Do We Have A Climate Crisis?

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Climate change over the past 1000 years as shown by the IPCC







imate change over the past 1000 years as shown by the iPC

Climate Crisis?

- Biblical Mandate
- The Global Warming (GW)/CC Claims
- Actual Climate Change (CC) Facts
- Greenhouse Effect
- Greenhouse Gases



IPCC

- **UN IPCC (Intergovernmental** Panel on **CC**)
- NIPCC (Nongovernmental International Panel on CC)
- Consider 16 Issues
- Summary
- Conclusions

Nongovernmental International Panel on Climate Change



Biblical Mandate

- Be fruitful and multiply and fill the earth and subdue it, and have dominion over the fish of the sea and over the birds of the heavens and over every living thing that moves on the earth. Gen. 1:28
- While the earth remains, seedtime and harvest, cold and heat, summer and winter, day and night, shall not cease. Gen. 8:22
- But test everything; hold fast what is good. 1 Th. 5:21



The Manmade GW Claims

Predicted by the UN IPCC

- Real & human-caused
- +5 degrees C by 2100
- Arctic ice cap disappearing
- Polar bear population will decline
- Sea level will rise by 88+ cm in 2100
- Increased drought, extreme weather, more storms
- Most significant threat to mankind
- Must act NOW!
- What is the Reality?



"Before this century is over, billions of us will die ... " James Lovelock, scientist

Global Warming Projections



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The Changing UN IPCC Reports

Climate change over the past 1000 years as shown by the IPCC



2001 IPCC report



Hockey Stick Chart





MIT Researchers Slam GW Data



Reported on July 15, 2017

UK MET Climate Fraud in 2002



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NASA US Temperature, 1999-2019



US Temperatures, 1999-2017



2018-07 Temperatures - Average



No Global Warming For 19 Years



Global Cooling (GC) -> Global Warming (GW)?

GC alarmists – Gov. Brown, Dr. John Holdren, Dr. Paul Ehrlich GW alarmists – Gov. Brown Jr., Dr. John Holdren, Al Gore



Global Cooling? Global Warming?

Gov. Jerry Brown's <u>1977 Global Cooling</u> BS, Recycled As Gov. Jerry Brown, Jr's <u>2014 Global Warming</u> BS Posted on July 30, 2014

The New York Times

TUESDAY, MARCH 8, 1977

Brown Warns of Drought Disaster; Says 'Hard Choices' Face California

In 1977, Governor Brown warned that California was facing an unprecedented drought, blamed at the time on Global Cooling



"The entire North 'polarized' cap will disappear in 5 years." -Al Gore, 2008



North Pole Ice Cap August, 2013



Anthropogenic Contribution

Anthropogenic (man-made) Contribution to the "Greenhouse Effect," expressed as % of Total (water vapor INCLUDED)

Based on concentrations (ppb) adjusted for heat retention characteristics	% of All Greenhouse Gases	% Natural	% Man- made
Water vapor	95.000%	94.999%	0.001%
Carbon Dioxide (CO2)	3.618%	3.502%	0.117%
Methane (CH4)	0.360%	0.294%	0.066%
Nitrous Oxide (N2O)	0.950%	0.903%	0.047%
Misc. gases (CFC's, etc.)	0.072%	0.025%	0.047%
Total	100.00%	99.72	0.28%

Greenhouse Gases (with Water Vapor)



Human contribution to greenhouse effect = 0.28%

Greenhouse Gases (no Water Vapor)



Natural & Manmade Sources



Man-made CO2 contributions cause only about 0.117% of Earth's greenhouse effect, (factoring in water vapor). This is insignificant!

Issue #1

Climate Always Changing

Last Thousand Years in Europe



Mean Relative Temperature History



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Issue #2

CO2 Is Required For Life CO2 Increases Food Production CO2 is Not a Pollutant

Growth and Increased CO2





Issue #3

The Science is Not Settled

Botched Predictions for 2015

- Predictions by Dr. Paul Ehrlich, Dr. John
 Holdren [Obama's Science Advisor], the UN
 - Made in **1970's** and **1980's** about **Global Cooling**
- All came to naught:
 - UN overestimated GW by 2015
 - All Rainforest Species Will Be Extinct
 - Oil will run out by 2015
 - Arctic sea ice will disappear by 2015
 - Looking to the future: A billion people could die from climate change by 2020
 - **Holdren in 1971**: "new ice age likely"

