Matter & Energy

Ejected **matter** resulting from supernovae events: **-cosmic rays**** and from the Sun: nuclear particles in a high energy state

Protons, Alphas, & Positrons

+ charge

- charge

Betas

Solar magnetic field forces charged particle trajectories to change

Magnetic field of the Sun – greatest during high solar activity



... and

Radiation from the Sun and from novae and super novae elsewhere in the Galaxy:

RF, Infra Red, Ultraviolet, X-Ray, Gamma Ray **photons**

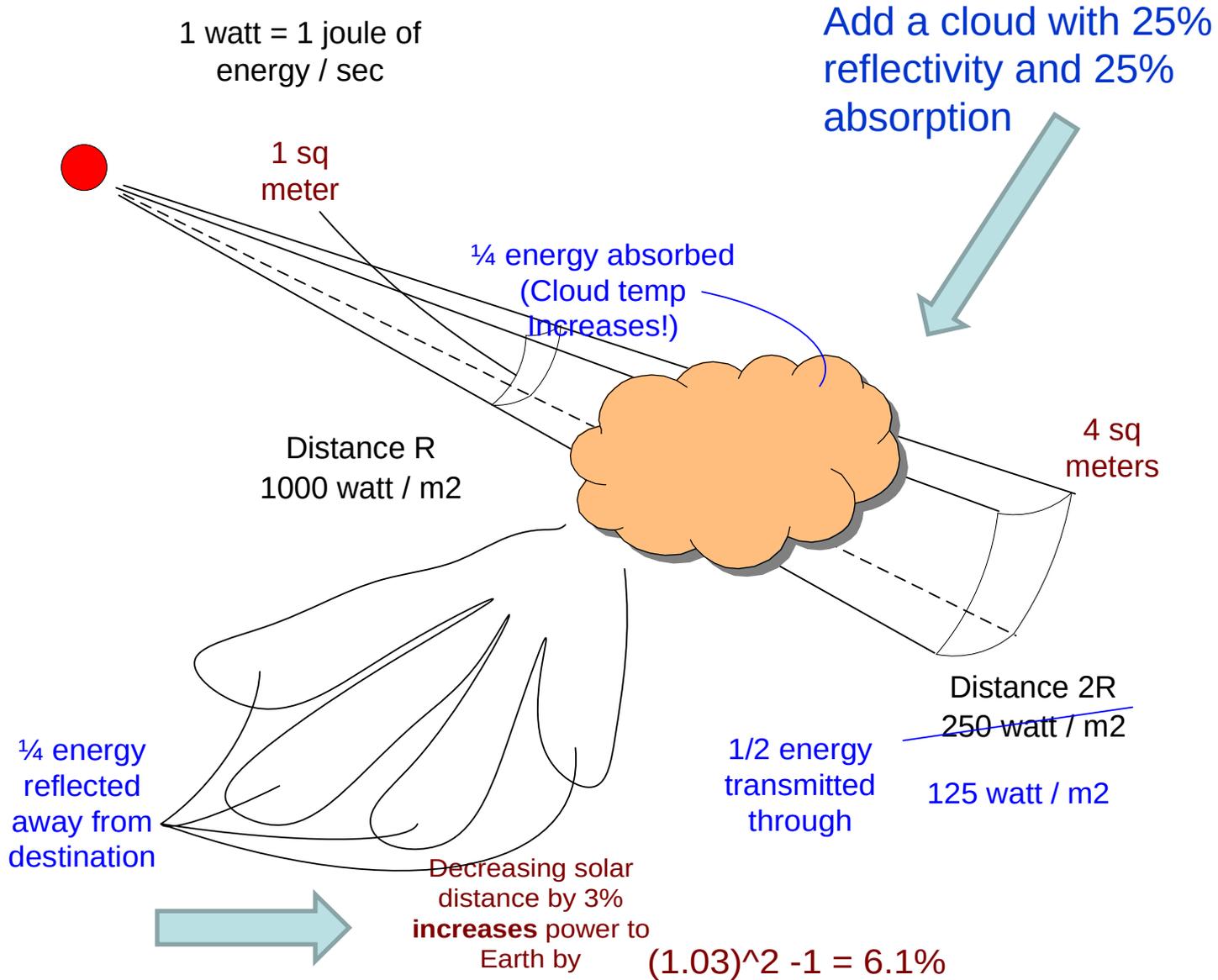


dissipate their energy via interaction with matter: state change (temperature increase), **ionization****, nuclear change

****Remember these!**



Solar Radiation Principles



The Cosmic Connection to Climate

- Beginning with Henrik Svensmark's work in 1996, a multitude of scientists and scientific projects began to focus on the connection of cosmic radiation to climate:
 - Extensive cloud chamber experiments involving atmospheric gases and ionizing radiation,
 - NASA's Earth Radiation Budget Experiment (3 satellites): incoming & outgoing atmospheric radiation and its correlation with the worldwide cloud cover detailed structure, and
 - Extensive multi-program satellite & telescope data on the cosmological structure of the Milky Way galaxy, the trajectory of the solar system through the galactic arms, detailed climate, geophysical & paleontological history of the Earth and the structure and history of star clusters near the Earth's galactic trajectory
 - **have all established with a high degree of certainty that**
 - **The primary driver of the Earth's climate is the combination of cosmic radiation and (to a lesser extent) the magnetic field strength of the sun:**
 - Low clouds – primarily cumulus – result in cooling at all latitudes except in Antarctica. In Antarctica, because of the high solar reflectivity of the ice layer, low clouds result in warming. At other latitudes, the combination of greater solar reflectivity from the cloud tops and greater (than with higher clouds) re-radiation back into space result in cooling.
 - Low cloud formation is greatly influenced by high energy cosmic particle penetration – with a correlation of 92%!
 - Cosmic particle flux, especially near star burst regions, is high within the galactic arms (where the particles are confined by strong magnetic fields) and comparatively low outside of the galactic arms.
- **Earth is a 'snowball' (almost entirely glacial) when the solar system is within galactic arms (and in the proximity of star clusters) and warm outside of these.**
 - The current warming will be only a brief respite from continued cooling due to our location in the Orion arm
- **This cosmic ray effect on climate is 10x greater than the variation in solar radiance (due to solar activity, Earth-to-sun distance and season)**

Solar, Galactic & Planetary Effects

During these periods of high solar activity the Sun's magnetic field and increased "wind" inhibit **cosmic particle penetration** from the Galaxy

Conversely during periods of low solar activity, the shielding of **cosmic particle penetration** is diminished,

Cosmic particles ionize atmospheric water vapor causing rain and snow

The gravitation of the four outer planets causes the sun to move about the Solar System's center of mass

Changing Sun-to-Earth distance

Sunspots boil to the surface in roughly an 11 year cycle ...



Increasing the sun's energy output and extending the solar magnetic field



The Earth's orbit varies in ellipticity and axis orientation

(The moon limits the spin axis wobbling)

The Earth's spin axis 'wobbles' (precession)

- These factors combine to cause seasonal variations in Earth's solar exposure

The variation in cosmic radiation, galactic gravitational contours & dust & solar activity are by far the major causes of climate variation

The so-called "greenhouse effect" merely piggy-backs off of these climate drivers

Cosmic Radiation

Bright blue stars formed in the galactic arms are short-lived eventually becoming supernovae which emit **cosmic particles** which are *confined by magnetic fields to the arms of the galaxy.*

Galactic **gas / dust** reduce the extent of the sun's magnetic field increasing **cosmic particle** penetration.

Reduced **solar activity** reduces both the sun's magnetic field and the solar "wind" also increasing **cosmic particle** penetration.

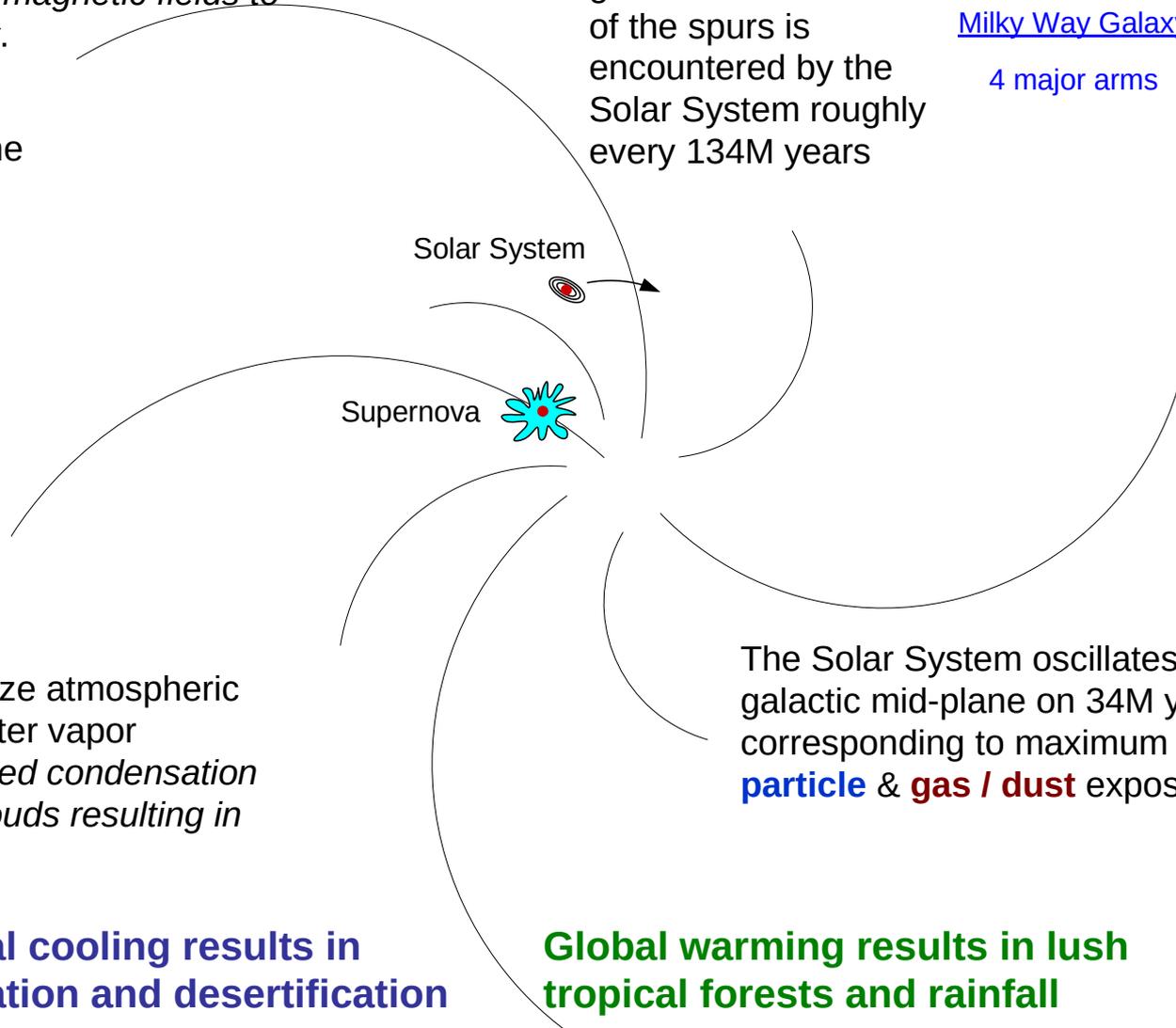
Cosmic particles ionize atmospheric molecules causing water vapor condensation. *Increased condensation increases low level clouds resulting in global cooling.*

Global cooling results in glaciation and desertification

Each of the two major galactic arms or one of the spurs is encountered by the Solar System roughly every 134M years

[Milky Way Galaxy](#)

4 major arms



The Solar System oscillates about the galactic mid-plane on 34M year cycles corresponding to maximum **cosmic particle** & **gas / dust** exposure

Global warming results in lush tropical forests and rainfall

Known Periodicities

| Known periodicities | Years |
|---|--------------|
| – Galactic (encounters with a galactic arm) | 143M |
| – Earth's orbit & spin axis: (Orbit: eccentricity, obliquity, axis orientation,; Spin axis: precession) | 100K |
| | 41K |
| | 21K |
| – Solar (magnetic field, sunspots, ...) | 1,500 |
| | 210 |
| | 87 |
| | 11 |
| – Lunar | 18.6 |

In Summary: Climate Drivers & Modifiers

- The Earth's climate is driven by three primary mechanisms :
 - Cosmic Radiation from (Milky Way) galactic sources
 - Emissions from the Sun
 - Radiation: infrared, ultraviolet, X-Ray, Gamma ray, etc.
 - Matter: molecules & ionized atoms (the solar wind)
 - Planetary perturbations (Milankovitch Cycles)
 - Precession (wobbling) of the Earth's spin axis
 - Variations in the Earth's orbit with respect to the Sun
 - Variations of the sun's position with respect to the Solar System center of mass

Note: The words “climate” and “mean Earth surface temperature” are equivalent

Climate Drivers & Modifiers (cont'd)

- Atmospheric gasses absorb radiation from the Earth (incorrectly named “the greenhouse effect”) – but the amount of radiation is primarily dependent on the three aforementioned mechanisms which, in turn, force oceanic-atmospheric energy exchange phenomena
 - Water vapor is by far the dominant gas:
 - **95% of the total “greenhouse effect” is due to water vapor**
 - Water vapor is produced by the sun and the core temperature of the planet
 - **Human activity does *not* create any significant amount of water vapor**
 - CO₂ in the atmosphere = 0.036%, NO₂ & methane = 0.013%
 - The **man-made** contribution = 0.12% CO₂ & 0.14% other GHG's
 - Condensed water (clouds) in the atmosphere reflect part of the solar radiation back into space (contributing to the “albedo” of the planet, i.e. the reflectivity of the planet to sunlight)
 - Clouds form both as a result of cosmic ray bombardment and convection of water vapor from the oceans, lakes, etc.

