Loughton Astronomical Soc 20 May + West Sussex Farmers 10 June 2010

What Does & Doesn't cause Climate Change? & Forecast highlights for coming months

Refutation of CO2 driven climate Change hypothesis
 Why CO2 theory fails (slides 16-22)

What Does CAUSE Climate Change • Implications for your operations
 Movie solar effects in action! • Long Range Solar-based forecasts

Presentation slides 1-33. Slides 34-45 are background info / discussion

Further to Climate Change, The Solar Weather Technique & The future of Forecasting – WeatherAction Conference Imperial College London 28 Oct 2009

Evidence based science

• Beware of confusing Cause, Effect & 'Association'!



Vital information for Your business

Piers Corbyn MD www.weatheraction.com, Climate Realist

Team includes Judith Humprey, Kirill Kuzanyan (IZMIRAN Russ Acad Sci) & Ulric Lyons Piers Corbyn is the originator of the **Solar Weather Technique** of Long Range Forecasting and founder of WeatherAction 177 Borough High St, London SE1 1HRTel: +44 (0)20 7939 9946; +447958713320

How much CO2 is there in the atmosphere?

Compare the atmosphere with Big Ben – 316 ft high



The CO2 in the atmosphere is equivalent to

1¹/₄ inches on the top.

Man's contribution is just over One mm within that.

Key Messages

- The CO2 driver theory of climate change fails – REFUTED by Observations and Physics
- Solar Activity Rules See Web movie
 from Coronal Holes & Solar flares to extreme weather events
- Proven success of Solar Weather Technique – Brit+Ire - Scandinavia - Europe – USA – World - FORECASTS for YOU
- Policy implications
- A New dawn for evidence-based science & policy
- Prepare for game-change!

How do we know it's NOT CO2?

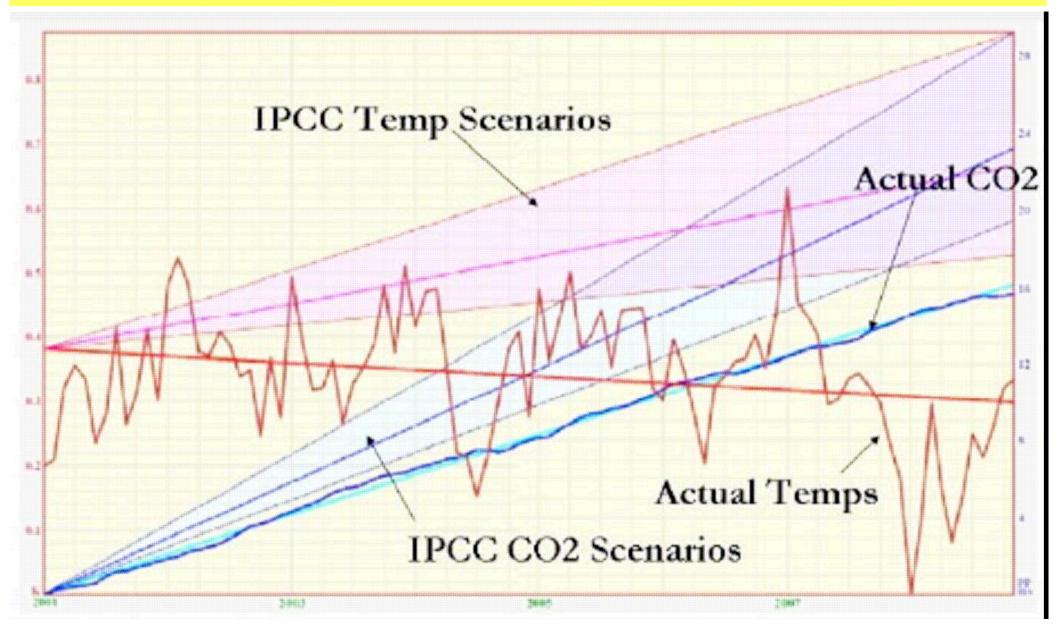
• It's NOT because of the meddling with data, fraud, tricks, fictional claims and suppression of evidence and arguments which oppose the CO2 theory.

 It's because the CO2 theory FAILS in ALL it's predictions and expected past correlations.

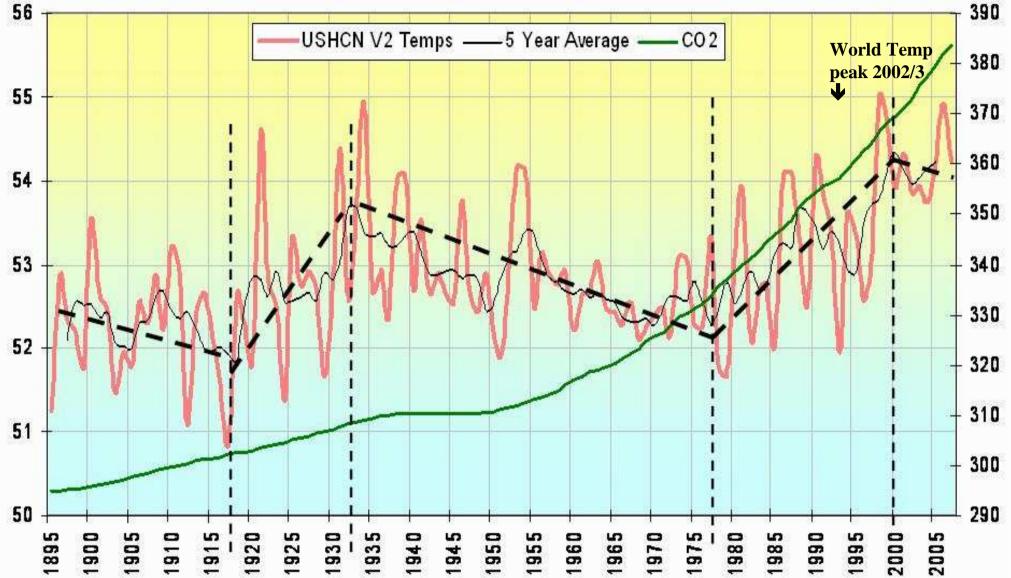
World Temperatures keep falling while CO2 is rising!

