

# THE CLIMATE CHANGE AGENDA – A CRITICAL ANALYSIS

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## INTRODUCTION:

From June 3<sup>rd</sup> to 14<sup>th</sup> 1992,<sup>1</sup> the United Nations Conference on Environment and Development (UNCED)<sup>2</sup> took place in Rio de Janeiro Brazil, and was touted in the United States Environmental Protection Agency (EPA) Journal of September/October 1992 as:

“... was a watershed event in environmental history. The conference, held in Rio de Janeiro last June, also represented a diplomatic breakthrough that opened up the possibility for a new era of global economic growth coupled seriously with environmental stewardship.”<sup>3</sup>

and

“More than 170 countries met in Rio for one of the most important multinational conferences in history. We did so in recognition of the potential dangers to human survival and the impediments to economic opportunity that come from the poisoning of our Earth, the disruption of our planet’s natural systems, the degradation of human and ecological health, and the depletion of our productive natural resources.”<sup>4</sup>

During this conference, two international conventions were presented and opened for signature:

1) A Framework Convention on Climate Change requiring signatories to take steps to reduce their emissions of gases believed to contribute to global warming, although no mandatory targets and timetables for such actions were set, largely at the insistence of U.S. negotiators. In Rio, then-President George Bush Senior signed the climate change convention. On April 21, 1993, President Clinton pledged that the United States would reduce its emissions of greenhouse gases to their 1990 levels by the year 2000 and would take the lead in addressing global warming.<sup>5</sup>

2) A Framework Convention on Biological Diversity prescribing steps for the protection and sustainable use of the world’s diverse plant and animal species. Then-President Bush Senior refused to sign the biodiversity convention, citing concerns about protection of intellectual property rights and the treaty’s financing arrangements. On April 21<sup>st</sup> 1993 President Clinton reported that the Administration had worked out an interpretive statement addressing some business and environmental groups’ concerns, and he announced that the United States would sign the biodiversity convention.<sup>6</sup>

However, its “crowning jewel” was *Agenda 21*,<sup>7</sup> a 350 page document for achieving sustainable development in the 21<sup>st</sup> century,<sup>8</sup> which according to the American EPA:

“... represented an extraordinary new global consensus on standards against which to measure the environmental performance of governments. No doubt the press, non-governmental groups, and the business community will mine these documents for years to come. The human rights commitments of the 1970s and 1980s, the Helsinki Accords, and

others, offer a model for how committed nongovernmental interests can confer authority on moral obligations and translate them into new policies.”<sup>9</sup>

In Rio, it was agreed that a five year review of Earth Summit progress would be made in June 1997 in New York City<sup>10</sup> by the United Nations General Assembly meeting in special session.<sup>11</sup> This special session of the UN General Assembly took stock of how well countries, international organisations and sectors of civil society had responded to the challenge of the Earth Summit. Then from December 1<sup>st</sup> to 11<sup>th</sup>, 1997 - *The Conference of the Parties to the United Nations Framework Convention on Climate Change* (UNFCCC) was held in Kyoto, Japan. More than 150 nations attended and adopted the first international treaty on controlling and reducing greenhouse gases.

This agreement mandated 37 industrialised countries and the European Community, made up of 15 nations at the time of the Kyoto negotiations, to cut their greenhouse gas emissions. The protocol, however, exempted more than 100 developing countries, including China and India, from the mandatory reductions<sup>12</sup> – which led to the U.S., upon the election of George Bush Junior, to withdraw from it in 2001.<sup>13</sup>

Kyoto originated from the UN Framework Convention on Climate Change (UNFCCC), which was signed at the Rio Earth Summit in 1992. The UNFCCC is one of the three “Rio Conventions”. The other two conventions are the Convention on Biological Diversity and the Convention to Combat Desertification. Conference of Parties (COP) is the supreme decision-making body of the Convention. The COP meets every year to review the Convention’s implementation. The first COP took place in Berlin in 1995. It was at the COP3, when the Kyoto Protocol was adopted.<sup>14</sup> The two most recent COPs at the time of writing were COP26 in Glasgow in November 2021<sup>15</sup> and COP27 in Sharm el-Sheikh Egypt at the foot of Mount Sinai.<sup>16</sup>

During the latter, dozens of religious leaders from around the world gathered on Sunday November 13<sup>th</sup>, 2022, simultaneously in London, Sharm el - Sheikh, Jerusalem and other locations around the world to held a “ground-breaking Climate Repentance Ceremony.” The leaders walked together, in “a prayerful, penitential march” with scrolls bearing the “Ten Principles for Climate Repentance”!<sup>17</sup> This event was held at the initiative of Yosef Abramowitz - green energy entrepreneur, CEO of Gigawatt Global, and was implemented by Peace Department, the Interfaith Center<sup>18</sup> for Sustainable Development, the Elijah “Interfaith” Institute and the Adam Teva Va Din organisation.<sup>19</sup>

Moreover, at Glasgow’s COP26 in November 2021, the “Reverend” Susan Hendershot and leftist “Interfaith” Power and Light President stated:

“As I reflect on the idea of hope, I think about the very clear way that I felt it earlier today. I attended an ‘Interfaith’ Prayer Vigil with IPL Board member Vy Nguyen and United Methodist representative John Hill in Glasgow’s George Square, where speakers from multiple spiritual traditions, including Christian, Jewish, Muslim, Sikh, Buddhist, Hindu, Pagan, and many others, led us in prayer and reflection from their tradition on care for Earth, our common home.”<sup>20</sup> [*My emphasis added.*]

With the adoption of the Kyoto protocols, there were two key conditions for the Kyoto protocol to come into effect. The first condition was that the protocol should be ratified by at least 55 countries involved in the UNFCCC. This condition was met on May 23<sup>rd</sup>, 2002, when Iceland became the 55<sup>th</sup> country to ratify the protocol. Other meetings took place on November 2<sup>nd</sup>, 1998 in Buenos Aires; July 23<sup>rd</sup>, 2001 in Bonn, Germany, where the United States did not participate; November 10<sup>th</sup>, 2001 when representatives from 160 countries meet in Marrakech, Morocco; and November 18<sup>th</sup>, 2004 when the Russian Federation ratified the protocol, giving new hope that it could be implemented, even without the United States<sup>21</sup> – as this satisfied the second condition; that the

ratifying countries should account for at least 55% of the world's total Carbon Dioxide emissions in 1990.<sup>22</sup>

Hence, just three months later, the Kyoto Protocol came into effect on February 16, 2005,<sup>23</sup> whereupon the ratifying countries agreed to cut their annual carbon discharges as measured through their releases of six greenhouse gases by varying amounts, aimed at averaging 5.2% below 1990 levels. These six gases identified were Carbon Dioxide (CO<sub>2</sub>), Methane (CH<sub>4</sub>), Nitrous Oxide (N<sub>2</sub>O), Sulfur Hexafluoride (SF<sub>6</sub>), Hydrofluorocarbons (HFCs), and Perfluorocarbons (PFCs).<sup>24</sup>

Eighteen years later from November 30 to December 11, 2015,<sup>25</sup> Paris hosted representatives from 196 countries at COP21, which became known as the Paris Climate Agreement,<sup>26</sup> ostensibly aimed at reducing the emission of gases that contribute to global warming.<sup>27</sup> In short, to improve upon and replace the Kyoto Protocol of COP3 in 1997. It entered into force on November 4, 2016, and has been signed by 195 countries and ratified by 190 as of January 2021.<sup>28</sup> Its objective is stated in Article 2, paragraph 1, subsection (a) as follows:

“Holding the increase in the global average temperature to well below 2°C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5°C above pre-industrial levels, recognizing that this would significantly reduce the risks and impacts of climate change;”<sup>29</sup>

Paragraph 2 states:

This Agreement will be implemented to reflect **equity** and the principle of common but differentiated responsibilities and respective capabilities, in the light of different national circumstances. [My emphasis added.]

To which Article 3 elucidates the concept of global equity and the principle of common but differentiated responsibilities and respective capabilities:

“As nationally determined contributions to the global response to climate change, all Parties are to undertake and communicate ambitious efforts as defined in Articles 4, 7, 9, 10, 11 and 13 with the view to achieving the purpose of this Agreement as set out in Article 2. The efforts of all Parties will represent a progression over time, while recognizing the need to support developing country Parties for the effective implementation of this Agreement.”

The “recognizing the need to support developing country Parties for the effective implementation of this Agreement” has noted that;

“... developed countries should provide financial resources to help Least Developed Countries – LDCs “in continuation of their existing obligations under the Convention, such as the COP16 commitment of \$100 billion per year from developed countries by 2020. (Approximately \$10.3 billion had been raised by May 2018.) That funding was to support both mitigation and adaptation efforts. Funding from developed countries would come from a number of different mechanisms, presumably to include grants, equipment, and technical expertise.”<sup>30</sup>

Considering the levels of corruption in LDCs, one can only imagine the level of abuse and exploitation of such funding by countries ruled by third world despots such as Venezuela, North Korea, Democratic Republic of Congo, Somalia, Honduras, Burma (Myanmar) and the like.<sup>31</sup> To which perhaps, in recognition of this, at least in part, President Donald Trump enacted changes in U.S. climate policy, resulting in the country's formal exit from the Paris agreement on November 4,

2020. The United States' absence was short-lived, however. On the first day of his term, on January 20, 2021, President Joe Biden re-entered the agreement on behalf of the United States, which opened the way for the country's formal reinstatement in February 2021. By January 2021, 195 countries had signed and 190 countries had ratified the agreement.<sup>32</sup>

Since the Paris agreement came into force, achievement in reducing global carbon emissions has been mixed. European Union officials announced in 2018 that all member states had fallen behind on reaching their targets; with Sweden, Portugal, and France had making the most progress, reaching 77 percent, 66 percent, and 65 percent of their 2020 targets by 2018, respectively.<sup>33</sup> On the other hand, Chinese authorities announced that they were making great strides in reducing greenhouse gas emissions, noting that China had met its 2020 commitments in 2017.<sup>34</sup> Although, given this communist country's history of covering up the COVID-19 outbreak in Wuhan,<sup>35</sup> Uighur genocide and forced human organ harvesting of Falun Gong,<sup>36</sup> and overall history of fudging for example its Gross Domestic Product figures, one has to strongly question this assertion. Moreover, while the rest of the world has been largely reducing coal-powered capacity since 2017, China is building so much new coal power<sup>37</sup> that it more than offsets the decline elsewhere!<sup>38</sup>

And ironically, in President Trump's America, the CO<sub>2</sub> emissions had been dramatically reduced, while China's, as a so-called "developing" country, continue to sky rocket, as does, albeit to a lesser extent, India's.<sup>39</sup> Nevertheless, the purpose of this essay, is to question the validity and motives behind the global obsession against CO<sub>2</sub>. Namely, is it one of altruism embodying the saving of the planet, or nefarious intent to undermine our fundamental freedoms and liberties.

## What exactly is “Climate Change?”

What is Climate Change? Let us begin with the official definition from the United Nations.

“Climate change refers to long-term shifts in temperatures and weather patterns.”<sup>40</sup>

As will be shown later, by such a definition, “Climate change” has always been a part of the Earth’s natural history. However, what makes “Climate change” controversial today, is the official narrative’s pivotal focus on impending climate alarmism and catastrophe.

“These shifts may be natural, such as through variations in the solar cycle. But since the 1800s, human activities have been the main driver of climate change, primarily due to burning fossil fuels like coal, oil and gas.

Burning fossil fuels generates greenhouse gas emissions that act like a blanket wrapped around the Earth, trapping the sun’s heat and raising temperatures.

Examples of greenhouse gas emissions that are causing climate change include carbon dioxide and methane. These come from using gasoline for driving a car or coal for heating a building, for example. Clearing land and forests can also release carbon dioxide. Landfills for garbage are a major source of methane emissions. Energy, industry, transport, buildings, agriculture and land use are among the main emitters.

And emissions continue to rise. As a result, the Earth is now about 1.1°C warmer than it was in the late 1800s. The last decade (2011-2020) was the warmest on record.

Many people think climate change mainly means warmer temperatures. But temperature rise is only the beginning of the story. Because the Earth is a system, where everything is connected, changes in one area can influence changes in all others.

**The consequences of climate change now include, among others, intense droughts, water scarcity, severe fires, rising sea-levels, flooding, melting polar ice, catastrophic storms and declining biodiversity.”<sup>41</sup> [My emphasis added.]**

However, the multiple dire man made or anthropogenic consequences listed in the final paragraph of the above quote, are as documented by Patrick Moore,<sup>i</sup> not backed by hard evidence.<sup>42</sup> Rather, they are all based on the assumption that carbon dioxide almost exclusively controls temperature, which has never been proven as fact.<sup>43</sup> In short, the Earth’s climate is infinitely more complex than that. Moreover, most of these claims are based on computer simulations, whereupon their author decides what they predict and hence accordingly input the assumptions to serve their desired outcome. If you will, a classic embodiment of self-fulfilling digital prophecy,<sup>44</sup> rather than a digital crystal ball.<sup>45</sup>

Many in the Climate alarmist camp resort to calling climate sceptics and/or heretics such as Patrick Moore “Climate Change Deniers.” The implied and dubious parallel being to “Holocaust Deniers” who deny or seriously underplay the historic fact of the National Socialist perpetrated genocide of European Jewry.

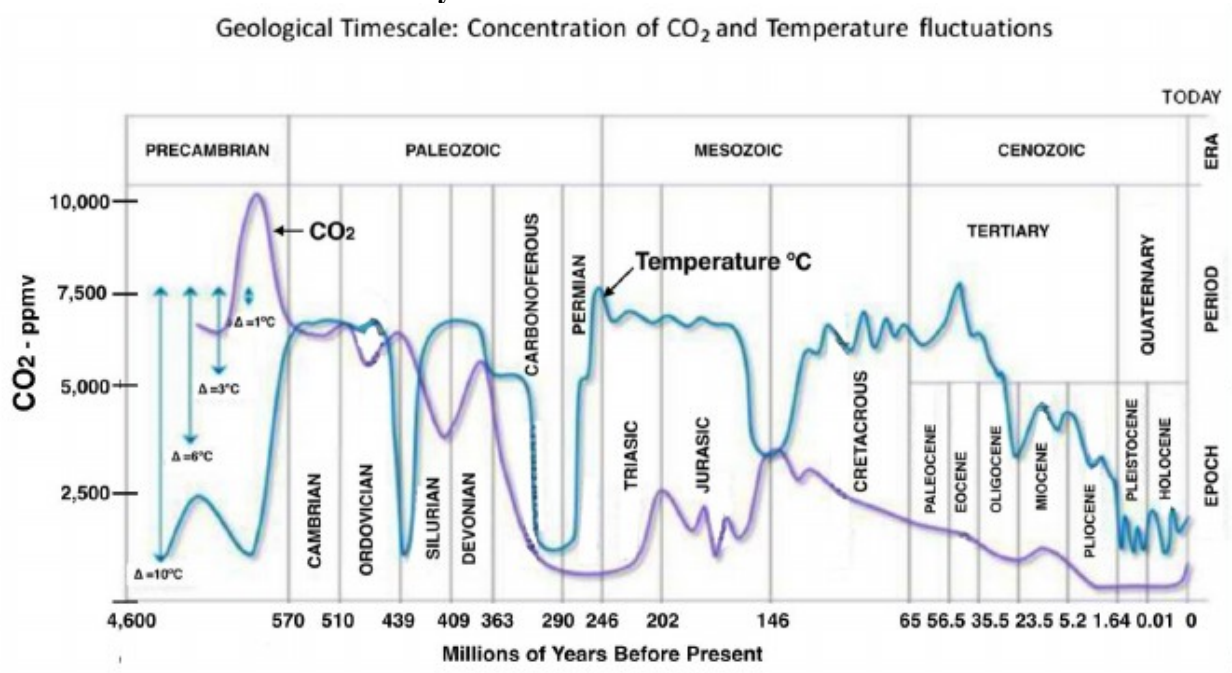
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<sup>i</sup> Patrick Moore; is a Canadian BSc Biologist, [PhD Ecologist](https://www.terry.ubc.ca/2014/02/06/ubc-colloquium-presents-dr-patrick-moore/) and in spite of Greenpeace removing [all such reference](https://www.terry.ubc.ca/2014/02/06/ubc-colloquium-presents-dr-patrick-moore/) on its website, [one of its co-founders in 1971](https://www.terry.ubc.ca/2014/02/06/ubc-colloquium-presents-dr-patrick-moore/). <https://www.terry.ubc.ca/2014/02/06/ubc-colloquium-presents-dr-patrick-moore/>, <https://www.congress.gov/116/meeting/house/109519/witnesses/HHRG-116-II13-Wstate-MalcomJ-20190522.pdf>, <https://web.archive.org/web/20060904193944/http://greenpeace.org.au/aboutus/founders.html>. See also <https://co2coalition.org/teammember/patrick-moore/>.

Moore however describes a sceptic as someone who rejects the conclusions of a particular theory, while a heretic rejects the theory's underlying assumptions that are the basis for those conclusions.<sup>46</sup> As such, Moore would rather be labelled a climate sceptic or heretic, to which, in the true spirit of the heretic, he questions the underlying assumptions of a Climate apocalypse distantly removed from fact. Likewise for myself personally, the subject of my book *The Pastor and the Matriarch of the German Underground and Their Times – A Polish Perspective*<sup>47</sup> further flies in the face of the mainstream dogmatic parallel between Holocaust and Climate Apocalypse denial. Moreover, it seems anyone with a view contrary to any mainstream media narrative, is monotonously labelled a far-right extremist.

For the Climate apocalypse narrative, the most fundamental assumption is that of increasing anthropogenic carbon dioxide emissions triggering increasing global temperature with its subsequent catastrophic consequences. Again in short, the simplistic notion of carbon dioxide on its own, being the control knob of global climate. However, the graph below, spanning almost the 4.6 billion years of the Earth's natural history, rather than the relative twinkling of the eye to just the first industrial revolution, suggests anything but:

**Figure 1: Global temperature and atmospheric CO<sub>2</sub> concentration over almost 4.6 billion years of the Earth's natural history**<sup>48</sup>



Purple line is CO<sub>2</sub> concentration in parts per million (ppm); blue line is change in temperature (Δ°C). Due to the extraordinary length of time covered, the horizontal scale is not in constant units.

As the above figure 1 clearly indicates, the geological record over the almost last 4.6 billion years of the Earth's natural history, going back almost to its very formation, exponentially pre-dating human existence, expresses temperatures and CO<sub>2</sub> levels in the atmosphere that have not been stable, making untenable the IPCC – Intergovernmental Panel On Climate Change's assumption that they would be stable in the absence of human emissions.<sup>49</sup> Moreover, both temperature and CO<sub>2</sub> are lower today than they have been during most of the era of modern life on Earth since the Cambrian Period.<sup>50</sup> In short, no lock-step cause-effect relationship between the two parameters.<sup>51</sup>

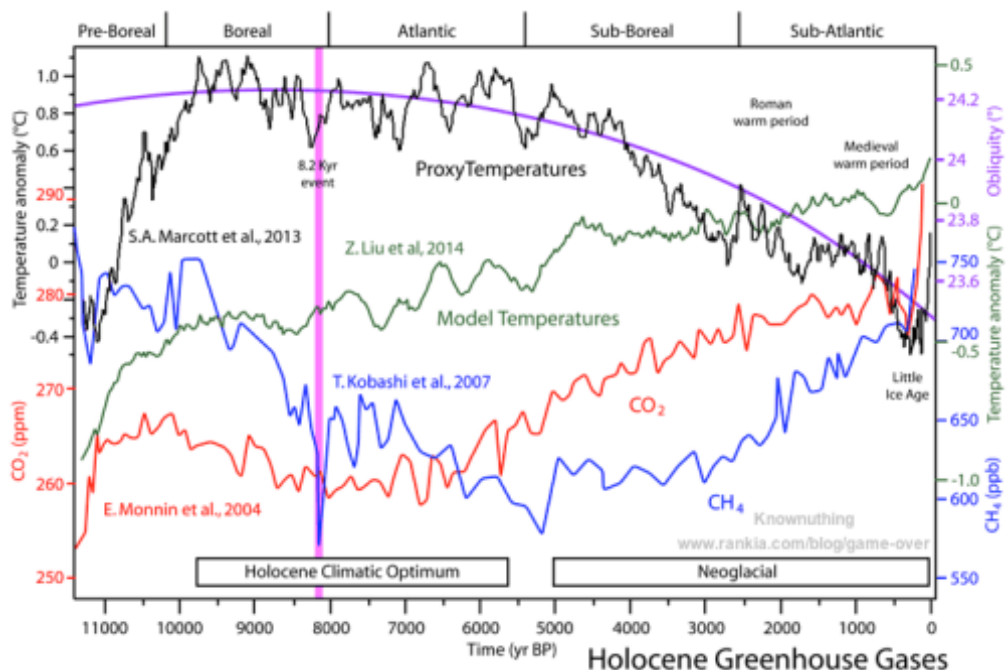
To which further note; the Ordovician-Silurian mass extinction event from 445.2 million to 443.8 million years ago,<sup>52</sup> was characterised by a 9 degree Celsius drop in temperature while still

maintaining CO<sub>2</sub> levels of around 5,500 to 6,000 ppm – compared to 424.47 ppm at the time of writing in early May 2023.<sup>53</sup> The lower limit of 5,500 ppm during the Ordovician-Silurian mass extinction, being almost thirteen-fold that of today's level of 424.47. A major ice age is known to have occurred in the southern hemisphere and climates cooled world-wide. The first wave of extinctions happened as the climate became colder and a second pulse occurred as climates warmed at the end of the ice age.<sup>54</sup>

Estimates of CO<sub>2</sub> concentrations in the atmosphere and local surface temperatures in the distant past can be made by extrapolation from proxy data, which the IPCC defines as “a record that is interpreted, using physical and biophysical principles, to represent some combination of climate-related variations back in time.”<sup>55</sup> Examples of proxies include pollen analysis, tree ring records, speleothems, characteristics of corals and various data derived from marine sediments and ice cores” (IPCC, 2013, p. 1460). The most valuable proxy data come from oxygen and hydrogen isotopes in ice and CO<sub>2</sub> in air bubbles preserved in ice cores obtained by drilling in Antarctica and Greenland. Temperature is inferred from the isotopic composition of the water molecules released by melting the ice cores. During colder periods, there will be a higher ratio of oxygen isotopes <sup>16</sup>O to <sup>18</sup>O and hydrogen isotopes <sup>2</sup>H (also known as deuterium or heavy hydrogen used in the hydrogen bomb) to <sup>1</sup>H in the ice formed than would be found during warm periods.<sup>56</sup> [The most abundant isotope of Oxygen being <sup>16</sup>O and hydrogen being <sup>1</sup>H. These chemical elements compose the compound dihydrogen monoxide – water – H<sub>2</sub>O.]<sup>57</sup>

The absence of CO<sub>2</sub> being the overwhelming control knob of global mean temperature is further corroborated over vastly more recent geological time scale. Today, we live in the Holocene epoch, dating back 11,500 years, of the Quaternary period, dating back 1.64 million years, of the Cenozoic era dating back 65 million years<sup>58</sup> to the extinction of the dinosaurs at the end of the Cretaceous period of the Mesozoic era. The following chart for the Holocene epoch graphically illustrates this point and indeed, so much more that flies in the face of the Climate Apocalypse narrative:

**Figure 2: Temperature and greenhouse gases changes during the Holocene.<sup>59</sup>**



The black curve, is global temperature reconstruction by Marcott et al., 2013. The purple curve, is Earth's axis obliquity or Milankovitch cycle. Obliquity being the tilt of the Earth's axis of daily

rotation to the plane of its orbit around the Sun. Today it is 23.5 degrees, but as the graph illustrates, it has been as high as 24.2 degrees but since has been on the decline for the last 10,000 years or so. For perspective, if it was the extreme case of 90 degrees, the axis of rotation would lie on the plane of orbit, with the respective north and south polar ice caps melting in their summer, and freezing in their winter.

On the other hand, at zero degrees, there would be no seasons. In the case of the gas giant planet Jupiter, it is only 3.13 degrees,<sup>60</sup> while for the much smaller gas giant planet Uranus, it is 97.77 degrees.<sup>61</sup> For the terrestrial planet Mars, it is 25.19 degrees, quite similar to the Earth, which leads to Mars, like the Earth, having distinct seasons over its longer orbital period of 686.98 Earth days and axial rotation or Martian day of 24.6597 hours – similar to the Earth's 24 hours.<sup>62</sup>

The red curve, represents CO<sub>2</sub> levels as measured in Epica Dome C (Antarctica) ice core, reported in Monnin et al., 2004. Blue curve, methane levels in ppb (parts per billion – not “million” as with CO<sub>2</sub>) as measured in GISP2 (Greenland) ice core from Kobashi et al., 2007. Notice the great effect of the 8.2 kyr event on methane concentrations. The green curve, is simulated global temperatures from an ensemble of three models (CCSM3, FAMOUS, and LOVECLIM) from Liu et al., 2014,<sup>63</sup> which graphically illustrates the inability of general climate models to replicate the Holocene general temperature downward trend. The vertical pink bar, is the 8,200 year BP (Before Present) climatic event, characterised by the dramatic drop in methane atmospheric concentration, which just post-dated a dramatic drop in temperature, albeit, temperature still above that of the present day. The major major Holocene climatic periods are indicated in the top horizontal bar, with the present day one being the Sub-Atlantic.

To reiterate, the black plot of proxy temperatures, is in stark contrast to the green plot of computer modelling. Since the proxy temperatures are real world data, and the computer modelling temperatures are not and diverge dramatically from the real world data, especially from the early Sub-Boreal Holocene climatic period 5,000 years ago, one can only infer the failure of the climate apocalypse agenda driven computer models. Much of this hysteria is predicated on data since industrialisation, but no consideration of data preceding it.

However, what fits the real-world proxy temperature data so much better, is the obliquity or Milankovich cycle of the Earth's axial tilt to its orbital plane around the Sun. To which one could at the time in June 2022, advise World Economic Forum (WEF) Young Global Leader and then New Zealand Prime Minister Jacinda Adern,<sup>64</sup> to consider more seriously the Milankovich cycle than proverbial cow farts and burps!<sup>65</sup> Moreover, as stated by Maureen E. Raymo and Kerim Nisancioglu in the conclusion to their 2002-03 paper;

“Ultimately, ocean circulation and ice volume are being controlled by atmospheric dynamics that must be sensitive to Milankovitch variations in incoming solar radiation. These are the same physical processes that will determine the response of Earth's climate to rising greenhouse gases. Building a model which can reproduce the first-order features of the

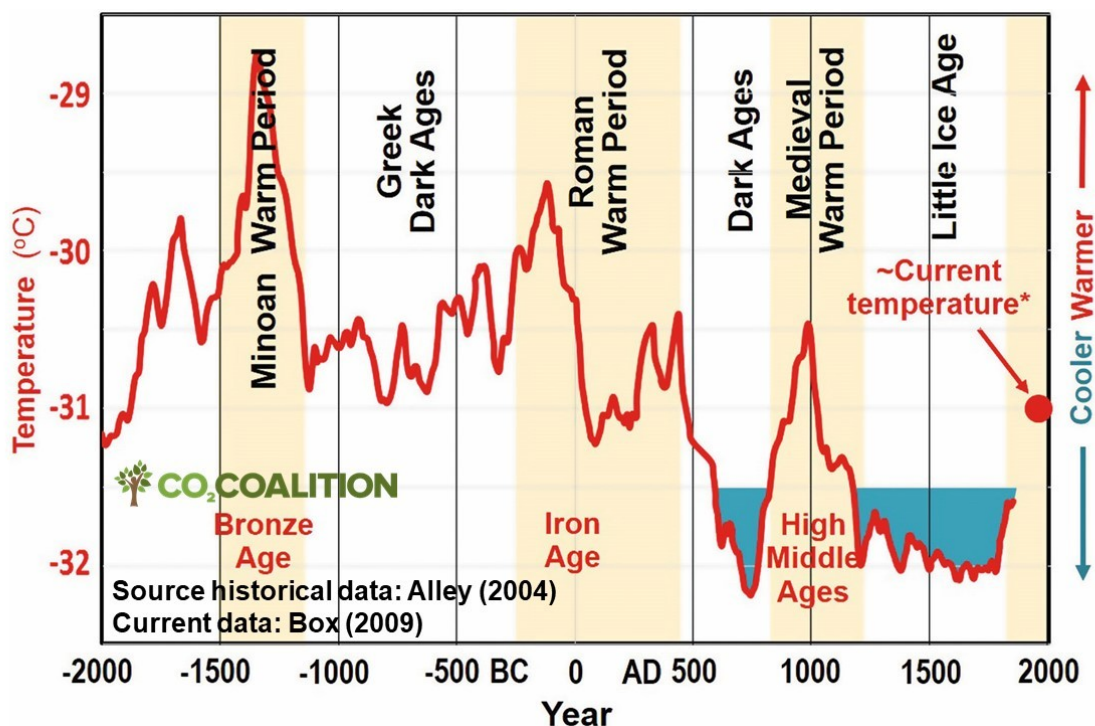


Earth's Ice Age history over the Plio-Pleistocene<sup>ii</sup> would be an important step forward in the understanding of the dynamic processes that drive global climate change.”<sup>66</sup>

Admittedly, per molecule, it is documented that methane CH<sub>4</sub> is thirty times more potent a greenhouse gas than CO<sub>2</sub>. However, as documented by Will Happer, who served as director of emerging technologies at the National Security Council, where he was President Trump's top adviser on climate science,<sup>67</sup> CO<sub>2</sub> molecules are being added 300 times faster than CH<sub>4</sub> molecules. So methane contributes only about 30/300 or 1/10 of the already small warming from CO<sub>2</sub>.<sup>68</sup> Moreover, in the graph for figure 2, CH<sub>4</sub> is given in ppb – parts per billion, and CO<sub>2</sub> in ppm – parts per million.

The chart for Figure 2, makes mention of two periods from human history; namely the Roman warm period pre-dating and spanning post the time of Christ and the Medieval warm period centred around 1,000 AD. In spite of much lower CO<sub>2</sub> atmospheric concentrations then, both these periods are defined as “warm,” with the Roman period, from the plot of figure 2, markedly warmer than today, and the Medieval period warmer or at least on par with today, and likewise characterised by much lower CO<sub>2</sub> levels than today. The following figure 3, dating back to ancient human civilisation, highlights this point more clearly:

**Figure 3: For human advancement, warmer is better than colder.<sup>69</sup>**



As documented by the CO<sub>2</sub> Coalition:<sup>70</sup>

ii The Pliocene and Pleistocene epochs at either side of the Tertiary and Quaternary period boundary, are commonly combined and referred to as the Plio-Pleistocene because of their short duration in comparison to previous epochs, and also because the events that took place during these epochs are very closely associated. The Pliocene spans the interval 5.3 to 2.6 million years ago and the Pleistocene 2.6 to 0.01 million years ago. The end of the Pleistocene epoch just precedes the present-day Holocene epoch. See <https://research.amnh.org/paleontology/perissodactyl/concepts/deep-time/plio-pleistocene> and the time scale for Figure 1.

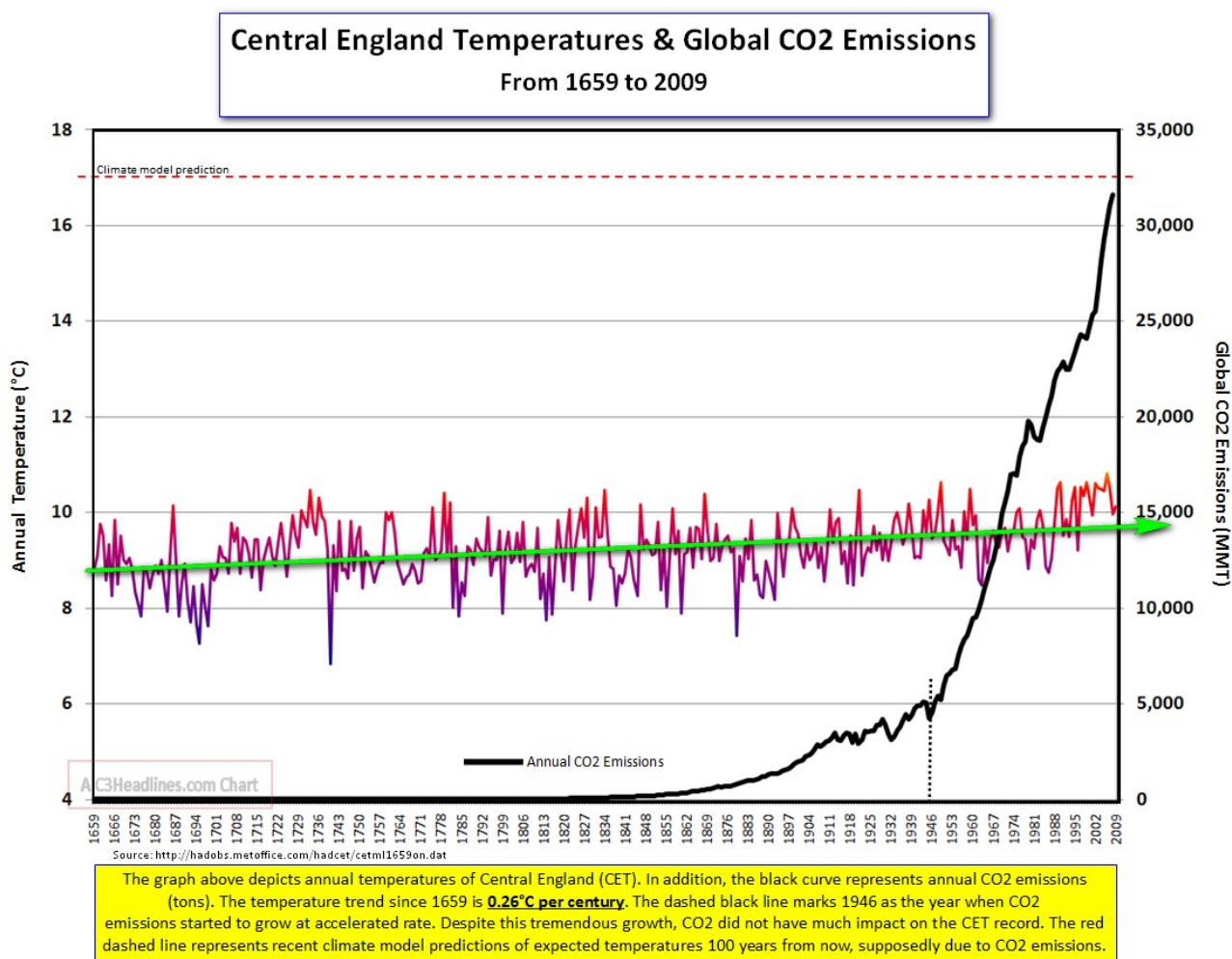
“Before climate science became politicised, warm periods were referred to by scientists as ‘climate optima’ because, for almost all species on Earth, warmer is better than colder. The most dramatic advances in civilisation took place during the last four warm periods—including our own. The advancement of science, technology and the arts have been directly linked to warmer weather. The warming, which made possible an abundance of food, freed the population from its preoccupation with daily survival to do other things. It led to cultural development, something impossible during the cold periods. These prosperous warm periods were followed by declining temperatures with names like the Greek Dark Ages, the Dark Ages and the Little Ice Age. These were times of great despair as the Earth plunged into global cooling that featured crop failure, famine and mass depopulation. Make no mistake; bad things happen during cold periods, very bad things.”<sup>71</sup>

Indicative of the above, is the Minoan Warm Period coinciding with the Bronze Age centred around 1,300 BC or 3,300 years ago, followed by the Greek Dark Ages, the resurgence of the Roman Warm Period coinciding with the Iron Age – pre and post-Christ, the start of the second Dark Ages coinciding with the collapse of the Western Roman Empire in 476 AD,<sup>72</sup> the Medieval Warm Period centred around 1,000 AD, followed by the Little Ice Age up until around industrialisation. Again, major fluctuations in global mean temperature when CO<sub>2</sub> levels were well below what they are today.

