

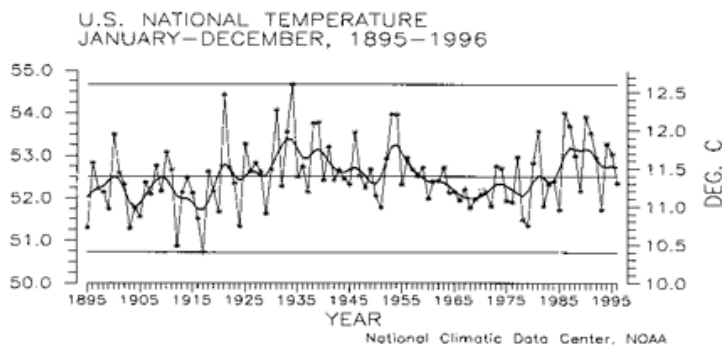
Jack Venrick

From: "Jack Venrick" <jacksranch@skynetbb.com>
Sent: Thursday, August 09, 2007 3:51 PM
Attach: Is Global Warming Real.eml; Global Warming - A Chilling Perspective.eml
Subject: Carbon Dioxide Caused By Humans = .00117 Of Total Green House Gases

To: WA House & Senate, Association of Washington Cities, Property Owners, Freedom Groups, Media, WEC, NDRC, Friends

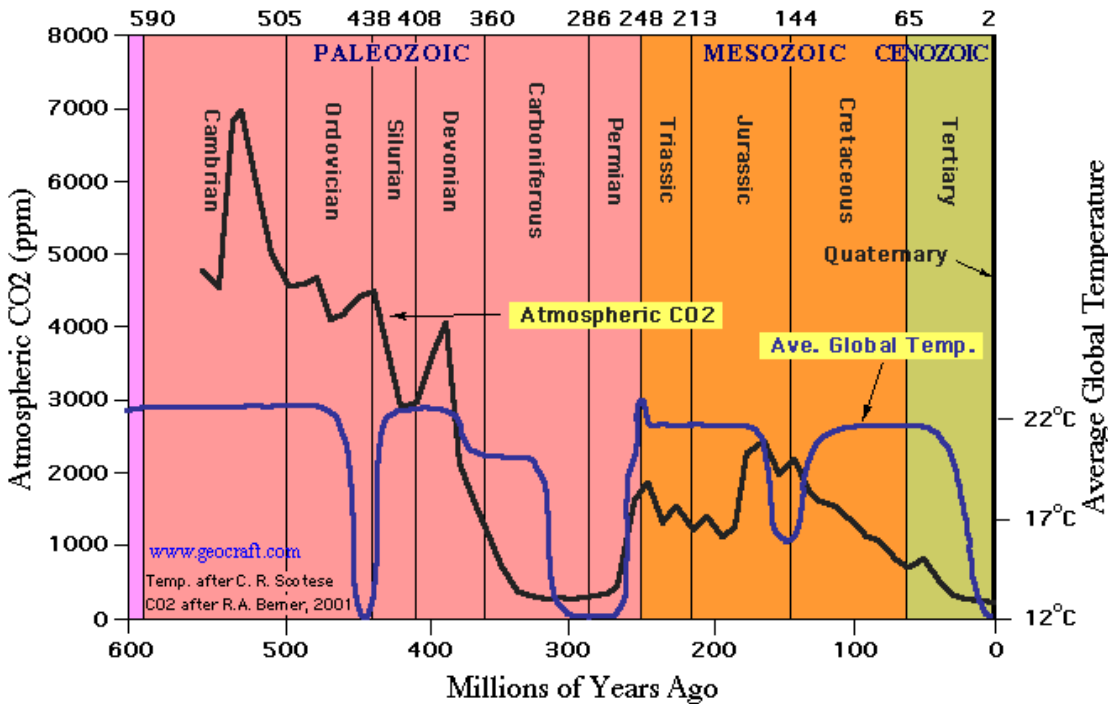
This is one of the best web sites I have seen in years overviewing global climate change history. The authors of this site have laid out all the facts from credentialed experts that supporting every source of independent and credible research I have had time to read over the last couple years on this subject. If this does not nail the lid down on the coffin of man caused global warming, nothing will.

