

# NZ CLIMATE TRUTH NEWSLETTER NO 251

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## CLIMATE FRAUD

Let me start with a comment on a paper by Peterson on the First Difference Method and put this in the perspective of my 20 years of intensive study.

It all began when many people became convinced that the "planet" was being "destroyed" by human greenhouse gas emissions and the every measure must be used to "save" the "planet" from this impending disaster.

It was evident from the beginning that the regular scientific techniques could not be used. The quality of the data and the extent of our knowledge of the climate were inadequate. Many honest scientists (for example J W D Hessel) and even prominent warmists in their lucid moments (for example Jim Hansen) admitted that this was so. I have summarized this impossibility in a recent paper (Scientific Method and the "Greenhouse" Theory, below). This paper has been rejected by "Energy and Environment". It seems that even they dare not be publicly associated with what everyone knows is true.

Since the end (saving the planet) justifies any means, they had no alternative but fraud.

It consists of a large number of fraudulent devices.

### **\*Doublespeak and Spin.**

This is the use of ambiguous and emotive language to conceal the absence of content. See below for my recent update of "Doublespeak".

### **\*Deliberately fraudulent scientific papers**

I have listed some of these in my "Global Scam" paper at

[http://nzclimatescience.net/index.php?option=com\\_content&task=view&id=369&Itemid=32](http://nzclimatescience.net/index.php?option=com_content&task=view&id=369&Itemid=32)

The "hockey stick", the downplaying of solar and ocean events, Himalayan glaciers, Hide the Decline, are others.

### **\*Suppression of evidence**

Original temperature observations are suppressed or lost, undesired gas concentration measurements are suppressed as "noise" (i.e. "unwelcome data"). All evidence of variability has to be eliminated.

### **\*Organized Guesswork**

The apparent recommendations of the UN IPCC are the "Carefully considered opinions" of "Experts", all of them being indoctrinated supporters, programmed to provide the guesses required for the demands of the warmers.

The procedure is described by the IPCC (see my "Spin" paper at

[http://nzclimatescience.net/index.php?option=com\\_content&task=view&id=293&Itemid=30](http://nzclimatescience.net/index.php?option=com_content&task=view&id=293&Itemid=30)

### **\*Abandonment of fundamental statistical principles**

All the opinions of the "experts" have no statistical significance according to basic requirements of mathematical statistics. Samples are never representative. Averages are never validly derived. Uncertainties are usually absent or are themselves "expert" guesses.

Temperature "anomalies" are treated as if they were constants and subjected to "homogenization" and various pseudo statistical treatments like the "First Difference Method" and "Bayesian statistics" with the sole object of enhancing any "trend".

Joe D'Aleo and Anthony Watts have documented a whole army of similar fraudulent "correction": techniques, all designed to correct upwards at [http://scienceandpublicpolicy.org/originals/policy\\_driven\\_deception.html](http://scienceandpublicpolicy.org/originals/policy_driven_deception.html)

### **\*Distortion of climate news events**

All climate events are distorted to fit a "climate change" model through control of all news media. In some ways this is their most effective technique as most of us have been so overwhelmed with this constant and unrelenting propaganda that we end up beginning to think that maybe there might be something in it after all and perhaps a little bit of the "precautionary principle" might be acceptable.

### **\*Attacks on Opponents**

"Deniers" are prevented from publication in learned Journals controlled by the warmists with control of the peer review process. We are lackeys of Big Oil, without a career, only retired people can survive

### **\*All honourable men (and a few women)**

How could so many respectable prestigious and decorated people be parties to such a comprehensive deception. We know so many of them. They are Nobel prizewinners, Australians and Wellingtonians of the year, we cannot insult them with such a thing as truth, can we?

Cheers

Vincent Gray  
Wellington

"To kill an error is as good a service  
as, and sometimes better than, the  
establishing of a new truth or fact"  
Charles Darwin

# SCIENTIFIC METHOD AND THE “GREENHOUSE” THEORY

by Vincent Gray

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## ABSTRACT

The theory that increased human-related emissions of so-called “greenhouse” gases have a harmful effect on the climate has not been confirmed by the procedures of the scientific method. The theory cannot be confirmed by experiment or the climate and observations cannot be repeated so the assumptions cannot be falsified by validation of the models.

This situation is accepted by the Intergovernmental Panel on Climate Change (IPCC) which insists that its models provide only “projections”, not “forecasts” or “predictions” and its models are “evaluated” only by “experts”, and “attributed” not “validated”.

The temperature measurements used for producing the Global Mean Surface Temperature Anomaly Record (MGSTAR) are shown to be so inaccurate that “trends” in the record are meaningless. Attempts to show a correlation between this record and model outcomes fail to include the most important influences on temperature and are therefore unreliable.

