

Climate Change, The Solar Weather Technique & The future of Forecasting – WeatherAction Conference Imperial College London 28 Oct 2009 - Session 1 PANEL - Piers Corbyn IC1

The Refutation of CO₂ driven climate Change Theory

– Key facts & Information for conference Panel session 1 –

Further to presentations at International Climate Change Conference New York 10 March 2009 & Raven's Ait 'historic island occupation Easter Sunday 2009

- **Evidence based science !**
- **Beware of confusing Cause, Effect & 'Association'!**



Key Facts & Information slides available from Piers Corbyn for use in Session 1 Panel IC Oct 28th 2009 Some slides also used in other Presentations.

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Team includes Judith Humprey, Kirill Kuzanyan (IZMIRAN Russ Acad Sci) & Ulric Lyons

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All UN (IPCC) / Met Office projections for ongoing world temperature rises this century have failed.

Official data shows the world has been cooling SINCE 2002 (confirmed by both satellite and surface measurements) despite the ongoing rapid rise in CO2.

There is no evidence that shows using observed data for the last 100, 100,000 or 100 million yrs that CO2 changes have any effect on temperature or climate.

The evidence is rather that temperature in the long run controls CO2.

13 independent scientists including three Expert IPCC reviewers, professors and forecasters wrote to the UN July 2008 requesting such evidence and have been ignored.

See: Letter to UN Sec Gen 14 July 2008: http://www.tech-know.eu/uploads/Letter_UN_Sec_Gen_Ban_Ki-moon.pdf

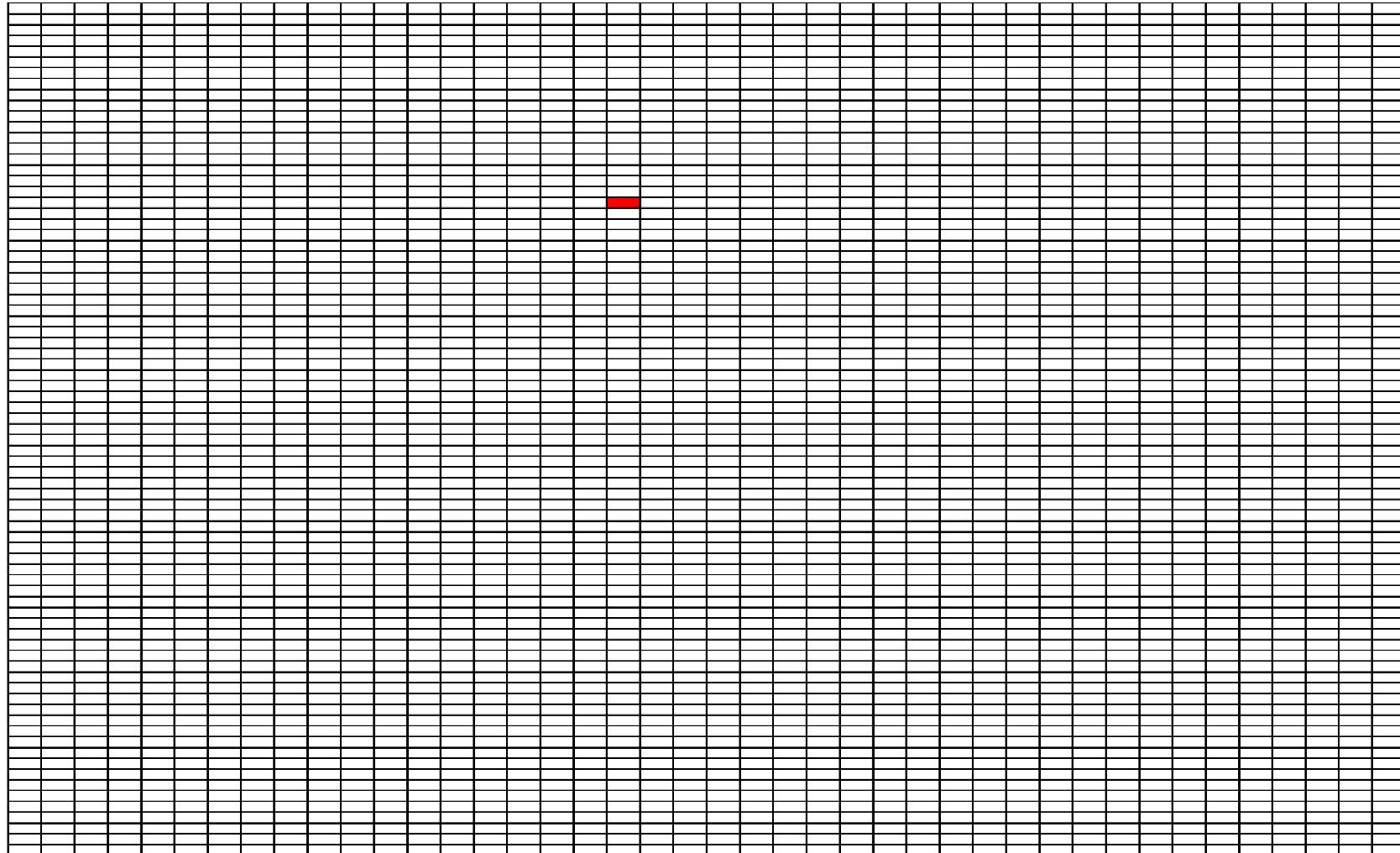
The IPCC of course boasts many peer-reviewed works and promotional articles on measures of CO2 levels and of various natural phenomena and failed(!) computer models but *nothing which supports their fundamental contention that CO2 changes drive warming & climate change.*

There is no evidence that ‘Climate Change’ changes in storminess, tornadoes, or rates of sea level rise or rates of change of glacier length or developments in polar regions etc relate to the onset of humanity’s industrialisation.

Source Robinson, Robison & Soon: http://www.heartland.org/policybot/results/22434/Environmental_Effects_of_Increased_Atmospheric_Carbon_Dioxide_updated.html

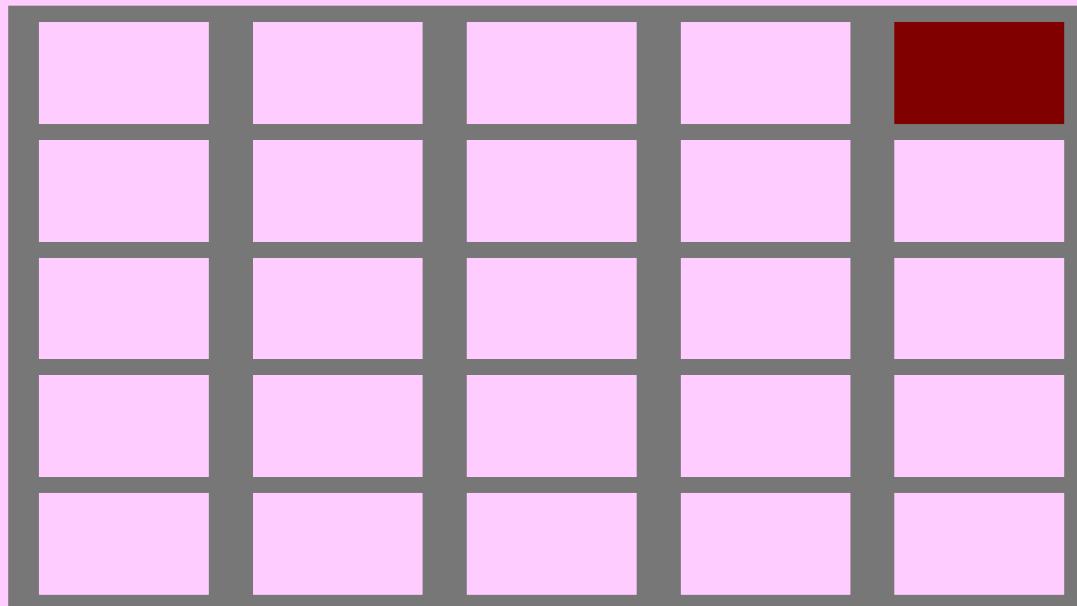
How much CO₂ is in air? – Only 1 part in 3300.