- Did you know "The world's **natural wetlands** produce more greenhouse gas contributions annually than all human sources combined."
 - Yet government will put a property owner in jail for 60 days and frame him for digging a ditch on his own property.
 - The County green government + District court + Superior court will collude to ensure he receives the "proper" green extreme sentence.
- Some people well tell you its getting hotter but not tell you the temperature has been relatively stable from 100 years, e.g. 1895 to 1995.
 - Yet green government will fund billions to nationalize and socialize humans, animals and fowl to defraud the American public into more big taking government.



- Some people will tell you its getting hotter but not tell us we are also in a major cooling geologic epoch.

- o Yet the UN, media, government & greens will ignore the big picture and hype the little picture for more money and power



- You might be surprised how we all have been brain washed by the media, greens and government government.
 - o Take this quick quiz and be amazed what you learn.
 - o <http://www.geocraft.com/WVFossils/GlobWarmTest/start.html>
- A couple of the better articles are attached above from this site just in case they disappear some day.
 - o <http://www.geocraft.com/WVFossils/Articles1.html>
- Some people will tell you man caused carbon dioxide gas is very bad but not tell you CO₂ is only .117% or .00117 of the total green house gases.
- Some people will lie, cheat and steal to take your private property including your wages, taxes on your private property, your land, your home, your vehicle, your election system/votes, your border, border, your weapons, your family, your educational system, your families farm or ranch, your families estate, your natural rights, your constitutional rights, your due process, your common law,

law, your once gold and silver based currency, your government's ability to print and pay without without interest to the central bankers, your right to worship even in public places, ad infinitum.

Jack Venrick
 Connecting More Dots of Taking Every Day
 Carbon Dioxide Caused By Humans = .00117
 Of Total Green House Gases Including Water Vapor
 Enumclaw, WA

http://mysite.verizon.net/mhieb/WVFossils/greenhouse_data.html



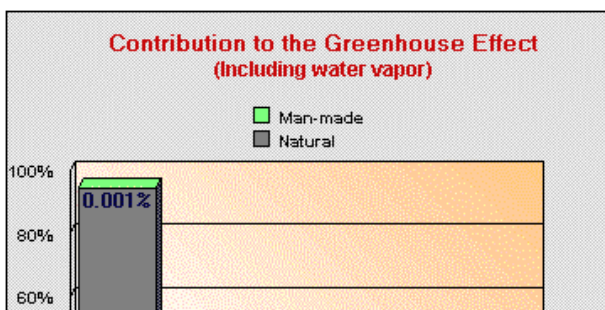
[|| Global Warming || Table of Contents ||](#)

Water Vapor Rules the Greenhouse System

Just how much of the "Greenhouse Effect" is caused by human activity?

It is about **0.28%**, if **water vapor** is taken into account-- about **5.53%**, if not.

This point is so crucial to the debate over global warming that how **water vapor is** or **isn't** factored into an analysis of Earth's greenhouse gases makes the difference between describing a **significant** human contribution to the greenhouse effect, or a **negligible** one.



Water vapor constitutes Earth's most significant **greenhouse gas**, accounting for about **95% of Earth's greenhouse effect (4)**. Interestingly, many "facts and figures" regarding global warming completely ignore the powerful effects of water vapor in the greenhouse system, carelessly (perhaps, deliberately) overstating human impacts as much as 20-fold.

Water vapor is **99.999% of natural origin**. Other atmospheric greenhouse gases, **carbon dioxide (CO₂)**, **methane (CH₄)**, **nitrous oxide (N₂O)**, and **miscellaneous other gases (CFC's, etc.)**, are also mostly of natural origin (except for the latter, which is mostly anthropogenic).

Human activities contribute slightly to greenhouse gas concentrations through **farming, manufacturing, power generation, and transportation**. However, these emissions are so dwarfed in comparison to emissions from natural sources we can do nothing about, that even the most costly efforts to limit human emissions would have a very small-- perhaps undetectable-- effect on global climate.