Evidential Sources of Climate History

- We can determine past global surface temperatures, glaciations, sea level changes, volcanic events, and atmospheric CO₂ concentrations from
 - Ice samples
 - Sea floor and lake sediment samples
 - Tree rings
 - Rocks
 - Fossils
 - Bog and peat constituents
 - Pollen (from fossils)
 - Human historical records:
 - Scientific, financial, harvest, prices, government, legal, shipping logs, etc.
- Scientific disciplines required:
 - Astronomy, solar physics, geology, geochronology, geochemistry, sedimentology, tectonics, paleontology, palaeoecology, glaciology, climatology, meteorology, oceanography, ecology, archaeology, and history
 - Are all of these essential disciplines adequately represented within the IPCC science staff?
 - **Not really!** – more to follow on the IPCC

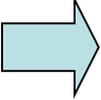
Evidential Sources of Climate History (cont'd)

- Evidence of solar and galactic phenomena (e.g. solar flares, cosmic ray & meteorite showers) is obtained from ancient ice and sediment layers
 - Cosmic rays produce radioactive atoms in the atmosphere and interact with dust particles to produce Be10 leaving signatures in ice, fossils, tree rings, bogs & peat
 - These signatures correlate strongly with solar cycles, ancient temperature, ice, atmospheric CO2 levels (for historical comparison to current) and passage of the solar system through the various “arms” of the Milky Way Galaxy
- We also know precisely (from mechanical laws)
 - The Earth’s rotational and orbital position history
 - The Solar System’s location history with respect to the (Milky Way) galaxy’s gravitational field contours, debris & gas clouds, cosmic rays, Supernova events, etc.

Temperature & Cosmic Ray Evidence

- Evaporation of water preferentially favors water with lighter oxygen (O_{16}). This water falls as snow and accumulates as ice sheets.
- During glaciation light oxygen has been removed from the oceans and the water in the oceans becomes relatively concentrated in heavy oxygen (O_{18}). So too does life.
- Floating marine organisms in glacial times are enriched in O_{18} whereas in warmer times, they are enriched in O_{16} .
- Thus, by measuring the oxygen in the ice, the past temperature at that layer of snowfall can be calculated.
- Trace amounts of other isotopes in ice such as C_{14} and Be_{10} give us the history of the activity of the Sun and the varying input cosmic radiation.

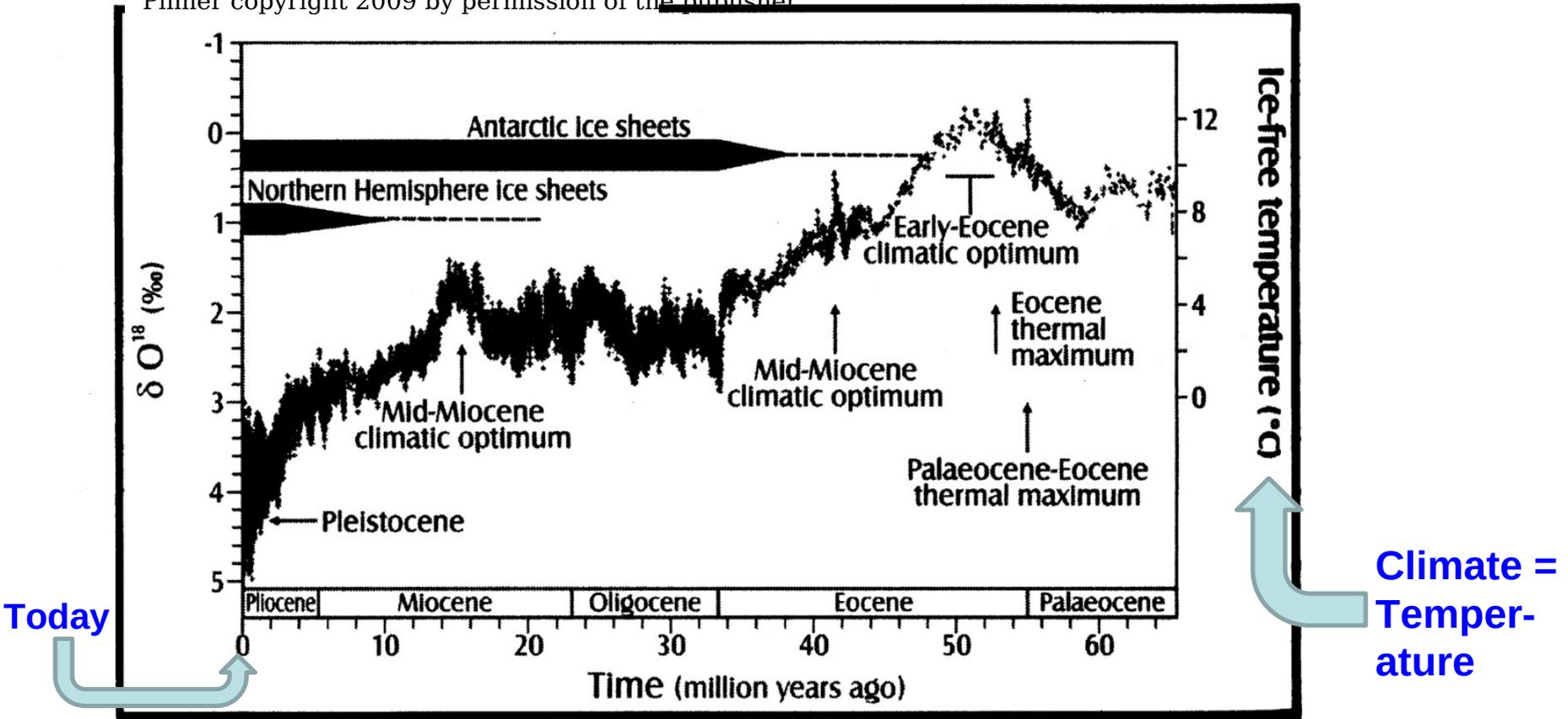
Topics

- Climate Fundamentals
-  • Climate History
- The “Man-made” Hypothesis
- Evidence & Computer Models
- IPCC, FunnyBiz, EPA, Congress & the Courts
- Kyoto & Waxman-Markey (ACES)

Climate reconstruction over the last 65M years showing ice sheet developments. Earth is currently cool.

Reprinted from the book *Heaven and Earth* by Ian Plimer copyright 2009 by permission of the publisher

P. 245



The 65.5 Ma extinction was due to formation of the Deccan traps in India over an 800K year period – not the Chicxulub asteroid.
Only by completely ignoring the history of the planet can it be claimed that global warming can produce extinction

Global **sea level** over the past 450K years.

The last interglacial (warming) period had a level **7 meters higher than present**.

from the book *Heaven and Earth* by

P. 317

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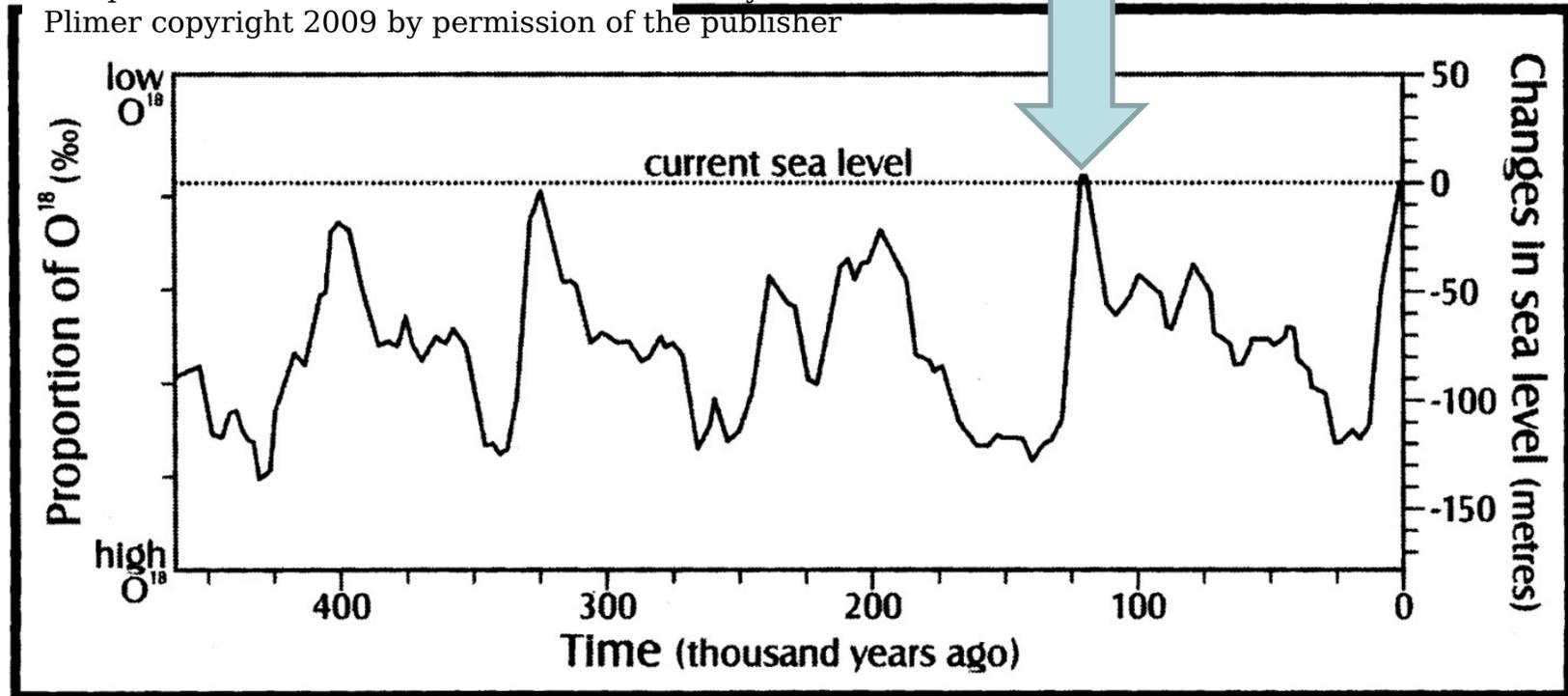


Figure 32: Global sea level over the last 450,000 years calculated from oxygen isotope proxies¹⁶⁴⁰ showing high sea levels in interglacials and low sea levels during glaciation. During glaciation, sea level fluctuates greatly and sea level during the last interglacial was some 7 metres higher than at present. Modern sea level is both slightly higher and lower than previous interglacials. There is nothing extraordinary about the modern sea level or modern sea level change.