Yet somehow, according to purveyors of the Climate Apocalypse, we can control global mean temperature by adhering to the dictates of what is time and time again proving to be, the Globalist economic wrecking ball that is the Catastrophic Climate Change Scam. Indicative of which is Sri Lanka in dutiful and supine stellar Globalist compliance, achieving a 98.1% ESG – Environmental Social Governance score, preceding their 2022 economic collapse,<sup>73</sup> in spite of utopian promises by 2025 of prosperity pledged by the Globalist entities that are the World Economic Forum and World Bank.<sup>74</sup>

Furthermore, the longest continuously measured thermometer-based regional temperature dataset in the world, going back more than 360 years to 1659 in Central England, supplemented with data of CO<sub>2</sub> Emissions from Fossil-Fuel Burning, as shown in figure 4 just below, again provides no “joy” for the Climate Apocalypse narrative:

Figure 4:<sup>75</sup>

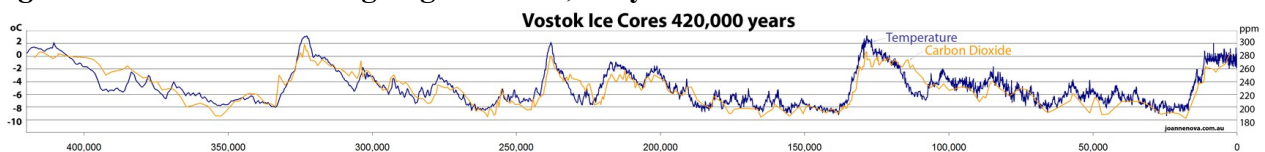


The Central England temperature record (HadCET) contains the longest continuously measured thermometer-based regional temperature dataset in the world, going back more than 350 years.<sup>76</sup> This record began in 1659, in the depths of the Little Ice Age (1250 – 1800) which was marked by some of the coldest temperatures in nearly 8,000 years. The period of the late 17<sup>th</sup> century and early 18<sup>th</sup> century was a horrifically cold period known as the Maunder Minimum. Thankfully, the current warming trend we are in began in the year 1695. The next 40 years to 1735 had more than twice the rate of warming as we experienced in the 20<sup>th</sup> century. The first half of this 300-plus year warming had about the same amount of temperature rise as the latter half and was entirely naturally driven. The natural forces driving temperature changes for the first 200 years of this temperature history did not cease functioning in the 20<sup>th</sup> century,<sup>77</sup> even after the dashed vertical line in 1946, when CO<sub>2</sub> emissions starting to increase at exponential rates due to rapid post-World-War-II industrialisation. To which note, the very similar temperature variability post-1946 compared to pre-1946.<sup>78</sup>

Caleb Rossiter, PhD, formerly a Mathematics and Statistics Professor of American University in Washington, D.C had a statistical analysis published on the CO<sub>2</sub> Coalition website for the period 1900 to 2018, demonstrating that CO<sub>2</sub> was not the cause of warming in this period, titled *Equal Warming, 1900 to 1950 versus 1950 to 2018: Why the UN Knows the First Half was Natural*.<sup>79</sup>

In another twist seemingly at first vindicating, but ultimately confounding the alarmist narrative of CO<sub>2</sub> catastrophically driving temperature, it was in the 1990's, that the classic Vostok Russian Antarctic ice core graph showed temperature and carbon in lock step moving at the same time. Hence initially, it made sense to worry that CO<sub>2</sub> did influence temperature.<sup>80</sup> But by 2003 new data from various sources came in and it was clear that carbon lagged behind temperature. **The link was back to front.**<sup>81</sup> Temperatures appear to control carbon, and while it's possible that carbon also influences temperature these ice cores don't show much evidence of that. After temperatures rise, on average it takes 800 years before carbon starts to move. The extraordinary thing is that the lag is well accepted by climatologists, yet virtually unknown outside these circles.<sup>82</sup> The fact that temperature leads is not controversial. It's relevance is debated.

**Figure 5: Vostok Ice Cores going back 420,000 years**<sup>83</sup>

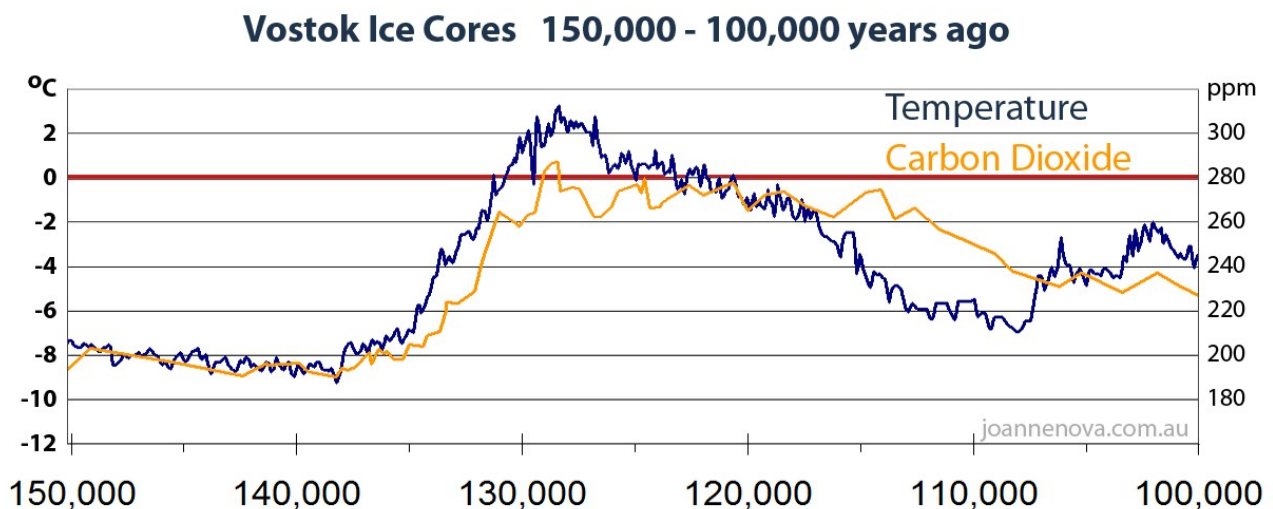


NOTE 1: What really matters here are the turning points, not the absolute levels.

NOTE 2: The carbon data is unfortunately far less detailed than the temperature data. Beware of making conclusions about turning points or lags when only one single point may be involved.

NOTE 3: The period which illustrates the lag the best, and also has the most carbon data is 150,000-100,000 years ago.<sup>84</sup> See the graph in figure 6 immediately below.

**Figure 6:**<sup>85</sup>



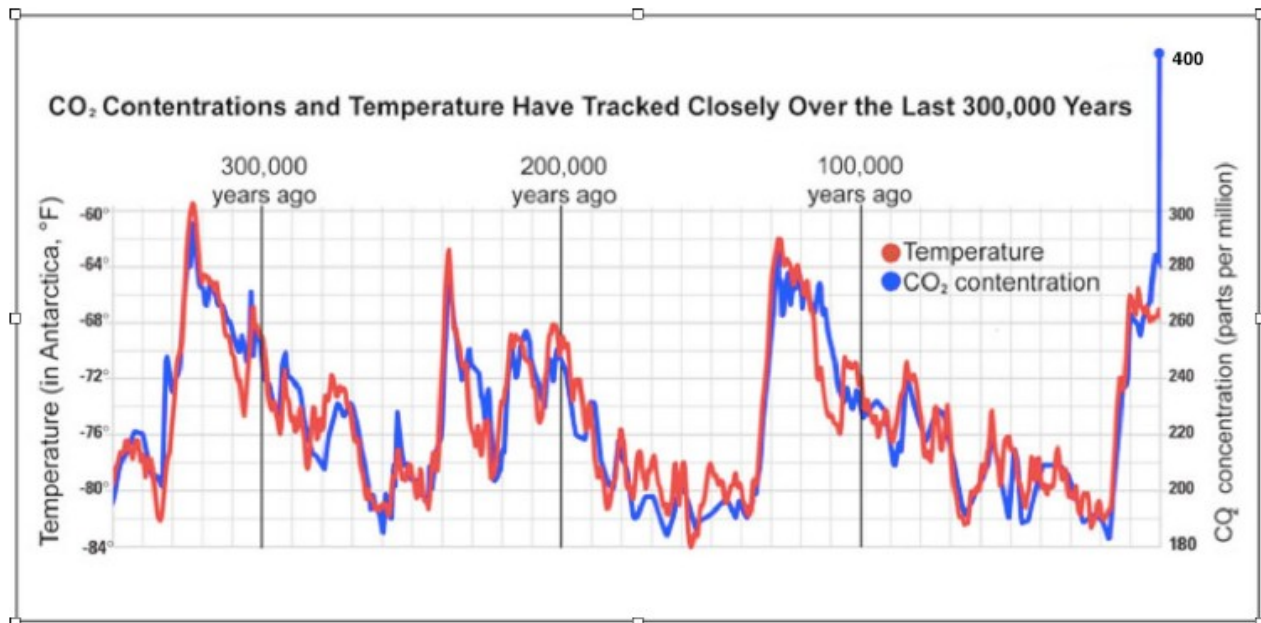
Moreover, figure 7 just below from Patrick Moore in his paper *THE POSITIVE IMPACT OF HUMAN CO<sub>2</sub> EMISSIONS ON THE SURVIVAL OF LIFE ON EARTH BY PATRICK MOORE | JUNE 2016*:

**Figure 7:**<sup>86</sup> Graph just below showing the atmospheric CO<sub>2</sub> concentration and temperature from Antarctica for the most recent four interglacial periods, closely tied to the Milankovitch cycles of 100,000 years. [Rather than former New Zealand Prime Minister and World Economic Forum Young Global Leader Jacinda Adern's assertion of farting and burping cows and sheep!]<sup>87</sup> <sup>iii</sup> This graph is based on data from the 420,000 year record obtained from

<sup>iii</sup> <sup>87</sup> <sup>xiii</sup> This assertion of Adern is as ludicrous as the assertion in an official peer-reviewed academic paper on the website of the American National Institute of Health (NIH) dated September 01<sup>st</sup> 2022 at <https://www.ncbi.nlm.nih.gov/>



the Vostok Antarctic ice cores drilled by Russian scientists.<sup>88</sup> Note the gradual nature of the onset of colder temperatures and the rapid warming at the end of the cycle. Note that the peak warming during the most recent interglacial period (the Holocene) is lower than during the previous three interglacial periods.<sup>89</sup>



Most curious is the fact that the original web link to this Vostok ice core graph, given by Patrick Moore in his June 2016 paper on the positive impact of anthropogenic CO<sub>2</sub> emissions at [http://www.southwestclimatechange.org/figures/icecore\\_records](http://www.southwestclimatechange.org/figures/icecore_records), is now redirected to <https://www.environment.arizona.edu/>.<sup>90</sup> Moreover, according to the WayBack Machine, this occurred in either 2016 or 2017 – with the former, 2016, being the year Patrick Moore wrote his paper. To which one may recall George Orwell when he wrote:

[pmc/articles/PMC9629406/](https://pmc/articles/PMC9629406/) that claims the following in relation to the COVID-19 injections:

*“A mini review of published literature has been conducted and found that mental stress clearly causes vasoconstriction and arterial constriction of the blood vessels. **Therefore, if subjects are panicked, concerned, stressed or scared of the vaccination, their arteries will constrict and become smaller in and around the time of receiving the vaccine.** This biological mechanism (the constriction of veins, arteries and vessels under mental stress) is the most likely cause for where there has been blood clots, strokes, heart attacks, dizziness, fainting, blurred vision, loss of smell and taste that may have been experienced shortly after vaccine administration. The extreme mental stress of the patient could most likely be attributed to the fear mongering and scare tactics used by various anti-vaccination groups.”*

See also the World Economic Forum Agenda Map or “Octopus” and my commentary on my blog at <https://vincebarwinski.com/2022/11/12/my-letter-to-mark-coleridge-catholic-archbishop-of-brisbane-on-saturday-05th-november-2022/> and search for text “*altruistic and admirable*”. This links “social justice” at the centre to both COVID-19 and climate change. Also, directly from the World Economic Forum website at <https://intelligence.weforum.org/topics/a1G0X000006DO9XUAW> which links pandemic preparedness and response directly to climate change and <https://intelligence.weforum.org/topics/a1Gb0000000LHVfEAO> which links climate change to social justice. Hence, the World Economic Forum and their synonymous malevolent actor and [strategic partner: the United Nations](https://www.weforum.org/press/2019/06/world-economic-forum-and-un-sign-strategic-partnership-framework/) (<https://www.weforum.org/press/2019/06/world-economic-forum-and-un-sign-strategic-partnership-framework/>) by lying to us in regard to the so-called “safety and efficacy” of COVID-19 injections AND Climate Change, are by logical inference, **mutually inclusive**. Further vindication of such logical inference, is the documented evidence of the United Nations and its major child entity the World Health Organisation, normalising paedophilia at <https://stopworldcontrol.com/children/>. In short, is it truly plausible that paedophiles are dedicated to saving and safely “vaccinating” the planet?

*“Who controls the past,” ran the Party slogan, “controls the future: who controls the present controls the past.”*

Part One, Chapter III of *1984* by George Orwell.<sup>91</sup>

Some climate alarmists will reluctantly admit the approximately 800-year lag of CO<sub>2</sub> to temperature, but in a desperate attempt to salvage their climate apocalypse narrative, they assert that while CO<sub>2</sub> doesn't start the warming trend, it amplifies it.

On the other hand, climate sceptics state that if CO<sub>2</sub> was a major driver, temperatures would rise indefinitely in a runaway greenhouse effect. This hasn't happened in 500 million years, so either a mystery factor stops the runaway greenhouse effect, or CO<sub>2</sub> is a minor force, and the models are missing the dominant driver.

In short, amplification is speculation. It's a theory with no evidence that it matters in the real world.<sup>92</sup> Moreover, the oceans today hold 45 times the amount of CO<sub>2</sub> that the atmosphere does.<sup>93</sup> Hence, it seems reasonable to surmise, that as temperatures rise, the ocean heats up, decreasing the solubility of CO<sub>2</sub> in it, to ultimately outgas CO<sub>2</sub> to the atmosphere. Which in turn, leads to the beneficial CO<sub>2</sub> fertilisation effect<sup>94</sup> on land based plants. [This will be discussed later.] Moreover, water heats and cools more slowly than landmasses<sup>95</sup> – a fact lending itself ultimately to the lag of CO<sub>2</sub> in relation to temperature as indicated in the Vostok ice core samples.

However, a rabid climate alarmist by the name of Al Gore, Democrat US presidential candidate in 2000, vice president in the Clinton administration from 1993-2001 and member of the World Economic Forum's board of trustees,<sup>96</sup> in his 2006 documentary *An Inconvenient Truth*<sup>97</sup> still made the climate alarmist friendly but erroneous assertion that rising CO<sub>2</sub> levels cause rising temperatures – in spite of the Vostok ice core and Milankovitch cycle data clearly indicating the exact opposite.<sup>98</sup> Nevertheless, and in spite of numerous other documented inaccuracies,<sup>99</sup> in 2007, Al Gore was awarded the Nobel Peace Prize, along with the UN's Intergovernmental Panel on Climate Change, for “informing the world of the dangers posed by climate change”. As Patrick Moore stated: [I paraphrase]

“However, changes in orbit that alter the distance from the Sun along with changes of tilt could quite conceivably cause changes to the Earth's temperature regime. And a change in temperature in the atmosphere also means a change in temperature of the world's oceans causing them to absorb more CO<sub>2</sub> when they cool and to emit more CO<sub>2</sub> when they warm. Moreover, given that the oceans contain almost 50 times as much CO<sub>2</sub> as the atmosphere, just a one percent change in oceanic CO<sub>2</sub> results in a 50 percent change in atmospheric CO<sub>2</sub>.”<sup>100</sup>

The film's distributor, Paramount, warned in its 2006 synopsis of the film:

“Humanity is sitting on a ticking time bomb. If the vast majority of the world's scientists are right, we have just ten year's to avert a major catastrophe that could send our entire planet into a tail-spin of epic destruction involving extreme weather, floods, droughts, epidemics and killer heat waves beyond anything we have ever experienced.”<sup>101</sup>

By November 2012, Paramount removed this apocalyptic but embarrassingly erroneous synopsis!<sup>102</sup> No problem! The good old WayBack Machine furnishes a November 27<sup>th</sup>, 2010 archived copy at [https://web.archive.org/web/20101127132653/http://www.paramountpictures.co.uk/films/an\\_inconvenient\\_truth/index.asp](https://web.archive.org/web/20101127132653/http://www.paramountpictures.co.uk/films/an_inconvenient_truth/index.asp)!

In 2007, a UK High Court judge ruled that Gore's *An Inconvenient Truth* contained nine key scientific errors. While not banning its screening in British schools, judge Michael Burton ruled that it could only be shown with guidance notes to prevent political indoctrination.<sup>103</sup> In 2023 however, the indoctrination of school students as to the so-called indisputable consensus of Catastrophic Climate Change, is ubiquitous.

In Judge Burton's 2007 ruling, it is point 4 that is relevant in regard to the Vostok ice-cores:

“Mr Gore claims that two graphs, one plotting a rise in CO<sub>2</sub> and the other the rise in temperature over a period of 650,000 years, showed ‘an exact fit’. The judge said that, although there was a general scientific agreement that there was a connection, ‘the two graphs do not establish what Mr Gore asserts’.”<sup>104</sup>

“Do not establish what Mr Gore asserts” – namely, that CO<sub>2</sub> does NOT drive temperature, but rather the reverse. Al Gore aired his *An Inconvenient Truth* in 2006, so one would assume he must have known about this crucial piece of evidence.

In regard to sea-level rises being supposedly catastrophic for atolls or coral sand/gravel islands (cays or motu) – one of the old favourites of climate alarmists – it's worth noting that investigations into the processes that govern the formation, evolution, and stability of cays and motu indicate they are very resilient to sea-level changes, provided human activities do not disrupt the natural processes, such as by constructing sea walls (Perry et al., 2011).<sup>105</sup>

Formation of cays and motu requires sufficient sediment supply and sufficient wave energy acting on the reef surface to transport and deposit sediment. Perhaps counter-intuitively, overwashing of the islands by storm waves, storm surges, perigean tides, and tsunami is an important mechanism for increasing the elevation of the island by depositing new layers of sediment (Baines and McLean, 1976; Kench and Brander, 2006; Woodroffe, 2008; Etienne and Terry, 2012).<sup>106</sup>

When sea-level rises, corals grow up to the higher sea-level, normally easily keeping pace even at high rates of sea-level rise. When sea-level rise stops, the coral can grow only sideways. Hence atolls are not a fixed “dipstick” with which to measure sea-level rise, as they are often treated: rather, a living coral reef forms part of a greater dynamic natural system.<sup>107</sup>

Moreover, the very fact that we have so many coral islands in the world, despite a rise in sea level of more than 100 metres since the last ice age, shows coral islands are resilient—they don't drown easily.<sup>108</sup>

In essence, there appears to be an accommodation space, centred on mean sea level, that provides both the sediment and the energy needed to initiate and sustain coral cays and motu. Provided sea-level changes are slower than the rate at which the system can adjust the accommodation space,

cays and motu are sustained. Rates of sea-level change for the foreseeable future are not high enough to threaten islands that are free to adjust in this way.<sup>109</sup>

Connell (2003) found no evidence for the oft-repeated island doomsday claims about Tuvalu. Yamano et al. (2007) assessed 108 years of data for Fongafale Islet, Tuvalu, and found the problems attributed to sea-level rise in fact were due to population pressures resulting in the occupation of swamp land subject to periodic flooding throughout the historical record, thus demonstrating the great importance of real-world data—as opposed to climate model simulations—when it comes to considering the current and future status of Earth’s many low-lying islands.<sup>110</sup> As Yamano et al. (2007) state;

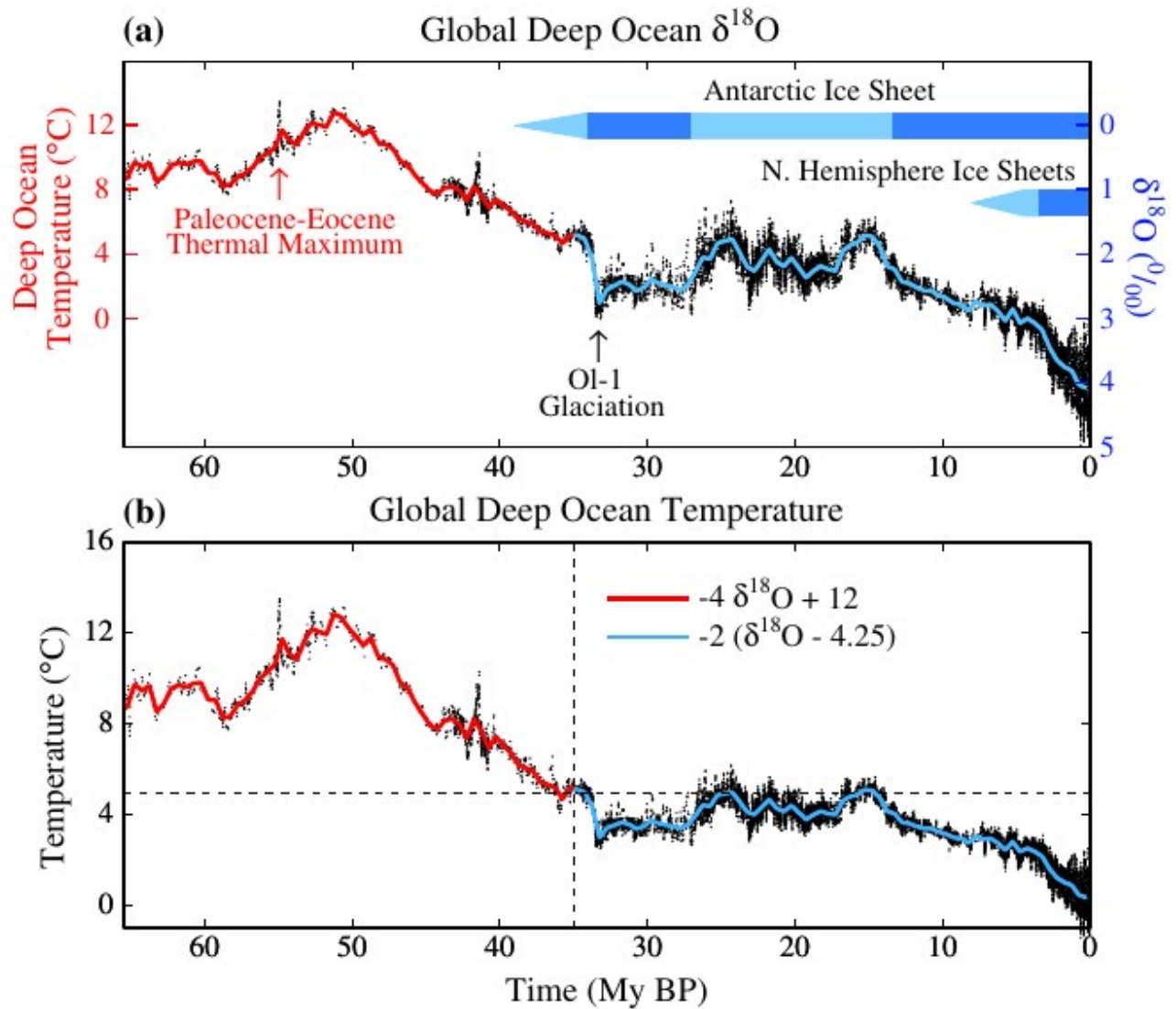
“Examinations of global environmental issues should focus on characteristics specific to the region of interest. These characteristics should be specified using historical Observations: The Hydro-sphere-reconstruction to understand and address the vulnerability of an area to global environmental changes.”<sup>111</sup>

In 2020, with CO<sub>2</sub> at 415 ppm, the Holocene, which started 11,000 years ago, was and still is, much cooler and the sea-level much lower than during three preceding interglacials of the Purfleet (320,000 years ago), the La Bouchet (240,000) and Eemian (130,000) when CO<sub>2</sub> was at 280-300 ppm – much lower than today’s 424 ppm and the level in pre-industrial 1750.<sup>112</sup> (See the peaks in figure 7 for the interglacial periods and figure 2 for the approximate CO<sub>2</sub> level in 1750.) Again, climate alarmists have no explanation for this, as their flawed models based on CO<sub>2</sub> being the sole control knob of temperature, assert that sea-levels today should be much higher than they are today and much higher than any of the three previous interglacials.

Moreover, as indicated in figure 8 just below, the polar ice caps of today, on the geological time scale, are quite recent. The Antarctic ice cap dates back 33 million years ago and the Arctic just 2.6 million years ago.<sup>113</sup> The previous ice age was the Karoo from 360 to 260 million years.<sup>114</sup> Hence, for over 240 million years, the Earth had no polar ice caps. Moreover, Antarctica, which is considerably colder than the Arctic, began to freeze over when the average global temperature was about 6 degrees Celsius warmer than today. There is no way a 2 degrees Celsius rise in temperature will melt Antarctica. It is surrounded by a circumpolar cold current that keeps the warm water from the north away from the southernmost continent.<sup>115</sup> It is possible there will be additional melting in the Arctic, but it is virtually impossible that it will become ice-free in the coming centuries.<sup>116</sup>

**Figure 8: Global Cenozoic Era Ocean temperatures going back 65 million years before the present using <sup>18</sup>O proxies.<sup>117</sup> In regard to <sup>18</sup>O proxies, see the paragraph at endnote 55. A higher ratio of oxygen isotopes <sup>18</sup>O to <sup>16</sup>O implies colder water temperatures.**





The most recent glacial maximum in the Pleistocene Epoch about 20,000 years ago spanned the entire North American continent to even south of the present day United States-Canada border. This ice sheet was about the same size as the Antarctic ice sheet today. During this glaciation, which peaked 20,000 years ago, present day Boston was under 1.25 kilometres of ice and Montreal under 3.3 kilometres of ice. The change in global climate from then to the beginning of this interglacial in the Holocene Epoch, makes our present situation, in which the climate apocalypse narrative is in overdrive, seem like a total non-event, as the sea-level rose 120 metres until all the low-elevation, mid-latitude glaciers melt about 7,000 years ago. (See figures 9, 10 and 11 below)

**Figure 9: Isochrone map of deglaciation of North America, derived from Dyke et al. (2003) from 18,000 to 1,000 years before present.<sup>118</sup>**

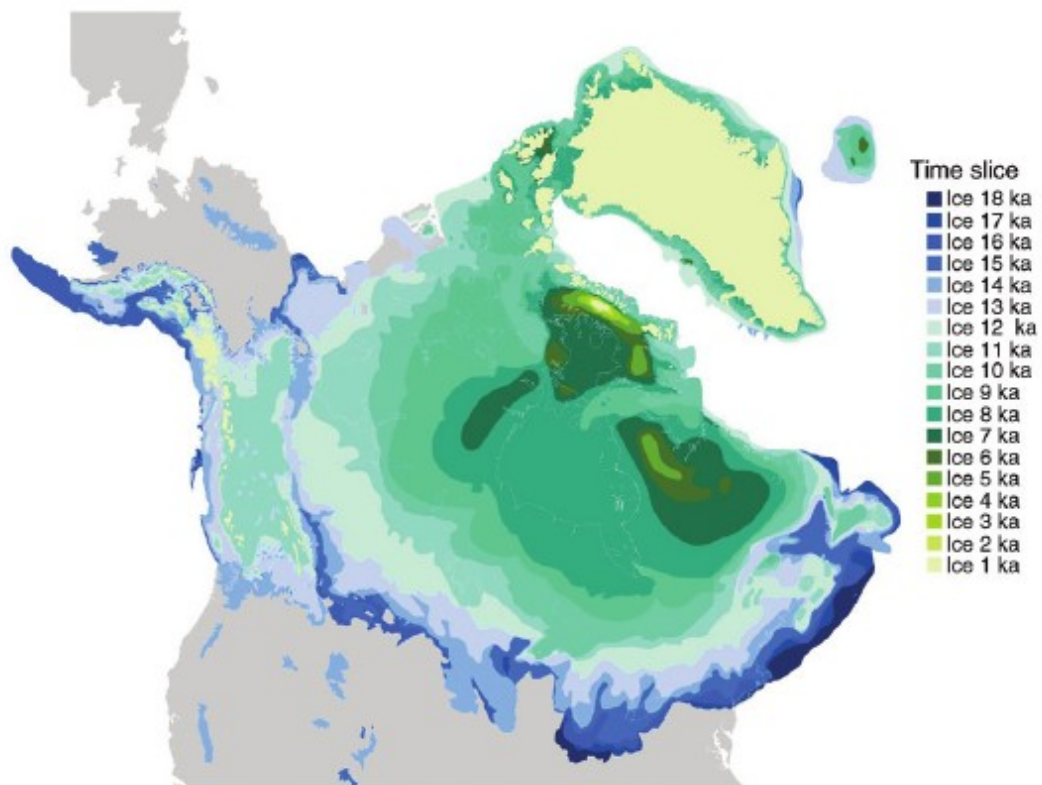


Figure 10:<sup>119</sup>

# THICKNESS OF THE ICE SHEETS AT VARIOUS LOCATIONS 21,000 YEARS AGO COMPARED WITH MODERN SKYLINES

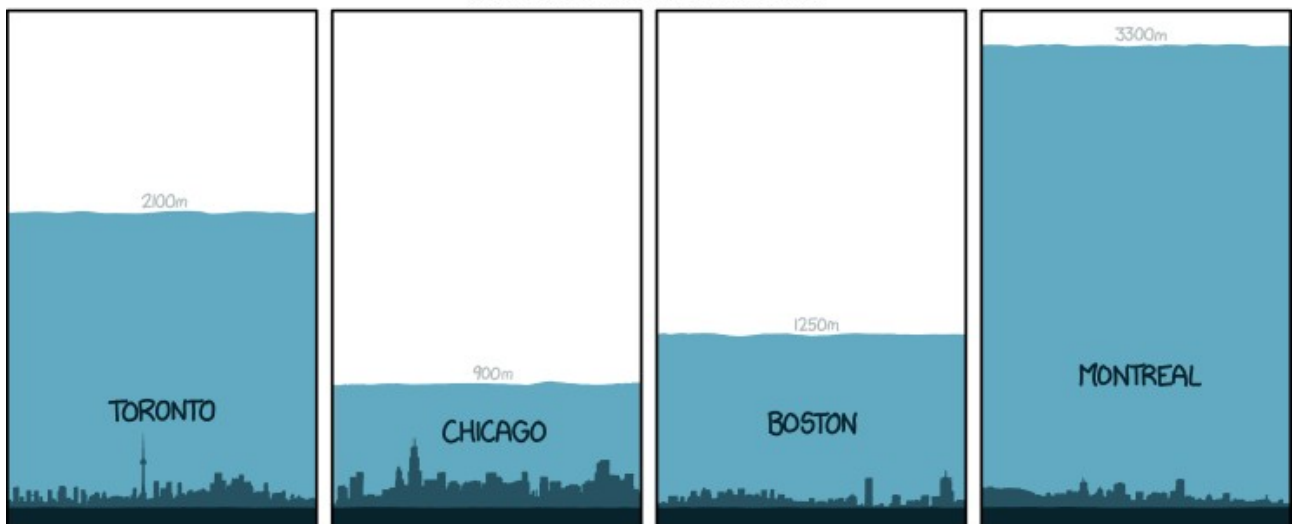
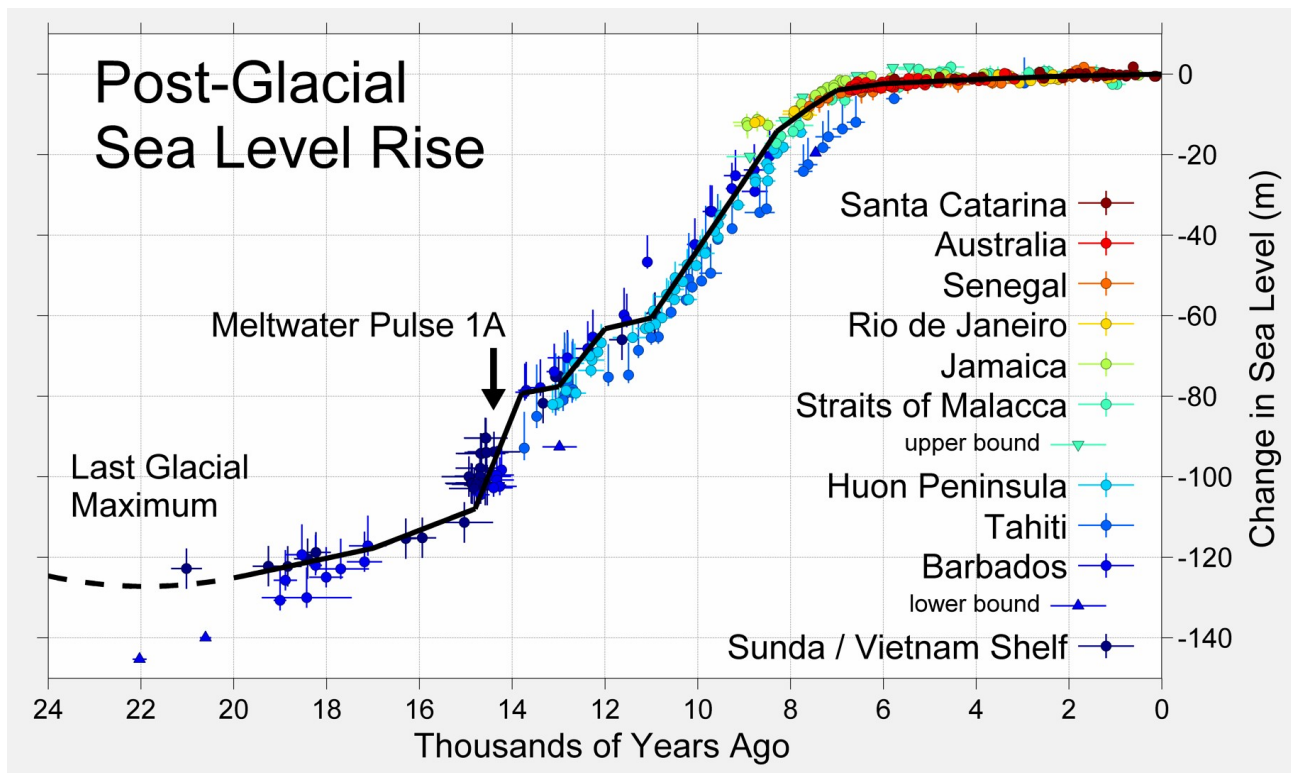


Figure 11: The 120-metre rise in global sea-level coming out of the most recent glacial maximum. During the past 7,000 years the sea-level has fluctuated in concert with the many minor ups and downs in global temperature.<sup>120</sup>



Since then, the sea-level has oscillated a few feet up and down following the relatively minor temperature fluctuations during the past 7,000 years of our Holocene Epoch Interglacial. The change from the Pleistocene glacial maximum about 20,000 years ago to the our present Holocene interglacial was some real climate change. What has occurred with the 1.2 degrees Celsius rise in 1850, is simply part of the minor and quite normal ups and downs during this interglacial.