For those interested in more details a series of **data sets** and **charts** have been assembled below in a 5-step statistical synopsis.

Note that the first two steps ignore **water vapor**.

- 1. Greenhouse gas concentrations
- 2. Converting concentrations to contribution
- 3. Factoring in water vapor
- 4. Distinguishing natural vs man-made greenhouse gases
- 5. Putting it all together

Note: Calculations are expressed to 3 significant digits to reduce rounding errors, not necessarily to indicate statistical precision of the data. All charts were plotted using Lotus 1-2-3.

Caveat: This analysis is intended to provide a simplified comparison of the various man-made and natural greenhouse gases on an equal basis with each other. It does not take into account all of the complicated interactions between atmosphere, ocean, and terrestrial systems, a feat which can only be accomplished by better computer models than are currently in use.

Greenhouse Gas Concentrations:

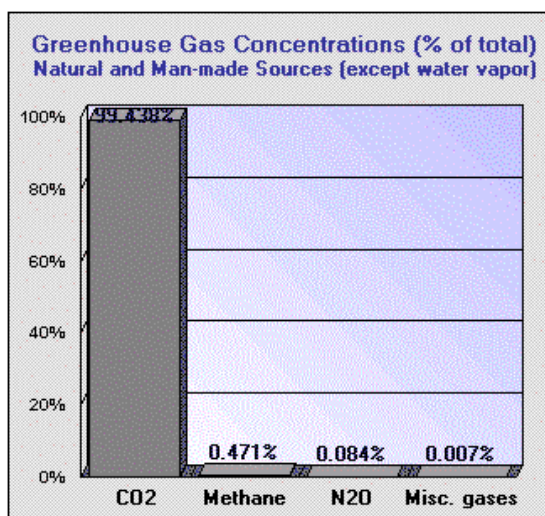
Natural vs man-made (anthropogenic)

1. The following table was constructed from data published by the U.S. Department of Energy (1) and other sources, summarizing concentrations of the various atmospheric greenhouse gases. Because some of the concentrations are very small the numbers are stated in parts *per billion*. **DOE chose to NOT show water vapor as a greenhouse gas!**

TABLE 1.

The Important Greenhouse Gases (except water vapor)
U.S. Department of Energy, (October, 2000) (1)

(all concentrations expressed in parts per billion)	Pre-industrial baseline	Natural additions	Man-made additions	Total (ppb) Concentration	Percent of Total
Carbon Dioxide (CO ₂)	288,000	68,520	11,880	368,400	99.438%
Methane (CH ₄)	848	577	320	1,745	0.471%
Nitrous Oxide (N ₂ O)	285	12	15	312	0.084%
Misc. gases (CFC's, etc.)	25	0	2	27	0.007%
Total	289,158	69,109	12,217	370,484	100.00%



The chart at left summarizes the % of **greenhouse gas concentrations** in Earth's atmosphere from **Table 1**. This is not a very meaningful view though because 1) the data has not been corrected for the actual **Global Warming Potential (GWP)** of each gas, and 2) **water vapor** is ignored.

But these are the numbers one would use if the goal is to exaggerate human greenhouse contributions:

📍 Man-made and natural **carbon dioxide (CO₂)** comprises **99.44%** of all greenhouse gas **concentrations** (368,400 / 370,484)--(ignoring **water vapor**).

Also, from **Table 1** (but not shown on graph):

📍 **Anthropogenic** (man-made) **CO₂** additions comprise (11,880 / 370,484) or **3.207%** of all greenhouse gas **concentrations**, (ignoring **water vapor**).

📍 **Total combined anthropogenic greenhouse gases** comprise (12,217 / 370,484) or **3.298%** of all greenhouse gas **concentrations**, (ignoring **water vapor**).

The various greenhouse gases are **not equal** in their heat-retention properties though, so to remain statistically relevant **% concentrations** must be changed to **% contribution** relative to CO₂. This is done in **Table 2**, below, through the use of GWP **multipliers** for each gas, derived by various researchers.

