

# Global Warming – The Other Side of the Story

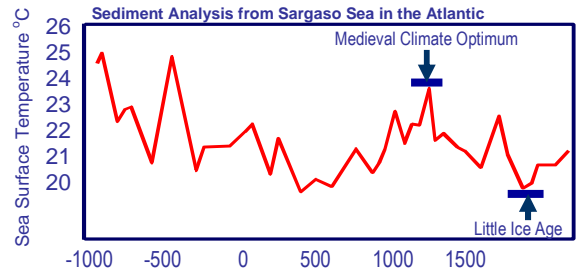
Sovereignty International, March 1, 2007

## Most Warming is Natural

While greenhouse gases can cause warming, it is unlikely that carbon dioxide (CO<sub>2</sub>) is the primary cause of the warming that has occurred over the past one-hundred years. Rather, it is part of a natural recovery from the “Little Ice Age” when it was about 1 1/2°C colder than it is today. (Figure 1)

Four times during the past 10,000 years the earth has been 2 to 3°C warmer than it is today. It has been up to 1°C warmer than it is today twenty-four times. Warming and cooling cycles have been part of earth’s natural history for thousands of years. The rate of warming today is not unusual either.

The science supporting anthropogenic global warming is seriously lacking or even non-existent. Evidence that man is responsible centers on climate models, which account for only half the variables known to affect climate and, despite assertions to the contrary, cannot even predict past climate changes accurately.

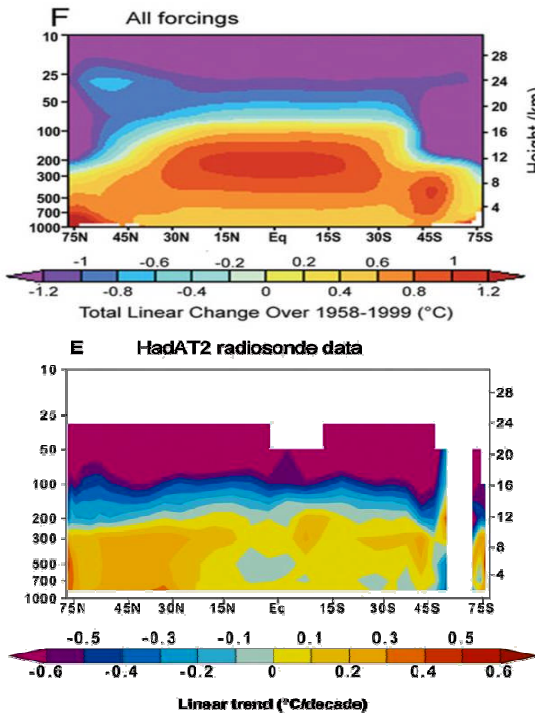


**Figure 1.** Earth’s temperature has been much warmer in the past. The most recent is the Medieval Climate Optimum peaking in 1200. We are now recovering from the Little Ice Age that peaked in the 1700s. This recovery is part of a natural cycle. Source: Kegwin, L.D. 1996 *Science* 274, 1504-1508

Additionally,

recent research has shown that the physics of greenhouse gas warming (primarily carbon dioxide) require the mid-troposphere (8 to 13 km elevation) at the equator to warm faster than the surface. The climate models all reflect this principle, as shown in Figure 2 (upper graph).

However, actual radiosonde measured data (Figure 2, lower graph) reveal that this is not what is happening in real life, strongly indicating the warming is not caused by greenhouse gases and that climate models greatly overestimate the future projected warming.

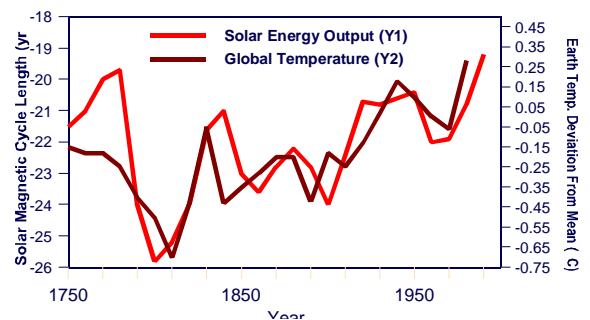


**Figure 2.** Upper: Climate model projection of temperature distribution. Bottom: Actual measured temperature distribution. Source: *International Journal of Climatology* of the Royal Meteorological Society [DOI: 10.1002/joc.1651]. December, 2007 <http://science-sepp.blogspot.com/>

## Is it the Sun?

Along with changing earth orbits, El Niños, volcanoes and other factors, the sun plays a big role in the warming and cooling of the earth. It well known that there is a high correlation between the length of the solar cycle as measured by sun spots and earth’s temperature. (Figure 3) According to one theory, this correlation exists because cosmic radiation from exploding supernovae of distant suns cause more low elevation clouds to form on earth. These clouds reflect incoming solar radiation back into space, preventing the sun’s energy from warming the earth. Cooling follows.