Perhaps somewhat predictable, is the climate change alarmist narrative of polar bears heading for extinction. However, whenever Patrick Moore speaks at conferences of 100 to 1,000 highly educated science and industry professionals, and asks the question;

“How many of you know about the international treaty signed in 1973 among all polar countries in which they outlawed the unrestricted hunting of polar bears?”<sup>121</sup>

... he finds that it is unusual for even one person to raise their hand! As Patrick Moore expands upon this point of climate apocalypse narrative politicisation:

“That is because the media rarely, if ever mentions it. They parrot the doomsday predictions of ‘scientists’ who are on serial government grants travelling the Arctic for a few weeks each year to ‘study’ the bears.”<sup>122</sup>

This treaty was negotiated and signed into international law on November 15<sup>th</sup>, 1973 in Oslo Norway by the governments of Canada, Denmark [Greenland is Danish territory], Norway, the Union of Socialist Soviet Republics and the United States of America. All these countries have polar bear populations whereupon the *1973 Agreement on the Conservation of Polar Bears*<sup>123</sup> was in response to the harvest of polar bears by recreational hunters and the concurrent concern of signs that their population was declining rapidly.

From 1973 estimates of 6,000 to 12,000, polar bear estimates in 2020 ranged from 22,000 to 31,000 and could well be much higher.<sup>124</sup> Nevertheless, and in the true spirit of agenda science or scientism, National Geographic in their December 2017 issue, showed a clip from a video of a starving polar bear and claimed climate change as the culprit.<sup>125</sup> However, almost nine months later, National Geographic had to admit they had no basis for that claim. This is because the photographer could only find one starving bear to counter the ample first-hand evidence that polar bears today are generally fat and healthy. Moreover, when the National Geographic editors were confronted, they could not contrive a reason as to why the bear was starving. Indeed, to paraphrase Patrick Moore; “when polar bears get old, there are no polar bear retirement homes in the Arctic!”<sup>126</sup> Nevertheless, this video on YouTube at the time of writing, has registered 2.9 million views!<sup>127</sup>

The declining ice at present in the Arctic, [which has been the case every summer for a millenia] is asserted by climate change alarmists to lead to the drowning of polar bears. The thing is, unlike nearly all bear species, polar bears are at home in the ocean and are nicknamed “Sea Bears.” Of course, polar bears occasionally do drown, but then 1.2 million people drown every year. To which, would one blame that on climate change? Well perhaps the WHO in a February 2018 study where it predicts more drownings from future climate change! Moreover, the climate apocalypse narrative assertion that less sea ice is catastrophic for polar bears belies the true mechanism of the Arctic food chain.

Where there is sea ice, especially multi-year ice which is quite thick, not a great a great deal of sunlight gets through to support the growth phytoplankton. In turn, with less phytoplankton, there is less zooplankton, which in turn means less fish, then less seals and ultimately, less bears.<sup>128</sup>

That is not to say that polar bears do not need ice. However, what is implied is that there is an optimal balance between “all ice” and “no ice” for the Arctic food chain. And, with the multi-fold increase in polar bear numbers since 1973, there is no basis for climate alarmist assertions of polar bear extinction. Moreover, for indigenous communities such as the Inuit, who attend funerals of friends and relatives killed by polar bears – there are too many of them!<sup>129</sup> One can thus infer, that the vast majority of the 2.9 million views to date of the National Geographic February 2018 YouTube clip<sup>130</sup> of the starving polar bear on the Nunavut Territory’s Baffin Island, are abjectly ignorant of such resoundingly relevant facts.

The approximately 150,000 Inuit indigenous people of the Arctic; number about 65,000 in Canada, 50,000 in Greenland and about 16,000 each in Alaska and Russia.<sup>131</sup> Their history goes back three to four thousand years, so they have seen more than the odd polar bear or two. Today, most of them live in small coastal villages where they experience the full cycle of life and depend on much of it for their food.<sup>132</sup> As the Inuit of the Canadian Nunavut Territory put it, in their November 2018 draft plan:

“There are too many polar bears in parts of Nunavut and climate change hasn’t yet affected any of them, says a draft management plan from the territorial government that contradicts much of conventional scientific thinking.

The proposed plan — which is to go to public hearings in Iqaluit on Tuesday — says that growing bear numbers are increasingly jeopardizing public safety and it's time Inuit knowledge drove management policy.”<sup>133</sup>

and

“Scientists say only one population of bears is growing; Inuit say there are nine. Environment Canada says four populations are shrinking; Inuit say none are.”<sup>134</sup>

and

“Its [Government of Nunavut] position is strongly supported by the 11 Inuit groups and hunters’ organizations [*rather than Canadian scientists based almost exclusively within just 200 kilometres from the US border*] that made submissions.

‘(Inuit knowledge) has not always been sufficiently incorporated by decision-makers,’ says a document submitted by Nunavut Tunngavik Inc., the Inuit land-claim organization. ‘The disconnect between the sentiment in certain scientific communities [beholden to the Climate Apocalypse narrative] and (Inuit knowledge) has been pronounced.’”<sup>135</sup>

Curiously, this Huffington Post article, by early May 2021,<sup>136</sup> had been removed – but is still available on the WayBack Machine.<sup>137</sup> Moreover James Eetoolook, vice president of Nunavut Tunngavik Inc., says;

“Inuit have long-known the Baffin Bay polar bear population was healthy.”<sup>138</sup>

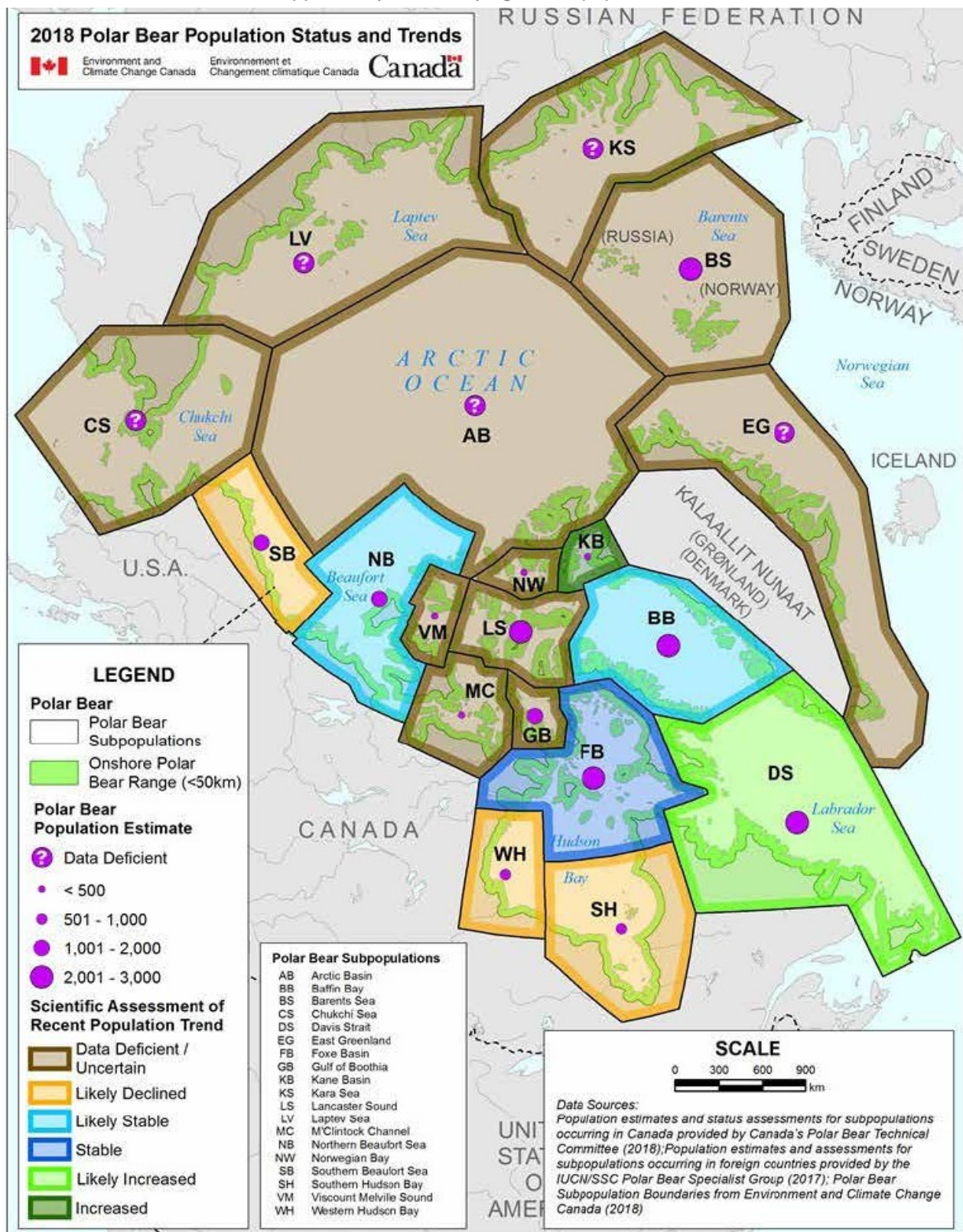
This of course flies in the face of the just aforementioned February 2018 National Geographic clip of the clearly atypical starving polar bear on the Nunavut Territory’s Baffin Island.<sup>139</sup>

Yet in spite of all this, many polar bear scientists continue to predict a decline in polar bear populations. Dr. Susan Crockford of Victoria British Columbia, in her report *The State of the Polar Bear 2019*<sup>140</sup> in daring to contradict the Polar Bear extinction sub-narrative consistent with its parent narrative of Climate Apocalypse (*see figure 12A just below and 12B immediately following.*), has become the target of academic vilification in the agenda driven paper *Internet Blogs, Polar Bears and Climate Change Denial by Proxy*<sup>141</sup> written by Jeffrey A. Harvey and 13 others. In this paper, Susan Crockford was mentioned 18 times and labelled a so-called “science-denier” – a term which appeared overall 33 times.<sup>142</sup>

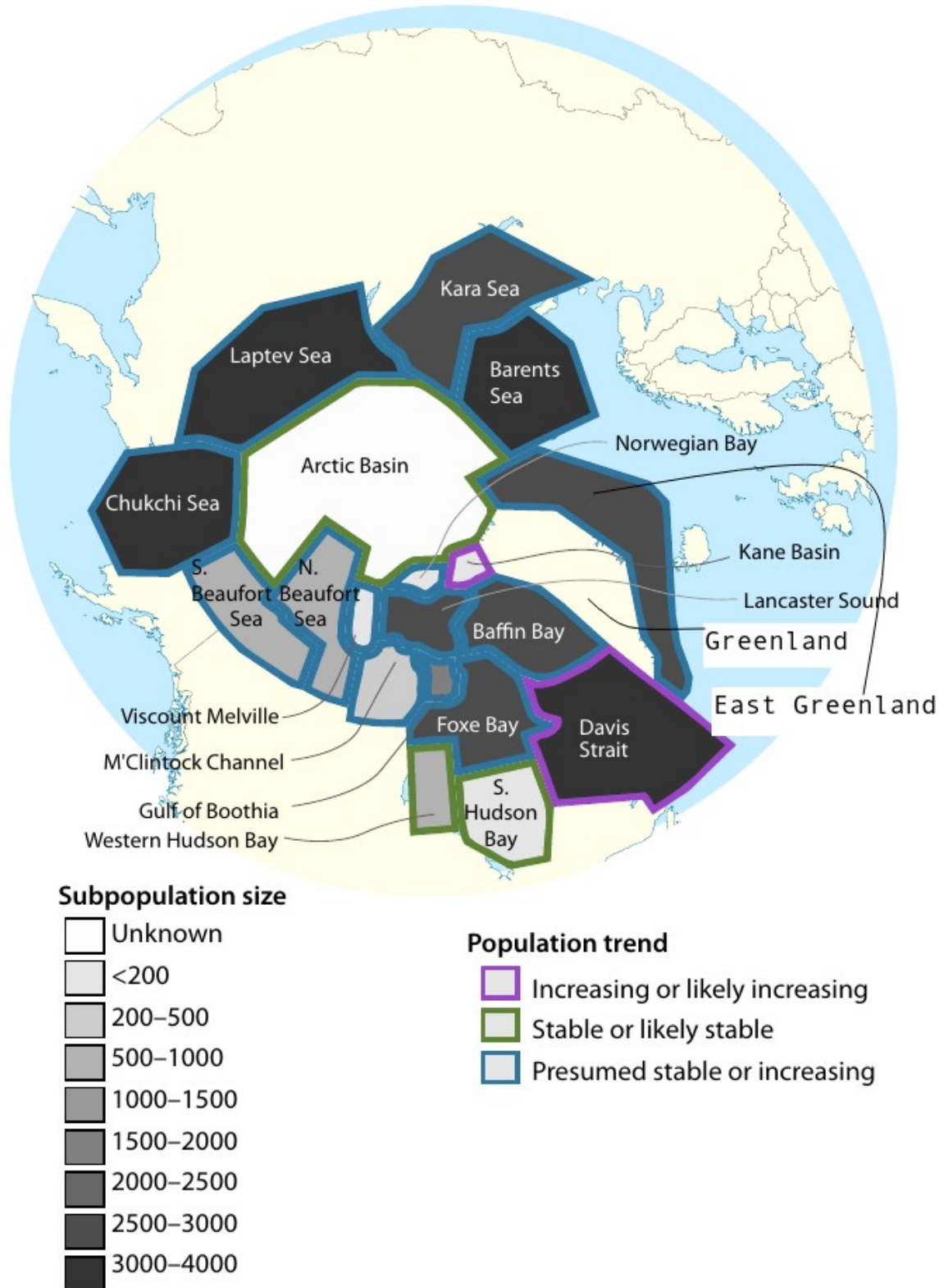


**Figure 12A: Polar bear population KB is Kane Basin and WH Western Hudson Bay and SH Southern Hudson Bay.<sup>143</sup> NOTE: As Susan Crockford alludes to, this map is biased in that it uses biased probable population declines that are not backed by statistically significant population declines. See figure 12B just following for her adjusted map.**

The Canadian government considers the polar bear a species of 'Special Concern.' Note KB is 'increased' which is difficult to discern from 'data deficient' because of the color scheme chosen. The 'likely declined' status for WH and SH is not supported by statistically significant population declines.



Accordingly, *Figure 12B*<sup>144</sup> shows a more realistic representation of current polar bear population trends, which gives the following classification totals at 2018 which had not been changed in 2019. (See the summary immediately following the map.)



1) Two “increased” or “likely increased” [KB,DS]



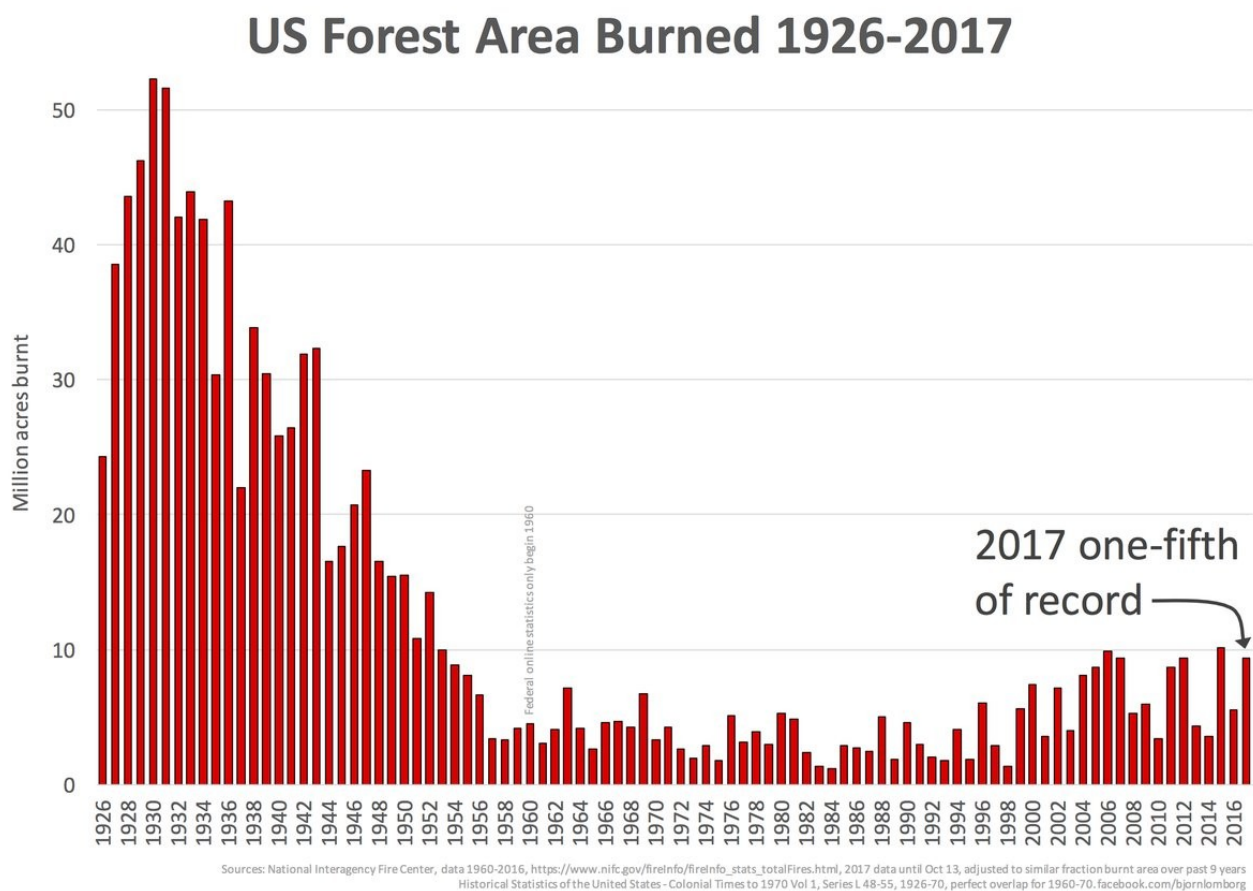
2) Three “stable” or “likely stable” [WH, SH, AB]

3) Thirteen presumed “stable” or “increasing” [EG, LS, AB, VM, NB, GB, MC, BB, BS, KS, CS, NB, FB]<sup>iv</sup> 145

Hence, it would be safe to assume that the indigenous Inuit of the sparsely populated and remote Nunavut Territory would be far more inclined to agree with Susan Crockford than the agenda of scientists beholden to government agencies from Canada’s much more densely inhabited deep south.

However, perhaps even more nefarious than the polar bear subterfuge, is the episode of rewriting the history of US forest fires in order to again facilitate the Catastrophic Climate Change agenda.

**Figure 13:**<sup>146</sup>



Patrick Moore in his January 2021 book *Fake Invisible Catastrophes and Threats of Doom* quoted the raw data source for this graph of figure 13 from the website of the US National Interagency Fire Center. However now, all the data before 1983 has been removed ostensibly because:

“Prior to 1983, the federal wildland fire agencies did not track official wildfire data using current reporting processes. As a result, there is no official data prior to 1983 posted on this site.”<sup>147</sup>

<sup>iv</sup> NOTE: Susan Crockford I assume inadvertently stated “LS” twice, which makes the total thirteen as I stated here. I also added labels for the unlabelled Greenland and East Greenland bear populations based on the previous figure 12A.



According to the raw data upon which the above graph was compiled, the fires from 1950 and before, in another inconvenient truth for the Climate Apocalypse narrative, were much worse than anything this century. Is it truly feasible that data pre-1983 or indeed pre-1950, could be so inherently unreliable by orders of magnitude? And what agenda was indeed served, decades before the Catastrophic Climate Change narrative was ever conceived? As such, this explanation from the US government agency that is the National Interagency Fire Center, seems contrived at best and hence, once again, recalls George Orwell's 1984:

*"Who controls the past," ran the Party slogan, "controls the future: who controls the present controls the past."*

Part One, Chapter III of *1984* by George Orwell.<sup>148</sup>

In a WayBack machine archived copy dated 25<sup>th</sup> June, 2011, curiously, the data went back to 1960, but a caveat again referencing 1983 states:

"Figures prior to 1983 may be revised as NICC [National Interagency Coordination Center] verifies historical data. Stats after 1983 were compiled by states and agencies."<sup>149</sup>

The archived page that has the entire data set from 1926 to 2017, is curiously dated 10<sup>th</sup> August, 2018, more than seven years following the 2011 copy. Nevertheless, they still have their convenient caveat referencing 1983:

"The National Interagency Coordination Center at NIFC compiles annual wildland fire statistics for federal and state agencies. This information is provided through Situation Reports, which have been in use for several decades. Prior to 1983, sources of these figures are not known, or cannot be confirmed, and were not derived from the current situation reporting process. As a result the figures prior to 1983 should not be compared to later data."<sup>150</sup>

Curiously however, I was able to download the source for the raw data figures for 1926 to 1970 from the website of the *FRASER Digital Library – Federal Reserve Bank of St. Louis*.<sup>151</sup> The data from which Patrick Moore noted in his 2021 book in his description of the graph:

"Notice the sharp decline in the 1940s when fire suppression became the precedent for forest management and then the gradual rise from the mid-1990s when the environmental movement began to have more influence, promoting a "hands-off" management approach. This graph illustrates important trends in forest management during the past 95 years."  
[1926 to 2021] <sup>152</sup>

And indeed, in the devastating Australian summer bushfires of 2019-2020:

"The people most to blame for the Australian bush fires are the greens. Just like in California, their tree-hugging Gaia worship blinded them to the reality that forests need regular clearance and maintenance if they are not to become a major fire hazard. Some Australian politicians on the right side of the argument are well aware of this:

‘The problems we have got have been created by the Greens,’ Mr [Barnaby] Joyce told The Australian.

‘We haven’t had the capacity to easily access (hazard) reduction burns because of all of the paperwork that is part of green policy.’

‘We don’t have access to dams because they have been decommissioned on national parks because of green policy. We have trees that have fallen over vehicles and block roads, so people cannot either get access to fight a fire or to get away from fires. And we can’t knock over the trees because of Greens policy.’

Deputy Prime Minister Michael McCormack has lashed the ‘disgraceful, disgusting’ behaviour of ‘raving inner-city lunatics’ for linking climate change to the ferocious bushfires burning across Queensland and NSW.

Yet still, in large parts of Australia, it remains illegal to remove trees from your land even in order to create fire breaks and protect your property — despite the obvious risk this ban creates to homeowners living in potential bush-fire zones. Trees have been designated a ‘carbon sink’, which supposedly offset Australia’s CO<sub>2</sub> emissions.”<sup>153</sup>

The Australian Greens claim they support hazard reduction burning, however, it is conditional upon many restrictions,<sup>154</sup> which confirms Barnaby Joyce’s claim of “We haven’t had the capacity to easily access (hazard) reduction burns because of all of the paperwork that is part of green policy.”<sup>155</sup> Moreover, from Roger Underwood of the Quadrant on the Bushfire-Industrial Complex:

“Bushfire research also benefits. I would not mind this — if the right sort of research was being funded. Instead, we see academics in Australian universities who are actively undermining effective bushfire management and who are lavishly funded by the federal government either directly, or via the Bushfire CRC. These “bushfire academics”, nearly all of them opposed to fuel reduction, know that large, horrible bushfires will underpin the security of their research grants, guarantee future funding and ensure all those desirable academic side-effects such as overseas conferences, publishable papers, and graduate students.

The climate change industry is also benefiting. Because governments have been taken in by the scam advice that “climate change is causing bushfire disasters”, or because they think that if they give them enough money the climateers will go away, enormous sums are being poured into projects and research studies that, from the bushfire perspective, are a total waste of time. There is no question that the renewable energy industry has been (albeit indirectly) a significant beneficiary of large, damaging bushfires.”<sup>156</sup>

And Miranda Devine on the deadly February 2009 bushfire in the Kinglake area just north of Melbourne, which killed 173 people:

“The Kinglake area was a nature-loving community of tree-changers, organic farmers and artists to the north of Melbourne. A council committed to reducing carbon emissions dominates the Nillumbik shire, a so-called "green wedge" area, where restrictions on removing vegetation around houses reportedly added to the dangers. In nearby St Andrews, where more than 20 people are believed to have died, surviving residents have spoken angrily of ‘greenies’ who prevented them from cutting back trees near their property, including in one case, a tea tree that went ‘whoomp’. Dr Phil Cheney, the former head of the CSIRO’s bushfire research unit and one of the pioneers of prescribed burning, said yesterday if the fire-ravaged Victorian areas had been hazard-reduced, the flames would not have been as intense.”<sup>157</sup>

To which, in a letter to Australian Greens politicians in August 2022, I asked:

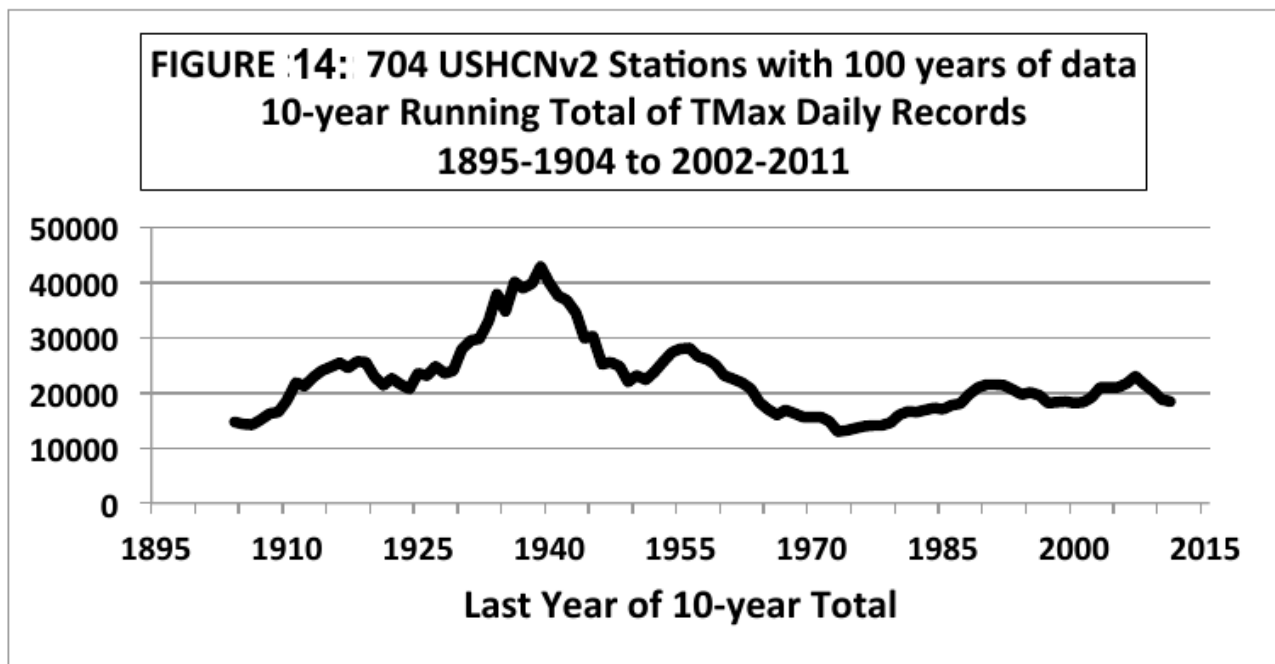
“And do you support the WEF’s [World Economic Forum] ‘Space Bubble shield concept to counter the effects of climate change by reflecting the sun’s rays’??<sup>158</sup> A proposal one could see spawning from the evil head of Spectre from James Bond or Dr. Evil from Austin Powers. Hmmm ... the executive chair of the WEF, Klaus Schwab, seems to fulfil that role perfectly .... although minus the Persian cat! (Not that I have anything against cats!)”<sup>159</sup>

At the time of writing, nine months later, I am still yet to receive a reply. To which it is worth noting that the South Australian Greens senator Sarah Hansen-Young is one of Klaus Schwab’s “Young Global Leaders.”<sup>160</sup> Which in turn prompts the question;

“Would she indeed support Schwab’s Space Bubble shield concept to counter the effects of climate change by reflecting the sun’s rays”??

After all, is such an idea more bizarre than Jacinda Adern’s masks for burping cows?

Interestingly, a corollary to the record number of US fires during the 1930s, is the corresponding run of record high temperatures of that decade as testified by John R. Christy, PhD, Alabama State Climatologist at the University of Alabama in Huntsville, who testified at the House Energy and Power Subcommittee on September 20, 2012.<sup>161</sup>

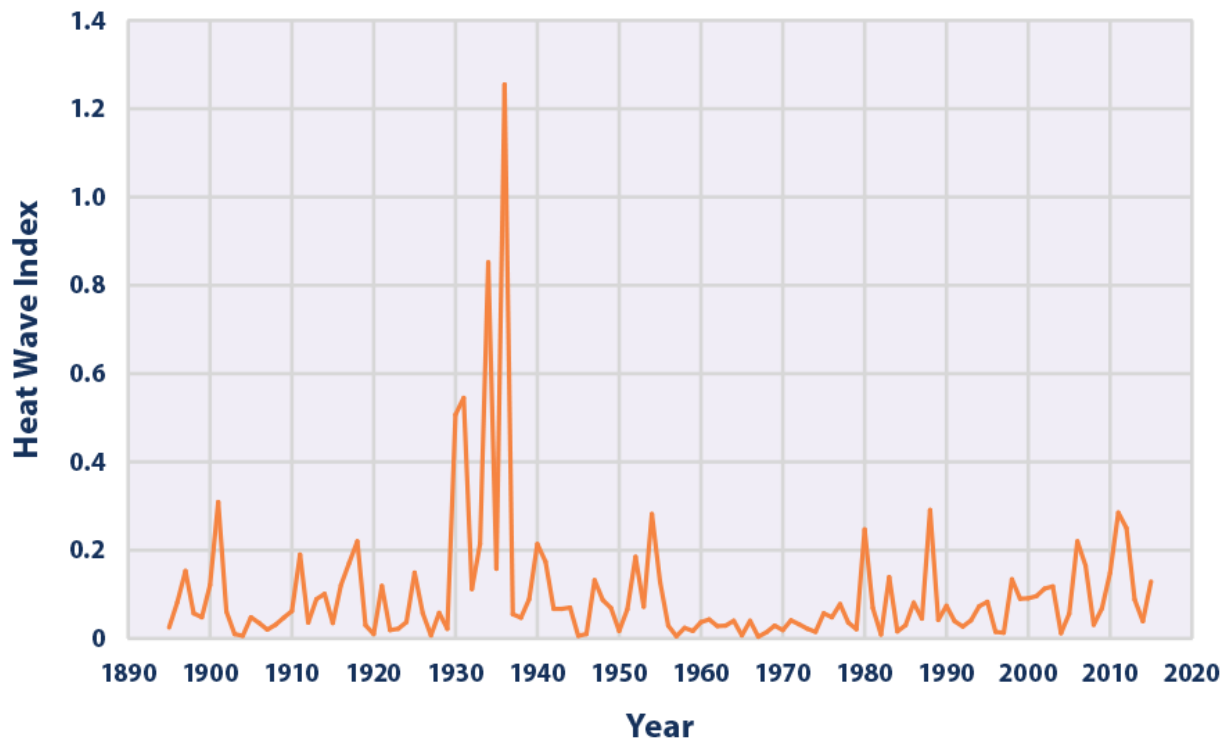


John Christy stated that a more meaningful result comes if one takes the total record highs by ten-year intervals, i.e. 1895-1904, 1896-1905, ... 2002-2011 as given in figure 14 above for the record daily highs for 704 stations with at least 100 years of data.<sup>162</sup> As Christy iterates, the use of data from stations with a century worth of data is crucial.

“The clear evidence is that extreme high temperatures are not increasing in frequency. The recent claims about thousands of new record high temperatures were based on stations whose length-of-record could begin as recently as 1981, thus missing the many heat waves of the 20<sup>th</sup> century. So, any moderately hot day now will be publicized as setting records for these young stations because they were not operating in the 1930s. **The figure below [figure 14 here] gives what a climatologist would want to know because it uses only stations with long records.**”<sup>163</sup> [My emphasis added.]

Correspondingly, look at the record low number of bush fires for the US from 1970 to 1980 in figure 13 and the concurrent low temperatures for that period from figure 14. Moreover, why is John Christy’s congressional written testimony on September 20, 2012 now only available on the WayBack Machine? And why did the American EPA – Environmental Protection Agency in mid-May 2021, remove the 1930s Drought and Heat Wave Climate Data?<sup>164</sup> See figure 15 just below.

**Figure 15: U.S. Annual Heat Wave Index, 1895–2015<sup>165</sup>** Note the stark heatwave of the 1930s with its synonymous drought.



As the American EPA still documented on May 10<sup>th</sup>, 2021,<sup>166</sup> but removed within two days later:<sup>167</sup>

“Heat waves in the 1930s remain the most severe heat waves in the U.S. historical record (see Figure 1) [Figure 15 above here.]. The spike in Figure 15 reflects extreme, persistent heat waves in the Great Plains region during a period known as the ‘Dust Bowl.’ Poor land use practices and many years of intense drought contributed to these heat waves by depleting soil moisture and reducing the moderating effects of evaporation.”

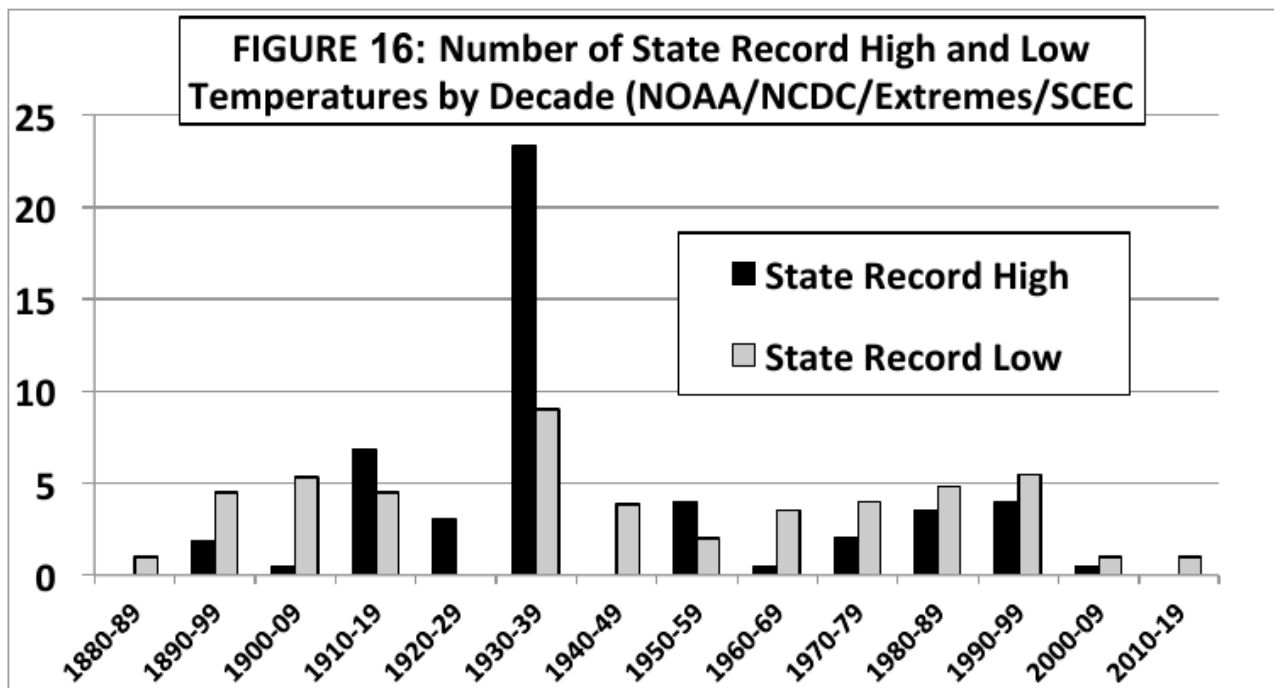
Moreover, according to NASA:

“A new study using a reconstruction of North American drought history over the last 1,000 years found that the drought of 1934 was the driest and most widespread of the last millennium.

