

“A Cool Look at Global Warming”



Presentation to
Sydney Legacy
at
Level 1, AWA Building
47 York Street, Sydney

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Thursday 30 June 2011

Is the end of the world really nigh?



**Dust storm as I drove across Sydney Harbour Bridge at 6:30 am on
Wednesday 23 September 2009**

*There is no opinion, however absurd,
which men will not readily embrace as
soon as they can be brought to the
conviction that it is generally adopted.*

(Schopenhauer, Die Kunst Recht zu Behalten)

The Australian public fail the knowledge test on carbon.

- 53% believe climate change causes tsunamis
- 40% believe climate change causes earthquakes
- 37% believe climate change causes volcanic eruptions
- 93% think CO₂ constitutes more than 1% of the atmosphere
- 47% think CO₂ is 'pollution'
- 37% think we should try to reduce carbon in the body
- 44% think food and drink would be safer if it had no carbon or CO₂ in it



But I want to start with facts that
we can all agree upon:

(global warming 'alarmists' and 'realists' alike)

Carbon Dioxide (CO₂) is:

1. A tiny trace gas (385 parts per million: less than a twenty-fifth of 1% of the atmosphere)
2. Naturally occurring
3. Invisible
4. Odourless
5. Non-toxic
6. Necessary for all plant life (photosynthesis)
7. Emitted by all animal life (breathing etc.)

So why is CO₂ called a “pollutant”?

Remarkable answer:

Because it is a “greenhouse gas” - even though greenhouse gases make Planet Earth liveable (+14°C current average global temperature, rather than -19°C otherwise)

When we hear the words
“carbon pollution” we are
listening to an oxymoron.

Carbon is the most useful element on earth. In addition to diamonds, graphite, coal, oil and natural gas, carbon is the building block of every living plant and animal cell. In the atmosphere it is naturally present in trace amounts as carbon dioxide (CO₂) and methane (CH₄).

One of the “Big Polluters” keeping our lights on!



Bayswater Power Station (Hunter Valley, NSW)
operating at maximum capacity

The visible white gas is steam from the cooling towers, with the tall chimneys emitting invisible CO₂

Greenhouse gases, in order of importance, comprise:

Water vapour (H_2O) 97%

Carbon Dioxide (CO_2) 2%

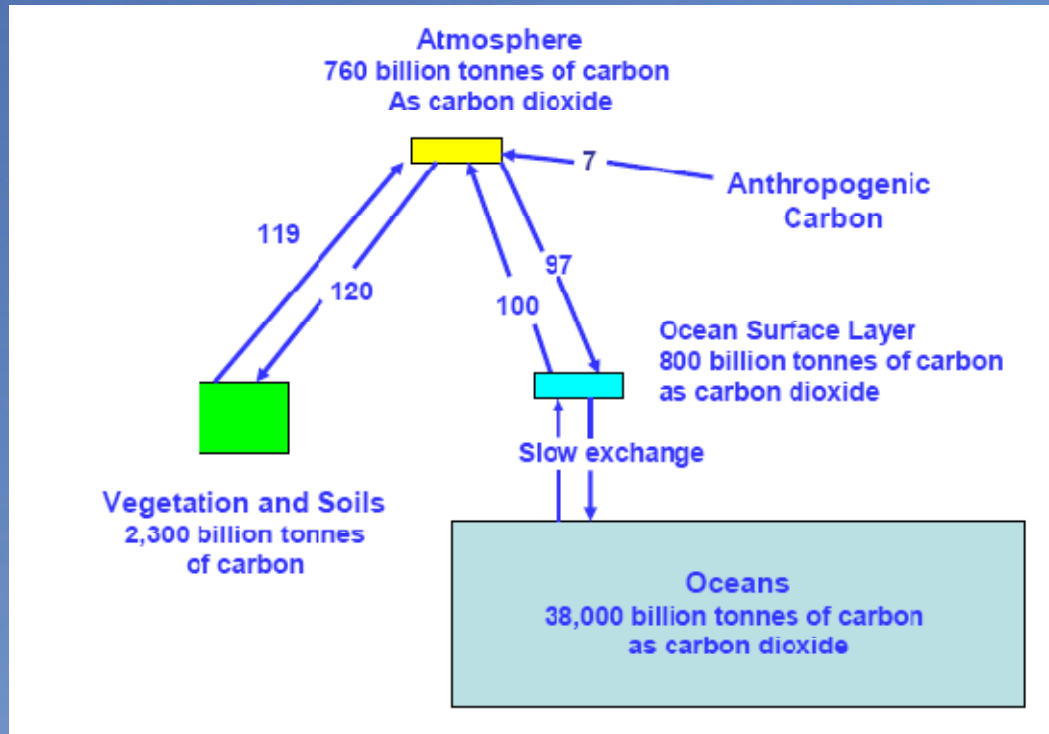
Methane (CH_4), Nitrous Oxide
(N_2O), etc. 1%

So fluffy rain clouds (H_2O), your exhaled breath (40,000 ppm CO_2 , 8,000 ppm in submarines) and cow belches (CH_4) are all villainous “pollutants”!

Humankind currently contributes **3%** of the Earth's production of atmospheric CO₂.

The **97%** balance of naturally-occurring CO₂ production is split between animals, vegetation and soils (53%) and the oceans (44%). Both the land-based biosphere and the ocean-based aquasphere also absorb huge amounts of CO₂.

Carbon Dioxide Cycle



Annual Carbon Cycle between the Oceans, Vegetation and Soils, Humankind and the Atmosphere

N.B. The oceans contain 50 times more CO₂ than the atmosphere.

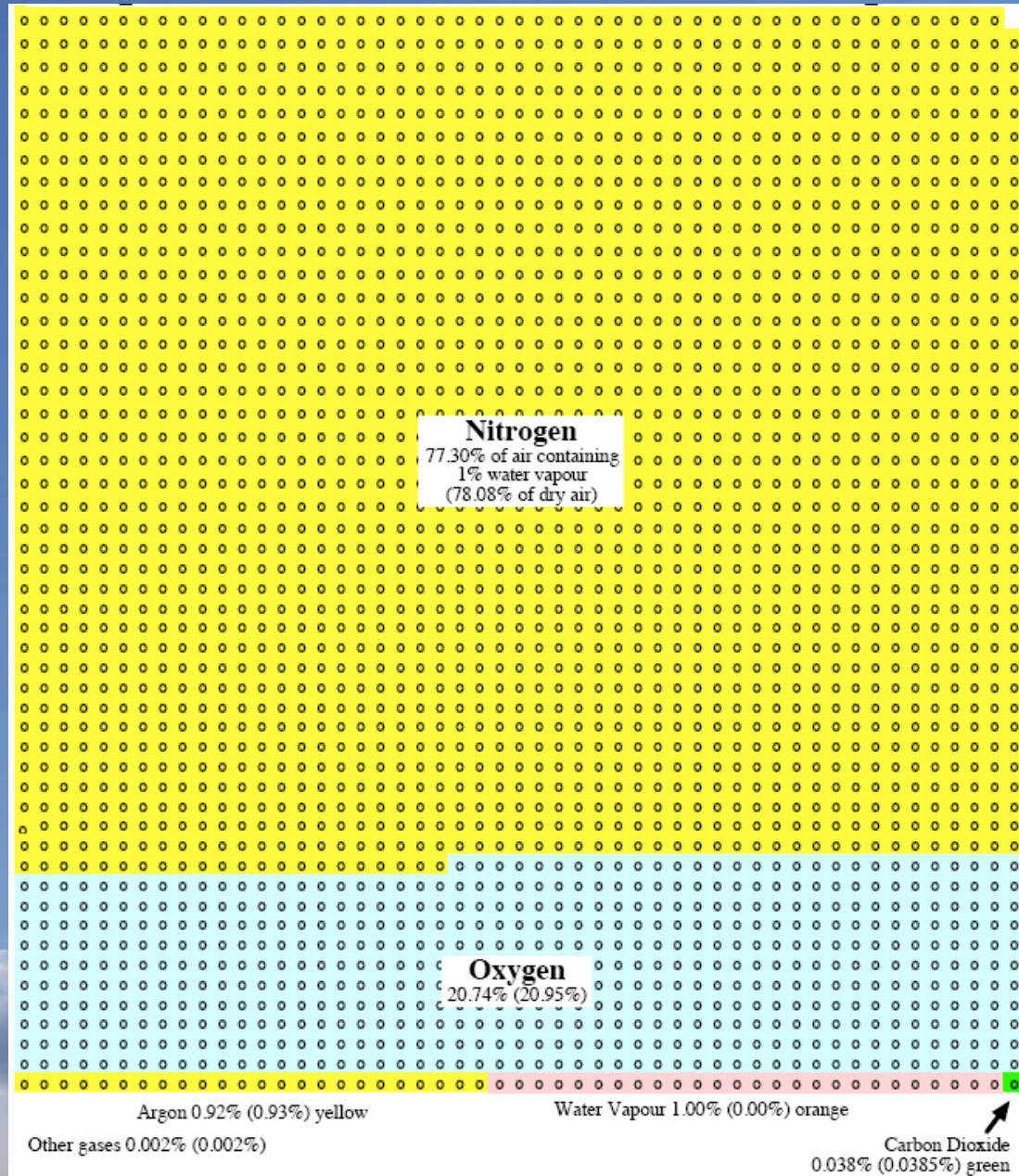
Eyjafjallajokul Volcano Erupts in Iceland in 2010



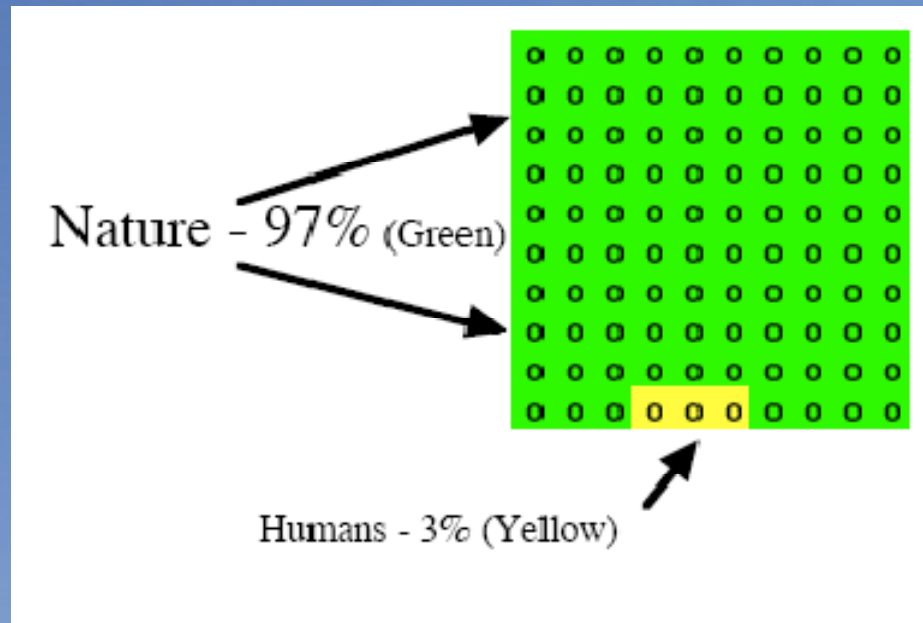
Mt. Puyehue Erupts in Chile in 2011



CO₂ is a tiny trace gas in the Earth's atmosphere



Humanity makes a minuscule contribution to CO₂ – itself a tiny but vital and natural trace gas.



If only humankind could emit
more CO₂!