CRU 'data' CO2 MOULAN Lawer Trop Cliphel Markhey ESPL Seasonally Adjusted Morthly CC2 Satellite data Linear system Linear Timp Geoter Monthly investor (Hardley Choked CPU/Por Monthly) 2010 **G** (0) 0.01 CL48 0.3 0.05 6.6 CO. -0.1 41.12 R = -0.42 Hadley, R = -0.31 UAH MSU

The UN (IPCC) Forecasts have comprehensively failed

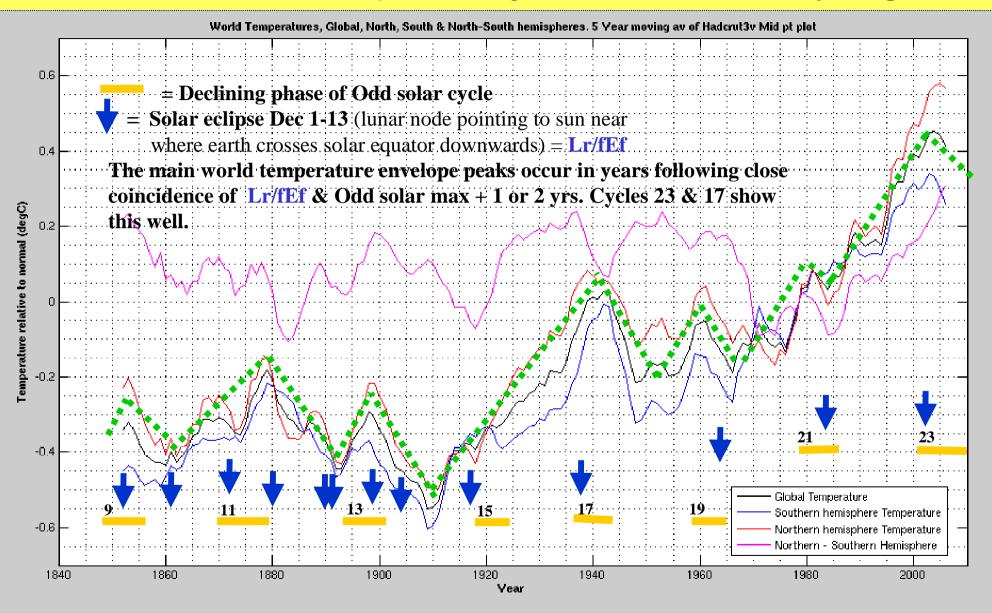


Temperatures (USA) 60 yr Cycle & CO2 1895 to 2008



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

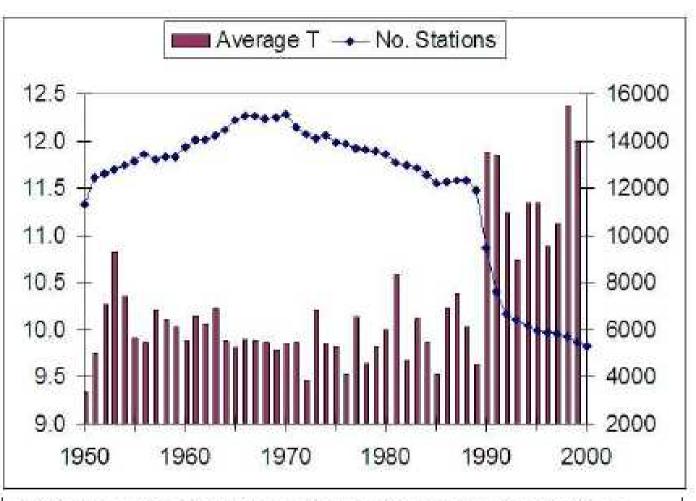
SLAM – Solar Lunar Amplitude Magnetic – Process – 60yr signal



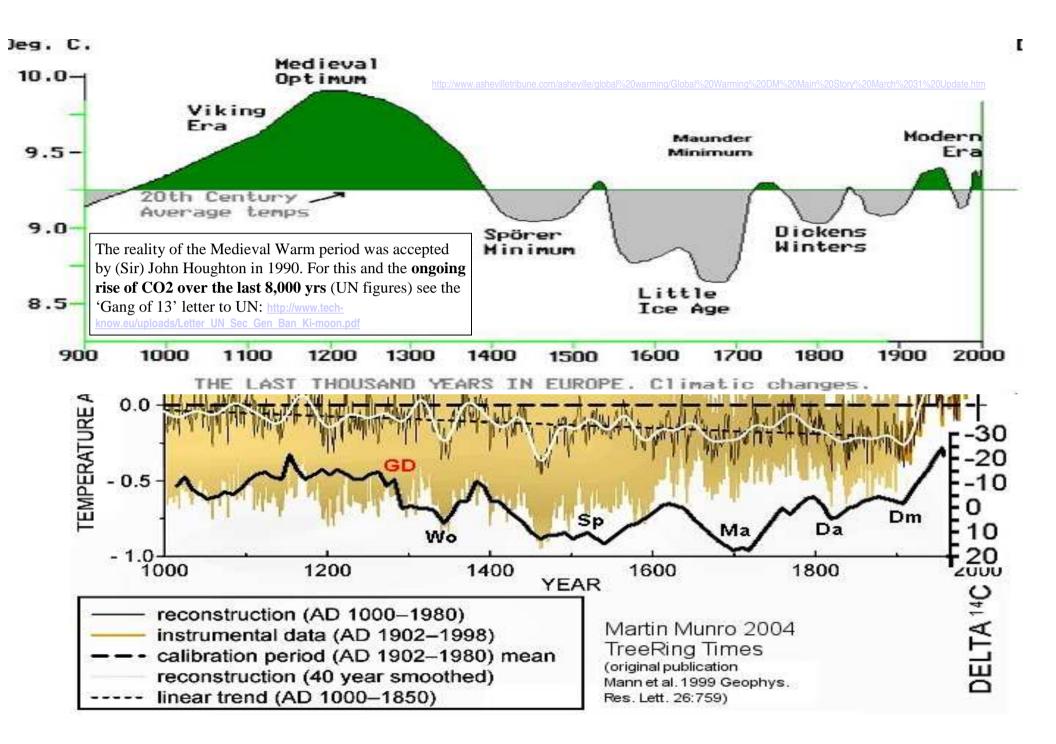
- Official data - Graph (Temp data) by JH/PC March 2009 for Piers Corbyn www.weatheraction.com

Fraud

Data



Data fraud in operation. The selective removal of data stations, which didn't help the Global Warmers' theory, made the remaining average World temperature shoot up from 1990. See http://www.uoguelph.ca/~rmckitri/research/nvst.html, which is from Joe D'Aleo and Anthony Watts' superb world analysis of data collection and systematic manipulation: http://climaterealists.com/?id=4979 Will the second Cover-up Committee headed by global warming advocate Lord Oxburgh consider this?



WEATHERACTION

GW is renamed Climate Change

The theory of 'Global warming' holds that Man's CO2 causes Global Warming and <u>this</u> 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?