However, when the sun becomes active, the solar wind dampens the cosmic radiation entering the solar system and fewer low elevation clouds are formed. More solar energy reaches the earth’s surface and the earth warms. Scientists say that the increased solar activity in the last one-hundred years accounts for most of the warming. The sun has been much quieter during 2007-2008, which some say has caused the very cold winters in the southern and northern hemispheres.



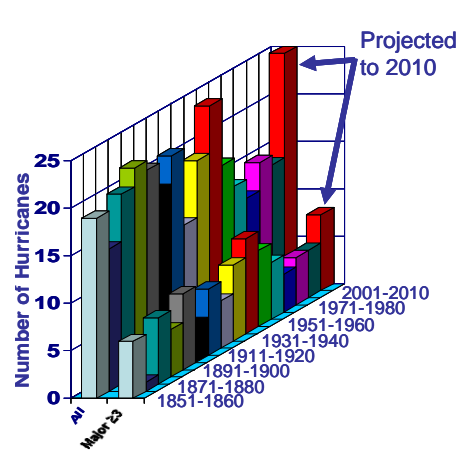
**Figure 3.** A high correlation exists between the solar magnetic cycle and earth’s temperature. Source: Baliunas, S. and Soon, W. (1995) *Solar Variability and Global Climatic Change Astrophysical Journal* 450, 896-901

## Warming? What Warming?

Although atmospheric carbon dioxide (CO<sub>2</sub>) levels have continued to increase, there has been no statistical increase in the earth's temperature for the past ten years. If CO<sub>2</sub> was the primary cause of earth's temperature, temperature should have continued to increase at a rate similar to the 1975-1998 period. It has not, creating serious doubt that CO<sub>2</sub> is responsible for the warming during the past one-hundred years. Ironically, 2008 is turning out to be one of the coldest years in decades. Some scientists believe the cold weather is caused by a complete lack of solar activity in solar cycle 24 that should have started during the summer of 2007.

## Hurricanes

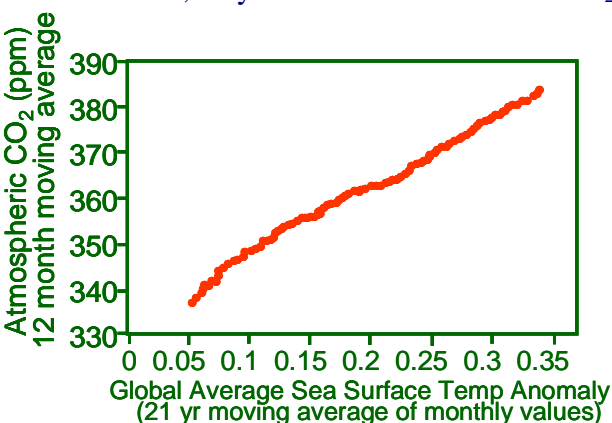
Although many have proclaimed that global warming will increase the number and intensity of hurricanes, most hurricane scientists do not believe there is a cause and effect relationship. Although 2005 was a devastating year for hurricanes, 2006 and 2007 had almost no hurricanes.



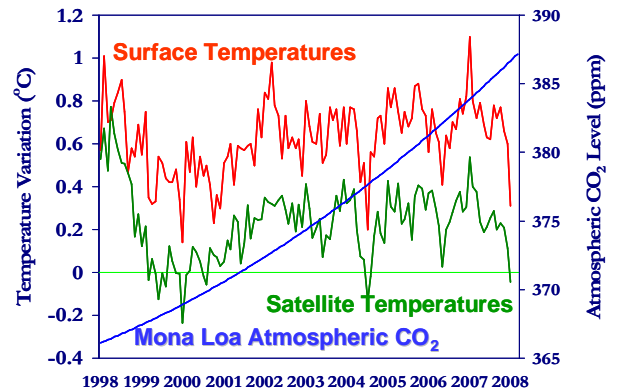
**Figure 5.** Number of hurricanes per decade striking the US. Source: NOAA, National Hurricane Center Tropical Prediction Center 2005 <http://www.nhc.noaa.gov/pastdec.shtml>

temperature causes CO<sub>2</sub> levels to either increase or decrease.