Converting greenhouse gas **concentrations** to greenhouse effect **contribution** (using *global warming potential*)

2. Using appropriate corrections for the **Global Warming Potential** of the respective gases provides the following more meaningful comparison of greenhouse gases, based on the conversion:

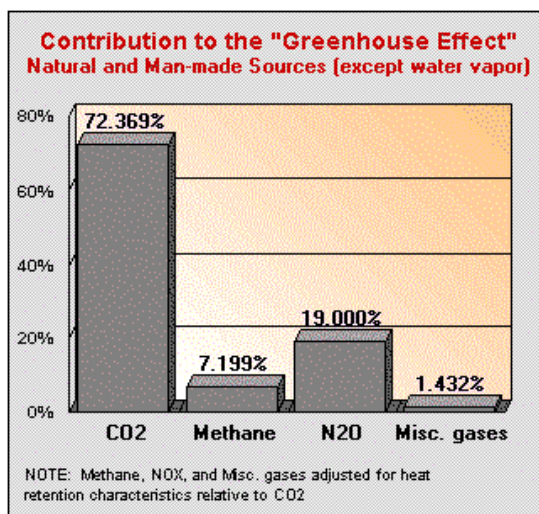
(**concentration**) X (the appropriate GWP multiplier (2) (3) of each gas relative to CO2) = **greenhouse contribution.**

TABLE 2.

**Atmospheric Greenhouse Gases (except water vapor)
adjusted for heat retention characteristics, relative to CO2**

This table adjusts values in Table 1 to compare greenhouse gases equally with respect to CO2. (#'s are unit-less)	Multiplier (GWP)	Pre-industrial baseline (new)	Natural additions (new)	Man-made additions (new)	Tot. Relative Contribution	Percent of Total (new)
Carbon Dioxide (CO2)	1	288,000	68,520	11,880	368,400	72.369%
Methane (CH4)	21 (2)	17,808	12,117	6,720	36,645	7.199%
Nitrous Oxide (N2O)	310 (2)	88,350	3,599	4,771	96,720	19.000%
<u>CFC's (and other misc. gases)</u>	<u>see data</u> (3)	2,500	0	4,791	7,291	1.432%
Total		396,658	84,236	28,162	509,056	100.000%

NOTE: GWP (Global Warming Potential) is used to contrast different greenhouse gases relative to CO2.



Compared to the **concentration** statistics in **Table 1**, the GWP comparison in **Table 2** illustrates, among other things:

📍 Total **carbon dioxide (CO2) contributions** are reduced to **72.37%** of all greenhouse gases (368,400 / 509,056)-- (ignoring **water vapor**).

Also, from **Table 2** (but not shown on graph):

📍 **Anthropogenic** (man-made) **CO2 contributions** drop to (11,880 / 509,056) or **2.33%** of total of all greenhouse gases, (ignoring **water vapor**).

📍 **Total combined anthropogenic greenhouse gases** becomes (28,162 / 509,056) or **5.53%** of all greenhouse gas **contributions**, (ignoring **water vapor**).

📍 Relative to **carbon dioxide** the other greenhouse gases together comprise about **27.63%** of the greenhouse effect (ignoring **water vapor**) but only about **0.56%** of total greenhouse gas **concentrations**. Put another way, as a group **methane, nitrous oxide (N2O), and CFC's and other miscellaneous gases** are about **50 times more potent** than CO2 as greenhouse gases.

To properly represent the **total relative impacts** of Earth's **greenhouse gases** **Table 3** (below) factors in the effect of **water vapor** on the system.