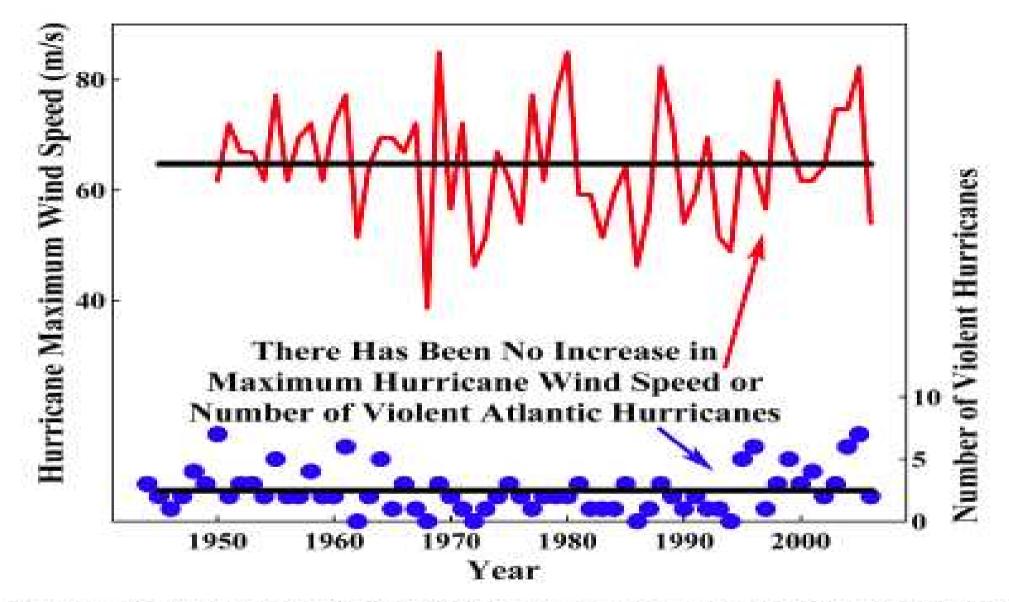


Figure 10: Annual number of violent hurricanes and maximum attained wind speed during those hurricanes in the Atlantic Ocean between 1944 and 2006 (22,23). There is no upward trend in either of these records. During this period, world hydrocarbon use increased 6-fold. Lines are mean values.

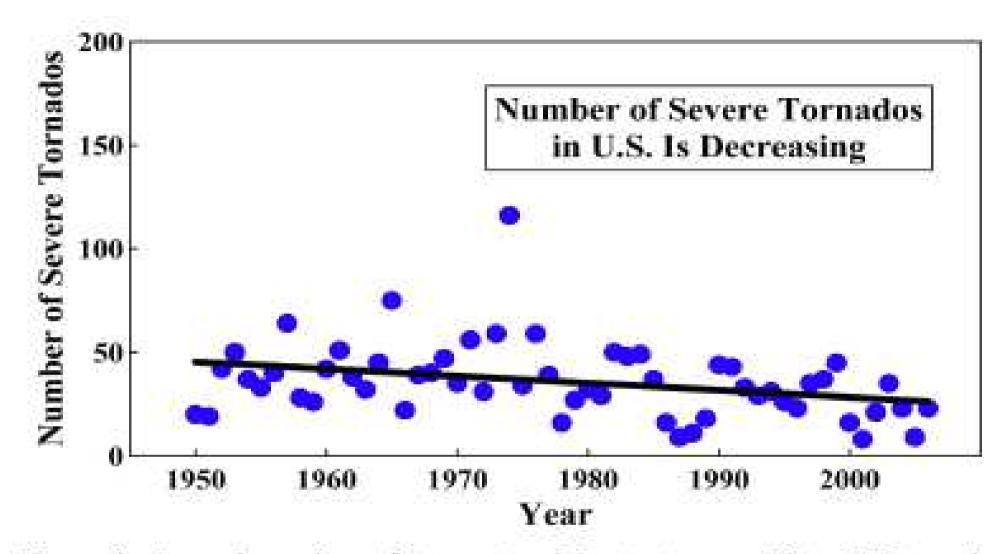


Figure 8: Annual number of strong-to-violent category F3 to F5 tornados during the March-to-August tornado season in the U.S. between 1950 and 2006. U.S. National Climatic Data Center, U.S. Department of Commerce 2006 Climate Review (20). During this period, world hydrocarbon use increased 6-fold, while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

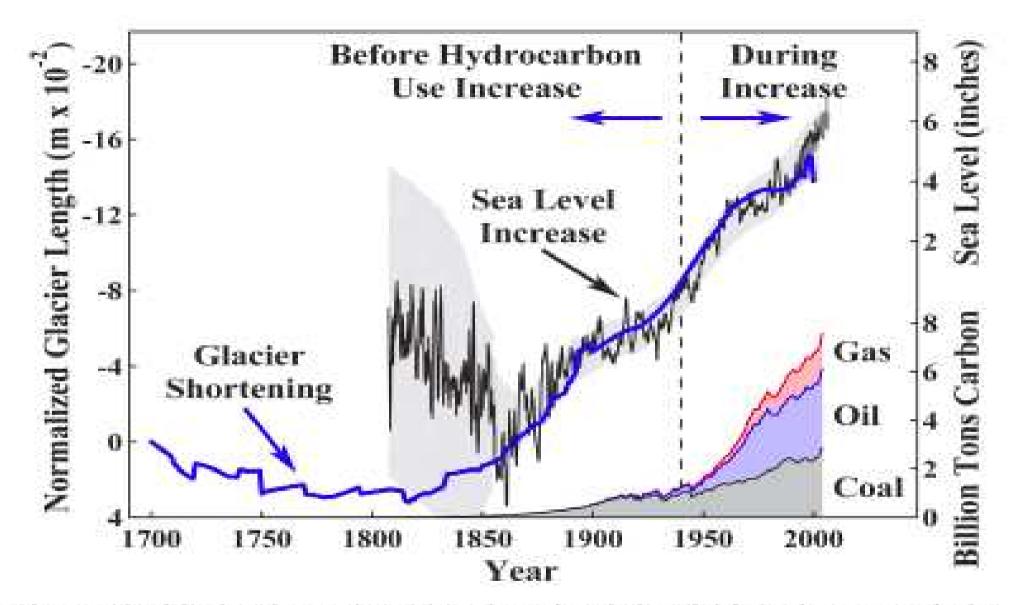
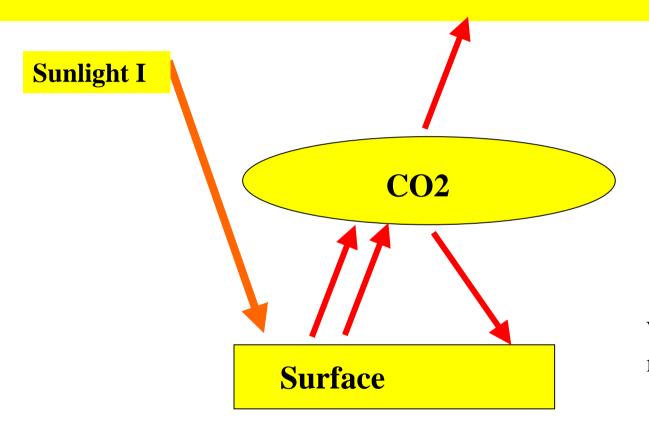


Figure 12: Glacier shortening (4) and sea level rise (24,25). Gray area designates estimated range of error in the sea level record. These measurements lag air temperature increases by about 20 years. So, the trends began more than a century before increases in hydrocarbon use.