Previous interglacial periods have been warmer than the current one and **Polar bears have lived in all of them.**

from the book *Heaven and Earth* by

P. 241

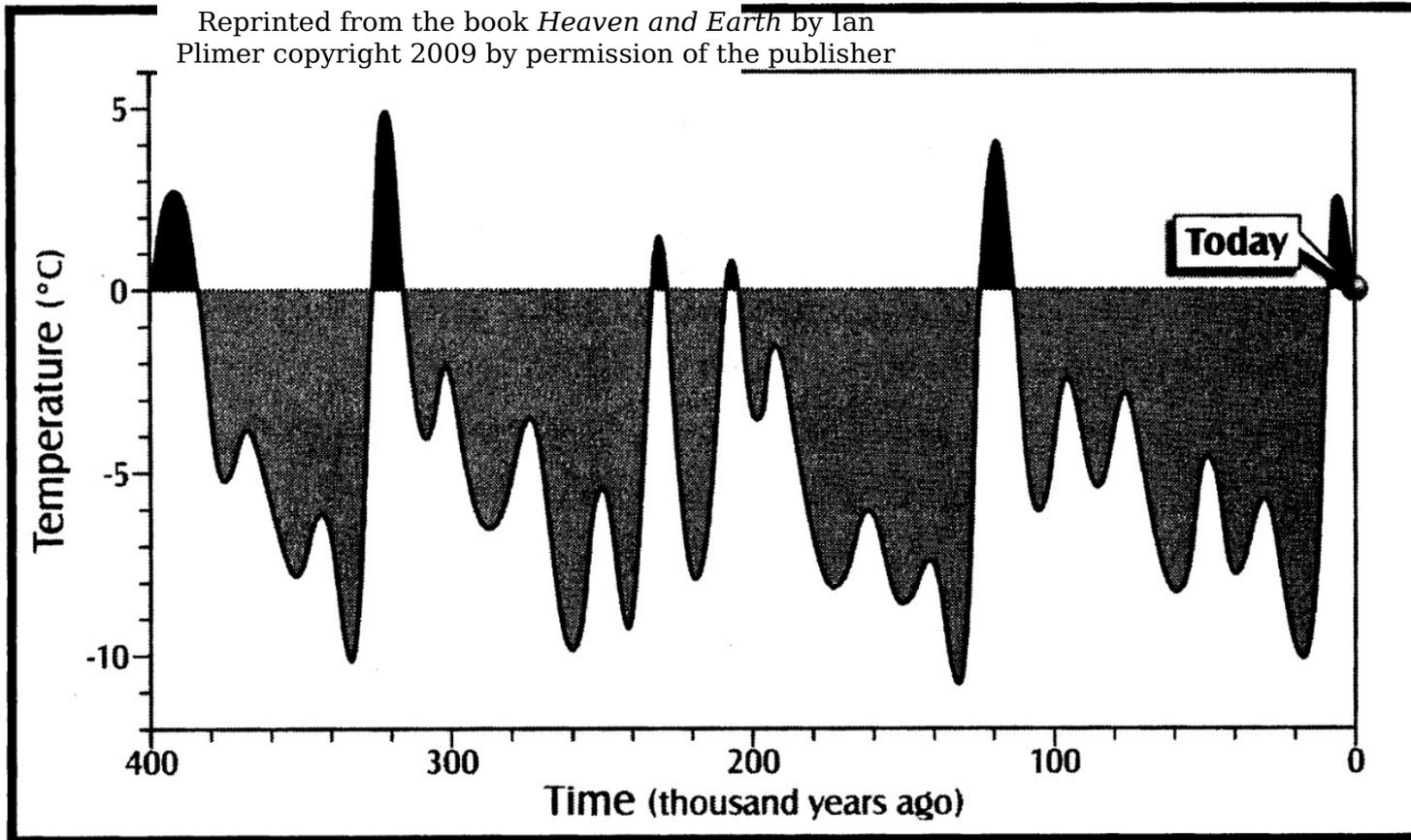


Figure 23: Cycles of glacials (grey) and interglacials (black) over the last 400,000 years showing that the current interglacial is not as warm as previous interglacials, that the current interglacial should be followed by glaciation and that there is nothing extraordinary about the modern climate. Polar bears lived in all previous interglacials, some of which were warmer and longer than the present interglacial.

Arctic sea ice area variation (lower plot) and annual change in Antarctic sea ice (upper plot)

There is little or no change associated with the late 20th Century warming.

P. 287

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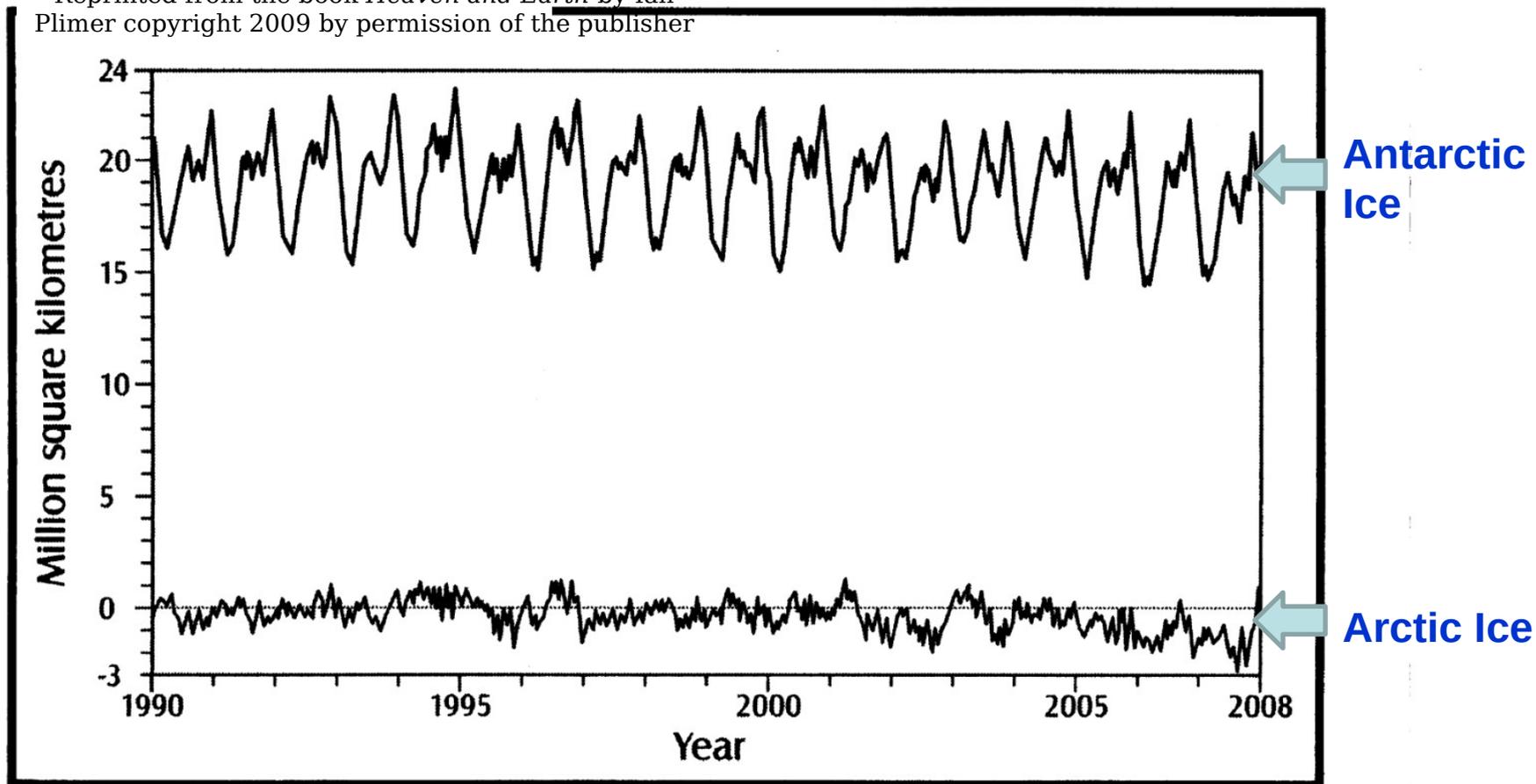
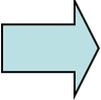


Figure 29: Area of global sea ice showing Arctic sea ice variations (lower graph) and cyclical changes in the total area of Antarctic sea ice (upper graph). There is little or no change in global sea ice associated with the Late 20th Century Warming.

Topics

- Climate Fundamentals
- Climate History
- • The “Man-made” Hypothesis
- Evidence & Computer Models
- IPCC, FunnyBiz, EPA, Congress & the Courts
- Kyoto & Waxman-Markey (ACES)

Beginnings of a Movement*

- 1827 – Josephe Fourier (Fourier analysis) suggests that the Earth’s atmosphere traps solar heat.
- 1860 – John Tyndall reports that only the “greenhouse” gases in the atmosphere have this property
- 1896 – Swedish chemist Svante Arrhenius calculates that a doubling of atmospheric CO₂ would increase global temperatures 5 deg C
 - **He was wrong!**
- 1938 – English meteorologist Guy Challender suggests that the temperature rise of the 1920s & 1930s (Oklahoma dust bowl – “Grapes of Wrath”) might be due to human release of CO₂ into the atmosphere
 - He was *wrong* about the direct causation to temperature change *but right* about CO₂ being good for agriculture
 - The climate began to cool about that time (1940 – 1976)

* This and the next 2 charts are quoted from “Heaven and Earth” by Ian Plimer

A Movement Gathers Steam - but Which is it?

- 24 Jun **1974** issue of *Time* (also *Newsweek* 28 Apr **1975** and *National Geographic* 1976) : “The world will suffer from **a new ice age**”
 - Not a bad prediction in that we have been in an ice age which began 37M years ago and are currently in an “interglacial” warming period within that ice age
- 3 Apr **2006** – *Time* issues a report predicting **dire consequences** for humankind **due to global warming** - the same effect that was heralded in the 1974 issue
- **1977** – Climatologist Stephen Schneider co-authors a book warning of the horrors of **a new ice age**
 - He now warns us of **global warming**
- **1975** – Lowell Ponte publishes a book on **global cooling** stating in stark terms the nature of the challenge to humans in adapting to the new freeze
 - **Substitute “warming” for “cooling”** and we have the identical alarmism **30 years later**
- **One gets the idea: The prognostications are consistently contradictory**

Climbing Aboard the Bandwagon

- During the cold war, **environmental groups** were then **anti-nuclear**
 - After the collapse of the Soviet Union, **they became “green”**
- 1988 – The UN establishes the “Intergovernmental Panel on Climate Change” (IPCC)
 - and attracts the **greens**
- Crispin Tickell, a lobbyist for the IPCC was the UN’s UK permanent representative. In **1977** he too published a book on **global cooling**
 - but now warns of **global warming**.
- 1989 – The US Senate Committee on Science, Technology and Space – chaired by Al Gore – addresses the global warming issue
 - **Evidence contrary to the man-made hypothesis is dismissed!**
 - The Climate Action Network is formed, the media joins the campaign and many climb aboard the band wagon
 - **Those with a dissenting opinion are attacked in the *NY Times***
- 2003 – Al Gore’s Chicago Climate Exchange (CCX) is formed to facilitate greenhouse gas reduction, encourage green energy investment and institute a carbon credit trading exchange - partnered with IntercontinentalExchange (ICX)

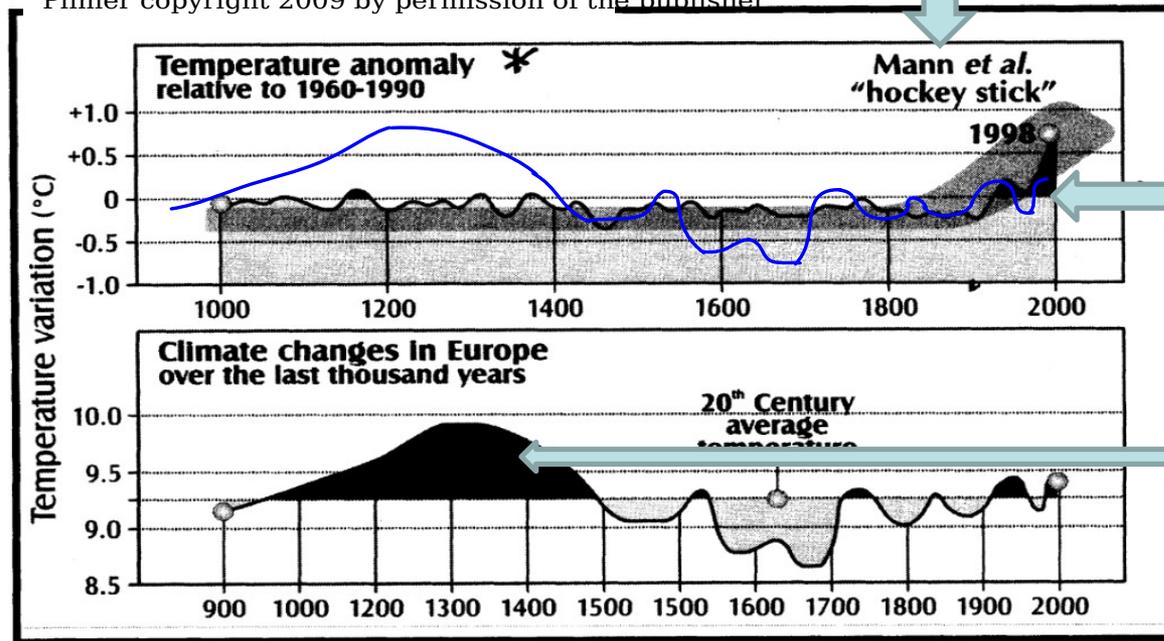
A Historical Quote

- "If you tell a lie big enough and keep repeating it, people will eventually come to believe it.
- The lie can be maintained only for such time as the State can shield the people from the political, economic or military consequences of the lie.
- **It thus becomes vitally important for the State to use all of its powers to repress dissent**, for the truth is the mortal enemy of the lie,
- and thus by extension the truth is the greatest enemy of the State."
 - Joseph Goebbels
 - Reich Minister of Public Enlightenment and Propaganda under Adolph Hitler 1933

The Mann et al “hockey stick” was not in accord with hundreds of previous validated studies yet failed to show why it differed.

