

1081 Fall River Drive
Estes Park, CO 80517
December, 2006

Dear Friend of Sensible Science:

Thank you for your interest in more information on Global Warming. This comes as a gift to you in the hopes that you will consider all sides of issues supported by "Scientific Facts". Recent changes in temperature are not new and if we look at the recent past we can see that these changes are normal. Examination of the total Global Surface temperature records show that there was a decrease in the years between 1855 and 1860, an increase between 1860 and 1880, a decrease between 1880 and 1910, an increase between 1910 and 1942, a decrease between 1942 and 1950, a variable period between 1950 and 1978, a rise between 1978 and 1998 and finally another decrease from 1998 to 2005.

Thus we have irregular sequences in our climate observations and you can see almost any trend you want to see, if you start at the right point in time. For example, during the early 1970's and a few years before, the temperatures were dropping and Scientists at the Atmospheric Research facility in Colorado reported that we were in the start of a Global Cooling period. The media quickly jumped on the bandwagon and told us about the coming disaster. For example, a *Newsweek* article on April 28, 1975 warned of the dire effects of these falling temperatures. "*Food production will fall drastically and the resulting famines will be catastrophic!*" Others reported: "*We are about 1/6th of the way towards an Ice Age. And we should cover the polar ice caps with soot to promote melting.*" The Media cried that: "*The longer we delay action the more difficult it will be to cope with the climate change before it becomes a chilling grim reality.*" Does this sound familiar? *Newsweek* and others now telling us the same thing about Global Warming! However, once again, the climate changed as we entered the 1980's and it will continue to change throughout the future history of our planet.

You will continue to hear that carbon dioxide is causing Global Warming. Also, because of the carbon dioxide, the computer models predict very high temperatures. And close examination of the world's surface temperature records indicate that there has been a gradual increase in the average temperature of a little less than one degree Fahrenheit since 1900. We also had an increase in carbon dioxide during that time period. The computer models used today would predict a much larger increase in temperature from the increase in carbon dioxide than the very minor increase we have experienced. Too many questions still remain. Is an increase in carbon dioxide a benefit or a problem? Will the temperature increase more? How much? Did the increase in carbon dioxide cause the one degree increase in temperature or did the carbon dioxide increase because of the increase in temperature? What action should be taken? Would any action have an effect? What if the action has the opposite effect? Is warmer beneficial or is it a crisis? What about the developing countries? Can anyone control carbon dioxide emissions from the billions of people in China and India? And on and on!

I hope the information is interesting and please remember that the world will not end because of the scare tactics from the media!

Sincerely,

Mack W. Hunt

IS GLOBAL WARMING REAL

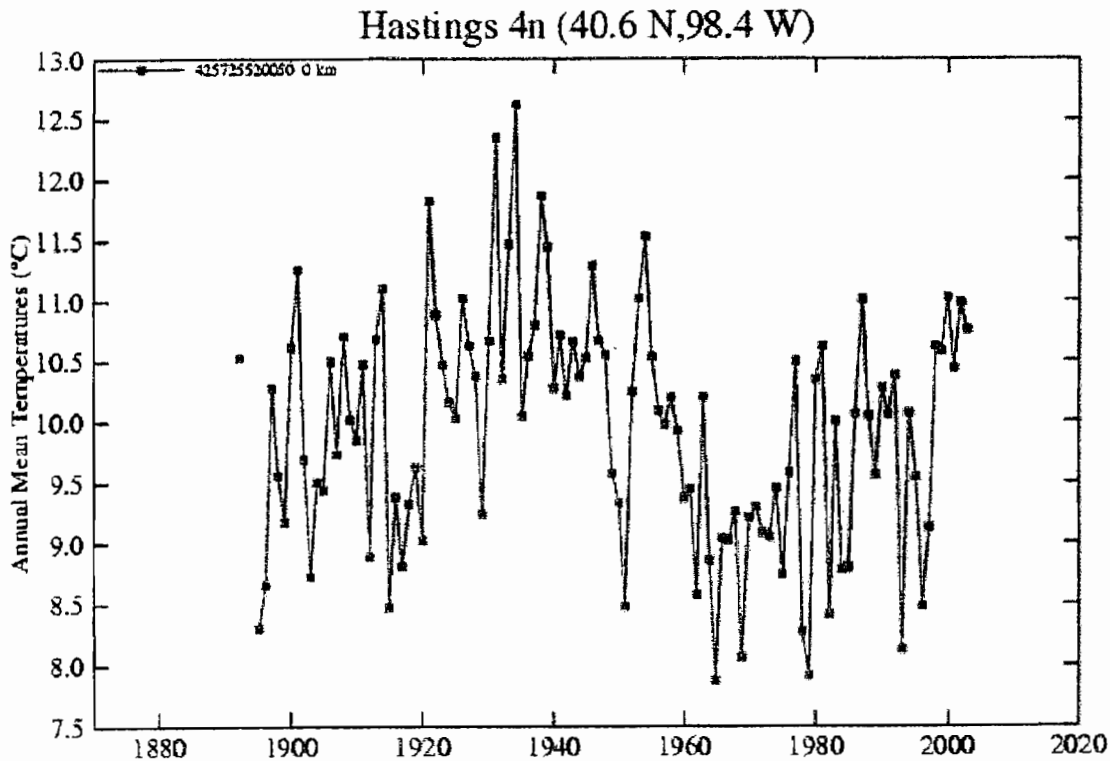
OR IS IT

ANOTHER MASS MEDIA EVENT?

INTRODUCTION

I was born in May in the early thirties and during one of the warmest years on record. My mom told me many times that the temperature in the delivery room was 108 degrees. The outside temperature was not much better and that was hot for Hastings, Nebraska. My mom and my grandmother told me about how hot it was in '33, '34 etc. That area of Nebraska set records that have never been exceeded for consecutive days of temperatures above 100 degrees. While still very young, I can remember the dust bowl days. The southern and southwestern skies were a dirty red and my mom said that that was the wind blowing all of the Oklahoma soil to Nebraska. Today, they say that we are experiencing Global Warming. Since I have experienced much warmer time periods in my recent history, I decided to look at the temperature records of Hastings to see how they compare with today's readings.

