

Global Warming: Who to Believe?

International Association for Energy Economics

April 17, 2006

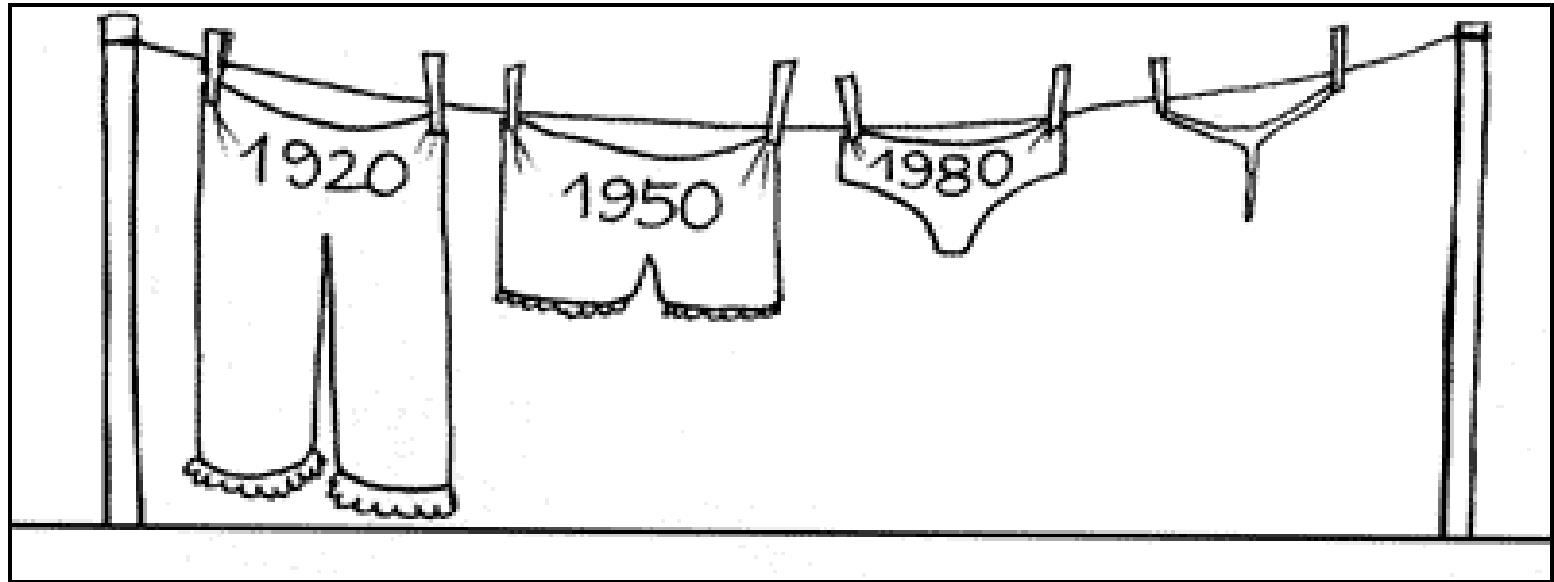
Key References

- 1. Crichton, M., *State of Fear (SOF)*, 12.07.04**
- 2. Westbrook, G., *'Acid Rains' on Liberal Propaganda ('AR')*, 2.09.04**
- 3. Will, G., *Global Warming? Hot Air*, Washington Post, 2.23.04**
- 4. Westbrook, G., *The Skeptics on the Global Warming Issue: The Distinguished Veterans*, IAEE, 4th qtr, 2005.**

Global Warming

- The authors of *State of Fear* and 'AR' are strong skeptics on the global warming issue.
- However, recent new evidence on global warming has now emerged, that has shaken the convictions of many skeptics.
- The *warmers* claim this new evidence will be difficult if not impossible to refute.

New Evidence of Global Warming



Your trustworthy skeptic will not be intimidated by this disturbing social trend. I am sure you will agree that this evidence is very skimpy.

But so is much of the *warmers* evidence.

Objectives of *SOF* and ‘*AR*’

1. *SOF/‘AR’*: put the global warming (**GW**) issue, and the Kyoto Protocol (**KP**), into much better perspective.
 - 2.1 *SOF*: show that the politico-legal-media complex (PLM) must keep populace in a continuous **state of fear**.
 - 2.2 ‘*AR*’: show that the ultra-liberals & global warmers must use a tidal wave of propaganda to gain & hold power.
3. *SOF/‘AR’*: show the danger in mixing politics & science.

More Comparison between SOF & 'AR'

- **Book Type**

SOF: a science fiction, *James Bond* like novel.

'*AR*': a non fiction book, part history, part science.

- **Treatment of other material**

SOF: Brings in many non-fiction inputs on GW — tables, graphs, discussions between book characters - - -.