Benefits of Carbon Dioxide

Doubling current CO₂ levels would improve food crop yields as listed below:

Wheat	60%
Legumes	62%
Other cereals	70%
Fruits	33%
Tuber crops	67%
Vegetables	51%



Between 1950 and the early 1990s, world population X2.2, food production X2.7
1970-2000 saw a 15% per capita increase in food consumption

CO₂ is Plant Food

Here is what happens over one year with more CO₂



385 ppm
(present ambient)



535 ppm



685 ppm

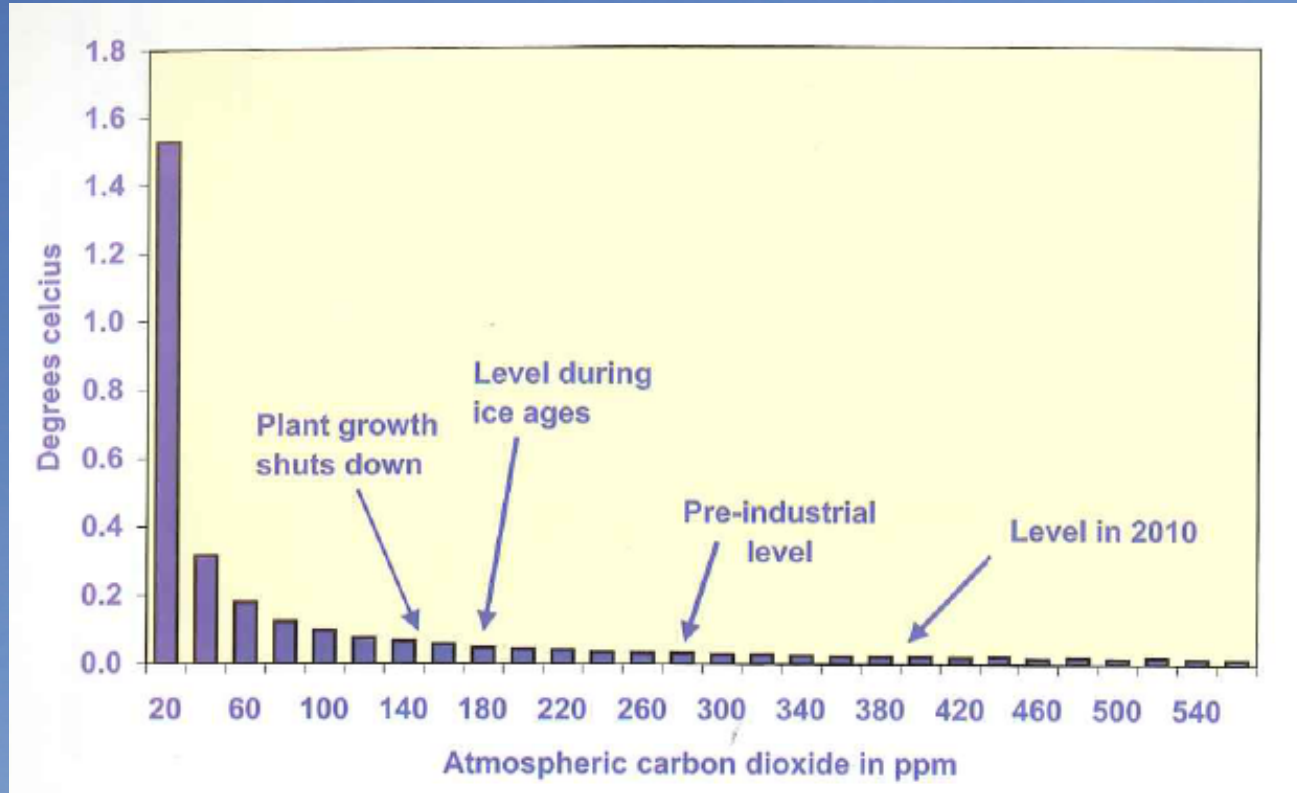


835 ppm

Cruelia starves the trees!

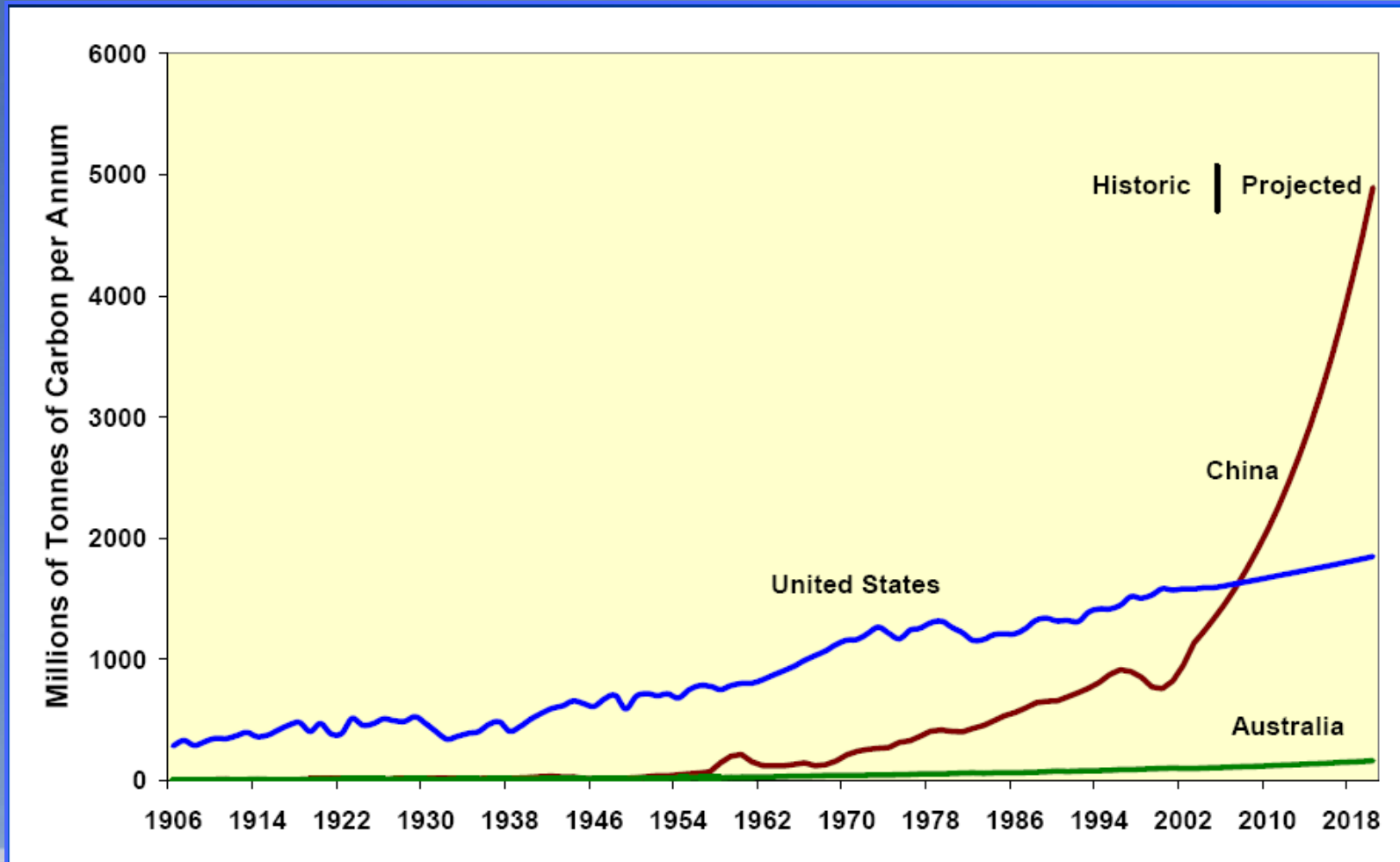


The warming effect of CO₂ declines logarithmically



The first 20ppm CO₂ in the atmosphere has a greater effect than the following 300ppm. The incremental effect of increasing CO₂ at the present 385ppm level is almost immeasurable.

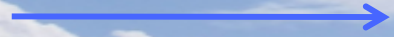
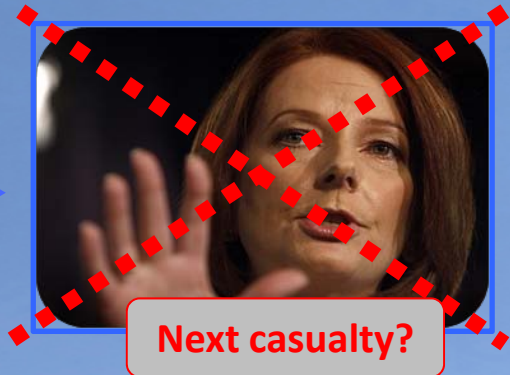
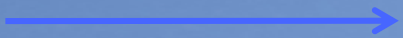
Australia contributes 1.4% of global anthropogenic greenhouse emissions.



Historic and Projected Atmospheric Carbon Contributions by the United States, China and Australia

Australia's 'commitment'

The 'base case' bipartisan plan is to reduce Australia's emissions by 5% by 2020.



This arbitrary commitment would therefore have had the following annual impact on the world's greenhouse effect:

$$100\% \times 2\% \times 3\% \times 10\% \times 1.5\% \times 5\% = 0.0000045 \%$$

or about a 22 millionth!

(Equal to one human step in a trek around the Earth's equator!)



And yet the Greens tell us that Australia's failure to cut CO₂ emissions will...

- ⇒ destroy the Great Barrier Reef
- ⇒ reduce agricultural production in the Murray-Darling Basin by 90% by 2100 due to drought
- ⇒ inundate Australia's coastal homes
- ⇒ melt the Snowy Mountains ski fields
- ⇒ ruin Kakadu National Park



They never explain how or why!