**Despite the lack of scientific rigour, public perception continues to support the “greenhouse” theory of “global warming”.**

Absence of scientific rigour exists in other scientific disciplines, but its acceptance does not have such important consequences as the current policies that depend on the inadequate advice of climate science.

## PUBLIC PERCEPTION

There is a widespread public perception that increasing emissions of greenhouse gases into the atmosphere by humans is harmful to the climate and that it causes a general warming of the earth’s surface. There is also a widespread public perception that these beliefs have been proven to be true by scientific evidence. It is the purpose of this paper to examine whether there is scientific evidence for the supposed harmful influence of human-emitted greenhouse gases

The study must begin by examining what is meant or implied by “scientific evidence”. The term “science” can be applied to almost any empirical knowledge, usually involving some form of reasoning. It can apply to the knowledge shown by primitive humans and even aspects of the behaviour of other organisms. Scientific evidence needs to go beyond a mere description to comprise the methodical procedures of the scientific method. In order to justify the economically expensive measures which are currently being carried out or proposed for controlling greenhouse gas emissions.

## THE SCIENTIFIC METHOD

According to Wikipedia<sup>1</sup>, The Scientific Method

“... consists of the collection of data through observation and experimentation, and the formulation and testing of hypotheses.”

Scientific observations and experiments must be capable of being repeated by independent observers.

The philosopher Karl Popper<sup>2</sup> considered that:

"In so far as a scientific statement speaks about reality, it must be falsifiable; and in so far as it is not falsifiable, it does not speak about reality".

Falsifiability is tested by a process called "validation". This includes the ability to simulate existing and past behaviour but it must also show that a scientific hypotheses can forecast future behaviour to a satisfactory level of accuracy. Without this step it is impossible to derive an estimate of the accuracy of any result,

Current climate science, as summarized by the United Nations Intergovernmental Panel on Climate Change (IPCC)<sup>3</sup> fails to implement the procedures of the scientific method for the following reasons:

- "Experimentation" is impossible. "Experiments" with computers are not experiments on the climate.
- Climate observations cannot be repeated by independent observers. Yesterday's measurement of temperature cannot be independently checked.
- None of the statements by the Intergovernmental Panel on Climate Change (IPCC)<sup>3</sup> on the "likely" behaviour of future climate can be falsified at present because they all refer to the year 2100.
- The opinions of "experts" cannot replace proper scientific investigation.

Edward Lorenz<sup>4</sup> claimed that any information about the climate is subject to "chaos". He stated

"... in view of the inevitable inaccuracy and incompleteness of weather observations, precise, very long range forecasting would seem to be non-existent."

His arguments arise from the fact that a scientific understanding of the behaviour of fluids involves the use of nonlinear equations whose solution depends on exact knowledge of present conditions.

The IPCC<sup>5</sup> has tried to claim immunity from "chaos" in the following statement:

**"A common confusion between weather and climate arises when scientists are asked how they can predict climate 50 years from now when they cannot predict the weather a few weeks from now. The chaotic nature of weather makes it unpredictable beyond a few days. Projecting changes in climate (i.e., long-term average weather) due to changes in atmospheric composition or other factors is a very different and much more manageable issue".**

Rind<sup>6</sup>, however, disagrees:

**"The climate that we experience results both from ordered forcing and chaotic behaviour, the result of a system with characteristics of each. In forecasting prospective climate changes for the next century, the focus has been on the ordered system's responses to anthropogenic forcing. The chaotic component may be much harder to predict, but at this point it is not known how important it will be"**

The IPCC appreciated the necessity for attempting to falsify results by a process of validation from the beginning. Their first Report (1990)<sup>7</sup> has a Chapter 4 "Validation of Climate Models".

A similar Chapter appeared in the First Draft of the next (1995) Report and, as an “Expert Reviewer” at the time, I submitted the comment that since no Climate Model has ever been validated the term was inappropriate. Somewhat to my surprise, they agreed with me. In the Second Draft, not only had the title of the Chapter been changed, to “Evaluation of Climate Models” but the words “validation” and “validated” had been altered to “evaluation” and “evaluated” no less than fifty times in the text. In addition, all references to “forecasting” and “prediction” had been removed and all model results are now “projections” whose value depends on the extent to which their assumptions can be believed.

These practices are now standard throughout all the IPCC Reports. In other words, the IPCC admits that Climate Science cannot meet the requirements usually regarded as essential for the scientific method.

Attempts at correlation between climate properties and model outputs are made, despite an admission that this procedure does not prove cause and effect. It is called “attribution” and techniques such as inter-comparison of models and Bayesian statistical techniques, are used to improve the “reliability” of models. They actually ensure that all models make uniform mistakes.

