

Subject: **OUR SAW TOOTH CLIMATE**

To: The files

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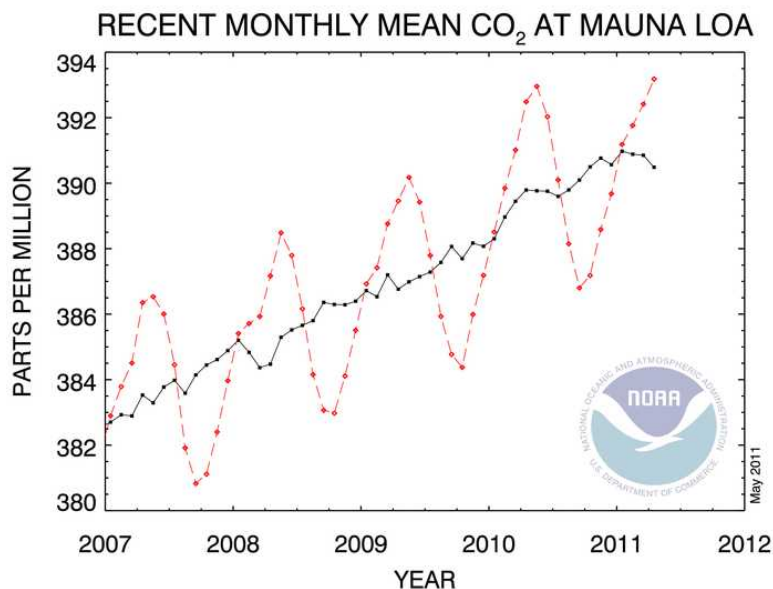
Date: 19 May, 2011

GENERAL COMMENT

CO₂ of course is a very heavy gas which finds its way to the sea surface as surely as water in a river, and I find no reason to deduce there could be a long period of time required to reach balance between atmospheric CO₂ and the ocean temperature.

NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION

The NOAA site <http://www.esrl.noaa.gov/gmd/ccgg/trends/index.html#global>



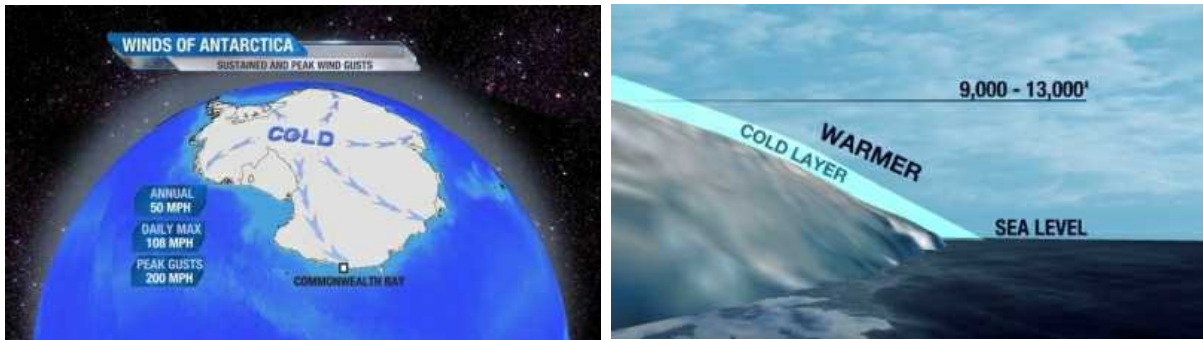
Shows a distinctly saw tooth pattern with a sudden drop coincident with the southern winter, followed by a gradual eight month increase again as summer returns south.

SOUTHERN OCEAN or LEAF FALL ?

Al Gore (and IPCC) proposed the saw tooth pattern was due to leaf fall followed by spring growth in the northern hemisphere. However, if we take note of what is happening down south, it is not hard to abandon this northern explanation.

As winter sets in to the Antarctic, katabatic winds develop by cold air falling off the high Antarctic plateau (2750+m) and accelerating down the sides with the air pressure and density rapidly increasing.

The wind roars out across the cooling southern oceans in a radial pattern presenting large quantities of CO₂ laden atmosphere to the cooling receptive ocean surface, refer:
http://www.weather.com/blog/weather/8_20620.html



High winds create large waves which stir the Southern Ocean down to depths of 450 m
<http://www.es.flinders.edu.au/~mattom/regoc/pdffiles/colour/single/06P-Antarctic.pdf>

Net effect of all this stirring is to mix a thick layer of atmospheric air with cold sea water resulting in the sudden drop shown in the Mauna Loa record.

This leaves us with the underlying up-trend in the Mauna Loa graph which is probably due to a gradual increase in the temperature of the main body of sea water, resulting in a concurrent rise in atmospheric concentration of CO₂ - as per Henry's Gas Law. It is not hard to conclude this is occurring given the heightened incidence of submarine tectonic and tsunami activity - all of which must manifest itself in heat added to the oceans. On top of this we have evidence of submarine volcanic activity along the mid Atlantic Ridge and around the rim of fire.

CONCLUSION

My main takeaway from all this is that humans have zero influence on the CO₂ atmospheric concentration and if there is some tenuous connection between CO₂ and climate - it is entirely a natural occurrence.