If each block below is one molecule of gas in air just **ONE is CO₂**



Q. Of this ONE part in 3300. How much of the CO₂ flow in and out of the atmosphere is due to mankind?

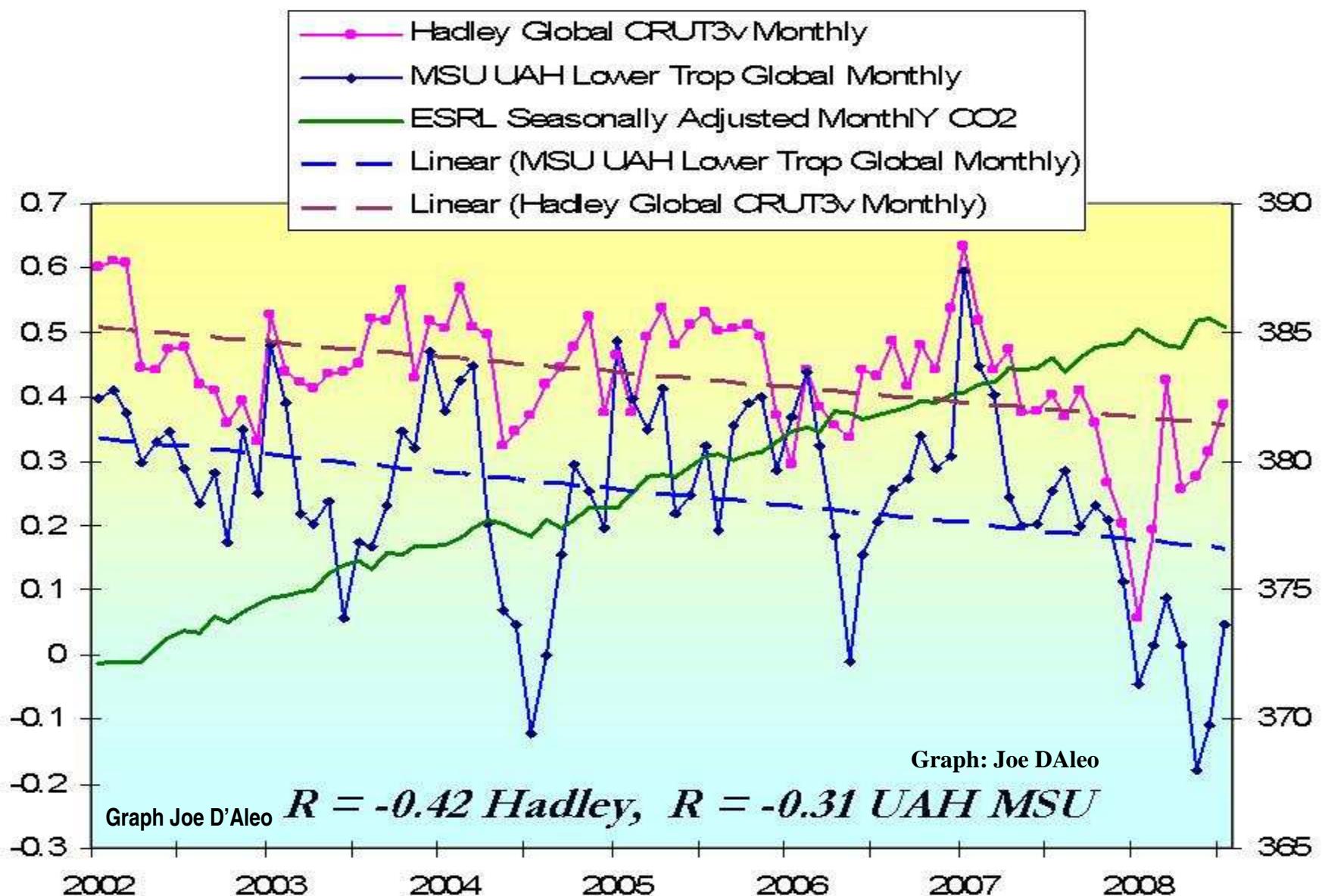
A. 4% (or LESS) = one part in 25 = the dark square



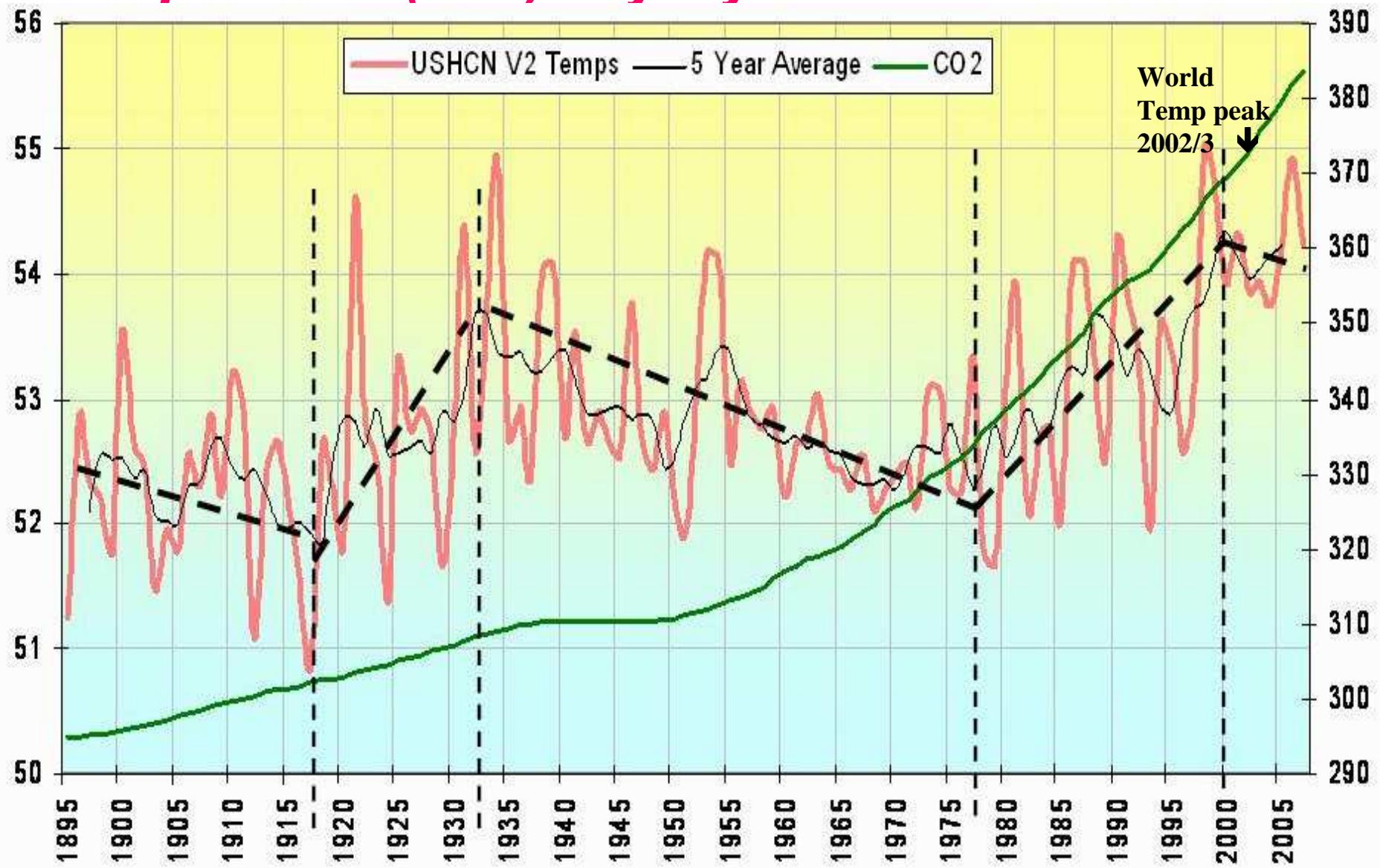
So mankind's CO₂ is about changes of 1/100,000 part of the atmosphere which is only 8 miles high

COMPARE Earth's magnetic field extends into space at least 40,000 miles. Standard meteorology relies on 8 miles of atmosphere. The Solar Weather Technique of weather & climate forecasting relies on the Earth's whole atmosphere, the solar wind between the sun & the earth and the sun 93 Million miles away.

World Temperatures keep falling while CO₂ is rising!



Temperatures (USA) 60 yr Cycle & CO2 1895 to 2008



- Official data - Graph by JD'Aleo Sept 2008 Circulated by Piers Corbyn www.weatheraction.com

Small rapid fluctuations of CO₂ (Av of Mauna Loa+ Hawaii + South Pole) FOLLOW world temperatures

From Prof Akasofu files. NOTE The seasonal fluctuations in Co₂ levels around world are large and regional.