This “hockey stick” was the icon of the IPCC.

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Actual temperature change data from lower plot (blue curve)

The Medieval warming period

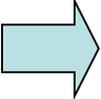
Congressional Investigation - To be continued...

Well documented and validated historical data in the lower plot was **omitted in the data employed in the “hockey stick” plot.**

Eight years later, after a long period of obfuscation and the withholding of the data and the editing algorithm, **the fraud was exposed.**

Nevertheless, the IPCC continued to refer positively to the hockey stick plot.

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Carbon Distributions & Circulation

- 3,000B tons of CO₂ in the atmosphere = 800B tons of Carbon
- Carbon distributions in the atmosphere-ocean-upper crust system:
 - Atmosphere 0.0012%
 - Oceans & Ice 0.0600%
 - Soil, vegetation, humus 0.0031%
 - Carbonate rock & limestone 99.9357%
- Each year the atmosphere
 - exchanges 11.3% of its total CO₂ with the surface ocean and 13.8% with vegetation
 - yields at least half of its human CO₂ emissions to soil and ocean lock up
- Volcanoes produce more CO₂ than vehicles + industry
- Animals produce 25 times as much CO₂ as vehicles + industry
- CO₂ is a plant food, not a pollutant!
 - **The EPA (and the state of California) have conjured up a whole new meaning for the term “pollutant”**

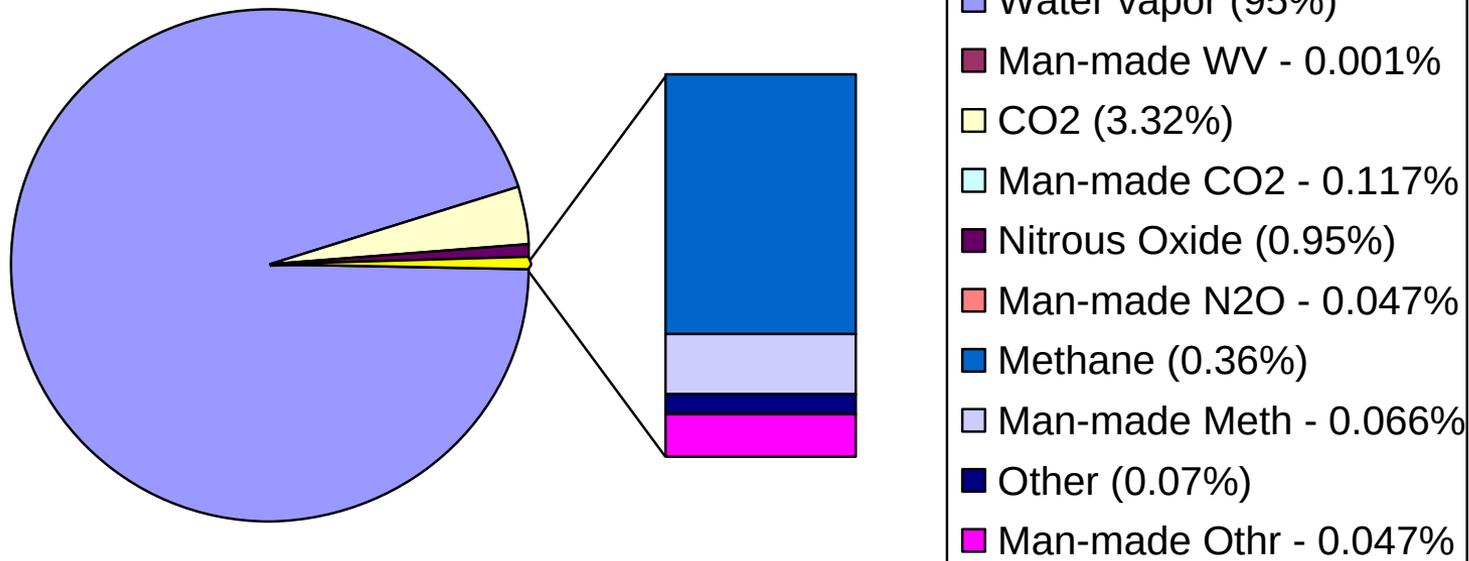
The so-called “greenhouse effect” is non-existent in a physics sense as applied to the Earth, however, we use it here as just another name for heat capture and re-radiation (predominantly toward space). In order to maintain a reference to popular nomenclature we acquiesce to the name “greenhouse gases: ‘GHG’s”

Human activity produces some GHG’s

How significant is this contribution to the greenhouse effect?

Total natural GHG contribution = 99.72%

Total man-made GHG contribution = 0.28%**



**** Human activity is an insignificant contributor to the “greenhouse effect!”**

Sources: Studies by F. Singer, W. Broecker et al

The Dirty Little Secret About the “Greenhouse Effect”

Abstract to the 114-page analysis report (Version 3) “**Falsification of Atmospheric CO2 Greenhouse Effects Within the Frame of Physics**”, 204 references

By Gerhard Gerlich and Ralf D. Tscheuschner 09/09/2007:

The atmospheric greenhouse effect, an idea that authors trace back to the traditional works of Fourier 1824, Tyndall 1861, and Arrhenius 1896, and which is still supported in global climatology, essentially describes a fictitious mechanism, in which a planetary atmosphere acts as a heat pump driven by an environment that is *radiatively interacting with* but *radiatively equilibrated to* the atmospheric system. According to the second law of thermodynamics **such a planetary machine can never exist**. Nevertheless, in almost all texts of global climatology and in a widespread secondary literature it is taken for granted that such mechanism is real and stands on a firm scientific foundation. In this paper the popular conjecture is analyzed and the underlying physical principles are clarified. **By showing that** (a) there are no common physical laws between the warming phenomenon in glass houses and the fictitious atmospheric greenhouse effects, (b) there are no calculations to determine an average surface temperature of a planet, (c) the frequently mentioned difference of 33 C is a meaningless number calculated wrongly, (d) the formulas of cavity radiation are used inappropriately, (e) the assumption of a radiative balance is unphysical, (f) thermal conductivity and friction must not be set to zero, **the atmospheric greenhouse conjecture is falsified**.



Increase in greenhouse gas-induced *atmospheric* temperature change is **highly non-linear with CO₂ absorbed by the atmospheric**. Thus, with the atmosphere currently at 385 *parts per million by volume (ppmv)*, a doubling or quadrupling of CO₂ will have very little effect.

This is why CO₂ content in the Earth's distant past was 25 times higher than at present and **there was no temperature “tipping point” as claimed by the IPCC.**

