

No Evidence to Support Carbon Dioxide Causing Global Warming!

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Introduction

In the early nineties, some scientists were saying that carbon dioxide (CO₂) emissions were causing global warming. This was disturbing to the author; a chemical engineer who has worked on coal conversion processes his whole life. Before it was investigated as to whether or not this was really true, the author developed a scheme to remove CO₂ from power plant flue gas by bubbling it through a pond of water to form algae, then skimming it off, drying it and feeding it back to the power plant as a fuel to be blended with the coal. This would do two things, reduce the overall CO₂ emissions to the atmosphere, and conserve our coal reserves. After investigating CO₂ as a cause of global warming, it appeared at that time to be false.

In the late 1990's it was brought up again and in 2001, the Intergovernmental Panel on Climate Change (IPCC) announced that CO₂ was causing the earth to warm and developed computer models to predict how much the earth would warm in the future. In 2006-2007, the author evaluated this again in depth and found the premise was clearly false. IPCC scientists did not relay that, during the time from the mid 1960's to 1998, the stratosphere cooled almost three times as much as the earth warmed. From this input, the author could prove that CFC destruction of ozone, not CO₂, was the cause of the abnormal warming over that period. He wrote a paper on his CFC destruction of ozone findings. However, putting this aside, does any evidence exist to support the premise that increased concentrations of CO₂ in the atmosphere have caused the earth to warm?

Do Scientists Support Global Warming?

First, most scientists do not agree with the CO₂ global warming premise! In the United States 31,478 scientists, including the author, have signed a petition rejecting the Kyoto global warming agreement (see Figure 1) and of these, 9,029 have PhDs, including Dr. Edward Teller.

Petition

We urge the United States government to reject the global warming agreement that was written in Kyoto, Japan in December, 1997, and any other similar proposals. The proposed limits on greenhouse gases would harm the environment, hinder the advance of science and technology, and damage the health and welfare of mankind.

There is no convincing scientific evidence that human release of carbon dioxide, methane, or other greenhouse gases is causing or will, in the foreseeable future, cause catastrophic heating of the Earth's atmosphere and disruption of the Earth's climate. Moreover, there is substantial scientific evidence that increases in atmospheric carbon dioxide produce many beneficial effects upon the natural plant and animal environments of the Earth.

Edward Teller
Please sign here

Please send more petition cards for me to distribute.

My academic degree is B.S. M.S. Ph.D. in the field of PHYSICS

Figure 1. Rejection of Kyoto Global Warming Agreement ¹.

In addition, U.S. Senator James Inhofe² (R-Okla.), Ranking Member of the Senate Environment and Public Works Committee, recently delivered a global warming speech entitled: "Global Warming Consensus in Freefall: More Than 650 International Scientists Dissent Over Man-Made Global Warming Claims." Inhofe also detailed the growing number of left of center scientists and environmental activists who are speaking out to reject man-made climate fears.

Dr. Richard Lindzen, MIT Professor of Atmospheric Science and past UN IPCC contributor, explained that only a few scientists were involved in writing the IPCC 2001 Third Assessment Report 3. Although purported to speak for thousands of scientists, it was not thousands offering their consensus. Dr. Lindzen participated in that and said, "Each person who was an author wrote one or two pages in conjunction with someone else. They traveled around the world several times a year for several years to write it, and the summary for policymakers had the input of about 13 of the scientists. Ultimately, it was written by representatives of governments, of environmental organizations like the Union of Concerned Scientists, and industrial organizations, each seeking their own benefit."

Gore's "Inconvenient Truth" Documentary has Cause and Effect Reversed

In the documentary "Inconvenient Truth", Al Gore conveniently separated the Vostok Ice core temperature and CO₂ graphs so you could not see which came first, a warming spike or a CO₂ spike. He said that a CO₂ spike came first but alas, it was the just the opposite! When the graphs are combined, it is clearly seen that a global warming spike always comes first (blue line). This warms the oceans, which reduces the solubility of CO₂ in water and results in the liberation of CO₂ from the oceans. He also gave no explanation what would cause a CO₂ spike to occur in the first place. What is so disturbing is that climatologists, like Al Gore, seem to have a problem discerning cause and effect. It is very simple and does not require a rocket scientist. If what you call an effect comes first, you have it backwards; the cause comes first to produce the effect.