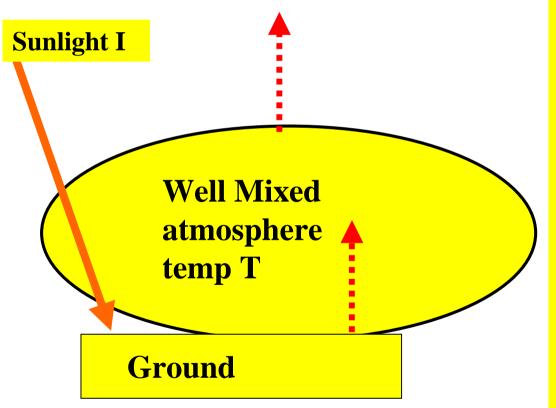
Claim	Refutation(i) Anything X zero effect = zero(ii) No evidence for this. There are no CO2 spikes in the past ice cores because CO2 is a gas and diffuses through centuries of ice. This current CO2 spike will be invisible in 1k yrs time.				
"CO2 levels have never risen so fast or been so high"				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

Basic idea of the process – as portrayed in media



Water vapour supposed magnifier Not shown

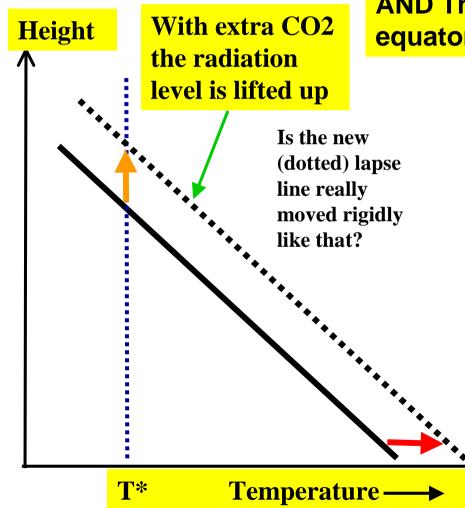
It Cannot work in a uniform temperature atmosphere (not understood in media)



If temperature is uniform the radiation from the top (where more would come from if there is more CO2) would be the same as from the bottom or the ground, So adding CO2 to a uniform atmosphere has no effect.

BUT the atmosphere is not uniform.....

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

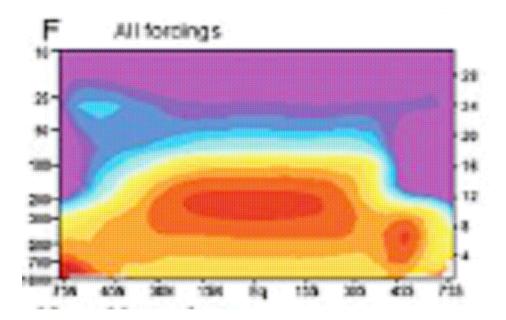


AND The GWers predicted HOTSPOT above the equator is NOT THERE. It's a COLDSPOT instead.

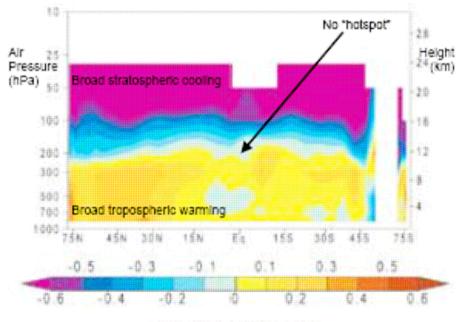
What's Up? PHYSICS Possibilities

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

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



THEORY of HOTSPOT



Linear trend (*C/decade)

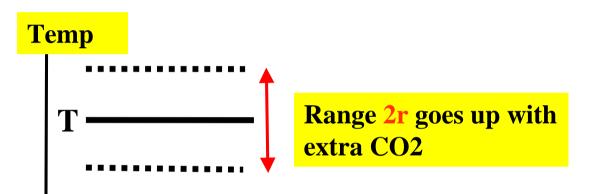
Figure 2: The observed pattern of atmospheric warming, 1979 - 1999, annotated.

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

OBSERVED COLDSPOT

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

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



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

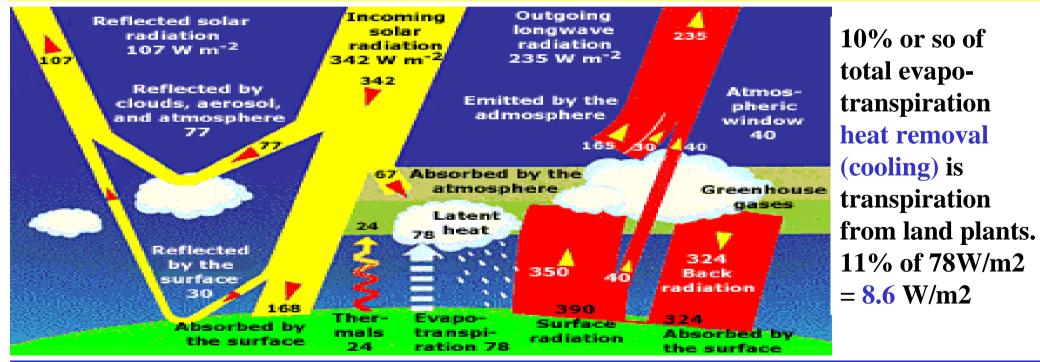
Work it out for the same radiation. For an increase Δr in half range, T will have to go

DOWN: $\Delta T = -3 \Delta r \times r/T$

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

- further to Piers Corbyn International Climate Seminar Stockholm Sept 2006 NB THIS DIAGRAM is not necessarily accurate

AND if there is heating effect left Extra plant transpiration-Cooling in real world will negate <u>all</u> extra CO2 surface heating (or cooling)



<u>**Doubling CO2**</u> 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** $3.8W/m^2$ **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.

Solar Activity Rules!

For example April 29th **Coronal Holes led to Increases in geomagnetic** activity & jet stream shifts & predicted tornadoes, thunder & massive floods **USA & Azerbaijan** (details WeatherActionNewsNo19)

Movie of jet stream

- Archive jet stream – Animated Loop - 2010 May 1st 0z - 4 days - 6 hr steps

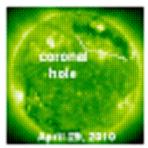
SEE May 2nd / 3rd as Coronal Hole effects hit – major Jet over SE USA & mid East extra JS thrashing about /break-up. Polar core wind rotation changes direction May 3rd

Coronal Holes drive Solar wind changes which trigger PREDICTED thunder, tornadoes & floods

The Chain of events...

 Coronal Holes observed on April 29th appear to have been the main triggers for the extreme events later in this series of predicted SWDs. See http://acabane.phy/coorde.phi/e.phi/weight/acabane.phi/colore

The WOAA warning of April 29⁴ wars- A taker what stream flowing from the ballouted correct hole could reach Earth on or about May 3rd, Credit STERED-B Derrors UV."



