

Critical Analysis of State of the Environment 2021

Australia

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<https://soe.dcceew.gov.au/>

<https://soe.dcceew.gov.au/sites/default/files/2022-07/soe2021-overview.pdf>

Brendan Godwin

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It was a wise move to choose that disclaimer. Efforts to ensure the contents were factually correct were flimsy at best. Although the government has stated the views are those of the authors and not the governments', the government has accepted the report. The authors' views were clearly politically motivated.

The report is not based on science or the scientific method. Many reference papers were referred to but these were largely confirmation bias pal (not peer) reviewed and were of little value.

On page 18 under Outlooks and Impacts, the World Economic Forum or WEF were used as a scientific reference. The WEF are a private body with an agenda to convert the world into a global socialist/communist state under their **Great Reset** agenda. No proper scientist anywhere in the world would use the WEF as any sort of a reference. They are a political reference.

The report starts with an acknowledgment to traditional owners of the land. This is an extremely racist and divisive statement. It is an acknowledgement that Australians don't own the land and are essentially ceding sovereignty back to a fictitious group of people. Australia belongs to everyone. No one is above anyone

else based on their race. This statement makes the report a racist and divisive report. It has no basis in science and no scientific document should contain such a statement.

This review is largely focused on “Climate” under the Environment section and “Climate change and extreme events” under the section on Pressures. Most of the balance of the report is focused on management of various resources based on the findings of these concepts.

The authors claim to be independent and the report being evidenced-based. That statement is extremely difficult to justify.

Climate

Australia’s climate, along with the global climate, is changing as a result of human induced climate change

or HICC. This is then referenced to the chapter on *Climate change and extreme events*.

This statement is not based on any evidence.

HICC, also known as Global Warming, Climate Change, Catastrophic Anthropogenic Global Warming – CAGW and the Greenhouse Effect – GHE, is a theory that has no scientific basis. The theory has never been scientifically proven. There are zero scientific papers in the empirical records that show, from observations based on experiment, that CO₂ causes warming. Let alone just the 4% of CO₂ emissions that come from humans, the rest coming from nature, mostly outgassing from the oceans.¹ No one has ever measured this mythical warming of the Earth from InfraRed radiation coming from atmospheric CO₂ molecules. If the authors were to pull such a scientific paper out of the hat, they would then need to produce another scientific paper that shows it is just the 4% of human emissions that is causing warming and the 96% coming from nature is not causing warming. An impossibility. Even the IPCC admit they cannot prove their theory.²

There is just one scientific paper in the empirical records where scientists have attempted to measure this mythical warming, *Wong & Minnett 2018*,³ and they measured zero degrees of warming.

The report starts with a presumption that is founded on a lie, a deliberate lie, and the rest of the report is based on this false and unproven assumption.

Assessments

The following assessments have been made on various aspects of findings in the report.

Assessment ratings
For assessments in the 'Environment' section
 **Very good:** The environment is in very good condition, resulting in enhanced environmental values.
 **Good:** The environment is in good condition, resulting in stable environmental values.
 **Poor:** The environment is in poor condition, and environmental values are somewhat or slowly declining.
 **Very poor:** The environment is in very poor condition, and environmental values are substantially and/or rapidly declining.

Trend
 **Improving:** The situation has improved since the previous assessment (2016 state of the environment report).
 **Stable:** The situation has been stable since the previous assessment.
 **Deteriorating:** The situation has deteriorated since the previous assessment.
 **Unclear:** It is unclear how the situation has changed since the previous assessment.

Most of these are rated “Poor”. These are arbitrarily assigned by humans and have no scientific basis. They are political opinions, not assessments. They provide no scientific value to the report and have little to no value at all.

This section on “Climate” is a summary of and hinges on the section ‘Climate change and extreme events’.

Climate change and extreme events

This section refers to “climate change”, “greenhouse gases” but is mostly all about extreme weather events. One searches through the document for a definition of “climate change” and none exists. It’s definition is assumed.

The nature and concentrations of future global emissions (of greenhouses gases) will have a major effect on the trajectory of climate change in the second half of the 21st century

There is no definition of “emissions” and it is assumed they are carbon dioxide emissions. There is no definition of “greenhouse gases” and an assumption they cause some sort of a change to the climate. And of course the “major effect” will be long after these authors are dead and buried. The lack of definitions makes this a very unprofessionally prepared document.

Greenhouse gas emissions

Warming of the Australian climate, and associated changes in the climate system, are driven by increased concentrations of greenhouse gases in the atmosphere”

Zero references were provided for this statement. That is understandable because it is a statement of mere words and no such references exist in the empirical records. It is a statement which the authors are unable to prove.

“Globally, atmospheric concentrations of greenhouse gases continue to increase, driving climate change, warming on land and in the oceans, and, in turn, rises in sea levels as warmer water expands and polar ice caps melt.”

That is a conglomeration of statements all of which are false. Once again a bland statement with no references. At least there is an admission that sea level rises are partially driven by the expansion of warming waters.

Firstly there is no such thing as greenhouse gases. The greenhouse effect or GHE theory does not exist in the real world.⁴ Radiation provides zero heat to a greenhouse. This was proved by the Woods Experiment in 1909 and replicated by Nasif Nahle in 2011.⁵ In the same way, radiation provides zero heat to the Earth or it’s atmosphere.

It is said that the GHE theory warms the oceans. That is impossible.⁶

Sea levels are not rising anything out of the ordinary.⁷ Fort Dennison in Sydney Harbour has risen the width of a match box in the last 100 years.