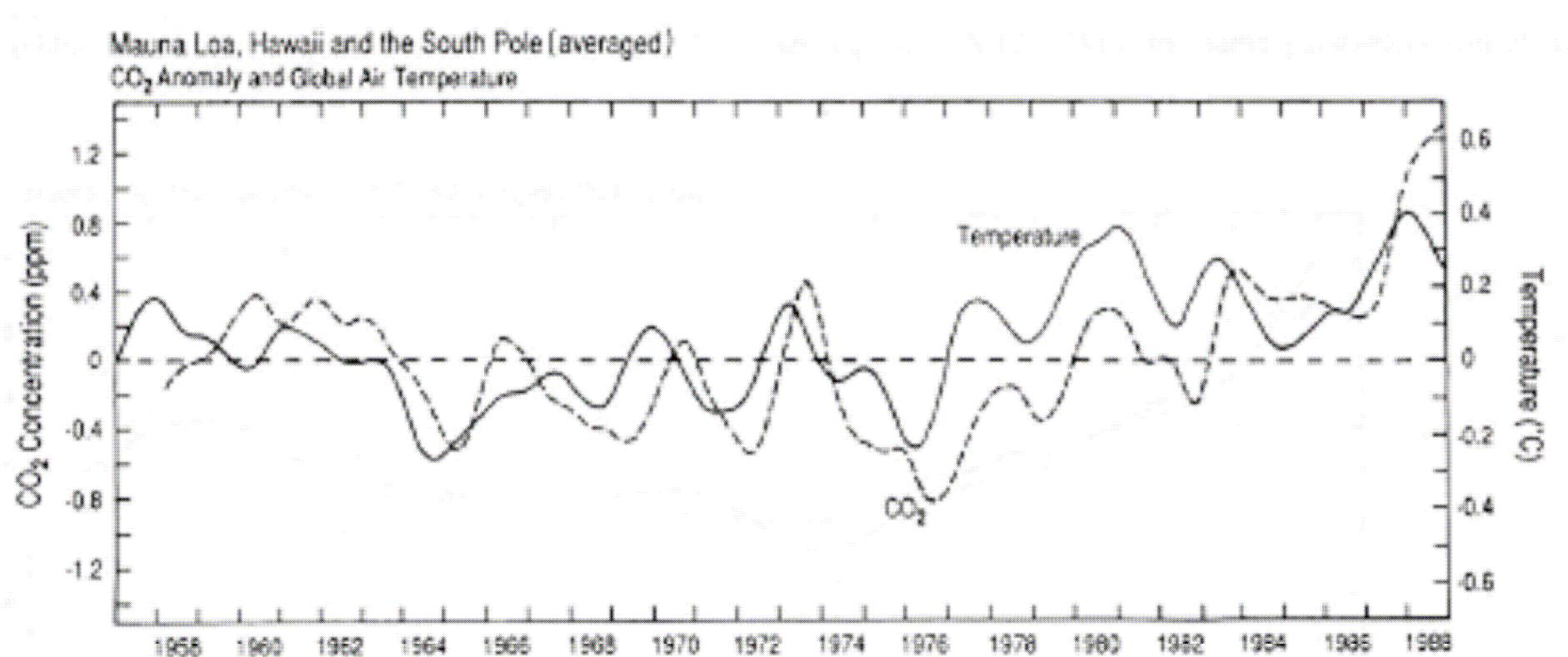
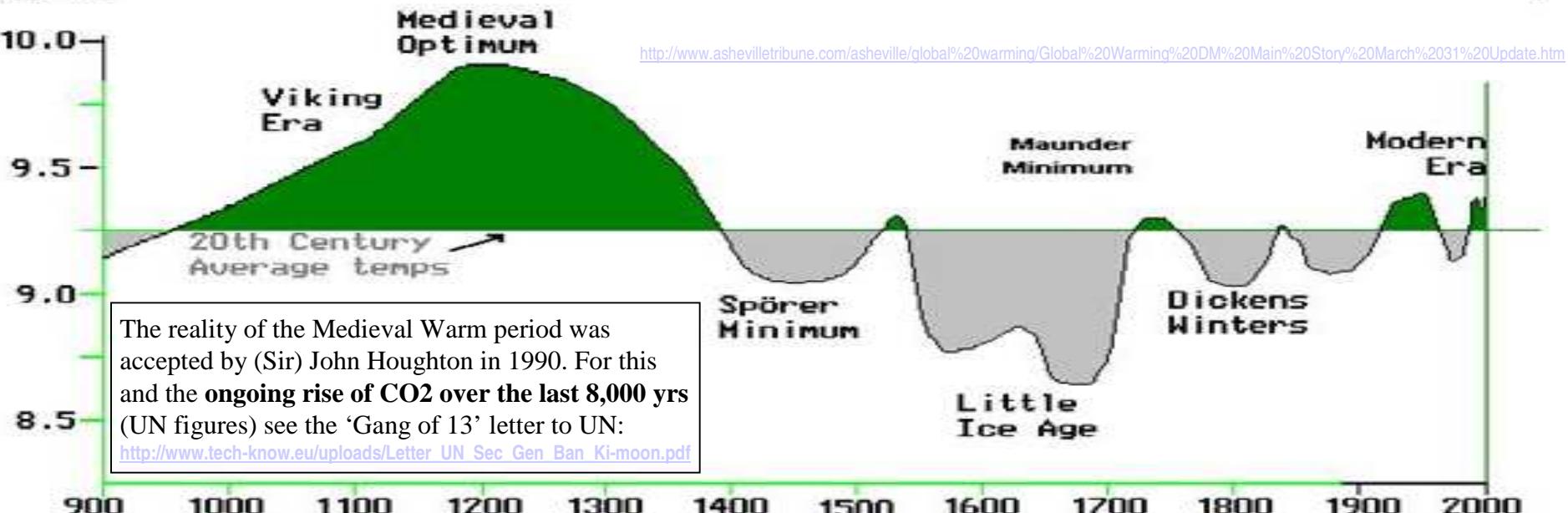
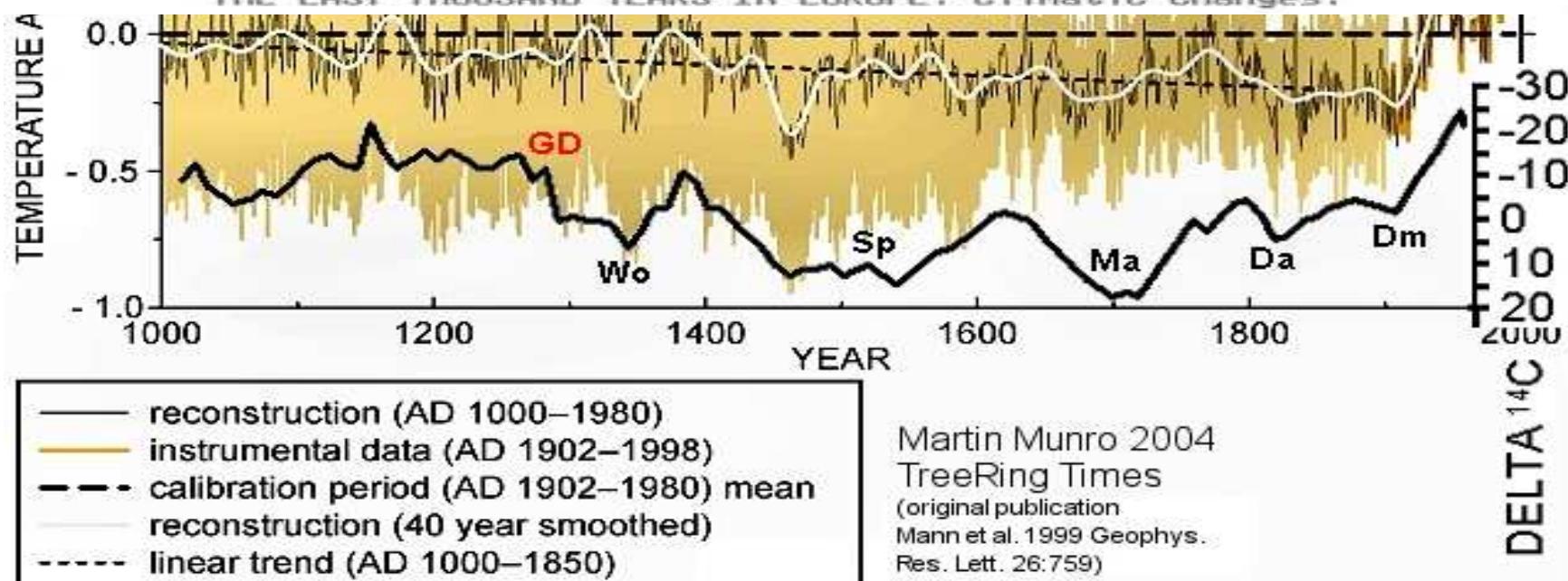


Fig. 63. Comparison of interannual variability in anomalies of surface air temperature (solid line) and atmospheric CO₂ (dashed line). The CO₂ curve is the same as that shown by a solid line in Figure 22. The temperature curve is the same as the smooth solid line in Figure 62.

Deg. C.



THE LAST THOUSAND YEARS IN EUROPE. Climatic changes.

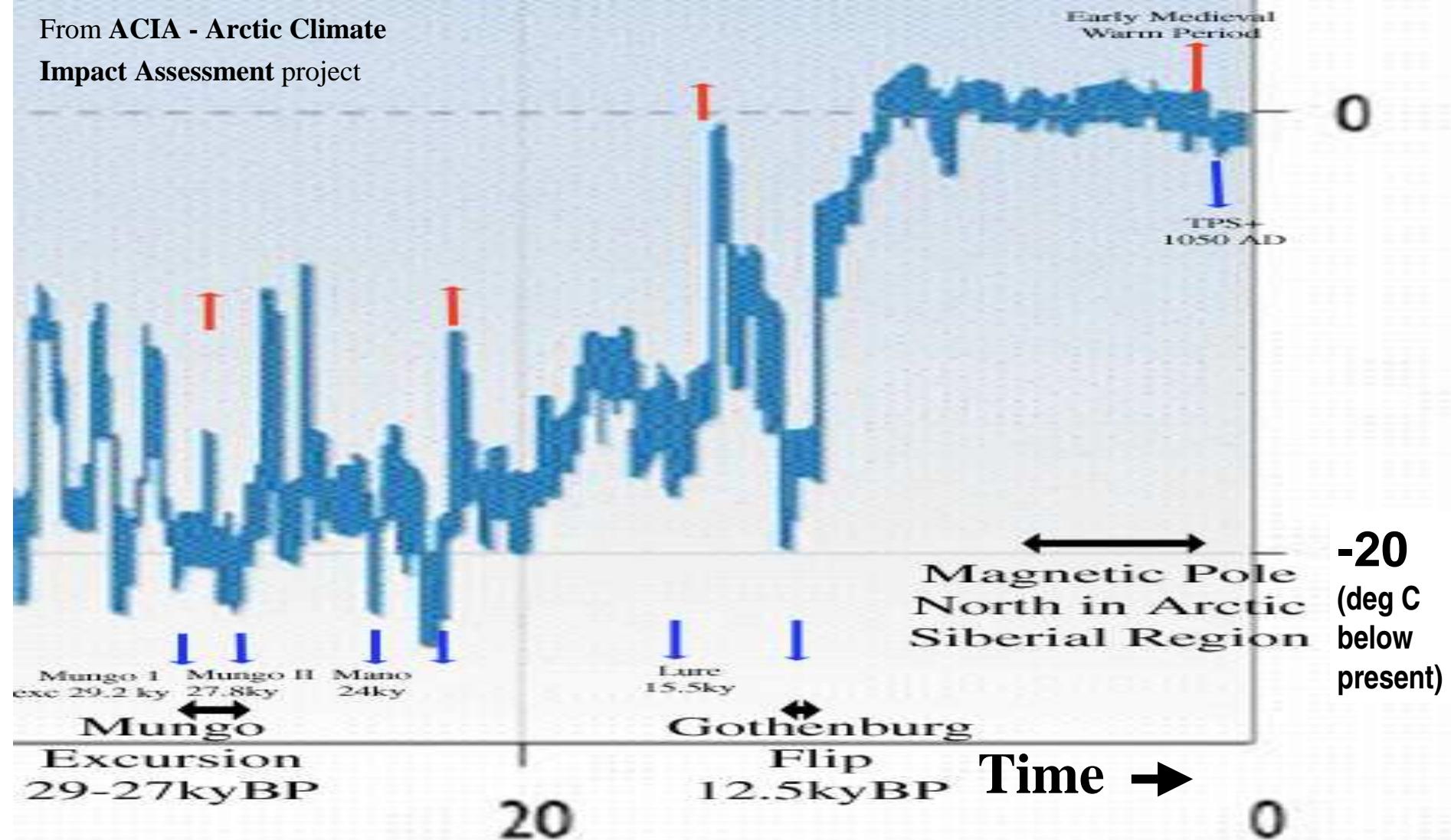


Climate Change: Arctic temperature over 30,000 yrs

Arctic (=> World) Temps deg C rel to present in the last 30,000yrs. Magnetic polar motion also marked.