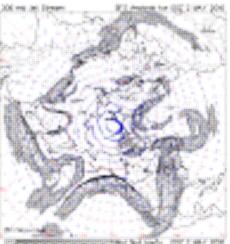
2. Major increases in Geomagnetic activity www

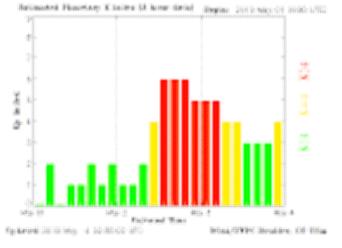
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and conceptions: distantioners associated with estim-

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3. Jet Stream Shifts deed in consequent predicted SWIP*s - Solar Weather Impact periods (carl o u.s.) - searcizes statisticas





4. PREDICTED Extreme weather

events across the World

Notice the greatly increased let dream speeds over S/E USA. and Mid-End / Apartalian around 2rd May (Juli) where produced extreme events were coeffered.

Vielt http://www.il.elie.ce.dv/workdai/shenia in heave model http://www.ud namber of Altainers designed.

The jut stream changes corresponding to the gradient cold Mastery. blass over Tritain A Induct around 1-3 May are also apparent. For full for wasts of World Extreme events, Europe Extremes events, Economic forecast pressure Maga and Tertain A. Induced detailed form with which - intercharge we after not iver complete and

And the thunder, **Tornadoes** and **FLOODS!!**



http://www.examiner.com/ExaminerSlideshow.html?entryid=1230132&slide=1 Severe Floods North Mississippi May 2 confirm predicted effects of WeatherAction world-wide SWIP (Solar Weather Impact Period) May 2/3 and deluges from major SWIPs in preceding days. Simultaneous Major Floods in Azerbaijan (below) and related floods in Riyadh Saudi Arabia also confirmed WeatherAction specific warnings. http://www.news.az/articles/14845

http://saudijeans.org/2010/05/03/rivadh-crisis/



Proven success of Solar Weather Technique

Met Office forecasted BBQ | Sizzling Summers 2007, 2008 & 2009 Piers Corbyn (WeatherAction) forecasted FLOODS months ahead for each of the three summers. So what happened ??!!......



Tewkesbury Floods July 2007(*left*) + County Down in Northern Ireland & Fife in Scotland struck by flooding on Wed 12 August 2008 + 7-year-old Max Preston, from Merseyside, paddles his kayak around tents on a campsite near Keswick 29 July 2009.

Britain and Ireland were 'under water' July 2007. Summers of 2008 & 2009 were also mainly very wet in Britain & Ireland (espec Nth Britain in 2009) contrary to the forecasts of Standard meteorology and in agreement with WeatherAction long range forecasts. WeatherAction also predicted much **detail** of the worst deluges from months ahead & out-ran TV forecasts from a few days ahead for details, **intensity and timing** of many deluges.

AND Winters 08/09 and 09/10 defied MetOffice mild prognoses & confirmed WeatherAction forecast for ICE & SNOW DELUGES....

It's not a cold **SNAP** -It will go **ON & ON**

by WeatherAction 6 months ago

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CONTRACTOR NUMBER

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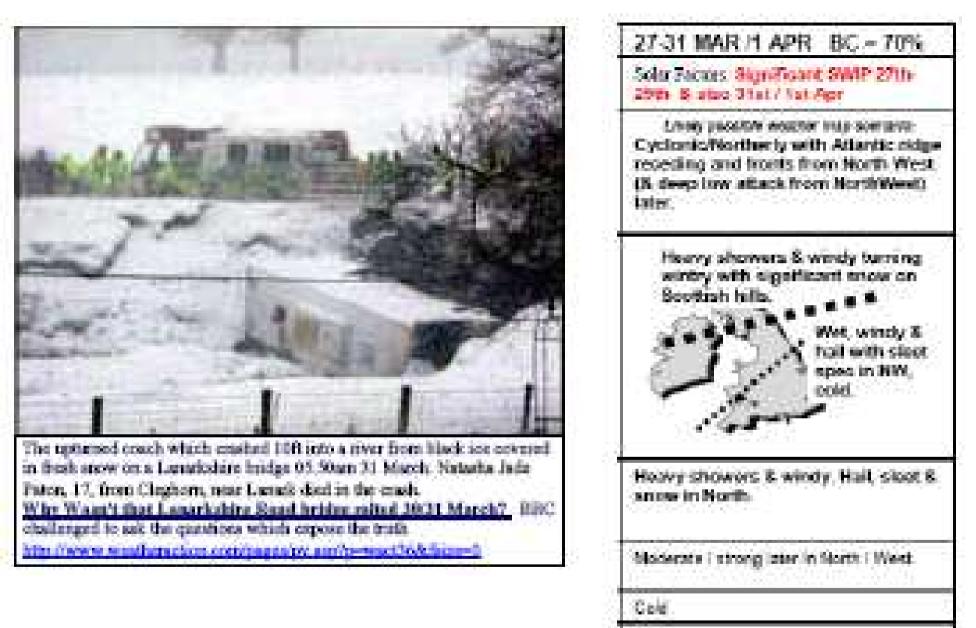
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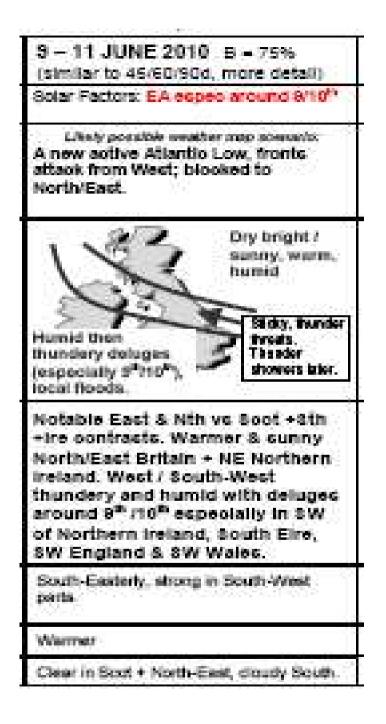
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27-31 MAR /1 APR BC = 70%
Solar Factors: Significant SWIP 27th- 29th & also 31st / 1st Apr
Likely possible weather map scenario: Cyclonic/Northerly with Atlantic ridge receding and fronts from North West (& deep low attack from NorthWest) later.
Heavy showers & windy turning wintry with significant snow on Scottish hills. Wet, windy & hail with sleet spec in NW, cold.
Heavy showers & windy. Hail, sleet & snow in North.
Moderate / strong later in North / West.
Cold
Cloudy / dull



Closidy / dull



NE FI	ash Floods	
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	Scot	
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9/10	▶ High	12-14 V High
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What Next for USA?

USA Long Range Extreme events forecasts & General Scenario prognoses. MAY 18th to JUNE 14th 2010 SWT25E Issued 13 May 2010

(General confidence 85% timing normally accurate to about 1 day) SWIPs as in Europe Forecast Map options chosen 29 March 2010 & used in B & I 45d & 30d forecasts.

