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4155 Bonanza Avenue

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Subject: **CHC2021 Save Our Boats**

Gentlemen,

California needs an appropriate balance among environmental, social, and economic priorities not **the California Air Resources Board’s (CARB)** **draconian engine emission regulation** of **Sportfishing boats that would require existing boats to be scrapped and multi-million-dollar new boats to be purchased, force doubling or tripling ticket prices, and make ocean access so costly that many current anglers won’t be able to afford it. CARB’s new policy is out of balance with social and economic priorities and is way out in left field when it comes to environmental priorities.**

I did not attend an elite university and am not a Climate Change scientist, but I did earn a Bachelor of Science degree from a California State College, am a California veteran, and am looking forward to enjoying deep sea fishing at an affordable price in retirement.

**CARB’s policy is predicated on an entirely bogus climate change narrative that humans are emitting too muchCO2 into the atmosphere which will cause our planet to be too hot for life. HELLO!...... earth’s climate has never stopped changing since it’s genesis.**

Patrick Moore’s book “Fake Invisible Catastrophes and Threats of Doom” Copyright 2021; references O proxies in marine sediments and cores drilled all over the planet including Antarctica, and the Artic and go back 100’s of millions of years; as scientific proof there is no strong cause-effect relationship between **CO2** and temperature over the long term history of the earth. Patrick Moore is a former president of Greenpeace with a PhD in Ecology. What follows I excerpted or paraphrased from Patrick Moore’s book.

The level of **CO2** in our atmosphere has been declining slowly and steadily for 150 million years, well before man began using fossil fuels. **CO2** went down from ~2000 to 2,500ppm (Parts per million) to 180ppm during the peak of the last recent glaciation, 20,000 years ago. 180ppm is the lowest it has been in at least 500 million years and is only 30ppm above the level where plants begin to die from **CO2** starvation. As our climate warmed out of the last glacial maximum during the 10,00 years it took to reach the warmer climate of the past 10,000 years, the warmer oceans gave off **CO2** emissions and eventually brought atmospheric **CO2** up to 280ppm around 1850. CO2 from burning fossil fuels began to become largely responsible for increasing **CO2** to the present level of 415ppm. At 415ppm **CO2** is still much lower than it had been during the majority of the Cambrian period when multi celled life first evolved ~150 million years ago. **CO2** was at ~6000ppm at the time, ~15 times higher than today.

Life on earth is at the end of a 50 million year period of global cooling but that doesn’t mean it’s ending. Antarctic glaciation began ~33 million years ago as the southern hemisphere cooled millions of years earlier than the northern hemisphere. Then there were 8 million years of slight warming followed by a leveling off for a period of ~10 million years and then a 12 million year plunge into the Pleistocene Ice Age which the planet is in. Until the Antarctica glaciation, the earth had been ice free more than 200 million years. Antarctica began to freeze over when the average global temperature was 11 degrees Fahrenheit warmer than it is today.

To suggest that todays 415ppm **CO2**level is somehow dangerous when all animal life including our mammalian ancestors, lived through millions of years when CO2 levels were at 2000 ppm and higher, is ridiculous. **CO2** levels in our atmosphere are still at one of the lowest levels it has ever sunk to during the past 510 million years.

Humanity’s burning of fossil fuels has inadvertently caused the decline in **CO2** to come to an end and has the promise to bringing **CO2** back to historical levels that are more beneficial to nearly all plants and therefore all life. Just because we didn’t intend **CO2**emissions increase, doesn’t mean we shouldn’t recognize and embrace one of the most positive developments in the history of the earth, the replenishment of the most important substance for all life on earth, after millions of years of decline when the Pleistocene Ice Age set in. Most climate alarmists want us to believe the Pleistocene Ice Age has ended and the earth will now heat up catastrophically. Per Patrick Morre, there is no justification for this fiction. We are still in the Pleistocene Ice Age and there is absolutely no telling when it will end. The proof the Pleistocene Ice Age has not ended is that both the Artic and Antarctic are covered in massive glaciers and sheets of frozen ocean. We are in one of many relatively short inter-glacials of the Pleistocene Ice Age yet we are living during record-low temperatures compared to earth’s history. Life has flourished better during warmer periods than the comparatively colder periods like we are in today. The last time the earth was as cold as it has been during the Pleistocene Ice Age was near the endo of the Karoo Ice Age ~ 260 million years ago. During the intervening period, with the exception of a minor cooling 145 million years ago, the earth has been in the Hothouse Ages, where there was no ice at the poles and the land at both poles was forested and warm. The Karoo Ice Age lasted ~100 million years from 360- 260 million years ago. There is no guarantee that the Pleistocene Ice Age will not last that long too. The future of Ice ages cannot be predicted: there’s no historical pattern.

The most recent glacial maximum in the Pleistocene stretched across the entire North American continent to south of the present border between the US and Canada. This ice sheet was ~ the same size as the Antarctic ice sheet today. During this glaciation, which peaked ~ 20,000 years ago, present day Boston was under 4,100 feet of ice and Montreal was under 10,560 feet of ice. The change in global climate from then to the beginning of this interglacial called the Holocene, makes our present situation a total non-event. The sea level rose 395 feet until all the low-elevation, mid latitude glaciers were melted about 7000 years ago. Since then sea level has oscillated a few feet up and down following the relative minor temperature fluctuations during the past 7000 years of the Holocene Intergalcial. The change from the glacial maximum to this interglacial is what real climate change looks like. What has occurred with the 2.2 F (Fahrenheit) rise in temperature since 1850 is simply part of the minor, and quite normal, ups and downs during the interglacial we are in now. There is no evidence the Pleistocene Ice Age has ended.

**Striving for a perfect stable climate, 360 days a year, forever; is a fools errand. With the slight rise in CO2 that has occurred, our planet is getting greener and there are 4 to 5 times more polar bears than 47 years ago, perhaps 31,000 or more.**

Please stop CARB’s job destroying bill that seeks unnecessary draconian regulation of Sport Fishing boat **CO2** emissions.

Regards,

Rey Yturralde