from the book *Heaven and Earth* by

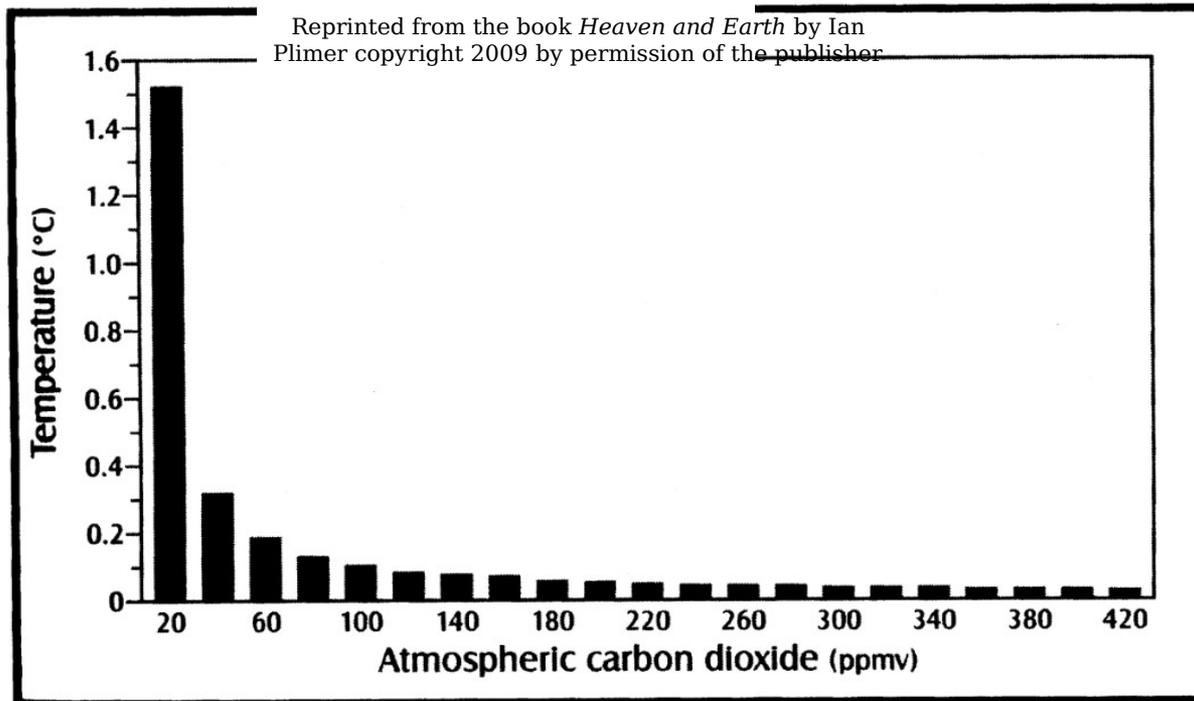


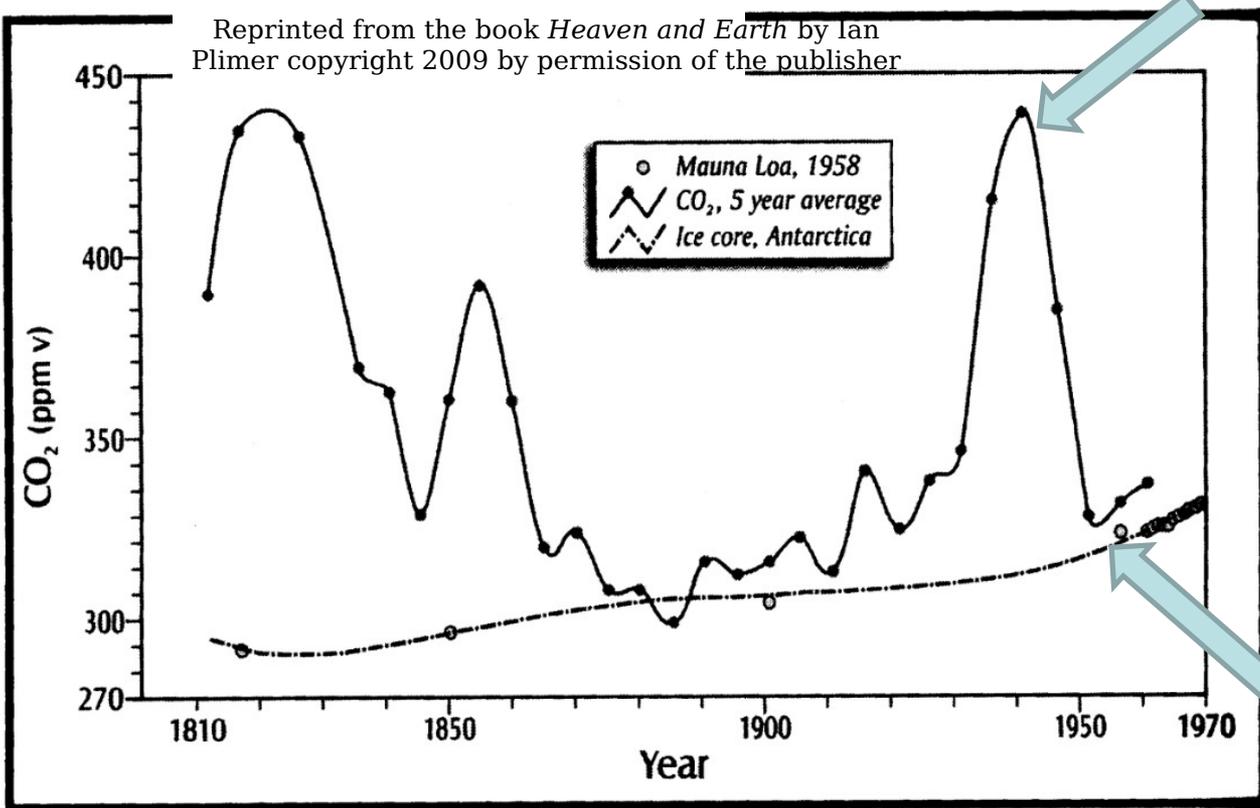
Figure 50: The first 20 ppmv of CO₂ operating as a greenhouse gas in the atmosphere has the greatest effect on temperature. After about 200 ppmv, CO₂ has done its job as a greenhouse gas and has adsorbed almost all the infra-red energy it can absorb. Once the atmosphere is at the present CO₂ content of 385 ppmv, a doubling or quadrupling of the atmospheric CO₂ content will have very little effect on atmospheric temperature. This is why in former times when the atmospheric CO₂ content was up to 25 times the current content, there was no runaway greenhouse or “tipping point”.

Pettenkofer method CO2 history – from Antarctic ice core measurements –vs- that promoted by the IPCC in order to show pre-industrial CO2 as lower than at the onset of the industrial age.

180-year Pettenkofer method

from the book *Heaven and Earth* by

Ian



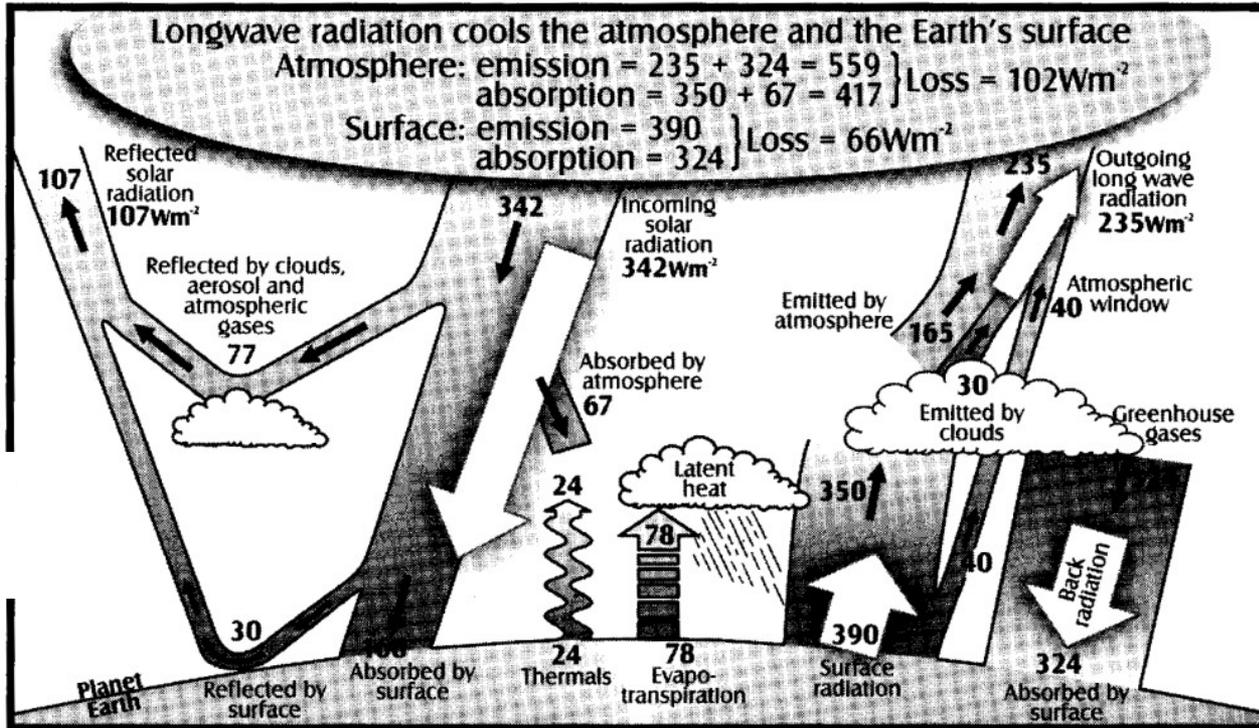
Data employed in IPCC models has been edited** to remove pre-industrial age CO2 concentrations which exceed the current

** A staggering 82% of the Mauna Loa IR CO2 data is simply removed as 'poor data' by an operator before reporting. The smooth variations indicated by the edited Mauna Loa CO2 data are not natural.

Figure 52: Determinations of atmospheric CO₂ by the Pettenkofer method (solid line of 5 year averages) between 1812 and 1961, deductions of atmospheric CO₂ from Antarctic ice core (gas chromatography) and edited measurements of atmospheric CO₂ from Mauna Loa (infra-red spectroscopy, 1958 and onwards). One method of measurement shows great variability in atmospheric CO₂ yet another method does not. The high values of CO₂ by the Pettenkofer method have been rejected by the IPCC yet the lowest value is used by the IPCC as the baseline pre-industrial value for atmospheric CO₂.

What atmospheric source of energy.

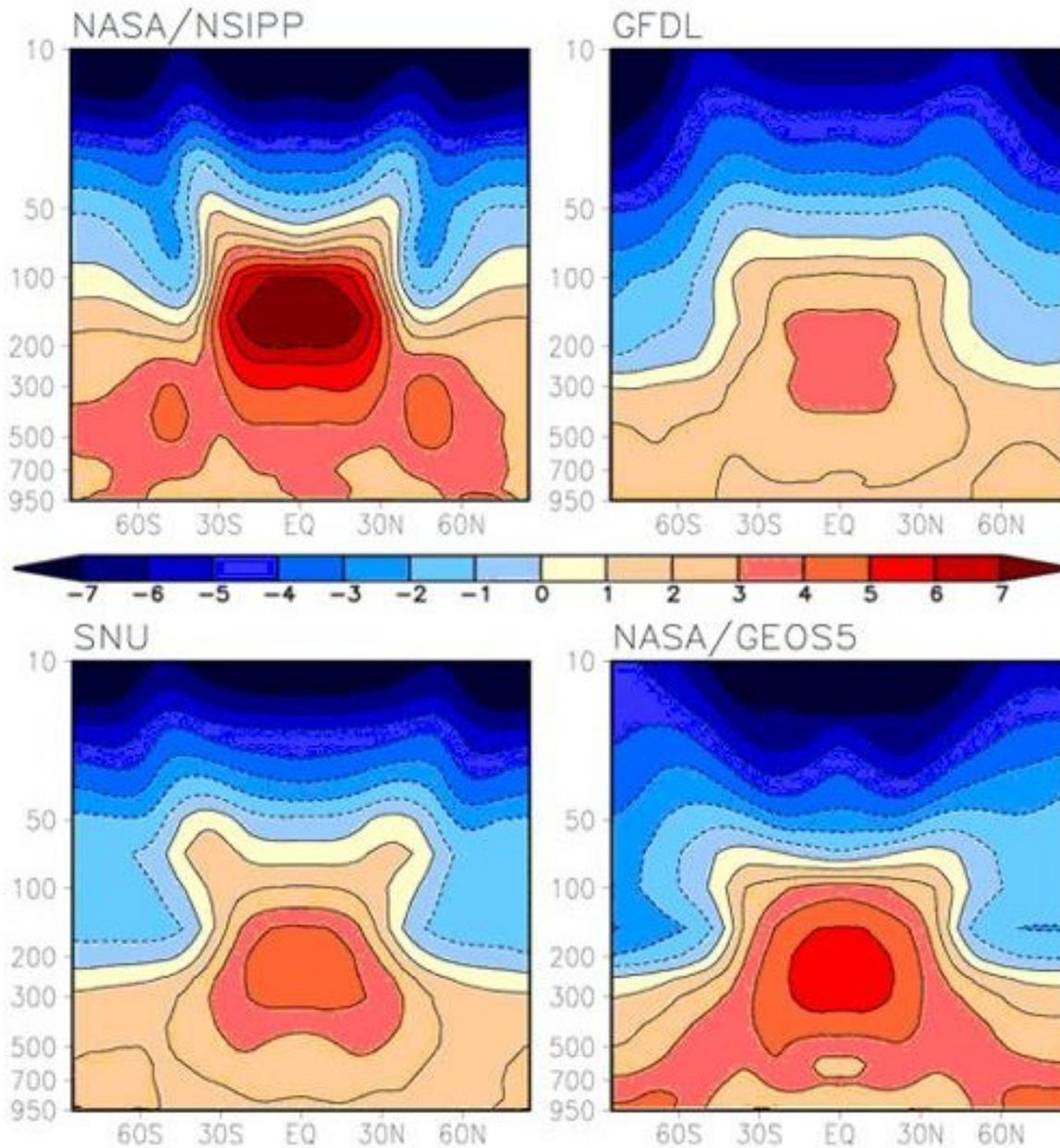
Figure 44: Atmospheric greenhouse gases showing the proportion of greenhouse gases derived from natural and human activities. About 98% of the greenhouse effect in the atmosphere is due to water vapour and very little of the effect of CO₂ is due to human activity.



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If there were a hypothetical doubling of CO₂ absorption, the non-linear increase in temperature would not drive greater than a **few tenths of a deg C** in surface temperature since (in the absence of greater Solar output) the increase in CO₂ backscattered energy would be easily offset by greater surface radiation and evaporative cooling.

In a strictly physics sense the “greenhouse effect” is a myth.



Four IPCC model predictions on atmospheric temperature assuming a doubling of atmospheric CO₂ – all predicting equatorial warming.

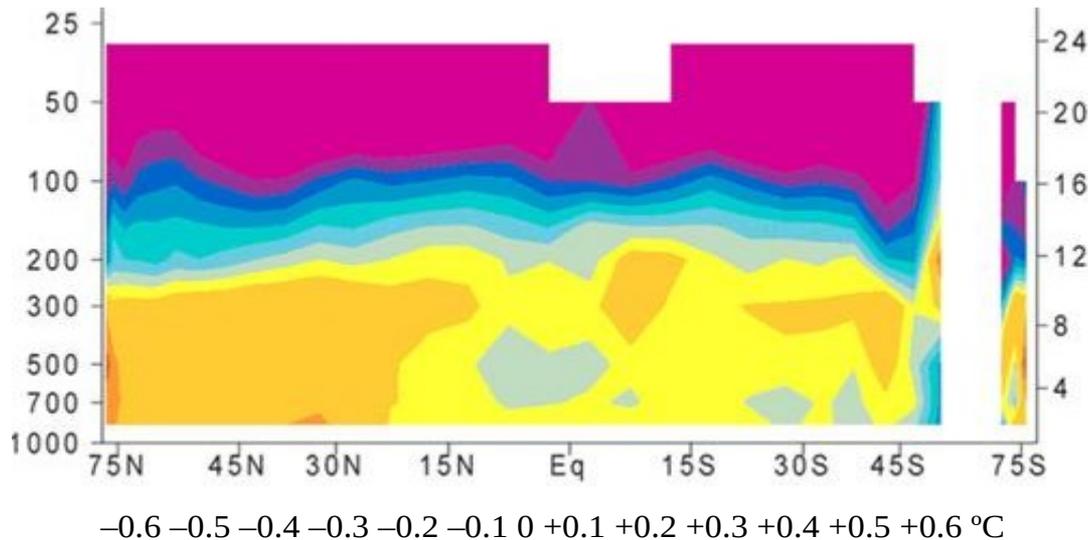
Color scale is change in temperature (deg C). Horizontal scale is latitude (deg N), Vertical scale is air pressure – equivalent to zero to 30 Km altitude above mean sea level.