The last 750 years have been COLDEST part of the last 10,000 years since the end of the last ice age.

From ACIA - Arctic Climate
Impact Assessment project





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



**At the end of
the last ice age
temperature
changes LEAD
CO₂ by 800yrs**

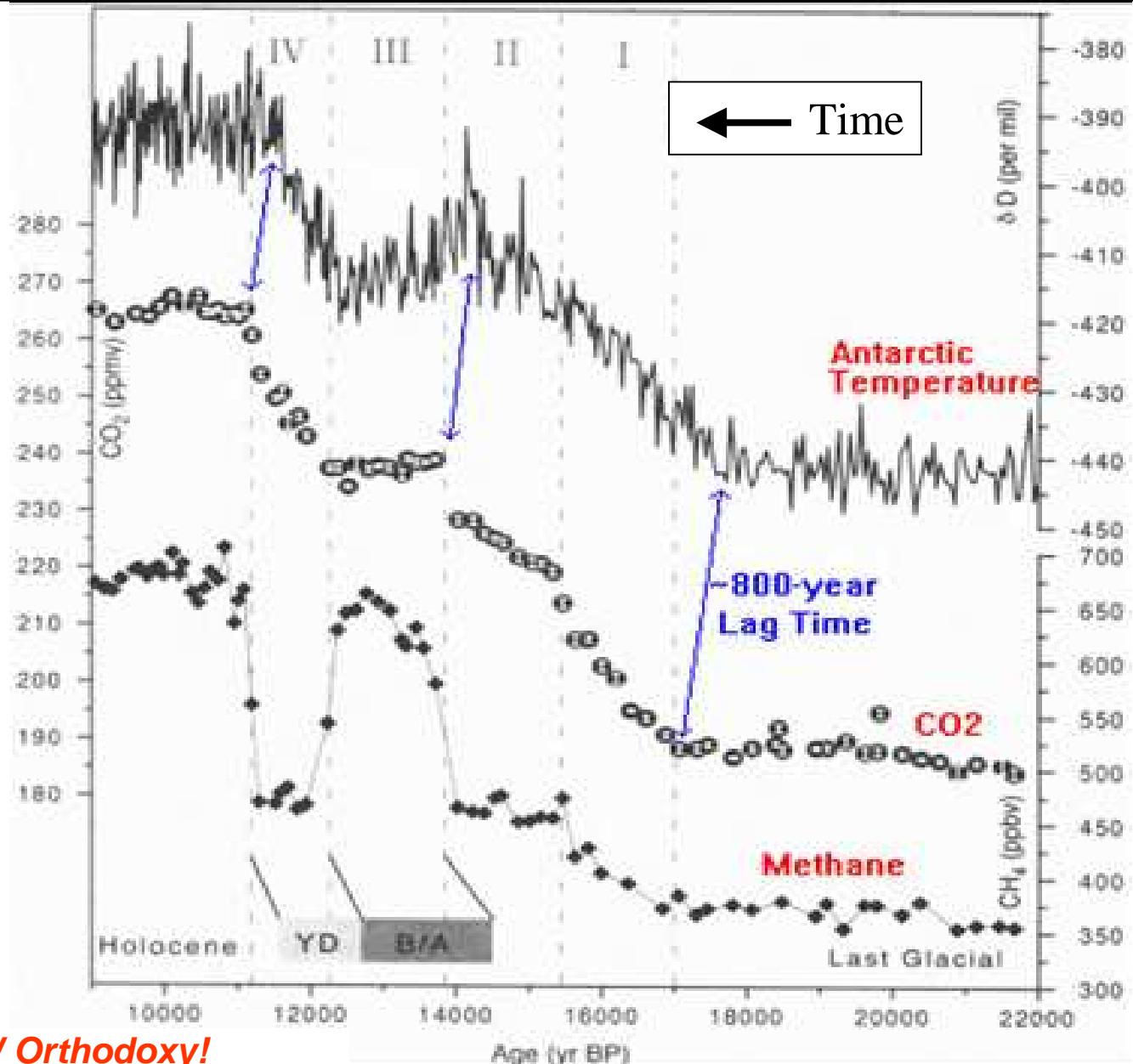
Similar leads are in Antarctic
Termination III 240kyr ago
(Caillon et al Science Mar 03)

**CO₂ diffuses
through ice**

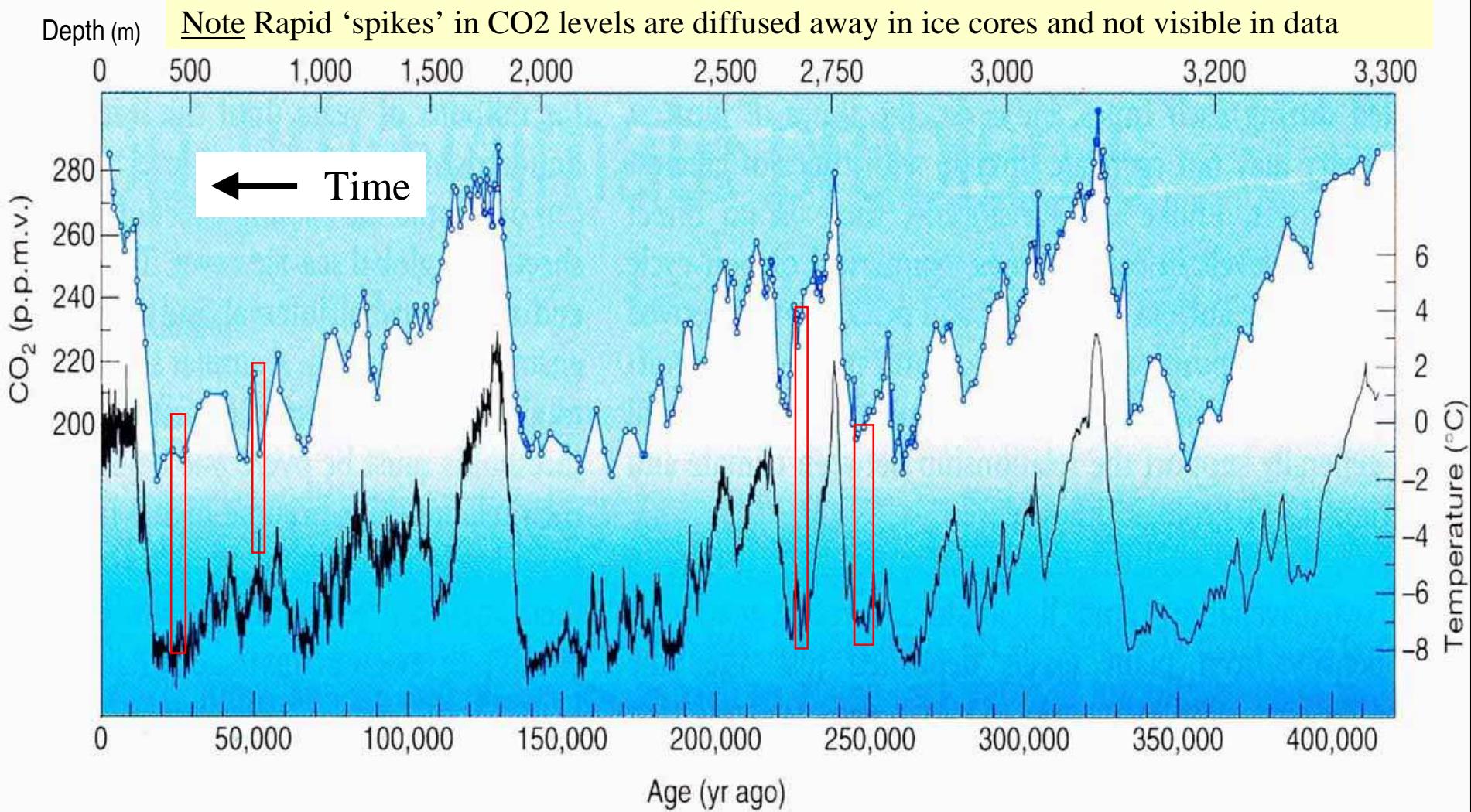
CO₂ data points are at best 200yrs apart
and show only small variations between
points. This is because CO₂ is a gas and
diffuses into centuries of ice layers. The
present CO₂ spike will amount to a mere
blip in 1,000yrs time.

**There is No
Evidence that the
present CO₂ rapid
rise is unique.**

Inconvenient Truths for GW Orthodoxy!