This is explained by the solubility of CO<sub>2</sub> in water. Carbon dioxide is less soluble in warm water than cold water. As ocean surfaces warm, they cannot hold as much CO<sub>2</sub> and CO<sub>2</sub> is released into the atmosphere, thereby causing an increase in atmospheric CO<sub>2</sub>. As oceans cool, they absorb CO<sub>2</sub> from the atmosphere, and atmospheric CO<sub>2</sub> declines.



**Figure 7.** Atmospheric CO<sub>2</sub> is highly dependent on sea surface temperature. Source: Dr. Lance Endersbee, 20 Feb. 2008. Adapted from *NCGT Newsletter*, no. 42, p. 3-17, 2007

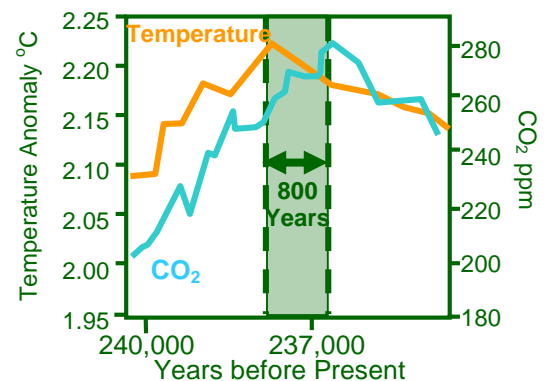


**Figure 4.** Both surface and satellite measured temperatures have not increased statistically for ten years, while atmospheric CO<sub>2</sub> continues to increase. Source: Ground data, GISS Surface Temperature Analysis <http://data.giss.nasa.gov/gistemp/tabledata/GLB.Ts.txt> Satellite, The National Space & Science Technology Center. [http://vortex.nsstc.uah.edu/data/msu/t2lt/tltglhmmam\\_5.2](http://vortex.nsstc.uah.edu/data/msu/t2lt/tltglhmmam_5.2)

Although 2005 was a devastating year for hurricanes, 2006 and 2007 had almost no hurricanes. When the balance of the 2000 to 2010 decade is projected, there will be no more hurricanes than in the than that of the 1941 to 1950 period. Ironically, the worst period for hurricanes striking the United States occurred in the 1851 to 1950 period when an average of 19.2 total; and 6.1 major hurricanes per decade occurred. The average number of hurricanes per decade plummeted to 13.7 and 5.0 respectively during the 1951 to 2000 period. Are we merely returning to pre-1950 levels?

## CO<sub>2</sub> Does Cause Temperature to Change Historically

450,000 years of ice core data show that atmospheric carbon dioxide (CO<sub>2</sub>) levels and earth's temperature are strongly correlated. Figure 6 shows that temperature change usually precedes a change in CO<sub>2</sub>, indicating that something in earth's



**Figure 6.** When ice core data is analyzed, CO<sub>2</sub> levels almost always follow earth's temperature. Source: Caillon, N., Severinghaus, J.P., Jouzel, J., Barnola, J.-M., Kang, J. and Lipenkov, V.Y. 2003. Timing of atmospheric CO<sub>2</sub> and Antarctic temperature changes across Termination III. *Science* 299: 1728-1731

and atmospheric CO<sub>2</sub> declines. Considerable research shows that the increase in CO<sub>2</sub> in earth's atmosphere is from man burning fossil fuels. Even so, there should be far more CO<sub>2</sub> in the atmosphere than is actually measured. Where does the "extra" go? Although there is disagreement, many if not most, scientists believe it is absorbed by the ocean because CO<sub>2</sub> is highly soluble in water,

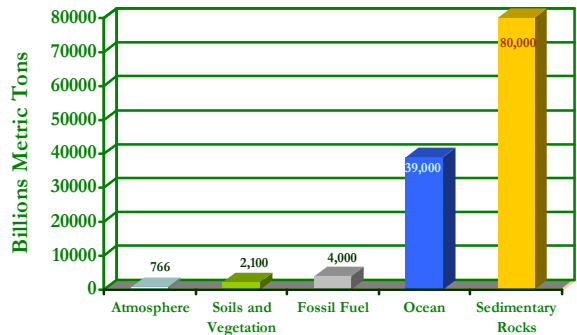
depending on the water's temperature.