Note that the peak temperature increase predicted by the modeling = 7 deg C

Actual atmospheric temperatures from globally distributed high altitude radiosonde balloon measurements from 1958 through 2006.

Based on corresponding CO₂ variations, **none of the four IPCC model predictions (previous chart) could be validated.**

Yet the predictions are **still used by the IPCC.** Note greatly reduced temperature scale (deg C per 10-year period) compared with previous chart.



No “hot-spot” signature of anthropogenic “greenhouse warming” appears in the record of real-world temperature observations. Source: HadAT2 radiosonde observations, from CCSP (2006), p. 116, fig. 5.7E. Decadal rates of change observed since 1958 through 2006 (deg C per 10-year period)

The subject of the EPA/NCEE-cited paper by Paltridge, Arking, and Pook

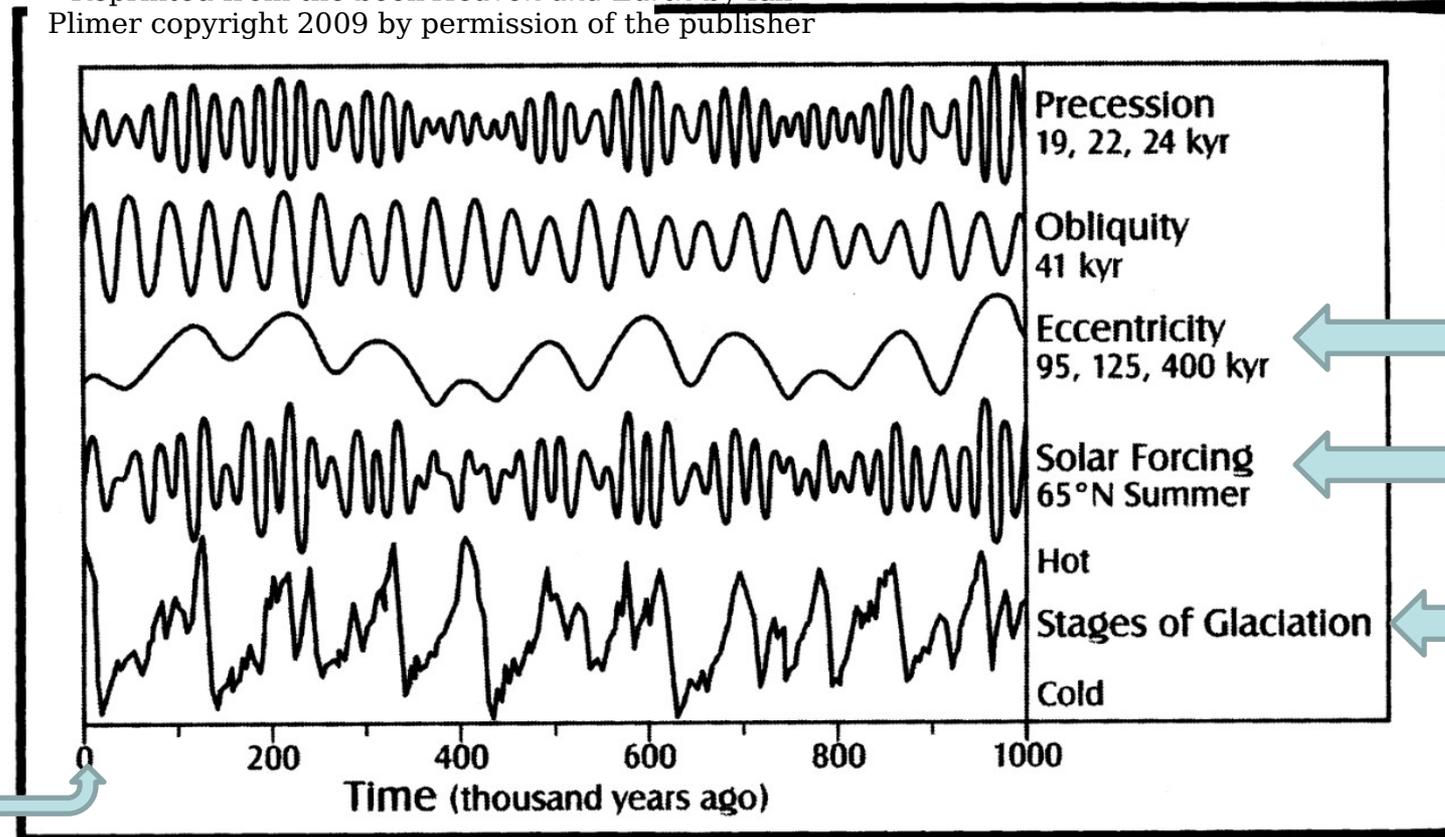
IPCC models do not account for the complexities of oceanic thermal transfer, atmospheric boundary layer excursions, evaporation or cloud formation

The various IPCC computer models have been shown to be **greatly oversimplified** in terms of correctly modeling – or even including! - evidential behavior of the major climate mechanisms

Milankovitch Cycles showing relationship of temperature with Earth-sun orbital relationships and Earth spin axis

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Note especially the synchronous relationship among

- 1 - eccentricity** (the main component of earth-to-sun distance),
- 2 - Solar forcing** (the intensity of the Sun's radiation)
- 3 - Surface temperature** (Stages of Glaciation; Earth is currently between ice ages)

Last 6M years of temperature (per oxygen ratio) showing **Milankovitch Cycle effects**. The shift to weaker 100K year cycles about 1M years ago is unexplained.

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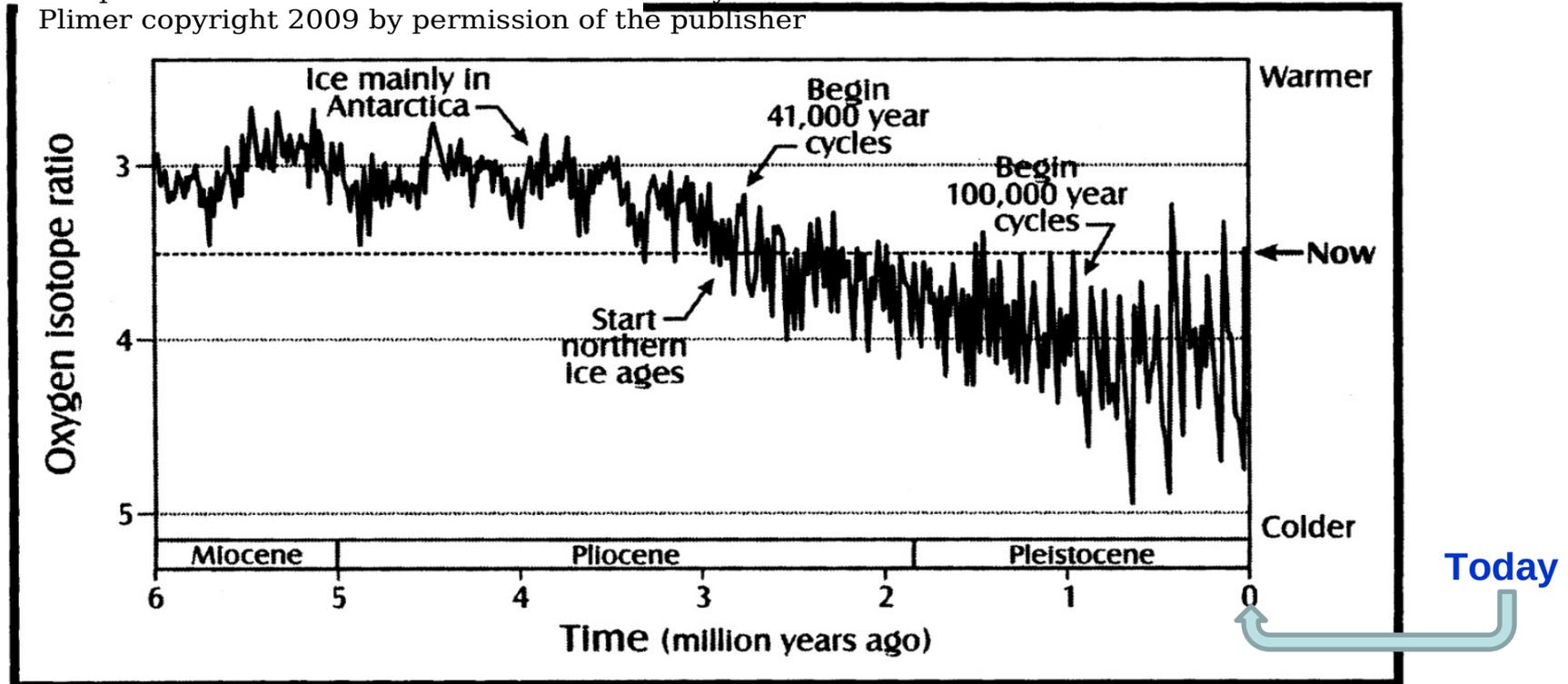


Figure 21: The last 6 million years of climate showing cooling over the last 3 million years and changes from 41,000 to 100,000-year Milankovitch Cycles. Since the start of the last glaciation at 2.67 Ma, there were very large variations in temperature (as shown by the oxygen isotope ratios) and the unexplained shift from the 41,000-year Milankovitch to the weaker 100,000-year Milankovitch Cycle at about 1 Ma. Climate at present is cooler than in the early Pliocene and Miocene when the planet was its normal warm wet greenhouse self (despite having Antarctic ice sheets).

Temperature increased as sunspot cycle length decreased, showing strong correlation.

There is no correlation of temperature with CO₂.

The hypothesis that CO₂ causes global warming is false.

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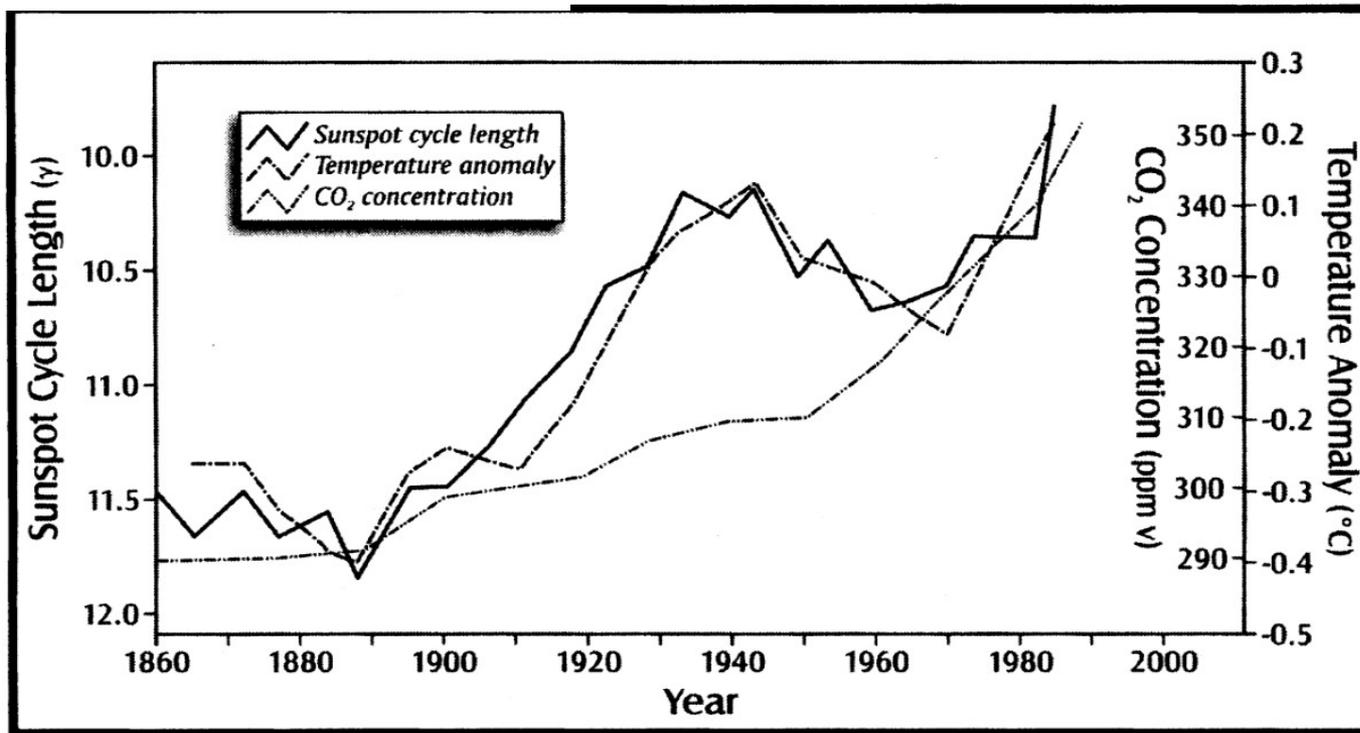


Figure 15: Plot of the last 140 years of the increase and decrease of temperature (temperature anomaly) against the length of sunspots (a proxy for solar activity). This shows a correlation. There is no correlation between temperature and CO₂. The hypothesis that human emissions of CO₂ create global warming is shown to be false.