Information

- WANews No 19 on important predicted extreme events early May (floods & Tornsdoes USA, floods Azerbaijan) following Coronal Holes April 29th - <u>http://www.weatheraction.com/does/WANews10No19.pdf</u>
- Events in USA Tornsdoes, hail and thunder deluges especially around 7th & 11th (Oklahoma) and (coming) 13th-16th May are as we would expect although no forecasts issued for 4th-17th May.
- 3. Tropical Storm formation and rapid development forecasts for Atlantic & East Pacific are issued separately.

MAY 18-21 Sharp (a type) SWIP: Red Weather Warning esp 18th & 21th (BC = 70% confidence period) Severe deluges, FLOODS, hail thunder and tornadoes MidWest, South-central & SE USA.

LIKELY PRESSURE general scenario: Powerful Low South USA heading to NE USA as ridge builds in central USA from the North and it turus generally colder especially nights in Central parts later.

MAY 22-26 (B = 75% confidence period) LIKELY Pressure general scenario: Quieter, High Pressure central USA with cold nights. Low pressure cloud and showers NE USA.

MAY 27-30/31 Sharp (a & type type) SWIP: TOP Red Weather Warning (BC = 70% confidence period)

 A LARGE STORM - Widespread Severe deluges, MASSIVE hail thunder and WIDESPREAD POWERFUL DANGEROUS tornadoes - espec MidWest, Central, South-central & SE USA.

LIKELY PRESSURE general scenario: Extensive ACTIVE Low Central USA and probably Low also off Florida (NB see Tropical Storm formation forecast this is likely to also become the first ATS of season). Prob Higher pressure building over Great Lakes & South of there later.

 JUNE 9-14 esp 12-14 Sharp (a type) SWIP: TOP Red Weather Warning esp (BC = 70% confidence paried)
 WIDESPREAD SEVERE FLOODING Severe deluges, hall thunder and some tornadoes Mainly NorthEast, MidWest, Central & South USA.

LIKELY PRESSURE general scenario: Changing situation but prob Rockies ridge (cold air) + Powerful Low central USA + separate Low NE USA.



What for BI & Europe?

MAY 18-21 - Major SHARP SWIP TOP (α type) especially 18th & 21st. RED WARNING

 Most of Sweden & Norway (inc Nordpool area), Denmark, Germany, Low Countries & most of France, Switzerland.

Heavy thundery deluges hail and local floods and tornado events in places.

• Italy, Corsica, Sardinia, Gulf of Genoa, NW Balkans, Switzerland. Major thunderstorms, waterspouts /tornadoes likely, local floods.

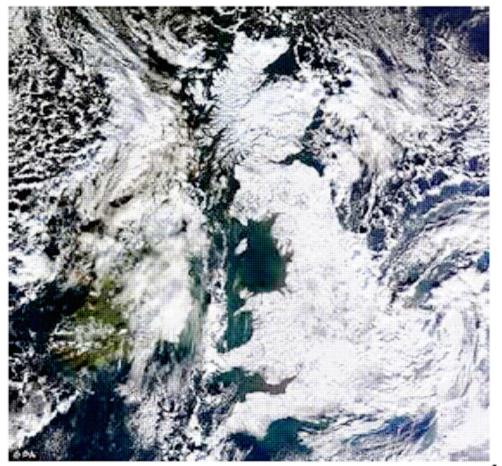
MAY 30/31st - Major Top αΔ type SWIP . RED WARNING

- South Sweden & Norway (inc Nordpool area), Denmark Germany, Low Countries, France, Switzerland, Italy Corsica, Sardinia, Gulf of Genoa, NW Balkans. Heavy thundery deluges hail, local floods and tornado events in places.
- Ukraine, Belarus and much of East Europe. Major heatwave likely.

June Brit showery & cool some deluges & floods. JSS (Jet Stream South). Scand wet / v wet. France finer

JulyAugAugSeptOctNovDec

Gross damage, suffering & loss of life is and will be caused by Climate Change Policy



Snow covered Britain & Ireland from Space (NASA photo 7th Jan 2010) confirming WeatherAction Long range forecast issued July 2009, ahead of all others.

If Britain Ireland & Europe relied on wind farms the lights would go out every winter – and there will be more cold ones!

The Global warmers silly mild winter forecast led to road-salt running out, extra accidents & road deaths

And there is Biofuels (burning food), Carbon trading, job destruction for Carbon handouts (eg Redcar).....

What to do? – 4 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. **GOL (CO2) IS NOT A POLLUTANT.**

2. ACCEPT Man can't change Climate! The Problem is Climate Change POLICY.

'Climate Science' lacks integrity. Science is not driving policy. It's the other way round! **Prove and predict.** Basic standards of science should be applied in Climate science.

3. PREPARE for the end of Carbon Games

Carbon Trading & all 'Green' games will end. Make new business models to BE AHEAD OF THE GAME. **Be honest Green** - Stop real pollution - Defend biodiversity - Go for cheap energy **and Accountable Evidence-based science & policy.**

4. USE Proven forecasts – Reduce losses! Support a new World effort to predict & prepare for all natural disasters



USE Proven forecasts – Reduce losses!

If you have found any of the information so far useful then BUY!

If many local farmers order full long range forecasts we can reduce the price to maybe 1/3 normal (= 67% off)

Thank you

WEATHER ACTION

Solar Activity drives Climate



– Oman stalagmite data 9.5kyr to 6k yr before present

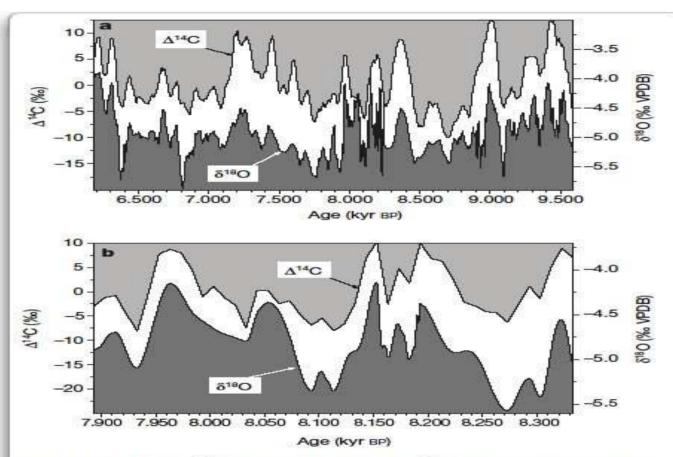


Figure 2 Profiles of H5 δ^{18} O values and atmospheric Δ^{14} C. **a**, The entire H5 record (826 samples); **b**, the high-resolution interval. Both profiles in **a** were smoothed with 5-point adjacent averaging for better visual comparison. The δ^{18} O profile in **b** was filtered with 7-point fast Fourier transform smoothing (cut-off frequency, 0.1 yr⁻¹). The correlation coefficient of the unsmoothed data is r = 0.60, $F(>|r|) < 10^{-8}$ in **a**, and r = 0.55, $P(>|r|) = 1.1 \times 10^{-4}$ in **b**. Because of the apparent good relationship between the two profiles, we fine-tuned the peaks of the δ^{18} O age profile to the peaks of the Δ^{14} C record. The corrections of the Th–U timescale are shown in Fig. 3.