SCARY SEA LEVEL RISE ON SYDNEY HARBOUR



Fort Denison c.1885



Fort Denison c.1930



Fort Denison c.2016

Sea Level rise (1886-2010) 0.65mm/year = 6.5cm (2.5")/Century

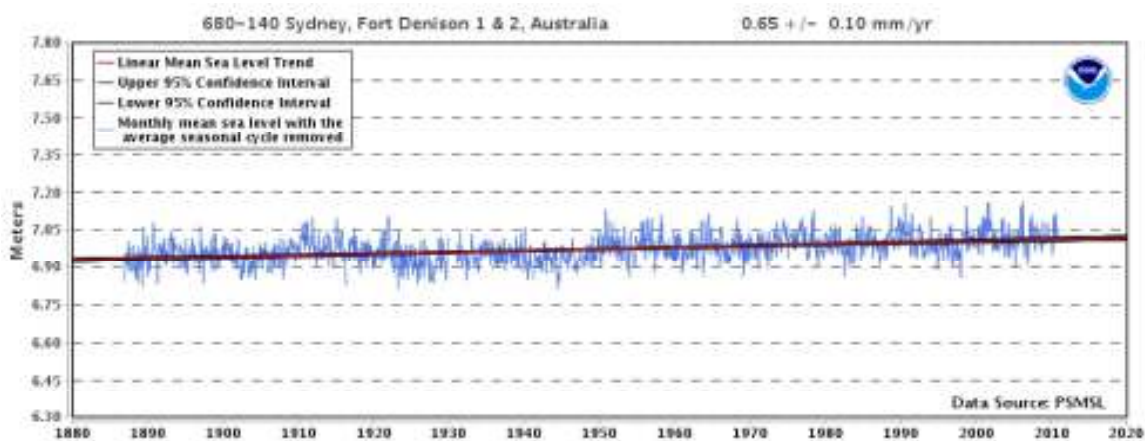
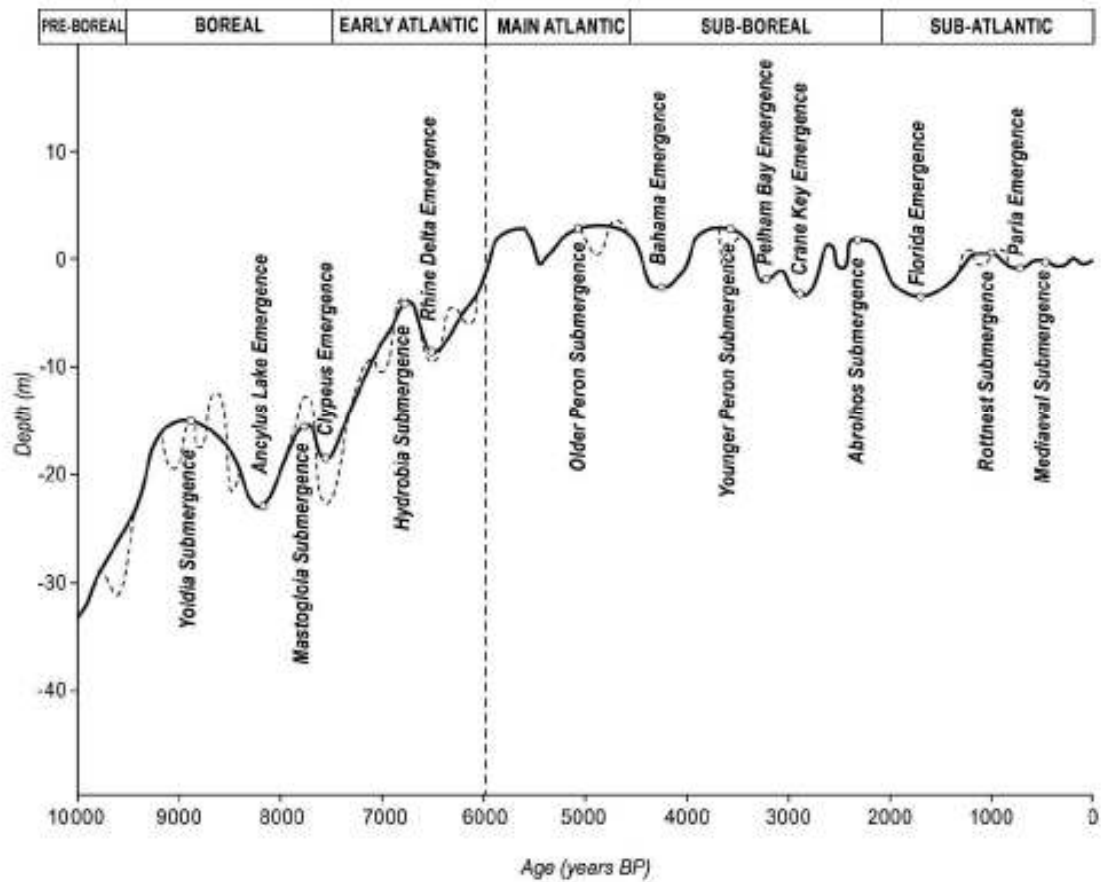


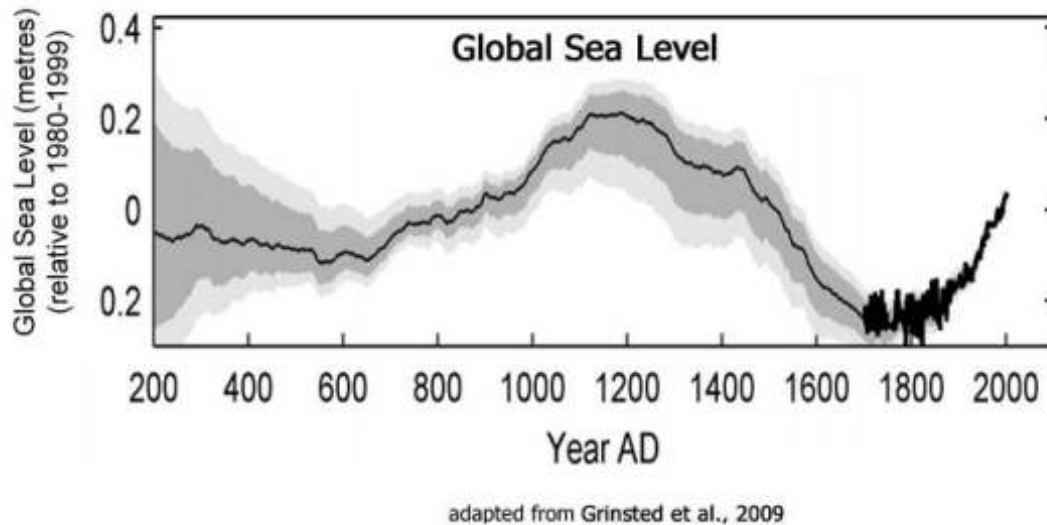
Figure 11: Sea level data combined from two stations on Fort Denison, 1886-2007; the linear regression is given as 0.65 ± 0.10 mm per year (Watson 2011)

Sea levels rose approximately 120 to 150 metres at the end of the last ice age approximately 12,000 years ago. They have been stable for the last 6,000 years rising up and down with Grand Solar Cycles trending slightly down.

Sea-Level changes since the last Ice Age



They rose during the Roman Warm Period then fell during the Little Ice Age. They have been rising since as we rise over the Modern Warm Period. This rise is because of thermal expansion of the oceans.



As we pass over this *Grand Maxima* they will start to fall again.

There is nothing unusual happening with sea levels.

Polar ice caps are not melting. This will be covered under the section on Antarctica.