Actual CC Pronouncements



Historic Temperature Record Shows Warming of About 0.6C



2000 Years of Global Temperatures



Temperature Change:1000-1900 AD


Global Temperature Changes, 1860 - 2000



Global Temperature Anomaly



30-Year Cooling in Mid-Century







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Temperature Stripes, 1850-2018





NIPCC

Nongovernmental International Panel on Climate Change



- Nongovernment scientists and scholars
- Peer reviewed technical papers
- Annual Climate Change conference
- Published reports
 - Nature, Not Human Activity, Rules the Climate
 - Climate Change Reconsidered I and II
 - Scientific Critique of IPCC's 'Summary for Policymakers
 - Why Scientists Disagree About GW (2nd Edition)

Second Edition of NIPCC Book

Why Scientists Disagree About Global Warming

The NIPCC Report on Scientific Consensus

NIPCC Key Findings

- No consensus
- Why scientists disagree
- Scientific method vs. political science
- Flawed projects
- False postulates
- Unreliable circumstantial evidence
- Policy implications

Specific Claims in WA Senate Bill 5802: Refuted by Easterbrook (Climate Scientist)

- 1. Emissions of greenhouse gases from human activities is the principal cause of climate change.
- 2. Sea level is rising at an increasing rate because of GW
- 3. The frequency of severe storms is increasing because of GW
- 4. Reduced winter snow packs and decreased summer streamflows
- 5. Increasing acidification of the state's marine waters
- 6. Produce more electricity from renewable energy while phasing out coal-powered electricity generation

Issue #4

CO2 Cannot Drive Global Warming

Possible Global Warming Causes

- 1. Increased **CO2** in atmosphere?
 - Insignificant GHG, follows GW
- 2. GW by Sunspots Only?
 - Influence too small by themselves
- 3. Solar Irradiance? ← Most Likely!
 - Cloud Cover increase -> Cooling
 - Galatial Cosmic Radiation (GCR)
- 4. Pacific Decadal Oscillation (PDO)?
 - Occurs every 30 years in North Pacific Ocean

1. Evidence for GW by CO2?

- The greenhouse gas signature missing 61"
 - No telltale "hotspot" warming pattern
- Vostoc ice cores do not show CO2 pushing up temperatures
 - Increased temperatures 800 years before CO2
- Temperatures are not rising





- Since 1999 temperatures have been flat
- CO2 already doing almost all the warming it can do
 - Twice the CO2 does not make twice the difference

The Skeptic's Handbook, Joanne Nova 2009

Actual Climate Change Facts CO2 in Atmosphere Insignificant





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Atmospheric CO2 (Mauna Loa)



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CO2 Growth Rate at Mauna Loa



Issue #5

Total Solar Irradiation (TSI) Can Cause Significant Fluctuations in the Climate

2. GW by Sunspots Only?

Temperature, CO₂, and Sunspots



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Temperature Correlation With Sun



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3. Total Solar Irradiance?

The following charts show clearly that climate change seems to be directly correlated to Solar Irradiance, rather than CO₂, as the "Global Warming Crisis" alarmist crowd would have you think.



Modified from Soon, 2004

Solar Irradiance/Sunspots & Glaciers



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Svensmark's GCR Theory **Active Sun Inactive Sun** High cosmic rays **More clouds Cool earth**



Low cosmic rays Fewer clouds Hot earth



Cloud Experiment Supports GW Theory, Dr. Larry Vardiman @ Dr. Heinz Lycklama

Solar Cycles Combined





Daily Sunspot Number



Sunspots Decreasing in Strength





Monthly solar sunspot number



Issue #6

Pacific Decadal Oscillations (PDO) Can Cause Significant Fluctuations in the Climate

4. Pacific Decadal Oscillation (PDO)





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PDO – Key to the GW Debate?



 Switch between two circulation patterns every 30 years in North Pacific Ocean
 ENSO – El Nino Southern Oscillation every few years of tropical Pacific Ocean

Pacific Ocean Oscillations

Pacific Decadal Oscillation



Ocean Warming Minimal


Full Implementation of the Paris Climate Agreement Would Have Almost No Effect on the Climate, Even by 2100

Paris Climate Agreement

- Work of the UN Framework Convention on CC
- Deals with Green House Gas emissions mitigation, adaptation and finance
- Adopted on December 12, 2015
- Start planned for 2020
- Signed by 195 nations, ratified by 144
 - Implementation implications
 - Prevent 0.306 degrees Fahrenheit of GW by 2100
 - At a cost of \$65 to \$132 Trillion, 2030 to 2100

COP21 final deal: Key points...