Senator Bob Brown, The Australian Greens

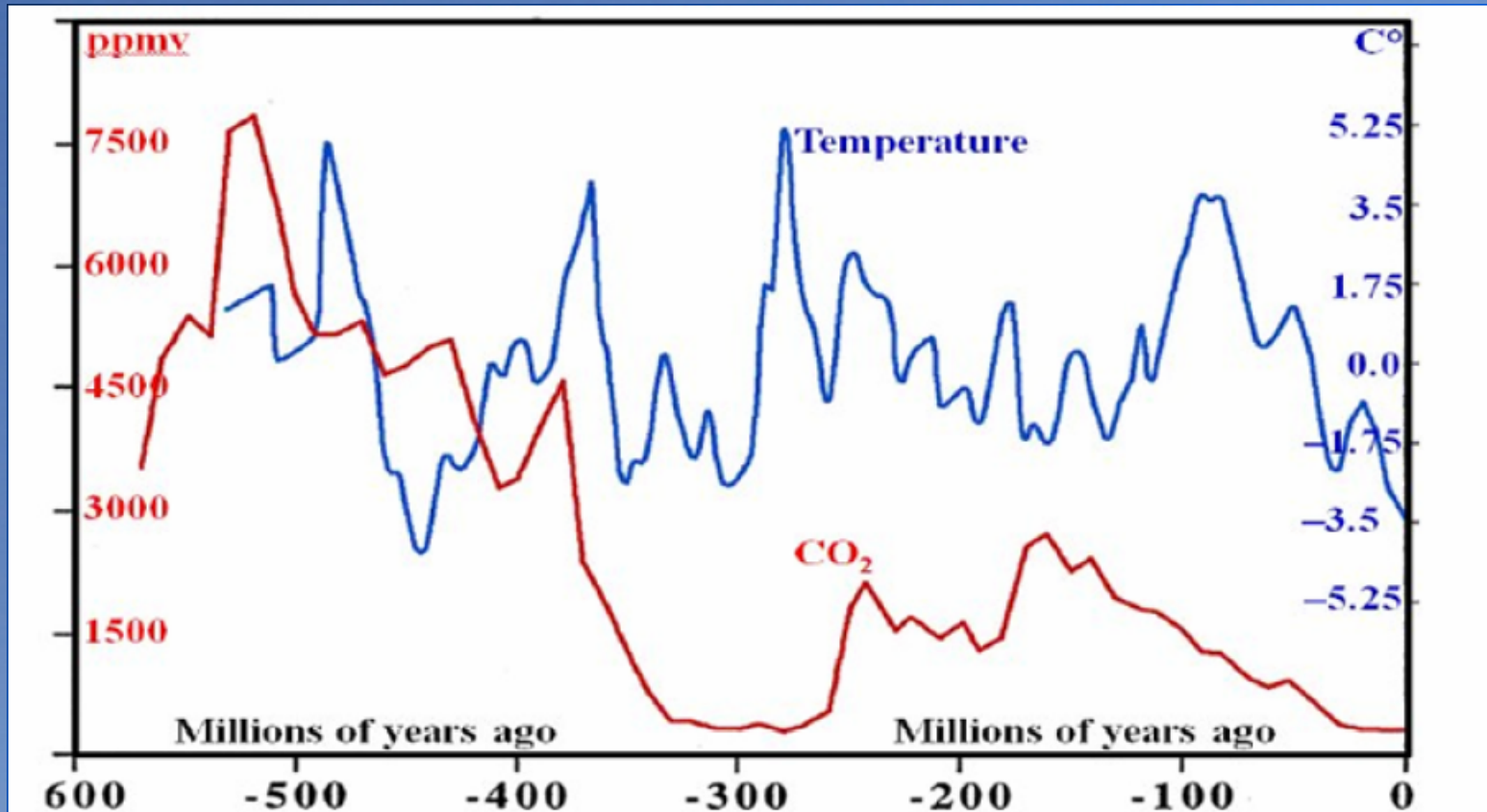
Brisbane 1893 ~ 118 years ago!



So, to justify this huge national effort for effectively nil outcome, carbon dioxide must be the real villain of 'catastrophic' Global Warming:

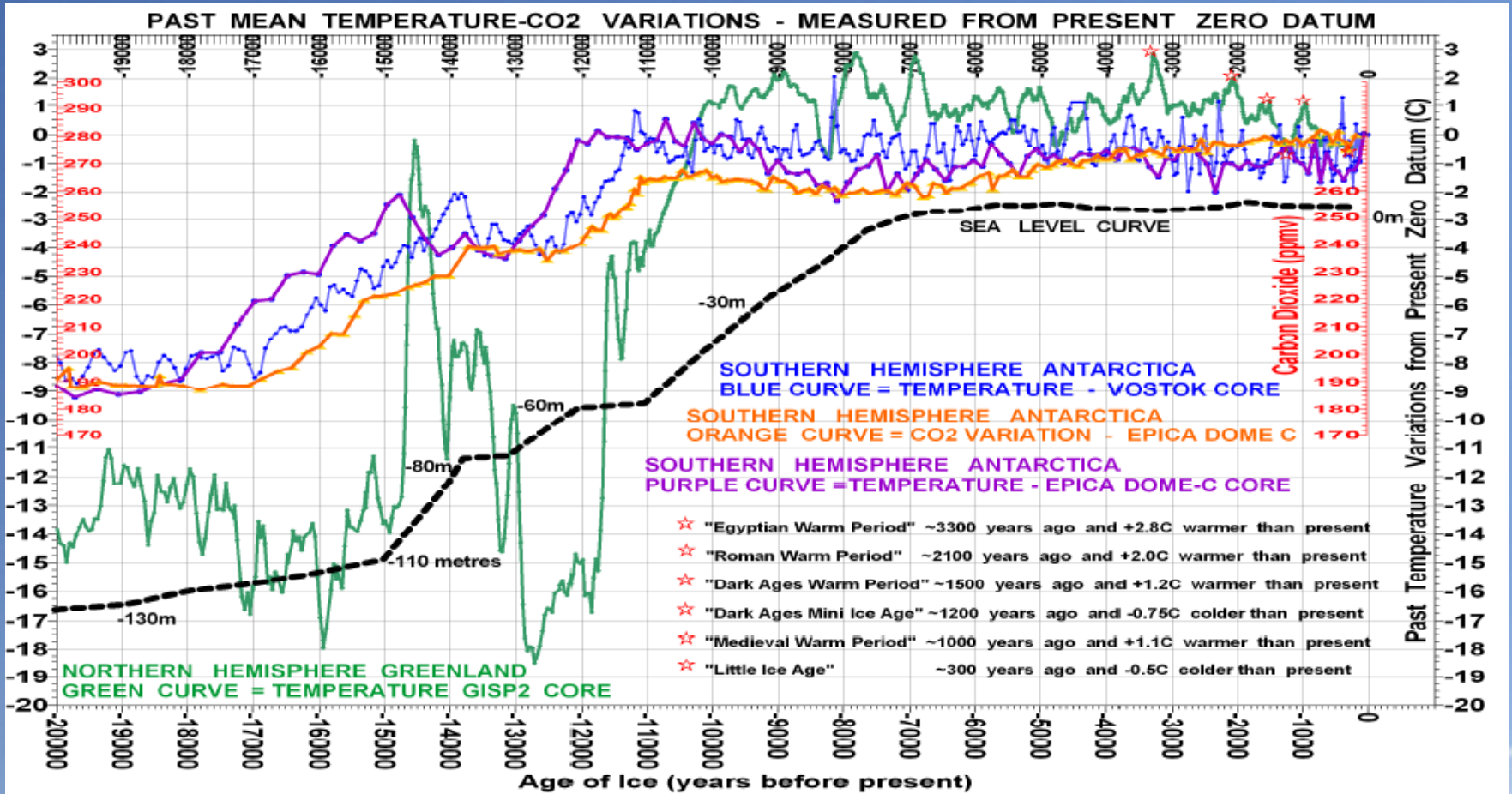
Right?

Wrong !



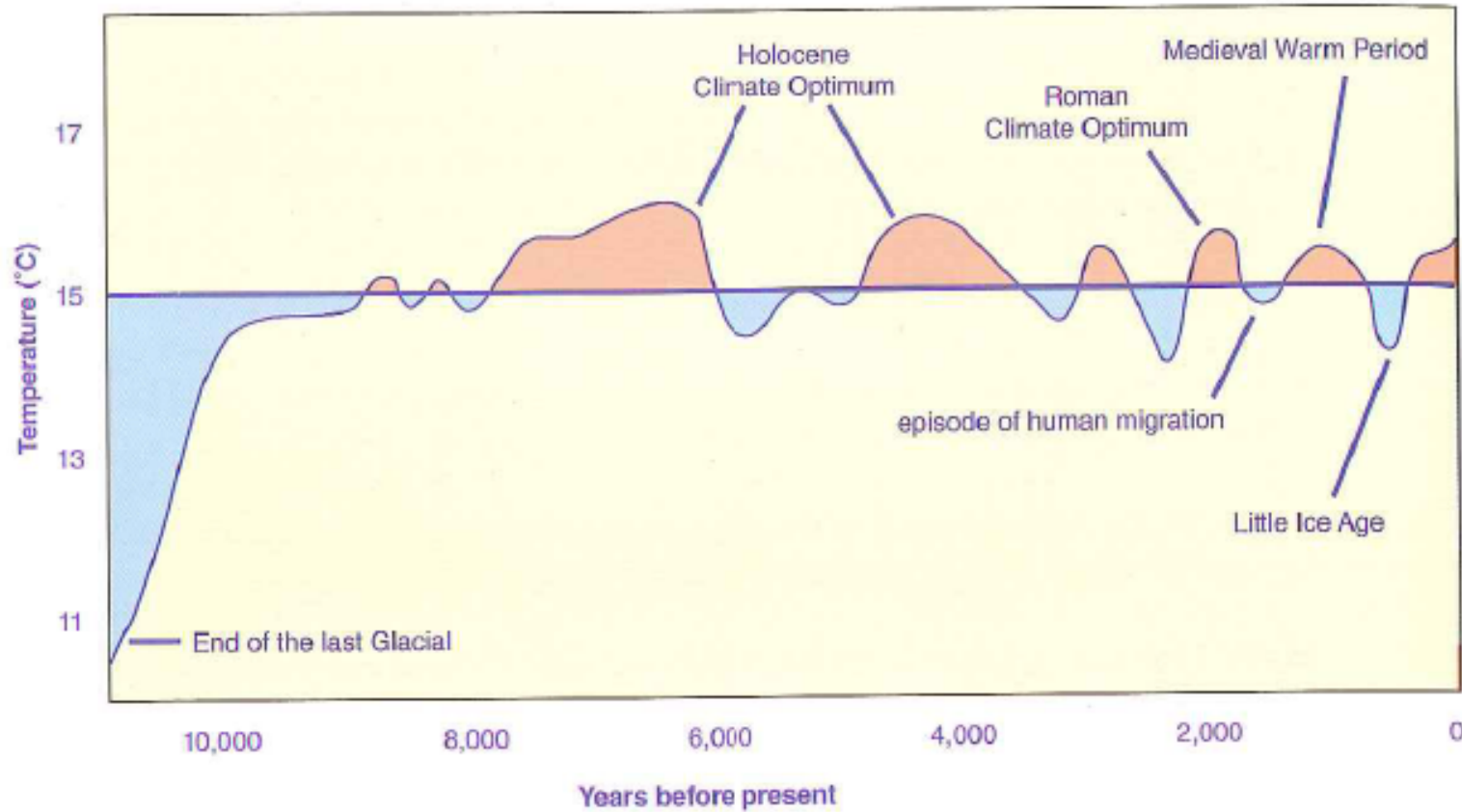
600 Million Years of Temperature and CO₂ show no correlation. Over the last 150 million years, geological processes have taken 90% of the carbon dioxide out of the atmosphere.