Using a tree-ring-based drought record from the years 1000 to 2005 and modern records, scientists from NASA and Lamont-Doherty Earth Observatory found the 1934 drought was 30 percent more severe than the runner-up drought (in 1580) and extended across 71.6 percent of western North America. For comparison, the average extent of the 2012 drought was 59.7 percent.”<sup>168</sup>

To which it’s worth noting, according to John Christy’s 2012 Congressional testimony, about 75 percent of the states recorded their hottest temperature prior to 1955, and, over 50 percent of the states experienced their record cold temperatures after 1940. Overall, only a third of the records (hot

or cold) have been set in the second half of the whole period. One could conclude, if they were so inclined, that the climate of the US is becoming less extreme because the occurrence of state extremes of hot and cold has diminished dramatically since 1955.<sup>169</sup> See figure 16 just below.<sup>170</sup>



Another favourite sub-narrative of the overall CO<sub>2</sub> Climate Apocalypse, is that of CO<sub>2</sub> ostensibly driving dramatic increases in tornadoes and hurricanes. To which in December 2021, U.S. “President” Joe Biden, given the Democrats being inextricably entwined in the Climate Apocalypse narrative, dutifully in the wake of the tornado tragedy that claimed nearly 100 lives in Kentucky, Illinois, Arkansas, Tennessee, and Missouri, parroted the following:

“All I know is that the intensity of the weather across the board has some impacts as a consequence of the warming of the planet and climate change,” Biden said. “The fact is that we all know everything is more intense when the climate is warming. Everything. And obviously it has some impact here.”<sup>171</sup>

Is Biden’s assertion true? Gregory Wrightstone of the CO<sub>2</sub> Coalition iterated that the answer you will surely not find at the federal agency most responsible for monitoring such things – namely the National Oceanic and Atmospheric Administration (NOAA) .

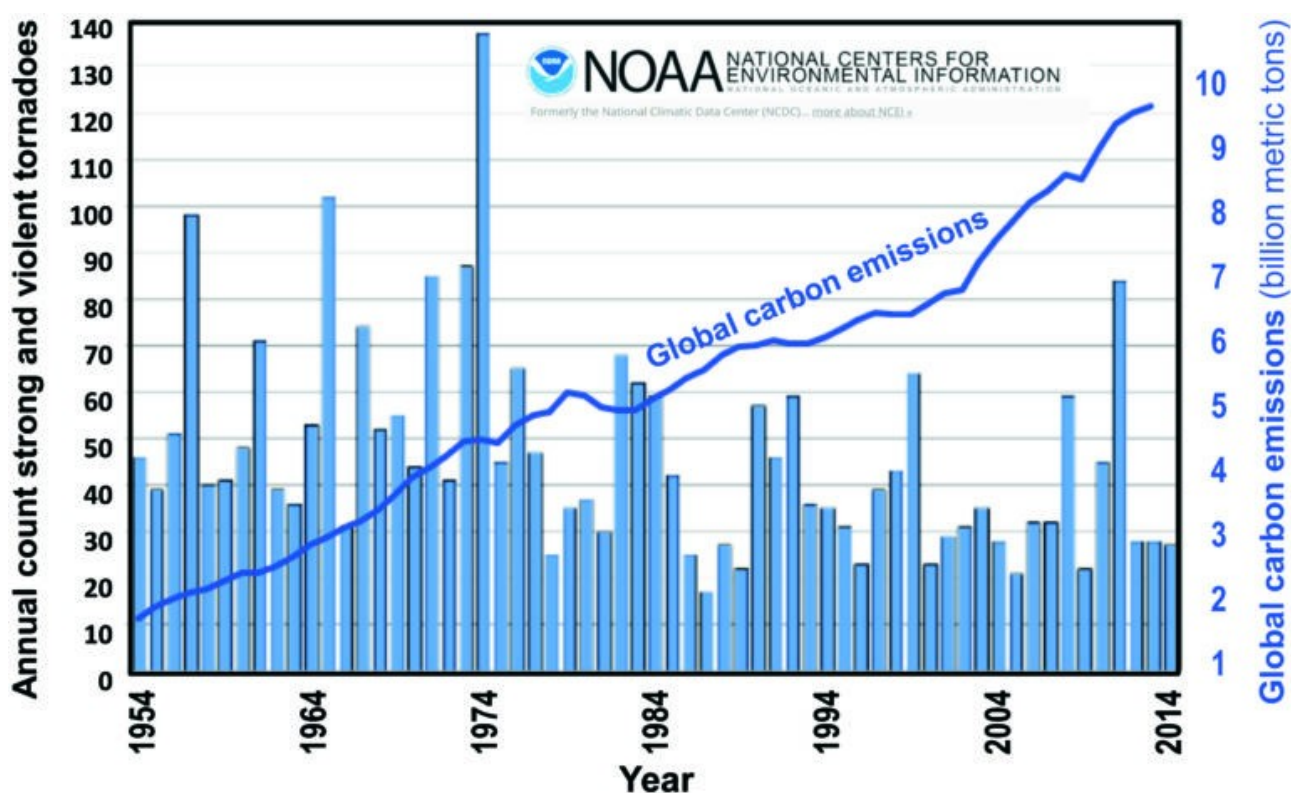
In 2017, while researching tornado data, Wrightstone archived the NOAA site’s page on tornadoes and data. At the time, NOAA specifically warned that pre-Doppler radar records of tornadoes (before 1995) are unreliable:

“One of the main difficulties with tornado records is that a tornado, or evidence of a tornado, must have been observed. Unlike rainfall or temperature, which may be measured by a fixed instrument, tornadoes are short-lived and very unpredictable. A tornado in a largely unoccupied region is not likely to be documented. Many significant tornadoes may not have

made it into the historical record since Tornado Alley was very sparsely populated during the early 20<sup>th</sup> Century.”<sup>172</sup>

This original link for the above statement is now a dead link, but seems to have been replaced by a much more Climate Apocalypse friendly narrative and graph,<sup>173</sup> which incorporates data for all tornadoes, rather than just more severe tornadoes categorised above EF = 3<sup>v</sup> – as was the case in the 2017 article Wrightstone accessed. In other words, NOAA recommended (at the time) only using the strongest tornadoes as a measure of pre-Doppler [1995] numbers and provided the figure 17 chart following that documented an overall decrease in the number of strong and violent storms that were categorized as EF > 3. [Wrightstone usefully added the plot for global CO<sub>2</sub> emissions.]<sup>174</sup>

**Figure 17: US Annual count of strong to violent tornadoes (EF3+) 1954 to 2014<sup>175</sup>**



In his December 2021 CO2 Coalition article, Wrightstone stated that:

“... accessing the very same link for NOAA today takes one to their latest iteration, which showcases a chart of ALL tornadoes dating back to 1950 and shows a steady and significant rise in the number of tornadoes from 1950 to the late 1990s. Bear in mind, that just a few years ago, NOAA specifically warned against using exactly this data because it would under-count the numbers before 1995.”<sup>176</sup> [Namely, the advent of the Doppler Radar.]

The thrust of Wrightstone’s statement is still true at the time of writing in early June 2023, albeit with a modified NOAA link but still with the graph for ALL tornadoes in the following figure 18 –

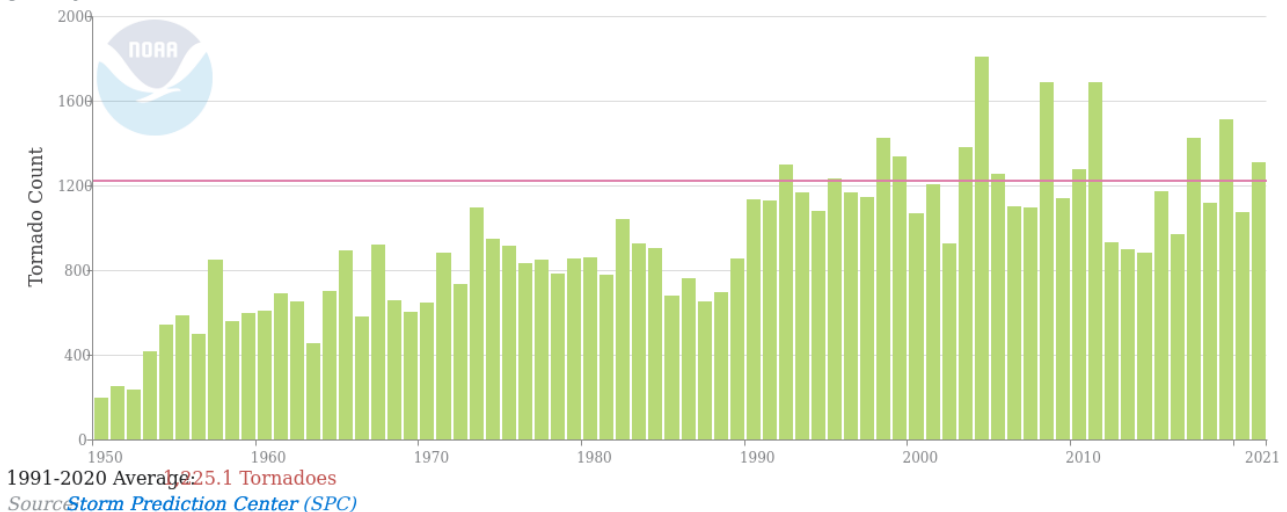
<sup>v</sup> EF – The Enhanced Fujita Scale. See <https://www.weather.gov/grb/efscale>.

which of course contradicts there advice in the WayBack Machine archived copy from early February 2017.

**Figure 18: Plot for present official NOAA plot for all tornadoes from 1950 to 2021.<sup>177</sup>**

### U.S. Tornadoes

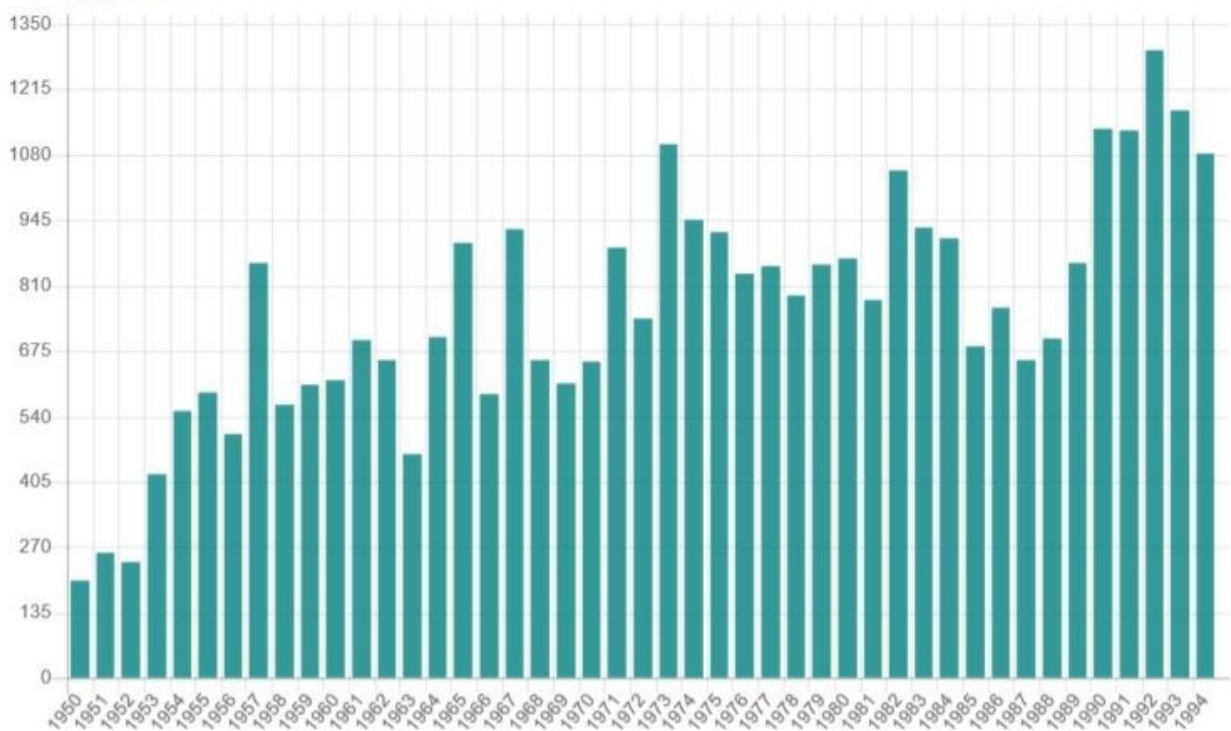
January-December



Updated data on tornadoes through 2020 is available at [ustornadoes.com](https://ustornadoes.com)<sup>178</sup> and showcases just why using pre-Doppler data is misleading. Figure 19 below shows the pre-Doppler numbers [pre-1995] of tornadoes reported. **Importantly, this is not capturing increasing actual numbers of tornadoes that occurred, but rather increased reporting.**<sup>179</sup>

**Figure 19: Pre-Doppler or pre-1995 tornadoes.<sup>180</sup>**

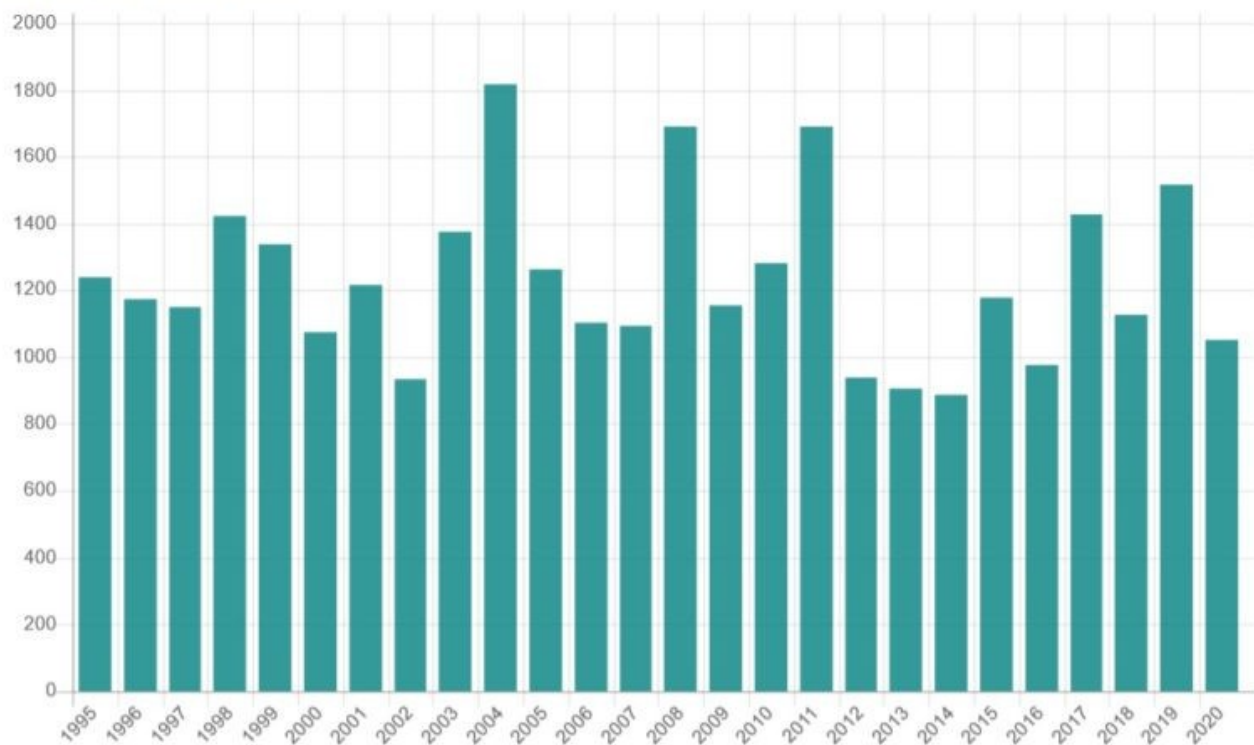
### Pre-Doppler tornadoes





**Figure 20: Doppler era or post-1994 tornadoes.<sup>181</sup> It shows no increase for ALL tornadoes.**

**Doppler-era tornadoes**



As Gregory Wrightstone sums up in his conclusion:

“All of this begs the question: Why would a government agency promote flawed data? The answer is simple: It “confirms” their preconceived notion of increasing severe weather and provides support for alarming claims of ever-increasing death and destruction.

**You can be sure that Joe Biden will not be the last to use these deaths and this tornado deception to spread fear and alarm to support their plans to spend trillions of dollars to solve a non-existent climate crisis.** The Biden administration should “follow the science” [not the scientism] and get to the business of helping the victims and stop spreading misinformation.”<sup>182</sup>

Moreover, as John Christy stated in his House Energy and Power Subcommittee testimony on September 20, 2012:

**The evidence above suggests that climate models over-react to greenhouse gas increases.** Also there is a lack of evidence to blame humans for an increase in extreme events. One cannot convict CO<sub>2</sub> of causing any of these events, because they’ve happened in the past before CO<sub>2</sub> levels rose. Even so, using these climate model simulations we can calculate that the theoretical impact of legislation on the global temperature is essentially imperceptible (Christy JR, House Ways and Means Testimony, 25 Feb 2009). In such calculations we simply run the model with and without the proposed changes in greenhouse

gases to see the difference in the models' climates. **The result is that actions will not produce a measurable climate effect that can be attributable or predictable with any level of confidence, especially at the regional level.**<sup>183</sup> [Note again, this testimony is now only available on the WayBack Machine.]

Of much broader and parallel concern, is how science in general has become abjectly politicised and corrupt – to which one can draw disturbing parallels with the COVID pandemic (such as the suppression of cheap and effective early treatments like ivermectin and hydroxychloroquine in 2020 – and no, ivermectin is not just a horse drug.)<sup>184</sup> and its synonymous and ostensible vaccines. Embodied in part by the diluted and self-serving re-definition of a “vaccine” in early September 2021 by the American CDC from:

“A product that stimulates a person’s immune system to produce immunity to a specific disease, protecting the person from that disease.”<sup>185</sup> [Thank goodness for the good old WayBack Machine – dated September 1<sup>st</sup>, 2021]

... to merely a cop-out narrative crumbling definition the following day of September 2<sup>nd</sup> 2021:

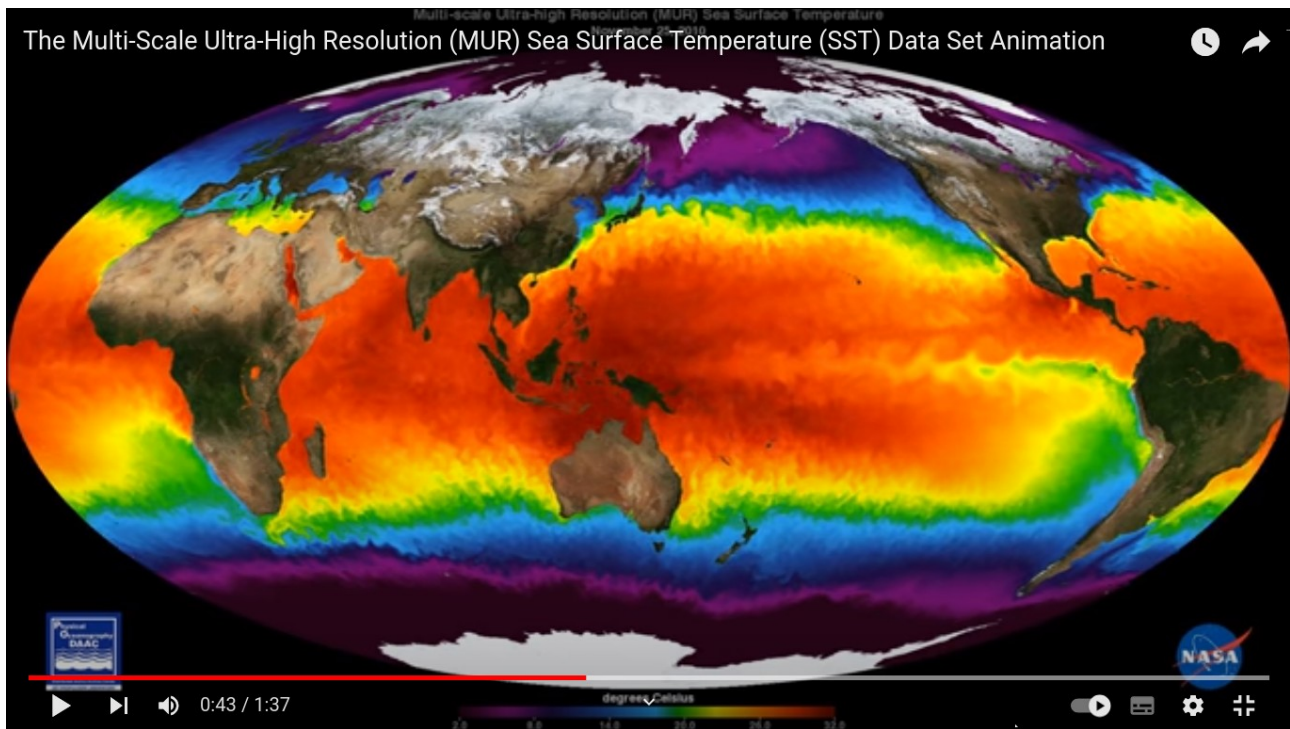
“A preparation that is used to stimulate the body’s immune response against diseases.”<sup>186</sup>

In early 2021, Joe Biden, Anthony Fauci, Bill Gates, Rochelle Walensky and others including our corrupt global mainstream media were saying the vaccines will with virtually 100 percent certainty, stop you from getting COVID and stop the spread. Yet, by mid-2021, the CDC was compelled to chronically downgrade the definition of “vaccine.”<sup>187</sup> Clearly, Joe Biden does not just spread disinformation in regard to the Catastrophic Climate Change Scam.

Finally, there is the anthropogenic climate change notion of warming oceans destroying coral reefs. Firstly, the modern corals evolved from their ancestors 225 million years ago – when the first dinosaurs appeared<sup>188</sup> and the climate was much warmer than today. Moreover, it remained warmer until 2.6 million years ago when the Pleistocene Ice Age set in<sup>189</sup> creating the Arctic Polar ice cap.<sup>190</sup>

Secondly, among the warmest seas in the world are those of the Indonesian Archipelago including the Philippines and the Solomon Islands. Widely known as the Coral Triangle, with the world’s highest biodiversity of coral and reef fish with 600 and 2,000 species respectively. The reason that the Great Barrier Reef of Queensland Australia does not have the same level of biodiversity as the Coral Triangle and other reefs, is that the ocean it occupies is not as warm. (See figure 21 just below.)

**Figure 21: The Multi-Scale Ultra-High Resolution (MUR) Sea Surface Temperature (SST) Data Set combines data from the Advanced Very High Resolution Radiometer (AVHRR), Moderate Imaging Spectroradiometer (MODIS) Terra and Aqua, and Advanced Microwave Spectroradiometer-EOS (AMSR-E) instruments in an optimal way to produce 1km global maps of SST. NASA/JPL Physical Oceanography DAAC.**<sup>191</sup>

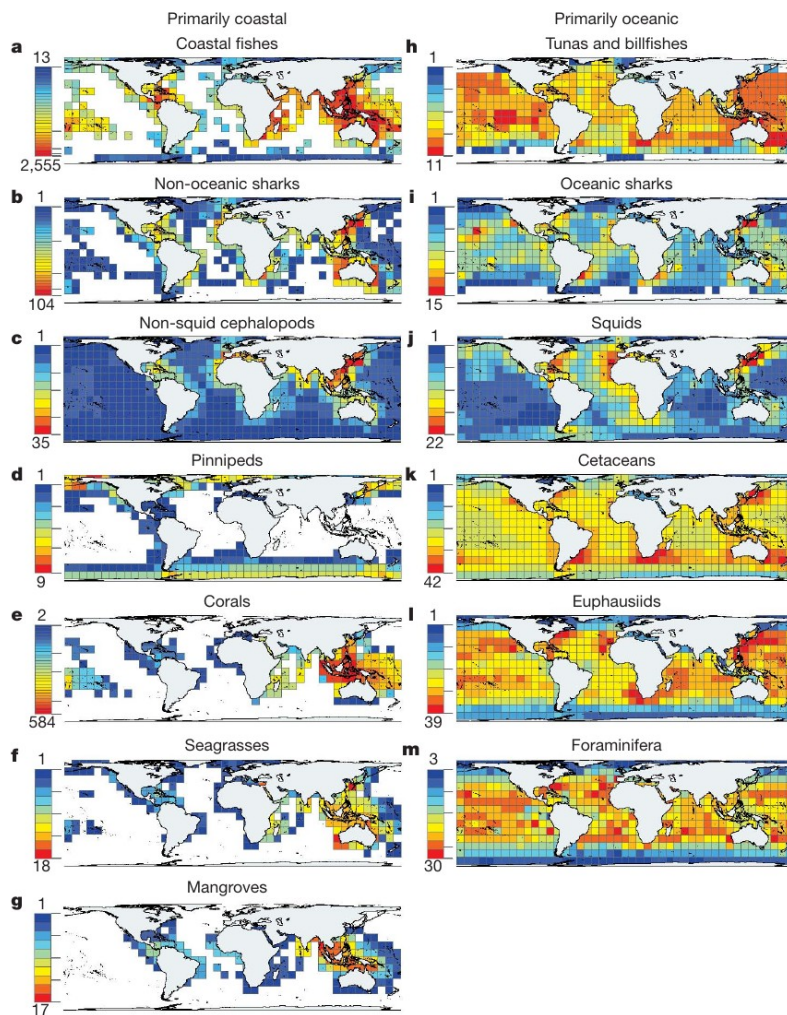


This is confirmed in a study on global marine species diversity which investigated the factors that affect it. The study concluded:

“In accordance with the idea of high kinetic energy (heat) facilitating greater species richness over evolutionary and ecological timescales, temperature emerged as the primary environmental correlate of diversity at the large geographic scale tested here.”<sup>192</sup>

The following global marine biodiversity maps in figure 22 below clearly illustrate this:

**Figure 22:**<sup>193</sup>



**Figure 1 | Patterns of species richness for individual taxa.** a–m, Species groups that primarily occur in coastal (a–g) or oceanic habitats (h–m) are shown. Empirically gathered point data (coastal fishes, foraminifera) were co-kriged using GLM predictions as the co-variable<sup>30</sup> to extrapolate to undersampled regions for display purposes. Horizontal tick marks on colour-bars indicate richness quartiles; colour-scaling is adjusted by taxon to optimize contrast.

And in regard to predictions of doom for the Australian treasure that is The Great Barrier Reef, contrary to what 97% of Australians think, and in spite of its coral cover in 2013 hitting record lows, the Great Barrier Reef coral cover, is now at record highs!<sup>194</sup> In April 2017, Forbes reported that the reef was in its “Final ‘Terminal Stage’” claiming that;

“Australia’s Great Barrier Reef is one of the great natural wonders of the world, a tremendous display of beauty, biodiversity, and a fragile ecosystem. Now, the reef faces mass destruction as a result of warming seas caused by climate change.”<sup>195</sup>

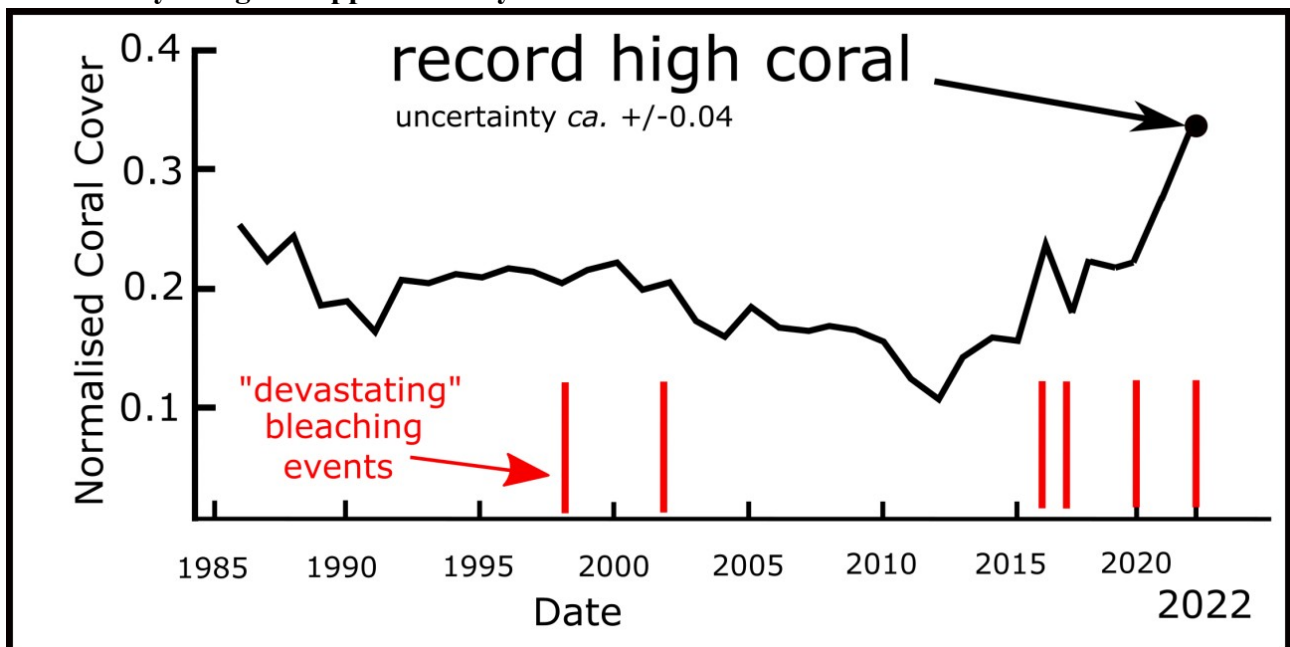
And in May 2017, the left-wing VOX reported; “Experts: The Great Barrier Reef cannot be saved. Two-thirds of the reef is at risk of dying. It’s time to focus on maintaining rather than improving it, scientists say.”<sup>196</sup>

However, almost a year-and-a-half later in September 2018, following the globally declared so-called terminal demise of the reef, some very surprising, albeit most predictably, not nearly as numerous reports,<sup>197</sup> declared that the reef was showing surprising signs of recovery. Bloomberg reported “Great Barrier Reef Showing ‘Signs of Recovery’”<sup>198</sup> and Newsweek reported “Great Barrier Reef Definitely Not Dead: Experts Announce Significant Signs of Recovery After Mass Bleaching”.<sup>199</sup>

In August 2022, even the Australian public broadcaster – ABC – Australian Bolshevik Collective reported “Great Barrier Reef coral cover at record levels after mass-bleaching events, report shows”<sup>200</sup> – albeit in the body of the article, as if to toss the Catastrophic Climate Change Scam narrative a lifeline, stated:

“But the new coral taking over is leaving the reef more vulnerable to future devastating impacts, according to the Australian Institute of Marine Science (AIMS).”<sup>201</sup> (See figure 23 just below.)

**Figure 23: Coral cover for the Great Barrier Reef as measured by the AIMS Long Term Monitoring Program. Supposedly “devastating” bleaching events were recorded in 2016, 2017, 2020, and 2022, (red vertical lines). The GBR has record high coral cover in 2022, and at least twice as much coral as in 2011/2012. Coral is a slow growing organism, so this graph is proof that institutions claiming major coral loss due to bleaching grossly exaggerated. Uncertainty margin is approximately  $\pm 0.04$ .**<sup>202</sup>



On Friday 23<sup>rd</sup> July, 2021, Peter Ridd on the *Net Zero Watch* website wrote “Record coral cover of Great Barrier Reef shames climate alarmists.”<sup>203</sup> And in his sub-headline to exemplify the previously vilified but now triumphant man finally vindicated:

“The annual data on coral cover for the Great Barrier Reef, produced by the Australian Institute of Marine Science – AIMS, was released on Monday [19<sup>th</sup> July, 2021] showing the amount of coral on the reef is at record high levels. Record high, despite all the doom stories by our reef science and management institutions.”<sup>204</sup>

Peter Ridd is the director and scientific advisor to the Australian Environment Foundation, and a geophysicist with over 100 publications in international journals and books to his name,<sup>205</sup> including the book *Reef Heresy Science, Research and the Great Barrier Reef*, published by Connor Court.<sup>206</sup> He worked on the Great Barrier Reef for 35 years and also invented and commercialised scientific



instrumentation used in marine science, mining and agriculture. He is now most interested in Quality Assurance systems to improve the scientific evidence used for public policy and legislation.<sup>207</sup>

The feeling of triumphant vindication I allude to for Peter Ridd is documented by Patrick Moore towards the end of chapter two of his January 2021 book *Fake Invisible Catastrophes and Threats of Doom*.<sup>208</sup> The chapter with most ironic poignancy is titled “The Great Barrier Reef is Dead or Dying and All Coral Reefs Will Die in this Century” with the passage on Peter Ridd sub-titled “The Scandalous Saga of Dr. Peter Ridd”.

In a nutshell, Peter Ridd, a 30 year faculty member of James University of North Queensland in Townsville Australia, in an episode of Orwellian academic bureaucratic dystopia, was gagged by University authorities when his academic integrity compelled him to not comply with the agenda driven narrative of climate change driven apocalypse for the Great Barrier Reef. Much in a parallel vein of dissident doctors globally who remain faithful to their Hippocratic oath in speaking out on the ever unfolding diabolical truth of the COVID jabs.<sup>209</sup>

The university gag order even prohibited Peter from talking about this sorry saga with his wife! When the university later found out he violated their Orwellian gag order by discussing it with his wife and colleagues, he was dismissed. He subsequently won his wrongful dismissal court case, on which the university wasted 0.6 million dollars of Aussie tax payers money in its crusade against Peter in defence of their dubious Great Barrier Reef climate apocalypse sub-narrative.<sup>210</sup>

Unfortunately, an additional \$4 million budget availed to the university enabled them to successfully appeal to the Federal Court against Peter’s reinstatement. Both the premiere of the state of Queensland and the Prime Minister could have terminated this sorry affair of Orwellian dystopia with the stroke of a pen, but rather remained silent.<sup>211</sup> Peter launched a second “all or nothing” appeal to the Federal court in 2021, which sadly ended in loss for him in October.<sup>212</sup> To which for Peter, the AIMS report of a now resplendently thriving reef, must be one of exceedingly moral and academic vindication if not financial. Moreover, as reported in *The Epoch Times* in late August to early September this year of 2023,<sup>213</sup>

“International scientists have jointly signed a declaration dismissing the existence of a climate crisis and insisting that carbon dioxide is beneficial to Earth.

‘There is no climate emergency,’ the Global Climate Intelligence Group (CLINTEL) said in its World Climate Declaration,<sup>214</sup> made public in August. ‘Climate science should be less political, while climate policies should be more scientific. Scientists should openly address uncertainties and exaggerations in their predictions of global warming, while politicians should dispassionately count the real costs as well as the imagined benefits of their policy measures.’

A total of 1,609 scientists and professionals from around the world have signed the declaration, including 321 from the United States.

The coalition pointed out that Earth's climate has varied as long as it has existed, with the planet experiencing several cold and warm phases. The Little Ice Age only ended as recently as 1850, they said.

'Therefore, it is no surprise that we now are experiencing a period of warming,' the declaration said.

Warming is happening 'far slower' than predicted by the Intergovernmental Panel on Climate Change."

## **Ocean Acidification – The Climate Apocalypse “Plan B”**

In late September 2017, Jackson Davis published his paper *The Relationship between Atmospheric Carbon Dioxide Concentration and Global Temperature for the Last 425 Million Years*.<sup>215</sup> In his discussions and conclusions, he stated: (T is temperature)

"The principal findings of this study are that neither the atmospheric concentration of CO<sub>2</sub> nor  $\Delta\text{RFCO}_2^{\text{vi}}$  is correlated with T over most of the ancient (Phanerozoic)<sup>vii</sup> climate.

Over all major climate transitions of the Phanerozoic Eon, about three-quarters of 136 correlation coefficients computed here are between T and atmospheric CO<sub>2</sub> concentration, and are non-discernible, and about half of the of discernible correlations are negative.