SIX KEY POINTS OF THE PARIS CLIMATE AGREEMENT

The 31-page document that details a landmark agreement reached in Paris on 12 December 2015 could be a turning point in the struggle to contain global warming. The historic pact, approved by 195 countries, will take effect from 2020.



Source: UNEP, Global Trends in Renewable Energy Investment 2015

Emissions Targets for USA & China

- The Obama administration agreed to an economy-wide target of reducing U.S. greenhouse gas (82% of which is carbon dioxide (CO_2)) emissions by 26%-28% below its 2005 level in 2025.
- China agreed "to achieve the peaking of CO_2 emissions around 2030" and to other measures such as those designed to increase the share of non-fossil fuels in primary energy consumption. Taking into consideration expected economic growth in China and other factors, their target translates into about a 70% *increase* above its 2005 level in 2025.

The UN IPCC Climate Models Are Not Realistic

Models & Estimates



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IPCC Change in Projections



Models vs. Observations



Global Temperature Deviation



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Surface Weather Stations Give Less Accurate (and Higher Average) Temperatures Than Satellite Measurements

Urban Heat Island Effect







Correlation of Average Temperature and Number of Surface Stations



Eliminated data from weather stations likely to show global cooling

Satellite-Based Temperature



Polar **Inconvenient Fact** Bears Thriving, Not Becoming Extinct

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1960's - 5,000 Polar Bears

Today - 25,000+ Polar Bears

CFACT.or

Sea Ice Level & Number of Polar Bears



Polar Bear Population	Estimates
1950s	5,000
1965-1970	8,000-10,000
1984	25,000
2005	20,000-25,000

Sources: New York Times; Covebear.com; International Bear Association; International Wildlife; IUCN, Polar Bear Study Group.

Catastrophe fails to materialize



Sea Levels Are Not Rising As Fast As Predicted

Sea Level Rise Projections

Sea level rise due to global warming



Source: Climate change 1995, The science of climate change, contribution of working group 1 to the second assessment report of the intergovernmental panel on climate change, UNEP and WMO, Cambridge university press, 1995; Sea level rise over the last century, adapted from Gormitz and Lebedelf, 1987.

Sea Level Unaffected by CO2



Sea Level Rise Reality

In the last 140 years, since 1880, we have increased CO2 by 38%, yet the predicted sea rise hasn't happened. Look at Wismar, Germany? Wismar sits on the Mecklenburg Bend, in the Baltic Sea. It is halfway between Norway and Sweden, and the Netherlands. Both Norway and Sweden are actually rising, and have been doing so since the last Glacial Maximum, as melting ice removed weight. So, people in Norway are saying, "Hey, sea levels are falling!" Well, no, their land is rising. Then on the other side, you have Holland and Belgium. Here, the land is in fact sinking. It's like a seesaw. Norway goes up, Holland goes down.

Past Sea Level Changes



Modeled and observed sea-level changes, 1840-2010. The pink curve, **Models**, represents the IPCC's combination of selected tide-gauge records and "corrected" satellite altimetry data. The blue curve, **Observations**, represents the observed sea level changes in the field up to 1960 according to Professor Mörner. After 1965, the two curves start to diverge, presenting two totally different views, separated by the orange region. Note the large discrepancy between prediction and reality.

Radical Effects of Global Adjustments on Sea Level Rise





Arctic Sea Ice Is Not Disappearing



ClimateHustle.com





Arctic Ice Cap Actual vs. Prediction



Sea Ice Thickness, 30-Sep-2019



Winter Temperatures near North Pole



Weather Extremes Are Not Increasing [drought, heatwaves, forest fires, tornadoes, hurricanes, snow level]

Drought 800 -> 2000 AD



Tony Heller @Tony_Heller · 5m

Replying to @RyanMaue

Ryan Maue gives in to superstition. Drought is the normal climate for California. The wet 20th century was the anomaly.

mercurynews.com/2014/01/30/gra...







A U.S. Annual Heat Wave Index



Actual Average Temperature



Average Maximum Temperature Vs. Year 1900-2018 At All US Historical Climatology Network Stations Red Line Is 5 Year Mean



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CRE.
U.S. Temperature, 1880-2000



US Average Percent Of Days Over 95F (35C)

At 1192 USHCN Stations





Frequency of U.S. Wildfires

US Forest Fire Count



US Forest Fire Burn Acreage



Figure 16-1. Total acreage burned.