NATURE VOL 411 17 MAY 2001 www.nature.com

🟁 © 2001 Macmilla

<u>Growth layers of stalagmite in</u> <u>a Cave in Oman show:</u> Close correlation between Particles from the Sun* & Temperature**

{*C14 proxy from Cosmic Ray Flux which is reduced by Solar magnetic-particle activity.

**O18 isotope is Climate proxy}

Similar correlations exist over the last 500 Million years

See Neff et al, Nature May 2001; Veizer, Geoscience Canada March 05



Proxies drivers and modulators Beware confusion of cause, effect & association!



Increased solar (magnetic) activity excludes more cosmic rays (extra-solar high energy) from solar system and Earth. Cosmic rays convert N14 to C14 so C14 is a reverse proxy for solar activity.

$\Delta C14 = -\Delta Solar activity => 11yr signal$

Also note solar Cycle length = 1/ solar activity approx.

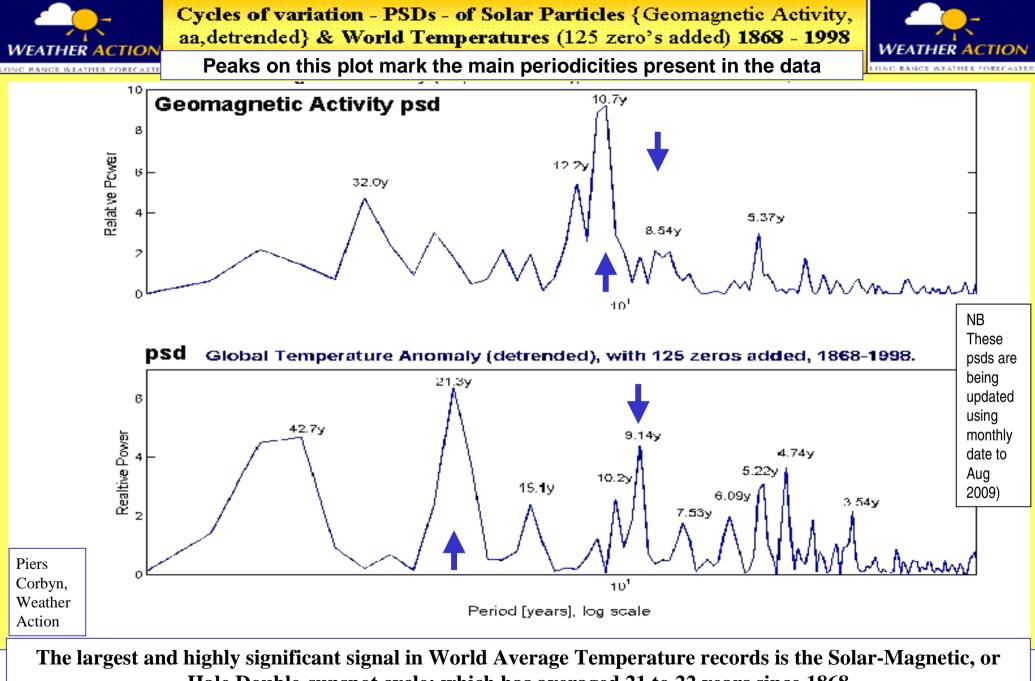
Geomagnetic activity = Solar activity <11yr>

X Earth magnetic cross section (depends on slow changing Earth's magnetic field) => <u>11yr signal</u>

Temperature = Particle EFFECT

= Geomag activity X magnetic linkage to lower atmosphere via poles etc <22yr> => 22yr signal

Solar magnetic cycle (22yr) smoothed temps and geomagnetic activity move together better than anything else.



Hale Double-sunspot cycle; which has averaged 21 to 22 years since 1868

What Does & Doesn't drive Climate One X and you are out!				WEATHERACTION		
Evidence	Temps 1975 to 2000 (smoothed)	Temps last 100 or 1k or 10kyrs	Temp last 25k yrs	22 yr signal world temps	60 yr signal PDO & World	 ✓ = Might explain That evidence X = Doesn't work
CO2	\checkmark	X	X *	X	X	Shows on long time scales CO2 is driven BY temps
(Extra solar) Cosmic Rays (avoid confusion with solar muons etc)	See <u>13th May</u>	2009 WeatherActi	on News No 30 =	+http://www.weath	heraction.com/displaya	NB Total Energy flux of solar particles ~300 times Cosmic rays. article.asp?a=34&c=1
Light variation in solar cycle	√?	√?	√?	X	X	Light variations in solar cycle less important than solar magnetic (but UV important)
Solar Activity & MAGNETIC Link/modulation	\checkmark	\checkmark	✓	\checkmark	X	ALSO SWT 25d - involves SLAM - & has predictive
Solar AND LUNAR Amplification Magnetic (SLAM) Process	\checkmark	\checkmark		\checkmark		powers 12 months ahead

So what drives world temperatures?

World Temps	= Solar Activity (level & Timing)	X	Magnetic Links	X	Lunar Modulation
	(11yr)		22yr		(18.6/9.3yr)
			SLAM gives	the	55-60yr signal
	Need	Known		า	
	Can estimate				

By What Agencies & Mechanisms ?

The Total Weather State of the earth at any time is essentially defined by its 'SWT' State

SWT = (Solar activity *indicators*) x (sun-earth Magnetic links) x (stratospheric winds) x (season) x (lunar modulation)x(etc)

Total Weather State = TWS

or SWT → TWS

The SWT State (= a set or 'vector' in SWT phase space of *Weather Action Indicators*) is predicable forwards & backwards in time!

A specific SWT state in the future will in general have corresponding similar SWT states at times in the past.

The weather EVENTS in those past states and times are similar to what will happen in the future and such LOOK-BACKs (events or short periods) are therefore PREDICTORS for future weather.