I will try to be factual and start by looking at the actual temperature records for Hastings, Nebraska from about 1890 to about 2002 as reported by The Goddard Institute at Columbia University and NASA:



The above shows some very interesting data. The warmest period in this part of Nebraska was during the 1930's and that there is a downward slope for the temperature records since then! This was intriguing, because I thought that Global Warming was everywhere including the middle of Nebraska. So I proceeded to look into the Warming situation to find out for my self. Maybe there are a multitude of variables and places to examine before a trend is established.

I have been a research scientist all of my adult live and I have been puzzled about the campaign to convince the world that Global Warming was underway and it is caused by mankind producing "Greenhouse Gases". To have real success in a scientific investigation, you must describe all of the evidence regardless of how you personally feel about the question or investigation. You must always explain equally what is good about your evidence and also what is questionable about your data. I am not sure that this has been done. It appears to me that the Global Warming scientists have ceased to act objectively and have presented only one side. It is kind of like the fox running the hen house.

It is sad but true, that people have the wrong idea about scientific journals, when they think the information has been checked by peers. Thus when politicians use scientific research for policy making, they assume that when an article is published in a peer-reviewed journal it means someone checked the data, checked the calculations and checked that the conclusions are supported by the evidence presented. However, peer review does NOT guarantee any of this. Influential papers in climate research can go for many years with out the data or methods even being disclosed, let alone independently checked. Recently, the *Wall Street Journal* tried to obtain supporting evidence for the conclusions reported in *Civil Defense Perspectives* in their January 2004 issue on rapid increases in temperature. However, the authors told the *Journal* NO because that would be "giving into intimidation". Everyone wants on the band wagon of "*Global Salvationism*".

The media has been an ally of these Global Warming alarmists. For example, the cover story on an issue of *Time* states: "Climate Change Doomsday Ahead". The cover of *Newsweek* shouts: "Abrupt Climate Change-A New Scandal for the Administration?". Is it really George Bush's fault!? *The Economist* states: "Climate Change rears Its Ugly Head". There are others in Europe that are even stronger. This is totally understandable because of the well known observation that good news or no news does not sell newspapers. Radio and television are also simply joining the group that there is Global Warming and that we are the cause of the problem. Thus they have all touted the cry that a global catastrophe will occur very soon. One should examine these articles by the Global Alarmists. Each article is loaded with words such as "if", "might", "modeled", "projected", "may", "should", "could", "perhaps", "probably" and other means of hedging. In all of these articles there has not been any demand or requirement for scientific accuracy or accountability.

The reason that there is no voice on the other side is simple. Follow the money! The Global Warming movement has become a multi-billion dollar enterprise with thousands of jobs and millions of dollars for Global Circulation Models (GCM), think tanks, top jobs, large prizes for scientists and huge Mass Media coverage of predictions of disaster.

Missing in all of the discussions in the Mass Media are any other factors that can cause Global Climate changes. They seem to be locked in to the Greenhouse Gas theory and have not investigated other known causes. First of all the primary cause of climate change is the cyclical eccentricities in the Earth's rotation and orbit, as well as fluctuations in the sun's energy output.

The three major causes of shifts in Global Temperature have all been verified and proven by scientific studies and history in a number of different countries. The causes of our temperature changes are:

I. Astronomical Causes of Climate Change

- A. Solar variability or sunspot activity occurs in 11 year and 206 year cycles.
- B. The earth's combined tilt and elliptical orbit around the sun is in cycles of 21,000 years.
- C. There is a wobble in the earth's orbit causing a tilt by + or - 1.5 degrees every 41,000 years.
- D. There has been a variation in the shape of the earth's elliptical orbit every 100,000 years.

II. Atmospheric Causes of Climate Change

- A. One cause is the so-called greenhouse effect which is mostly caused by water vapor but aided by methane, carbon dioxide, nitrous oxide and a few other miscellaneous gases.
- B. Solar rays can be reflected by white clouds, volcanic dust, polar ice caps, etc. This would cause a cooling effect.

III. Tectonic Causes of Climate Change

- A. Shifting continents or continental drift can cause changes in circulatory patterns of ocean currents which can cause warming or cooling.

B. The under sea activity will cause variations in ocean displacement giving weather variations.

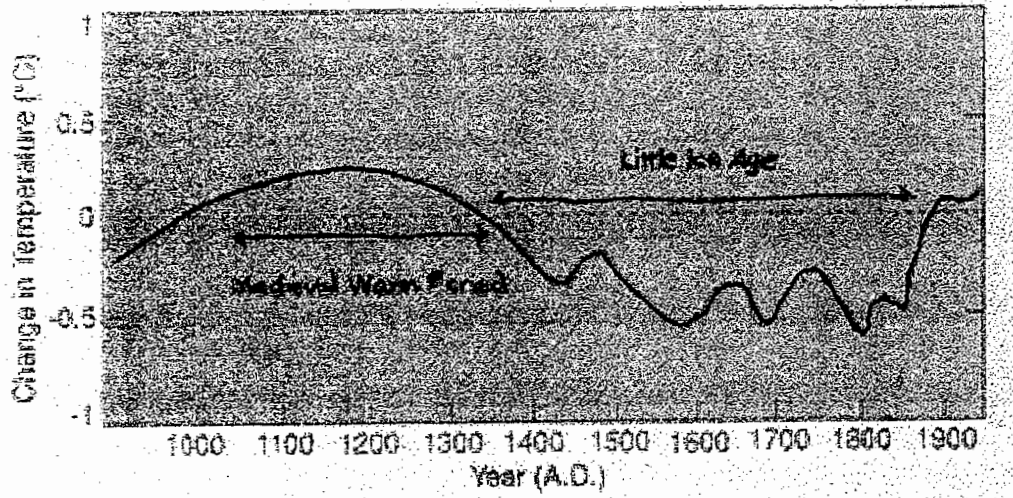
These causes of temperature shifts and cycles are the result of a complex interplay between the items listed above. Many times these events overlap which can compound the effect or even cancel each other out. Thus you cannot develop a statistically accurate trend in climate or temperature change from a few years or even a few decades of observations.