2000 Years of Global Temperature



Temperature Data Manipulation

Fig. 2: Alteration of temperature data for the entire USA, 1920-1960 values were reduced, 1980 values increased:



United States Tornado Fatalities Number of Fatalities 2012 2008



US Tornadoes

Annual Count of US Tornadoes EF-3 and Stronger

1970 to 2015



2018 – Oklahoma record longest tornado drought ended 1 May



Strong to Violent Tornadoes (F3+) in the US, 1954 to 2018

Intense Hurricanes since 1880 by Decade (Cat 3,4,5 - http://www.nhc.noaa.gov/data/)



Extreme Weather?

Global Tropical Storm and Hurricane Frequency





Issue #14

UN IPCC Charter Limits It To Identifying Only Human Causes of Global Warming

UN IPCC Charter

The [Intergovernmental Panel on **Climate Change] IPCC's charter** climate change from the outset has been "to assess on a comprehensive, objective, open and transparent basis the scientific, technical and socio-economic information relevant to understanding the scientific basis of risk of human-induced climate change, its potential impacts and options for adaptation and mitigation. IPCC reports should be neutral with respect to policy. ... may need to deal objectively with scientific, technical and socio-economic factors relevant to the application of particular policies."

UN IPCC Reports

- Report #1 in 1990: Ignored satellite data (showed no warming)
- Report #2 in 1995: Significant alterations after approval by scientists

- Report #3 in 2001: Claimed 20th century showed "unusual warming"
- Report #4 in 2007: Completely devaluated climate changes in solar activity
- Report #5 in 2014: Confidence increased to 90-95% despite no global warming for 15 years

Issue #15

UN IPCC Officials Admit That Its Real Agenda Is To Redistribute Wealth

UN IPCC Reality



"We (UN-IPCC) redistribute de facto the world's wealth by climate policy..." "One has to free oneself from the illusion that international climate policy is environmental policy. This has almost nothing to do with environmental policy anymore..."

-Dr. Ottmar Endenhofer, IPCC co-chair of Working Group 3, November 13, 2010 interview [H/t Dr. Charles Battig]

Issue #16

The Alleged "97 Consensus of Scientists" Is Bogus

The 97% Claim – False!

"Probably the most widely repeated claim in the debate over global warming is that "<u>97 percent of scientists agree</u>" that climate change is man-made and dangerous. This claim is not only false, but its presence in the debate is an insult to science."



Why Scientists Disagree About GW, pg. 1 [Introduction].

"In May 2014, Secretary of State John Kerry warned graduating students at Boston College of the "crippling consequences" of climate change. "Ninety-seven percent of the world's scientists tell us this is urgent," he added (Kerry, 2014). Three days earlier, President Obama tweeted that "Ninety-seven percent of scientists agree: #climate change is real, man-made and dangerous" (Obama, 2014). What is the basis of these claims?"

Why Scientists Disagree About GW, pg. 8.

Consensus on Consensus – Cook, 2016

Studies into scientific agreement on human-caused global warming

TheConsensusProject.com

Why Scientists Disagree on GW, pg. 8ff

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Seven climate consensus studies

Oreskes 2004, Doran 2009,
 Anderegg 2010, Cook 2013,
 Verheggen 2014, Stenhouse 2014,
 Carlton 2015

Two key conclusions:

- 1) Depending on exactly how you measure the expert consensus, it's somewhere between 90% and 100% that agree humans are responsible for climate change, with most of our studies finding 97% consensus among publishing climate scientists.
- 2) The greater the climate expertise among those surveyed, the higher the consensus on humancaused global warming.

e.g. Doran Survey Bias

- Doran/Zimmerman 2009 two-question survey:
 - "Q1. When compared with pre-1800s levels, do you think that mean global temperatures have generally **<u>risen</u>**, fallen, or remained relatively constant?
 - Q2. Do you think human activity is a <u>significant</u> contributing factor in changing mean global temperatures?"
- Survey Sent to 10,257 Earth scientists
 - Limited to academic, government workers
 - Solar scientists & meteorologists excluded
 - Responses from 3,146
 - Q1 risen 90+
 - Q2 yes 82
- Survey results considered
 - 79 who listed climate science as their area of expertise, and 50%+ of recent papers on climate science
 - Asked wrong questions of wrong people



Why Scientists Disagree on GW, pg. 13-14

Doran GW Survey Results



Conclusions

Reasons Secular Scientists Think Earth's Climate is Unstable

- 1. Faulty computer climate models
 - Feedback positive or negative?
- 2. Fraudulent politicized research
 - Use of surface vs. satellite temperature measurements
 - Cherry-picked data
 - Manipulated data
- 3. Dependence on the Milankovitch theory

What News Media Isn't Telling You

- There has been <u>NO</u> Global Warming in 19 years
- Global Warming from 1978 to 1998 has been replaced by Global Cooling
- The Antarctic ice sheet is growing, not melting
- Sea level is rising 7" per century, not 20 ft.
- 4 of the past 5 years have set snowfall records
- CO2 <u>cannot</u> cause global warming
- Severe storms are not more frequent than normal
- The oceans are not acidic

What Should the Church Do About GW?