Temperature, CO₂ and sea levels for the last 20,000 years

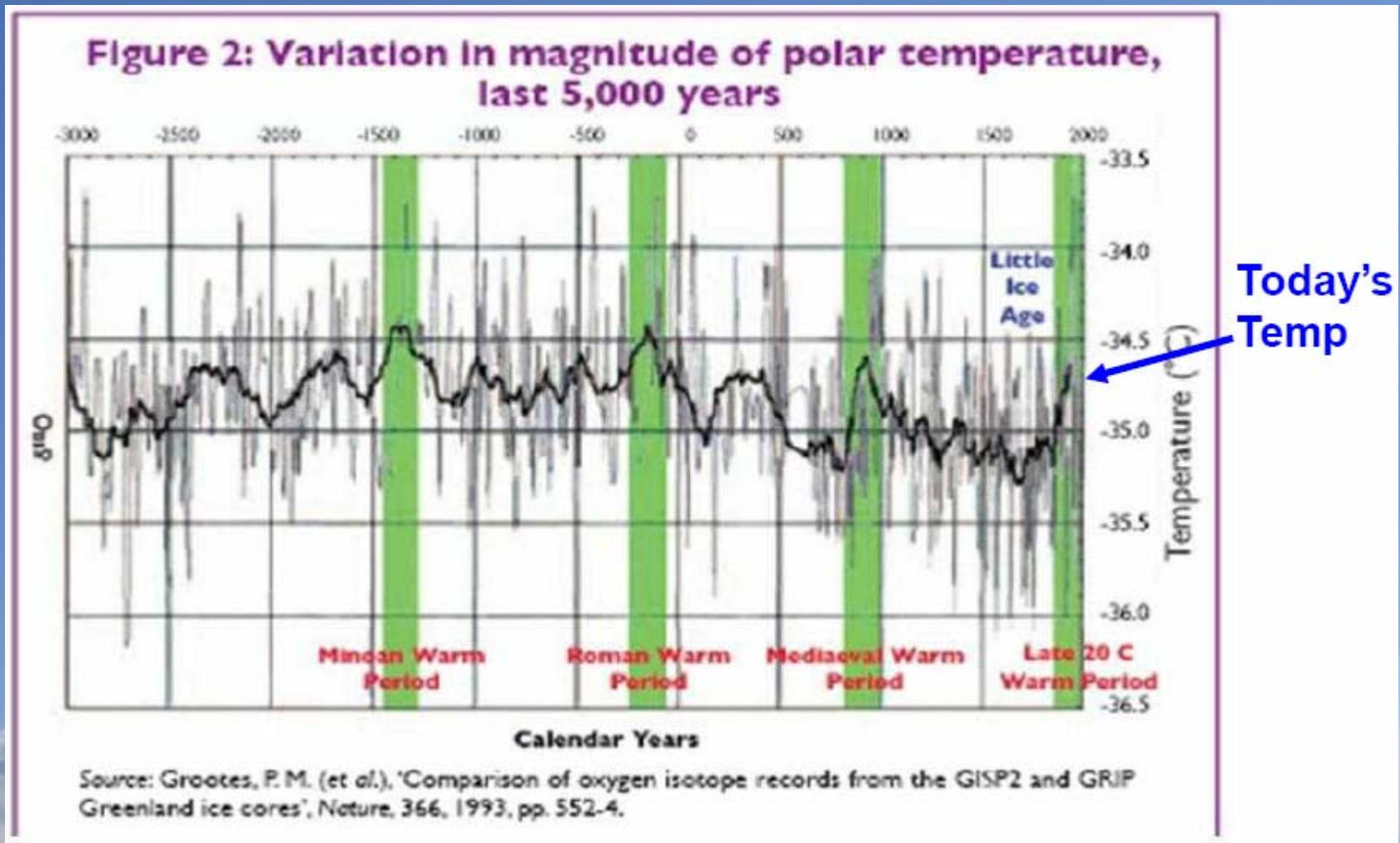


Relative stability during the most recent 7,000 years when human civilization has advanced most rapidly.

Stable temperature range since end of last ice age

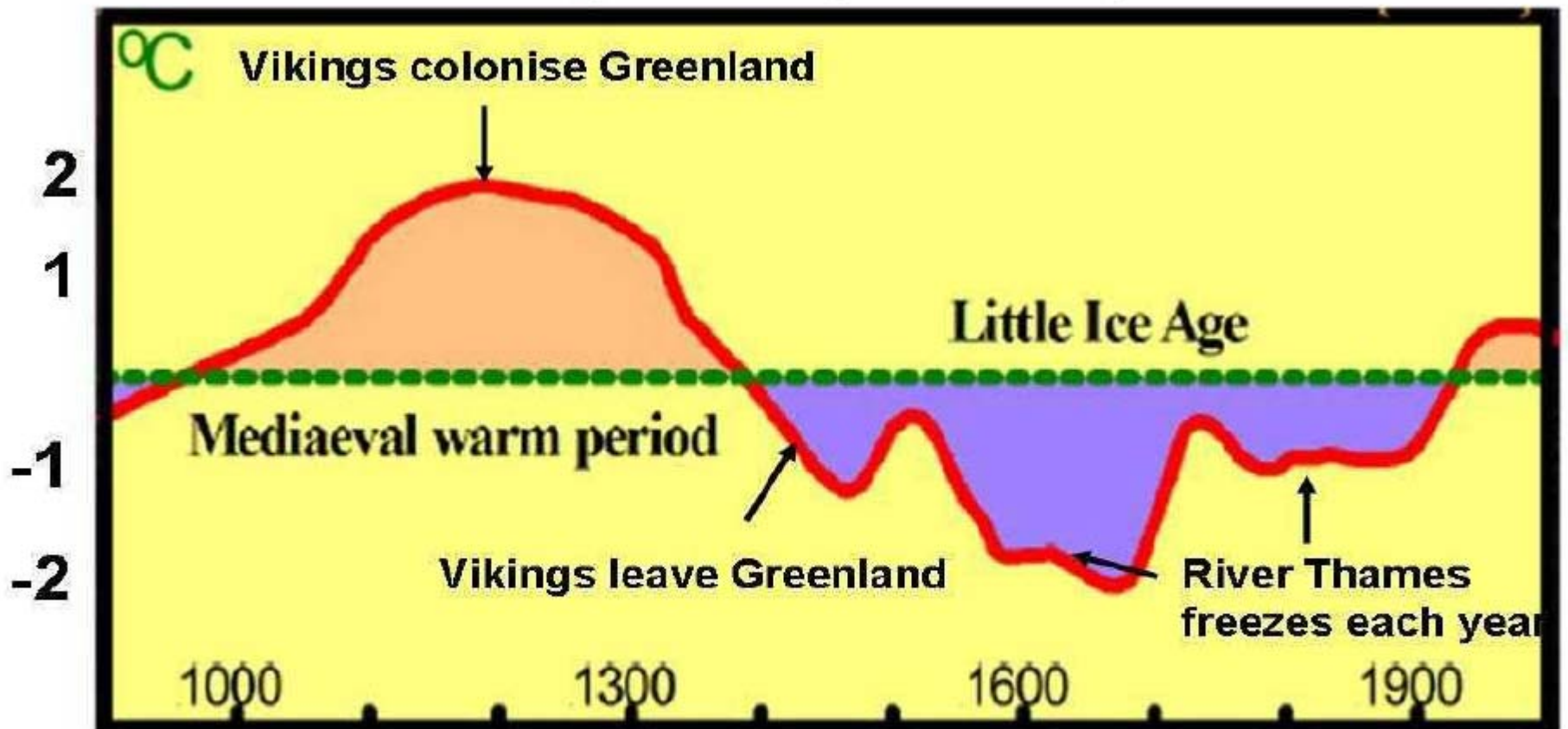


Over the last 5,000 yrs there were **three** warm periods (green sections) where it was warmer than today and the Earth survived while human civilization flourished!



What is Earth's normal temperature?

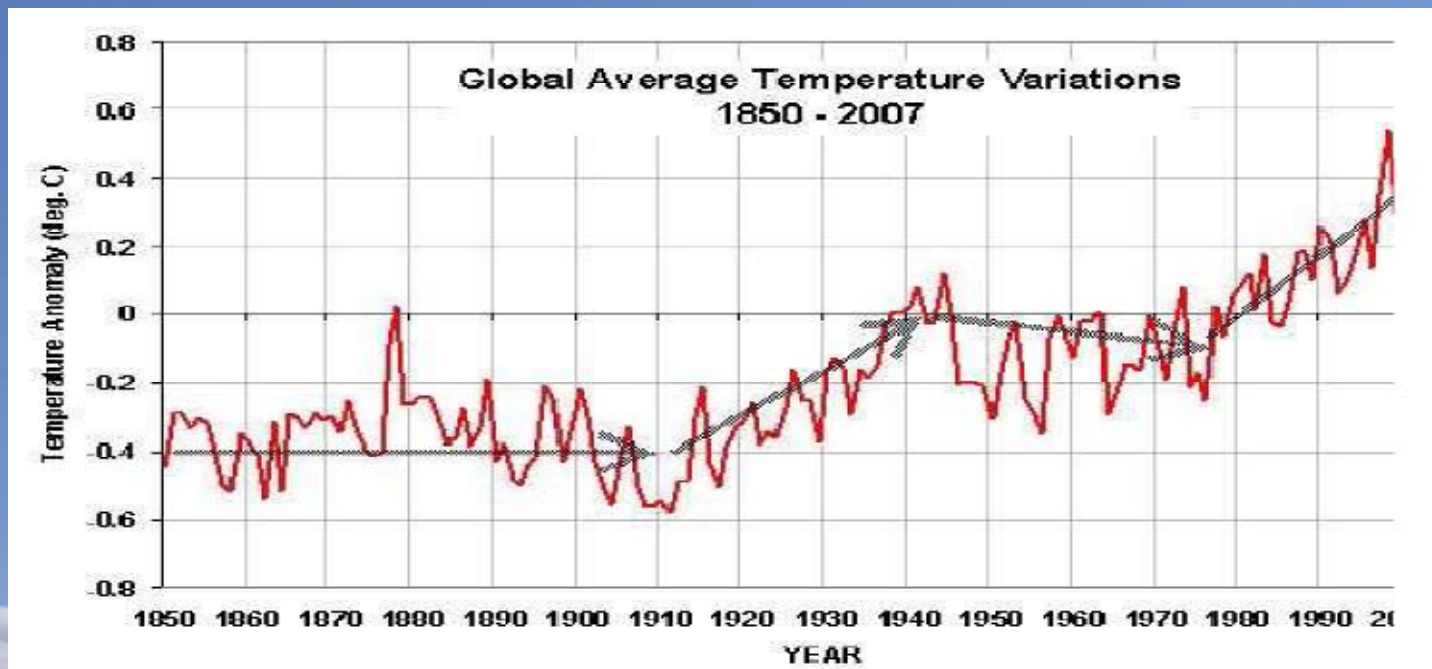
Historical Evidence – The Last 1,000 years



Medieval warm period? Yes. This drawing of a graph in the IPCC's 1990 report shows it clearly.