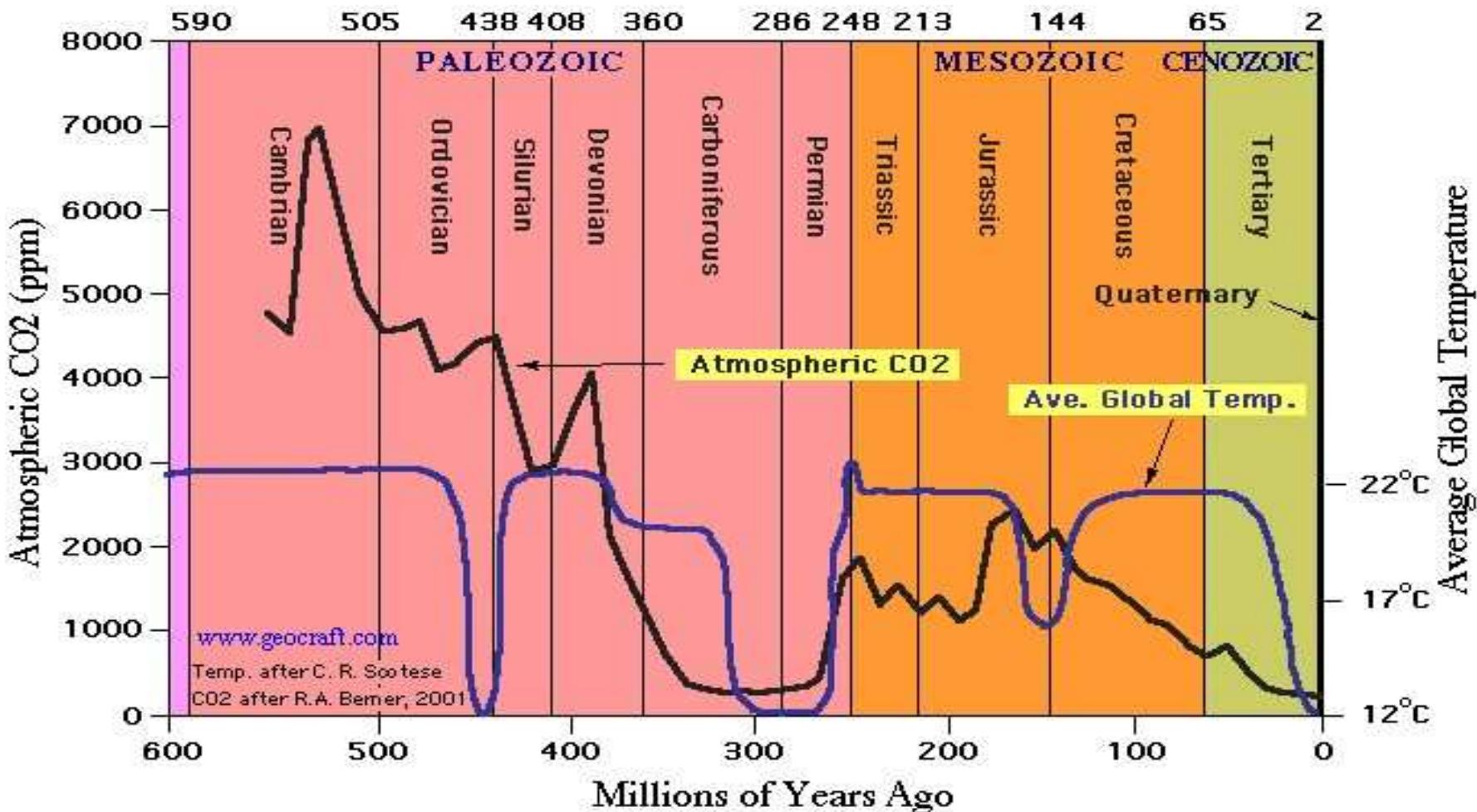


CO2 & temperatures moved close together through the last 4 ice ages.
Temperatures LEAD CO2 by 800 yrs. Al Gore doesn't tell you That Inconvenient Truth!



Close examination (eg see red boxes) of proxy Temp & CO2 data in ice cores show Temperatures lead CO2 changes.
 Changes across Antarctica termination III (Caillon et al Science March 2003) 240k yr ago show Temperature leads CO2 by on average 800+/-200yrs

Global Temperature and Atmospheric CO₂ over 600 Million yrs - No Evidence of CO₂ driving temperature



Late Carboniferous to Early Permian time (315 million years ago - 270 million years ago) is the only time period in the last 600 million years when both atmospheric CO₂ and temperatures were as low as they are today (Quaternary Period). At no point do temperature and CO₂ levels relate. Temperature after C.R. Scotese <http://www.scotese.com/climate.htm> CO₂ after R.A. Berner, 2001 (GEOCARB III)



Why GW is renamed Climate Change



The theory of 'Global warming' holds that Man's CO2 causes Global Warming and this causes other Climate Change and extremes.

CO2 → Global Warming → Climate Change

We have heard a lot about weather extremes & 'Climate Change'

Since 1998 CO2 has gone up *but World Temperatures have gone down.*

ALL subsequent years* have been colder than 1998

Or In terms of two year moving averages the peak was 2002/3

*From Official estimates of world temperatures: <http://www.cru.uea.ac.uk/cru/data/temperature/hadcrut3vgl.txt>

**So there are claimed extra effects – 'Climate Change'
- without temperature rise to cause them!**

AND has post Industrial revolution CO2 caused any change that wasn't going to happen anyway?

The Four kinds of Global Warming propaganda

The first two are in tatters so now we will hear more GW propaganda of 3rd & 4th kind.

GW1 = "CO2 causes Global Warming"

GW2 = "CO2 causes Climate Change/extremes"

- Jumping over the warming link which is proven as broken - Storms, Arctic, etc

GW3 = "CO2 direct effects" eg so called ocean acidification

GW4 = Twisted logic, pseudo-science & innuendo

of the type - "It's not a dog therefore its a cat" ("It's not solar brightness / Galactic Cosmic Rays therefore its CO2");

- The CO2 effect is being 'stored up'. This is like waiting for time to run backwards - since CO2 levels in the long run are driven by temp.

- "Al Gore gave up tobacco farming therefore Climate Realists are wrong"!

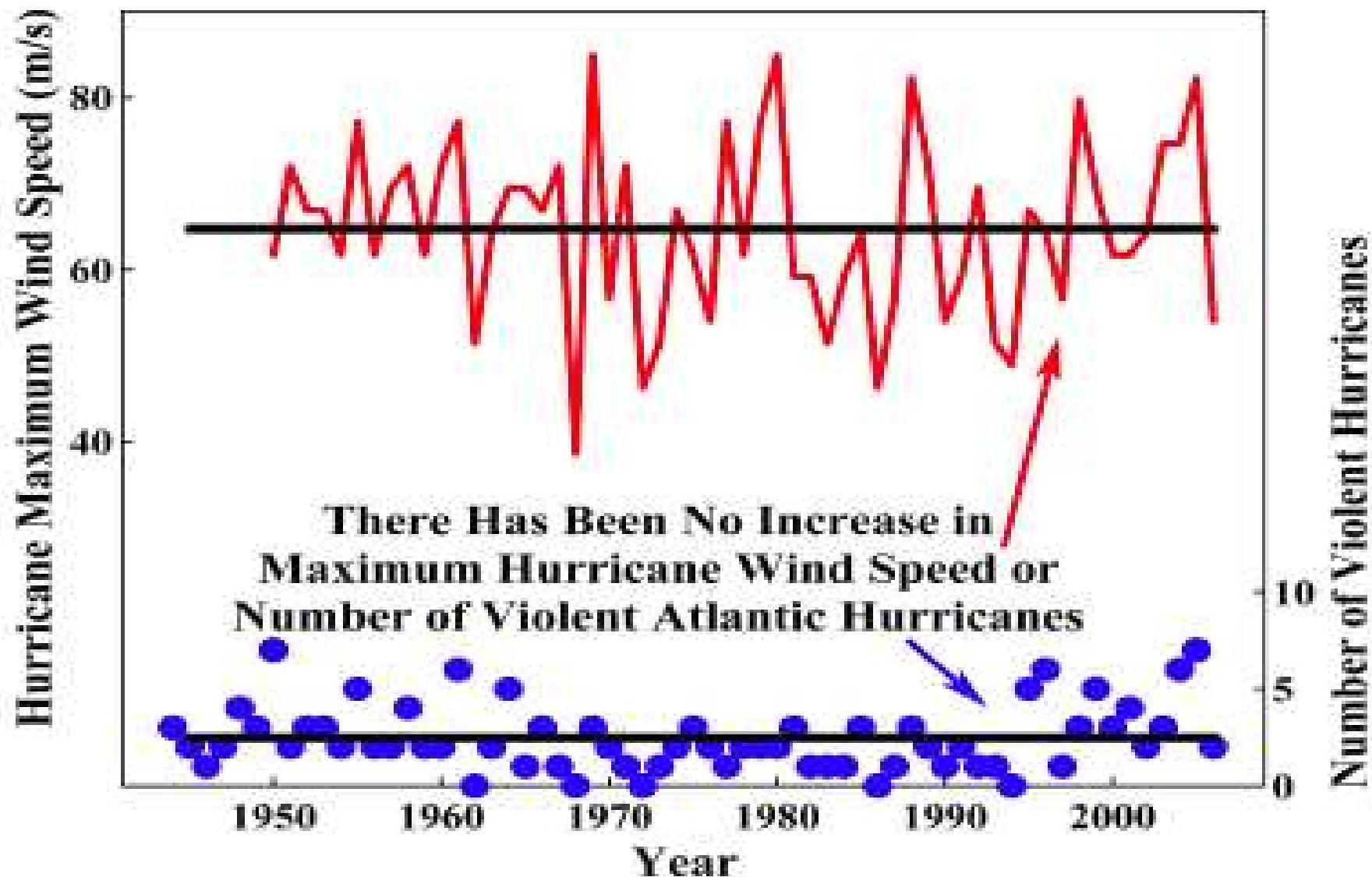


Figure 10: Annual number of violent hurricanes and maximum attained wind speed during those hurricanes in the Atlantic Ocean between 1944 and 2006 (22,23). There is no upward trend in either of these records. During this period, world hydrocarbon use increased 6-fold. Lines are mean values.