- Commit to viewing the world from God's perspective
- Understand and rely on Scripture as a foundation for life
- Use the Bible to understand the world and evaluate all problems
- Help inform other believers
- Promote the truth and oppose
 false beliefs with gentleness
 and respect



Gen. 8:22, While the earth remains, seedtime and harvest, cold and heat, summer and winter, day and night, shall not cease.

In Conclusion

- UN IPCC CC models have failed miserably
- No significant GW for the last 19 years
- Sea levels only increased 1.5 mm per decade
- Man-made causes are insufficient
 - CO2 component of atmosphere insufficient
- Natural causes of CC are more credible
 - Sun energy alone is insufficient
 - Cosmo radiance with sunspots can explain CC
 - Pacific Decadal Oscillation may explain CC
- Paris Climate Agreement <u>NOT</u> a solution for a <u>non-existent problem</u>

Climate Change is <u>NOT</u> a Crisis Let's Not Panic!

Thank you for your attention!

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- PhoenixClimatePresentation.ppt
- History of CC in Greenland (DVD)
- The Great GW Debate by Michael Oard (DVD)
- Global Warming by Coral Ridge (DVD)
- Articles by Dr. Larry Vardiman, Climate Scientist at ICR
 - Does CO2 Drive Global Warming?
 - A New Theory of Climate Change

More References

- The Great Global Warming Blunder, Dr. Roy Spencer
- The Skeptic's Handbook, Joanne Nova 2009
- Climate Change Reconsidered II Series (NIPCC)
 - Physical Science Full Report.
 - Physical Science Summary for Policymakers
 - Biological Impacts Full Report.
 - **Biological Impacts** Summary for Policymakers
- Nature, Not Human Activity, Rules the Climate (SEPP)
- Why Scientists Disagree About GW (NIPCC)

Water Vapor (H₂0)



CC Research Results



Climate Change Indicators



atmospheric greenhouse gas concentrations (Ch. 2: Climate, Box 2.2). This figure shows climate-relevant indicators of change

based on data collected across the United States. Upward-pointing arrows indicate an increasing trend; downward-pointing arrows indicate a decreasing trend. Bidirectional arrows (e.g., for drought conditions) indicate a lack of a definitive national trend.
Figure 1. U.S. Annual Heat Wave Index, 1895–2008

This figure shows the annual values of the U.S. Heat Wave Index from 1895 to 2008. These data cover the lower 48 states.



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Global Warming and Hurricanes

An Overview of Current Research Results

1. Has Global Warming Affected Hurricane or Tropical Cyclone Activity?

Geophysical Fluid Dynamics Laboratory/NOAA

Last Revised: Mar. 17, 2017

A. Summary Statement

Two frequently asked questions on global warming and hurricanes are the following:

- Have humans already caused a detectable increase in Atlantic hurricane activity or global tropical cyclone activity?
- What changes in hurricane activity are expected for the late 21st century, given the pronounced global warming scenarios from current IPCC models?

In this review, we address these questions in the context of published research findings. We will first present the main conclusions and then follow with some background discussion of the research that leads to these conclusions. The main conclusions are:

It is premature to conclude that human activities-and particularly

greenhouse gas emissions that cause global warming-have already had a detectable impact on Atlantic hurricane or global tropical cyclone activity. That said, human activities may have already caused changes that are not yet detectable due to the small magnitude of the changes or observational limitations, or are not yet confidently modeled (e.g., aerosol effects on regional climate).

- Anthropogenic warming by the end of the 21st century will likely cause tropical cyclones globally to be more intense on average (by 2 to 11% according to model projections for an IPCC A1B scenario). This change would imply an even larger percentage increase in the destructive potential per storm, assuming no reduction in storm size.
- There are better than even odds that anthropogenic warming over the next century will lead to an increase in the occurrence of very intense tropical cyclone in some basins-an increase that would be substantially larger in percentage terms than the 2-11% increase in the average storm intensity. This increase in intense storm occurrence is projected despite a likely decrease (or little change) in the global numbers of all tropical cyclones.
- Anthropogenic warming by the end of the 21st century will likely cause tropical cyclones to have substantially higher rainfall rates than present-day ones, with a model-projected increase of about 10-15% for rainfall rates averaged within about 100 km of the storm center.

