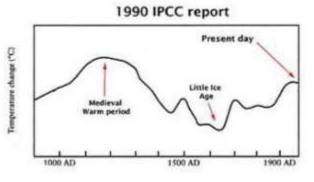
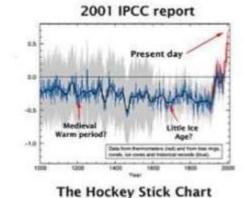
Do We Have A Climate Crisis?

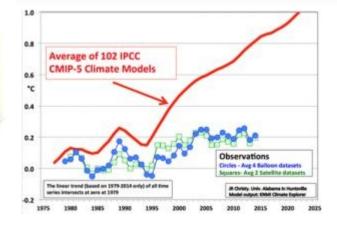
Dr. Heinz Lycklama <u>heinz@osta.com</u> <u>HeinzLycklama.com/messages</u>



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







Do We Have a Climate Crisis?

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



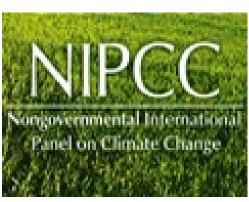
- NIPCC (Nongovernmental International Panel on CC)
- Consideration of 16 Key Issues
- Benefits of Warming and More CO2
- What Do The Experts Say?
- In Conclusion





IPCC

INTERGOVERNMENTAL 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**



UN IPCC Claims

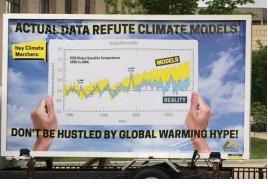
- Intergovernmental Panel on Climate Change (IPCC)
- GW occurring at a rapid rate
- Largely due to increased burning of fossil fuel
- Must cut back on CO2 released into atmosphere
- Representatives of 190+ nations meet annually
- 6 IPCC reports issued over last 30+ years
- Claims refuted by Nongovernmental International Panel on Climate Change (NIPCC)
 - Nature, not human activity, rules the climate

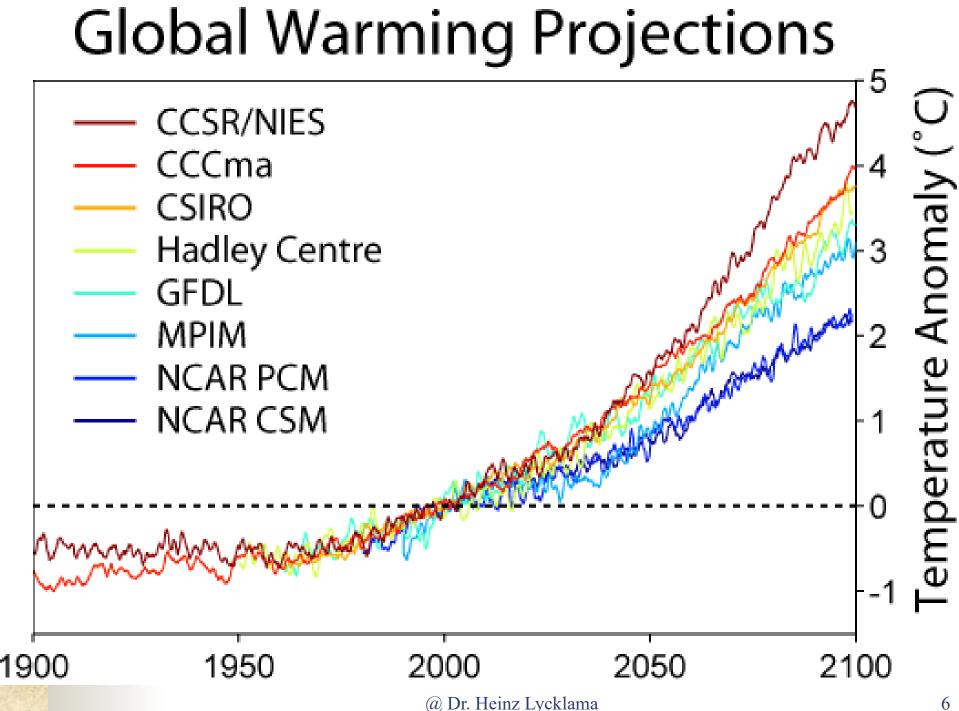
The Manmade GW/CC Claims

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, heat waves, more wildfires, etc.
- Most significant threat to mankind
- Must act NOW!
- What is the Reality?