The recent Report by Sir Muir Russell<sup>8</sup> which enquired into the disclosure of Emails from climate scientists at the Climate Research Unit at the University of East Anglia, (CRU) confirmed current IPCC practice as follows:

**“8. Modern digital technologies permit the acquisition and manipulation of very much larger datasets than formerly. To enable proper validation of the conclusions, such datasets must be made freely available, along with details of the associated computational manipulation. Its purpose is to produce a ‘best estimate’ of what is currently understood, through the work of a group of scientists chosen for their expertise and experience to make reasoned assessments on the balance of evidence.”**

This statement confirms that a “best estimate” obtained from “experts” has replaced scientific investigation. It does not mention that a “proper validation” of climate models is never made.

They did not seem to appreciate that “datasets” of original surface temperature measurements on the earth’s surface are not available. The “datasets” that are available are the result of multiple manipulation of the original observations, but the processes and the inaccuracies of these manipulations are not revealed.

The members of the panel took the trouble to confirm that these publicly available processed figures do give a version of the published MGSTAR when manipulated by approved techniques.

Other disciplines which are considered as “Sciences” may also adopt procedures which depart from the scientific method. Geology, Biology, Anthropology, Psychology, Sociology, and Economics may have to deal with observations or experiments that are not repeatable and theories that are not falsifiable and they may sometimes also use correlation and the opinions of “experts” instead of proper scientific evidence, but it is rare that the economic consequences can be as severe as inadequate climate advice

It is a long-established logical principle that a correlation, however convincing, cannot prove cause and effect. My old statistics textbook<sup>8</sup> gives two examples that show this is so. A high correlation between teachers’ salaries and consumption of alcohol or a high correlation between birth rate and the number of storks in Holland are not proof of a causal relationship. Yet 64% of Americans appear to believe that correlation does prove causation<sup>9</sup> and we are constantly being told of “links” which can be made between one thing and another.

## TRUTH AND PROBABILITY

The Scottish philosopher David Hume<sup>10</sup> wrote:

“all knowledge degenerates into probability; and this probability is greater or less, according to our experience of the veracity or deceitfulness of our understanding, and according to the simplicity or intricacy of the question”.

Until the development of mathematical techniques for the estimation of probability, scientific measurements were only available in the form of “ranges” of values from different experiments or observers. There was no technique for preferring any figure. Studies in the 1930's by Fisher, Yates and others have supplied an array of mathematical techniques for obtaining a most probable estimate from a number of observations, together with a means of estimating the probable reliability of this figure. There are also techniques for estimating the reliability of mainly linear “trends”.

These techniques are now widespread and even familiar. They are supplied on every “scientific” calculator and computer spreadsheet. The results are quoted as part of opinion polls and medical experiments for assessing the value of drugs. It is unfortunate that there is widespread ignorance, even amongst scientists, as to the degree to which quoted results comply with the assumptions of the mathematical equations used.

The most common mathematical technique employs the Gaussian distribution, or “bell curve”, as a model for a probability distribution. The main reasons for this are that it is mathematically fairly simple and that it does approximately fit many real sets of measurements. Its estimates are however unreliable unless the results comply with the following assumptions:

- Samples must closely resemble a Gaussian curve
- Samples must be random and unbiased
- Samples must be completely uniform in all circumstances
- The distribution curve of results must be symmetrical

Many observations of the climate do not conform with one or more of these assumptions. For example, although it is often true that measurements close to an average roughly fit the Gaussian curve, the fit usually not so successful for low probability, outlier measurements. It is therefore wrong to base predictions of the behaviour of outliers on statistical estimates obtained from the most probable measurements. Thus we are always finding that “100 year” floods droughts or hurricanes may occur much more frequently than “expected”.

## TEMPERATURE MEASUREMENT

The most important climate property for establishing the “greenhouse” theory is temperature.

It is the public perception that the globe is warming. Yet there is no technique currently available to us to discover whether this is true to a known level of accuracy. It is just not possible to place temperature measuring equipment in a random and representative fashion over the entire surface of the earth, Even measuring the surface temperature in one single place cannot be done in a satisfactory manner. This point is eloquently made by Hansen<sup>11</sup> and elaborated by Pielke et al.<sup>12</sup>

Yet it was Hansen himself<sup>13</sup> who was responsible for the suggestion that “temperature anomalies” could be established by making use of temperature measurements at weather stations. He proposed a system of dividing the globe into latitude/longitude boxes, averaging temperature measurements from approved stations within each box and by comparing the “anomaly” figures for each year it would be possible to establish a temperature “trend” for the entire earth's surface

There are many objections to this procedure. The greatest is that the original observations, which would have consisted of daily records carried out by many people in many places, appear to be lost. At least they are not publicly available. The MGSTAR cannot be checked by using the original observations.