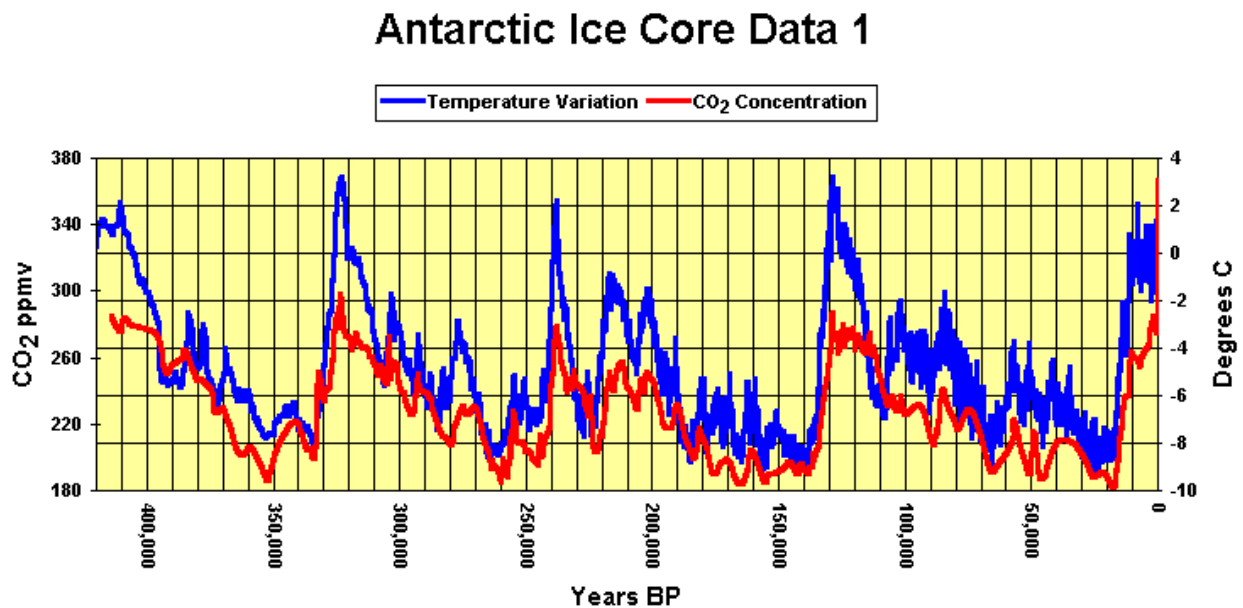


Figure 2. Vostok, Antarctica Ice Core Data⁴.

Does Atmospheric CO₂ Change Correlate with Earth Temperature Change?

Does a correlation exist between the concentration of CO₂ in the atmosphere and the earth's temperature? No, that does not exist. Does an increase in CO₂ cause the earth's temperature to increase? No, look at Figure 3 below developed by Joseph D'Aleo, certified meteorologist. Even a non-scientist can see there is absolutely no correlation between CO₂ concentration in the atmosphere and the earth's temperature. If there were a correlation, they both would rise and fall together. The CO₂ has been on a continuous upward trend - not true for the earth's temperature.

The atmospheric concentrations of CO₂ were taken at the Mauna Loa Observatory in Hawaii. Two sets of temperature measurements are shown, one set by NASA's Microwave Sounding Unit (MSU) for the troposphere and the other by the UK's Hadley Climate Research Unit for the land and sea. Both show declining temperatures over time even as CO₂ has increased from 366 ppmv in January 1998 to 385 ppmv by January 2008. Note that the earth surface temperature (pink line) in January 2008 was some 0.48 °C cooler than it was in January 2003.