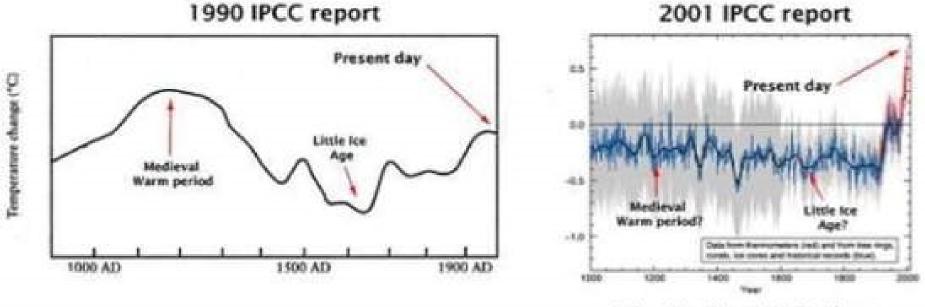
"Before this century is over, billions of us will die ... " James Lovelock, scientist





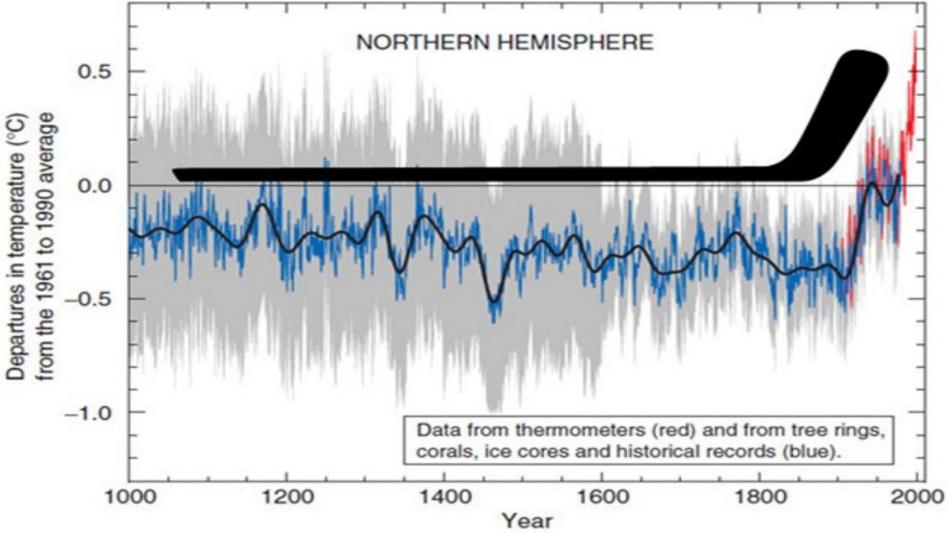
The Changing UN IPCC Reports

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

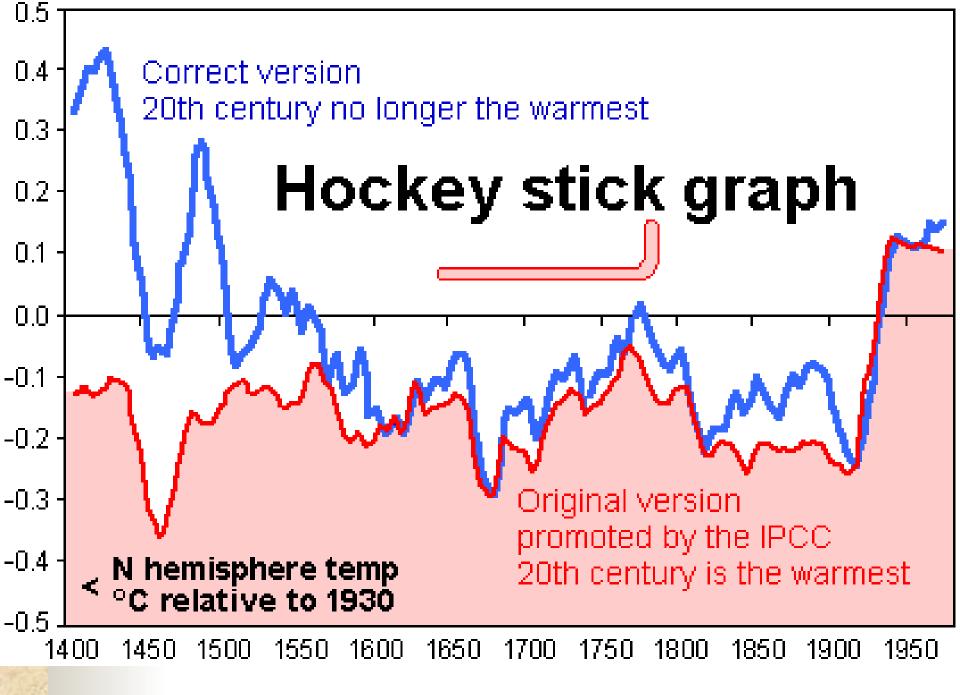


The Hockey Stick Chart

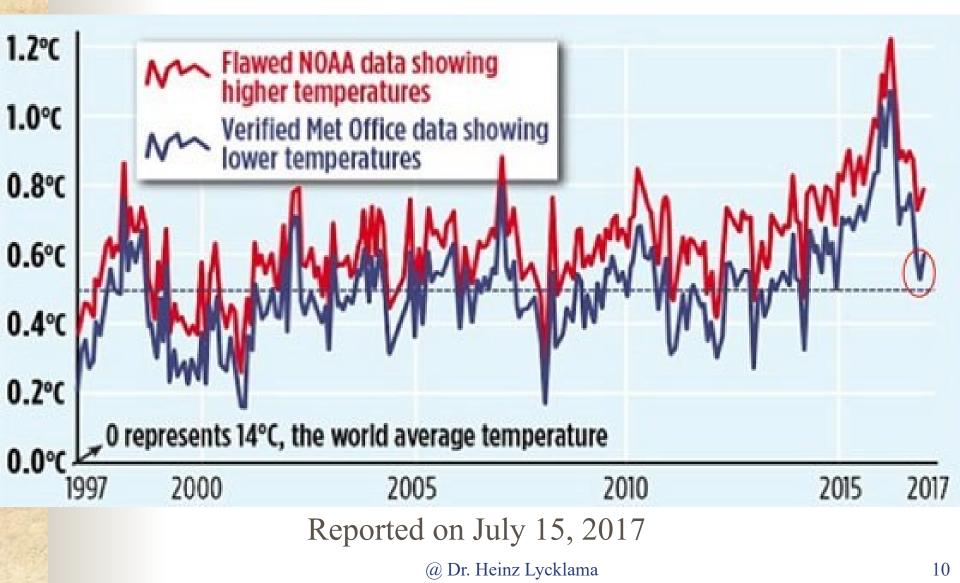
Hockey Stick Chart