Correlation does not imply causality, but the absence of correlation proves conclusively the absence of causality. The finding that atmospheric CO<sub>2</sub> concentration and  $\Delta\text{RFCO}_2$  are generally uncorrelated with T, therefore, implies neither variable exerted significant causal influence on T during the Phanerozoic Eon that the underlying proxy databases do not accurately reflect the variables evaluated."<sup>216</sup>

However, later in the discussions and conclusions, as if to manufacture a mechanism to rescue the Climate Apocalypse narrative, Davis writes:

"Risk assessment for atmospheric CO<sub>2</sub> is not, however, limited to its effects on climate. Increasing emissions of CO<sub>2</sub> can damage sea life by acidifying ocean water. Such effects could be amplified within the sea surface micro-layer, where most sea plants and animals

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vi  $\Delta\text{RFCO}_2$  is the Marginal radiative forcing of CO<sub>2</sub>. Radiative forcing is what happens when the amount of energy that enters the Earth's atmosphere is different from the amount of energy that leaves it. Energy travels in the form of radiation: solar radiation entering the atmosphere from the sun, and infra-red radiation exiting as heat. If more radiation is entering Earth than leaving, as climate alarmists claim greenhouse gases like CO<sub>2</sub> and methane are doing, then by such logic, the atmosphere will warm up. This is called radiative forcing because it is inferred that the difference in energy can force changes in the Earth's climate. See <https://climate.mit.edu/explainers/radiative-forcing>. Certainly, the planet Venus with 96.5% CO<sub>2</sub> – <https://nssdc.gsfc.nasa.gov/planetary/factsheet/venusfact.html> and surface atmospheric pressure 75 to 100 times that of Earth and surface temperature of hundreds of degrees Celsius – <https://www.jpl.nasa.gov/news/venus-air-pressure>, in spite of its slightly smaller size and mass than Earth – <https://nssdc.gsfc.nasa.gov/planetary/factsheet/venusfact.html>, has a runaway greenhouse effect. However. The Earth's CO<sub>2</sub> level at time of writing is 424.47 ppm – <https://www.co2.earth/daily-co2> or just 0.04% or 1/2500. Venus with 96.5% atmospheric CO<sub>2</sub> or 2,412.5 times the percentage concentration of Earth AND 75 to 100 times the surface atmospheric pressure of Earth – is a scenario of hell compared to our planet.

vii The Phanerozoic Eon is the span of geologic time extending about 541 million years from the end of the Proterozoic Eon (which began about 2.5 billion years ago) to the present – <https://www.britannica.com/science/Phanerozoic-Eon>. It is also known as the eon of visible life.

spend at least part of their life cycle in their most vulnerable stages: eggs, embryos and larvae.”<sup>217</sup>

CO<sub>2</sub> dissolved in water forms a weak acid known as Carbonic acid – H<sub>2</sub>CO<sub>3</sub>. This is the key ingredient for soda-water and related fizzy drinks.<sup>218</sup> In chemistry, there is a pH scale ranging from 0 to 14, with 7 being neutral, as is the case for pure water, 0 being extremely acidic like say concentrated sulphuric (H<sub>2</sub>SO<sub>4</sub>) or hydrochloric (HCl) acid, and 14 being extremely basic or alkaline, like sodium hydroxide (NaOH) – the main ingredient in kitchen sink drain clearing liquid.<sup>219</sup> HCl when mixed with an equal amount of NaOH, will mutually cancel out or neutralise to a near pH of 7 in forming water – H<sub>2</sub>O and NaCl – sodium chloride or table salt.<sup>220</sup> Carbonic acid however, as a weak acid has a pH of around 5.<sup>221</sup>

Patrick Moore at the beginning of Chapter 10 – “Ocean Acidification – A Complete Fabrication” in his book *Fake Invisible Catastrophes and Threats of Doom*, states the following:

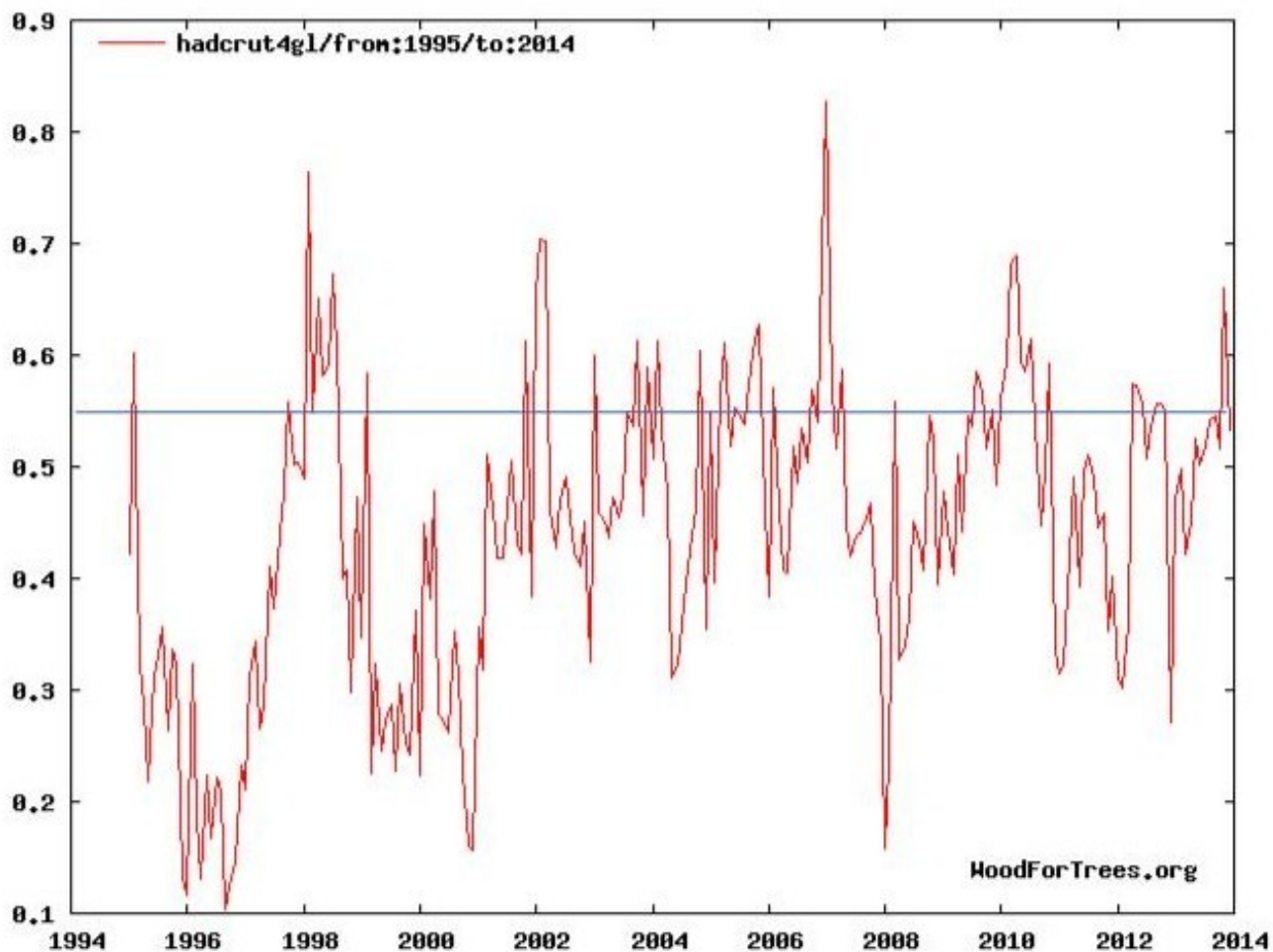
“Although there are a few references earlier in the literature, it wasn’t until 2003 that we saw the explosion of journal articles, media reports and glossy publications from environmental groups on the subject of “ocean acidification” began to appear.”<sup>222</sup>

The main thrust of the catastrophic acidification of the oceans narrative, is that it would cause the extinction of shellfish and all other calcifying marine species such as crabs for example. Their shells contain calcium carbonate or calcite – CaCO<sub>3</sub>, to which a basic rule of chemistry states the reaction of carbonates with acids, leading to the dissolving of shells in this instance by carbonic acid. Certainly, there would be dire consequences if human emissions of CO<sub>2</sub> were to kill all the clams, oysters, snails, crabs, shrimp, lobsters, coral reefs, and the many other calcifying creatures species in the oceans along with all the other species that depend upon them for food.<sup>223</sup>

However, from 1995 to 2014, there was a pause in global warming<sup>224</sup> – a most inconvenient fact for the dire consequences predicted by the Climate Apocalypse narrative, as shown in figure 24 just below. Enter the conveniently contrived hypothesis of ocean acidification which does not require any warming, any change in climate, or any increase in extreme weather events to occur.



**Figure 24: The 19-year pause in temperature rise 1995-2014.**<sup>225</sup>



The 19-year pause in temperature rise, coincident with the highest human-caused CO<sub>2</sub> emissions in history at the time. It was also coincident with the invention of the ocean acidification “catastrophe.” The data is provided by HadCRUT4 which is developed by the Climatic Research Unit of the University of East Anglia in conjunction with the Hadley Centre of the UK Met Office.<sup>226</sup>

Ocean acidification has been dubbed “global warming’s evil twin,”<sup>227</sup> to which likewise alarmist rhetoric is integral to its narrative, as elucidated in the journal *Trends in Ecology and Evolution*:

“The anthropogenic rise in atmospheric CO<sub>2</sub> is driving fundamental and unprecedented changes in the chemistry of the oceans. ... We argue that ocean conditions are already more extreme than those experienced by marine organisms and ecosystems for millions of years, emphasising the urgent need to adopt policies that drastically reduce CO<sub>2</sub> emissions.”<sup>228</sup>

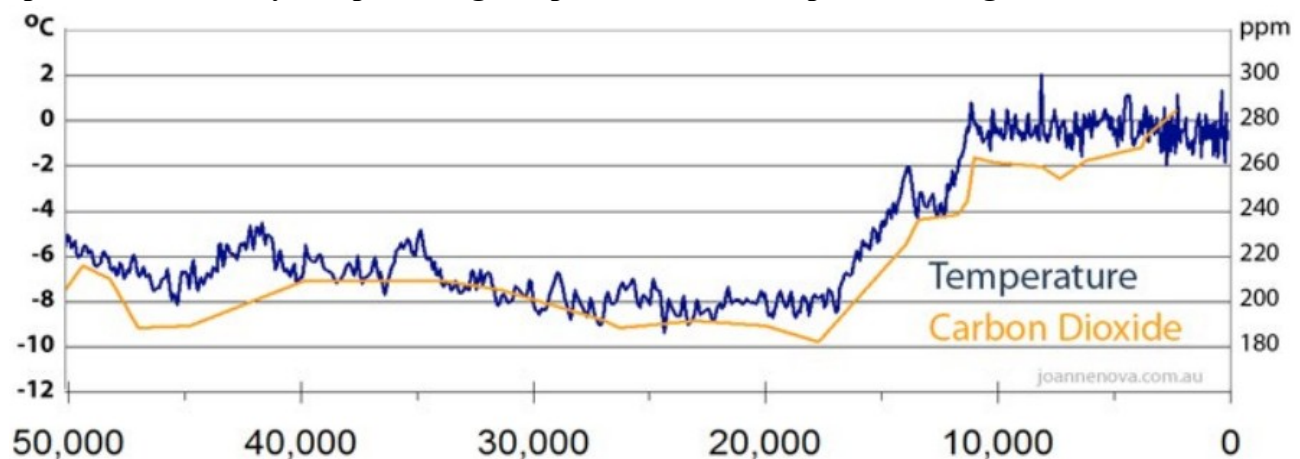
Yet, the same paper states, “Understanding the implications of these changes in seawater chemistry for marine organisms and ecosystems is in its infancy.”<sup>229</sup>

By 2009, the Natural Resources Defense Council (NRDC), an environmental advocacy group, was saying that “by mid-century ... coral reefs will cease to grow and even begin to dissolve” and ocean acidification will “impact commercial fisheries worldwide, threatening a food source for hundreds of millions of people as well as a multi-billion dollar industry.”<sup>230</sup> Therefore, not only are calcifying species threatened, but also the entire web of life in the seas.

The NRDC document also contended, “Acidification may already be impacting marine life around the world. For example, Pacific oysters have not successfully reproduced in the wild since 2004.”<sup>231</sup> This assertion is quite misleading, as Pacific oyster production has been increasing steadily from 150 thousand tons in 1950 to more than 500 thousand tons in 2013, and is based on the collection of wild seed.<sup>232</sup> Curiously, the web page of the FAO – Food and Agriculture Organization of the United Nations, Fisheries and Aquaculture Department that alludes to this fact, has been removed in late 2021, but can still be retrieved on the WayBack Machine,<sup>233</sup> as can the original PDF directly from the FAO web site.

As far as is known, there was only one other period in the Earth’s history when CO<sub>2</sub> was nearly as low as it has been during the past 2.5 million years of the Pleistocene Ice Age.<sup>234</sup> During the late Carboniferous Period and into the Permian and Triassic Periods, CO<sub>2</sub> was drawn down from about 4,000 ppm to about 400 ppm, probably owing to the advent of vast areas of forest that pulled CO<sub>2</sub> out of the atmosphere and incorporated it into wood and thus into coal (see Figure 1). We know from Antarctic ice cores that CO<sub>2</sub> was drawn down to as low as 180 ppm during the Pleistocene, **only 30 ppm above the threshold for the survival of plants**, at the peak of glacial advances (see Figure 25 just below).<sup>235</sup> These periods of low atmospheric CO<sub>2</sub>, as is the case at present, are the exception to the much longer periods when CO<sub>2</sub> was more than 1,000 ppm, and often much higher.

**Figure 25: Cryostratigraphic [ice-core sample] reconstructions of air temperature and CO<sub>2</sub> concentration anomalies from Vostok station, Antarctica, 50 to 2,500 thousand years ago. CO<sub>2</sub> concentration fell to a little above 180 ppm about 18,000 years ago in the very late Pleistocene epoch, about 7,000 years preceding our present Holocene epoch – see Figures 1 and 2.**<sup>236</sup>



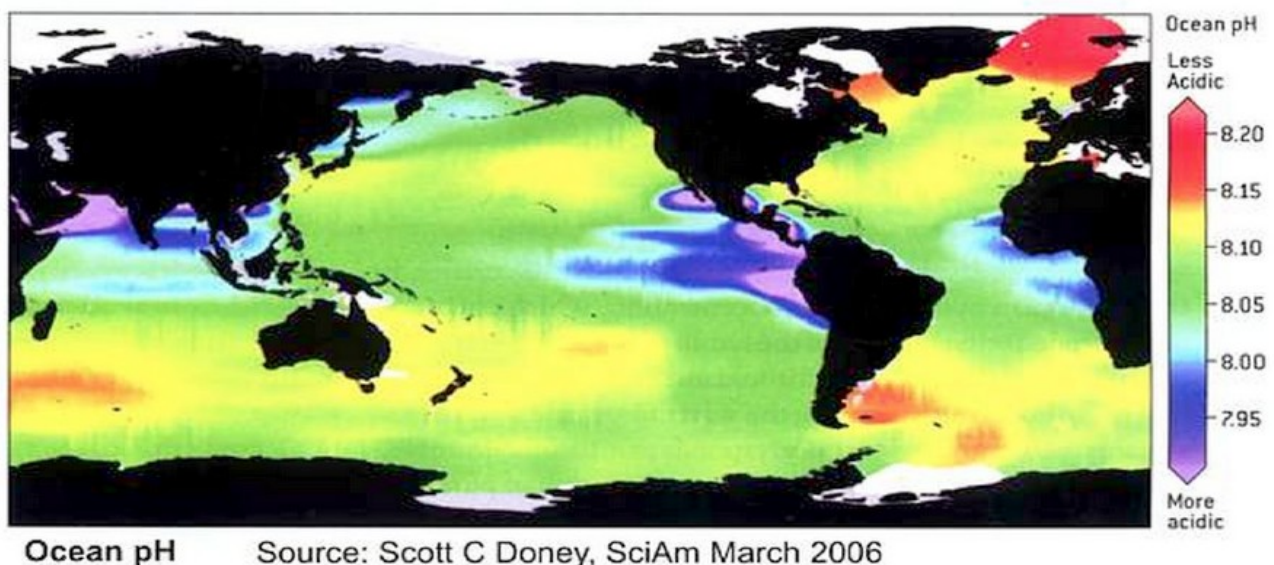
For this reason alone, the possibility that present and future atmospheric CO<sub>2</sub> levels will cause significant harm to calcifying marine life should be questioned.<sup>237</sup> However, a number of other factors bring the ocean acidification hypothesis into question. For one, the ability of parents to pass their adaptations to their offspring.<sup>238</sup> This flies in the face of the Climate Apocalypse narrative, to which one study pointed out that “contemporary coastal organisms already experience a wide range of pH and CO<sub>2</sub> conditions, most of which are not predicted to occur in the open ocean for hundreds of years – if ever.”<sup>239</sup>

Experiments have been performed where parents and offspring were exposed to CO<sub>2</sub> levels of 1,200 ppm and 2,300 ppm compared with today’s ambient level of 400 ppm. The scientists report that “early in the season (April), high CO<sub>2</sub> levels significantly ... reduced fish survival by 54% (2012) and 33% (2013) and reduced 1 to 10 day post-hatch growth by 17% relative to ambient conditions.” However, they found that “offspring from parents collected later in the season became increasingly CO<sub>2</sub>-tolerant until, by mid-May, offspring survival was equally high at all CO<sub>2</sub> levels.”<sup>240</sup>

This indicates that a coastal species of fish is capable of adapting to high levels of CO<sub>2</sub> in a very short time. It also indicates that this same species would not even notice the relatively slow rate at which CO<sub>2</sub> is increasing in the atmosphere today.<sup>241</sup> Moreover, the changes that have occurred to the Earth's climate over the past 300 years since the peak of the Little Ice Age around the year 1700 are in no way unusual or unique in history. During the past 3,000 years, a blink in geological time, there has been a succession of warm periods and cool periods. There is no record of species extinction due to climatic change during these periods.<sup>242</sup>

Often overlooked is the fact that the oceans overall hold 38,000 gigatonnes of CO<sub>2</sub>, which is almost 45 times that of the atmosphere's 850 gigatonnes.<sup>243</sup> Nevertheless, the pH of oceans all over the globe at present are mildly basic from 7.5 to 8.4 – not acidic. (See Figure 26 just below) However, it is the presence of CO<sub>2</sub> in the oceans that keep them mildly basic or alkaline and hence, capable of supporting life. Without CO<sub>2</sub> dissolved in water forming the weak carbonic acid, the oceanic pH would be about 11.3 – similar to household ammonia and thus way too alkaline to support life.<sup>244</sup> The weak carbonic acid acts as an essential buffer to the strong alkaline salts in sea water, and proves itself as an imperative for life at sea, as it is indeed, for life on land.

**Figure 26: World map depicting the pH of the oceans, including the large area of lower pH seawater off the west coast of South America. To be more accurate, the scale of ocean pH on the right, given that the pH range covered is above 7.0 – that is basic, should read “More Basic” and “Less Basic.”<sup>245</sup>**



It is widely stated in the literature that the pH of the oceans was 8.2 before industrialisation in the year 1750 and that owing to human CO<sub>2</sub> emissions it has since dropped to 8.1.<sup>246</sup> However, no one measured the pH of ocean water in 1750. The concept of pH was not conceived of until 1909, and an accurate pH meter was not available until 1924. The assertion that more than 270 years ago ocean pH was 8.2 is an estimate rather than an actual measurement.<sup>247</sup> Measuring pH accurately in the field to 0.1 of a pH unit is not a simple procedure even today. In addition, for two reasons, there is no global-scale monitoring of the pH of the oceans: First, genuine oceanographers know the overwhelming buffering capacity of seawater, so they do not expect the global acid-base balance to change, and secondly, there is no automated instrument available for measuring pH.

Observations from three eminent oceanographers, including Harald Sverdrup, former director of the Scripps Institute of Oceanography, in a 1942 published book that covers all aspects of ocean physics, chemistry and biology bring into question these scientists' assertion. The book was written before the subject of climate change and carbon dioxide became politicised.

“Sea water is a very favourable medium for the development of photosynthetic organisms. It not only contains an abundant supply of CO<sub>2</sub>, but removal or addition of considerable amounts results in no marked changes of the partial pressure of CO<sub>2</sub> and the pH of the solution, both of which are properties of importance in the biological environment ...

... but the changes are small if the acid or base is added to a solution containing a weak acid and its salts or a weak base and its salts. This repression of the change in pH is known as buffer action, and such solutions are called buffer solutions.”<sup>248</sup>

Of vital importance to the marine food web are microscopic plants known as phytoplankton.<sup>249</sup> In the oceanic parallel to plants on land, CO<sub>2</sub> and the sun's rays are integral to phytoplankton photosynthesis as they produce oxygen essential to the survival of marine animals.<sup>250</sup> Because they need the sun's energy, phytoplankton are found near the water's surface.<sup>251</sup> And just as rising CO<sub>2</sub> levels are causing a greening of land, likewise they are for the ocean.<sup>252</sup>

Moreover, a November 2015 study published in the Proceedings of the National Academy of Sciences (PNAS) highlights how resilient coral reefs are to changes in ocean pH. A five-year study of the Bermuda coral reef shows that during spurts in growth and calcification, the seawater around the reef undergoes a rapid reduction in pH.<sup>253</sup> This reduction in pH is clearly not causing a negative reaction from the reef, as it is associated with rapid growth.

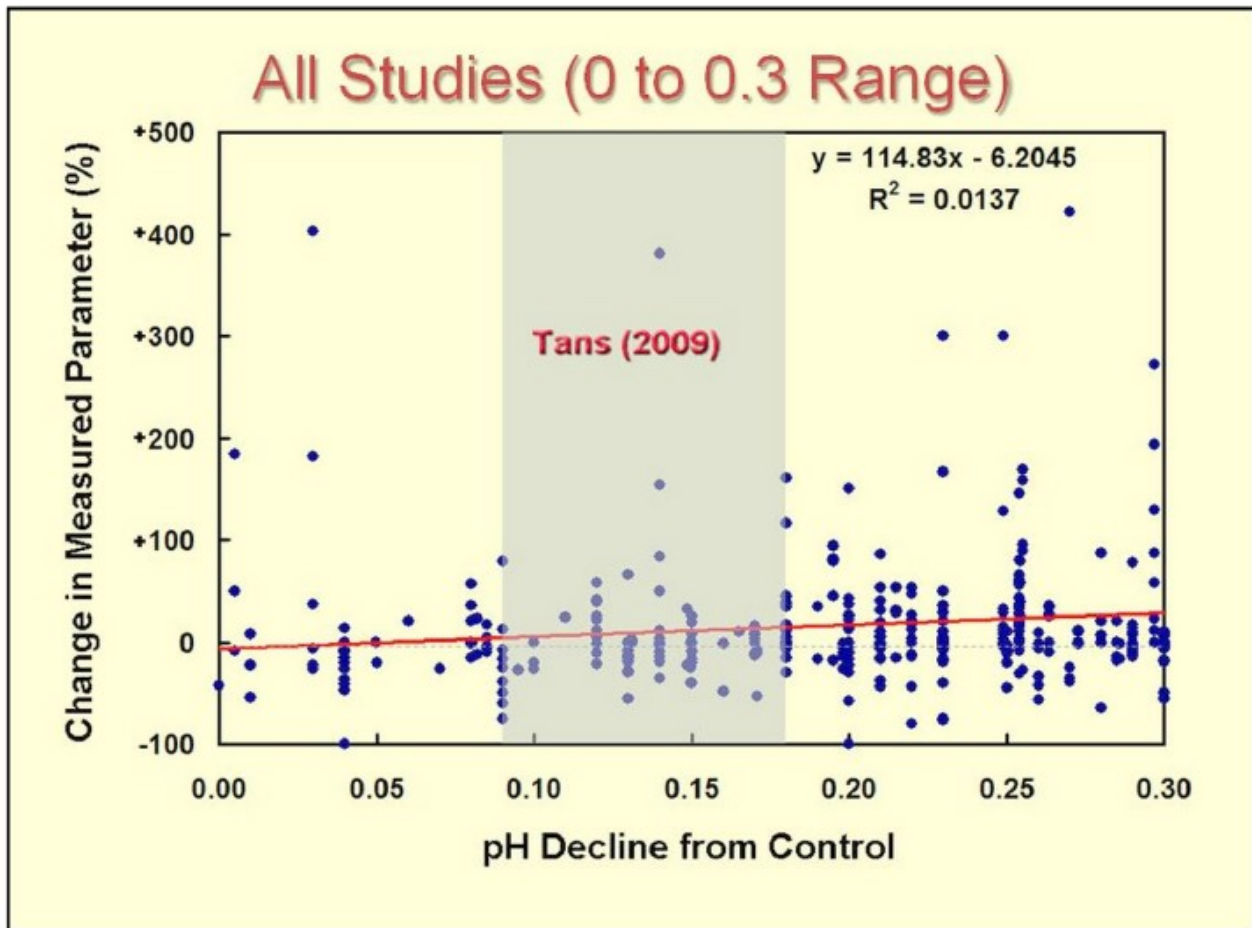
The study found that the reason the pH dropped during growth spurts is due to the CO<sub>2</sub> emitted by the reef due to increased respiration. It was determined that the growth spurts were the result of **offshore blooms of phytoplankton** drifting in to the reef and providing an abundant food supply for the reef polyps. The conclusion from the study is that coral growth can increase even though the growth itself results in a reduction in pH in the surrounding seawater. A summary of the study in New Scientist concluded,

“These corals didn't seem to mind the fluctuations in local acidity that they created, which were much bigger than those we expect to see from climate change. This may mean that corals are well equipped to deal with the lower pH levels.”<sup>254</sup>

It follows from the discussion above that this is likely due to the fact that the coral polyps can control their own internal pH despite the decrease in pH in their environment.<sup>255</sup> Moreover, In his thorough and inclusive analysis of peer-reviewed experimental results on the effect of reduced pH on five factors (calcification, metabolism, growth, fertility and survival) among marine calcifying species, Craig Idso of the CO<sub>2</sub> Science Web site provides a surprising insight. Beginning with 1,103 results from a wide range of studies, the results are narrowed down to those within a 0.0 to 0.3 reduction in pH units.<sup>256</sup> A review of these many studies, all of which use direct observation of measured parameters, indicates that the overall predicted effect of increased CO<sub>2</sub> on marine species would be positive (albeit a very weak one as indicated by the small positive gradient or slope of the red line of best fit) rather than negative (see Figure 27 just below). This further reinforces the fact that CO<sub>2</sub> is essential for life, that CO<sub>2</sub> is at an historical low concentration during this Pleistocene Ice Age and that more CO<sub>2</sub> rather than less would be generally beneficial to life on Earth.

**Figure 27: All peer-reviewed experimental results for pH decrease of 0.0 to 0.3 from present value. (Prediction of range of actual expected pH change in grey). Five parameters are included: calcification, metabolism, growth, fertility and survival. Note that the overall trend is positive for all studies up to 0.30 units of pH reduction.**<sup>257</sup>





Given present-day rising atmospheric CO<sub>2</sub> concentrations, a pertinent question one could ask, is “what is the precise division between CO<sub>2</sub> absorbed by the oceans and CO<sub>2</sub> contributing to increased terrestrial biomass?” Certainly, there is direct evidence that trees and plants are taking up a percentage of human CO<sub>2</sub> emissions as CO<sub>2</sub> levels increase.<sup>258</sup> The “CO<sub>2</sub> fertilisation effect” is well documented.<sup>259</sup> That greenhouse growers around the world purposely increase the level of CO<sub>2</sub> in their greenhouses in order to increase yield of their crops by up to 50 per cent supports this fact. There is simply no question that terrestrial plants largely benefit from increased levels of CO<sub>2</sub> in the air. Whereas CO<sub>2</sub> is now at about 400 ppm, the optimum growth of most plants occurs at 1,500 to 2,000 ppm, and in some species, it is much higher. However, the precise division between CO<sub>2</sub> absorbed by the oceans and CO<sub>2</sub> contributing to increased terrestrial biomass is very difficult to determine.<sup>260</sup> Which implies major guess work by climate alarmists in estimating possible declines in pH of our oceans ostensibly caused by increasing anthropogenic CO<sub>2</sub> emissions. To which Patrick Moore alludes to in his conclusion regarding the catastrophic ocean acidification narrative:

“There is no solid evidence that ocean acidification is the dire threat to marine species that many researchers have claimed. The entire premise is based upon an assumption of what the average pH of the oceans was 265 years ago when it was not possible to measure pH at all, never mind over all the world’s oceans. Laboratory experiments in which pH was kept within a range that may feasibly occur during this century show a slight positive effect on five critical factors: calcification, metabolism, growth, fertility and survival.

Of most importance is the fact that those raising the alarm about ocean acidification do not take into account the ability of living species to adapt to a range of environmental conditions. This is one of the fundamental characters of life itself.”<sup>261</sup>

In relation in part to the beneficial “CO<sub>2</sub> fertilisation effect,” it’s worth noting here that the atmosphere contains 20.5 percent oxygen by volume, or 205,000 ppm (parts per million), compared to CO<sub>2</sub> which is 0.0415 percent by volume or 415 ppm. At 60,000 ppm oxygen, a human becomes unconscious and dies; whereas many plants can survive at 0.015 percent or 150 ppm of CO<sub>2</sub>. Which implies that plants are  $60,000/150 = 400$  times more efficient at obtaining their essential gas than humans.<sup>262</sup>

Moreover, some fish can survive at dissolved oxygen levels of just two ppm in seawater! Which in turn implies fish are  $60,000/2 = 30,000$  times more efficient than humans in obtaining their essential dissolved oxygen than humans are at getting their essential atmospheric oxygen, or  $30,000/400 = 75$  times so compared to plants in obtaining their essential atmospheric CO<sub>2</sub>.<sup>263</sup>

# COAL – THE DEMONISED EPICENTRE TO THE LUNACY OF CLIMATE APOCALYPSE VIRTUE SIGNALLING<sup>264</sup>

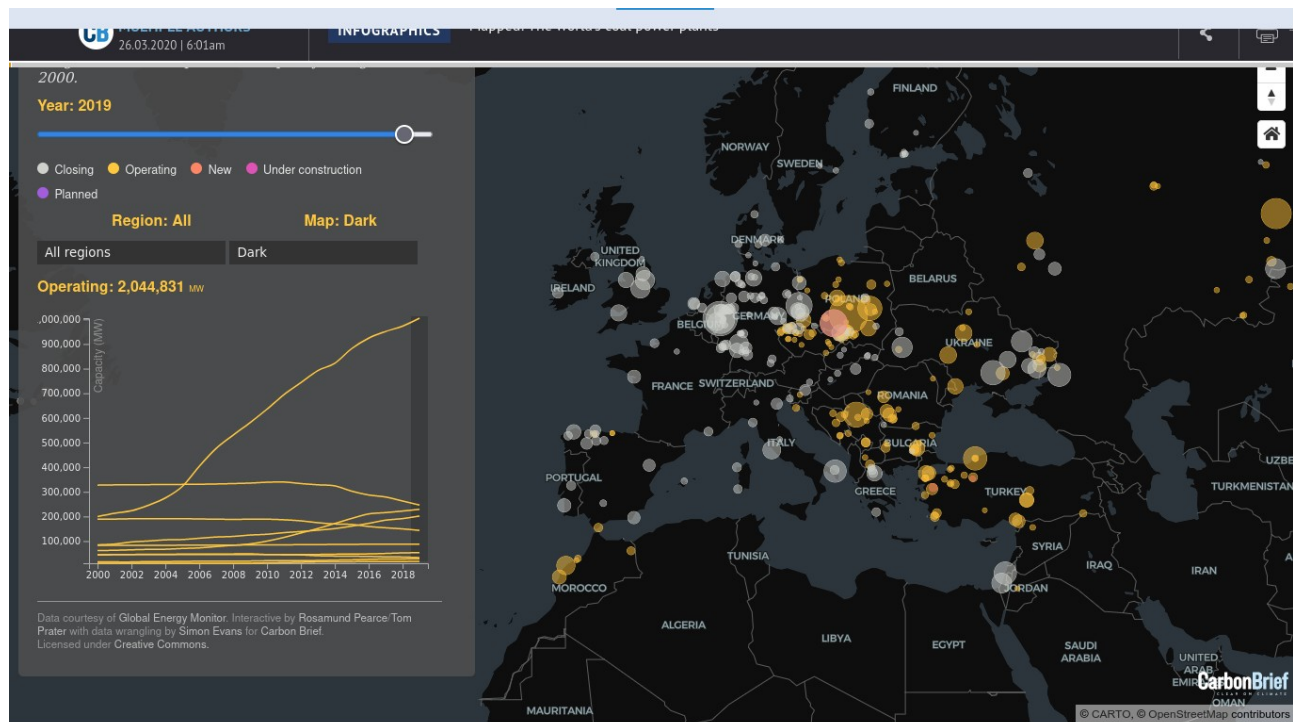
The UK-based website *Carbon Brief*<sup>265</sup> states its mission as:

... covering the latest developments in climate science, climate policy and energy policy. We specialise in clear, data-driven articles and graphics to help improve the understanding of climate change, both in terms of the science and the policy response. We publish a wide range of content, including science explainers, interviews, analysis and factchecks, as well as daily and weekly email summaries of newspaper and online coverage.<sup>266</sup>

A mere cursory scan of this website confirms its agenda dedicated to the narrative of the Climate Apocalypse. In particular, its interactive map attributing extreme weather to climate change.<sup>267</sup> To which the aforementioned discussion on US Forest fires from 1926-2017 and Australian bushfires would diametrically contradict.<sup>268</sup> However, the interactive map that sheds great light on the demonising obsession of coal, is their Global Coal Power interactive map.<sup>269</sup> At its top left is a slider to explore global coal capacity changes since the year 2000.

Presently it defaults to 2019, whereupon if one zooms into Germany and Poland, essentially the defining historic frontier between western and eastern Europe, what is striking, is that all coal-fired power stations in Germany, coloured in grey, were closing, while immediately over the frontier into Poland, while a handful were being closed, one in Opole is being built and the vast majority being retained.