Carboniferous and Jurassic ice ages occurred when atmospheric CO₂ was higher than at present.

The hypothesis that high atmospheric CO₂ produces global warming is therefore invalid!

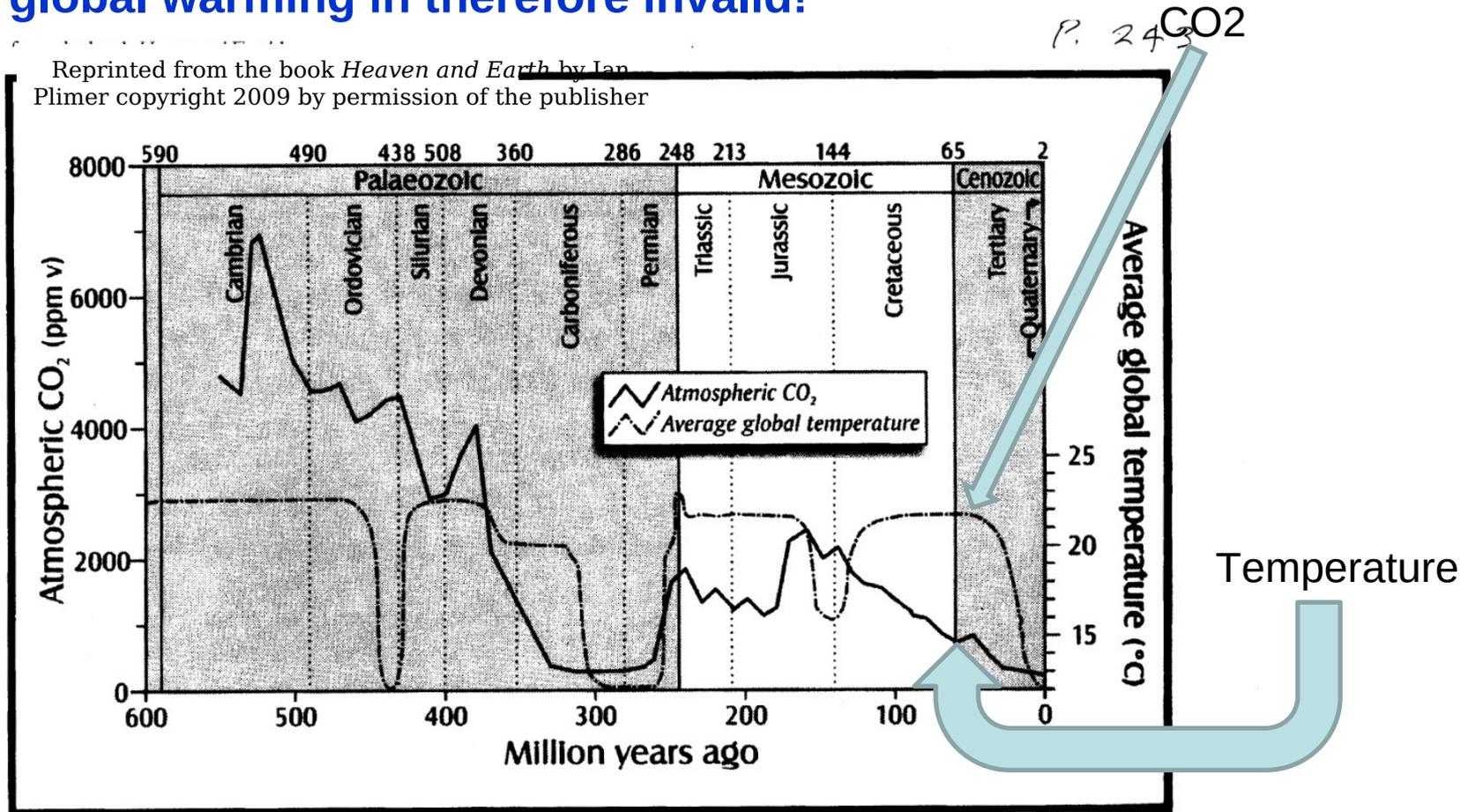


Figure 24: Plot of atmospheric CO₂, time and temperature showing that the Ordovician, Permian-Carboniferous and Jurassic ice ages occurred when atmospheric CO₂ was higher than at present. The hypothesis that a high atmospheric CO₂ produces global warming is therefore invalid.

NCEE Draft Report to EPA Management Early 2009

- The **National Center for Environmental Economics (NCEE)** is a branch of the Environmental Protection Agency (EPA)
- NCEE scientists were tasked to review a draft report, known as the “TSD” = Technical Support Document, which would serve as both (1) a guide for legislative recommendations to the US congress on “Human Endangerment from Greenhouse Gases” and (2) justification for regulating CO2 under the Clean Air Act.
- **The staff scientists issued a highly critical report taking the IPCC position on climate change to task, casting doubt on the viability of the IPCC climate models employed by EPA, and recommending an independent investigation by the EPA on the scientific basis or lack thereof for the man-made global warming hypothesis**
- **Their summary:**
 - 1 - The TSD should not have been based on the IPCC AR4 report since it was out of date “in a rapidly changing field”
 - 2 – “Global temperatures have declined and the PDO and AMO (Pacific and Atlantic decadal and multidecadal oscillations) have gone negative while atmospheric CO2 has increased and CO2 emissions have accelerated”

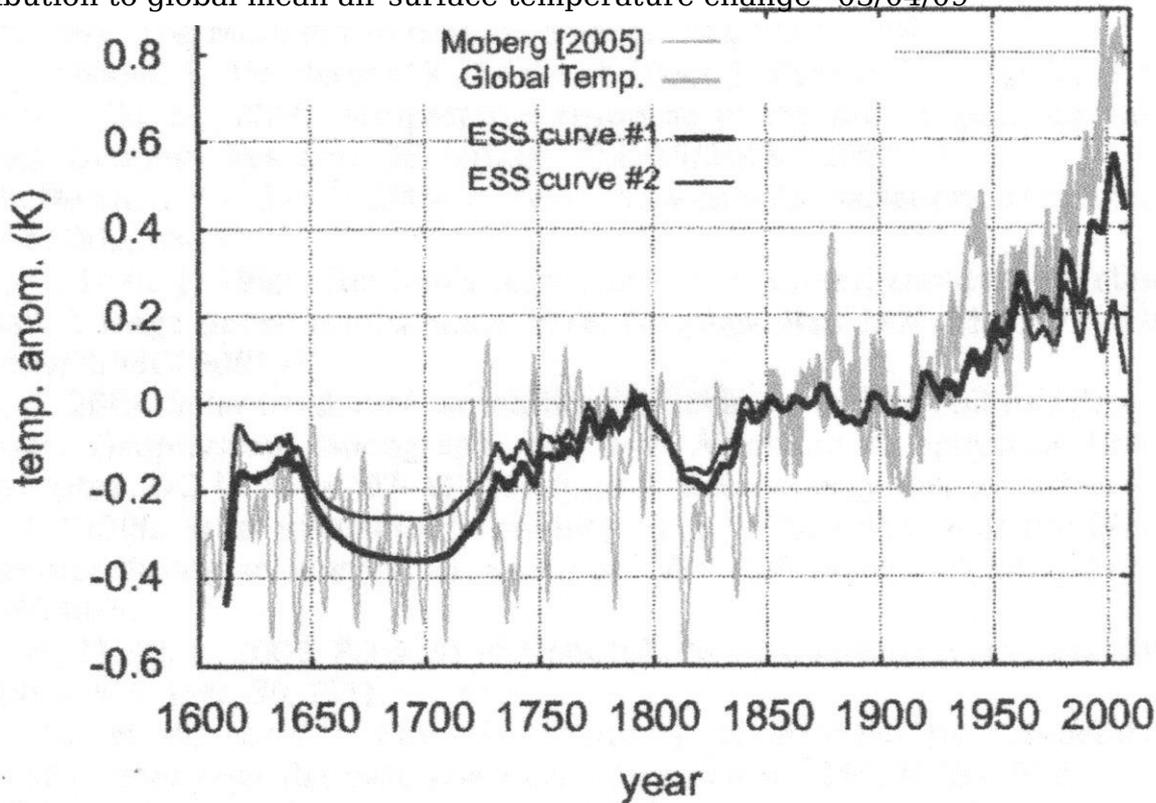
NCEE Summary (cont'd)

- 3 – “The consensus on Atlantic hurricanes has changed: the future will be much like the past”
- 4 – “A new 2009 paper finds that the crucial assumption in the GCM **models used by the IPCC** concerning strongly positive feedback from water vapor is **not supported by empirical evidence** and that the feedback is actually negative” (a following slide)
- 5 – “A new 2009 paper by Scafetta and West suggest that **the IPCC used faulty solar data** in dismissing the direct effect of solar variability on global temperatures. Their research suggests that solar variability could account for up to 68% of the increase in Earth's global temperatures.” (a following slide)
- 6 – “These developments alone should influence EPA assessment” They’re based on old science and need to be revised.
- “Other disturbing inconsistencies” regarding the IPCC climate models and their glaring shortcomings. These six paragraphs go into much of what we’ve discussed in the foregoing slides.
- **“These inconsistencies are so important and sufficiently abstruse [incomprehensible, unfathomable] as to practically demand that the EPA undertake an independent assessment and study of the scientific facts”**

NCEE Report Reference: Solar Forcing Work by Scafetta et al

- Two modeling approaches: energy balance models (EBMs) and global climate model (GCM)
 - IPCC GCM model does not capture water vapor or clouds
 - Large discrepancies between model predictions & reality
- Alternative approach: multilinear regression using simple EBMs
 - inputs are the various climate forcings (solar, GHG, cosmic,...), outputs are proportional to temperature
 - $\Delta T(t) = \sum_F(\alpha_F S_F(t) + N(t)$
 - Run EBM with known F's to get $S_F(t)$ = climate forcing functions
 - Regress to get $\alpha_{F'S}$ (amplifications) by using known temp history $\Delta T(t)$
- Results show **IPCC models are missing important climate mechanisms which amplify Solar signatures on climate by a large factor**
 - IPCC models assume that only TSI is relevant whereas **cosmic radiation** affects cloud formation and, thus, albedo (solar reflection from the Earth and Earth's atmosphere)

From the paper by Nicola Scafetta "Empirical analysis of the solar contribution to global mean air surface temperature change" 03/04/09



Employing measured Total Solar Irradiance (TSI) as the solar forcing component yields strong correlation of multilinear regression modeling results with historical global temperature data.

Indicating that the Sun is, by far, the major climate driver

Fig. 6. ESS curves against a paleoclimate temperature reconstruction (Moberg et al., 2005) from 1600 to 1850 (thin gray line) and global surface temperature record since 1950 (Brohan et al., 2006) (thick black line). The ESS (thick gray) curve is obtained with $\tau_1 = 0.4 \text{ yr}$, $\tau_2 = 12 \text{ yr}$ and $k_{1S} = 0.053 \text{ K/Wm}^{-2}$, $k_{2S} = 0.41 \text{ K/Wm}^{-2}$ with the model forced with the TSI reconstruction [A]. The ESS (thin black) curve is obtained with $\tau_1 = 0.4 \text{ yr}$, $\tau_2 = 8 \text{ yr}$ and $k_{1S} = 0.053 \text{ K/Wm}^{-2}$, $k_{2S} = 0.28 \text{ K/Wm}^{-2}$ with the model forced with the TSI reconstruction [C].