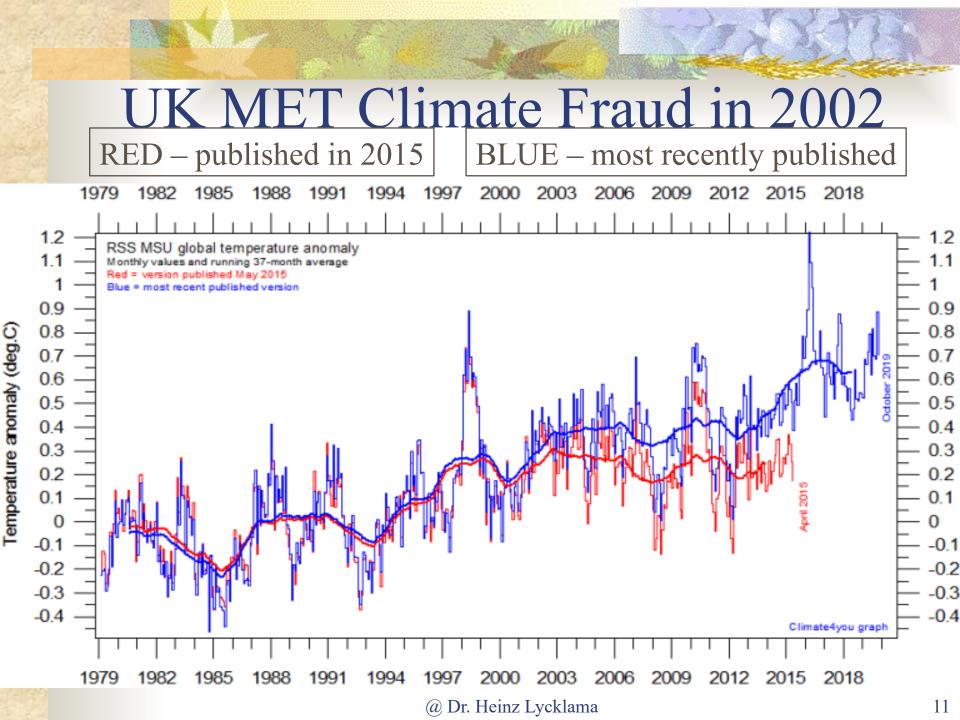






MIT Researchers Slam GW Data





NASA US Temperature, 1999-2019



Global Cooling (GC) -> Global Warming (GW)? GC alarmists: Gov. Brown Jr., Dr. John Holdren, Dr. Paul Ehrlich GW alarmists – Gov. Brown Jr., Dr. John Holdren, Al Gore



Global Cooling





Global Warming



Global Cooling? Global Warming?