**Figure 28: Coal-fired power stations in Europe 2019<sup>270</sup>**

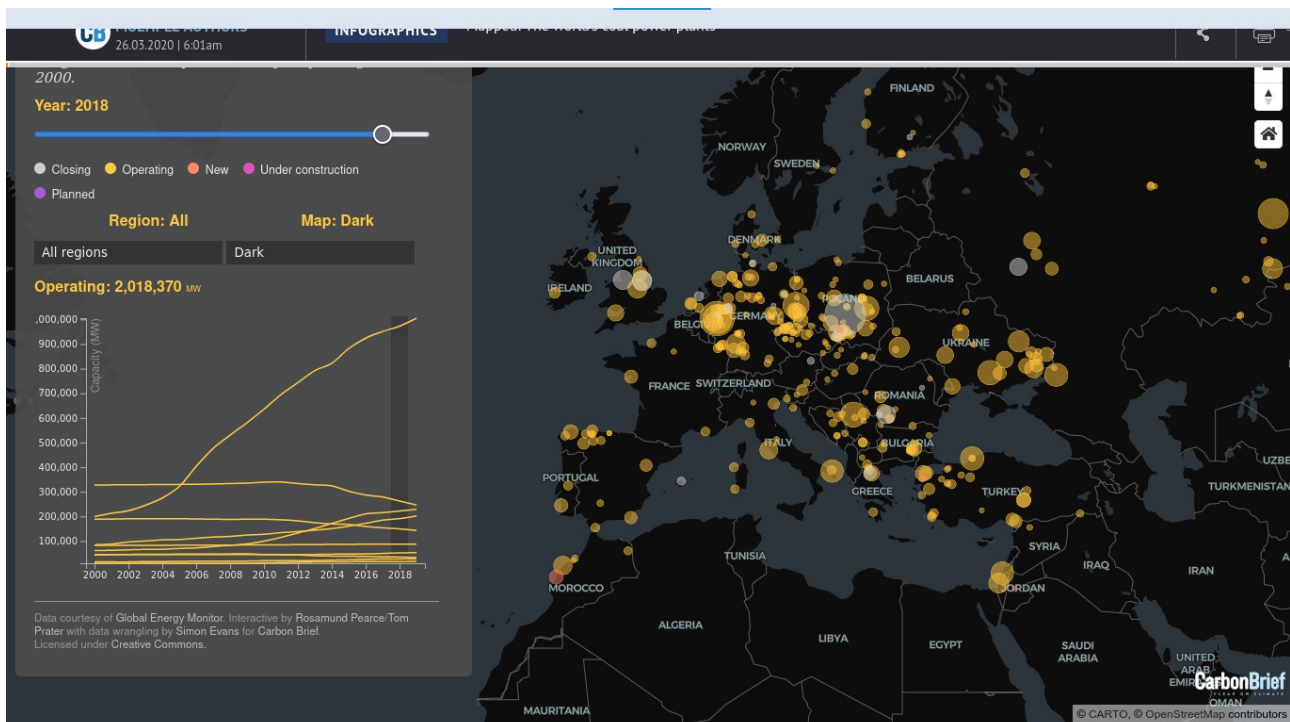


No less extraordinary however, is when one slides just one year previous to 2018. Then while Germany has a handful of grey coloured coal-fired power stations being phased out, it is dominated by orange coloured operational power stations. In short, the shutdown of coal-fired power stations



in Germany from just 2018 to 2019, has been precipitous to say the least. Moreover, this trend extends to western Europe in general including Spain, Portugal, Italy, UK and Ireland.

**Figure 29: Coal-fired power stations in Europe 2018<sup>271</sup>**



Such ill-conceived measures have been justified by the demonising of coal as a major emitter of CO<sub>2</sub> – itself promulgated as the sole control knob of climate catastrophe, which in turn, as the previously discussed data has borne out, is ludicrously simplistic for a system as complex as climate extending over billions of years of Earth’s natural history. To which, the replacement and ostensible “green-renewable” alternatives of wind-turbine monstrosities and solar have become the perceived magic panaceas to avert climate catastrophe.

The truth however, has not vindicated the ostensibly green and renewable alternatives, inherently dependent on the natural elements of sunshine and wind, in meeting civilisation’s energy demands like coal has reliably done so since the first industrial revolution. On August 15<sup>th</sup>, 2022, mainstream Bloomberg reported;

“Key European Power Price Doubles in Two Months as Crisis Deepens – German and UK day-ahead prices also soar to record highs Governments are under pressure to ease burden on households”<sup>272</sup>

and around the same time, the UK Independent reported;

“UK energy bills could top £5,000 [annually] in April, bleak new forecast says -- Prediction comes as ministers are set to press energy companies for a solution.”<sup>273</sup>

However, on 8 September 2022, the then Prime Minister Liz Truss announced that a new Energy Price Guarantee would instead be introduced from 1 October 2022. This was set at £2,500 a year for typical levels of consumption and was initially planned to last two years.<sup>274</sup> Of course, what this does, is pass the cost of generation onto the tax payer, adding to the ever growing debt burden of governments globally, and ultimately, the debasement of sovereign currencies. All in the name of an

ostensible climate catastrophe based on at best, highly questionable science upon which highly qualified dissenting voices, as is and was the case with the COVID jabs,<sup>275</sup> suppressed. Clearly, anything with the paws of the UN and the synonymous World Economic Forum of Klaus Schwab all over it, can only be one of nefarious and malevolent intent. Moreover, Klaus Schwab in November 2022, proclaimed on China's State TV network CGTN;

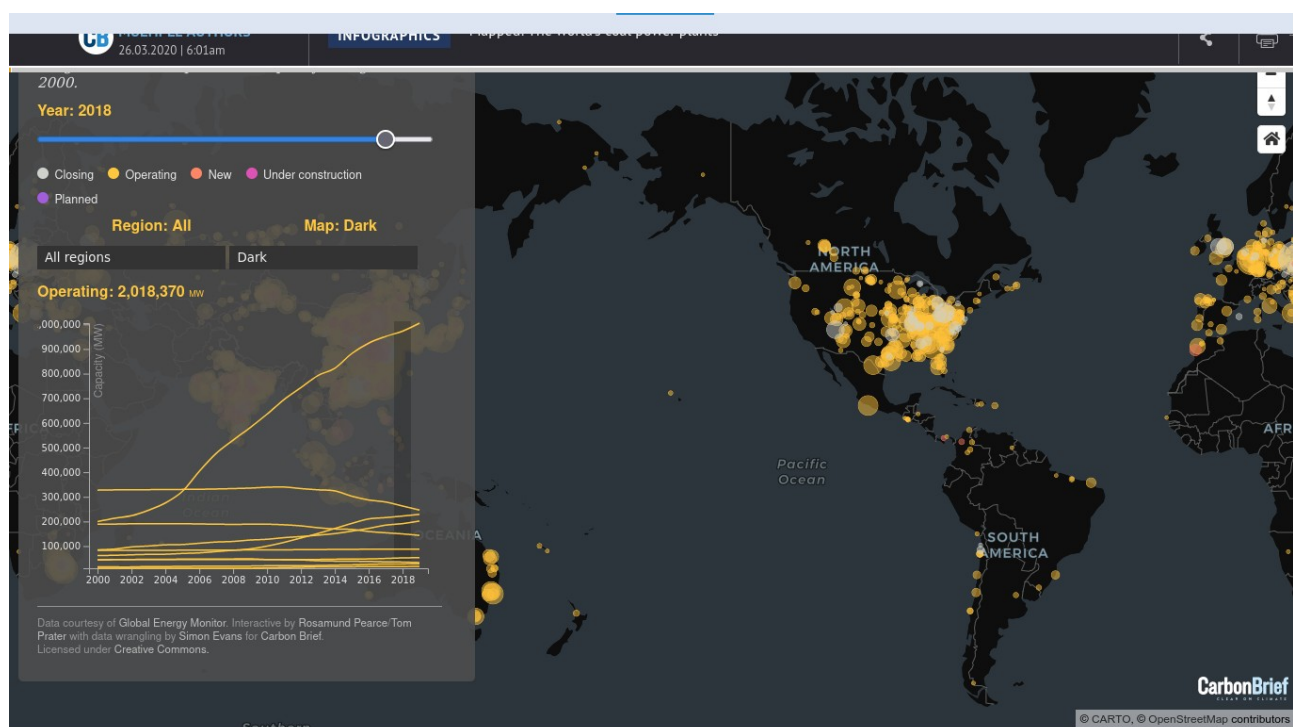
“China is a model for many nations.”<sup>276</sup>

In late September 2022, The US public broadcaster NPR – National Public Radio reported “Amid an energy crisis, Germany turns to the world's dirtiest fossil fuel.”<sup>277</sup> As the Globalist mainstream media NPR elaborated on the self-inflicted dystopia of energy suicide, exacerbated by dangerous dependence on a hostile Russia, not insanely shutting down reliable coal-fired power stations, as it continues its exporting of fossil fuels;<sup>278</sup>

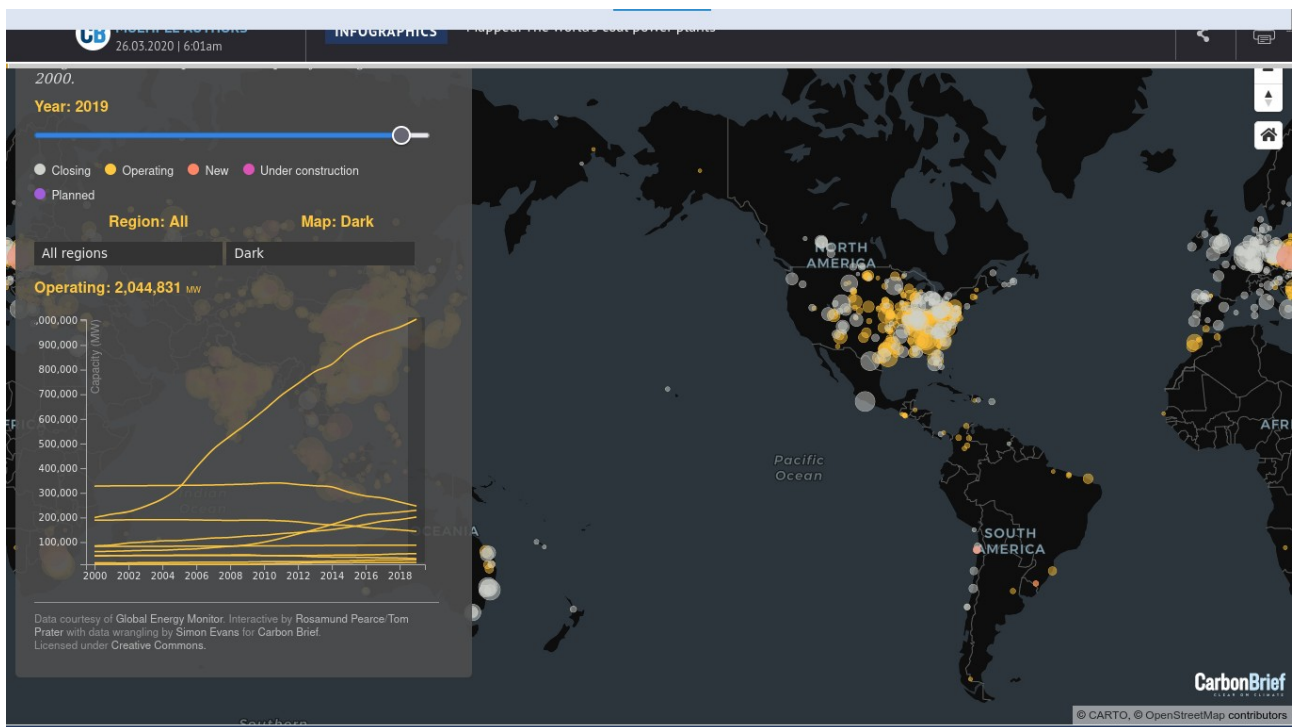
It wasn't supposed to be like this. This coal-fired power plant is one of several nationwide that were scheduled to be shut down by the end of the year, to maintain Germany's commitment to phasing out coal by the end of this decade. But with Russia cutting natural gas deliveries to Europe, and with no quick options to replace that energy, Germany is warily turning to its most reliable — and environmentally polluting — fossil fuel. At least 20 coal-fired power plants nationwide are being resurrected or extended past their closing dates to ensure Germany has enough energy to get through the winter.<sup>279</sup>

Moreover, as if to add contemptuous insult to injury, as one moves the slider at the Carbon Brief interactive map,<sup>280</sup> China, the second largest economy in the world, is proceeding at a rate of knots in building coal-fired power stations.<sup>281</sup> To which begs the question; how many times over has this cancelled out the reduced but insignificant CO<sub>2</sub> emissions achieved with western Europe's obviously pointless energy suicide, and in like for the US – starting in 2010, but especially in 2014 and 2019, and since 2019, Australia.<sup>282</sup>

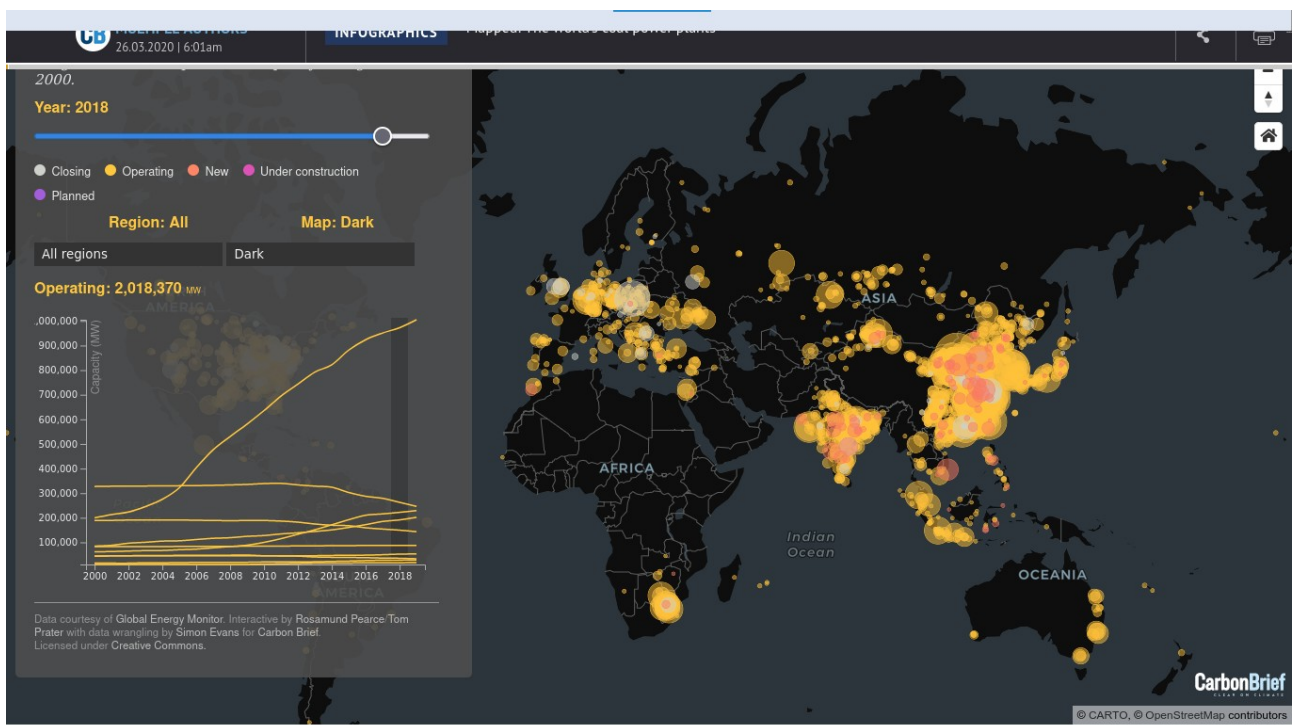
**Figure 30: Coal-fired power stations in Americas 2018**<sup>283</sup>



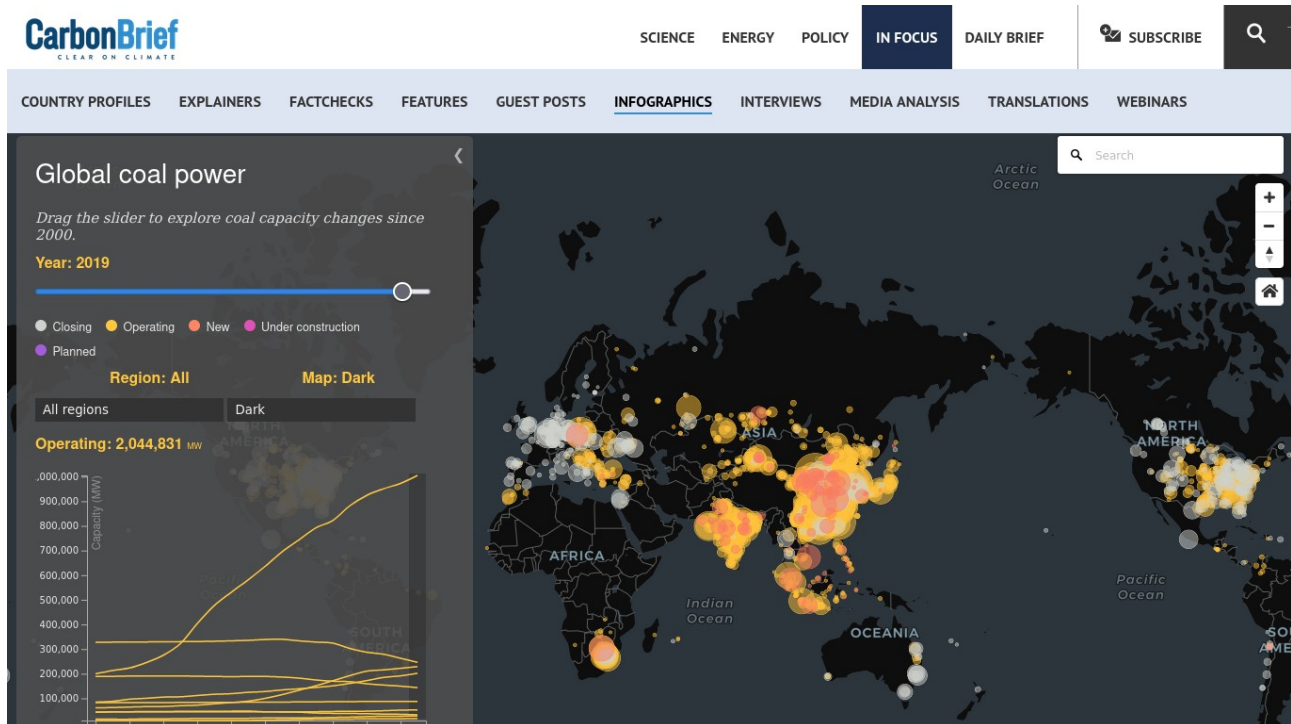
**Figure 31: Coal-fired power stations in Americas 2019**<sup>284</sup>



**Figure 32: Coal-fired power stations in Oceania, Eurasia and Africa 2018<sup>285</sup>**



**Figure 33: Coal-fired power stations in Oceania, Eurasia and Africa 2019<sup>286</sup>**



To which, the US Climate envoy John Kerry, in asserting the veracity of the Climate Apocalypse narrative, repeatedly contends that we need the support of China in fighting climate change!<sup>287</sup> Given however, that China, ruled by the CCP, is a state perpetrating the Uighur genocide, forced human organ harvesting of Falun Gong practitioners,<sup>288</sup> the creation of police stations globally without the consent of sovereign nations<sup>289</sup> and its 2019-20 cover-up of the Wuhan lab leak of COVID-19,<sup>290</sup> one awake to the nefarious agenda of the Catastrophic Climate narrative, can only see a malevolent CCP rife with sociopaths, leveraging this Western misguided religious devotion to the agenda of the Climate Apocalypse, to its own nefarious ends.

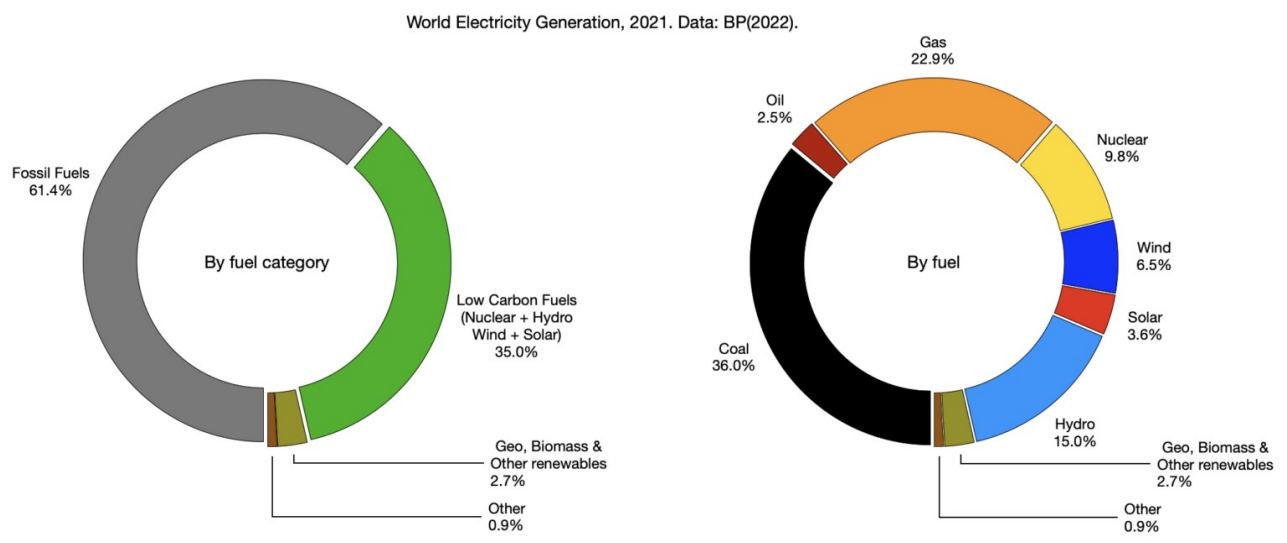
Moreover, as discussed earlier, the global CO<sub>2</sub> concentration of 424 ppm<sup>291</sup> is still lower than what is was for ninety percent of the Earth's natural history. To reiterate, the last time it was this low, was around 290 million years ago in the late Carboniferous Period and into the Permian and Triassic Periods, when CO<sub>2</sub> was drawn down from about 4,000 ppm to about 400 ppm, probably owing to the advent of vast areas of forest that pulled CO<sub>2</sub> out of the atmosphere and incorporated it into wood and thus into coal (see Figure 1).<sup>292</sup> Furthermore, at the start of the first industrial revolution in 1750, global CO<sub>2</sub> was down to a concerning 280 ppm,<sup>293</sup> given that at 150 ppm, plants begin to die.<sup>294</sup>

## THE GLOBAL CO<sub>2</sub> FOOTPRINT OF COAL FIRED POWER GENERATION

Here it useful to investigate the impact of coal-fired power generation and other sources on the global CO<sub>2</sub> footprint. Coal presently, as shown in figure 34, is still globally the most dominant means of power generation, accounting for 36% of global power generation and when combined with fossil fuel alternatives such as oil and gas, accounts for 61.4% in 2021.

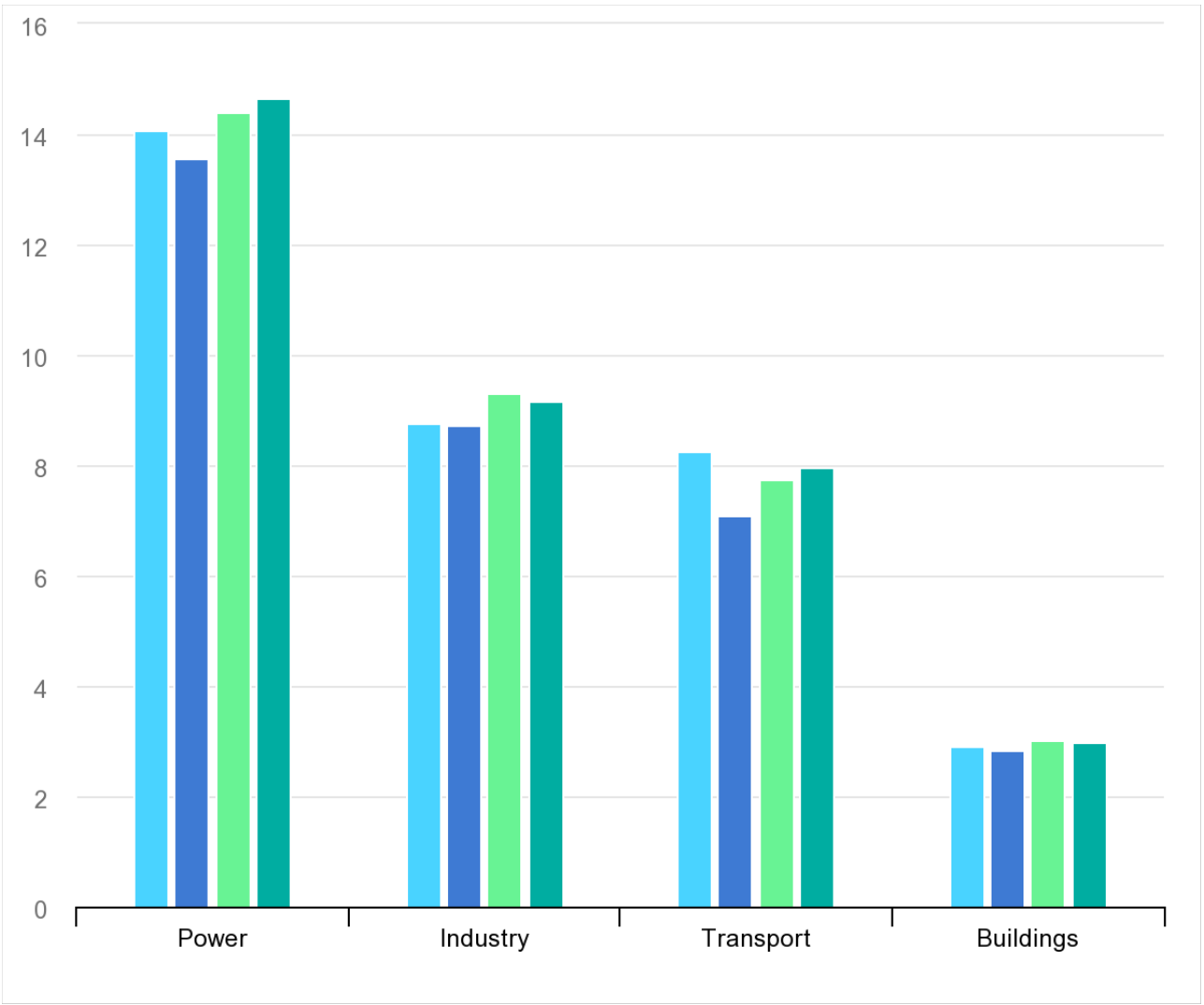


**Figure 34: World Electricity Generation Updated February 2023<sup>295</sup>**



To which Global CO<sub>2</sub> emissions by economic sector, 2019-2022 are as follows from the International Energy Agency (IEA) in figure 35:

**Figure 35: Global CO<sub>2</sub> emissions in Gigatons (billions of metric tons) by economic sector, 2019-2022<sup>296</sup>**



So clearly the global CO<sub>2</sub> footprint of coal-fired power generation is significant. From figure 34 in 2022, the total global CO<sub>2</sub> footprint was roughly  $15 + 9 + 8 + 3 = 35$  Gigatons across the four broad economic sectors of Power, Industry, Transport and Buildings – the latter being the use of cement in the building industry. Given that coal-fired power stations account for 36% of global power generation, but over half the CO<sub>2</sub> footprint global power generation (assuming minimal CO<sub>2</sub> footprint for Wind, Solar, Nuclear and Hydro) then coal-fired power stations would account for globally  $(36/61)\% \times 15 = 8.85$  gigatons of global CO<sub>2</sub> emissions – or  $8.85/35 = 25.28\%$  of total global CO<sub>2</sub> emissions in 2022.

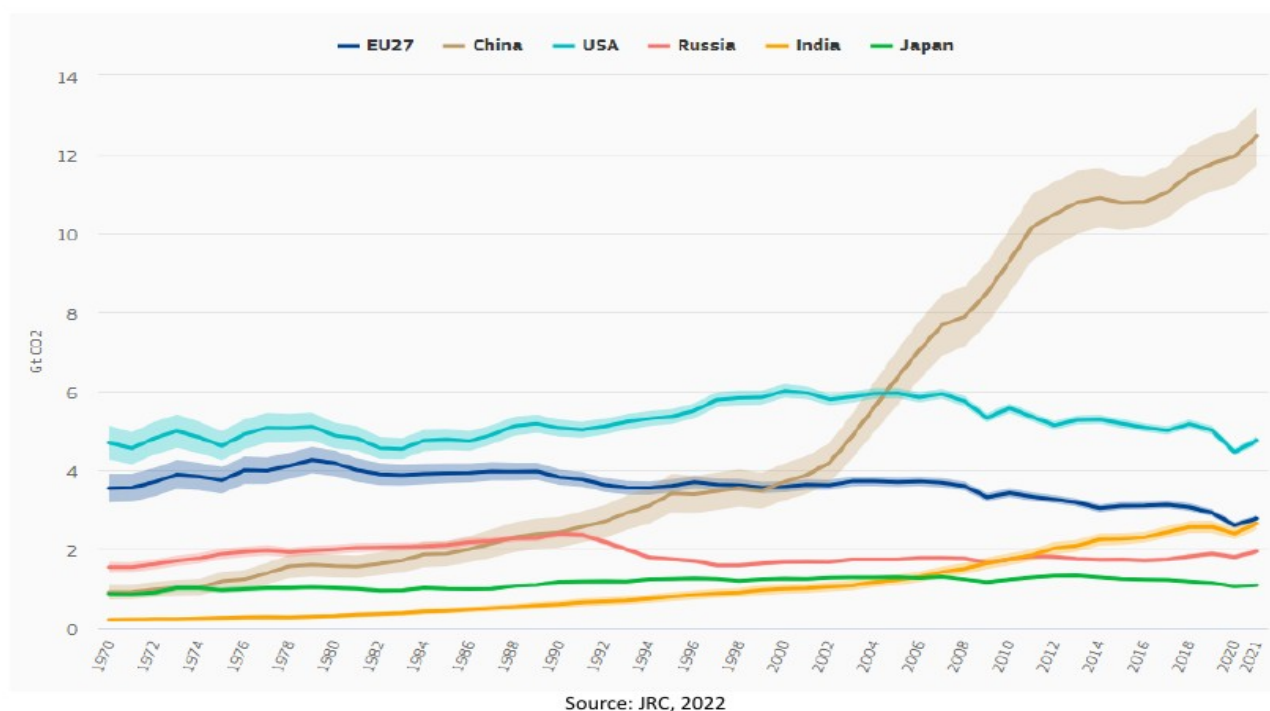
In short, if the entire world overnight ceased all coal-fired power generation, the global CO<sub>2</sub> footprint would be reduced by 25.28%. Given from figure 33, that “renewables” like wind and solar, combined only account for  $6.5\% + 3.6\% = 10.1\%$  of global power generation, and are totally dependent on the natural elements to function, and as already discussed in great depth, CO<sub>2</sub> is NOT detrimental to the environment, but indeed essential to life and indeed presently still at levels lower than ninety percent of Earth’s natural history, one can only be gob smacked at the path of energy suicide embarked upon by Western Europe and western civilisation in general. Indicative of which being, the aforementioned embarrassing backflip for Germany in September 2022 where at least 20 coal-fired power plants nationwide are being resurrected or extended past their closing dates to ensure Germany had enough energy to get through their winter of 2022-23.<sup>297</sup>



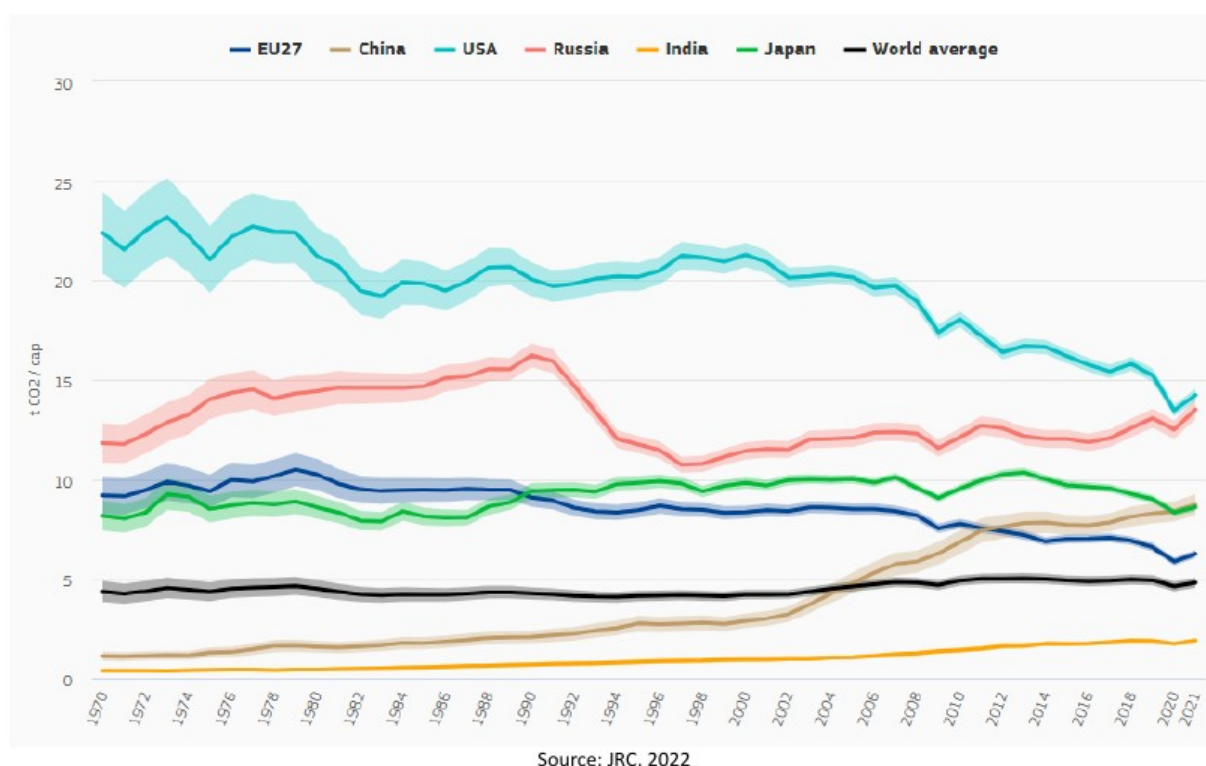
## CO<sub>2</sub> EMISSIONS BY COUNTRY

What countries are the highest CO<sub>2</sub> emitters? The following three metrics are useful. Firstly, annual raw CO<sub>2</sub> emissions per country, then CO<sub>2</sub> emissions per capita or head of population and finally, CO<sub>2</sub> emissions per unit of “Gross Domestic Product Purchasing Power Parity” (GDP PPP) per \$1,000 (1k) US.