Recent research (Figure 7) shows a very strong dependence of atmospheric CO<sub>2</sub> to sea surface temperature since 1980, indicating that much, if not most of the increased CO<sub>2</sub> can be explained by warming oceans. If so, then most anthropogenic CO<sub>2</sub> is absorbed by the oceans and earth's temperature, not mankind, controls atmospheric CO<sub>2</sub>.

### Carbon Dioxide

Carbon dioxide (CO<sub>2</sub>) is one of the most important gases in our atmosphere. Without it, life cannot exist. It provides the basic building block for plants to produce food for their own use, and indirectly for all animals and humans.

The very high levels of carbon found in sedimentary rocks compared to the atmosphere shows at one time there was far more CO<sub>2</sub> in the atmosphere and oceans than presently exists –10 times as much! Because plants evolved when earth's atmosphere was rich in CO<sub>2</sub>, plants are CO<sub>2</sub>-starved today. Table 1 shows that the more CO<sub>2</sub>, the better plants grow and the higher the yield of crops – by up to almost 50 percent. High CO<sub>2</sub> levels are good for people and the environment!



The huge amount of carbon sequestration in sedimentary rocks indicates there was much higher atmospheric levels of CO<sub>2</sub> at one time. Source: Source: The Carbon Cycle. Encyclopedia of Earth. [http://www.eoearth.org/article/Carbon\\_cycle](http://www.eoearth.org/article/Carbon_cycle)

**Table 1.** Crop Yields If Atmospheric Carbon Dioxide Doubled

Crop	% Increase	Crop	% Increase
<b>C3 Cereals</b>		<b>Roots &amp; Tubers</b>	
Barley	66	Carrots	60
Rapeseed	62	Onions	28
Rice	37	Potatoes	35
Sunflower	36	Sugar Beets	33
Wheat	48	Sweet Potatoes	46
<b>Average</b>	<b>48.5</b>	<b>Average</b>	<b>40.4</b>
<b>C4 Cereals</b>		<b>Vegetables</b>	
Maize	22	Cabbage	27
Sorghum	18	Cauliflower	34
<b>Average</b>	<b>20</b>	Green Peppers	25
<b>Legumes</b>		Cucumbers	39
<b>Average</b>	<b>44.3</b>	Lettuce	40
		<b>Average</b>	<b>33.0</b>

Source: Craig and Keith Idso. "Forecasting World Food Supplies: The Impact of the Rising Atmospheric CO<sub>2</sub> Concentration," Center for the Study of Carbon Dioxide and Global Change, Tempe, Arizona, p. 41. Published in *Technology* 7S:41, 2000.

### Global Warming or Global Governance?

During the sixth Conference of the Parties for the Framework Convention on Climate Change held at the Hague in 2000, French president Jacques Chirac told the delegates that "For the first time, humanity is instituting a genuine instrument of global governance...to organise our collective sovereignty over this planet." The question that must be asked by all mankind is whether there is sufficient evidence that man is causing catastrophic harm to earth that we must collectivize our sovereignty to an unaccountable global

bureaucracy at a huge financial cost. We at Sovereignty International believe the answer is no!

Whether it is the Kyoto Protocol or Senate Bill S. 2191, up to 3.5 million jobs would be lost, cost the average family \$800-\$1,300 a year, more than double electrical and possibly gasoline costs, and much more – all while benefiting a few at the expense of many. That is not good governance.

Produced by **Sovereignty International**. Sovereignty International exists to promote the belief that the *best* government is empowered *only* by the consent of those who are governed. The consent of those who are governed can only be expressed by free and open elections of officials who are *exclusively* responsible for enacting public policy. We believe this bedrock principle of government and societal organization is essential to the maintenance of the foundational principles of individual freedom, inalienable private property rights, free markets and national sovereignty.

We believe that policy formulation should be based on the best and most balanced science and information available to the people and policy makers before policy is formulated. When this is lacking, Sovereignty International is committed, within available resources, to making that science and information available to the people and policy makers in an understandable manner; free of political agendas. This is especially important when the science is unclear or the information largely unknown.

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