Gov. Jerry Brown's <u>1977 Global Cooling</u> BS, Recycled As Gov. Jerry Brown'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

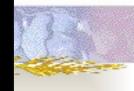
CALIFORNIA GOVERNOR JERRY BROWN:

1977: UNPRECEDENTED CALIFORNIA DROUGHT CAUSED BY GLOBAL COOLING

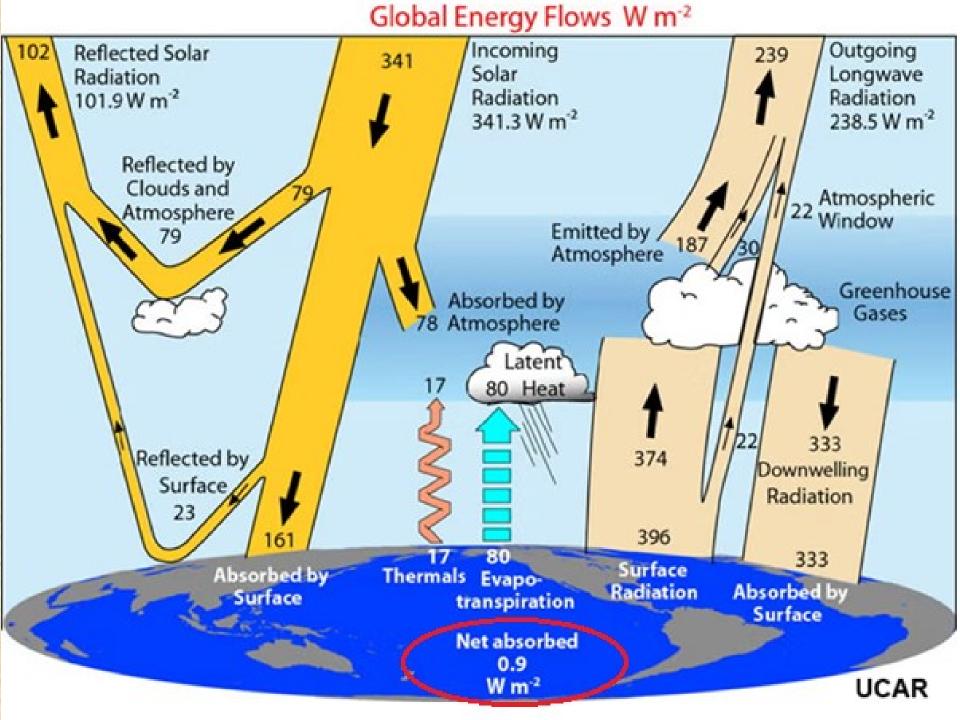
2015: 'UNPRECEDENTED CALIFORNIA DROUGHT CAUSED BY GLOBAL WARMING'

'HOT, COLD - WHAT'S THE DIFFERENCE?'