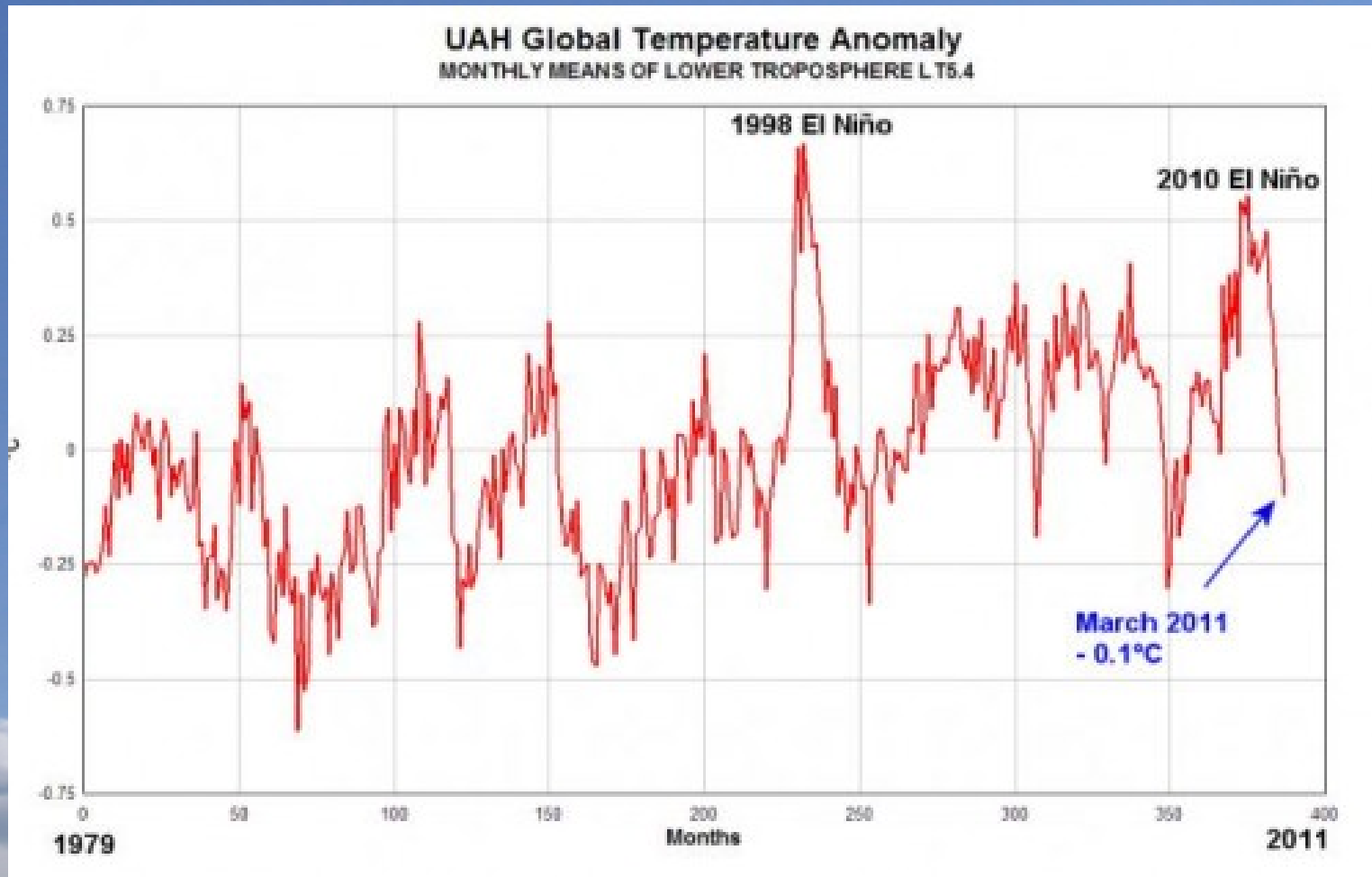
'Industrial Age': 1850 - present

Globally averaged temperature variations between 1850 and 2000 show the emergence from the "Little Ice Age" in the early 1900's, slight cooling in the 1940's to the 1970's, and then warming again since the 1970's, followed by cooling since 1998.

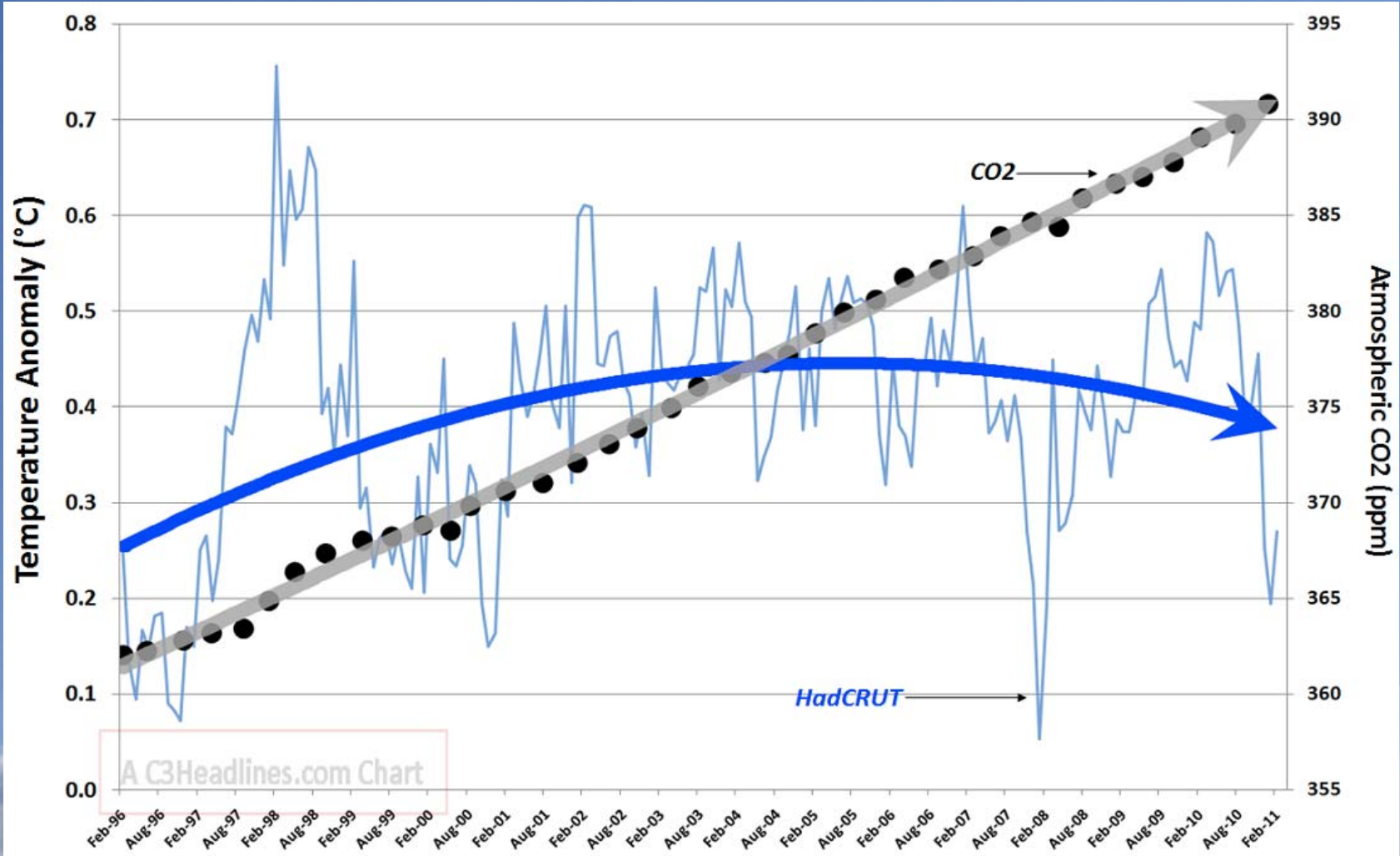


Satellite Measurements:

1979 - 2011



No recent correlation between rising CO₂ and slightly cooling temperature



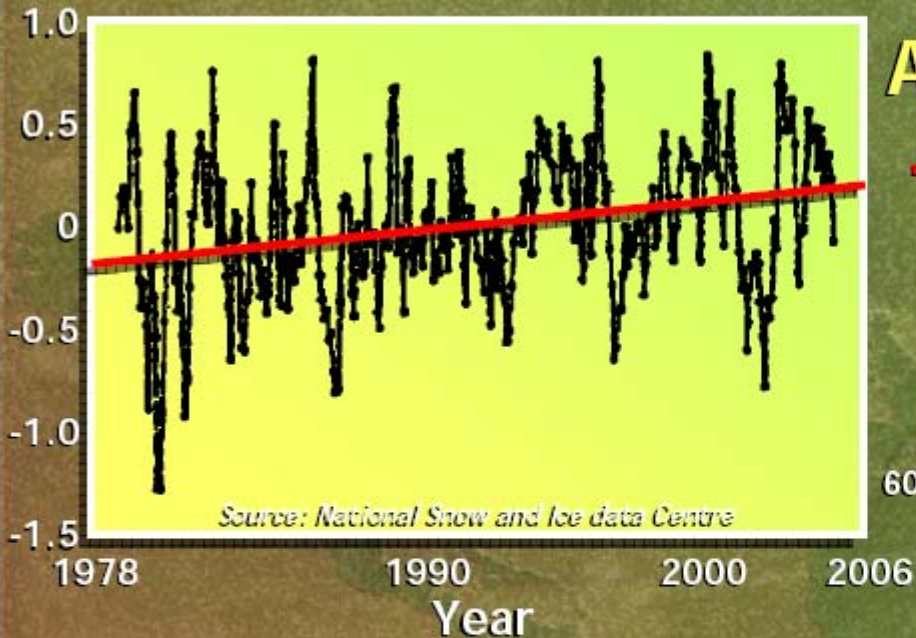
Exactly what “climate change”?

- ⇒ *Global temperature has gently declined over the past decade.*
- ⇒ *Both polar ice caps are currently increasing.*
- ⇒ *Sea levels continue the same gentle minuscule rise.*
- ⇒ *Cyclones/hurricanes are the same as ever.*
- ⇒ *The Murray-Darling basin is awash.*
- ⇒ *The Great Barrier Reef is thriving.*
- ⇒ *Bountiful Snowy Mountains ski season, etc., etc...*

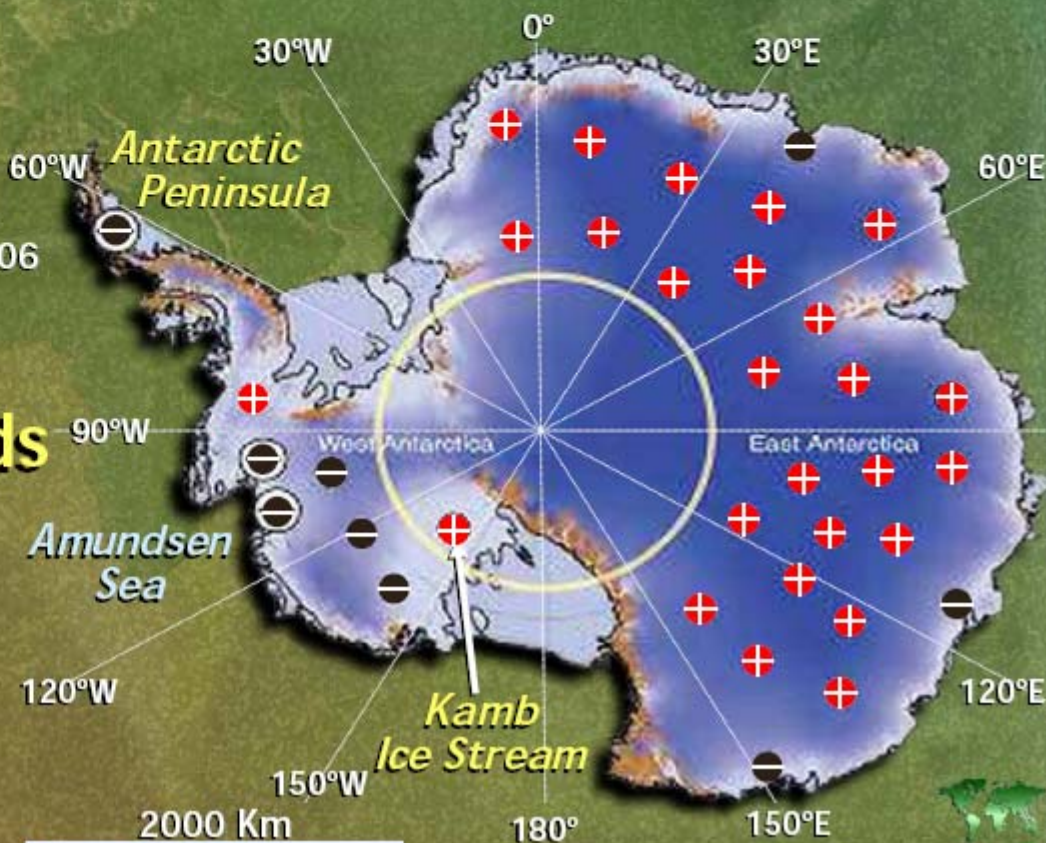
**So the rhetorical language has changed:
what was once ‘global warming’ and then ‘climate
change’, has become ‘pollution’, ‘price on carbon’,
‘energy security’ and ‘green jobs’ in the ‘green
economy’.**