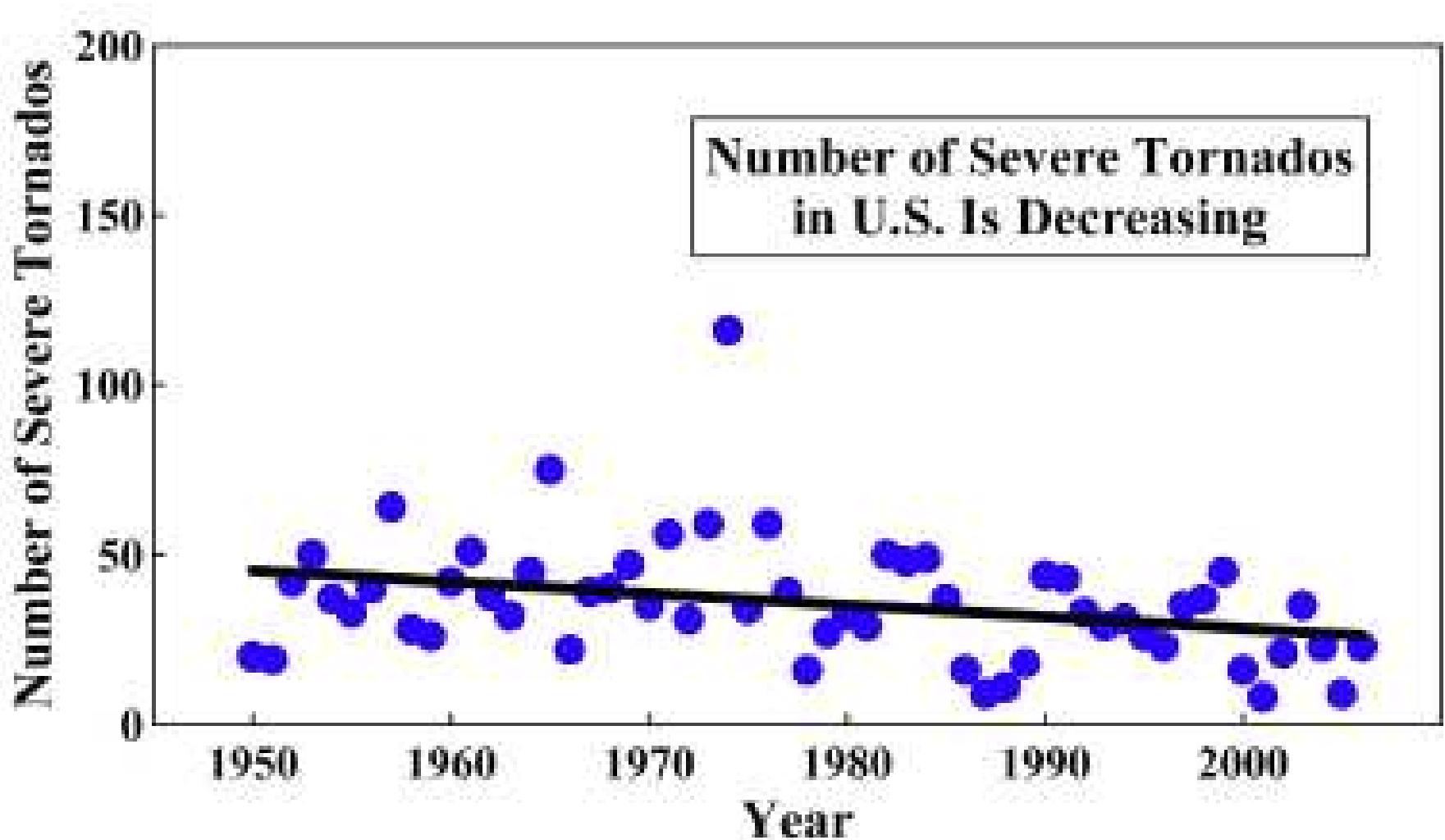


Figure 8: Annual number of strong-to-violent category F3 to F5 tornadoes during the March-to-August tornado season in the U.S. between 1950 and 2006. U.S. National Climatic Data Center, U.S. Department of Commerce 2006 Climate Review (20). During this period, world hydrocarbon use increased 6-fold, while violent tornado frequency decreased by 43%.

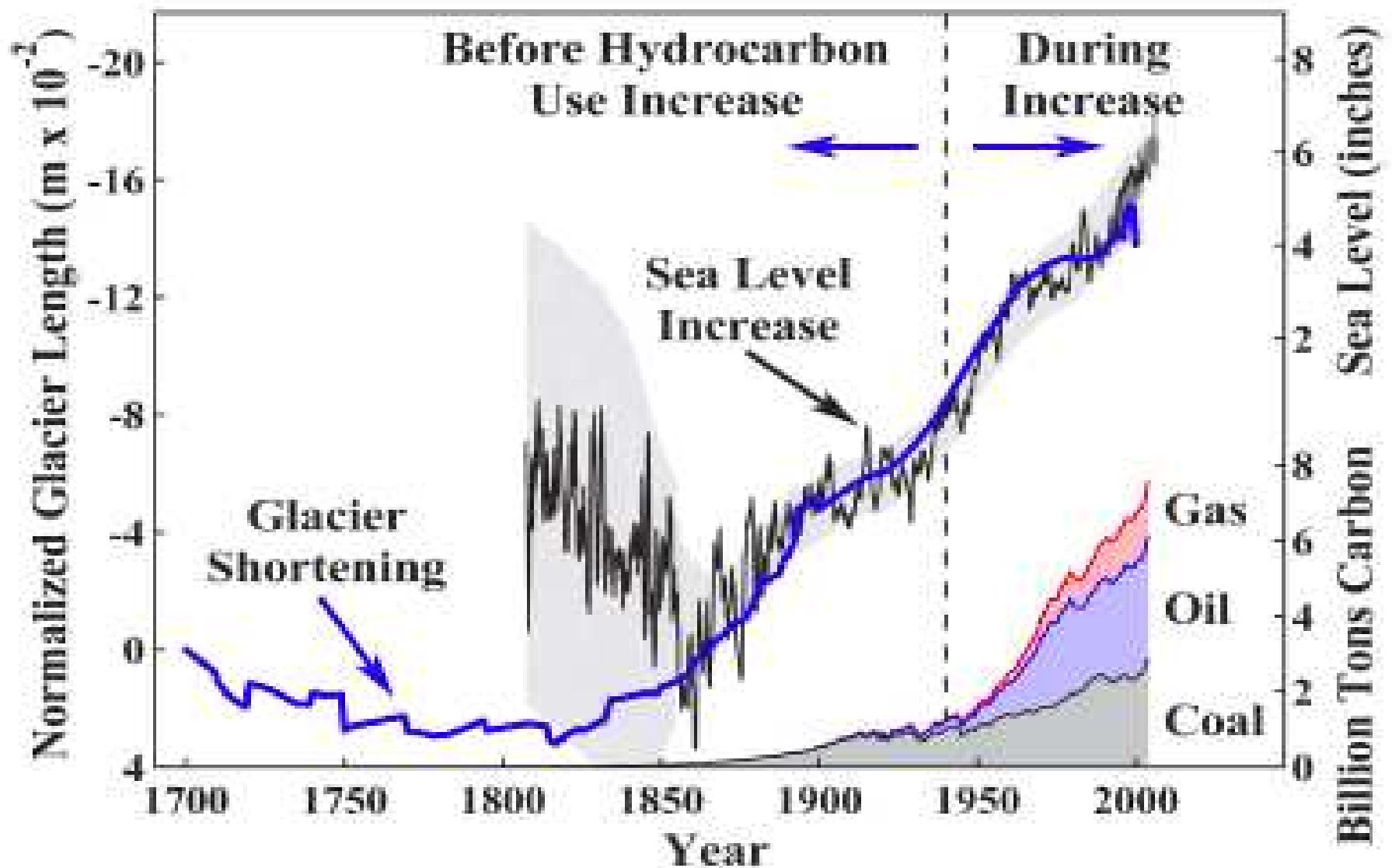


Figure 12: Glacier shortening (4) and sea level rise (24,25). Gray area designates estimated range of error in the sea level record. These measurements lag air temperature increases by about 20 years. So, the trends began more than a century before increases in hydrocarbon use.

Weather in 21st Century - Answers

The weather extremes of recent years are part of natural essentially predictable processes.....

The slow sea level (volume) rise - 6 inches per century - will continue even as world surface cools. It is just ocean volume expansion due to ongoing warming of the deep ocean (which is still cold) since the end of the last ice age 10,000 years ago.

{notwithstanding changes in ocean floor shape such as the appearance of trenches and sumps in the Pacific as the Indian sub-continent pushes up the Himalayas}

Arctic Ice & Polar Bears – More ‘GW2’

-The true story of pack-ice off Iceland according to HMSO Official Reports-

All changes in the Arctic & Antarctic follow natural highly variable patterns. They are not new or special and have been recorded for over a thousand years and have been very well known to the British navy for a long time and available in the Met Office library**.