Good old mother earth is about 5 billion years old and has been constantly changing throughout it's existence. Science has taught us that for the last 700,000 years the earth has experienced a geological ice age with advancing and retreating glacial ice. Ice has covered the planet every 100,000 years during this time period accompanied by smaller ice advances about every 20,000 years. Looking at the past history, we are due for another mini-ice age. That would simply sell more newspapers and the entire media would love it. Who would they blame this time (if Bush is out of office) for this natural occurrence?

Our planet is still very active in spite of it's 5 billion years. So let's look at the past history on this place we call home. In any given year, we have over 500 active volcanoes and some kind of an eruption occurs every 2 weeks. Earthquakes are constantly occurring around the earth and the climatology lab in Boulder, Colorado records about 1,500,000 each year. This includes a moderate quake of about 5 on the Richter scale every 6 hours and a major destructive Earthquake every 10 days. For years, Tsunamis have raced across the Pacific Ocean about every 3 months.

Years and years of weather records indicate that our climate is as violent as the above mentioned planet activity and there is absolutely no data indicating an increase in violent weather activity, regardless of what the Mass Media says. Weather violence is normal and at any one moment in time, there are over 1,500 electrical storms taking place around the earth. This results in eleven lightning bolts hitting the ground every second. History shows us that a tornado rages somewhere on the surface of the planet every 6 hours. Every 4 days somewhere there is a hurricane or violent cyclonic storm spinning over the Oceans which will cause damage on land. We cannot and will never be able to control this violent weather nor can we ever be able to control the volcanic or quake activity. Many people and all of the media blame these phenomena and other planet changes or activities on the actions of mankind. Not only do they blame mankind, but claim that we can stabilize the weather. This is simply arrogant PRATTLE. We cannot control our environment through litigation or legislation any more than we can control Continental Drift. In all of this debate, we must remember that we have been in a slight, natural warming trend that began in about 1850 as we

emerged from a 400 year cold spell known as the "Little Ice Age". Please note also that the medieval warm period was much warmer than it is today. Greenland was green, vineyards flourished in England, etc. One thing we do know is that Mankind had nothing to do with the beginning or the end of this little ice age cold period nor were they responsible for the medieval warm period. Nature did it's thing! This is seen in the following graph:



This is almost a true scientific paper. It will examine the other side with some of the pro data mixed in and it will try to document all of the information. It will look at a variety of different data and information that should be considered in this debate, which is not provided by the Mass Media.

In early 1992, the United Nations Intergovernmental Panel on Climate Change (the UN-IPCC) produced a report to provide a technical basis for a Framework Convention on Climate Change (FCCC). The UN then held a convention in Rio de Janeiro in June of 1992 with the objective of stabilizing greenhouse gas concentrations in the atmosphere. This meeting was followed up by other meetings for the same purpose called the Conference of Parties or COPs. The COP meeting (COP-1) in Berlin resulted in the 1995 UN-IPCC report stating tha excess anthropogenic (human) carbon dioxide influx into the atmosphere caused by excessive use of fossil fuels is responsible for and causing the discernible influences on the climate change. The UN-IPCC report also stated that some 2,700 "scientists" (types not defined nor reported) have reached a general consensus that mankind is responsible for Global Warming. Subsequent to that out cry, a petition in Oregon was signed by more than 17,000 atmospheric scientists questioning

those findings and their conclusions. It is important for us and the Mass Media to remember that a “consensus” does not provide any proof of scientific theory, concept or fact. Much more study should have been done before the world launched its campaign that the perceived warming was a scientific fact!

All of the predictions made by the Global Alarmists have used computer models to predict the disastrous future conditions in our climate. These models have not been tested for reliability and different models yield variations warming, etc. of about 600%. Statistically, this huge variation in results makes the interpretations simply meaningless. We must remember the comments on modeling by Wazssily Leontief who received the Nobel Prize for modeling. He stated that “The limits of models move from more to less plausible by really arbitrary assumptions and then move to elegantly demonstrated *irrelevant conclusions*”.

The Kyoto Protocol was actually the COP-3 meeting held in Kyoto, Japan. So let us examine the Kyoto Protocol since the US has been severely criticized for not signing this document. All over the earth the Mass Media shouted about the greed of the US and our Mass Media joined the chorus. It is difficult to understand the basis of the Kyoto Protocol, when the various climate models-German, British, American, Canadian, etc. are mutually inconsistent and disagree with each other by well over 600%. Not one of the models agrees with the actual climate observations. Also, what would the results of the Kyoto Protocol on the world temperature? This information is well known and the effect of the Kyoto Protocol would be to reduce warming by only 0.04 degrees Celsius in the year 2100. This data was derived from several sources including *Nature*, 22, October 2003: 395-741, IPCC (*Intergovernmental Panel on Climate Change*) Technical Analysis of Climate Change, Cambridge University Press, 1998, Lomborg in *The Skeptical Environmentalists*, Cambridge University Press, 2002, and others.

The year 2005 was a special year in the Kyoto tracking of global energy rationing and each party was supposed to have made demonstrated progress in achieving its commitments. What did we find in 2005? The results were reported by Dr. G. J. van der Lingen in the February 2006 issue of the *Newsletter of the Geological Society of New Zealand*. The agreement stated that emissions must be 5.2% below the 1990 level! However, emissions in most countries have increased significantly. Since 1990, New Zealand increased by 22%, Japan jumped by 18.9%, Europe, the big critic of the US position, increased by 16.4%, Canada by 23.6%, a whopping 46.9 % increase in Spain, 40.3% in Ireland, and the US was up by about 15% etc. These countries came to the conclusion that *The Kyoto treaty is economic suicide!*

The entire purpose of the Kyoto Protocol was to reduce the carbon dioxide emissions. So you must examine the facts concerning carbon dioxide to determine how deadly this material is to good old mother earth.

The current level of carbon dioxide in the atmosphere is about 368 parts per million. This is less than 0.04% of the total of all gases present. Compared to former geologic times, the earth's atmosphere is carbon dioxide impoverished and significantly lower than previous periods. This was demonstrated and proven by ice core data from the Soviet Station Vostok in Antarctica.