'*AR*': uses science fiction (*Gorons and Morons*) to help describe and define the ultra liberals and global warmers.

Why warmers hate *SOF*

- *Warmers* have severely criticized this book. They charge the plot is ludicrous and the characters ridiculous. Hence so is the book.
- But no more so than any of the Bond stories.
- What really infuriates the warmers is Crichton bringing in hard science on the global warming issue into this science fiction novel.

Inputs from George Will

While the warmers scream that *SOF* is a ludicrous book, George Will, in contrast, called it “**a political broadside, woven into an entertaining story.**”

Will noted two major themes in Crichton’s book.

Theme I: global warming will cause catastrophic climate change (CCC).

Theme II: we live in an era where conventional wisdom (CW) is routinely manufactured.

Theme I — CCC

- It takes many pages — of secret agent after secret agent going after key esoteric technologies, with all traces of each purchase erased — before one realizes the **CCC events are to be created** by one or more extreme environmental groups involved in this novel.
- Such events are to occur just before a massive conference on CCC in order to generate huge publicity, maximize recruits, and stimulate mega donations from the wealthy.

CCCs covered in *SOF*

- Ice Shelf Shedding – Antarctica
- Gigantic Flash Flood – Arizona
- Tsunami – New Guinea
- These adventures will not be covered here.
- Note: when warmers talk of **CCC** they are really talking of an Extreme Weather Event (**EWE**).

Possible CCCs over the 20th Century

Dust Bowl: ~1930 to 1940. If this were a CCC why are we not still in a dust bowl? See ill defined cycle(s) at work here.

Level of Great Lakes: My in-laws lived on Lake Huron. I lived briefly on Lake Huron. And we heard many stories of an unprecedented rise. Turns out to be ~ a 15 year cycle.

European heat wave, 2003. Again many such events. Many deaths, but many deaths from extreme cold too.

A few EWEs over the past 105 years

- 1900 — Galveston hurricane, killed >6000.
- 1938 — Long Island hurricane, killed > 600.
- 1953 — MI tornados, killed 121, then moved on to New England and killed 94 more.
- 1963 — MI blizzard, April 17th , slept on church pew.
- 1975 — Lake Superior storm & the Edmund Fitzgerald.
- 1986 — MI flood, 500 to 35,000 cubic feet per second.
- 1997 — Quebec ice-storm. Hundreds of Al towers down.
- 2005 — Katrina kills > 1300, but not all due to Katrina.

Theme II — Creation of CW

Today, the global warming issue has become **CW**. This is noted as the 4 **Key assumptions of GW**:

- 1) it is happening,
- 2) it is caused by society,
- 3) it will be terrible,
- 4) but we, the warmers, know what needs to be done to stop it.

Other Skeptics

There are many other skeptics out there. What follows are the views of **one key set** of skeptics, what I call the *Distinguished Veterans*.

These are scientists, many retired, many with *emeritus* in their current title. These are individuals with incredible careers. They do not have to chase after grant \$.

A few examples follow. See also Reference 4.

Hurricane Experts # I

Dr. Neil Frank, TV 11, is a former director, NHC.

He has noted that the models used in weather forecasting can't be relied on for a three day forecast.

Yet, for **GW**, we are being asked to rely on similar, but **simpler models**, applied in a far more **complex situation** — 100 year forecasts.

Hurricane Experts # II

- **Dr. William Gray** — is the nations preeminent hurricane authority, and a fellow of the AMS.
- He has noted that when “the modelers move out onto the climate area, the complexity becomes too damm much.”
- “Nearly all my colleagues who have been around for 40 to 50 years, are skeptical as hell about this whole global warming thing.”

Hurricane Experts # III

Dr. Tad Murty, is an Indian, with a PhD from the U. of Chicago in Oceanography/Meteorology. Worked 27 years for the Canadian Dept. of Fisheries and Oceans, and 3 years for the Australian Tidal Facility. He is an expert on all ocean phenomena and the former president of the Tsunami Society.

Has spent 18 years as editor of: Int. J. of Natural Hazards. Out of 2000+ manuscripts he has seen, not one based on actual observations claimed that **EWEs** are coupled to **GW**.

Calls **GW** the biggest hoax ever perpetuated on humanity.

Houston Chronicle:

“there’s going to be a warming.”

- C. Rapley, British Antarctic Service, and a rather smug *warmer*, asked:
“do you agree that physics is physics? “If carbon is increasing how can you really deny there’s going to be warming?”

Physics Experts

OK, lets see how three physics experts relate to the global warming issue.

These experts are:

W. Nierenberg,

F. Seitz and

R. Jastrow.

Joint authors of the 1990 book: *Scientific Perspectives on the Greenhouse Problem.*

Physics Experts # I

Dr. William Nierenberg (1919 – 2000) was director of Scripps Institute of Oceanography from 1965 to 1986, and an expert on several areas of underwater research.