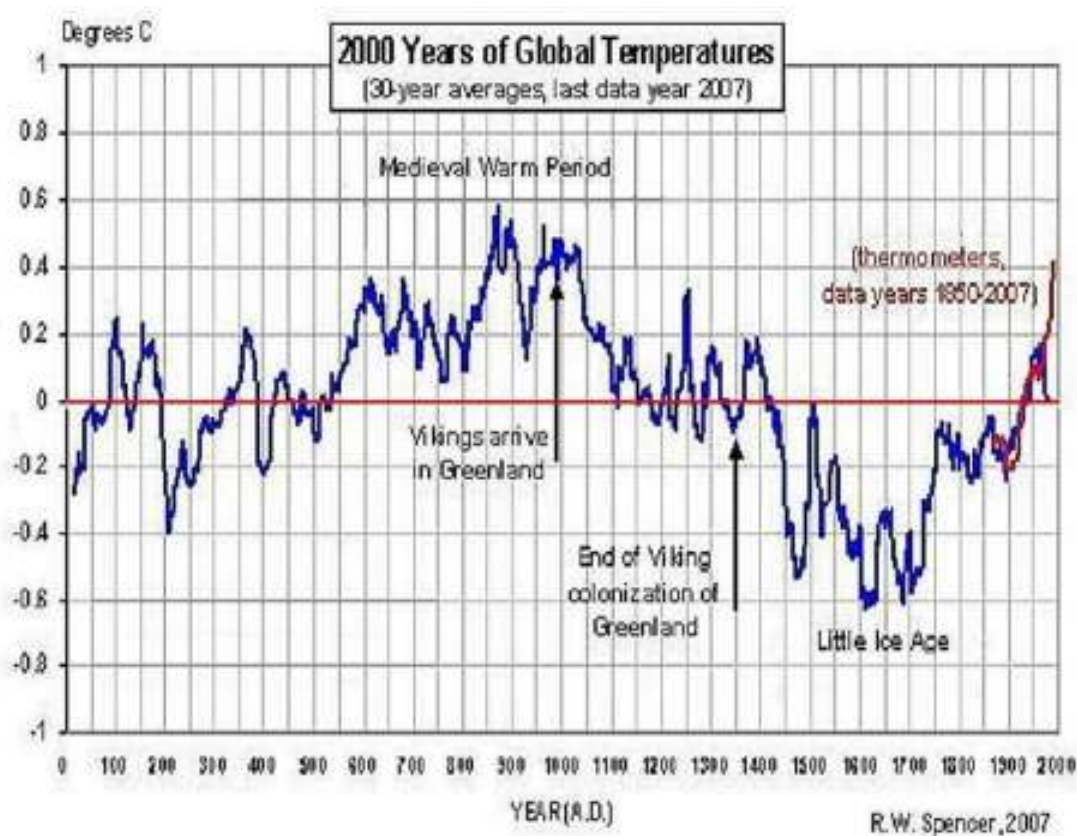
The report then goes on to quote from the Global Carbon Project 2019 which is *Global Carbon Budget 2019*.⁸ This was first published by *Houghton et al; 1983* on land use changes. In 1983 he used a global carbon budget, most probably the 1st version. We are now up to the 14th. There is very little difference between version 1 and version 14. The main change seems to be changing lead authors which appears nothing more than a sharing arrangement. The current version since 2019 is Friedlingstein et al. There are 68 authors to this paper and is one of the biggest waste of tax payers money in the history of science. Refer to a critical analysis of this Global Carbon Budget⁹ which is *Quéré et al., 2016*¹⁰ the *Global Carbon Project 2016*.

This budget is based on assumptions, guesses, estimates and models based on false assumptions. They base their study on a global CO₂ budget in Fig 2 that only accounts for human emissions and the ocean are only a sink. There is no allowance for anything natural, particularly there is no allowance for emissions from the oceans that account for the vast majority of the 96% of total natural emissions.¹¹ Rotting vegetation in the biosphere also emits CO₂ naturally. It is assumed from the outset that human emissions constitute all emissions.

There is nothing useful that can be gained from this report.

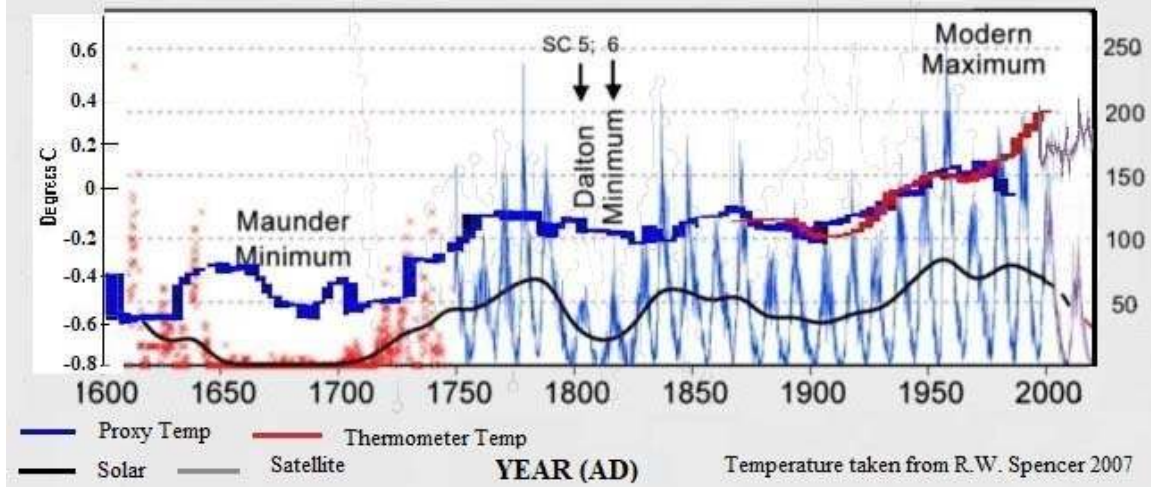
The Australian climate has warmed by a mean of 1.4 °C on land and 1.1 °C in the oceans since consistent national records began. . . . The decade from 2011 to 2020 was Australia's warmest on record,

This is nothing more than alarmist rhetoric. “warmest on record” Official Australian Bureau of Meteorology or BOM records began in 1911 when BOM began, even though there are good records going back to the 1820s. There is nothing unusual about a 1.4°C temperature rise over the course of a century. The global and Australian temperatures have been rising for the past 370 years since the Little Ice Age - LIA began in 1650.



This temperature rise is 100% natural and driven by Grand Solar Cycles.¹²

400 Years of Sunspot Observations



The LIA was a *Grand Minima* and we are currently rising over the top of a *Grand Maxima*. This current *Grand Maxima* is the strongest in 9,000 years.