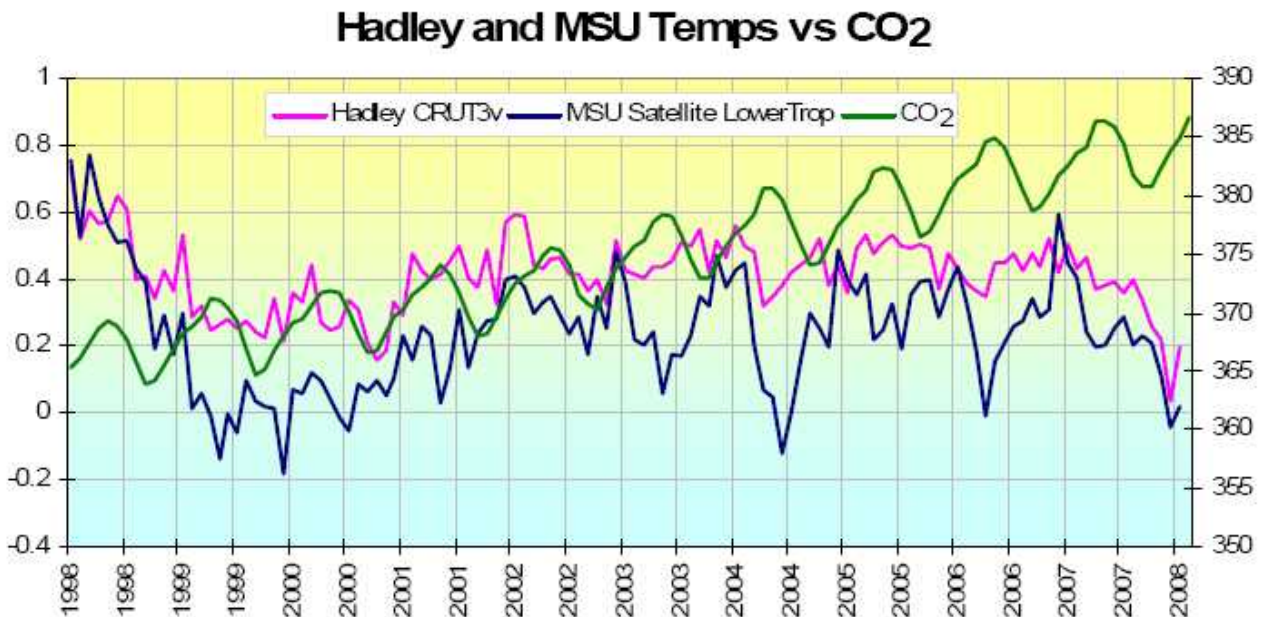


Figure 3. Earth Temperature and Atmospheric CO₂ Concentration⁵.

Global warming advocates also say that CO₂ builds up in the atmosphere over a 50 to 250 year period, but this cannot be true either. Figure 3 above shows that the CO₂ concentration oscillates based on the growing season in the Northern Hemisphere. The ratio of land to ocean in the Northern Hemisphere is about 1 to 1.5 and in the Southern Hemisphere is 1 to 4. Therefore, the Northern Hemisphere with much more land mass has a growing season that dominates the Southern Hemisphere growing season with respect to absorption of CO₂.

As shown in Figure 3 above, each year around April, increased CO₂ absorption by plants in the Northern Hemisphere starts reducing the CO₂ in the atmosphere and the reduction continues until around mid to late August when plants start to go dormant. The cycles occur on a regular yearly basis and the swing in CO₂ concentration is in the 5 to 8 ppmv range. If CO₂ stayed in

the atmosphere for long periods before being consumed, the season to season cyclic effect would not be seen. It is clear that nature reacts very fast in its consumption of carbon dioxide.