WEATHER ACTION

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

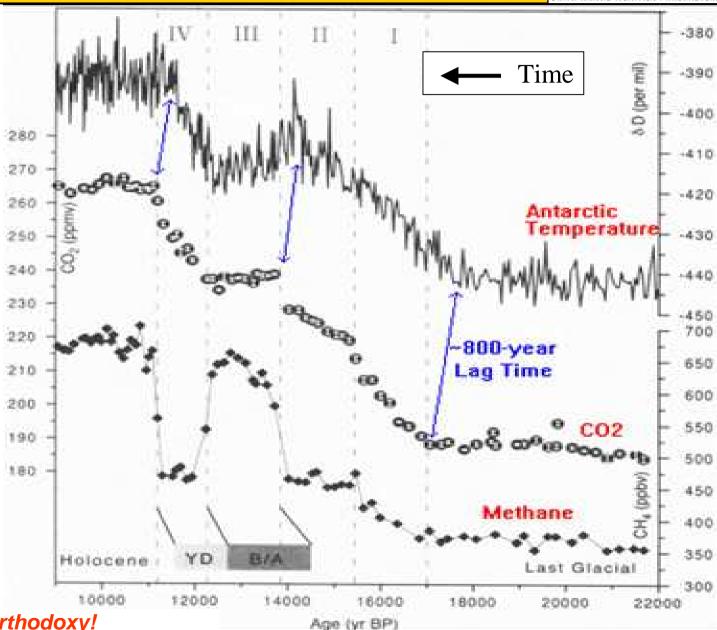
Similar leads are in Antarctic Termination III 240kyr ago (Caillon et al Science Mar 03)

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.

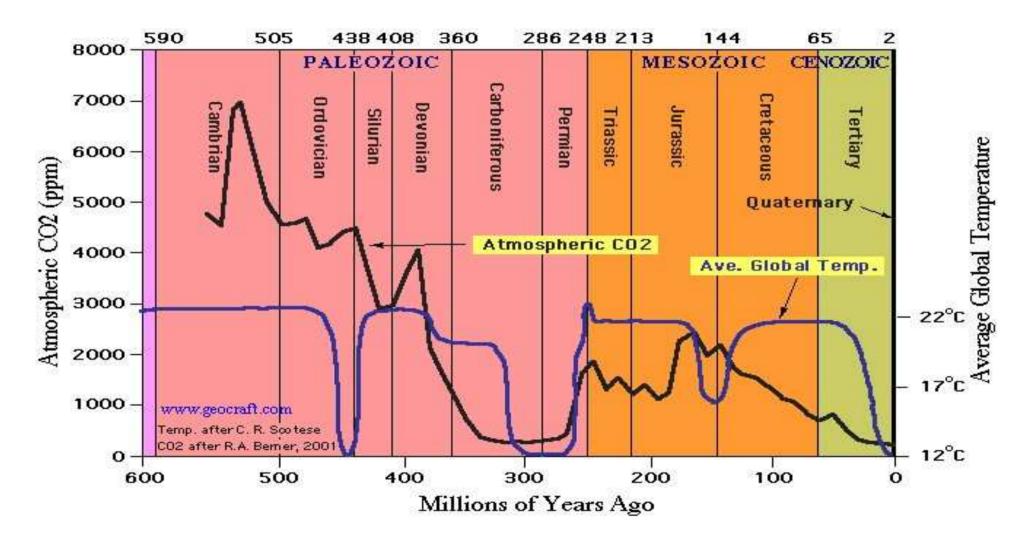
There is No Evidence that the present CO2 rapid rise is unique.

Inconvenient Truths for GW Orthodoxy!





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

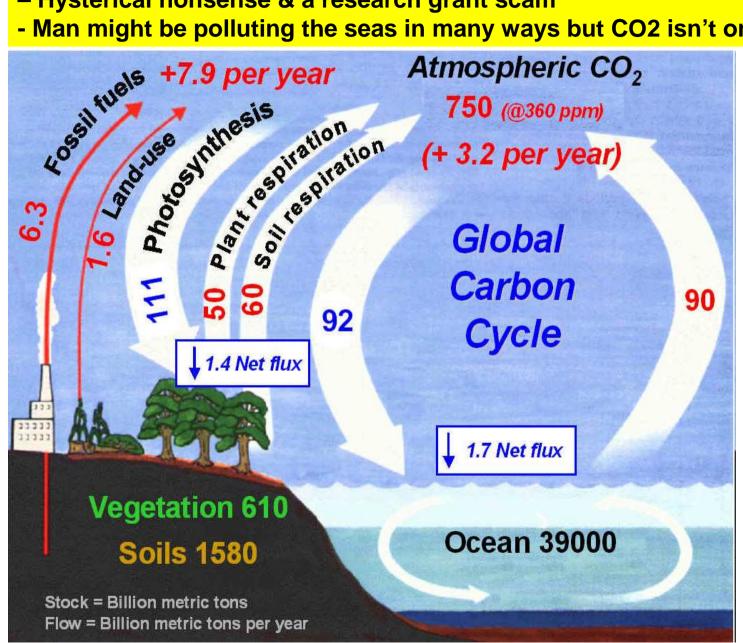


Late Carboniferous to Early Permian time (315 million years ago - 270 million years ago) is the only time period in the last 600 million years when both atmospheric CO2 and temperatures were as low as they are today (Quaternary Period). At no point do temperature and CO2 levels relate. *Temperature after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

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!

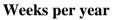
Official figures show at current rates it would take 23,000 years for Ocean CO2 to double even ignoring all the myriad of buffering effects, and the fact that this would use up all atmospheric CO2 50 times OVER!!!

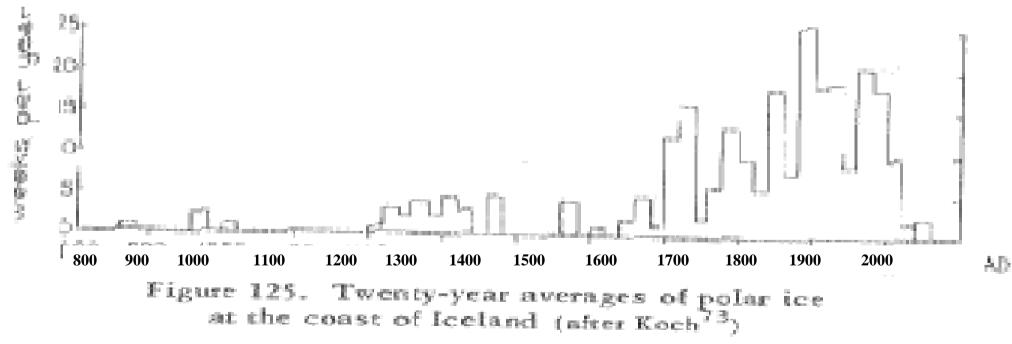
Arctic Ice & Polar Bears – More 'GW propaganda of the 2nd kind' -The true story of pack-ice off Iceland according to HMSO Official Reports-

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).





Dashed outlines indicate incomplete data for the 20 yr period, incidence shown being the lowest possible result for the period. 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} The weather extremes of recent years are part of natural essentially predictable processes*.....

The severe summer floods of 2007 & 2008 & 2009 were like the very wet summers of 1875, 1876, 1877 and 1879 - associated with the approx 132 yr pattern : 6X22=132, 7X19=133

The 2007 & 2008 & 2009 summer floods were predicted in detail by the SWT. This flood-likely summers situation *can* continue for a few years but is SUBJECT TO other conditions (SWT) being satisfied.

*As first explained by Piers Corbyn to the Imperial College Union President's centenary dinner 27th July 2007.