Is global warming melting the ice caps and reducing sea ice? **NO!**

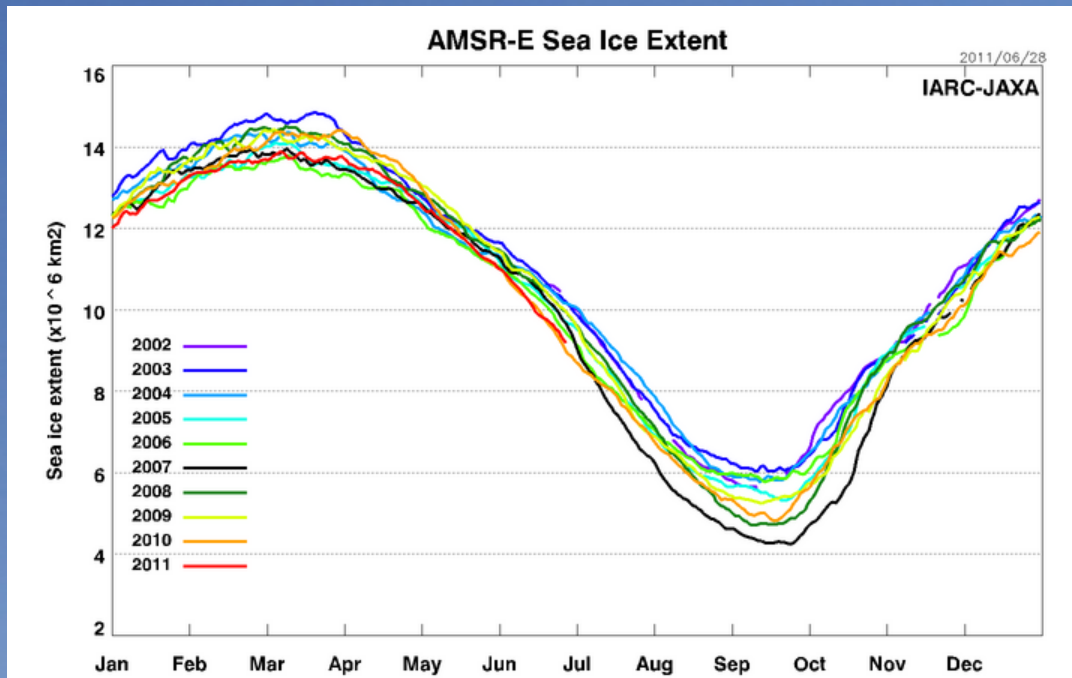


Antarctic Sea Ice Trends
.... going up!



Antarctic Land Ice Trends
.... going up over most of the continent!

Didn't Al Gore say the Arctic Ice will be gone by 2012?

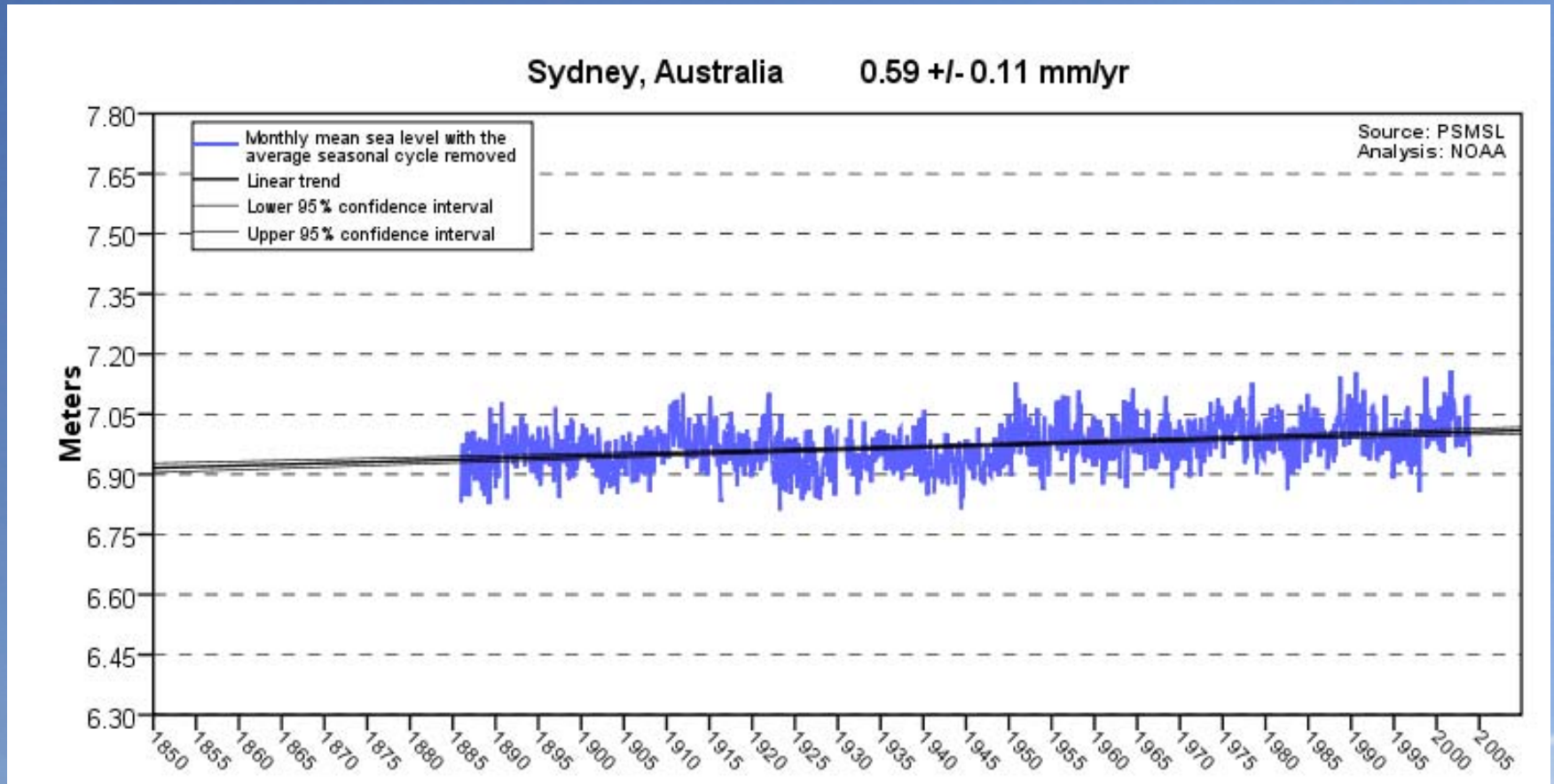


The graph of Arctic Ice cover of the last seven years, shows 2007 as the year with the least ice cover since satellites have been used (in 1979 they started)

In 2007 some people made a guess that the warming trend would continue. Al Gore and others have repeated that guess. Since then the arctic ice cover has increased.

- Anecdotal evidence shows there were periods when ice cover was less than in 2007, (e.g. ships in the 1930's navigated the north west passage without the assistance of ice breakers or GPS tracking of ice floes), so there is nothing unusual about the levels of Arctic Ice we have today
- Arctic polar bear population has increased from 5,000 50 years ago to 25,000 today.

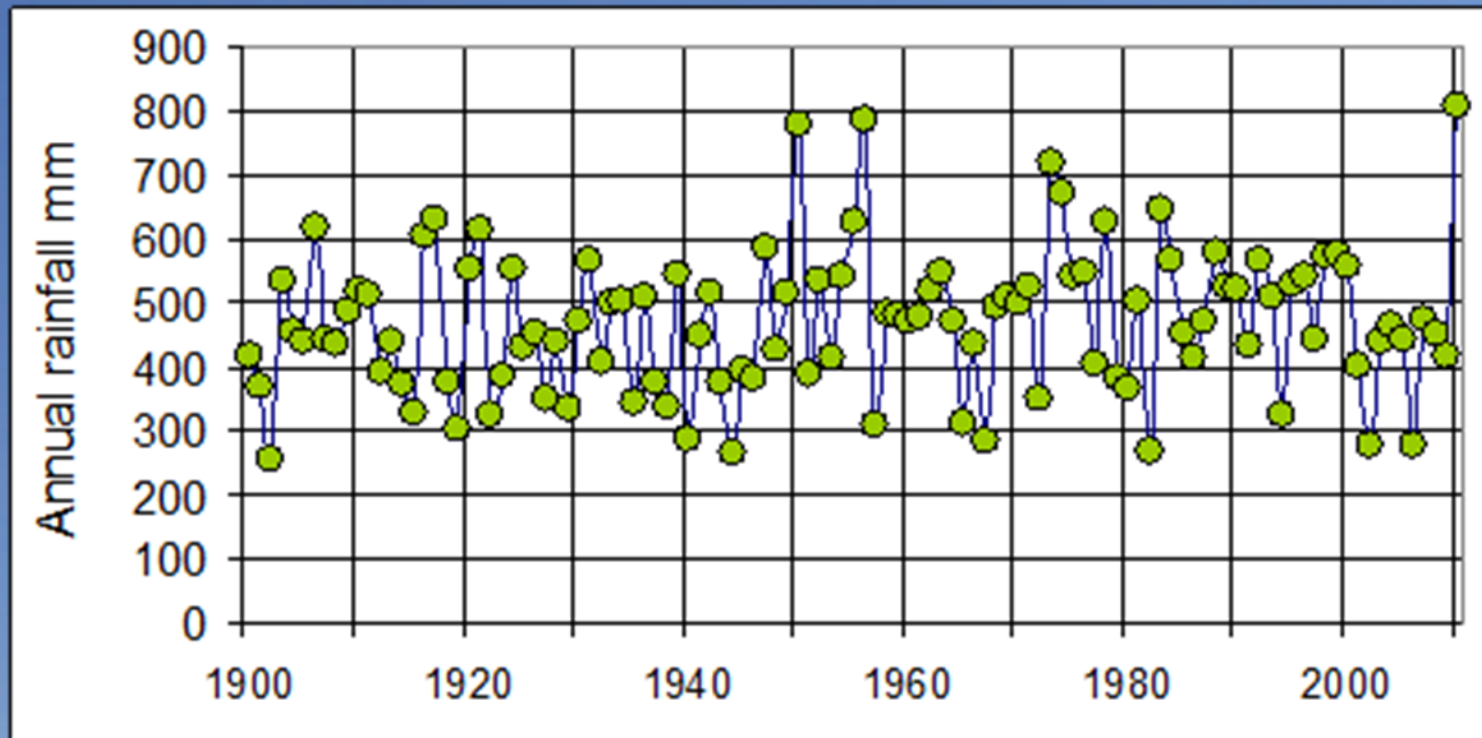
Sydney Harbour will rise the length of your little finger (6cm) this 21st century, just as it did last century.