Nierenberg was a member of EPA's Committee on Global Climate, the NAS Climate Research Board, and a former chairman of the NAS CO₂ Assessment Committee.

Nierenberg also served on several panels of the Presidents Science Advisory Board.

Physics Experts # II

- **Dr. Frederick Seitz**, was born in 1911, and earned his PhD from Princeton, in 1934. He continued at Princeton until 1949, working on solid state physics.
- Seitz moved to the U. of Illinois, until 1965, rising to Dean of the Graduate College.
- From 1965 to 1968 Seitz became president of the NAS.
- He became president of Rockefeller U. from 1968 to 1978, and is now President Emeritus.
- He is also a former chairman of the Defense Science Bd.

Physics Experts # III

- **Dr. Robert Jastrow** was born in 1925 and earned his degrees in physics from Columbia U.
- He joined **NASA** in 1958 and formed the Goddard Inst. For Space Studies (GISS) in 1961. He served as its director until his retirement in 1981.
- Jastrow then moved to Dartmouth College for 11 years as a professor of Earth Sciences.
- Next he became chairman of the Board of Trustees at the Mt Wilson Institute, which manages the Mt. Wilson Obs.

“there’s going to be a [*small*] warming.”

In 1990, these 3 physicists attacked the UN’s range for the 21st century global warming — of **1.5 to 4.5 °C**. Range is too pessimistic. Accused UN of dealing in fear.

Their assessment is based on **observational data only**.

For a 50% Δ GHGs from pre-industrial times assumed a **0.3 to 0.6 °C** rise, the GW up to ~ 1990.

For a 100% Δ GHGs from pre-industrial times came up with **0.4 to 1.8 °C**, vs the **1.5 to 4.5 °C** by the UN.

Note: this is only **0.1 to 1.2 °C** above the 1990 rise

More on UN °C Range

Data below shows the UN still pushes pessimism.

In 2001, UN's new range reset at **1.4 - 5.8 °C** vs the earlier range of 1.5 - 4.5 °C.

Note the **5.8 °C value** is not based on new physics, only a new scenario definition!

Per capita emissions, globally (as Carbon):

- in 1979, peaked at 1.23 tons/year per person;
- in 1999, down to 1.11 tons/year per person;
- in 2100, up to 4.00 tons/year per person.

Conclusions

If nothing else *SOF* shows that a debate exists on GW.

Yet, one may still choose to reject inputs from a MC as he is not an active researcher in any of the key fields.

However, one should heed the views of the *DVs*.

While their views will not end the debate on GW, their views should put an end to the ridiculous positions that a consensus exists on GW, and that all (almost) scientists are behind the warmers position on GW.

The next 4 slides reviews the 4 assumptions on GW.

Assumption I: Earth is Warming

- Most warmers claim about a 0.5 °C rise since the pre-industrial era.
- Most skeptics are willing to accept this base. For example the 3 physicists used 0.3 to 0.6 °C.
- However, many skeptics still argue.
 - (1) The surface database is flawed (UHI effect).
 - (2) Other Databases (satellite, balloon) show less if any warming.

Assumption II: Society is responsible

- Warmers base this conclusion primarily on inputs from their huge computer models, but most, if not all of the *DVs* are very concerned on the validity of these models, or have outright contempt for them.
- Earth *lives* in a tidal wave of cycles: daily, monthly, annual, 11 year sun-spot cycle etc, etc, etc. Anything we have seen to date may be due to natural climate variation rather than by the **Global Warming H^o**.
- Believe sun has major and evolving role in this field.

Assumption III: It will be terrible

- 1989 Quotes from a **Dr. Stephen Schneider**, Stanford University and a prominent *warmer*:
- “- - - we have to offer up some scary scenarios, make simplified, dramatic statements, and make little mention of any doubts we might have.”
- “Each of us has to decide what is the right balance between being effective and being honest.”
- There goes the *Scientific Method*.”

Assumption IV:

We, the warmers, know what to do to stop it.

- **T. Wigley** is a warmer. His computer runs, in 1998, found a fully implemented KP would reduce warming by only: 0.07 °C by 2050 and another 0.13 °C by 2100. If we used 3.0 °C as the expected warming, would need **15 KPs!**
- **James Hansen** the *father* of this issue, due to his 1988 testimony, confessed in 1998: “the forcings that drive long term climate change are not known with an accuracy sufficient to define future climate change.”

Summary

The idea that we are in an unprecedented situation on CCC/EWE has been examined and refuted.

While one may dismiss the views of MC/GTW, it would be very imprudent to ignore the *DV* views.

The 4 key assumptions on global warming have been assessed. The GW issue, and the KP, have been found to be, at best, very premature and, at worst, an incredible hoax.