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Related Links:

For more information and related research see:

- "Tropical Cyclones and Climate Change", an assessment by a World Meteorological Organization Expert Team on Climate Change Impacts on Tropical Cyclones. For more information on the expert team, see this WMO web page.
- Future projections of global tropical cyclone activity (J. Climate 2015).
- Future projections of intense Atlantic hurricanes (J. Climate 2013).
- Global models of hurricane frequency developed at GFDL.
- Historical changes in Atlantic hurricanes and tropical storms.
- GFDL's Hurricane Portal
- GFDL Hurricane simulationsanimations
- GFDL Climate Research Highlights web page.
- Hurricanes: Science and Society web page
- NOAA State of the Science Fact Sheet on "Atlantic Hurricanes, Climate Variability, and Global Warming" (May 2012)

Global Temperature Anomaly

Northern Hemispheric temperature reconstruction for the past 10,000+ years





Average Annual Global Surface Temperature Changes

The Greenhouse Effect

Some solar radiation is reflected by the earth and the atmosphere

Some of the infrared radiation passes through the atmosphere. Some is absorbed and re-emitted in all directions by greenhouse gas molecules. The effect of this is to warm the earth's surface and the lower atmosphere.

Most radiation is absorbed by the earth's surface and warms it

Atmosphere

Earth's Surface

Infrared radiation is emitted by the earth's surface



The (Atmospheric) Greenhouse Effect



The Greenhouse Effect

- What if there are no greenhouse gases? Infrared radiation would go straight back into outer space.
- Why is this bad?
- The Earth would be too cold, water would freeze and there would be no life.
- Greenhouse effect keeps Earth's temp around 59 degrees.
 - In time, the gases all end up back in outer space.



Greenhouse Effect





Carbon Dioxide (CO2)

Human contribution to greenhouse effect = 0.28%

Rather than 'tell a thousand words', this picture (graph) poses a simple question...



Correlation between the average (solid black line) of UN IPCC's global temperature predictions progressively decreases relative to real-world observations that increasingly diverge from 'Confidence Level' statements in past IPCC Assessment Reports (red arrows - 1989, 1995, 2000, 2007 & 2013).

'Certainty' increases whilst correlation 'decreases'!

Really?

How does that work?

For more information about the failure of Climate Models, follow this Link: http://bit.ly/failureofclimatemodels

A Picture tells a thousand words - Roy Spencer Graph.Doc

2000 Years of Global Temperatures



Sulfuric Acid Concentration



Figure 4. Nucleation rate for 1.7 nm (6.7 x 10⁸ inch) diameter cloud droplets as a function of sulfuric acid concentration, 38 percent relative humidity, and a pressure of 1 atmosphere. The chamber was maintained at a temperature of 292K (33.9°F) for the red curves, 278K (8.7°F) for the green curves, and 248K (-45.3°F) for the blue curves. The NH₃ mixing ratio corresponded to the contaminant level (<35 ppt, at 278 and 292K and <50 ppt, at 248K). Triangles are for charged nucleation rates (J_{ch}), filled circles for galactic cosmic radiation rates (J_{cCR}), and open circles for neutral rates (J_{m}). The error bars indicate the estimated total statistical and systematic 10 measurement uncertainties. The colored bands show the predictions from the PARNUC model for binary H₂SO₄—H₂O charged nucleation rates J_{ch} . (From Kirkby et al.⁷ Copyright 2011 Nature Publishing Group. Usage does not imply endorsement.)



STRATOSPHERIC RADIATION (MAR 2015 - JUNE 2017)







Sec. A

INACTIVE SUN High cosmic rays More clouds Cool earth

ACTIVE SUN Low cosmic rays Fewer clouds Hot earth

Svensmark's GCR Theory



Figure 1. Cartoon showing effects of an active sun on the temperature of the earth.

Figure 2. Cartoon showing effects of an inactive sun on the temperature of the earth.

Cloud Experiment Supports GW Theory, Dr. Larry Vardiman

Conclusions

- Global warming has been occurring for over 150 years, even before industrialization.
- It's probably due mostly to natural causes.
- Humans may contribute a small part, but the main cause of global warming is still not understood.
- One theory shows great promise: Increased solar activity modulates galactic cosmic radiation(GCR), decreases low-level cloud cover, and warms the atmosphere.
- Global warming may be beneficial.