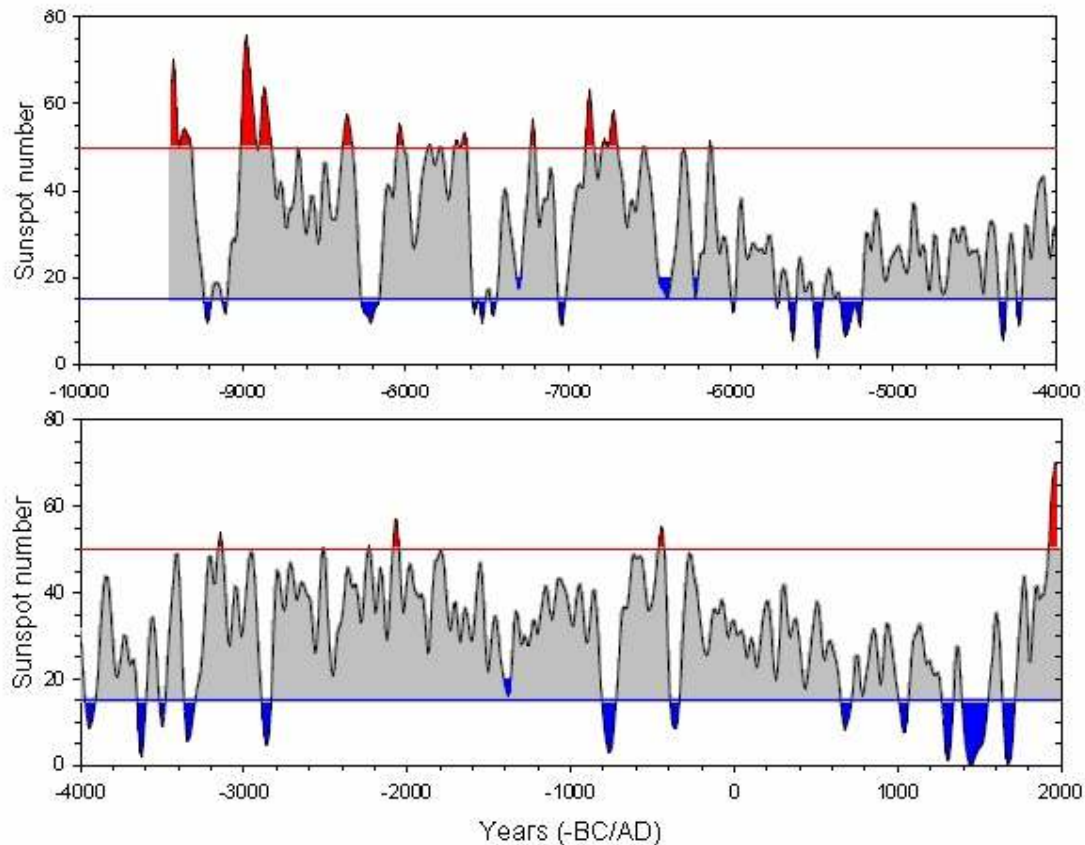


Fig. 3. Sunspot activity SN-L throughout the Holocene (see text) smoothed with a 1-2-2-2-1 filter. Blue and red areas denote grand minima and maxima, respectively. The entire series is spread over two panels for better visibility.

Grand Minima and Maxima of solar activity: New observational constraints

Usoskin et al 2007

<https://www.researchgate.net/publication/1892856>

Grand Minima and Maxima of solar activity New observational constraints

Sitting on top of this *Grand Maxima* is two El Nino spikes, one of them a full 1.0°C. So when the authors state Australia *has warmed by a mean of 1.4°C*, 1.0°C of that 1.4°C is an El Nino. El Ninos are natural events caused most likely by under sea volcanoes.

The global temperature warmed from around 1970 to 1998 and has gone sideways since.

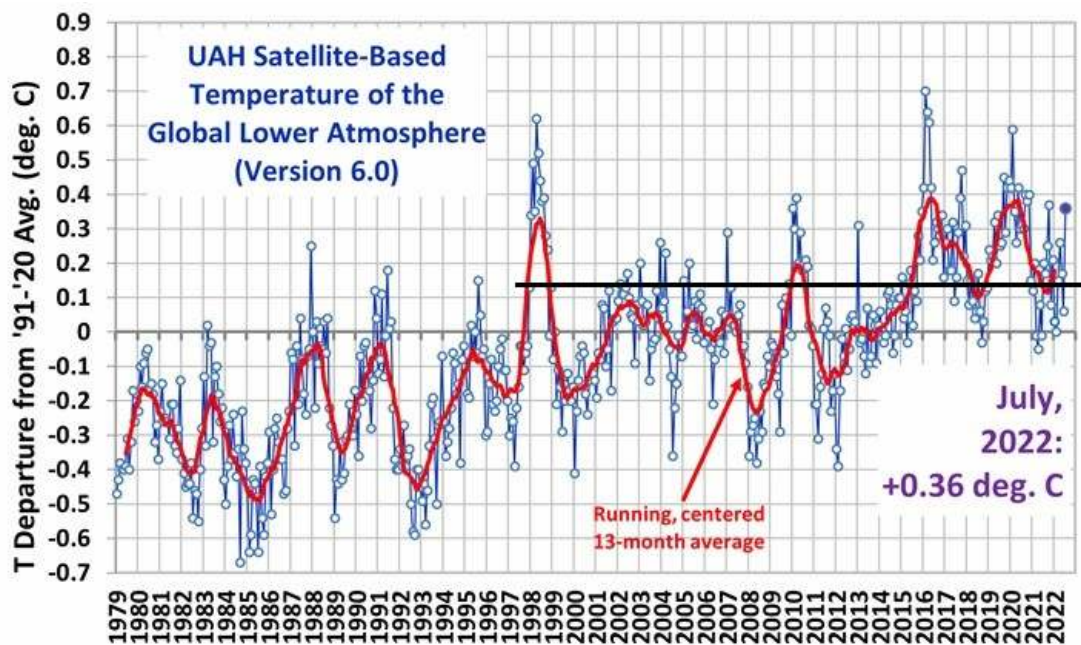


Chart courtesy of <https://www.drroyspencer.com/>

Ocean acidification

This is one of the most misleading alarmist statements that we hear frequently. The oceans are not acidic. They are alkaline. Alkalinity has dropped slightly but is nowhere near acidic and never will be. This is nothing more than hyperbole rhetoric and has no scientific foundation.

Extreme events

Modelling based on historical and archaeological events and climate scenarios suggests that many extreme events will increase in intensity and frequency, with a potential expansion in their distribution, changes in their duration, and increasing complexity of linked impacts.

weather events suggests that the risk of most observed extreme heat and cold events has been significantly altered by climate Research into the relationship between human-induced climate change and extreme change.

It is impossible to prove that a non proven theory can cause anything, let alone extreme weather. The only way to prove that extreme weather events are caused by the climate change/global warming/HICC/CAGW – Catastrophic Anthropogenic Global Warming/GHE theory is to prove the theory first. Only then

can you even start to look into whether the theory is causing extreme weather events.

As shown herein, that theory has never been scientifically proven and never will be.

So what do you do when the data doesn't fit your theory? You create models. These are computer programs and nothing more than mathematical illusions. They take in all the data that doesn't work and can't be proven, manipulate it and the model spits out a result that shows the theory works. Magic. These models are all built on false assumptions. The computer is programmed to give a pre-determined result.

There is a lot of very complicated and intricate science that goes into these models. But it is all computer and mathematical science. There is ZERO climate science in any of these models.