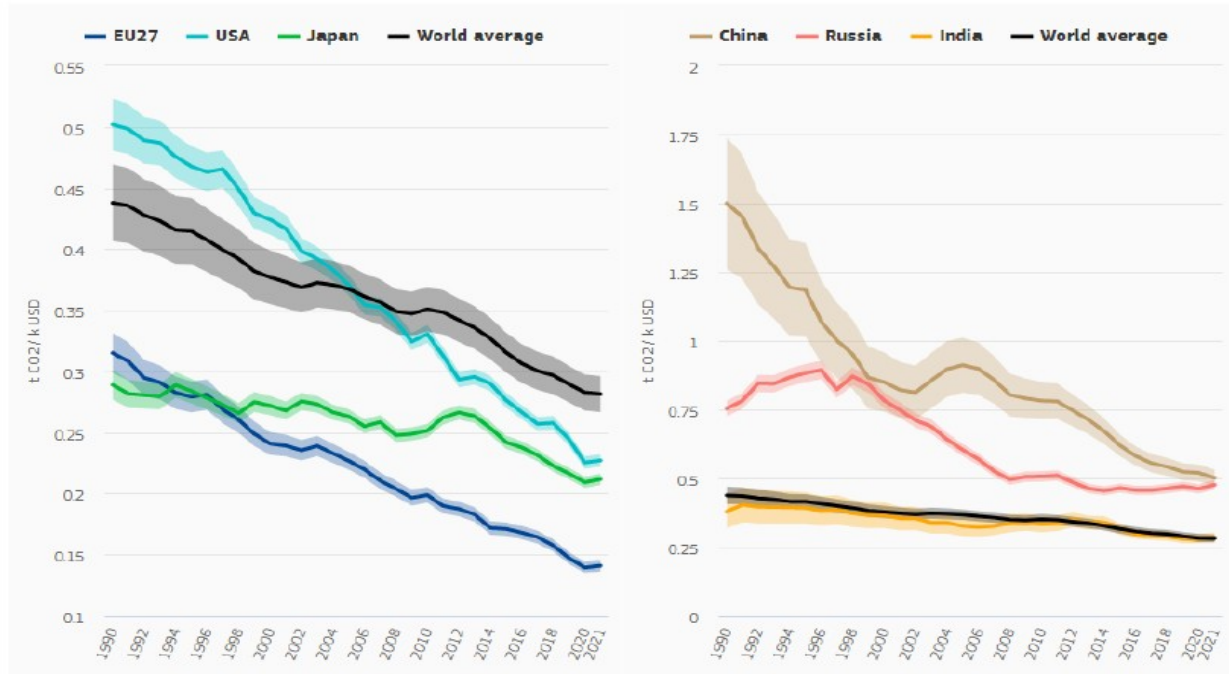
**Figure 36: CO<sub>2</sub> emissions in top emitting countries and estimated uncertainty (coloured bands), 1970-2021 (in Gigatons)<sup>298</sup>**



**Figure 37: CO<sub>2</sub> emissions per capita in top emitting countries and estimated uncertainty (coloured bands), 1970-2021 (tons CO<sub>2</sub>/cap)<sup>299</sup>**



**Figure 38: CO<sub>2</sub> emissions per unit of GDP PPP in top emitting countries and estimated uncertainty (coloured bands), 1990-2021 (tons CO<sub>2</sub>/k USD). On the left hand side industrialised countries are represented while the emerging economies [although the UN standard of regarding China as “emerging” is very questionable at best!] are on the right hand side. The black line in both represents the global average. NOTE how the blue USA line is now well below the global average while China is well above it.<sup>300</sup>**

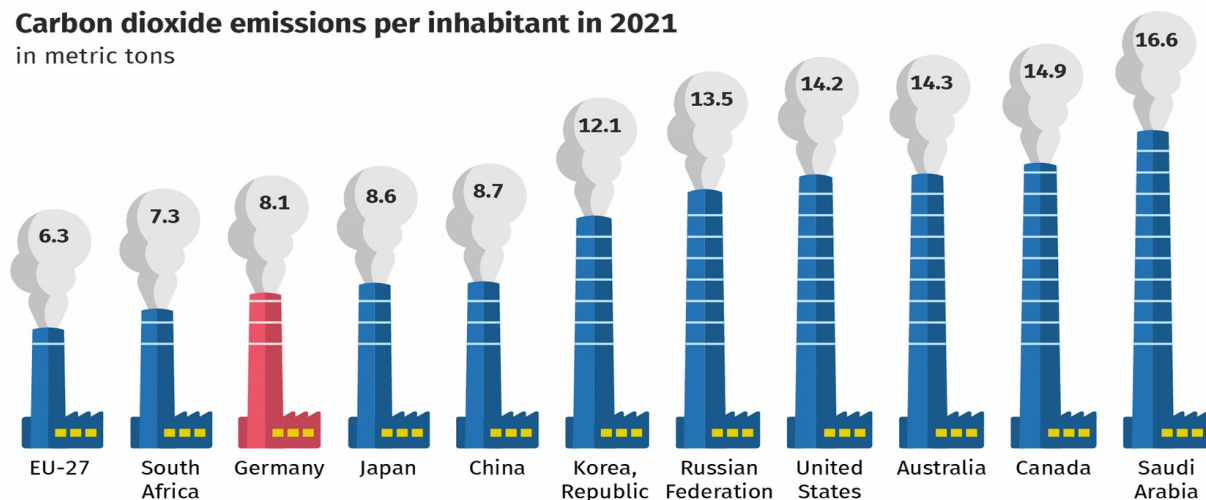


Source: JRC, 2022

Figures 36, 37 and 38 focused only upon the top raw CO<sub>2</sub> emitting countries. Figure 38 however, ranks the top 10 countries and European Union purely based on CO<sub>2</sub> emissions per head of population, which places Saudi Arabia, Canada, Australia and the United States in that order as the top four.

**Figure 39.**<sup>301</sup>

### Carbon dioxide emissions per inhabitant in 2021 in metric tons



Source: EDGAR/JRC

© Statistisches Bundesamt (Destatis), 2022

But finally; as figure 40 shows, Saudi Arabia, Canada and Australia collectively only account for 4% of global CO<sub>2</sub> emissions.

**Figure 40: CO<sub>2</sub> emission changes in the periods 2019-2020, 2020-2021, 2019-2021 and the CAGR in 1990-2021 (%). Compound annual growth rate (CAGR) calculates annual changes over a specified number of years as if this change had happened steadily each year over that time period.<sup>302</sup>**

	Share in global	Change 2019-2020	Change 2020-2021	Change 2019-2021	CAGR 1990-2021
China	32.9%	1.5%	4.3%	5.9%	5.4%
United States	12.6%	-10.9%	6.5%	-5.2%	-0.2%
EU27	7.3%	-10.8%	6.5%	-5.0%	-1.0%
India	7.0%	-6.5%	10.5%	3.3%	4.9%
Russia	5.1%	-4.5%	8.1%	3.2%	-0.7%
Japan	2.9%	-7.6%	2.8%	-5.0%	-0.2%
Iran	1.9%	3.1%	2.9%	6.1%	4.1%
South Korea	1.7%	-6.9%	3.5%	-3.6%	2.7%
Indonesia	1.6%	-8.7%	1.9%	-6.9%	4.3%
Saudi Arabia	1.5%	-0.4%	2.0%	1.6%	4.0%
Canada	1.5%	-9.9%	2.8%	-7.4%	0.8%
Brazil	1.3%	-7.7%	11.0%	2.4%	2.5%
South Africa	1.2%	-9.1%	1.8%	-7.4%	1.1%
Turkey	1.2%	-0.1%	8.0%	7.9%	3.6%
Mexico	1.1%	-16.7%	4.3%	-13.1%	1.2%
Australia	1.0%	-7.4%	-2.4%	-9.6%	0.9%
Global		-5.3%	5.3%	-0.4%	1.7%
International aviation	1.0%	-45.3%	15.4%	-36.8%	1.3%
International shipping	1.8%	-2.6%	4.9%	2.2%	2.1%

Source: JRC 2022

Quoting the description immediately given below this table in the Science for Policy report 2022 by the Joint Research Centre (JRC) of the European Commission's science and knowledge service:

“China’s fossil CO<sub>2</sub> emissions increased by 4.3% in 2021 compared to 2020, reaching 12.5 Gigatons. Added to the 1.5% increase observed in 2020, China’s annual emissions were 5.9% higher in 2021 than in 2019 (before the pandemic). China’s emissions in 2021 were more than five times larger than in 1990 and accounted for 32.9% of global emissions (in 1990, this share was 10.7%). This increase in emissions in 2021 is mainly due to increases in oil and gas consumption (by 6.5% and 12.5%, respectively) and a 4.6% increase in coal consumption, which continued to be the largest fraction of fossil fuel consumption (54.7%). In 2021, oil and gas consumption represented 19.4% and 8.6% of China’s fossil fuel consumption, respectively. In 2021, the sectors contributing the most to the fossil CO<sub>2</sub> emissions were power generation (44%) and other industrial combustion (27%). In 2021, the emissions from these sectors increased by 4.7% and 5.6%, respectively, compared to 2020. The per capita CO<sub>2</sub> emissions in 2021 (8.73 t CO<sub>2</sub>/cap) were 4.0% higher than in 2020 (8.39 t CO<sub>2</sub>/cap), while CO<sub>2</sub> emissions per GDP PPP amounted to 0.501 t CO<sub>2</sub>/k USD, which is the highest CO<sub>2</sub> intensity of top emitting economies.”<sup>303</sup>

From 2019 to 2021, CO<sub>2</sub> emissions in the US, Canada, Australia, Japan, South Korea, EU all dropped, but as this 2022 European Commission report implies, these drops have been swamped by China’s overwhelming corresponding rise in CO<sub>2</sub> emissions! If the objective is to ostensibly “save the planet” from the Climate Apocalypse, then what is the point of such “noble” but clearly economic wrecking ball policies when China, even by official pro-Globalist entity figures as the European Commission, is thumbing our noses in it? And more to the point, to again reiterate, as already discussed in depth, CO<sub>2</sub> is NOT toxic to the planet, but rather absolutely essential to plants, and so by natural logical extension, to all life on our planet! We are still living in a CO<sub>2</sub> starved era

of our planet's natural history, to further emphasise the Globalist agenda driven madness at the behest of unelected bureaucrats of the UN and its synonymous World Economic Forum, our world is spiralling into. To which, the ongoing Australian energy suicide of abandoning reliable coal for the pipe dream of of unreliable "renewables" of wind and solar, so enthusiastically and gleefully affirmed by the Socialist Labor government of Anthony Albanese, is resoundingly poignant.

## **THE ABANDONMENT OF RELIABLE COAL IN AUSTRALIA IN BLIND SUBSERVIENCE TO THE CLIMATE APOCALYPSE NARRATIVE**

In Australia, the four states still using coal-fired power stations, are Queensland with eight, New South Wales with four, and Victoria and Western Australia each with three, for a total of eighteen nationally.<sup>304</sup> The Australian Capital Territory (ACT) does not use coal or oil to generate electricity. The Kingston Powerhouse being the last coal-fired power station in the territory, which was decommissioned in 1957.<sup>305</sup> In 2020, an article by ICLEI,<sup>viii</sup> it was claimed that the ACT sourced its entire power from renewables,<sup>306</sup> yet an Australian Broadcasting Corporation (ABC) article dated October 2019, still reported:

"Rather, for every watt of power the ACT consumes, it pays one back through its renewable investments around the country.

Climate Council senior researcher Tim Baxter said ACT homes still consumed energy produced by coal and gas plants."<sup>307</sup>

Thus, when the ACT's renewable sources are insufficient, the ACT receives reserve power from suppliers in NSW, including from non renewable sources.<sup>308</sup> Much faith it seems, is being placed in solar battery storage facilities in home.<sup>309</sup>

The Northern Territory relies predominantly on natural gas, as well as various renewable energy sources. Likewise, it has no functioning coal-fired power stations.<sup>310</sup>

South Australia previously had a number of coal power stations. The last to be closed were the Northern and Playford B power stations in 2018.<sup>311</sup>

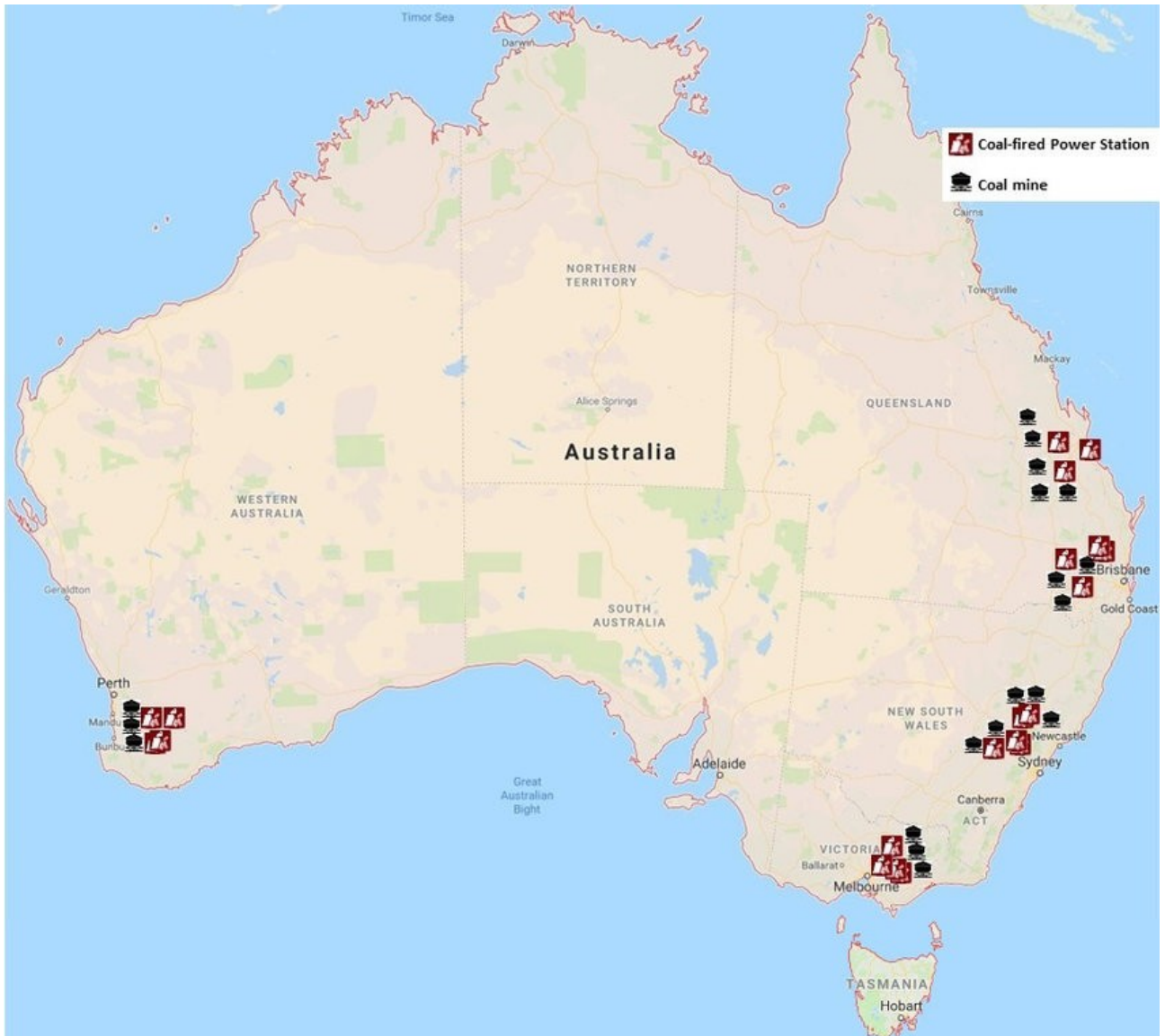
Tasmania has no functioning coal-fired power stations, instead using primarily hydroelectricity, with natural gas used as a backup. Traditionally, Tasmania has overwhelmingly used hydro-power,<sup>312</sup> with its first hydro-power project – the Duck Reach Power Station – completed in 1895 and operational until 1955.<sup>313</sup>

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viii Founded in 1990 as the *International Council for Local Environmental Initiatives* but known now simply as *Local Governments for Sustainability* and funded by the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) through the International Climate Initiative (IKI). <https://www.abbreviations.com/ICLEI> and <https://iclei.org/>.



**Figure 41: Australian Coal-fired power stations in relation to coal mines.**<sup>314</sup>



In April this year of 2023, the Hunter Valley Liddell Power Station closed after 52 years of operation<sup>315</sup>, twenty years past what was its use-by date. Presently, the Callide C power station in Queensland is not slated for closure, nor is the Bluewaters station in Western Australia, but all the others are. The latest being in 2051, six this decade of the 2020s, five in the 2030s and four in the 2040s as shown in the table in figure 41 below.

**Figure 42: Table of presently operating Australian coal-fired power plants.**<sup>316</sup>

### New South Wales

Power station	Commission year	Scheduled closure year	Max. capacity (MW)	CO <sub>2</sub> emissions (t CO <sub>2</sub> -e/year)	Emission intensity (t CO <sub>2</sub> -e/MWh)	Turbines	Coal type	Conveyance	Mine type	Cooling water	Status	Owner
Bayswater	1982 <sup>[4]</sup>	2033 <sup>[5]</sup>	2,640	13,725,965 <sup>[6]</sup>	0.88 <sup>[6]</sup>	4	bituminous	conveyors, rail	open cut	fresh	Active	AGL
Eraring	1982 <sup>[4]</sup>	2025 <sup>[7][8]</sup>	2,880	14,914,916 <sup>[6]</sup>	0.87 <sup>[6]</sup>	4	bituminous	rail, truck	underground	salt	Active	Origin
Mt Piper	1993 <sup>[4]</sup>	2040 <sup>[9][10]</sup>	1,400	6,841,302 <sup>[6]</sup>	0.87 <sup>[6]</sup>	2	bituminous	road, conveyor	underground	fresh	Active	EnergyAustralia
Vales Point B	1978 <sup>[4]</sup>	2029 <sup>[11]</sup>	1,320	7,015,626 <sup>[6]</sup>	0.86 <sup>[6]</sup>	2	bituminous	conveyors	underground	salt	Active	Delta

Total (MW): 8,240

### Queensland

Power station	Commission year	Scheduled closure year	Max. capacity (MW)	CO <sub>2</sub> emissions (t CO <sub>2</sub> -e/year)	Emission intensity (t CO <sub>2</sub> -e/MWh)	Turbines	Coal type	Conveyance	Mine type	Cooling water	Status	Refs	Owner
Callide B	1989 <sup>[4]</sup>	2028 <sup>[12]</sup>	700	5,103,540 <sup>[6]</sup>	0.92 <sup>[6]</sup>	2	bituminous	conveyor	open cut	fresh	Active	<sup>[13][14]</sup>	CS Energy, InterGen
Callide C	2001 <sup>[4]</sup>	Not Announced <sup>[15]</sup>	810	5,265,665 <sup>[6]</sup>	0.9 <sup>[6]</sup>	2	bituminous	conveyor	open cut	fresh	Active	<sup>[13][14]</sup>	CS Energy, InterGen
Gladstone	1976 <sup>[4]</sup>	2035 <sup>[12]</sup>	1,680	8,547,021 <sup>[6]</sup>	0.95 <sup>[6]</sup>	6	bituminous	rail	open cut	seawater	Active	<sup>[13]</sup>	Rio Tinto, NRG
Kogan Creek	2007 <sup>[4]</sup>	2042 <sup>[15]</sup>	750	4,360,686 <sup>[6]</sup>	0.83 <sup>[6]</sup>	1	bituminous	conveyor	open cut	dry cooled	Active	<sup>[13]</sup>	CS Energy
Millmerran	2002 <sup>[4]</sup>	2051 <sup>[15]</sup>	852	5,794,351 <sup>[6]</sup>	0.82 <sup>[6]</sup>	2	bituminous	conveyor	open cut	dry cooled	Active	<sup>[13]</sup>	InterGen <sup>[16]</sup>
Stanwell	1993 <sup>[4]</sup>	2046 <sup>[15]</sup>	1,445	7,637,735 <sup>[6]</sup>	0.87 <sup>[6]</sup>	4	bituminous	rail	open cut	fresh	Active	<sup>[13]</sup>	Stanwell
Tarong	1984 <sup>[4]</sup>	2037 <sup>[15]</sup>	1,400	10,473,950 <sup>[6]</sup>	0.86 <sup>[6]</sup>	4	bituminous	conveyor	open cut	fresh	Active	<sup>[13][17]</sup>	Stanwell
Tarong North	2002 <sup>[4]</sup>	2037 <sup>[15]</sup>	443			1	bituminous	conveyor	open cut	fresh	Active	<sup>[13]</sup>	Stanwell

Total (MW): 8,080

### Victoria

Power station	Commission year	Scheduled closure year	Max. capacity (MW)	CO <sub>2</sub> emissions (t CO <sub>2</sub> -e/year)	Emission intensity (t CO <sub>2</sub> -e/MWh)	Turbines	Coal type	Conveyance	Mine type	Cooling water	Status	Owner
Loy Yang A	1984 <sup>[4]</sup>	2035 <sup>[18]</sup>	2200	20,107,115 <sup>[6]</sup>	1.17 <sup>[6]</sup>	4	lignite	conveyors	open cut	fresh cooling tower	Active	AGL
Loy Yang B	1993 <sup>[4]</sup>	2047 <sup>[15]</sup>	1050	10,132,776 <sup>[6]</sup>	1.14 <sup>[6]</sup>	2	lignite	conveyors	open cut	fresh cooling tower	Active	Chow Tai Fook, Alinta Energy <sup>[19]</sup>
Yallourn Power Station	1975 <sup>[4]</sup>	2028 <sup>[20][21]</sup>	1480	13,856,313 <sup>[6]</sup>	1.34 <sup>[6]</sup>	4	lignite	conveyors	open cut	fresh cooling tower	Active	EnergyAustralia

Total (MW): 4,730

### Western Australia

Power station	Commission year	Scheduled closure year	Max. capacity (MW)	CO <sub>2</sub> emissions (t CO <sub>2</sub> -e/year)	Emission intensity (t CO <sub>2</sub> -e/MWh)	Turbines	Coal type	Conveyance	Mine type	Cooling water	Status	Owner
Collie	1999 <sup>[4]</sup>	2027 <sup>[22]</sup>	340	1,848,693 <sup>[6]</sup>	0.91 <sup>[6]</sup>	1	bituminous	conveyor	open cut	fresh	Active	Synergy
Muja	1981 <sup>[4]</sup>	2022 (Unit 5) <sup>[22]</sup> 2024 (Unit 6) <sup>[23]</sup> 2029 (Units 7 & 8) <sup>[22]</sup>	854	3,982,663 <sup>[6]</sup>	0.9 <sup>[6]</sup>	4	bituminous	conveyor	open cut	fresh	Active (units 1-4 closed)	Synergy
Bluewaters	2009 <sup>[4]</sup>	–	416	2,966,541 <sup>[6]</sup>	0.88 <sup>[6]</sup>	2	bituminous	conveyor	open cut	fresh	Active	Sumitomo Group, Kansai Electric

Total (MW): 1,717

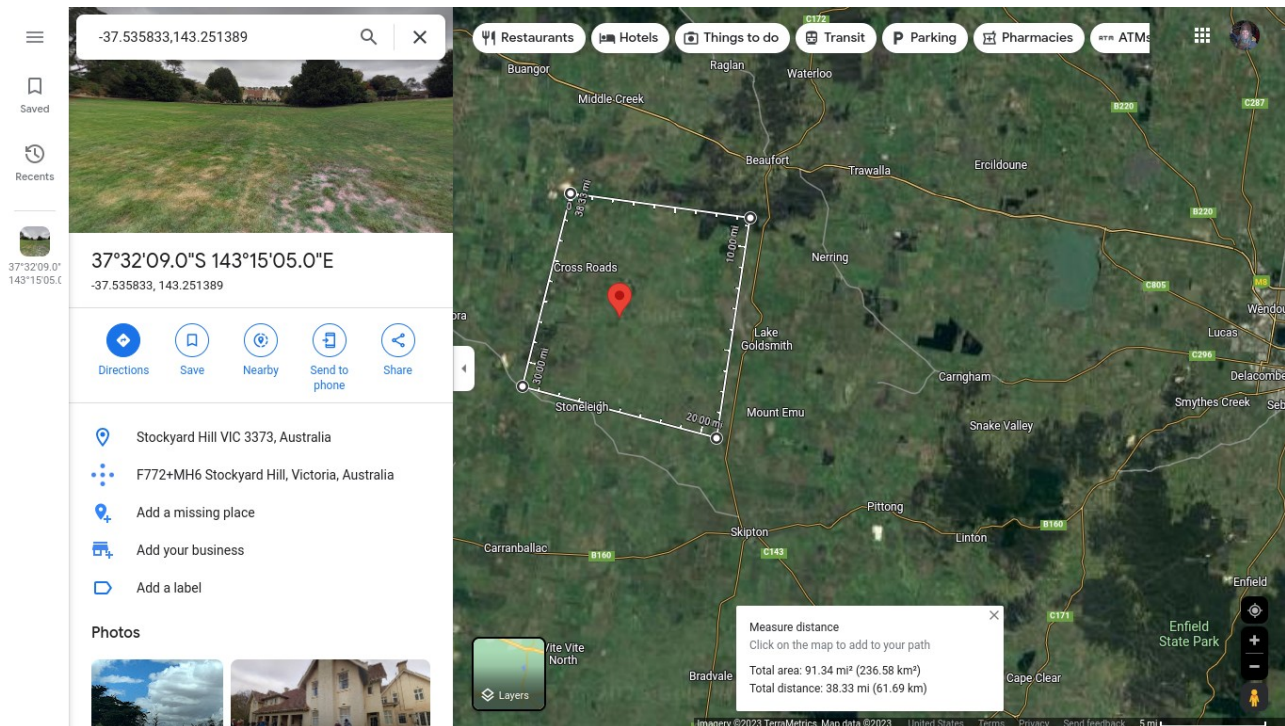
- Kwinana A (240 MW) was shut down in 2010, and Kwinana C (400 MW) was shut down in 2015.<sup>[24]</sup>

One thing to consider, is the following. The power generating capacity of these coal fired power plants ranges from a maximum of 2,880 Megawatts for the NSW Eraring plant, slated for closure as soon as 2025, to as low as 416 Megawatts for Western Australia's Bluewaters plant still not slated for closure. However, the Australian Wind Farm with presently the highest capacity of 530 Megawatts,<sup>317</sup> is the Stockyard Hill Wind Farm located near Ballarat, Victoria,<sup>318</sup> about 150 kilometres west of Melbourne. All 149 turbines of the wind farm were installed by December 2020,<sup>319</sup> and the perimeter of the wind farm stretches to 5km south of Beaufort near the Western



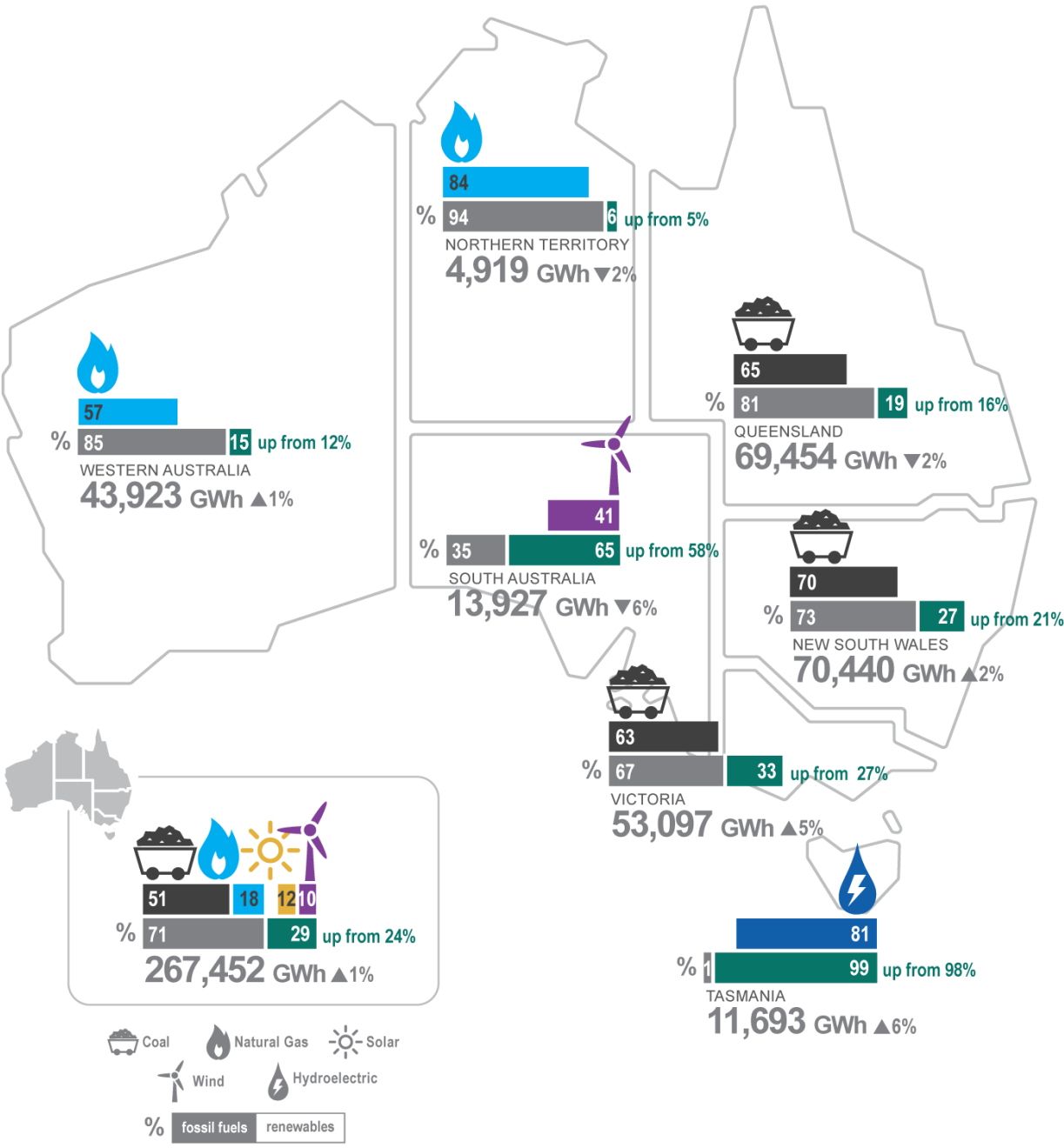
Highway and approximately 4km north of Skipton. On Google maps, I made out the perimeter of the wind farm to be as follows in figure 43:

**Figure 43: Extrapolated position and area of Stockyard Hill Wind Farm near Ballarat Victoria Australia.**<sup>320</sup>

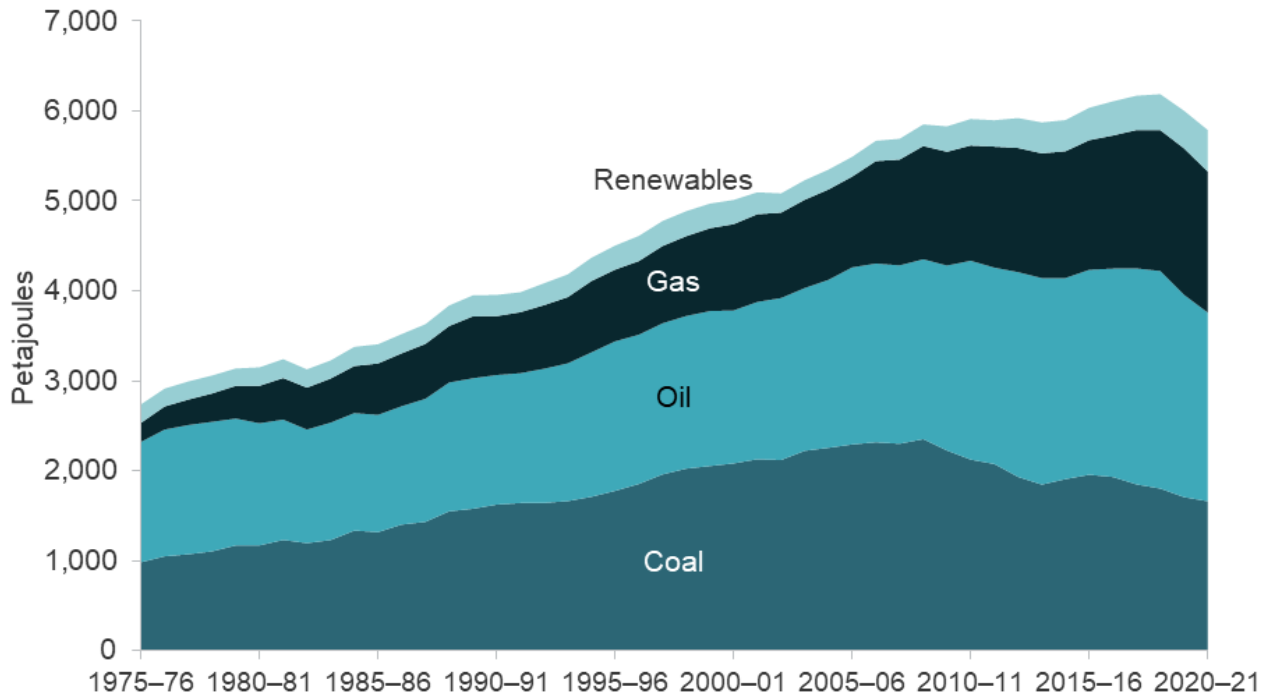


It seems the area of this wind farm of 149 turbines, would be from the perimeter I have extrapolated, to be 91.4 square miles or 236.6 square kilometres, to power approximately 391,000 Victorian households and offset approximately two million tonnes of CO<sub>2</sub><sup>321</sup> The population of the Victorian state capital Melbourne is just over five million, with it is estimated 1.8 million households.<sup>322</sup> Hence it seems, it would take  $1,800,000/391,000 = 4.6$  Stockyard Hill wind farms or  $236.6 \text{ square kilometres} \times 4.6 = 1090 \text{ square kilometres}$  of wind farm to power 1.8 million Melbourne households. Thus, wind power is hardly what you would call energy dense or efficient. Not to mention the CO<sub>2</sub> footprint involved in manufacturing every monstrosity of a wind turbine, in terms of copper wire, steel and yes indeed, wood for the propellers, all in the name of negating the footprint of an absolute essential for life on Earth! And as the following graphics in **figures 44 and 45 clearly highlight**, the unrealistic notion of converting a still overwhelmingly fossil energy dependent Australia to nefarious narrative driven unreliable “renewables.”

**Figure 44: Australian Energy Statistics; Electricity generation by fuel type 2020-21. Publisher Department of Industry, Science, Energy and Resources. Date: Thursday 14 April 2022 Topic Electricity Electricity generation Energy data<sup>323</sup>**



**Figure 45: Australian energy consumption by fuel type from 1975-76 to 2020-21.<sup>324</sup> 1 Petajoule (PJ) =  $10^{15}$  joules = 277777777.778 Kilowatt-Hours =  $277.8 \times 10^6$  Kilowatt-Hours = 277.8 Gigawatt-Hours. This figure shows Australian energy consumption, by fuel type in PJ from 1975-76 to 2020-21. Energy consumption fell 4% in 2020-21 to reach 5,790 PJ. This compares with average falls of 0.2% a year over the past 10 years. Fossil fuels (coal, oil and gas) accounted for 92% of Australia's primary energy mix in 2020-21.**



### **The MOOT question: What is the overall Carbon footprint of “renewables” versus fossil fuels?**

For Catastrophic Climate Change alarmists, the above question is of paramount and critical importance, given their assumption that CO<sub>2</sub> is toxic and destructive for the planet. A Reuters report on September 11, 2021, claims that wind power is one of the cleanest forms of energy, with a carbon footprint 99% lower than coal and 75% less than solar,<sup>ix</sup> according to a study by Bernstein Research, a U.S.-based research and brokerage firm.<sup>325</sup> <sup>x</sup> However, the plethora of research documented in this essay, not only comprehensively debunks this notion, proving the inexorable imperative and benefit of CO<sub>2</sub> for life, and in turn, reveals the nefarious agenda embodied by it.

Rather, especially given the fact that concerns for our environment and climate extend way beyond just CO<sub>2</sub>, more pertinent, are the following facts, relating to the material realities of “green” energy as documented in the Executive Summary by Mark P. Mills – a senior fellow at the Manhattan Institute and a faculty fellow at Northwestern University’s McCormick School of Engineering and Applied Science:

ix Solar panels need aluminium framing, to which, the mining and extraction of aluminium from the bauxite mineral entail a significant CO<sub>2</sub> footprint. See <https://pv-magazine-usa.com/2020/12/08/solar-needs-aluminum-but-the-metal-has-a-carbon-problem>.

x More specifically from this report, they figure that wind turbines average just 11 grams of CO<sub>2</sub> emission per kilowatthour of electricity generated. That compares with 44 g/kwh for solar, 450 g for natural gas, and a whopping 1,000 g for coal. But beating them all is the original large-scale zero-carbon power source, nuclear power, at 9 g/kwh. See <https://www.forbes.com/sites/christopherherhman/2021/04/28/how-green-is-wind-power-really-a-new-report-tallies-up-the-carbon-cost-of-renewables>.

1) Building wind turbines and solar panels to generate electricity, as well as batteries to fuel electric vehicles, requires, on average, more than 10 times the quantity of materials, compared with building machines using hydro-carbons [fossil fuels] to deliver the same amount of energy to society.

2) A single electric car contains more cobalt than 1,000 smartphone batteries; the blades on a single wind turbine have more plastic than 5 million smartphones; and a solar array that can power one data center uses more glass than 50 million phones.

3) Replacing hydrocarbons with green machines under current plans—never mind aspirations for far greater expansion will vastly increase the mining of various critical minerals around the world. For example, a single electric car battery weighing 1,000 pounds requires extracting and processing some 500,000 pounds of materials. Averaged over a battery's life, each mile of driving an electric car “consumes” five pounds of earth. Using an internal combustion engine consumes about 0.2 pounds of liquids per mile.