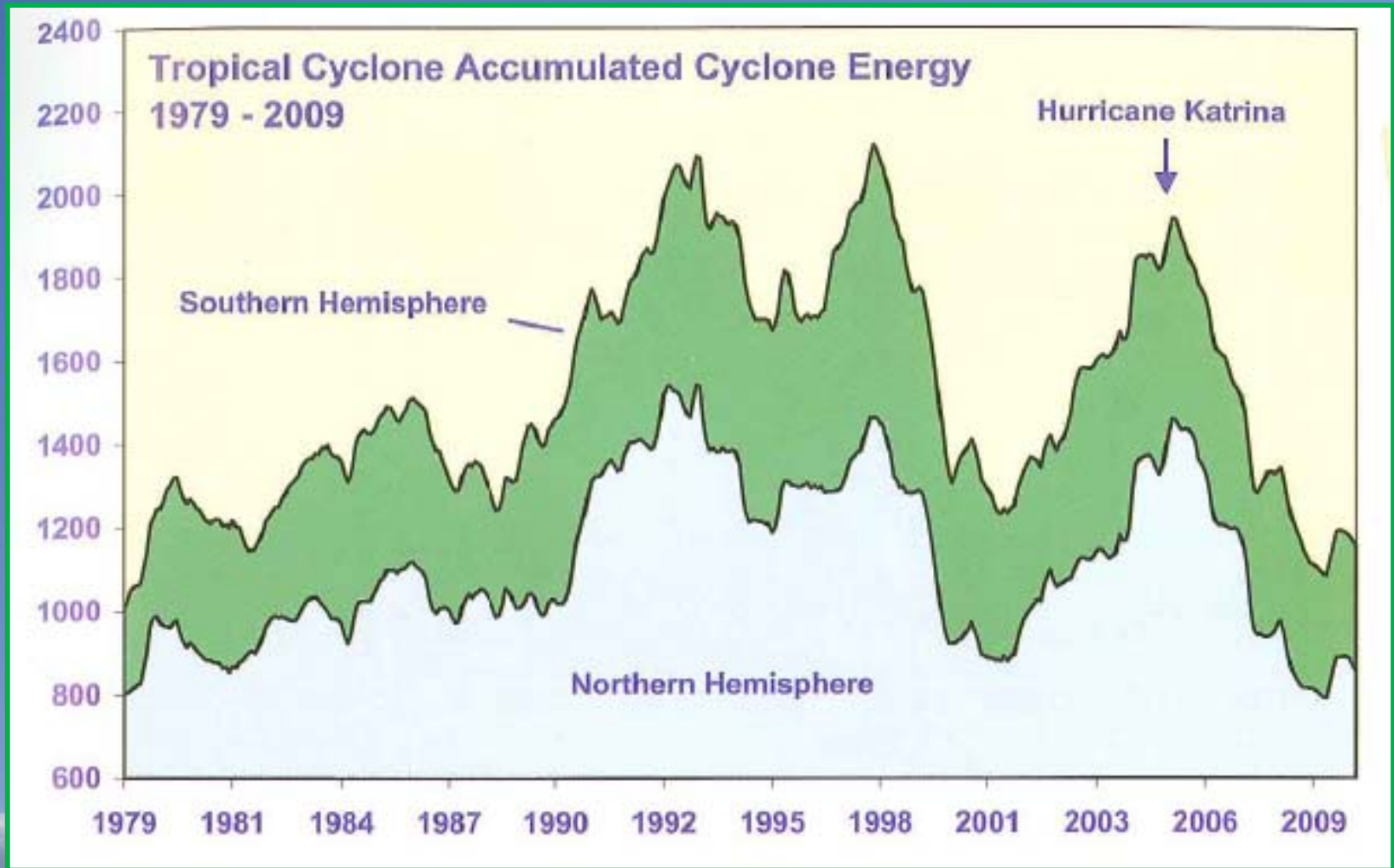
Sea level measurements at Fort Denison

Murray-Darling Basin Yearly Rainfall

1900 TO 2010



Are cyclones increasing? No!



Everything presented so far has been indisputable empirically observed data.



Global warming advocates have no choice but to agree, even if they are reluctant to be open with us all on these matters.

The difference comes when computer modelling the future: "rubbish in, rubbish out"!

"People underestimate the power of models. Observational evidence is not very useful. Our approach is not entirely empirical."

John Mitchell, principal research scientist at the UK Met Office

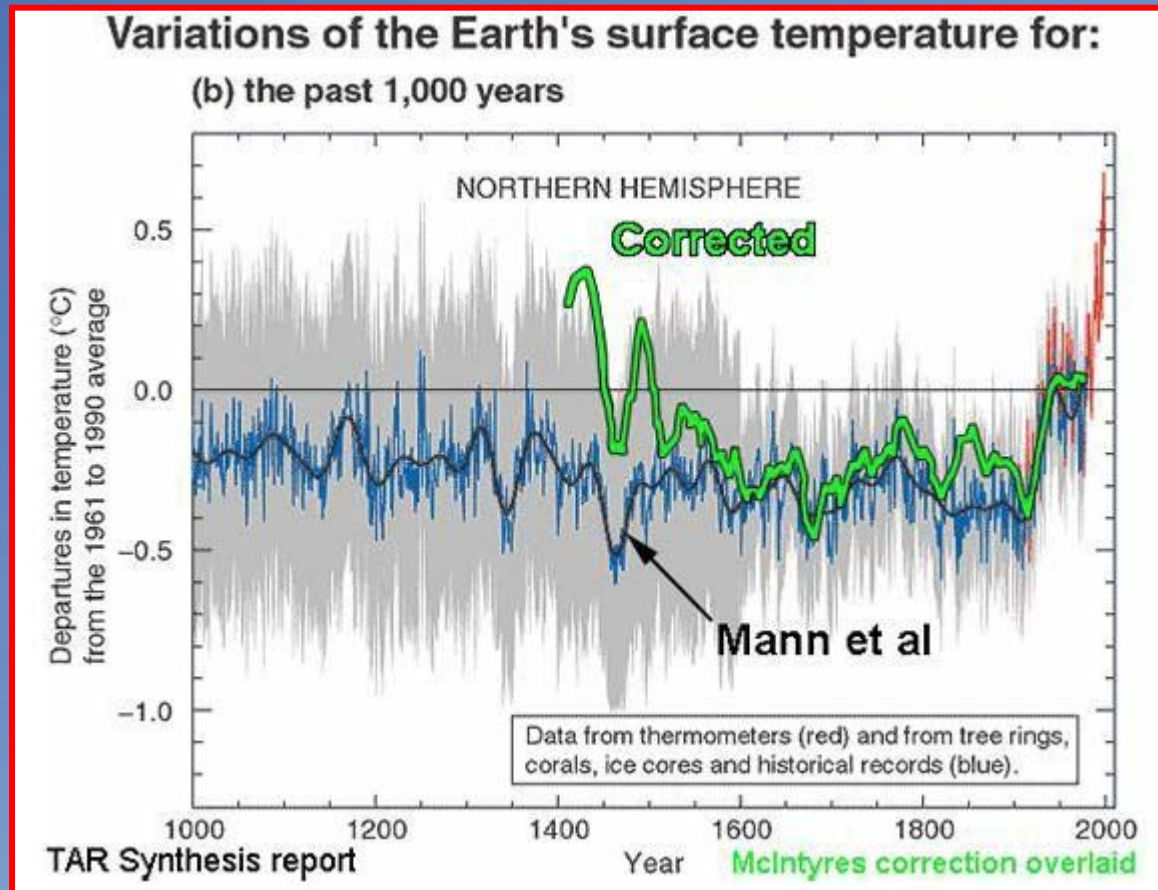
No computer model has ever successfully predicted future global temperature. The inputs are too many, too complex and often unknown.

The IPCC's bogus computer models

- ⇒ Intergovernmental Panel on Climate Change set up in 1988 under UN auspices
- ⇒ Does not carry out research or monitor climate
- ⇒ Assimilates available information to inform governments of the world via computerized projections
- ⇒ Global quasi-monopoly of official scientific advice
- ⇒ Has mutated into a politically correct alarmist pressure group
- ⇒ Notorious “hockey stick” quietly dropped from latest 2007 Report
- ⇒ Joint winner with Al Gore of the Nobel Peace Prize!
“If the IPCC wasn’t there, why would anyone be worried about climate change?”

Rajendra Pachauri, Chairman of the UN Intergovernmental Panel on Climate Change, Science, February 5, 2010

The IPCC's "Hockey Stick"



An exposed scientific fraud knowingly mis-used by Al Gore in his movie "An Inconvenient Truth". What an ironic name!

Why did so many scientists get it wrong?

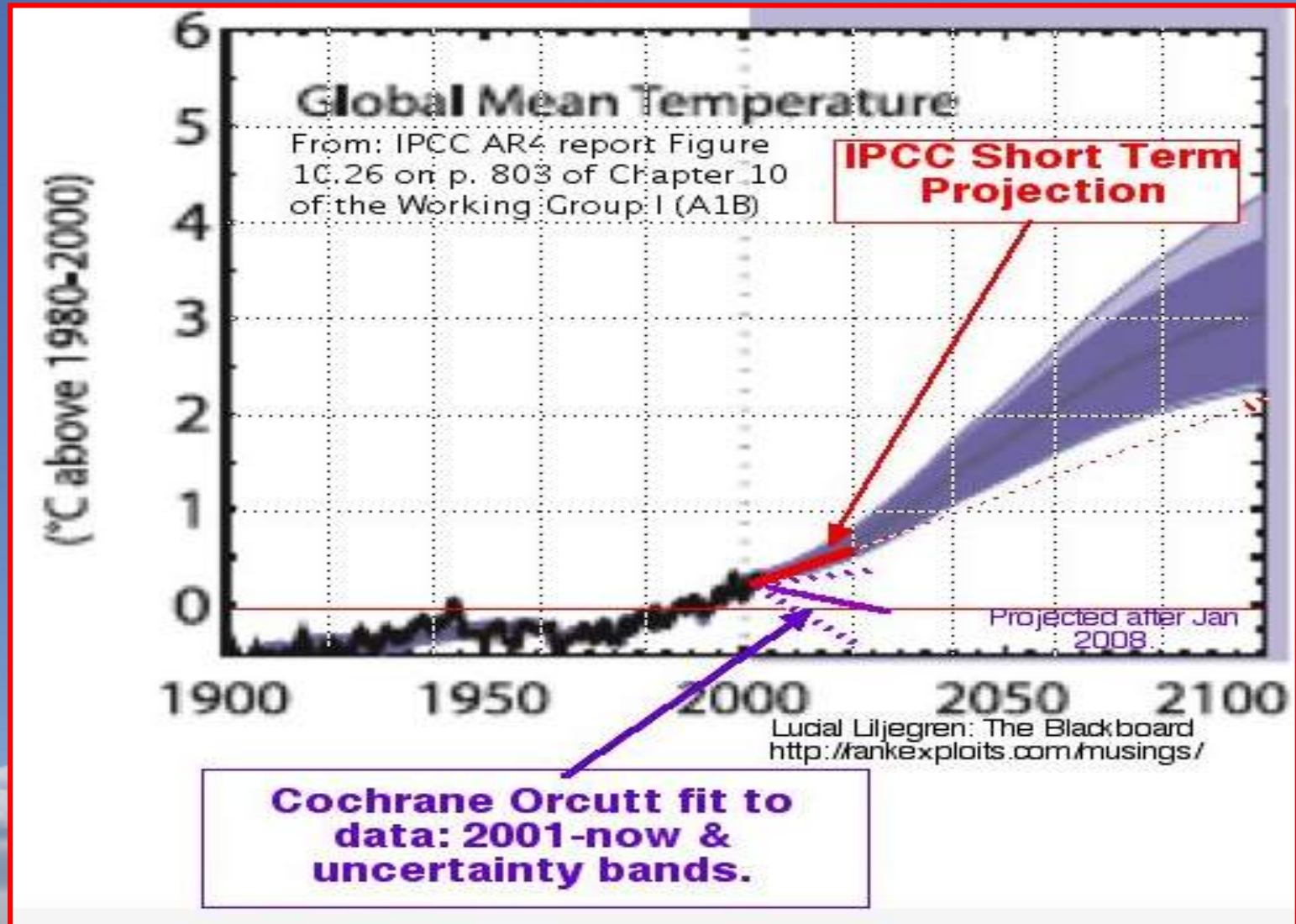


Climategate breaks on 20
November 2009

The emails have discredited
most of the lead IPCC
authors.

Recommended reading: “Climategate Analysis” by John Costella

The IPCC models predict monotonic warming, but they are already wrong!



Leading Global Warming Alarmists

International – Al Gore/IPCC (Joint Nobel Peace Prizewinners). Sir Nicholas Stern (Author of the U.K. Government's Stern Review).