The Antarctic has been cooling for decades & the Arctic has started to cool in the last year or two. Ice break-up of is a natural process and has been happening for millions of years - before media noticed.

(**HMSO 1963 Weather In the Home Fleet waters Vol 1 Northern Seas part 1 table XV page 246 shows the very high variability of ice off Iceland (eg) since 1900 and the long periods of change of two decades or more. Figures 124 & 125 (page 256) show that historical records indicate there was no pack ice off Iceland for about 180 years from 1020AD to 1200AD yet there was plenty of pack ice through the rapid expansion of industry since 1900 (Fig 126 page 257).

Weeks per year

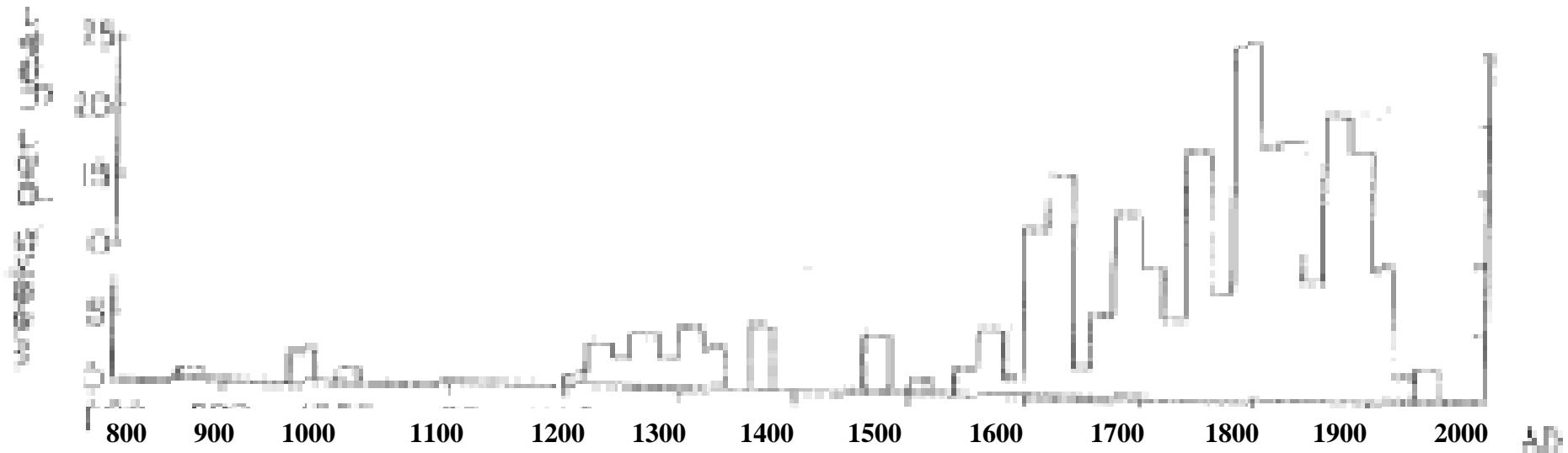
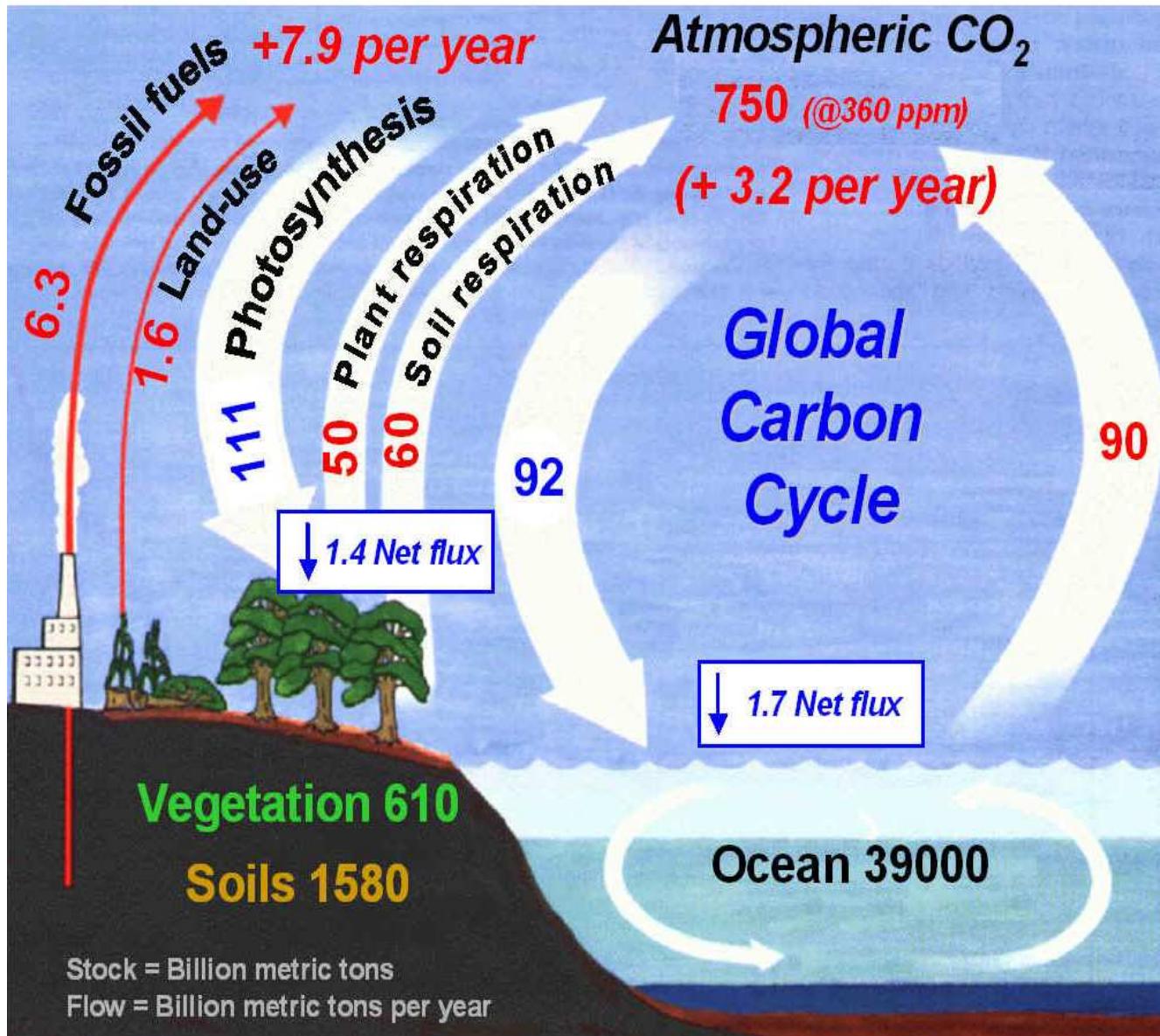


Figure 125. Twenty-year averages of polar ice at the coast of Iceland (after Koch⁷³)

Dashed outlines indicate incomplete data for the 20 yr period, incidence shown being the lowest possible result for the period.

Ocean Acidification – a case of ‘GW3’!

- Hysterical nonsense & a research grant scam
- Man might be polluting the seas in many ways but CO₂ isn't one of them



Facts

Sea life did not die out in Jurassic times when CO₂ was 5x present or in Devonian times & before when it was 10x present. In fact it boomed!

Official figures show at current rates would take 23,000 years for Ocean CO₂ to double even ignoring all the myriad of buffering effects.

The Global Warmers' last gasps

Claim	Refutation
“CO2 levels have never risen so fast or been so high”	<p>(i) Anything X zero effect = zero</p> <p>(ii) No evidence for this. There are no CO2 spikes in the past ice cores because CO2 is a gas and diffuses through centuries of ice. This current CO2 spike will be invisible in 1k yrs time.</p>
“ONLY CO2 can explain the temp rises”	<p><i>Really - like present world cooling!!??</i></p> <p>They have dropped this one!</p> <p>The graphs making this claim were smudge and fudge. Geomagnetic activity smoothed over 22yrs (solar magnetic period) fits temperature much better.</p>
CO2 effect is being ‘stored up’ & delayed.	<p>The EVIDENCE is that CO2 changes are generally driven by temperature. <i>This assertion is equivalent to ‘time will run backwards’.</i></p>



Key Science Summary: CO2 'greenhouse warming' is non-existent or is negated by feedback processes



The theory that Carbon Dioxide, from Man or nature, is the cause of global warming is refuted by the facts. Science has advanced beyond that theory.

1. If Carbon Dioxide (CO2) drives world temperatures then past data would show it. But it does not.

Data going back decades, centuries and thousands of years shows that CO2 is not in charge. The graphs make it clear! The supporters of the theory of CO2 enhanced Greenhouse effect driven global warming must answer this fact or their theory must be abandoned.

The conclusion is that EITHER the greenhouse theory is fundamentally flawed (a view held by some) OR that its effects are TOTALLY negated by feedback processes

2. World temperatures & particles from the Sun move together very closely - over recent decades, past centuries, thousands and millions of years.

This proves the Sun, not CO2, is in charge. Does the Sun cause the weather or does the weather cause the Sun to change?