4) Oil, natural gas, and coal are needed to produce the concrete, steel, plastics, and purified minerals used to build green machines. The energy equivalent of 100 barrels of oil is used in the processes to fabricate a single battery that can store the equivalent of one barrel of oil.

5) By 2050, with current plans, the quantity of worn-out solar panels—much of it nonrecyclable—will constitute double the tonnage of all today's global plastic waste, along with over 3 million tons per year of unrecyclable plastics from worn-out wind turbine blades. [*As indeed alluded to in the just mentioned Reuters September 11, 2021 article.*<sup>326</sup>] By 2030, more than 10 million tons per year of batteries will become garbage.<sup>327</sup>

Moreover, as Physics Master Norman Rogers, formerly on the board of the National Association of Scholars, and author of the most poignantly titled *Dumb Energy*,<sup>328</sup> stated in his October 2021 article on the CO<sub>2</sub> Coalition website:

“The government and big financial institutions promote a fraudulent analysis of the cost of solar and wind electricity. Their narrative is that wind and solar are competitive with traditional fossil fuels and that the cost of wind and solar is rapidly dropping. Academics and the media amplify and spread the fraudulent analysis.

The basis of the fraud [*in this era of agenda-driven science compelled to conform to a given nefarious narrative*] is a simple comparison of the cost per kilowatt-hour at the plant fence for electricity produced by wind or solar versus electricity produced by a traditional plant. Some or all of the massive subsidies for wind and solar are ignored in such comparisons. With such a rigged comparison, wind or solar may seem competitive.

A proper comparison reveals that wind or solar is five or even ten times more expensive than natural gas or coal electricity. To understand why this is so, we have to explain some basic facts that apply to either wind or solar.

Wind or solar is erratic, intermittent electricity. It comes and goes according to the supply of wind and sunlight. Wind is erratic from day to day and usually has a seasonal cycle. Sunlight depends on clouds, seasons and, of course, does not work at night. The consequence is that wind or solar electricity supply must be 100% backed up by conventional electricity plants. If 100% backup is neglected, rolling blackouts are the result when there is a lull in wind or solar production. The lull can be of short duration or seasonal.”<sup>329</sup> [*To reiterate, just as Western Europe has experienced with its insane shut down of coal fired power stations.*]

And from Professor Gordon Hughes School of Economics, University of Edinburgh:

“Far from falling, the operating costs per MW of new capacity have increased significantly for both onshore and offshore wind farms over the last two decades. In addition, operating costs for existing wind farms tend to increase even more rapidly as they age. The cost increase for new capacity seems to be due to the shift to sites that are more remote or difficult to service. Much of the increase with age is due to the frequency of equipment failures and the need for preventative maintenance, both of which are strongly associated with the adoption of new generations of larger turbines – both onshore and offshore.”<sup>330</sup>

And in reference to the limited physical and economically viable lifetime of wind turbines, as again documented by Professor Gordon Hughes:

“Even if there is no decline in performance with age, the generation revenues will fall below expected operating costs in year 14. If there is a decline in performance comparable to the experience in Denmark, then generation revenues will be less than expected operating costs from year 11. There is no likelihood that the project will continue to operate after the expiry of the CfD [*Contract for Difference*<sup>xi</sup>] contract, since it would incur a loss of about £170 million per year.

Based on these figures no reasonable investor should assume an economic life greater than 15 years for offshore wind and a prudent, risk-averse view might imply an economic life of no more than 12 years. For onshore wind the economic life might be between 15 and 18 years depending on what assumption is made about future market prices, but a prudent assessment would imply an economic life of 15 years.”<sup>331</sup>

Finally in conclusion, as if to further confirm the poignancy of the title of Norman Rogers’ book *Dumb Energy*,<sup>332</sup> it was back in February this year of 2023, just two months before the Hunter Valley Liddell coal-fired power station was closed, Senator John Neely Kennedy, Republican of Louisiana, briefly but very revealingly grilled two esteemed Climate Change experts; Dr. Robert Litterman, Founding partner Kepos Capital Chair, Climate Related Market Risk Subcommittee U.S. Commodity Futures Trading Commission and Dr. Douglas Holz-Eakin, President of The American Action Forum.<sup>333</sup> Here is how three-and-a-half minutes of this exchange unfolded:

**Senator Kennedy:** Dr. Litterman, how long have you been studying climate change and possible solutions?

**Dr. Litterman:** Studying? Well I was head of risk management at Goldman Sachs. I didn’t worry too much about climate change at that time.

**Senator Kennedy:** Just give me the number of years if you would.

**Dr. Litterman:** How many years? Let’s say fifteen.

**Senator Kennedy:** And how about you Dr. Holtz-Eakin?

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xi A Contract for Difference (CFD) refers to a contract that enables two parties to enter into an agreement to trade on financial instruments based on the price difference between the entry prices and closing prices. If the closing trade price is higher than the opening price, then the seller will pay the buyer the difference, and that will be the buyer’s profit. The opposite is also true. That is, if the current asset price is lower at the exit price than the value at the contract’s opening, then the seller, rather than the buyer, will benefit from the difference. See <https://corporatefinanceinstitute.com/resources/derivatives/contract-for-difference-cfd/>.

**Dr. Holtz-Eakin:** About twenty-five.

**Senator Kennedy:** Dr. Litterman, how much would it cost to make the United States of America carbon neutral by 2050.

**Dr. Litterman:** I don't know sir.

**Senator Kennedy:** So you are advocating we do these things but you don't know the ultimate cost?

**Dr. Litterman:** Yes absolutely. I certainly don't know the ultimate cost. It's very uncertain. It depends on ... innovations ...

**Senator Kennedy:** I'm just trying to lay an foundation here to understand your expert testimony. Dr. Holtz-Eakin, do you know how much it will cost to make the US carbon neutral by 2050?

**Dr. Holtz-Eakin:** It depends on how you do it. If we do it on the Federal budget, it will be super expensive.

**Senator Kennedy:** Public and private dollars. It's ultimately private dollars anyway.

**Dr. Holtz-Eakin:** Yeah I agree.

**Senator Kennedy:** So how much?

**Dr. Holtz-Eakin:** You are going to look at \$50 trillion. [Yes, I repeat, 50 trillion dollars!!!]

**Senator Kennedy:** If we make the United States of America carbon neutral by 2050, by spending 50 trillion dollars, ... which you are advocating I gather ...

**Dr. Holtz-Eakin:** No.

**Senator Kennedy:** OK. Then strike that last part. I'm wrong. You are not advocating ... although you are advocating something. [Smiles]

**Dr. Holtz-Eakin:** If you are going to do something, do something smart. That is what I advocated. [Something smart, would be to admit what a SCAM SCAM SCAM the Catastrophic Climate Change SCAM is!!!]

**Senator Kennedy:** If we spend 50 trillion dollars to make the United States of America carbon neutral by 2050, how much would that lower world temperatures?

**Dr. Holtz-Eakin:** I can't answer that, because I do not know what China, India and the rest of the world has done.

**Senator Kennedy:** Had you heard anything from the Biden administration saying how much it would lower world temperatures?

**Dr. Holtz-Eakin:** No.



**Senator Kennedy:** Does anybody know how much it won't lower world temperatures? ... No?

**Dr. Holtz-Eakin:** No one can know for sure.

**Senator Kennedy:** Ok. Dr. Litterman ...

**Dr. Litterman:** Yes ...

**Senator Kennedy:** If we spend 50 trillion dollars or however much it takes, to make the United States carbon neutral by 2050, how much would it lower world temperatures?

**Dr. Litterman:** Senator, that depends on the rest of the world ... We have to work with the rest of the world. We are in this together. It's one world. We can't build a wall around the United States and say ...

**Senator Kennedy:** What if we spend 50 trillion dollars, Europe cooperates, most Western democracies cooperate, but India and China don't, how much would our 50 trillion dollars lower world temperatures?

**Dr. Litterman:** We are in this together, Senator, we have to get the world to work together ...

**Senator Kennedy:** I get that. How much would it lower world temperatures?

**Dr. Litterman:** If China and India do not help?

**Senator Kennedy:** Yes.

**Dr. Litterman:** I don't know. [*But let's still spend 50 trillion dollars anyway and hope a mass-murdering genocidal communist regime will eventually cooperate with us on this Catastrophic Climate Change Scam!!!! Fair dinkum!! We live on planet **CLOWN!!***]

Ultimately, anything but anything with the paws of Klaus Schwab's World Economic Forum and its strategic partner the United Nations,<sup>334</sup> their sub-entities like the WHO and pro-Hamas UNRWA<sup>335</sup> and intimately linked NGOs like the International Commission of Jurists (ICJ)<sup>xii</sup> all over it, can only embody an agenda of nefarious intent.<sup>xiii</sup>

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xii See page 33 of my submission against the Australian Federal Labor (Socialist) government's August 2023 *Communications Legislation Amendment (Combating Misinformation and Disinformation) Bill 2023* at [https://vincebarwinski.com/wp-content/uploads/2023/08/COMPLETE\\_submission\\_against\\_combatting\\_acma\\_misinformation\\_and\\_disinformation\\_bill\\_2023.pdf](https://vincebarwinski.com/wp-content/uploads/2023/08/COMPLETE_submission_against_combatting_acma_misinformation_and_disinformation_bill_2023.pdf).

xiii See footnote <sup>iii</sup> and pages 34 to 35 of my submission against the Australian Federal Labor (Socialist) government's August 2023 *Communications Legislation Amendment (Combating Misinformation and Disinformation) Bill 2023* at [https://vincebarwinski.com/wp-content/uploads/2023/08/COMPLETE\\_submission\\_against\\_combatting\\_acma\\_misinformation\\_and\\_disinformation\\_bill\\_2023.pdf](https://vincebarwinski.com/wp-content/uploads/2023/08/COMPLETE_submission_against_combatting_acma_misinformation_and_disinformation_bill_2023.pdf).

1 [https://www.un.org/en/development/desa/population/migration/generalassembly/docs/globalcompact/A\\_CONF.151\\_26\\_Vol.I\\_Declaration.pdf](https://www.un.org/en/development/desa/population/migration/generalassembly/docs/globalcompact/A_CONF.151_26_Vol.I_Declaration.pdf)

2 <https://www.epa.gov/archive/epa/aboutepa/road-rio.html>

3 <https://www.epa.gov/archive/epa/aboutepa/road-rio.html>

4 <https://www.epa.gov/archive/epa/aboutepa/road-rio.html>

5 <https://www.epa.gov/archive/epa/aboutepa/products-1992-earth-summit.html>

6 <https://www.epa.gov/archive/epa/aboutepa/products-1992-earth-summit.html>

7 <https://sdgs.un.org/sites/default/files/publications/Agenda21.pdf>

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112 Pages 72 to 73 of Patrick Moore's *Fake Invisible Catastrophes and Threats of Doom* <https://www.amazon.com/Fake-Invisible-Catastrophes-Threats-Doom/dp/B08TFYJFMR>, ISBN-13: 979-8-5685-9550-2.

113 <sup>189</sup> Pages 60 to 61 of Patrick Moore's *Fake Invisible Catastrophes and Threats of Doom* <https://www.amazon.com/Fake-Invisible-Catastrophes-Threats-Doom/dp/B08TFYJFMR>, ISBN-13: 979-8-5685-9550-2.

114 [https://gogreencanada.ucoz.com/index/ice\\_age\\_timelines/0-52](https://gogreencanada.ucoz.com/index/ice_age_timelines/0-52)

115 Pages 60 to 61 of Patrick Moore's *Fake Invisible Catastrophes and Threats of Doom* <https://www.amazon.com/Fake-Invisible-Catastrophes-Threats-Doom/dp/B08TFYJFMR>, ISBN-13: 979-8-5685-9550-2. Moore's graph is reconstructed from data sourced from Page 222 of *Target Atmospheric CO2: Where Should Humanity Aim?* James Hansen\*, Makiko Sato<sup>1,2</sup>, Pushker Kharecha, David Beerling<sup>3</sup>, Robert Berner<sup>4</sup>, Valerie

Masson-Delmotte, Mark Pagani, Maureen Raymo, Dana L. Royer and James C. Zachos at [https://pubs.giss.nasa.gov/docs/2008/2008\\_Hansen\\_ha00410c.pdf](https://pubs.giss.nasa.gov/docs/2008/2008_Hansen_ha00410c.pdf).

116 Ibid.

117 <sup>55</sup> Page 222 of *Target Atmospheric CO<sub>2</sub>: Where Should Humanity Aim?* James Hansen\*, Makiko Sato<sup>1,2</sup>, Pushker Kharecha, David Beerling<sup>3</sup>, Robert Berner<sup>4</sup>, Valerie Masson-Delmotte, Mark Pagani, Maureen Raymo, Dana L. Royer and James C. Zachos at [https://pubs.giss.nasa.gov/docs/2008/2008\\_Hansen\\_ha00410c.pdf](https://pubs.giss.nasa.gov/docs/2008/2008_Hansen_ha00410c.pdf).

118 *Laurentide Ice Sheet* January 2009 DOI: 10.1007/978-1-4020-4411-3\_128 by Arthur S. Dyke at [https://www.researchgate.net/profile/Arthur-Dyke/publication/303177019\\_Laurentide\\_Ice\\_Sheet/links/58b9b13e92851c471d4e6948/Laurentide-Ice-Sheet.pdf](https://www.researchgate.net/profile/Arthur-Dyke/publication/303177019_Laurentide_Ice_Sheet/links/58b9b13e92851c471d4e6948/Laurentide-Ice-Sheet.pdf). See also page 2 of *Buried remnants of the Laurentide Ice Sheet and connections to its surface elevation* by Denis Lacelle, David A. Fisher, Stéphanie Coulombe, Daniel Fortier and Roxanne Frappier AT <https://www.nature.com/articles/s41598-018-31166-2.pdf> AND page 62 of Patrick Moore's *Fake Invisible Catastrophes and Threats of Doom* <https://www.amazon.com/Fake-Invisible-Catastrophes-Threats-Doom/dp/B08TFYJFMR>, ISBN-13: 979-8-5685-9550-2.

119 <https://www.nicolaginzler.com/2013/06/14/xkcd-thickness-of-the-ice-sheets-21000-years-ago-compared-to-modern-skylines/> from data adapted from Data adapted from “The Laurentide and Innuitian ice sheets during the Last Glacial Maximum” by A.S. Dyke et. al AT [https://www.researchgate.net/profile/Arthur-Dyke/publication/303177019\\_Laurentide\\_Ice\\_Sheet/links/58b9b13e92851c471d4e6948/Laurentide-Ice-Sheet.pdf](https://www.researchgate.net/profile/Arthur-Dyke/publication/303177019_Laurentide_Ice_Sheet/links/58b9b13e92851c471d4e6948/Laurentide-Ice-Sheet.pdf).

120 Page 63 of Patrick Moore's *Fake Invisible Catastrophes and Threats of Doom* <https://www.amazon.com/Fake-Invisible-Catastrophes-Threats-Doom/dp/B08TFYJFMR>, ISBN-13: 979-8-5685-9550-2 AND [https://upload.wikimedia.org/wikipedia/commons/1/1d/Post-Glacial\\_Sea\\_Level.png](https://upload.wikimedia.org/wikipedia/commons/1/1d/Post-Glacial_Sea_Level.png) AND *History falsifies climate alarmist sea level claims* BY Robert W. Endlich AT <https://wattsupwiththat.com/2013/12/02/history-falsifies-climate-alarmist-sea-level-claims/>. Robert W. Endlich served as a weather officer in the US Air Force for 21 years and a US Army meteorologist for 17 years. He was elected to Chi Epsilon Pi, the national Meteorology Honor Society, while a basic meteorology student at Texas A&M University. He has degrees in geology and meteorology from Rutgers University and the Pennsylvania State University, respectively, and has studied and visited the ancient sites of Rome, Ostia Antica and Pisa.

121 Page 82 of Patrick Moore's *Fake Invisible Catastrophes and Threats of Doom* <https://www.amazon.com/Fake-Invisible-Catastrophes-Threats-Doom/dp/B08TFYJFMR>, ISBN-13: 979-8-5685-9550-2 AND <https://polarbearagreement.org/resources/the-1973-agreement-on-the-conservation-of-polar-bears>. See also page 23 of [https://www.boem.gov/sites/default/files/uploadedFiles/BOEM/About\\_BOEM/BOEM\\_Regions/Alaska\\_Region/Environment/Environmental\\_Analysis/2009\\_0901\\_BO4NS\\_LB.pdf](https://www.boem.gov/sites/default/files/uploadedFiles/BOEM/About_BOEM/BOEM_Regions/Alaska_Region/Environment/Environmental_Analysis/2009_0901_BO4NS_LB.pdf) September 1<sup>st</sup> 2009.

122 Ibid.

123 <https://polarbearagreement.org/resources/the-1973-agreement-on-the-conservation-of-polar-bears>.

124 Page 83 of Patrick Moore's *Fake Invisible Catastrophes and Threats of Doom* <https://www.amazon.com/Fake-Invisible-Catastrophes-Threats-Doom/dp/B08TFYJFMR>, ISBN-13: 979-8-5685-9550-2. See also page 13 of [https://www.boem.gov/sites/default/files/uploadedFiles/BOEM/About\\_BOEM/BOEM\\_Regions/Alaska\\_Region/Environment/Environmental\\_Analysis/2009\\_0901\\_BO4NS\\_LB.pdf](https://www.boem.gov/sites/default/files/uploadedFiles/BOEM/About_BOEM/BOEM_Regions/Alaska_Region/Environment/Environmental_Analysis/2009_0901_BO4NS_LB.pdf) September 1<sup>st</sup> 2009 which states the figure of 20,000 to 25,000 AND page 8 of [https://www.sararegistry.gc.ca/virtual\\_sara/files/cosewic/sr\\_polar\\_bear\\_e.pdf](https://www.sararegistry.gc.ca/virtual_sara/files/cosewic/sr_polar_bear_e.pdf) 2002 AND <https://www.arcticwfw.org/wildlife/polar-bear/polar-bear-population/> AND <https://fee.org/articles/the-myth-that-the-polar-bear-population-is-declining/> which sources a median figure of 26,000 from <https://www.iucnredlist.org/species/22823/14871490#population> – click on “Population in detail” to expand.

Essential reading in regard to the bias of the Climate Apocalypse narrative for polar populations is Susan Crockford's *STATE OF THE POLAR BEAR REPORT 2018* AT <https://www.thegwpf.org/content/uploads/2019/02/State-of-the-polar-bear2018.pdf> AND her updated 2019 report at [https://polarbearsience.files.wordpress.com/2020/02/crockford-2020\\_statepb2019-final.pdf](https://polarbearsience.files.wordpress.com/2020/02/crockford-2020_statepb2019-final.pdf).

125 <sup>139</sup> <https://www.nationalgeographic.co.uk/animals/2018/02/polar-bears-really-are-starving-because-of-global-warming-study-shows> AND on YouTube at [https://www.youtube.com/watch?v=\\_JhaVNJb3ag](https://www.youtube.com/watch?v=_JhaVNJb3ag) where at the time of writing has had 2.9 million views.

126 Page 84 of Patrick Moore's *Fake Invisible Catastrophes and Threats of Doom* <https://www.amazon.com/Fake-Invisible-Catastrophes-Threats-Doom/dp/B08TFYJFMR>, ISBN-13: 979-8-5685-9550-2.

127 [https://www.youtube.com/watch?v=\\_JhaVNJb3ag](https://www.youtube.com/watch?v=_JhaVNJb3ag) viewed on Tuesday 23<sup>rd</sup>, May 2023. By November 3<sup>rd</sup>, 2020 this number was already at 2.3 million. See the photo description page 84 of Patrick Moore's *Fake Invisible Catastrophes and Threats of Doom* <https://www.amazon.com/Fake-Invisible-Catastrophes-Threats-Doom/dp/B08TFYJFMR>, ISBN-13: 979-8-5685-9550-2

128 Pages 84 to 85 of Patrick Moore's *Fake Invisible Catastrophes and Threats of Doom* <https://www.amazon.com/Fake-Invisible-Catastrophes-Threats-Doom/dp/B08TFYJFMR>, ISBN-13: 979-8-5685-9550-2.

129 Pages 90 to 91 of Patrick Moore's *Fake Invisible Catastrophes and Threats of Doom* <https://www.amazon.com/Fake-Invisible-Catastrophes-Threats-Doom/dp/B08TFYJFMR>, ISBN-13: 979-8-5685-9550-2.

130 [https://www.youtube.com/watch?v=\\_JhaVNJb3ag](https://www.youtube.com/watch?v=_JhaVNJb3ag)



- 131 Page 90 of Patrick Moore's *Fake Invisible Catastrophes and Threats of Doom* <https://www.amazon.com/Fake-Invisible-Catastrophes-Threats-Doom/dp/B08TFYJFMR>, ISBN-13: 979-8-5685-9550-2.
- 132 Ibid.
- 133 [https://web.archive.org/web/20210117090600/https://www.huffingtonpost.ca/2018/11/12/nunavut-draft-plan-says-there-are-actually-too-many-polar-bears-in-territory\\_a\\_23587264/](https://web.archive.org/web/20210117090600/https://www.huffingtonpost.ca/2018/11/12/nunavut-draft-plan-says-there-are-actually-too-many-polar-bears-in-territory_a_23587264/). NOTE: The Huffington Post has removed this article by early May 2021, but it is available on the WayBack machine AND at <https://notalotofpeopleknowthat.wordpress.com/2018/11/12/nunavut-draft-plan-says-there-are-actually-too-many-polar-bears-in-territory/> and <https://www.cbc.ca/news/canada/north/too-many-polar-bears-1.4901910> and <https://polarbearsience.com/2018/11/12/nunavut-government-has-a-draft-plan-to-deal-with-unsafe-numbers-of-polar-bears/>.
- 134 Ibid.
- 135 Ibid.
- 136 [https://web.archive.org/web/20210502062348/https://www.huffingtonpost.ca/2018/11/12/nunavut-draft-plan-says-there-are-actually-too-many-polar-bears-in-territory\\_a\\_23587264/](https://web.archive.org/web/20210502062348/https://www.huffingtonpost.ca/2018/11/12/nunavut-draft-plan-says-there-are-actually-too-many-polar-bears-in-territory_a_23587264/).
- 137 [https://web.archive.org/web/20210117090600/https://www.huffingtonpost.ca/2018/11/12/nunavut-draft-plan-says-there-are-actually-too-many-polar-bears-in-territory\\_a\\_23587264/](https://web.archive.org/web/20210117090600/https://www.huffingtonpost.ca/2018/11/12/nunavut-draft-plan-says-there-are-actually-too-many-polar-bears-in-territory_a_23587264/).
- 138 <https://www.cbc.ca/news/canada/north/baffin-bay-polar-bears-nunavut-1.5472492>. See also <https://polarbearsience.com/2018/11/12/nunavut-government-has-a-draft-plan-to-deal-with-unsafe-numbers-of-polar-bears/>.
- 139 See endnote <sup>125</sup>.
- 140 Essential reading in regard to the bias of the Climate Apocalypse narrative for polar populations is Susan Crockford's *STATE OF THE POLAR BEAR REPORT 2018* AT <https://www.thegwpf.org/content/uploads/2019/02/State-of-the-polar-bear2018.pdf> AND her updated 2019 report at [https://polarbearsience.files.wordpress.com/2020/02/crockford-2020\\_statepb2019-final.pdf](https://polarbearsience.files.wordpress.com/2020/02/crockford-2020_statepb2019-final.pdf).
- 141 <https://academic.oup.com/bioscience/article/68/4/281/4644513> – BioScience, Volume 68, Issue 4, April 2018, Pages 281–287, <https://doi.org/10.1093/biosci/bix133> Published: 29 November 2017.
- 142 Pages 86 to 87 of Patrick Moore's *Fake Invisible Catastrophes and Threats of Doom* <https://www.amazon.com/Fake-Invisible-Catastrophes-Threats-Doom/dp/B08TFYJFMR>, ISBN-13: 979-8-5685-9550-2.
- 143 Page 13 of Crockford SJ (2020) *The State of the Polar Bear 2019. Report 39, The Global Warming Policy Foundation*. ISBN 978-1-9160700-6-6 AT [https://polarbearsience.files.wordpress.com/2020/02/crockford-2020\\_statepb2019-final.pdf](https://polarbearsience.files.wordpress.com/2020/02/crockford-2020_statepb2019-final.pdf).
- 144 Page 14 of Crockford SJ (2020) *The State of the Polar Bear 2019. Report 39, The Global Warming Policy Foundation*. ISBN 978-1-9160700-6-6 AT [https://polarbearsience.files.wordpress.com/2020/02/crockford-2020\\_statepb2019-final.pdf](https://polarbearsience.files.wordpress.com/2020/02/crockford-2020_statepb2019-final.pdf).
- 145 Ibid.
- 146 <sup>268</sup> <https://co2coalition.org/news/is-climate-change-the-culprit-causing-californias-wildfires/> and Page 162 of Patrick Moore's *Fake Invisible Catastrophes and Threats of Doom* January 2021 published by Ecosense Environmental Inc. <https://www.amazon.com/Fake-Invisible-Catastrophes-Threats-Doom/dp/B08TFYJFMR>, ISBN-13: 979-8-5685-9550-2. The raw data quoted by Patrick Moore was from the website of the US National Interagency Fire Center at [https://www.nifc.gov/fireInfo/fireInfo\\_stats\\_totalFires.html](https://www.nifc.gov/fireInfo/fireInfo_stats_totalFires.html). However, all the data before 1983 has now been removed, but can still be accessed in full from 1926 to 2017 on a WayBack Machine archived page dated August 10<sup>th</sup> 2018 at [https://web.archive.org/web/20180810171339/https://www.nifc.gov/fireInfo/fireInfo\\_stats\\_totalFires.html](https://web.archive.org/web/20180810171339/https://www.nifc.gov/fireInfo/fireInfo_stats_totalFires.html). The raw data for 1926 to 1970 as quoted at the bottom of the graph is available on page 537 (Series L 48-55) of *BICENTENNIAL EDITION HISTORICAL STATISTICS of the United States COLONIAL TIMES TO 1970 PART 1* at [https://fraser.stlouisfed.org/files/docs/publications/histstatus/hstat1970\\_cen\\_1975\\_v1.pdf](https://fraser.stlouisfed.org/files/docs/publications/histstatus/hstat1970_cen_1975_v1.pdf). It was Digitized for FRASER Digital Library <http://fraser.stlouisfed.org/> – Federal Reserve Bank of St. Louis.
- 147 [https://www.nifc.gov/fireInfo/fireInfo\\_stats\\_totalFires.html](https://www.nifc.gov/fireInfo/fireInfo_stats_totalFires.html) which now redirects to <https://www.nifc.gov/fire-information/statistics/wildfires>.
- 148 "Slogans in 1984: Meaning & Analysis." *Study.com*, 28 January 2021, <http://study.com/academy/lesson/slogans-in-1984-meaning-analysis.html>. Accessed Saturday March 6, 2021. Also, page 33 of the book *1984*, by George Orwell, published by Houghton Mifflin Harcourt, 1983, ISBN 0547249640, 9780547249643. See also endnote <sup>91</sup>.
- 149 [https://web.archive.org/web/20110625034302/https://www.nifc.gov/fireInfo/fireInfo\\_stats\\_totalFires.html](https://web.archive.org/web/20110625034302/https://www.nifc.gov/fireInfo/fireInfo_stats_totalFires.html)
- 150 [https://web.archive.org/web/20180810171339/https://www.nifc.gov/fireInfo/fireInfo\\_stats\\_totalFires.html](https://web.archive.org/web/20180810171339/https://www.nifc.gov/fireInfo/fireInfo_stats_totalFires.html)
- 151 The raw data for 1926 to 1970 as quoted at the bottom of the graph is available on page 537 (Series L 48-55) of *BICENTENNIAL EDITION HISTORICAL STATISTICS of the United States COLONIAL TIMES TO 1970 PART 1* at [https://fraser.stlouisfed.org/files/docs/publications/histstatus/hstat1970\\_cen\\_1975\\_v1.pdf](https://fraser.stlouisfed.org/files/docs/publications/histstatus/hstat1970_cen_1975_v1.pdf). It was Digitized for FRASER Digital Library <http://fraser.stlouisfed.org/> – Federal Reserve Bank of St. Louis.
- 152 Bottom of page 162 of Patrick Moore's *Fake Invisible Catastrophes and Threats of Doom* January 2021 published by Ecosense Environmental Inc. <https://www.amazon.com/Fake-Invisible-Catastrophes-Threats-Doom/dp/B08TFYJFMR>, ISBN-13: 979-8-5685-9550-2.
- 153 <https://harbingersdaily.com/environmentalists-made-australias-bush-fires-worse/>

154 <https://greens.org.au/nsw/policies/bushfire-risk-management> and search for text “burn”. Also WayBack machine archived copies for comparison at <https://web.archive.org/web/diff/20230302162043/20191221023936/https://greens.org.au/nsw/policies/bushfire-risk-management>.

155 <https://harbingersdaily.com/environmentalists-made-australias-bush-fires-worse/> and <https://www.news.com.au/technology/environment/the-debate-over-hazard-reduction-burns-after-catastrophic-fires/news-story/c06b3e6f9bc7429128d03bdf18a40486>.

156 <https://quadrant.org.au/opinion/doomed-planet/2019/11/the-bushfire-industrial-complex/>

157 <https://www.smh.com.au/national/green-ideas-must-take-blame-for-deaths-20090211-84mk.html>. See also <https://news.sky.com/story/australia-bushfires-kinglake-was-destroyed-by-fire-in-2009-but-is-at-risk-once-more-11905877>.

158 <https://www.weforum.org/agenda/2022/06/space-bubble-shield-to-reflect-the-sun/>

159 <https://vincebarwinski.com/2022/08/04/my-letter-to-the-australian-greens-party-who-are-you-truly-beholden-to/#sdendnote56anc>

160 <https://greens.org.au/sa/news/media-release/sarah-hanson-young-named-world-economic-forum-young-global-leader-2016> AND [https://www.younggloballeaders.org/community?utf8=%E2%9C%93&q=Sarah+Hanson-Young&x=0&y=0&status=&class\\_year=&sector=&region=#results](https://www.younggloballeaders.org/community?utf8=%E2%9C%93&q=Sarah+Hanson-Young&x=0&y=0&status=&class_year=&sector=&region=#results) AND <https://www.weforum.org/people/sarah-hanson-young>.

161 Page 5 of the Written Statement of John R. Christy The University of Alabama in Huntsville Subcommittee Energy and Power, U.S. House of Representatives 20 Sep 2012  
<https://web.archive.org/web/20121017062244/http://energycommerce.house.gov/sites/republicans.energycommerce.house.gov/files/Hearings/EP/20120920/HHRG-112-IF03-WState-ChristyJ-20120920.pdf>.  
NOTE: Again, I had to access this testimony on The WayBack Machine.

162 Ibid.

163 Ibid page 4.

164 <https://wattsupwiththat.com/2021/05/21/epa-disappears-the-1930s-drought-and-heat-wave-climate-data/>. In particular, the removal of the graph for the U.S. Annual Heat Wave Index, 1895–2015 which starkly highlights the extreme US heatwave of the 1930s. It can still be accessed on the WayBack Machine at <https://web.archive.org/web/20210510021215/https://www.epa.gov/climate-indicators/climate-change-indicators-high-and-low-temperatures> dated May 10<sup>th</sup>, 2021 but removed two days later on May 12<sup>th</sup>, 2021 at <https://web.archive.org/web/20210512192053/https://www.epa.gov/climate-indicators/climate-change-indicators-high-and-low-temperatures>.

165 To reiterate, last available around May 10<sup>th</sup>, 2021 – <https://web.archive.org/web/20210510021215/https://www.epa.gov/climate-indicators/climate-change-indicators-high-and-low-temperatures>.

166 <https://web.archive.org/web/20210510021215/https://www.epa.gov/climate-indicators/climate-change-indicators-high-and-low-temperatures>.

167 <https://web.archive.org/web/20210512192053/https://www.epa.gov/climate-indicators/climate-change-indicators-high-and-low-temperatures>

168 <https://www.nasa.gov/content/goddard/1934-had-worst-drought-of-last-thousand-years/>

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170 <sup>268</sup> Ibid page 4.

171 [https://co2coalition.org/2021/12/12/joe\\_biden-spins\\_tornado\\_misinformation/](https://co2coalition.org/2021/12/12/joe_biden-spins_tornado_misinformation/)

172 [https://co2coalition.org/2021/12/12/joe\\_biden-spins\\_tornado\\_misinformation/](https://co2coalition.org/2021/12/12/joe_biden-spins_tornado_misinformation/) AND the archived NOAA article at <https://web.archive.org/web/20170202021553/http://www.ncdc.noaa.gov:80/climate-information/extreme-events/us-tornado-climatology/trends> crawled on February 2<sup>nd</sup>, 2017. The article is not dated but appears to be written no earlier than 2011.

173 <https://www.ncei.noaa.gov/access/monitoring/monthly-report/tornadoes/202113>

174 [https://co2coalition.org/2021/12/12/joe\\_biden-spins\\_tornado\\_misinformation/](https://co2coalition.org/2021/12/12/joe_biden-spins_tornado_misinformation/) AND <https://web.archive.org/web/20170202021553/http://www.ncdc.noaa.gov:80/climate-information/extreme-events/us-tornado-climatology/trends>.

175 Ibid.

176 [https://co2coalition.org/2021/12/12/joe\\_biden-spins\\_tornado\\_misinformation/](https://co2coalition.org/2021/12/12/joe_biden-spins_tornado_misinformation/)

177 <https://www.ncei.noaa.gov/access/monitoring/monthly-report/tornadoes/202113> AND [https://co2coalition.org/2021/12/12/joe\\_biden-spins\\_tornado\\_misinformation/](https://co2coalition.org/2021/12/12/joe_biden-spins_tornado_misinformation/).

178 <https://www.ustornadoes.com/annual-tornadoes/>

179 [https://co2coalition.org/2021/12/12/joe\\_biden-spins\\_tornado\\_misinformation/](https://co2coalition.org/2021/12/12/joe_biden-spins_tornado_misinformation/)

180 Ibid and <https://www.ustornadoes.com/annual-tornadoes/>.

181 <https://www.ncei.noaa.gov/access/monitoring/monthly-report/tornadoes/202113> AND [https://co2coalition.org/2021/12/12/joe\\_biden-spins\\_tornado\\_misinformation/](https://co2coalition.org/2021/12/12/joe_biden-spins_tornado_misinformation/).

182 [https://co2coalition.org/2021/12/12/joe\\_biden-spins\\_tornado\\_misinformation/](https://co2coalition.org/2021/12/12/joe_biden-spins_tornado_misinformation/)

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<https://web.archive.org/web/20121017062244/http://energycommerce.house.gov/sites/republicans.energycommerce.house.gov/files/Hearings/EP/20120920/HHRG-112-IF03-Wstate-ChristyJ-20120920.pdf>.

184 <sup>275</sup> <https://rumble.com/vt62y6-covid-19-a-second-opinion.html> – Conference hosted by Wisconsin Republican Senator Ron Johnson COVID A Second Opinion Conference Washington DC Monday 24<sup>th</sup> January 2022. See also my BLOG at <https://vincebarwinski.com/2022/01/08/letter-to-annastacia-palaszczuk-premier-of-the-state-of-queensland-commonwealth-of-australia-monday-3rd-january-2022/#sdendnote109anc> in regard to hydroxychloroquine AND <https://vincebarwinski.com/2022/01/08/letter-to-annastacia-palaszczuk-premier-of-the-state-of-queensland-commonwealth-of-australia-monday-3rd-january-2022/#sdendnote93anc> in regard to ivermectin. Also <https://www.sciencedirect.com/science/article/pii/S2052297521000883>.

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