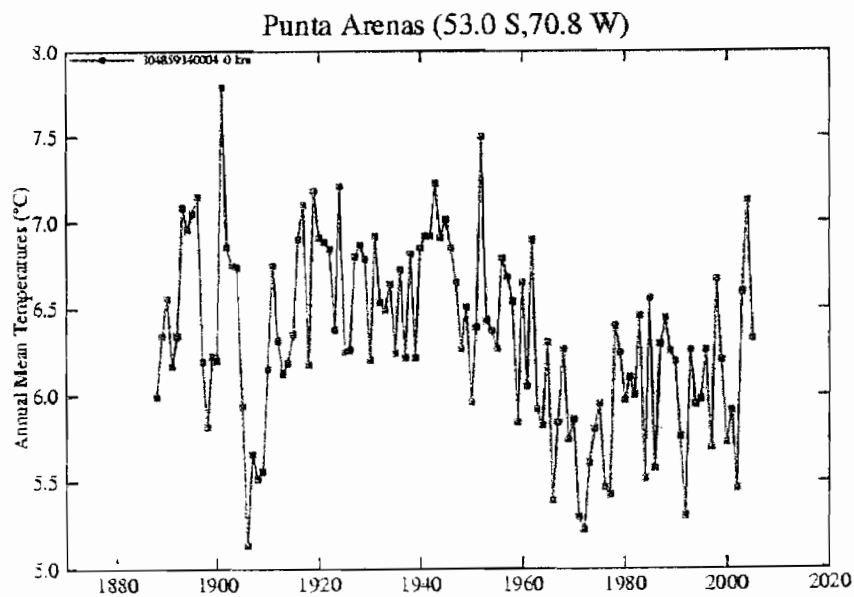
Carbon dioxide is odorless, tasteless and colorless and everyone knows that plants absorb carbon dioxide and emit oxygen as a waste. Carbon dioxide is a nutrient and not a pollutant and all living things, plants and animals, benefit from more of it. All life on earth is carbon based and carbon dioxide is absolutely essential ingredient for all living things. Plant growers have long known that to stimulate plant growth, they introduce more carbon dioxide into the plant's atmosphere. This stimulation has been noted in the Sahara desert. Aerial photos taken over a 25 year period have shown that the desert is getting smaller and is being replaced by more plant growth. The same thing is happening all around the Globe and increase plant growth is consuming more carbon dioxide and emitting oxygen. Is this good or bad?

Some have advocated going back to before the Industrial Revolution. If this was done, we would only drop the concentration of carbon dioxide in the atmosphere by about 25% of the current value or about 80 parts per million. This would cause a slight reduction of temperature but it would eliminate automobiles, trains, plane, electricity, washers dryers, etc. It would not be a very pleasant life style.

As mentioned before, other greenhouse gases are very important to the situation and should be examined. All of the greenhouse gases amount to about 2% of the total atmosphere and the major greenhouse gas is water vapor, which causes about 80% of the greenhouse effect on earth. The large amount of water vapor in the greenhouse gases is a very effective insulator and it is 50+ times greater than the effects of carbon dioxide. However, no one has suggested any attempt to reduce water vapor in the atmosphere, even though it would result in significant Global Cooling. Atmospheric water vapor needs more study and measurement to determine it's actual effect on world climate. These studies must then be included in the model studies as the major world insulator which can cause most of the Global Warming.

We constantly hear that all of the glaciers in the world are melting and that

we will all soon drown. Since a little over 90% of the ice and glaciers on the planet are in the Antarctic, it is very important to examine what is happening there. Remember that the Antarctic is huge and is more than one and a half times the size of North America. The Mass Media constantly reports the claim made by “Scientists” or “reliable scientific sources” that Antarctic is melting! This is because of the observations made in a region called the Antarctic Peninsula. This is a very small area of the Antarctic which scientists also tell us has been melting and calving icebergs off and on for over 6,000 years. We need to examine the entire continent and examine the facts to determine the total picture. If we do, we will find that the Antarctic is getting colder, the ice is becoming thicker and the total glacier mass is increasing. First of all the cooling was closely and clearly documented by Doran, et. Al. in Nature 415:517-520 in an article called “Antarctic Climate Cooling and Terrestrial Ecosystem Response”. In this 2004 paper, the authors showed that the central Antarctic valleys have cooled about 3 degrees Fahrenheit since 1986. The authors were concerned because they found that this drop in temperature has resulted in serious ecosystem damage. Comiso reported in the Journal of Climate: 1679-1696, that both satellite and ground station data show cooling over the past 20 years. There are other papers that have reported the observed cooling. Punta Arenas is a very important small city in Chile and located in the Strait of Magellan. The weather station in Punta Arenas is the closest weather station to the Antarctic. They have had a weather station there for many years and the famous explorers of the Antarctic in the 1880s and 1890s depended upon that station during their explorations. The temperature records from this important weather station show the following temperature record from the Goddard Institute and NASA:



Observations of the ice/glacier activity and increased growth have been reported by numerous scientific organizations. Joughin, et. Al. in *Science* 295: 476-480 recently reported the examination of the mass balance of West Antarctic using radar measurements from the past several years. These scientists concluded that the ice in this area of the Antarctic is increasing by about 26.8 giga tons per year. This report reverses the melting of the past 6,000 years in that area of the Antarctic. Parkinson observed in *Annals of Glaciology* 34: 435-440 the Antarctic ocean ice season from 1979 to 1999. During this observation period, he found that the sea-ice season increased each year and that it was 21 days longer in 1999 than it was in 1979. Liu, et. Al. substantiated this observation in *Geophysical Research* 31: 10.1029(2003). Vyas, et. Al. in the *International Journal of Remote Sensing* 24:2277-2287 reports that sea ice growth in the Antarctic is accelerating.

Now that we have examined 90% of the ice and glaciers on the earth, let's see what is happening in the rest of the world which contains only 10% of the remaining ice and glaciers. There are a significant number of glaciers in the world and science has shown that there are at least one hundred sixty thousand and of those glaciers, scientists have only examined about sixty five thousand. Or only 40%. However, even these examinations have not been studied as well as they should be. Greenland has almost 4% of the glaciers and ice in the world. All the others account for 6%. These include the glaciers and ice in Kilimanjaro, the Alps, the Himalayas, Argentina, Sweden, Alaska, California, Norway, Canada, Siberia, etc. Remember that 90% of the ice and glaciers are in the Antarctic where there are massive amounts of ice and in many of the places the ice is over six miles thick.