Australian Politicians – All of the ALP (Julia Gillard, Kevin Rudd, Penny Wong, Peter Garrett, Greg Combet, etc. but Martin Ferguson?), some Liberals (Malcolm Turnbull, etc.), all of the Greens (Bob Brown, Christine Milne, etc.). Independents? (Tony Windsor, Rob Oakeshott)

Australian Professionals (generally) – Government departments, academics, CSIRO, media (including ABC and Fairfax), 'green' industry corporates, financiers, lawyers and accountants, NGO's, etc.

Australian Government Appointees – Tim Flannery (2007 Australian of the Year. Author of "The Weather Makers". Australia's Climate Change Commissioner). Ross Garnaut (Author of the Australian Government's Climate Change Report).

Leading Global Warming Sceptics

Politicians

Former ALP ministers (Peter Walsh, Michael Costa, etc.), most Liberals (Tony Abbott, Nick Minchin, Cory Bernardi, Dennis Jensen, Andrew Robb, etc.), all Nationals (including Barnaby Joyce, Ron Boswell, John Williams, etc.), Independents? (Bob Katter)

Scientists

Bob Carter, Ian Plimer, Bill Kininmoth, David Evans, Garth Paltridge, Jennifer Marohasy, Joanne Nova, David Archibald

Lobbyists

Ray Evans (Lavoisier Group)
Viv Forbes (Carbon Sense Coalition)
Max Rheese (Australian Climate Science Coalition)
Leon Ashby (Climate Sceptics Party)

Journalists

Andrew Bolt, Miranda Devine, Terry McCrann, Christopher Pearson, Piers Akerman, Alan Jones, The Australian newspaper, talkback radio

Archbishops and Aristocrats!

Cardinal George Pell, Lord Monckton, Lord Nigel Lawson

The Labor/Green/Independent Government's Proposed “Carbon Tax”

- ⇒ Multi-billion dollar per annum carbon tax: i.e. “great big new tax on everything”! Who are the 1000 “big polluters”?
- ⇒ Creates massive distortions in our economy
- ⇒ Directly reduces international competitiveness
- ⇒ Produces grinding compliance costs and bureaucratic intervention to cushion adverse industry and household impacts for political expediency
- ⇒ Provides a bonanza for the financial and professional services, ‘green’ industries and government departments which will take commissions, fees, subsidies and taxes from the cash flow – bad luck for the productive sector, the taxpayer and the consumer!

But now, the “People’s Assembly” has been scrapped for a “Multi-Party Climate Change Committee”

Eligibility requires belief that “the science is settled” and that a “price on carbon” will “provide certainty” to business.

The only certain “price on carbon” is not to have one at all.

The Gillard/Brown Government's Climate Change Commission

“The Commission is an independent body set up by the federal government to provide information on climate change and help inform the debate”

- ABC Spokeswoman 30 April, 2011

In fact, the taxpayer-funded Commission is a biased propaganda machine comprised entirely of climate change alarmists trying to stifle one side of the debate.

Now the Government apparently needs taxpayers to fund a \$12 million advertising campaign to convince an increasingly dubious public.

“Business Certainty” ?

“If the policy doesn’t reduce carbon then it is purely a tax. The other problem is that under this policy, at any time in the future the government of the day can change the cost of carbon so there is no certainty for us to make investment decisions.”

- Paul O’Malley
Chief Executive Officer
Bluescope Steel

Political plain speak on the carbon tax

“The document obviously contemplates broad coverage of the economy but it also leaves open the discussion that we need to have about how that might be dealt with, whether or not we phase the scheme into different sectors of the economy but the important thing again is the PM acknowledged there are price impacts in the economy from a carbon price and also indicated, as you would expect from a Labor government, that we will assist those people who need the assistance the most, in particular obviously pensioners and low income households will be firmly in our mind and we will ensure that every dollar raised from the carbon price mechanism is committed to help households and to help industry make the transition to lower emissions in the future.”

- Greg Combet
Minister for Climate Change

There. Hopefully that's cleared things up!

20% Renewable Energy Target by 2020

- ⇒ Currently 7%
- ⇒ Most renewable energy is presently hydro (5% with little scope for increase) and 'bagasse' from sugarcane (1%)
- ⇒ Wind and solar (1%) do not produce baseload power (therefore require ~85% baseload back-up)
- ⇒ Baseload from geothermal 'hot rocks' difficult and isolated
- ⇒ Uranium (still ruled out politically in Australia)
- ⇒ Carbon Geo-Sequestration (expensive, non-uniform and unproven)

N.B. All of the above new technologies are much more expensive than coal-fired power. Therefore Australian electricity prices will continue to rocket upwards.

The Australian Newspaper - 30 August 2010

BUSINESS

WITH THE WALL STREET JOURNAL.

DOW JONES
10150.65 (+16484)

OIL \$US75.20
(+\$US2.21)

GROWING CONCERN

Leighton's Asian
bonanza (P22)



VALE OF TEARS

Aquila battles
mining giant
(P24)

ORIGIN ENERGY CHIEF CITES GOVERNMENT POLICY

Electricity prices set to soar

Renewable energy
targets could double
the cost for consumers

ANNABEL HEPWORTH
ELECTRICITY

THE chief executive of one of the country's biggest energy retailers has warned that power prices are set to increase dramatically.

Origin Energy boss Grant King said that complying with the mandatory renewable energy target (RET) and network spending would put upward pressure on energy prices.

"That's not of our making, or anybody other than policy-makers," Mr King told *The Australian*.

"That's just the inevitable and logical consequences of the policies that governments are implementing.

His comments follow both federal Resources and Energy Minister Martin Ferguson and his opposition counterpart Ian Macfarlane warning in separate interviews with this newspaper that power prices were likely to double in the next five to seven years.

Mr King said that estimate was "possibly conservative" and added that many consumers of utilities faced "a real come to Jesus moment" as suppliers were forced to re-price energy, water and other essential services.

The RET seeks to ensure that 20 per cent of Australia's energy consumption by 2020 is derived from renewable sources.

Wind farms would cost between \$100 and \$125 per megawatt hour, compared with \$30 to \$40 per MWh for coal.

Moreover, the intermittent nature of wind means that it would need to be backed up with big-ticket investment in gas turbine power plants.



Origin Energy chief executive Grant King has no plans to step aside from the helm of the electricity and gas provider

NSW Govt's Desalination Plant & Wind Farm: Combination of two White Elephants!



Aerial view of the \$2bn Kurnell Desalination Plant under construction while Sydney's dams fill up



Site visit to \$100m Capital Wind Farm near Lake George by Philip Wood on Sunday 11 April 2010



The financially embattled NSW Labor Government spent your money on scientifically illiterate scare mongering.

The threat of a carbon dioxide tax cost the NSW taxpayer \$10 billion in the sale of electricity generating assets.

Hilarious! – World Leaders meet to discuss controlling the climate



Copenhagen, December 2009

The hubris of a Greek tragedy

"Every great cause begins as a movement, becomes a business, and eventually degenerates into a racket."

-Eric Hoffer

(The True Believer: Thoughts on the Nature of Mass Movements)

"It is error alone which needs the support of government. Truth can stand by itself."

-Thomas Jefferson

The Spanish Experience in past 5 years

(similar climate and GDP to Australia)

- ⇒ Household electricity costs up 30%, despite government subsidy
- ⇒ Industry electricity costs up 100%
- ⇒ Businesses and jobs therefore leaving Spain
- ⇒ Unemployment 20% and rising
- ⇒ Every 'green job' costs the taxpayer US\$770,000
- ⇒ 2.2 real jobs lost for every 'green job' created
- ⇒ Lack of baseload power means electricity supply has become unreliable
- ⇒ This is the Spanish example advocated by the Obama Administration!
- ⇒ Spanish Government is now withholding subsidies because it can't afford them.
- ⇒ Click on: <http://www.juandemariana.org/pdf/090327-employment-public-aid-renewable.pdf>



Will 2020 be
like the Little Ice Age?



..... Or, instead, the
Mediaeval Warm Period?

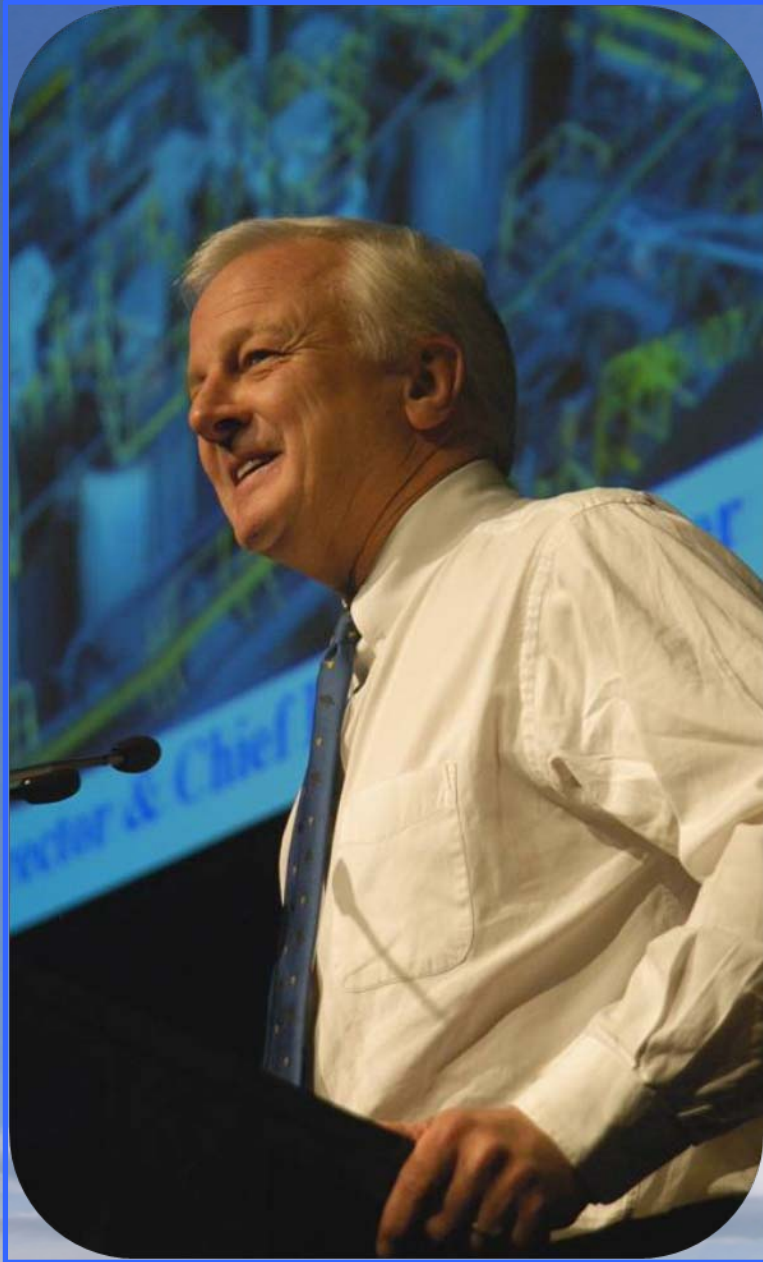
- No-one knows!
- We need to prepare for either
- The IPCC's plan hasn't worked, won't work and can't work.

What should we do?

Let us...

...appreciate and trust Nature's wondrous dynamic environment and cease our climate fear.

Instead, we will focus our creativity, energy and resources on the timeless challenge of adapting to natural changes in our climate and on eliminating *real* manmade pollution to express our inherent care for the Earth.



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