There is no science that shows and proves these extreme weather events are caused by a non proven theory.

This entire chapter on Extreme events is fictional and requires very little in the way of comment. This includes drought, floods, bushfires, storms, cyclones & rainfall. But some points do need to be commented on.

in Victoria, the average number of days per year on which the temperature has reached 45 °C increased from 0.3 in 1961–2000 to 2.6 in 2011–20.

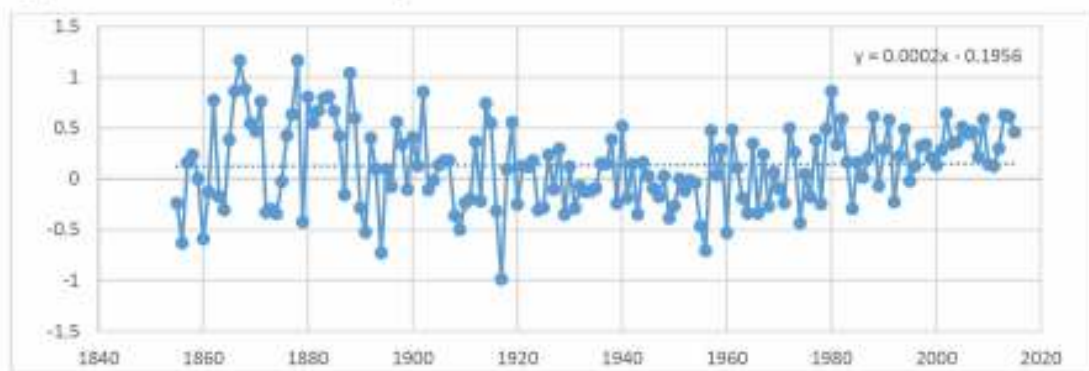
This is just cherry picking of data.

Australia has not warmed from 2012 to 2020.¹³



In fact Australia's temperature has not risen in 150 years.¹⁴

Figure 1. GHCN-Heller Australian temperature reconstruction 1855-2015



Tony Heller took the raw data for Australia from the GHCN or Global Historical Climatology Network database and reproduced this chart.

Heatwaves cause more human deaths in Australia than any other single extreme weather event

Cold kills more people than Heat.¹⁵

Based on a study of *more than 74 million cases* by Gasparrini et al. (2015), cold, not heat, is by far the greater killer of humanity. As per that study,

cool and **cold weather kills about 20 times as many people as warm and hot weather. Excess Winter Deaths**, defined as more deaths in the four winter months than equivalent non-winter months, **total over two million souls per year**, in both cold and warm climates.

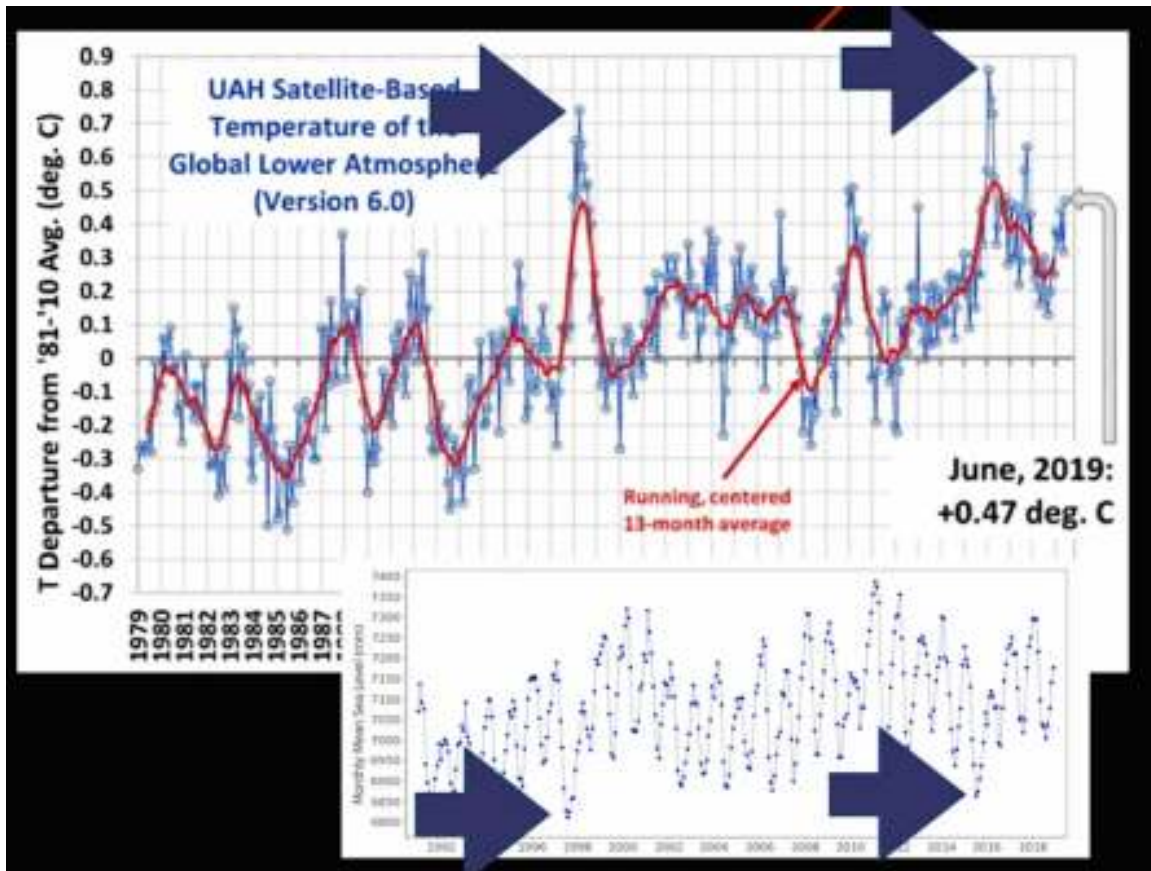
A more recent study of regional scope by Gasparrini et al. (2022), focusing on temperature-related mortality risks in England and Wales demonstrates that “*there was on average 791 excess deaths (empirical 95% CI 611–957) attributable to heat and 60 573 (55 796–65 145) attributable to cold, corresponding to standardized excess mortality rates of 1.57 deaths (empirical 95% CI 1.21–1.90) per 100 000 person-years for heat and 122.34 deaths (112.90–131.52) per 100 000 person-years for cold.*”, thus showing that **cold kills 78 times more than heat (112.90/1.57) under this specific British climate.**

See also this Lancet study plus several other studies.¹⁶ The current modern warm period has saved many many more people from cold related deaths than deaths that have occurred as a result of the warmth.

Marine heatwaves were recorded on the Great Barrier Reef in 2015–16, 2016–17 and 2020, and were accompanied by significant coral bleaching events (BOM 2020d).