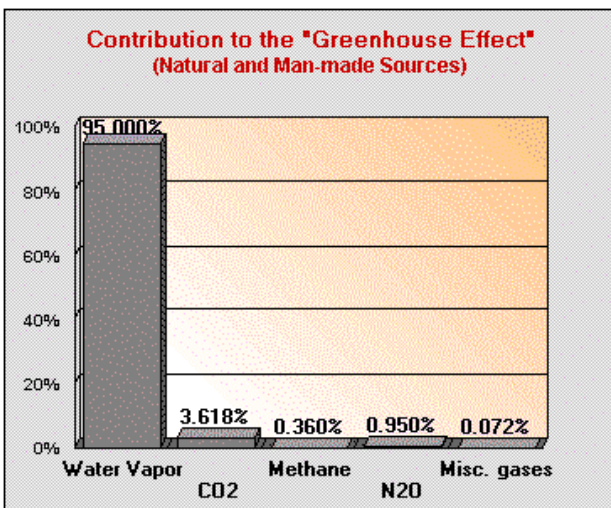
Water vapor overwhelms all other natural and man-made greenhouse **contributions**.

3. Table 3, shows what happens when the effect of **water vapor** is factored in, and together with all other greenhouse gases expressed as a relative % of the total greenhouse effect.

TABLE 3.

**Role of Atmospheric Greenhouse Gases
(man-made and natural) as a % of Relative
Contribution to the "Greenhouse Effect"**

Based on concentrations (ppb) adjusted for heat retention characteristics	Percent of Total	Percent of Total -- adjusted for water vapor
Water vapor	-----	95.000%
Carbon Dioxide (CO ₂)	72.369%	3.618%
Methane (CH ₄)	7.100%	0.360%
Nitrous oxide (N ₂ O)	19.000%	0.950%
CFC's (and other misc. gases)	1.432%	0.072%
Total	100.000%	100.000%



As illustrated in this chart of the data in **Table 3**, the combined **greenhouse contributions of CO₂, methane, N₂O and misc. gases** are small compared to **water vapor**!

Total atmospheric carbon dioxide (CO₂) -- both man-made and natural-- is only about 3.62% of the overall greenhouse effect-- a big difference from the 72.37% figure in **Table 2**, which ignored water!

Water vapor, the most significant greenhouse gas, comes from natural sources and is responsible for roughly **95% of the greenhouse effect (4)**. Among climatologists this is common knowledge but among special interests, certain governmental groups, and news reporters this fact

is under-emphasized or just ignored altogether.

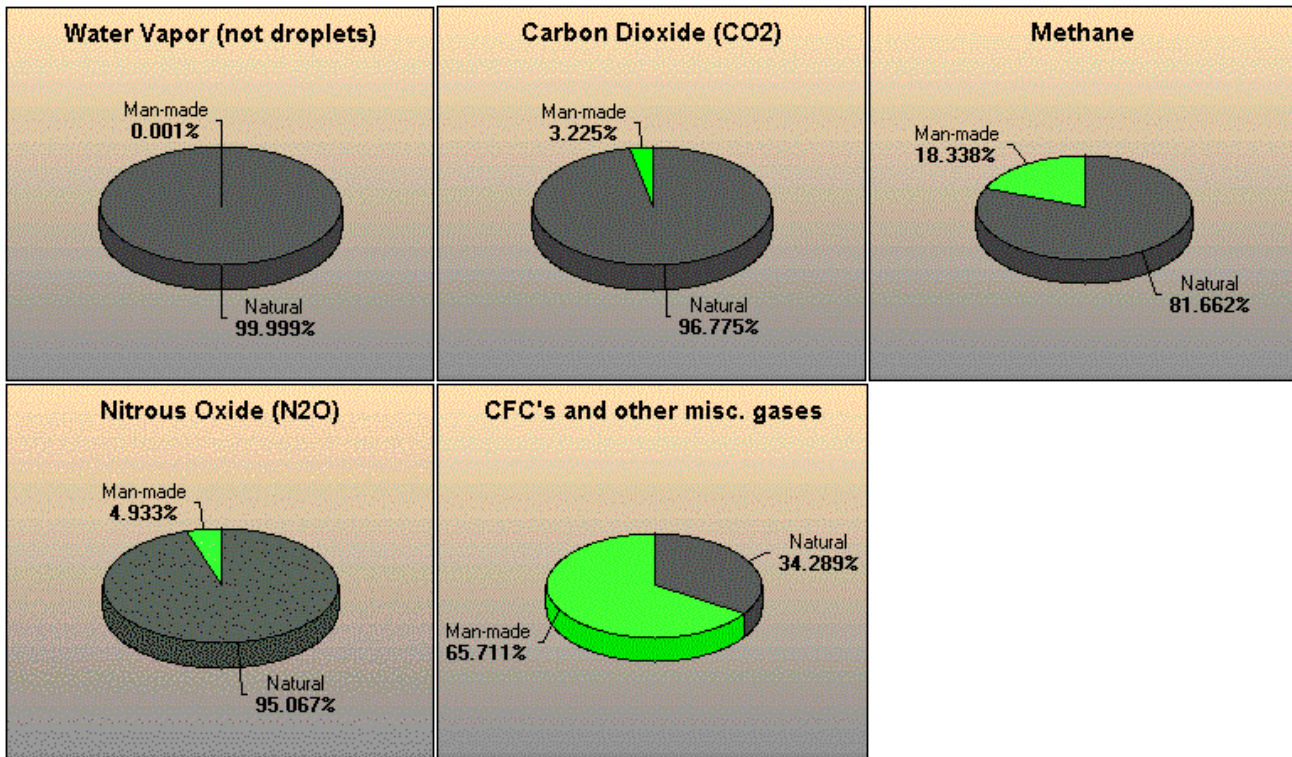
Conceding that it might be "a little misleading" to leave water vapor out, they nonetheless defend the