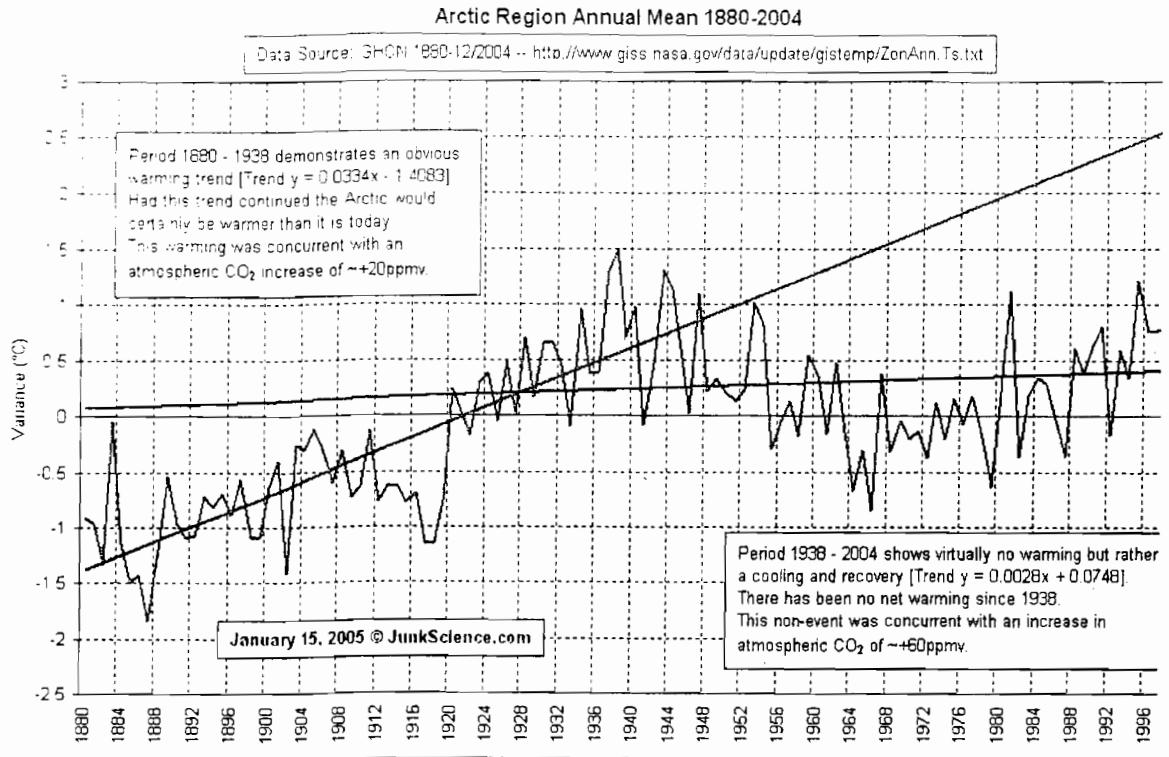
The widely publicized photos by Greenpeace showing the retreat of the Upsala Glacier in Argentina is an example of giving the public only part of the total story. Examination of the situation in Argentina shows that the information is totally ambiguous. The Upsala Glacier and six other glaciers descend from the South Andean ice field into the lake. Examination of the recorded history of these glaciers shows that the Upsala Glacier had retreated, however four other glaciers showed little or no change and one had advanced across the entire lake and was now in the Magellan peninsula. Another in the same Andean ice field has grown about 60% in the past eleven years. The cause of these differences is not Global Warming but due to local micro-conditions. This study was reported last year by S.A. Aiyar in *The Times of India*.

We hear a lot about Greenland because some have observed the calving of glaciers at a higher rate than normal. The Mass Media reported that there

has been a significant increase in earthquake activity in the glacier area of Greenland over the past few years, but they have not connected associated this observation with the loss of glaciers to the sea. So we must ask ourselves if the increased calving and sliding into the ocean is due to global warming or due to the increased earthquake activity in that area? We must also look at the atmospheric situation in Greenland. In the article in the journal of Climate Change 63: 201-221, Chylek et. Al. report that since 1940, Greenland has undergone a predominant cooling trend. There has been a cyclical change in Iceland where the first half of the 20th century was warmer than the second half. The Iceland scientists have reported that most glaciers loss significant mass in the 1930s because the summers warmed by an average of about 1.5 degrees Fahrenheit. But since about 1940, the climate has become colder and the glaciers have been steadily growing and advancing. They have already gained back more than half of the ground that was lost in the warm 1930s.

The snows of Kilimanjaro are well known and there is evidence that these glaciers are melting. However, records indicate that these glaciers have been melting since the 1800s which is significantly before the Global Warming Alarm. Also, they have been studied over these many years to determine the cause. The scientists have established that the problem is due to deforestation. The inhabitants of that region have cut down the rain forest at the base of the mountain and the air blowing upward is no longer moist and there is little snow or rain in the area of the glacier. Thus it is forced to retreat. Experts believe that if the forest were replanted, the glaciers would once again start to grow. All of this information was reported by Mason in Nature 24, November 2003. Kaser, et. Al. confirmed these findings in the International Journal of Climatology 24: (2004): 329-339. These studies simply point out the importance of close examination of all examples of glacier melting or changing.

The activity in the Arctic region (the North Pole) was analyzed and publicized by Steven Milloy and is available on FOXNews.com. See the Thursday, October 13, 2005 edition. Please note the following temperature records collected by The Goddard Institute and NASA. These records show that the Arctic generally warmed somewhat until about 1938. From about 1938 until about 1966 the Arctic cooled to about it's 1918 temperature levels. Then between about 1966 to about 2003, the Arctic warmed up just shy of it's 1938 temperature levels. Note that in 2004, the Arctic temperature spiked downward once again. The total result indicates that there has been no overall temperature change in the Arctic. This temperature record by responsible scientists is a direct contradiction of the reports that Global Warming is destroying the Arctic.