These heat waves were caused by El Ninos which are natural events related more to undersea volcanoes. It is said that high water temperatures cause coral bleaching. This is an assumption, a theory based on correlations. But it is not the only theory that has correlations.

During El Nino events, Western Pacific sea levels drop and Eastern Pacific sea levels rise. With every El Nino Great Barrier Reef - GBR sea levels drop and there are bleaching events each time.



Slide taken from a presentation conducted in approximately July 2019 by Dr Jennifer Marohasy at the Maroochydore Surf Life Saving Club.¹⁷

El Niño

- Instrumental record going back to 1876
- Measured by change in atmospheric pressures between Tahiti and Darwin (SOI)
- Correlates with shift of warm water in western Pacific (along east coast of Australia) east
- High sea levels in east, lower sea levels western Pacific
- Super El Nino 2015/2016,

Dr Jennifer Marohasy has conducted extensive aerial drone and underwater surveys of the GBR.¹⁸ She reports that the reefs effected by the 2016 bleaching events are now largely recovered. Corals are resilient and adapt to changing weather events well.¹⁹ Coral bleaching is a problem that goes back many centuries.²⁰

In any event, even if it is ultimately proven that warmer ocean temperatures are causing bleaching, it is not caused by the global warming/climate change theory. It is impossible for this theory to warm the oceans. The oceans are warmed by solar radiation in the visible spectrum only, nothing else.²¹

General extreme events

Australia has recently gone through drought followed by bushfires followed by floods. Dorothea Mackellar wrote in her poem *My Country* in 1908:

*I love a sunburnt country,
A land of sweeping plains,
Of ragged mountain ranges,
Of droughts and flooding rains.*

The recent droughts were caused by a positive Indian Ocean Dipole - IOD, a natural ocean cycle. The bushfires were caused by the drought. The floods were caused by a combination of a negative IOD and a La Nina event. All natural events.

Antarctica

the rate of melt of glaciers and ice sheets has increased.

Climate change poses the most serious threat to Antarctica, the Southern Ocean and the subantarctic islands. The most important factors contributing to physical changes in the Antarctic region are the warming of the upper ocean and the lower atmosphere, and changes in atmospheric circulation, as global concentrations of greenhouse gases increase.

and the Antarctic ice sheet and glaciers have increased their contribution to sea level rise.

As hereinbefore mentioned, it is impossible to prove that a non proven theory can threaten the Antarctic, Southern Ocean and the subantarctic islands. There is no threat. There are no such things as greenhouse gases and it is impossible for the GHE theory to warm the oceans. It is impossible for a non proven theory to warm the lower atmosphere or change global circulation.

Glacial melt is not contributing to sea level rise. As hereinbefore mentioned, the seas are not rising by anything out of the ordinary and that rise is caused by

thermal expansion of the oceans from 370 years of warming from solar radiation in the visible spectrum.

There is glacial melt from the Thwaites Glacier in West Antarctic and surrounding glaciers. This is being caused by sub sea volcanoes under the glaciers.²²

“A new NASA study says that an increase in Antarctic snow accumulation that began 10,000 years ago is currently adding enough ice to the continent to outweigh the increased losses from its thinning glaciers.

This research study entitled “Hot News from the Antarctic Underground“ investigated West Antarctica’s subglacial geology.

It substantiates many previous research studies that have documented this region’s subglacial high-bedrock heat-flow, active faulting, and prevalent volcanism.

Recent research by the University of Rhode Island scientists confirms the premises of a previous Climate Change Dispatch article that subglacial, volcanic heat-flow is melting West Antarctica’s Pine Island Glacier (see here).²³

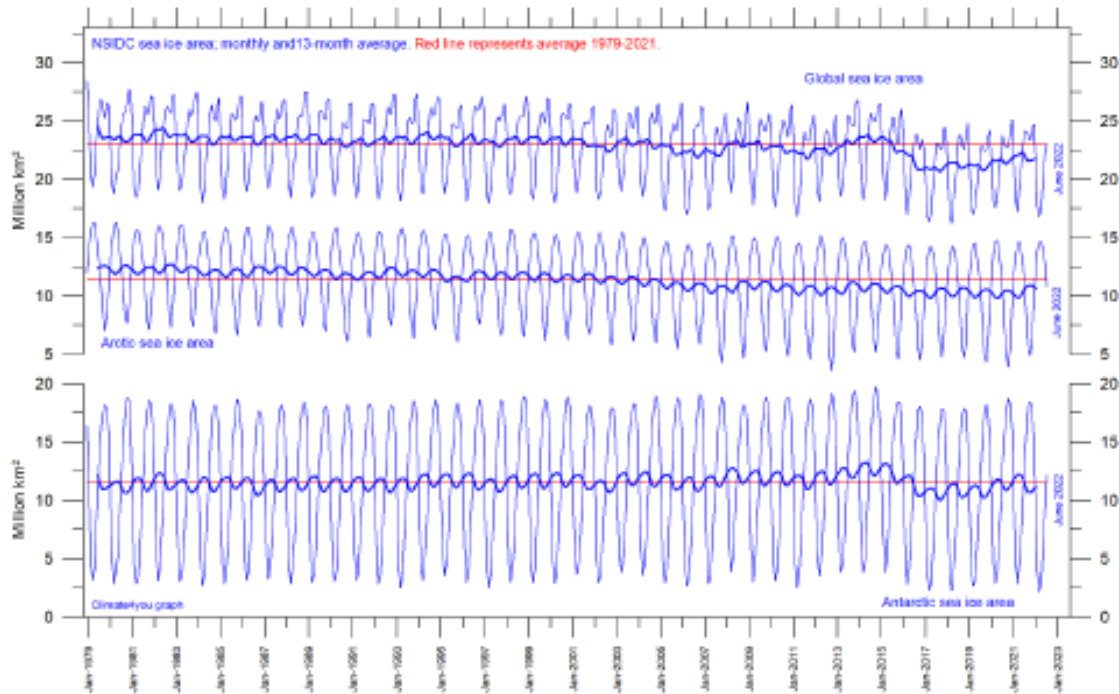
While West Antarctica has glacial melt from sub polar volcanoes, East Antarctica is getting colder and the snow accumulation is outweighing all glacial melts. The Antarctic ice cap is growing.²⁴

*Antarctic ice gain reduces sea levels by 0.23mm a year, says NASA.*²⁵

*Any calving of large icebergs – a natural process unrelated to warming – from an ice shelf, or even disintegration into small icebergs, barely affects sea level. This is because the ice that breaks off was already floating on the ocean.*²⁶ That is the same with sea ice melt. This is the same as putting a block of ice in a glass of water and wait for the ice to melt. The water level in the glass will not change as the ice melts.

Antarctic sea ice experienced a sudden and rapid decline in its seasonal cycle. By 2021, overall sea ice coverage had increased, but remained mostly below average

There is nothing terribly unusual about this.