practice by stating that it is "customary" to do so!

Comparing natural vs man-made concentrations of greenhouse gases

4. Of course, even among the remaining 5% of *non-water vapor* greenhouse gases, humans contribute only a very small part (and human contributions to water vapor are negligible).

Constructed from data in **Table 1**, the charts (below) illustrate graphically how much of each greenhouse gas is **natural** vs how much is **man-made**. These allocations are used for the next and final step in this analysis-- total man-made contributions to the greenhouse effect. Units are expressed to 3 significant digits in order to reduce rounding errors for those who wish to walk through the calculations, not to imply numerical precision as there is some variation among various researchers.



Putting it all together:

total human greenhouse gas **contributions** add up to about **0.28%** of the **greenhouse effect**.

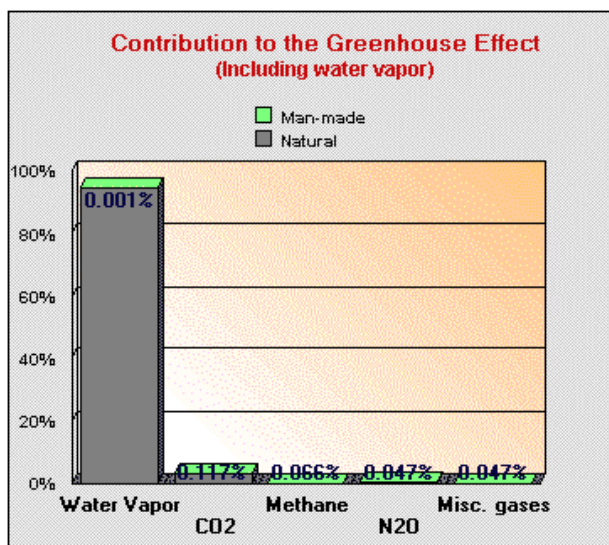
5. To finish with the math, by calculating the product of the adjusted CO₂ contribution to greenhouse

gases (3.618%) and % of CO₂ concentration from anthropogenic (man-made) sources (3.225%), we see that only (0.03618 X 0.03225) or **0.117% of the greenhouse effect is due to atmospheric CO₂ from human activity**. The other greenhouse gases are similarly calculated and are summarized below.

TABLE 4a.

Anthropogenic (man-made) Contribution to the "Greenhouse Effect," expressed as % of Total (water vapor INCLUDED)

Based on concentrations (ppb) adjusted for heat retention characteristics	% of All Greenhouse Gases	% Natural	% Man-made
Water vapor	95.000%	94.999%	0.001%
Carbon Dioxide (CO ₂)	3.618%	3.502%	0.117%
Methane (CH ₄)	0.360%	0.294%	0.066%
Nitrous Oxide (N ₂ O)	0.950%	0.903%	0.047%
Misc. gases (CFC's, etc.)	0.072%	0.025%	0.047%
Total	100.00%	99.72	0.28%



This is the statistically correct way to represent relative human contributions to the greenhouse effect.