Locations of weather stations are grossly unrepresentative of the earth's surface. They do not include the 71% that is ocean. Inclusion of sea surface temperatures have been made by the CRU<sup>14</sup> but these measurements are even less accurate than the surface measurements and Hansen at the Goddard Institute for Space Studies (GISS) and the other US system the Global Historical Climate Network (GHCN) have never accepted them.

Few people seem to understand how limited the actual temperature measurements made at weather stations are and under what conditions. The equipment has tended to include a Stevenson Screen, situated 2 meters or so above the ground, containing liquid-in-glass thermometers read only once a day. Some of the early readings are single figures, but most were of the maximum and the minimum figure. If read in the morning the maximum would be for the previous calendar day.

Until recently there has been no method for continuous measurement. The "mean daily temperature" that is the basis for the Hansen/CRU/GHCN temperature anomaly record has been the average of the daily maximum and minimum.

Surface temperatures at different times in any one place do not form a symmetrical sequence. The daytime temperatures are dependent on the sun and its changing elevation, but at night there is no sun and the temperature regime is entirely different. There is no definable average temperature for this skewed distribution

Even if there were an acceptable average, it cannot be related to the mean of a maximum and minimum, which is all we have of a "mean daily temperature". A study I made recently<sup>15</sup> compared the maximum/minimum mean with the 24 hourly mean for a summer and a winter day for 20 weather stations in New Zealand. I found that the difference between the two means could be as high as  $\pm 2^{\circ}\text{C}$ . This figure would be expected to be higher for places with a greater temperature variation and for many past temperatures.

The procedure adopted to obtain the MGSTAR calculates multiple simple arithmetic averages of distributions of figures that are not symmetrical, at every step. Each of these individual "mean daily temperatures" has to be averaged with all the others in the chosen box, then monthly, then yearly, then subtracted from the average figure for the whole lot, for a reference period. The figures for each box are then averaged to give the MGSTAR. The uncertainties for each of these processes are certainly very high, but they are ignored completely when compiling the MGSTAR.

D'Aleo and Watts<sup>16</sup> have recently provided a long list of sources of inaccuracy with surface temperature records. Watts has carried out a comprehensive survey of US weather stations which showed that 82% of them are incapable of measuring temperature to better than one or two degrees,

*It must surely be concluded that a "trend" of less than one degree in 100 years in the MGSTAR is far lower than the likely accuracy of the method and is therefore unreliable,*

It is interesting that in a discussion of the uncertainties in the CRU temperature anomaly record, Brohan et al<sup>17</sup> admit that there are "unknown unknowns" which they are unable to quantify, citing the well-known expert on this subject, Donald Rumsfeld.

The attempted simulation of the MGSTAR by the IPCC has difficulties beyond those related to the very low accuracy of the record itself. In the first draft of the 4<sup>th</sup> IPCC Report this simulation attempt occurred in Chapter 8 "Evaluation of Climate Models". This attempt included natural climate effects such as volcanic eruptions and changes in the Sun.

I commented that the simulation did not include the most important influences on the MGSTAR, which are the ocean oscillations and the urbanization influence around weather stations. I felt so strongly about this issue that I repeated it in an additional comment.

When the Report was finished<sup>3</sup> I was glad to see that my comment had been heeded and the attempt to simulate the MGSTAR had been removed from Chapter 8. I felt that I had made a useful contribution. But then, I found that it had been included in "Frequently Asked Questions No 8.1 and also in the Preliminary "Technical Report" where I had somehow escaped making comments. But my comment still stands. The simulation is defective.

It might be remarked that despite the evidence of very large "unknown unknowns" uncertainties in the MGSTAR, it does seem capable of responding to several of the more obvious natural influences on temperature, such as volcanic eruptions and ocean oscillations. The uncertainties do imply that the "trend" that has been found can be plausibly explained without a contribution from "greenhouse gas" emissions, from the many sources of upwards bias, such as urban effects on weather stations, ocean oscillations and changes in the number of participating stations

Other climate "data" are no better than temperature measurements. Rainfall and snow are more difficult to measure than temperature. Sea level is now more accurate, but its results are ignored<sup>19</sup>. Sunspots are an extremely crude system for estimating the activity of the Sun, The Southern Oscillation Index is measured extremely crudely as the difference in Air Pressure between Tahiti and Darwin. It is surely difficult to find any global climate sequence of sufficient accuracy to serve as a means of validating climate models.

The technique of seeking the opinions of experts runs into the problem of conflict of interest, since most of these "experts" would lose income and status if their models were not given a high level of "confidence" "likelihood" or "probability". Independent "experts" are never consulted

It must surely be concluded that the public perception that the globe is warming and that this is caused by increased emissions of "greenhouse gases" has no scientific basis, neither from its non compliance with the requirements of the scientific method nor even after accepting the departures from the use of the scientific method currently practiced by the IPCC.

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