Graphs showing monthly Antarctic, Arctic, and global sea ice extent since November 1978, according to the [National Snow and ice data Center \(NSIDC\)](https://www.nsidc.org/).

Graph courtesy of Climate4You. http://www.climate4you.com/Text/Climate4you_June_2022.pdf

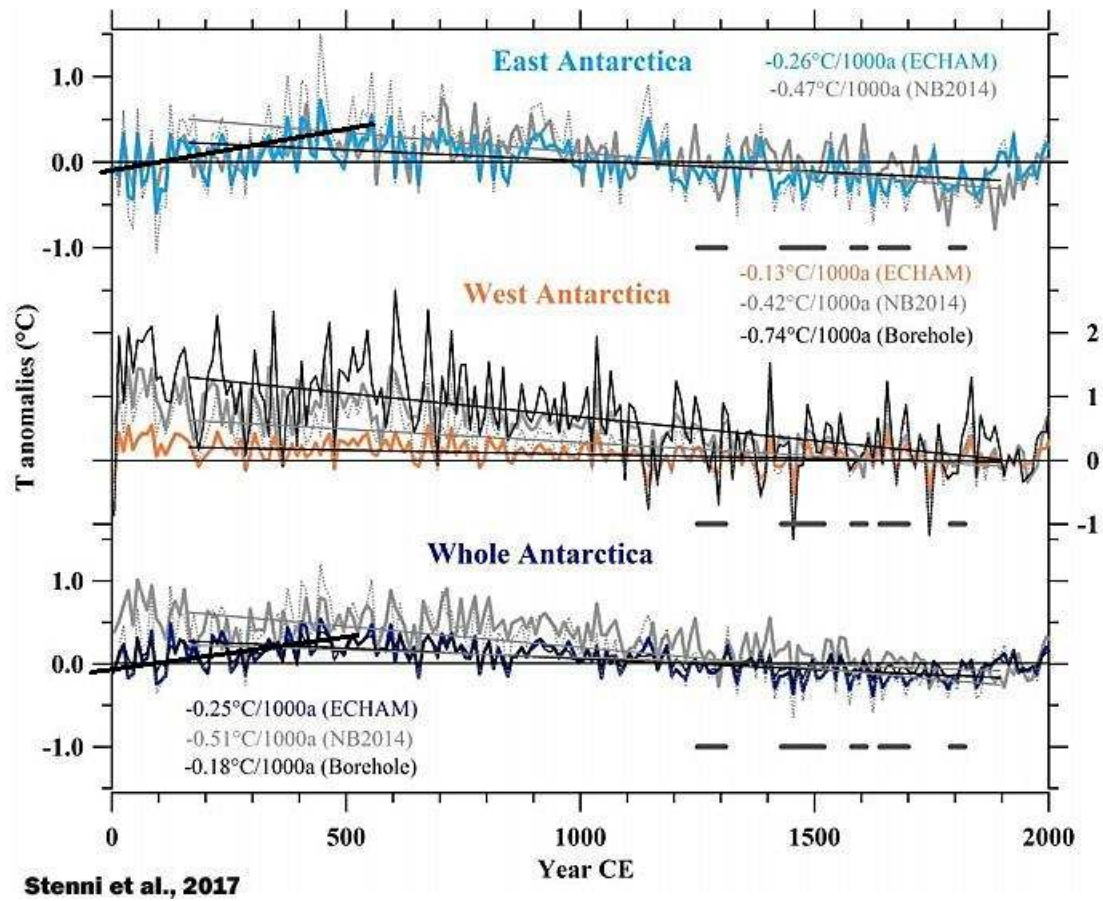
Sea ice extent is governed air temperature as well as and mainly by ocean currents. The ocean is warmed by solar radiation in the visible spectrum and the global warming/climate change/HICC/CAGW/GHE theory has zero control over ocean temperatures.

In the 2019–20 summer, surface temperatures spiked during a record-breaking heatwave across parts of the Antarctic continent. In this case, it is apparent that large-scale climate modes played a role in the extremes

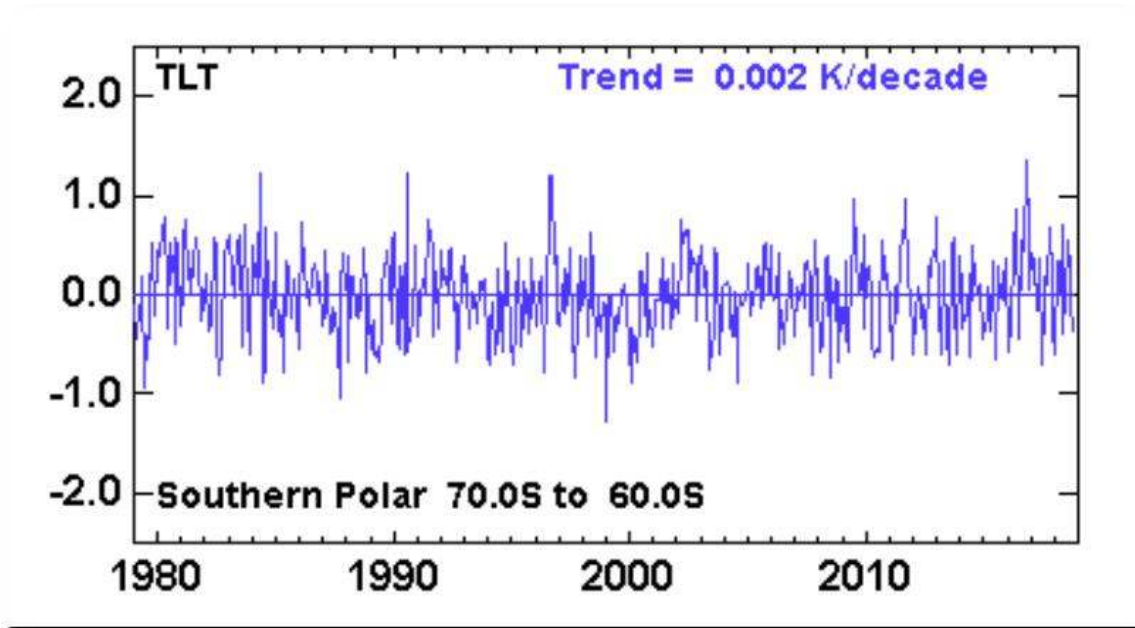
Climate modes played no part. Those are mere words totally unsupported by science. This is nothing more than cherry picking a specific piece of data. Antarctica recorded its coldest April to Sept on Record in 2022.²⁷

West Antarctica recorded a record maximum of 18.3°C at Argentina's Esperanza research station on the Antarctic Peninsula on February 6, 2020. This part of the peninsula juts outside the Antarctic Circle and the warming was caused by a Pacific hot blob that was caused by undersea volcanoes.²⁸ *The South Pole in East Antarctica this year [2021] experienced its coldest winter on record.*²⁹ Antarctica is cooling.³⁰ The Antarctic continent has been cooling for the past 500 years.