The graph in Figure 4 shows the IPCC computer modeling projections from the year 2000 to 2100 based on various assumptions of increasing CO₂ in the atmosphere. The black line from 1998 to 2008 was added by the author to the IPCC graph; it shows the actual measured surface temperatures.

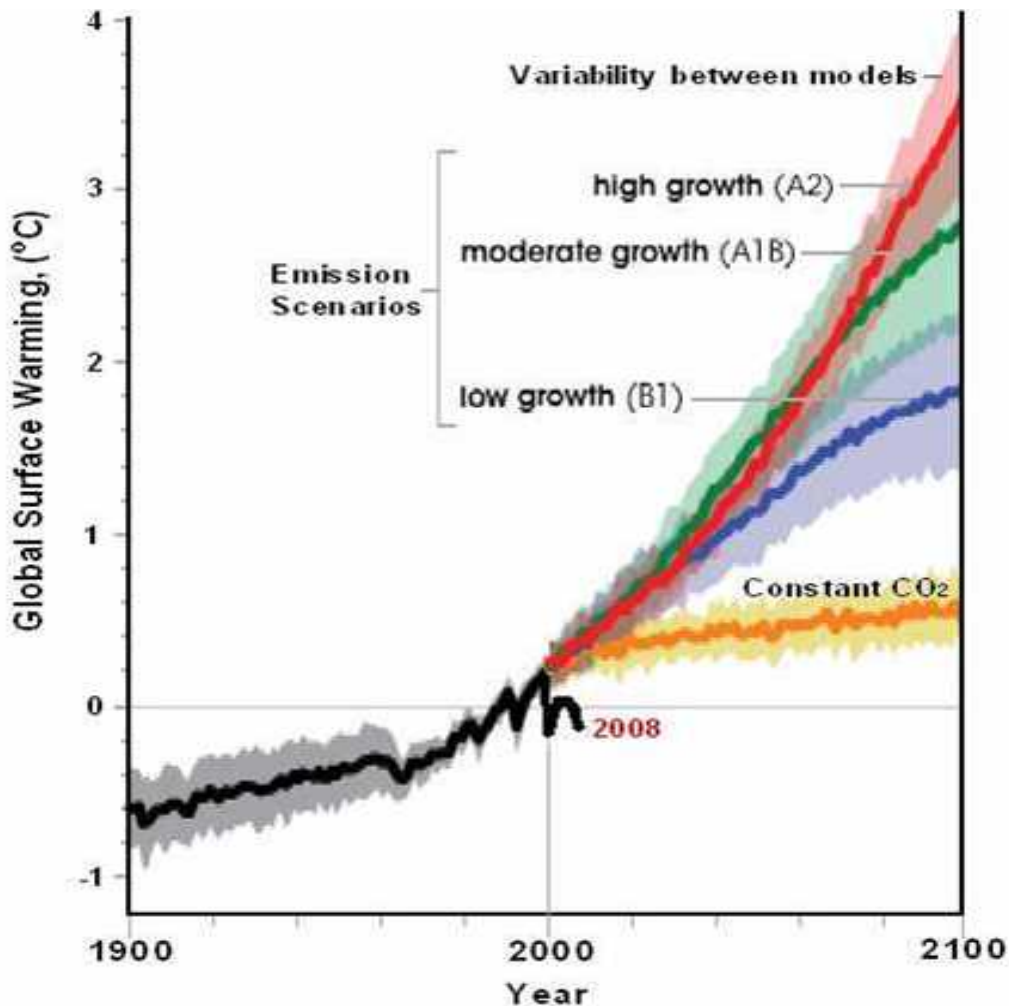


Figure 4. IPCC Predictions compared to Actual Surface Temperature Measurements⁶.