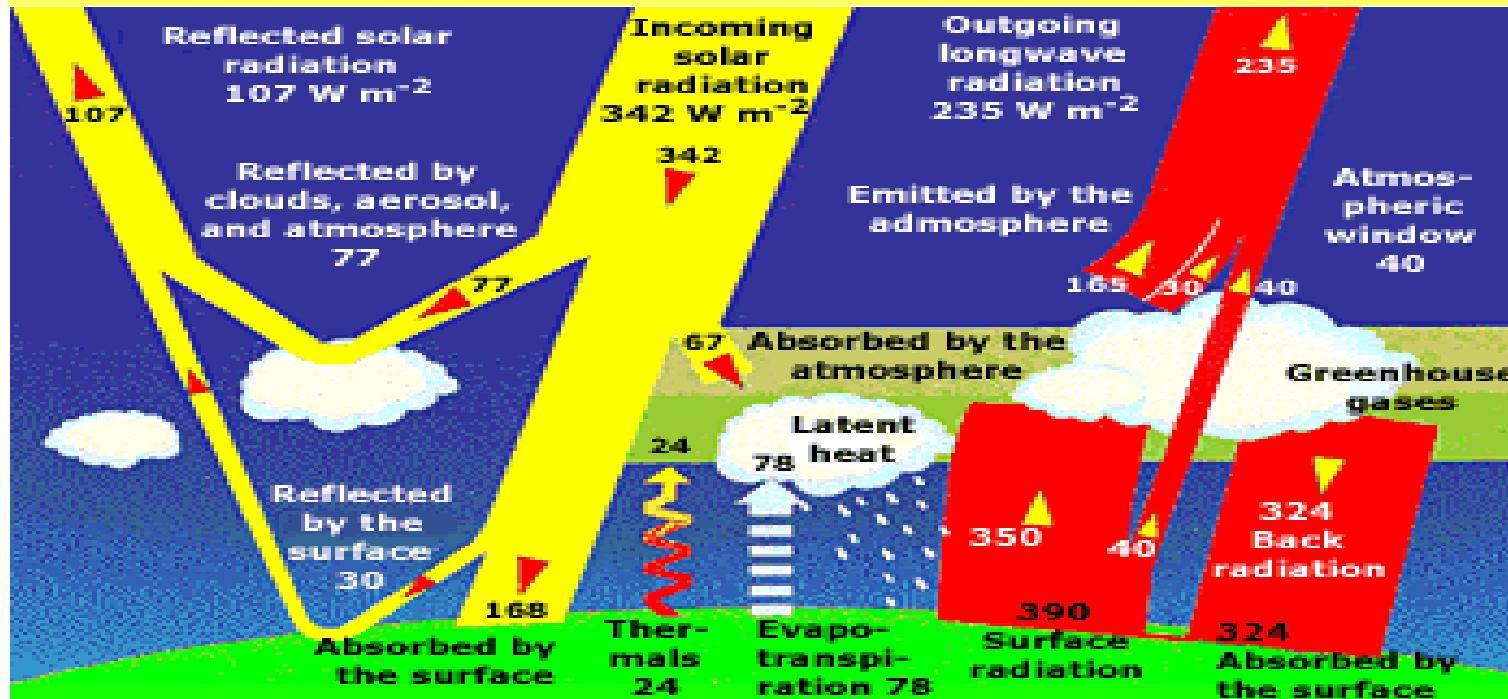
Various theoretical graphs have been drawn and presented to the public, using many assumptions, which combine CO2 (heating effect) with careful amounts of cooling effects involving smoke and dust from volcanoes cars and industry etc to construct a curve which more-or-less moves with world temperatures. If those theoretical graphs show that a special mix of CO2 and smoke drives the weather you also must explain HOW is it that the Sun sends out particles to follow Earth Temperature!.

3. IF CO2 is a greenhouse gas in any sense why doesn't more of it make the world warmer? The answer is feedback processes – eg transpiration-cooling by plants. Science has moved past the GW one-way-effect--CO2-theory.

The (close) equality of enhanced greenhouse heating & plant transpiration cooling is not coincidence. If there are not enough plants to do this cooling then the world gets warmer. But photosynthesis then increases and plants grow more when it is warmer (tropical forests are the best) and so the amount of plants increases, and their cooling effect increases - so temperatures cannot go up any more. Put simply: -

Plants increase their photosynthesis activity and its cooling effect until that equals extra CO2 greenhouse heating.

Extra plant transpiration-Cooling negates all extra CO₂ heating



10% or so of total evapo-transpiration heat removal (cooling) is transpiration from land plants. 11% of 78W/m² = **8.6 W/m²**

Doubling CO₂ increases CO₂ Greenhouse **heating** of Earth's surface by **3.8 W/m²**. It also increases plant growth & therefore transpiration **heat removal (cooling)** by 43% to 45%. Now, 44% of 8.6 = **3.8 W/m²**

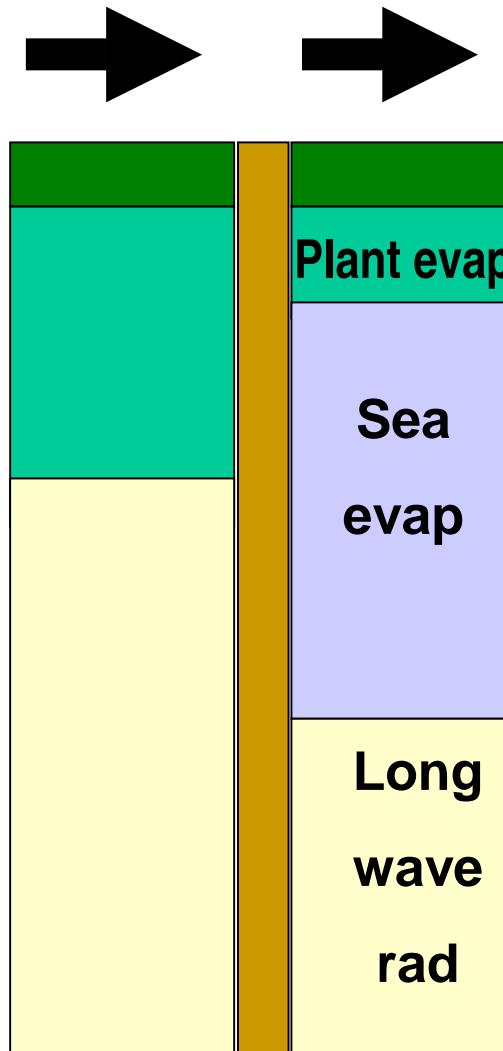
3.8 – 3.8 = 0 So CO₂ increase has no net effect on world temperatures.

Heat flow in & out of Earth's surface

- Assuming effect of CO₂ doubling reliable although that is questioned -

Extra Radiation (or equivalent due to atmospheric changes) to surface **INFLOW =>
To surface from GHE if CO₂ doubled = **3.8W/m²****

GHE = Greenhouse effect = H₂O (largest GHE) + CO₂ etc



Extra Photosynthesis transpiration
<= heat OUTFLOW if CO₂ doubled
approx = 3.8W/m²

- taken up and away from surface

IF there are not enough plants to do the cooling the world gets warmer, Spring gets earlier and plants grow more and have a greater cooling effect.
This feedback ensures that the two effects balance over time.

The Global Warming Lobby

1. Governments - taxation and energy 'security'

2. The Climate Crisis industry

– Carbon traders - advisors – 'wind farmers' – biofuel makers – 'GW Scientists' – environmental columnists – 'science correspondents'...

3. Oil Companies – BP policy:

<http://www.bp.com/productlanding.do?categoryId=6900&contentId=7028276>

... We support **urgent action** to stabilize greenhouse gas concentrations.... **governments and businesses** must work together to create policy 'spaces' defined by appropriate policy and regulation ... activity **driven by market mechanisms** policy and regulatory interventions must support the **development and implementation of appropriate technological solutions** and also enable the **amendment of market mechanisms**...

4. Green Zealots and Goons – self appointed bishops and commissars of the new godless 'Green' religion – any operation or business which can make money by getting you to pay to 'save the planet' or 'feel green'.



What to do? – 3 point plan



1. Enjoy life! Enjoy the planet! Don't feel guilty about 'carbon footprints'.

CO2 is the Gas Of Life (GOL)! More GOL increases the bounteousness of plant & animal life.

Stop real smoke and chemical pollution – GOL (CO2) IS NOT A POLLUTANT.

2. Recognise Man cannot change Climate Change! The Problem is Climate Change POLICY.

'Climate Science' lacks integrity. Science is not driving policy. It's the other way round! Climate Change 'science' is driven by those who benefit from Climate Change Policy. Act on the [Charter for Climate Truth](#):

Prove and predict. Basic standards of science should be applied in Climate science and any theory of Climate Change must be tested against available recorded data and testable specific predictions made.

Naming & Shaming. Scientists or journalists who make baseless claims or false statements on Climate and weather should be 'named and shamed'.

3. Get rid of 'Green Spivs' - Call politicians to account.

'Justify it or drop it'. If they cannot justify a claim they must drop the policy.

Write to them – challenge them in meetings.....

Support Honest green policies for biodiversity & defending nature.

Scrap Climate Change / anti GOL ('Green') taxes and policies.

End their world burden - of high energy prices and food price rises and starvation caused by biofuels.

Support the world economy not the green scam – which is the of new bubble of FALSE VALUE.

The climate hype industry are a burden on the world economy & make billions from carbon trading, windfarms & other green scams, nuclear power, & holding back world development.

Environment solutions starting in 2009 - the year of Accountability & Rebirth of integrity in politics & science!

- **Put Science before ideology & politics.**
- **Stop the plunderers & creators of false value destroy the environment when their ‘theory’ is given up.**
- **Honest Green principles: Defend Nature, rainforests etc for THEIR OWN VALUE.**
- **WEXFAD Weather EXtremes (& any Natural extreme) Forecasting And Defence.**
- **A New ‘(non) Religion’ of Democracy Integrity & Accountability in Politics & Science.**