Conclusions

- Global warming has been occurring for over 100 years.
- The warming may only be short-term.
- The warming is probably due to natural causes.
- Man probably contributes a small part.
- The cause still needs to be identified.
- One theory shows great promise: Solar activity modulates galactic cosmic radiation, decreases low-level cloud cover, and warms the atmosphere.
- The insertion of even large amounts of CO₂ causes minimal warming

NIPCC's Findings on Physical Science

- Atmospheric carbon dioxide (CO2) is a mild greenhouse gas that exerts a diminishing warming effect as its concentration increases.
- Doubling the concentration of atmospheric CO2 from its preindustrial level, in the absence of other forcings and feedbacks, would likely cause a warming of ~0.3°C to 1.1°C, almost 50 percent of which must already have occurred.
 - A few tenths of a degree of additional warming, should it occur, would not represent a climate crisis.
 - CO2 is a vital nutrient used by plants in photosynthesis.
 Increasing CO2 in the atmosphere "greens" the planet and helps feed the growing human population.

Findings on Physical Science – 2

- Model outputs published in successive IPCC reports since 1990 project a doubling of CO2 could cause warming of up to 6°C by 2100. Instead, global warming ceased around the end of the twentieth century and was followed (since 1997) by 19 years of stable temperature.
- Over recent geological time, Earth's temperature has fluctuated naturally between about +4°C and -6°C with respect to twentieth century temperature. A warming of 2°C above today, should it occur, falls within the bounds of natural variability.
- Though a future warming of 2°C would cause geographically varied ecological responses, no evidence exists that those changes would be net harmful to the global environment or to human well-being.

Findings on Physical Science – 3

- At the current level of ~400 ppm we still live in a CO2starved world. Atmospheric levels 15 times greater existed during the Cambrian Period (about 550 million years ago) without known adverse effects.
- The overall warming since about 1860 corresponds to a recovery from the Little Ice Age modulated by natural multidecadal cycles driven by ocean-atmosphere oscillations, or by solar variations at the de Vries (~208 year) and Gleissberg (~80 year) and shorter periodicities.
- Earth has not warmed significantly for the past 18 years despite an 8 percent increase in atmospheric CO2, which represents 34 percent of all extra CO2 added to the atmosphere since the start of the industrial revolution.

Findings on Physical Science – 4

- No close correlation exists between temperature variation over the past 150 years and human-related CO2 emissions. The parallelism of temperature and CO2 increase between about 1980 and 2000 AD could be due to chance and does not necessarily indicate causation.
- The causes of historic global warming remain uncertain, but significant correlations exist between climate patterning and multidecadal variation and solar activity over the past few hundred years.
- Forward projections of solar cyclicity imply the next few decades may be marked by global cooling rather than warming, despite continuing CO2 emissions.

No Consensus

- The most important fact about climate science, often overlooked, is that scientists disagree about the environmental impacts of the combustion of fossil fuels on the global climate.
- The articles and surveys most commonly cited as showing support for a "scientific consensus" in favor of the catastrophic man-made global warming hypothesis are without exception methodologically flawed and often deliberately misleading.
- There is no survey or study showing "consensus" on the most important scientific issues in the climate change debate.
- Extensive survey data show deep disagreement among scientists on scientific issues that must be resolved before the man-made global warming hypothesis can be validated. Many prominent experts and probably most working scientists disagree with the claims made by the United Nations' Intergovernmental Panel on Climate Change (IPCC).

Why Scientists Disagree

- Climate is an interdisciplinary subject requiring insights from many fields of study. Very few scholars have mastery of more than one or two of these disciplines.
- Fundamental uncertainties arise from insufficient observational evidence, disagreements over how to interpret data, and how to set the parameters of models.
- IPCC, created to find and disseminate research finding a human impact on global climate, is not a credible source. It is agendadriven, a political rather than scientific body, and some allege it is corrupt.
- Climate scientists, like all humans, can be biased. Origins of bias include careerism, grant-seeking, political views, and confirmation bias.

Scientific Method vs. Political Science

- The hypothesis implicit in all IPCC writings, though rarely explicitly stated, is that dangerous global warming is resulting, or will result, from human-related greenhouse gas emissions.
 - The null hypothesis is that currently observed changes in global climate indices and the physical environment, as well as current changes in animal and plant characteristics, are the result of natural variability.
 - In contradiction of the scientific method,
 IPCC assumes its implicit hypothesis is
 correct and that its only duty is to collect
 evidence and make plausible arguments
 in the hypothesis's favor.