The actual temperature for 2008 was some 0.43 °C cooler than the IPCC projection based on the assumption that atmospheric CO₂ concentration remained constant with time. On an actual temperature basis, one sees that the IPCC models predict temperatures that are not even close to actual measurements. The temperature in 2008 was the same as in 1982. To this old chemical engineer, the predictions represent the classic "garbage in - garbage out" analysis for computer models. It reminds me of the computer models used to predict where Hurricane Ike would hit the U. S. in 2008. Five meteorological models all predicted the hurricane would hit the west coast of Florida, then changed it to New Orleans, then to Galveston, down to Corpus Christy and then back up to Galveston, where it finally hit, all of this over a five day period. Here again, meteorological models are not trustworthy.

Human Made Emissions of Carbon Dioxide (CO₂)

Do you realize that CO₂ emissions created by man's activities, combustion of fuels, etc. (called Anthropogenic emissions) is miniscule compared to the emissions of CO₂ from nature? Table 1 was developed by the IPCC. It shows annual CO₂ emissions to the atmosphere from both nature and man and how much of the CO₂ emitted is re-absorbed by nature.

TABLE 1. GLOBAL SOURCES AND ABSORPTION OF CO₂

Carbon Dioxide:	<u>Natural</u>	<u>Human Made</u>	<u>Total</u>	<u>Absorption</u>
Annual Million Metric Tons	770,000	23,100	793,100	781,400
% of Total	97.1%	2.9%	100%	98.5%

Source: Intergovernmental Panel on Climate Change, Climate Change 2001: The Scientific Basis (Cambridge, UK Cambridge University Press, 2001), Figure 3.1, p. 188.

Using the table above in combination with a total concentration of 385 ppmv of CO₂ seen in the atmosphere in January 2008, one sees that the increase in CO₂ caused by all of man's activities amounted to only 11.5 ppmv. The amount of CO₂ from man is a mouse milk quantity compared to nature's emissions. If we eliminated all anthropogenic CO₂ emissions, we would go back to the level we had in 2001-2002 when it was warmer than it is now.

Nature absorbs 98.5% of the CO₂ that is emitted by nature and man. As CO₂ increases in the atmosphere, nature's controlling mechanism causes plant growth to increase via photosynthesis; CO₂ is absorbed, and oxygen is liberated. Photosynthesis is an endothermic (cooling) reaction. Further, a doubling of CO₂ will increase the photosynthesis rate by 30 to 100%, depending on other environmental conditions such as temperature and available moisture 7. More CO₂ is absorbed by the plants due to the increased concentration of CO₂ in the atmosphere available for conversion to carbohydrates. Nature therefore has in place a built-in mechanism to regulate the CO₂ concentration in the atmosphere that will always completely dwarf man's feeble attempts to regulate it. Further, no regulation by man is necessary because CO₂ is not a pollutant; it is part of the animal-plant life cycle. Without it, life would not exist on earth. Increased CO₂ in the atmosphere increases plant growth, which is a very good thing during a period of world population growth and an increasing demand for food.

No Greenhouse Signature in Atmosphere

There are several possible causes of global warming, and each warms the atmosphere at different latitudes and altitudes. Each cause will produce a distinct pattern of hot spots in the atmosphere and will leave its "signature". The greenhouse signature is very distinct - see Figure 5. If this signature were present, warming would be concentrated in a distinct "hot spot" about 8 to 12 km up over the tropics, with less warming further away, turning to cooling above 18 km. Actual measurements have been taken where the warming is occurring using satellites and balloons.

The observed signature is shown in Figure 6. As one can clearly see, the actual signature is nothing like the predicted IPCC "Greenhouse" signature. The greenhouse signature is not seen - no "hot spot" exists! Although not shown here, the actual signature is most like the one the IPCC developed for ozone depletion.