Particularly East Antarctica which is three quarters of the continent. Parts of West Antarctica are outside the Antarctic Circle.



From satellite data there has been no warming for the past 40 years.



Summary

The report starts with an assumption that there is a phenomena called climate change, that has no definition, but another assumption that humans are causing it. A bland statement that has no scientific basis to it. Then another assumption that this phenomena is causing damage to the planet by way of extreme weather events.

The lack of definitions and references gives the impression the document has been prepared as part of a school project. Science is non existent and the report has been prepared with an obvious intention to cause alarm. Apart from documenting extreme weather events, the document is factually incorrect in almost every other aspect.

The global warming/climate change/HICC/CAGW/GHE theory has never been scientifically proven. There is no science in claiming that a non proven theory can cause anything else let alone extreme events.

The Earth gives off energy in the form of IR radiation. Certain molecules in the atmosphere absorb and emit this energy. In doing so these molecules warm slightly. This warming is not new energy, it is the energy the Earth gave off to the molecules. In doing so the Earth has to cool by the same amount that the molecules warm. This is not new energy. This is an energy transfer from the Earth to the molecule.

There is no such thing as a GHE. Radiation provides no heating to the Earth/atmosphere system. It is impossible that this GHE theory can warm the oceans. Sea levels are not rising anything out of the ordinary and have only been rising since the LIA. They have been slowly declining over the past 8,000 years.

There is no warming of the Australian climate, it's temperature has not risen in 150 years. Global temperatures have risen since the LIA 370 years ago. This warming is natural based on grand solar cycles. The current *Grand Maxima* is the strongest in 9,000 years.

The oceans are not acidifying. That is a deliberate lie stated with a purpose to deceive.

Cold kills more people than heat.

The Great Barrier Reef is not in any danger. Bleaching is natural and recovery is quick. In a few thousand years when we plunge into the next ice age, sea levels will drop 120-150 metres, the reef will be high and dry out of the water and dead. It will remain so for 80,000 years until the next interglacial warm period when it will spring back to life again, as it has done every 100,000 years for the last million years.

The Antarctic ice sheet is growing, not shrinking or melting. There is glacial melt in one small region of West Antarctica caused by many volcanoes under the ice shelves. Elsewhere there is more than enough new snow cover to offset any melt. Antarctica's temperature has been falling for the past 500 years and the ice sheet is not going to fall off its hinges into the oceans and melt and cause the seas to rise. Melting of ice shelves and sea ice has zero effect on sea levels because the ice is floating.

This document serves no scientific purpose and is designed to create alarm to be used for political purposes. I.e. It is a political document, not a scientific document.

References

¹ ***IPCC AR5 Ch 6 Pg 471***

Human CO₂ Emissions have little Effect on Atmospheric CO₂

Dr Ed Berry 2019

<http://www.sciencepublishinggroup.com/journal/paperinfo?journalid=298&doi=10.11648/j.ijaos.20190301.13>

Correct Timing is Everything - Also for CO₂ in the Air

<http://www.co2science.org/articles/V12/N31/EDIT.php>

Guest Editorial by Tom V. Segalstad

Associate Professor of Resource and Environmental Geology

The University of Oslo, Norway

Volume 12, Number 31: 5 August 2009

² ***IPCC AR4 WG1***

³ **The Response of the Ocean Thermal Skin Layer to Variations in Incident Infrared Radiation**

[Elizabeth W. Wong](#)

[Peter J. Minnett](#)

First published: 23 March 2018

<https://doi.org/10.1002/2017JC013351>

<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2017JC013351>

⁴ **Greenhouse Effect does not exist**

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16th April 2021

<https://www.authorea.com/users/459592/articles/607845-greenhouse-effect-does-not-exist>

⁵ ***Repeatability of Professor Robert W. Wood's 1909 experiment on the Hypothesis of the Greenhouse Effect***

By Nasif S. Nahle 2011

[https://www.researchgate.net/profile/Alexander-](https://www.researchgate.net/profile/Alexander-Kolker/post/What_is_the_statistical_relationship_between_CO2_concentration_level_and_Global_change_in_Temperature/attachment/61a567c8b3729f0f6196909e/AS%3A1095630017568768%401638229960177/download/R_Wood_Experiment_on_Greenhouses_Effect-NO+trapped+radiation.pdf)

[Kolker/post/What is the statistical relationship between CO₂ concentration level and Global change in Temperature/attachment/61a567c8b3729f0f6196909e/AS%3A1095630017568768%401638229960177/download/R_Wood_Experiment_on_Greenhouses_Effect-NO+trapped+radiation.pdf](https://www.researchgate.net/profile/Alexander-Kolker/post/What_is_the_statistical_relationship_between_CO2_concentration_level_and_Global_change_in_Temperature/attachment/61a567c8b3729f0f6196909e/AS%3A1095630017568768%401638229960177/download/R_Wood_Experiment_on_Greenhouses_Effect-NO+trapped+radiation.pdf)

The Famous Wood's Experiment Fully Explained

Published on June 25, 2012

Written by Alberto Miatello

<https://principia-scientific.org/the-famous-wood-s-experiment-fully-explained/>

(Why Wood and Nahle were correct and Pratt was in error.)

⁶ ***The GHE Theory cannot warm the oceans***

Brendan Godwin; May 2021

DOI: 10.13140/RG.2.2.24289.02405

https://www.researchgate.net/publication/351436065_The_GHE_Theory_cannot_warm_the_oceans

⁷ ***Global Sea-Level Rise: An Evaluation of the Data***

By Craig D. Idso, David Legates, and S. Fred Singer, Heartland Policy Brief, May 20, 2019

https://www.heartland.org/_template-assets/documents/publications/SeaLevelRiseCCRIL.pdf

62 km² (+6%) Net Expansion In 100s Of Pacific-Indian Ocean Island Shorelines From 2000-2017

By Kenneth Richard on 30. August 2021

https://notrickszone.com/2021/08/30/new-study-62-km%C2%B2-6-net-expansion-in-100s-of-pacific-indian-ocean-island-shorelines-from-2000-2017/?utm_source=rss&utm_medium=rss&utm_campaign=new-study-62-km%25c2%25b2-6-net-expansion-in-100s-of-pacific-indian-ocean-island-shorelines-from-2000-2017&mc_cid=472ed46dbb&mc_eid=38089d59cb

Tuvalu Islands are not sinking

<https://wattsupwiththat.com/2018/10/29/remember-when-climate-crusaders-told-us-coral-atolls-would-be-the-first-to-go-with-sea-level-rise-never-mind/>

⁸ <https://essd.copernicus.org/articles/11/1783/2019/essd-11-1783-2019.pdf>

⁹ ***Critical Analysis of Kohler's Comment on Harde's Scrutinizing the Carbon Cycle***

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