From **Table 4a**, both natural and man-made greenhouse contributions are illustrated in this chart, in gray and green, respectively. For clarity only the man-made (anthropogenic) contributions are labeled on the chart.

📍 **Water vapor**, responsible for **95%** of Earth's greenhouse effect, is **99.999% natural** (some argue, 100%). Even if we wanted to we can do nothing to change this.

📍 **Anthropogenic (man-made) CO₂ contributions** cause only about **0.117%** of Earth's **greenhouse effect**, (factoring in **water vapor**). This is insignificant!

📍 Adding up all **anthropogenic** greenhouse sources, the **total human contribution to the greenhouse effect** is around **0.28%** (factoring in **water vapor**).

The **Kyoto Protocol** calls for mandatory carbon dioxide reductions of 30% from developed countries like the U.S. Reducing man-made CO₂ emissions this much would have an undetectable effect on climate while having a devastating effect on the U.S. economy. Can you drive your car 30% less, reduce your winter heating 30%? Pay 20-50% more for everything from automobiles to zippers? And that is just a down payment, with more sacrifices to come later.

Such drastic measures, even if imposed equally on all countries around the world, would reduce total **human greenhouse contributions** from CO₂ by about **0.035%**.

This is much less than the natural variability of Earth's climate system!

While the greenhouse reductions would exact a high human price, in terms of sacrifices to our standard of living, they would yield statistically negligible results in terms of measurable impacts to climate change. There is no expectation that any statistically significant global warming reductions would come from the Kyoto Protocol.

📌 " **There is no dispute at all about the fact that even if punctiliously observed, (the Kyoto Protocol) would have an imperceptible effect on future temperatures -- one-twentieth of a degree by 2050. "**

Dr. S. Fred Singer, atmospheric physicist
Professor Emeritus of Environmental Sciences at the University of Virginia,
and former director of the US Weather Satellite Service;
in a Sept. 10, 2001 Letter to Editor, *Wall Street Journal*

Research to Watch

Scientists are increasingly recognizing the importance of water vapor in the climate system. Some, like [Wallace Broecker](#), a geochemist at Columbia's Lamont-Doherty Earth Observatory, suggest that it is such an important factor that much of the global warming in the last 10,000 years may be due to the increasing water vapor concentrations in Earth's atmosphere.

His research indicates that **air reaching glaciers during the last Ice Age had less than half the water vapor content of today**. Such increases in atmospheric moisture during our current **interglacial period** would have played a far greater role in global warming than carbon dioxide or other minor gases.

📌 " **I can only see one element of the climate system capable of generating these fast, global changes, that is, changes in the tropical atmosphere leading to changes in the inventory of the earth's most powerful greenhouse gas-- water vapor. "**

Dr. Wallace Broecker, a leading world authority on climate
Lamont-Doherty Earth Observatory, Columbia University,
lecture presented at R. A. Daly Lecture at the American Geophysical Union's
spring meeting in Baltimore, Md., May 1996.

Known causes of global climate change, like cyclical eccentricities in **Earth's rotation and orbit**, as well as variations in the **sun's energy output**, are the primary causes of climate cycles measured over the last half million years. However, secondary greenhouse effects stemming from changes in the ability of a warming atmosphere to support greater concentrations of gases like water vapor and carbon

dioxide also appear to play a significant role. As demonstrated in the data above, of all Earth's greenhouse gases, water vapor is by far the dominant player.