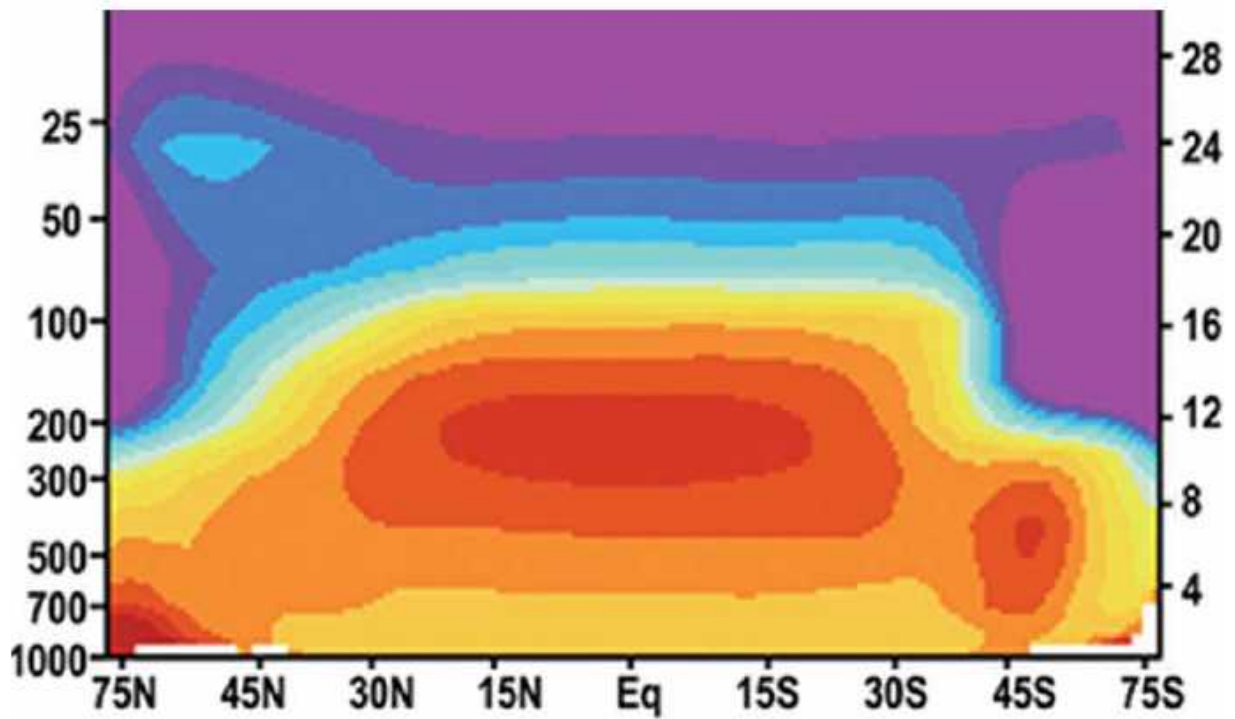


Figure 5. Theoretical Greenhouse Signature (UN climate models)⁸.

