Stratospheric Volcanic Aerosol (NASS GISS Aerosol Optical Thickness)

USHCN V2 Annual Temperatures vs TSI

Climate Change

Volcanic Aerosol (NASS GISS Aerosol Optical Thickness)
"Historically, the claim of consensus has been the first refuge of scoundrels; it is a way to avoid debate by claiming that the matter is already settled."

**Michael Crichton**  
(Science fiction novelist, playwright, and lecturer)
Consensus?

- Heartland Institute organized the 2008 International Conference on Climate Change in NYC with 500 attendees, 100 speakers from all over the world (20 countries) (on-line)

- Heartland ICCCs in 2009 in NYC and DC had 1000 attendees and over 80 speakers (on-line)

- The Petition project has 34,000 US scientists 9,200 PhDs signed petition stating that there is no scientific evidence that greenhouse gas emissions are producing harmful effects

- 1300 signed the Manhattan Declaration in 2008 denying the so-called consensus position

- Over 700 scientists have come out to EPW questioning the so-called consensus
“…The Only Constant in Nature is Change…”
5 of the last 7 decades have seen cooling since WWII in the post war boom.
Monthly Temperature vs CO2

Graph showing the monthly temperature vs CO2 levels from 2002 to 2009. The graph includes data from Hadley CRUT3v, ESRL CO2, UAH, and MSU.
Global monthly temperature anomalies, January 2002 to July 2009
IPCC predicts warming at +2.4, +3, +3.9, +4.7, +5.3 °C/century
The observed cooling trend is equivalent to 2.3 °C/century
PREDICTED WARMING TREND FROM 1890 TO NOW BY IPCC CLIMATE MODELS
Measuring atmospheric temperatures
Predicted Warming by Computer Models

Actual Observed Temperature Change

NO MATCH!
Most of the warming in the climate models comes from the positive feedbacks assumed when CO2 increases and air warms.

- Higher water vapor content (stronger GHG)
- More tropical high clouds to trap heat

In the absence of positive feedbacks, CO2 warming for a doubling would be less than 0.5C, much of which may be already built in.

Satellite and weather balloon data suggest strongly these serve instead as negative feedbacks.
Five years’ global ocean cooling: reality yet again disobeys models

Argo diving buoys to 2000 meters
Sea level: Gore’s “Armageddon scenario” is not occurring

Oceans cooling, contracting, sea levels steady

Inverse barometer not applied

Rate = 3.2 ± 0.4 mm/yr

Seasonal signals removed

Univ of Colorado 2009_rel2
Northern Hemisphere Sea Ice Anomaly

Anomaly from 1978-2000 mean

Ice Anomaly (million square km)

Year

Recovery continues 26%
Southern Hemisphere Sea Ice Anomaly

Anomaly from 1979-2000 mean
Global cooling by 0.71 deg C from 1878 to 1911, for 33 years.
Global warming by 0.53 deg C from 1911 to 1944, for 33 years.
Global cooling by 0.48 deg C from 1944 to 1976, for 32 years.
Global warming by 0.67 deg C from 1976 to 1998, for 22 years.
Global Data Base Issues

- Station dropout (>2/3rd since 1990) mainly rural
- Missing data increased tenfold after 1990
- Urban adjustment not used or totally inadequate even as world population increased 1.5 to 6.7 billion since 1900
- Siting for vast majority of observing sites does not meet WMO standards set with significant warm biases
- Oceans cover 71% of the globe and questions about how much and when to adjust for changing measurement techniques (buckets to ship intake to satellite). Recently NCDC removed satellite inputs because of ‘complaints’ about cold bias.

*How can we ever hope to detect trends to a precision of a tenth of a degree*
Station Dropout and Global Temps

A discontinuity in both at the same time

Most were rural stations
Counties in CA with >1 million Population
+4F

Counties in CA with between 100,000 and 1 million population
+1F

Counties in CA with less than 100,000 Population
0F

Goodridge 1996
Difference NOAA NCDC and microwave satellite UAH AND RSS 1979-2008
Waste Treatment Plants

Ontario, OR
Rome’s Ciampino Airport
USHCN - Station Site Quality by Rating

948 of 1221 stations rated as of 5/31/09
78% of the total

Error Rating
< 1°C CRN=1
≥ 1°C CRN=2
≥ 2°C CRN=3
≥ 5°C CRN=4

surfacestations.org
A resource for climate station records and surveys
Contamination of the Data Bases

Numerous peer-reviewed papers ignored by the IPCC and the data centers have estimated that these problems with the observing networks may account for 30%, 50% or more of warming since 1880 (Kalney and Cai, de laat and Maurellis, Pielke and Davey, Pielke et al (numerous), Lin and Pielke, Michaels and Balling, Michaels and McKittrick, Runnals and Oke, Watts).