

NZCLIMATE TRUTH NEWSLETTER NO 225

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THE OCEAN IS HEATED FROM BELOW

The "globe" is cooling. The sea level is not rising. The ice is advancing. What is left?
The ocean is heating.

The last two IPCC Reports made a big thing of ocean heating. The methods used showed considerable variability. The average showed periodicity, with troughs in 1965 and 1986 and peaks in 1980 and 2005, but the temperature increase from the 1965 trough to the later peak of 2005 was confidently attributed to "global warming" caused by carbon dioxide emissions.

At least, that was the story in the first two drafts of the 2007 Report. Then the people measuring temperature provided the disturbing news that the 2005 figure actually showed a fall in temperature, and they had to put that into their final Report.

Then there was overwhelming pressure on the scientists to backtrack on such a disturbing observation, and, loyally, they discovered a "rogue" unreliable sensor which restored the IPCC "confidence" that the ocean temperature is rising.

So they increased their coverage with a new sophisticated system called ARGO which has 3,000 probes. The results are disastrous, and they have yet to admit it. They are given in the following paper

K von Schukmann, F Galliland, and P Y Le Traon 2009 Geophysical Research Letters Vol 11124.09007. doi:1029/2008JC005237 "Global hydrographic variability patterns during 2003-2008"

To start with, the average temperature is falling. But what is worse, the variability is so great that it could not possibly be heated from the atmosphere. So it must be heated from below, from all the underwater volcanoes and plate movements that have so far been neglected. I attach the record for the Pacific Basin which includes the variability of salinity,

This all comes on top of the paper by Douglass and Knox at

Douglass, D.H. and R. Knox, 2009: Physics letters A. Volume 373, Issue 36, 31 August 2009, Pages 3296-3300 "Changes in Net Flow of Ocean Heat Correlate with Past Climate Anomalies"

The abstract reads

“Earth’s radiation imbalance is determined from ocean heat content data and compared with results of direct measurements. Distinct time intervals of alternating positive and negative values are found: 1960–mid 1970s (-0.15), mid-1970s–2000 (+0.15), 2001–present (-0.2 W/m²), and are consistent with prior reports. These climate shifts limit climate predictability.”

The summary reads

“ We determine Earth’s radiation imbalance by analyzing three recent independent observational ocean heat content determinations for the period 1950 to 2008 and compare the results with direct measurements by satellites. A large annual term is found in both the implied radiation imbalance and the direct measurements. Its magnitude and phase confirm earlier observations that delivery of the energy to the ocean is rapid, thus eliminating the possibility of long time constants associated with the bulk of the heat transferred.

Longer-term averages of the observed imbalance are not only many-fold smaller than theoretically derived values, but also oscillate in sign. These facts are not found among the theoretical predictions.

Three distinct time intervals of alternating positive and negative imbalance are found: 1960 to the mid 1970s, the mid 1970s to 2000 and 2001 to present. The respective mean values of radiation imbalance are -0.15, +0.15, and -0.2 to -0.3. These observations are consistent with the occurrence of climate shifts at 1960, the mid-1970s, and early 2001 identified by Swanson and Tsonis.

Knowledge of the complex atmospheric-ocean physical processes is not involved or required in making these findings. Global surface temperatures as a function of time are also not required to be known.”

The periodicity found coincides with the behaviour of the Pacific Decadal Oscillation (PDO), and as the heating is from below, this heating is related to the PDO must also behave in a periodic fashion.

The finding that the earth's energy is not balanced shows that the fundamental assumption of all the computer climate models that it IS balanced is incorrect, and means that all the models are wrong.

The global warmers and "climate change" enthusiasts have no excuses left.

Cheers
Vincent Gray