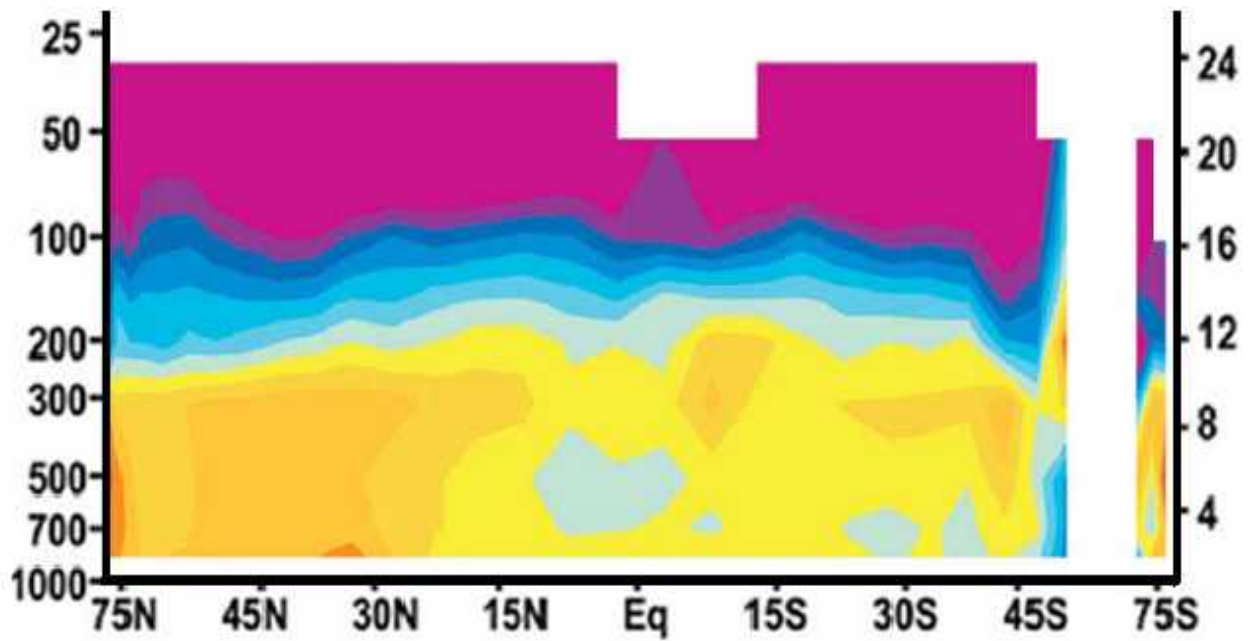


Figure 6. Actual Observed Signature⁹.

IPCC Greenhouse Effect is Impossible

The IPCC (Figure 7) analysis shows 390 watts/m² being radiated from the earth (right side of graph) to the atmosphere, excluding thermals and water evaporation from plant leaves (evapo-transpiration) for simplicity, when only 168 watts/m² is absorbed by the earth (left side of graph) in the first place. This graphic violates the first and second laws of thermodynamics, which in essence state that you cannot get more energy out of a system than you put into that system.