NCEE Report Reference: Water vapor feedback

- The insignificance of CO₂ – and especially the very small human contribution thereof - as a greenhouse gas compared with water vapor is ***a huge problem for the “man-made” proponents.*** Thus...
- The **IPCC models assume a positive feedback** on water vapor from increased CO₂ – meaning that just slightly more CO₂ produces more water vapor and, thus, more greenhouse effect
 - **The infamous “CO₂ tipping point”**
- Reanalysis of NCEP data (Paper by *Paltridge, Arking and Pook*) reveals that, over the long term, **the feedback is actually negative** (and may be practically negligible)
- **The IPCC models depend on an effect which is the exact opposite of reality!**

Reply by EPA Management to Scientists who authored the NCEE Report

- EPA management: "The administrator and the administration has decided to move forward [in support of the CO2 endangerment initiative]...and your comments do not help the legal or policy case for this decision."
- The House of Representatives passed HR 2454 by a vote of 219 - 212 on June 26, 2009.
- The Senate was tentatively scheduled to begin debate on the bill in the Spring of 2010 – but has never done so.
- In spite of stern advice from their own NCEE science staff to undertake extensive scientific findings which do not reply on IPCC reports, **the EPA has assumed - on its own - the authority to “regulate” man-made CO2 via the provisions of the existing Clean Air Act (CAA)!**

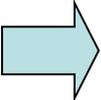
Key Findings Related to the “Man-made” Hypothesis

- Warming coincident with sunspot activity is seen on all of the planets and many of their moons
- There is no historical relationship with CO₂ and temperature. In the past CO₂ was 25 times higher than today. **If climate is unrelated to CO₂ over the past 525M years, how can it have become related now?**
- The carbon cycle piggybacks on the water cycle.
- Increased solar activity shields the Earth from **galactic cosmic rays** thus reducing cloud cover
- A diversity of data sets has shown an **unambiguous synchronous linkage** between sunspot activity & climate.
- High rainfall & flooding at the start of the first sunspot cycle (atmospheric & ocean turbulence); the second sunspot cycle is a drought event with sudden reversals between the two periods between drought and flooding. Consistent global evidence of the 1500 year solar cycle as well (e.g. the Medieval Warming period)
- If the popular catastrophic view is accepted, then **there should have been a runaway greenhouse effect** when CO₂ was more than 4000 ppmv (parts per million by volume)
- **Instead there were glaciations**

In Summary

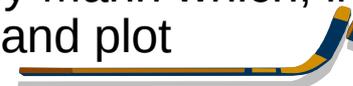
- The sun is the dominant source of heat for planet Earth.
- Earth surface temperatures are driven by energy balancing mechanisms featuring a combination of atmospheric heat conduction and radiation (into space), including reflection of heat from the sun due to cloud cover (water vapor condensation).
- Beyond the (lesser) variations due to solar Milankovitch phenomena (page 51), the variations in condensation, **due, in turn, to variations in cosmic particle flux, are the dominant drivers of climate.**
 - Cosmic particle penetration is greatest when the solar system is within the magnetic confines of one of the Milky Way's galactic arms or spurs, resulting in climate cycles which are predominantly glacial (dry and cold).
 - Climate cycles are predominantly tropical (warm and wet) during transit of the solar system between galactic arms and spurs.
- Mean global surface temperature, i.e. climate, is a consequence of the above and has no significant correlation with atmospheric CO₂
 - The totality of all atmospheric CO₂, both man-made and natural, has an insignificant effect on Earth surface temperatures. This is due to its relatively small contribution to heat transfer within the atmospheric energy exchange system (water vapor condensation, heat conduction, and radiation). Since the man-made fraction of atmospheric CO₂ is itself exceedingly small, **the man-made contribution to climate (Earth surface temperature) is, for all practical purposes, negligible.**
- **There is no atmospheric CO₂ greenhouse effect**
 - **Such a mechanism (as claimed by most proponents of the notion of man-made climate change) does not exist under the laws of physics.**
- **There is no CO₂ “tipping point”**
 - Not even large amounts of additional atmospheric CO₂, i.e. 4,000 ppmv (over 10 times greater than current levels) as is known from historical CO₂ records, have exhibited any effect on climate.

Topics

- Climate Fundamentals
- Climate History
- The “Man-made” Hypothesis
- Evidence & Computer Models
-  • IPCC, FunnyBiz, EPA, Congress & the Courts
- Green New Deal
U.S. House of Representatives
Resolution 109, February 7, 2019

Continuing with the Man-made Hypothesis Initiative...

- 1990 – The IPCC’s first of many voluminous reports followed by the draft *Summary for Policymakers* which in this and all subsequent reports would be:
 - Submitted to governments each of which can insist on changes **negotiated behind closed doors** with little input from the scientists who wrote the underlying volumes
 - Forming the basis for a negotiating process **between a few lead scientists and politicians**
 - With **no scientific peer review** solicited outside of the IPCC member staff prior to generation of the draft *summary*
- Of the claimed 2500 scientists who wrote the report, only 1190 *individuals* wrote the scientific part and many of these were **not scientists but political and environmental activists**
- 2001 - One of the persistent problems with the IPCC “science” was the pesky existence of the **temperature data from the Medieval warming period which exceeded that of post-industrial times**
- **This problem was cured by simply revising history!**
 - By employing data “produced” via a 1998 study by Mann which, in turn, produced the infamous “hockey stick” algorithm and plot



The “Stick” Hits the Fan

- Canadians McIntyre and McKittrick (M&M) analyze Mann’s data, finding significant errors and oversights in the report conclusion
- An article by M&M and the [failure of Mann and his co-authors to cooperate in fact-finding queries](#) by M&M motivate the *US House Energy and Commerce Committee* (ECC) to ask *pro forma* questions regarding federal funds used in the research behind the Mann report
- The political storm which followed included additional claims and counter claims from both sides – and, of course, [concern about offending the IPCC](#)
- ECC then appointed an eminent team of statisticians led by Dr. Ed Wegmen to investigate

The “Stick” and “Stern”

- The Wegmen team’s criticism (2006) of the Mann-et all report was far-reaching in citing **badly flawed statistical methodology and lack of interest in review and critique** by statisticians and professionals of other scientific disciplines in the development of the computer program which produced the “hockey stick” plot
- The criticism of M&M was even more to the point claiming that “The flawed computer program **can even pull out spurious hockey stick shapes from lists of random numbers**”
- The “Stern Report” suffers from similar problems in some ways even more damning to the report’s conclusions
- Based on the history of the “hockey stick”, Stern, and the means by which the *summary* reports are generated within the IPCC, **it’s difficult to trust any statement** on climate predictions issuing from the IPCC and those who profit from a relationship with the “man-made global warming” (now called “climate change”) conglomerate

“Climategate”

- 11/23/09 - Internal climate change proponents' network emails exposed to public - “Climate Research Unit” (CRU) of the University of East Anglica (UK)
- Content of CRU emails: Discussion of methods
 - for **hiding and/or altering data** which invalidates the “CO2 tipping point” assertion
 - for **avoiding legal inquiries** – via both the US congress and freedom of information laws in US and UK - for scientific data, memos, papers, etc.
 - to **discourage scientific journals from publishing** data / scientific papers from dissenters
 - to counter critiques from and **discredit scientists** who have exposed fraudulent methods of man-made climate change proponents
- Media Reaction
 - **Largely ignored** by NYT and other “MSM” in a substantive sense
 - Email “break-in” denounced
- IPCC chairman, Pauchari, laments the event and affirms the IPCC’s “impartiality, openness, objectivity, peer review standards and transparency”.

Some Legal Filings & Findings

- **Oct 2007** – Viscount Monckton serves as the scientific advisor for a successful UK court challenge to the movie "*An inconvenient truth*" citing 35 errors which distort or exaggerate in the direction of unjustified alarm – producing a statistical probability of 1 in 34 billion for the viability of Gore's claims.
 - The judge rules 19 major discrepancies all of which differ from the scientific data and the **movie is prohibited from being shown in UK public schools**
- **April 2009** - U.S. Chamber of Commerce files a 21-page petition with EPA, asking the agency to approve an on-the-record proceeding with an independent trier of fact who would allow EPA and environmental and business groups to engage in a "**credible weighing**" of the **scientific evidence** that global warming endangers human health (NYT 08/25/09)
- **Nov 2009** - The Competitive Enterprise Institute (CEI) files three Notices of Intent to File Suit against NASA for "**Climate Change Fraud**"
- **Feb 2012** - **Numerous lawsuits have been filed against the EPA** for fraud and nuisance by states, consumer groups, and industrial companies seeking rulings which, in essence, address the lack of proof and/or viability of the theory of anthropogenic global warming.

“Human Endangerment” & the Clean Air Act

- **Dec 2009** – EPA declares that CO₂ is a pollutant to be regulated under the Clean Air Act due to “human endangerment” and begins instituting rules and regulations on CO₂ emissions
- This is **in contradiction to the reply by the EPA NCEE scientists** to EPA management regarding the basis for such a finding and the recommendation to undertake an “independent study” of the ‘man-made’ hypothesis - given the faulted reliance of the EPA on IPCC findings
- **Feb 2011** – U.S. House Energy & Commerce Committee (ECC) Chairman Upton (R-OK) introduces a “Discussion Draft” to amend the Clean Air Act prohibiting the EPA from regulating greenhouse gases based on possible climate change, stating that **“The Clean Air Act was *not* written by Congress to address climate change”**
- **Jan 2011** - A companion bill the “Defending America’s Affordable Energy and Jobs Act (S. 228)” is introduced by Senator Barroso (R-Wyo) along with 10 co-sponsors

Federal Court Findings and Implications

- **2003** – EPA determines that it lacks the authority to regulate CO₂ as a GHG for climate change purposes under the Clean Air Act (CAA)
 - and declines also to set vehicle emissions standards
- **2005** – Upon suit by Several states, cities, and environmental groups DC Appeals Court upholds EPA determination
- **2006** – The Supreme Court grants certiorari and takes up the issue
- **2007** – The Supreme Court issues a 5 - 4 ruling in favor of the greens:
 - The majority comments that greenhouse gases fit the CAA's capacious definition of an air pollutant
 - The minority disagree
 - The EPA is remanded to review its contention regarding CO₂ regulation
- **2009** – The EPA issues its “Human Endangerment” report to the congress
 - In spite of **strong dissent and recommendations for an independent review of the scientific facts from its NCEE scientists (cited above)**
- **2010** – Alabama, Texas, Virginia and other parties seek judicial review of EPA's determination
- **June, 2012** – DC Appeals Court (3-judge panel) dismisses the challenges to EPA's Endangerment finding

Federal Court Findings and Implications (cont'd)

- In all of the findings for all of the hearings, the court shows **deliberate disinterest in the quality of the science** which might be required to justify the declaration of man-made atmospheric CO₂ as a pollutant to be regulated.
- Instead, the Supreme Court, in its narrow 5-4 decision, defers to the EPA as the agency which shall have the determining authority in such matters
- **No reference is made** anywhere in the court proceedings **to water vapor**, virtually all of which is produced naturally – none of significance by human activity - and which dominates the greenhouse effect: 95% of the total
- Neither is there any reference to Earth's climate history and to evidential & statistical findings that the major drivers of climate are the Sun and Galactic phenomena
- Only legislation by the U.S. Congress can halt action by the EPA, **on a fool's errand**, to attempt to exercise control over the Earth's climate by regulating CO₂ emissions

Topics

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U.S. House of Representatives
Resolution 109, February 7, 2019

The Green New Deal

- The Green New Deal is based on global temperature changes and atmospheric CO2 changes
- Yet,
 - Global surface temperature and atmospheric CO2 are uncorrelated
 - The CO2 rise is linear even though CO2 emissions from Chinese and Indian industry has risen dramatically (highly nonlinear)
 - [Natural CO2 absorption and release at the Earth's surface far exceeds human CO2 emissions](#) – as do emissions from volcanoes: Pinatubo's emissions were worth a year of current human emissions
 - Methane emissions from termites is 20 times more potent than human emissions
- While Gulf state nations are uninhibited legally with CO2 emissions, many western countries are forced (by legislation) to employ the most costly & unreliable means of electrical power generation available

Follow [this link](#) for full text of “Green New Deal”
U.S. House of Representatives Resolution 109, February