These articles by responsible technical research scientists indicate that the total situation in the Antarctic is confusing and this causes the alarmists to pick only the scenario they want to believe. Recent articles help to clarify or confuse the observer. The *Washington Post* reported on page one in their April 3rd of 2006 addition that the Antarctic Ice Sheet is Melting Rapidly and that a new study Warns of Rising Sea Levels. The article is based upon the March 24th issue of *Science* in 2006 which states that the world could be locked into an eventual sea level rise of over 20 feet! *Time* in it's April 3, 2006 states that "Nature has finally gotten a belly full of us". Will people ever get a Belly Full of the Mass Media?

There are some things going on in the Antarctic as was pointed out in the above articles. For example, the area that is melting is estimated to be losing 36 cubic miles of ice a year based on a trend of only 34 months. However, in the exact opposite of the continent there is a much larger ice sheet and it is reported to be gaining mass much faster than the other side of the continent is losing mass! These findings were reported in a *Science* article that appeared in the summer of 2005.

When we combine the happenings in the Antarctic with the apparent net loss

of ice mass in Greenland, scientists can now predict the rise in the sea level due to both observations. This gives a calculated rise in the sea level of only 0.5 mm/year and that the net change by the year 2100 is ZERO. So maybe the Mass Media is mistaken in their dire predictions that we will all drown soon.

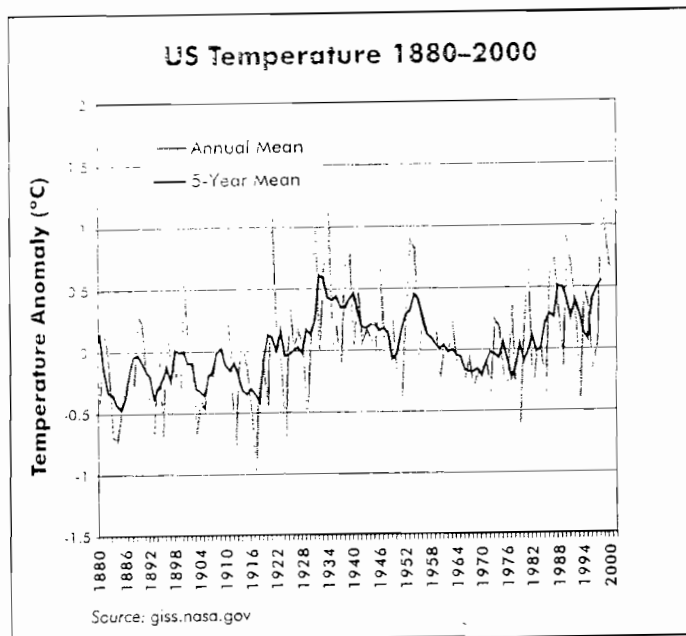
So now we must look at the overall situation. First of all the mass of Antarctic ice is not melting but is in fact growing. Also that the final or total effect of Greenland, Antarctic and other glacial phenomena is nil. The other articles on temperature trends indicate that the Antarctic is getting cooler. *Time Magazine* takes the exact opposite view. In their April 3rd 2006 issue, they claim that we are losing large masses of ice and this is very important because ice reflects the sun's rays. They predict the net result is further warming and disaster. But we can see that they are mistaken, based upon known experts. They have shown that the total effect is minor or none. Perhaps the "reliable scientific sources" in the Mass Media have an agenda different than the reported and verified scientific facts of the situation.

The "reliable scientific sources" have tried to combine trends from the past few years with reconstructions of the warming trend due to the change in the earth's orbit, which happened 130,000 years ago. Based on this data they conclude that urgent action is needed, lest ice sheets lose the ability to sustain themselves. Notably absent from their discussions and conclusions is any mention of the historically recent Medieval Warm Period which was not a result of mankind. See the graph on page 5.

Let's start with temperature records from across the US to see if there is really a catastrophic crisis.

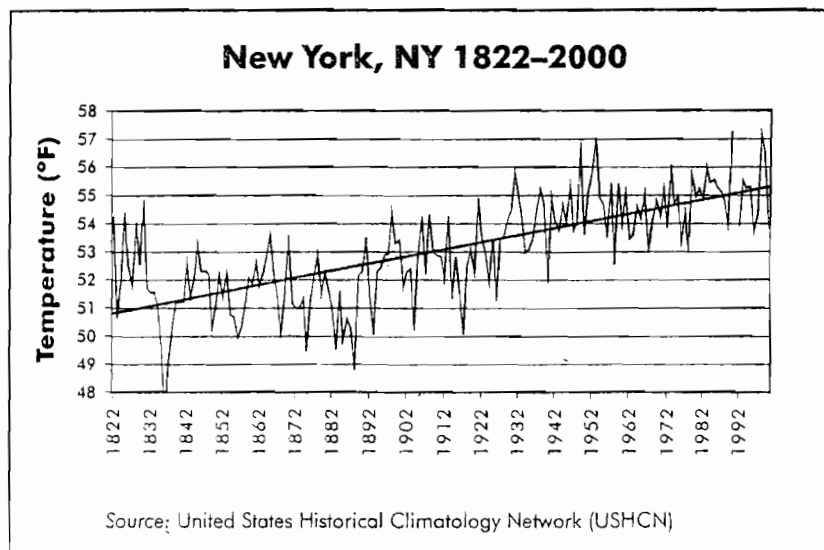
There are literally thousands of temperature records from around the world and they are available on the internet. There are a number of available sources that I have examined that study and record the temperature records of the US and the world. These include the Goddard Institute for Space Studies, the Global Historical Climatology Network, National Climatic Data Center, University of East Anglia, NASA, etc.

The following graph on the next page shows the mean average temperatures in the United States for the last 120 years:



If you will examine the graph closely, you will note that the change in temperature from 1880 to 2000 was only about a third of one degree Celsius. This is not very dramatic. Now examine the graph to determine the warmest year in the last 120 years. You will find that the warmest year was 1934! In addition, note the cooling and downward trend after the thirties. Then there was a warming trend and the temperatures in the US are almost identical with those we experienced in the thirties. These are naturally occurring micro conditions, changes and variations in our climate due to the many factors mentioned previously.