Flawed Projections

- IPCC and virtually all the governments of the world depend on global climate models (GCMs) to forecast the effects of human-related greenhouse gas emissions on the climate.
- GCMs systematically over-estimate the sensitivity of climate to carbon dioxide (CO2), many known forcings and feedbacks are poorly modeled, and modelers exclude forcings and feedbacks that run counter to their mission to find a human influence on climate.
- NIPCC estimates a doubling of CO2 from pre-industrial levels (from 280 to 560 ppm) would likely produce a temperature forcing of 3.7 Wm-2 in the lower atmosphere, for about ~1°C of *prima facie warming*.
- Four specific forecasts made by GCMs have been falsified by realworld data from a wide variety of sources. In particular, there has been no global warming for some 18 years.

False Postulates

- Neither the rate nor the magnitude of the reported late twentieth century surface warming (1979–2000) lay outside normal natural variability.
- The late twentieth century warm peak was of no greater magnitude than previous peaks caused entirely by natural forcings and feedbacks.
- Historically, increases in atmospheric CO2 followed increases in temperature, they did not precede them. Therefore, CO2 levels could not have forced temperatures to rise.
- Solar forcings are not too small to explain twentieth century warming. In fact, their effect could be equal to or greater than the effect of CO2 in the atmosphere.
- A warming of 2°C or more during the twenty-first century would probably not be harmful, on balance, because many areas of the world would benefit from or adjust to climate change.

Unreliable Circumstantial Evidence

- Melting of Arctic sea ice and polar icecaps is not occurring at "unnatural" rates and does not constitute evidence of a human impact on the climate.
- Best available data show sea-level rise is not accelerating. Local and regional sea levels continue to exhibit typical natural variability – in some places rising and in others falling.



The link between warming and drought is weak, and by some measures drought decreased over the twentieth century. Changes in the hydrosphere of this type are regionally highly variable and show a closer correlation with multidecadal climate rhythmicity than they do with global temperature.

Unreliable Circumstantial Evidence (2)

No convincing relationship has been established between warming over the past 100 years and increases in extreme weather events.

Meteorological science suggests just the opposite: A warmer world will see milder weather patterns.

No evidence exists that current changes in Arctic permafrost are other than natural or are likely to cause a climate catastrophe by releasing methane into the atmosphere.





Policy Implications

- Rather than rely exclusively on IPCC for scientific advice, policymakers should seek out advice from independent, nongovernment organizations and scientists who are free of financial and political conflicts of interest.
- Individual nations should take charge of setting their own climate policies based upon the hazards that apply to their particular geography, geology, weather, and culture.
- Rather than invest scarce world resources in a quixotic campaign based on politicized and unreliable science, world leaders would do well to turn their attention to the real problems their people and their planet face.

Five Key Climate Questions

- Is the world warming?
 - Yes, but historic record likely overstated, and there has been no warming in last 10 years
- Is that warming due to man's CO₂?
 - Likely "some," but probably not "most"
- Will future man-made warming be substantial?
 - *Perhaps a degree, at most, over the next century*
- Will we see catastrophic effects from warming?
 - *Likely not we have not seen them so far*
- Do CO₂ abatement laws like cap-and-trade make sense?
 - Costs far more than it helps. Many more important priorities. Carbon tax better than cap-and-trade.

What GW Advocates Must Prove

- Global warming actually exists
- Global warming is causing climate change
- Global warming is caused mainly by CO₂
- Burning fossil fuels is the primary cause of CO₂ increasing
- Global warming will absolutely cause serious harm
- Proposed solutions are effective, fair and economic

Why There Is No Reason For Alarm

- O_2 and CO_2 in the atmosphere were created, they did not evolve
- Today's atmosphere likely contains significantly less CO₂ than before the Flood
- CO₂ is necessary for life, and was created prior to plants and animals
- CO_2 is not a pollutant
- Increasing levels of CO₂ are beneficial for plants
- Decreasing levels of CO₂ could be a serious problem
- Burning fossil fuels simply returns CO_2 to the air,
- The present levels of oxygen in the air are adequate
- Plants were created as food for humans and animals

No Reason For Alarm - 2

- Glaciers have been retreating for thousands of years since the Flood
- Ice age glaciers melted due to cooling seas, not warming seas
- Climates have been constantly changing since the Flood
- Plants, animals and mankind have been adapting to climate for thousands of years
- Recent global temperature histories are insufficient for developing reliable conclusions about trends or impending catastrophes
- Increasing the concentration of CO₂ in the atmosphere will continue to improve crop production around the world, benefiting mankind
- Neither melting glaciers, increasing CO₂, changing climates, nor earth's surface temperature history are proof of global warming
- God is in control of history and the earth's climates, not man