The ability of humans to influence greenhouse water vapor is negligible. As such, individuals and groups whose agenda it is to require that human beings are the cause of global warming must discount or ignore the effects of water vapor to preserve their arguments, citing numbers similar to those in [Table 4b](#). If political correctness and staying out of trouble aren't high priorities for you, go ahead and ask them how **water vapor** was handled in their models or statistics. Chances are, **it wasn't!**

|| [Global Warming](#) || [Table of Contents](#) ||

References:

1) [Current Greenhouse Gas Concentrations](#) (updated October, 2000)

Carbon Dioxide Information Analysis Center

(the primary global-change data and information analysis center of the U.S. Department of Energy)
Oak Ridge, Tennessee

Greenhouse Gases and Climate Change (data now available only to "members")

IEA Greenhouse Gas R&D Programme,
Stoke Orchard, Cheltenham, Gloucestershire, GL52 7RZ, United Kingdom.

2) [Greenhouse Gases and Global Warming Potentials](#) (updated April, 2002)

U.S. Environmental Protection Agency

3) [Warming Potentials of Halocarbons and Greenhouses Gases](#)

Chemical formulae and global warming potentials from Intergovernmental Panel on Climate Change, *Climate Change 1995: The Science of Climate Change* (Cambridge, UK: Cambridge University Press, 1996), pp. 119 and 121. Production and sales of CFC's and other chemicals from International Trade Commission, *Synthetic Organic Chemicals: United States Production and Sales, 1994* (Washington, DC, 1995). TRI emissions from U.S. Environmental Protection Agency, 1994 Toxics Release Inventory: Public Data Release, EPA-745-R-94-001 (Washington, DC, June 1996), p. 73. Estimated 1994 U.S. emissions from U.S. Environmental Protection Agency, *Inventory of U.S. Greenhouse Gas Emissions and Sinks, 1990-1994*, EPA-230-R-96-006 (Washington, DC, November 1995), pp. 37-40.

4) re: 95% contribution of water vapor:

a. S.M. Freidenreich and V. Ramaswamy, "Solar Radiation Absorption by Carbon Dioxide, Overlap with Water, and a Parameterization for General Circulation Models," *Journal of Geophysical Research* 98 (1993):7255-7264

b. [Global Deception: The Exaggeration of the Global Warming Threat](#) 

by Dr. Patrick J. Michaels, June 1998

Virginia State Climatologist and Professor of Environmental Sciences, University of Virginia

c. [Greenhouse Gas Emissions, Appendix D, Greenhouse Gas Spectral Overlaps and Their Significance](#)

Energy Information Administration; Official Energy Statistics from the U.S. Government

d. Personal Communication-- Dr. Richard S. Lindzen

Alfred P. Slone Professor of Meteorology, MIT

e. [The Geologic Record and Climate Change](#)

by Dr. Tim Patterson, January 2005

Professor of Geology-- Carleton University

Ottawa, Canada

[Alternate link:](#) 

f. [EPA Seeks To Have Water Vapor Classified As A Pollutant](#)

by the [ecoEnquirer](#), 2006

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g. [Air and Water Issues](#)

by [Freedom 21.org](#), 2005

Citation: Bjorn Lomborg, p. 259. Also: Patrick Michaels and Robert Balling, Jr. The Satanic Gases, Clearing the Air About Global Warming (Washington, DC: CATO Institute, 2000), p. 25.

h. [Does CO2 Really Drive Global Warming?](#)

by Dr. Robert Essenhigh, May 2001

[Alternate link:](#) 

5) **Global Climate Change Student Guide**

Department of Environmental and Geographical Sciences

Manchester Metropolitan University

Chester Street

Manchester

M1 5GD

United Kingdom

6) [Global Budgets for Atmospheric Nitrous Oxide - Anthropogenic Contributions](#)

William C. Trogler, Eric Bruner, Glenn Westwood, Barbara Sawrey, and Patrick Neill

Department of Chemistry and Biochemistry

University of California at San Diego, La Jolla, California

7) [Methane record and budget](#)

Robert Grumbine

Useful conversions:

● 1 Gt = 1 billion tons = 1 cu. km. H₂O

● 1 Gt Carbon(C) = ~3.67 Gt Carbon Dioxide(CO₂)

● 2.12 Gt C = ~7.8 Gt CO₂ = 1ppmv CO₂

This page by: [Monte Hieb](#)

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