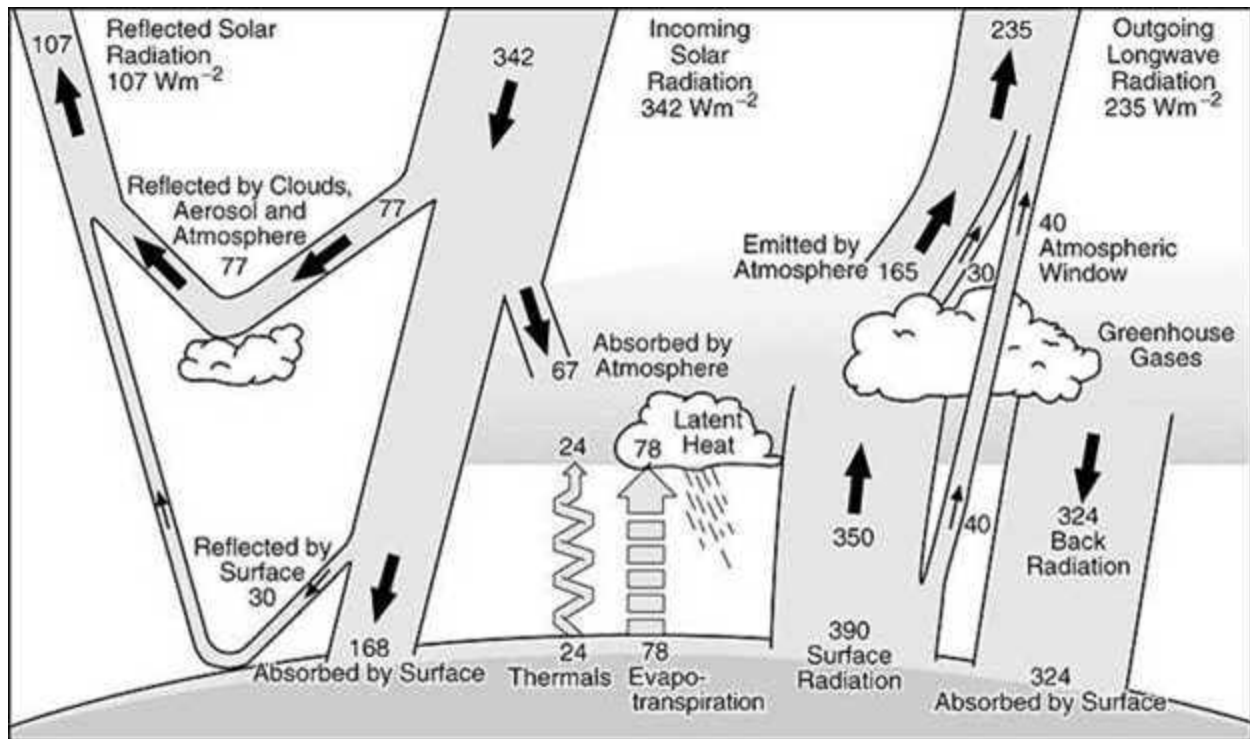


Figure 7. IPCC Greenhouse Effect¹⁰.

If what the IPCC is presenting were true, for every unit of energy in, one would get back $(390/168) = 2.32$ units of energy. The U.S. Patent Office never awards a patent for a process that claims it gets more energy out than it puts in because thermodynamically it is quite impossible. Strangely, the IPCC promotes such nonsense to the people of the world and is not soundly rebuked for it!

A friend of mine, an analytical chemist¹¹, correctly writes, "As a further rebuttal of the influence of carbon dioxide over the climate, the alleged IPCC greenhouse effect is a non-existent effect. No greenhouse, whether made from glass, plastic, cardboard or steel will reach a higher inside temperature due to the magic of re-radiated IR energy. If it did, engineers would have long ago been able to design power stations made from air, mirrors and glass, extracting more energy out of it than was put into it - if only!"

Carbon Tax Effect on the Average American

Taxing carbon would do absolutely nothing to improve the climate but would be a devastating economic hardship to the people in the world. Following is a summary of the U.S. carbon tax legislation 12 proposed by Michigan Representative John Dingell:

Tax on carbon content:

\$50 / ton of carbon (phased in over 5 years and then adjusted for inflation)

Let us complete a ballpark analysis of the impact of a carbon tax on the cost of electricity. In the United States, 50% of our electricity comes from coal- fired power plants. According to the U.S. Energy Information Agency (EIA), the average open- market selling price in 2007 was \$40.80/ton for bituminous coal (12,500 Btu/lb and 70- wt% carbon). Therefore, the tax on bituminous coal would be around \$35/ton (~86% of its open market selling price).

The average selling price of electricity to residential users in 2007 was \$0.1061/kWhr. Assuming a heat rate of 10,000 Btu/kWhr of electricity generated for bituminous coal, the carbon tax would add \$0.014/kWhr of electricity, a 13% increase.

Tax on gasoline:

\$0.50/gallon of gasoline, jet fuel, kerosene (petroleum based), added to current gasoline tax phased in over 5 years and adjusted for inflation. This \$0.50/gallon gas tax is in addition to what is derived from the per ton carbon tax in the previous section.

Consider gasoline contains 86-wt % carbon and weighs 6.5 lb/gal. Dingell's carbon tax would add \$43/ton of gasoline or \$0.14/gallon. When added to the \$0.50/gal tax will equate to \$0.64/gal. Based on an initial gasoline selling price of \$2.00/gallon with the added carbon taxes, the price would increase to \$2.64/gal, a 32% increase.

Conclusion

Based on actual data, CO₂ causing global warming is clearly a figment of the IPCC's imagination. The lesson to the world here is, when it comes to science, never blindly accept an explanation from a politician or scientists who have turned political for their own private gain. Taxing carbon will have absolutely no beneficial effect on our climate, will hurt the economies of the world, and will be harmful to the production of food because less carbon dioxide means reduced plant growth. Many scientists, including the author, see global warming from CO₂ as a cruel global swindle, so that a few, at the expense of the many, can reap huge profits from carbon taxes.

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