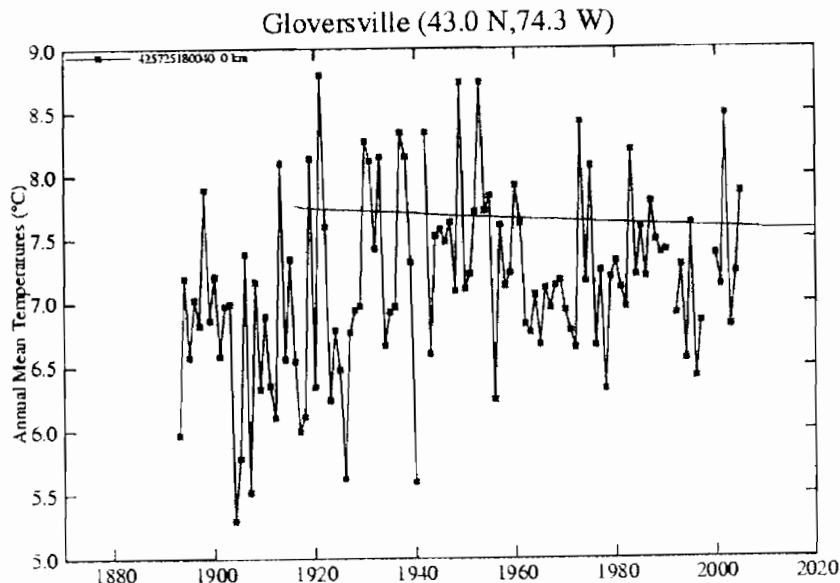
Now someone would say, "Wait a minute, I have seen published temperature graphs in places like New York city that show *real* Global Warming". They would be correct in that New York is warmer and the following shows the temperature records from 1812 to 2000:



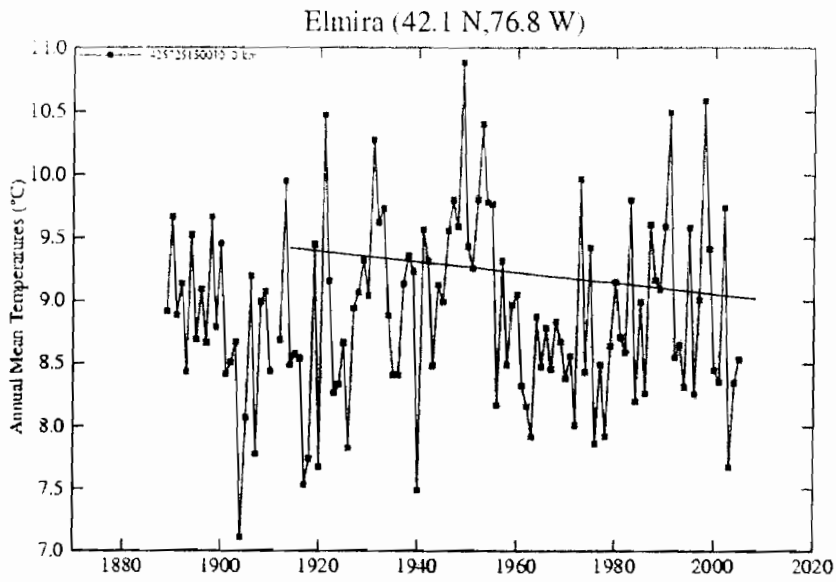
Since New York city has good average temperature records that go back to 1815 we will find out that there has been a 5 (five) degree Fahrenheit increase from 1815 to 2000. However, a good scientist must examine other possibilities. Consider that the population of New York city in 1815 was only 120,000 and today the population is over 8,000,000! In other words, the city has grown by 6,000 % since 1815. The question now is: is New York City hotter because of the small increase in carbon dioxide or because of the growth of skyscrapers, asphalt road ways, air conditioning, people, etc.? The climatologists have a term they use for this phenomena and they call it the "heat island effect" caused by city growth.

Now let us look at some other areas in New York state to try and establish a trend. You might be surprised to find that from Oswego to Albany, the areas have become cooler since 1930. Below is some data on other parts in other parts of upstate New York State. This temperature data for the United States comes from the United States Historical Climatology Network (USHCN) maintained at the National Climatic Data Center and the Carbon Dioxide Information and Analysis Center of Oak Ridge National Laboratory in Oak Ridge, Tennessee:

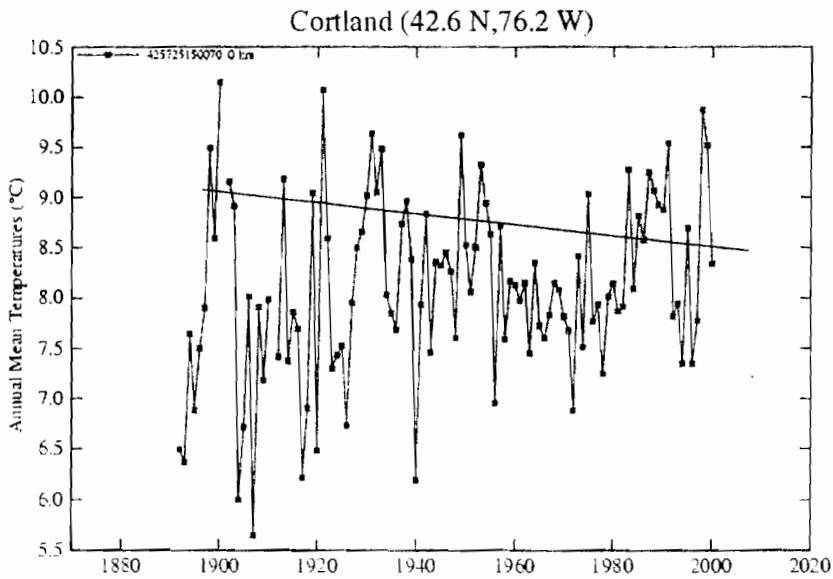
Gloversville, NY 1890-2004



ELMIRA, NY 1890-2003

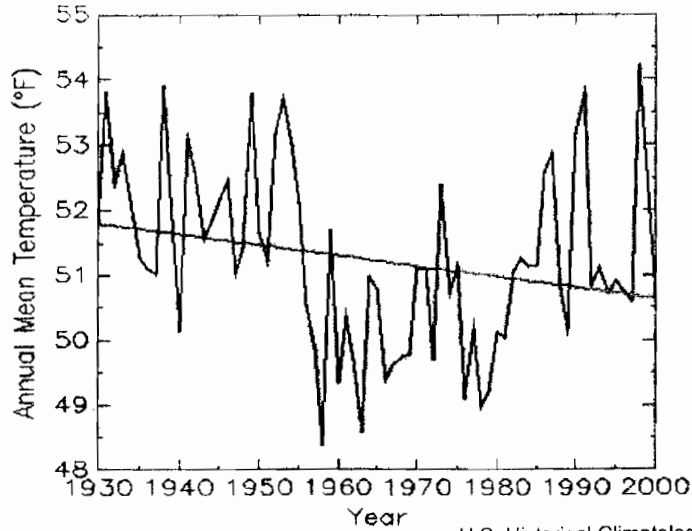


Cortland, NY 1890-2002



We have seen and discussed warmer micro-conditions, but certain areas of Ohio show a definite trend towards *Global Cooling*:

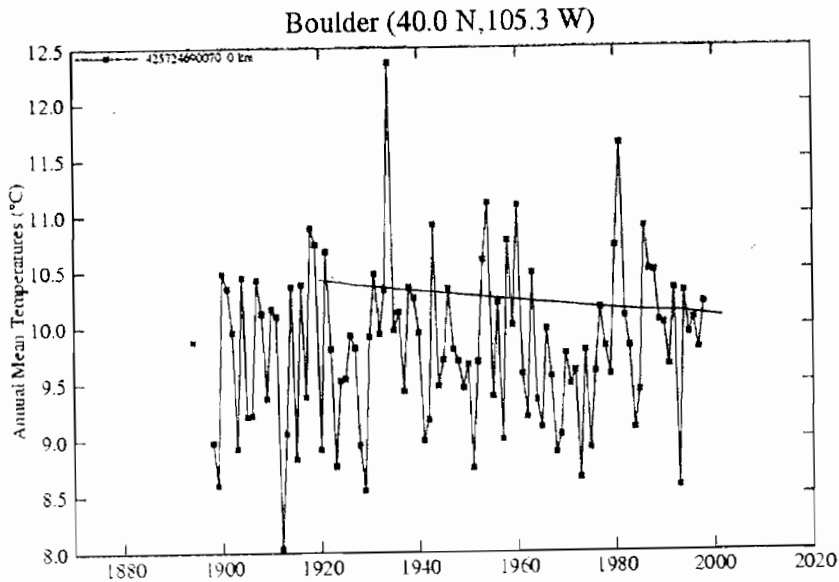
COSHOCTON, OH 1930-2000



U.S. Historical Climatology Network Data Set (USHCN)

Other cities in the United States from USHCN, show various trends. Some trend higher, some lower and many are flat. For example, St. Louis, MO is flat but Columbia, MO is lower. There is no definite trend for the US as a whole. Please see the USHCN web site for more information.

Here is the temperature profile for Boulder Colorado, home of the Atmospheric Research Center. Note the downward slope of the temperature records. Perhaps this is why they predicted *Global Cooling* in the 1970s.

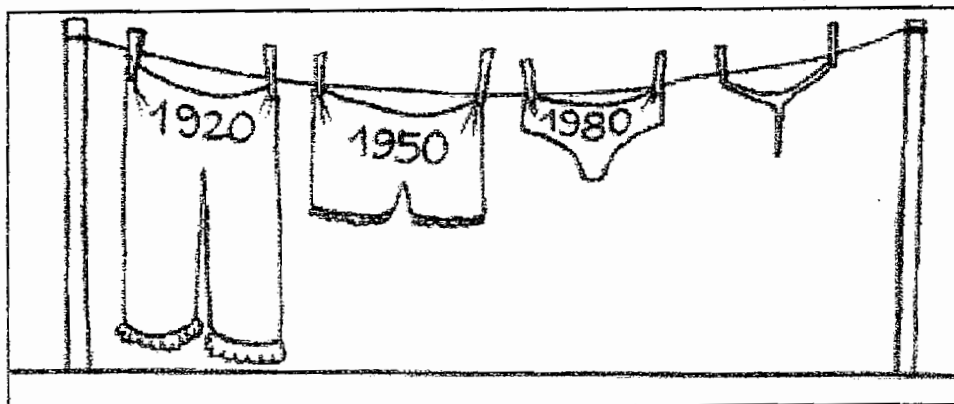


There are many similar examples of cities world wide with slight warming trends, slight cooling trends and some with no change at all. Alice Springs in Australia from 1879 to 2003 is absolutely flat. Christchurch, New Zealand shows an increase of about 0.1 degree Celsius from 1864 to 2003. Paris shows a decrease of about 0.3 degrees Celsius from 1757 to 1999. Others include Milan with a downward trend, Stuttgart trending downward, Tokyo an upward trend, Goeteborg Sweden is flat, Rome is flat, Clyde in northern Canada is sharply downward, etc. This data is available from the Goddard Institute at Columbia University on line. For further information on any city in the world, please examine this site.

Perhaps Global Warming is not yet an established fact of life on earth. Should we now be concerned about Global Cooling? Remember that there was a big scare by Mass Media that Global Cooling was underway in the 1970s. This scare was initiated by the Atmospheric Research Center in Boulder. However they have recently jumped on the Global Warming Bandwagon. Now it seems that others are now jumping on the Global Cooling Bandwagon. Dr. Bob Carter who is engaged in paleoclimatic research at James Cook University in Queensland reported in the *Sunday Telegraph* of April 9, 2006 that "warming" stopped in 1998 and that cooling has begun.

Khabibula Absudamatov, a climate expert at the Russian Sciences Academy was quoted in MOSNEWS.com on February 6, 2006 concerning impending Global Cooling. He stated that a Global Cooling cycle will start in the year 2012 and it will be due to normal fluctuation of the sun's radiation. He said that this will lead to a time period similar to that of 1645-1705. During this cooling period, the canals froze in Holland, settlements in Greenland and Iceland were abandoned because of glacier growth and all of Europe and the US were in a deep freeze. There are others who also believe that Global Cooling will begin very soon. Who is right?

Perhaps the Mass Media has found the final proof of Global Warming with their publication of the following important *scientific* finding:



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