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



North Pole Ice Cap August, 2013



The Sun powers the Earth's climate

Clouds

30% of the Sun's rays are reflected into space by clouds and the surface

The Greenhouse Effect

Greenhouse gases and clouds absorb IR radiation trying escape from the surface to space and reemit it. This makes the surface warmer than it would be with no greenhouse gases.

The other 70% of the sunlight is absorbed by the Earth's surface and atmosphere, converted to heat, and is reemitted as invisible infrared (IR) rays

ray

(Modified from IPCC 2007)

SUN

IR rays

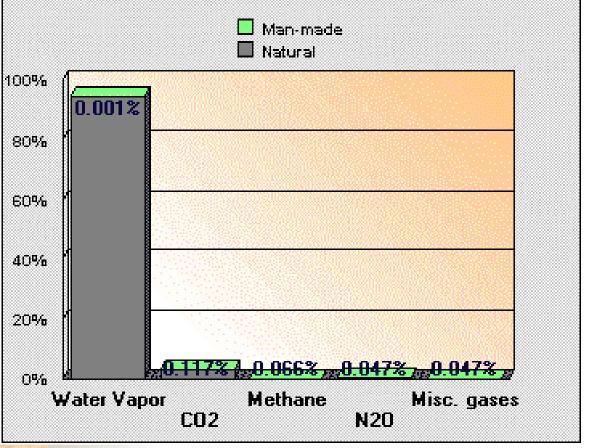
Anthropogenic Contribution

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%

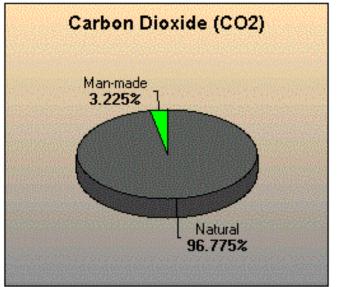
Greenhouse Gases (with Water Vapor)

Contribution to the Greenhouse Effect (Including water vapor)



Greenhouse Gases

Water vapor & clouds ~95% Carbon dioxide [CO2] ~3.6% Methane [CH4] ~0.36% Nitrous Oxide [N2O] ~.95% Miscellaneous Gases ~.07



Human contribution to greenhouse effect = 0.28%

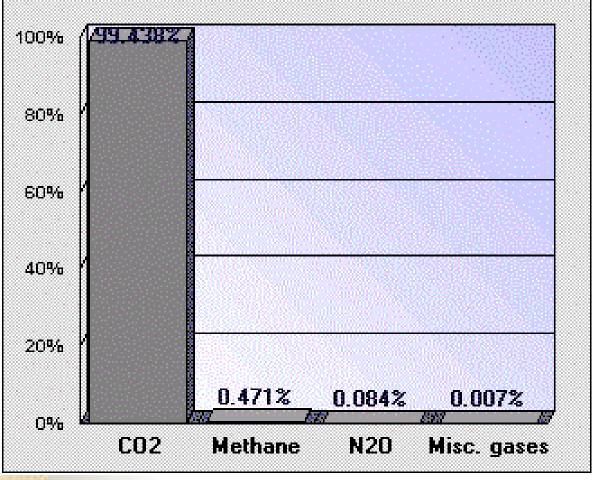
Natural & Manmade Sources

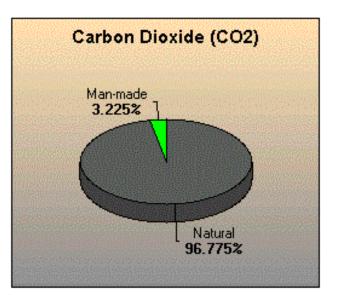
Water Vapor (not droplets) Contribution to the "Greenhouse Effect" (Natural and Man-made Sources) Man-made 0.001% 100% 95 000% 80% Natural 99.999% 60% Carbon Dioxide (CO2) 40% Man-made 3.225% 20% 3.618% 0.950% 0.360% 0 072% 0**9**% Water Vapor Methane Misc. gases Natural C02N20 96.775%

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

Greenhouse Gases (no Water Vapor)

Greenhouse Gas Concentrations (% of total) Natural and Man-made Sources (except water vapor)

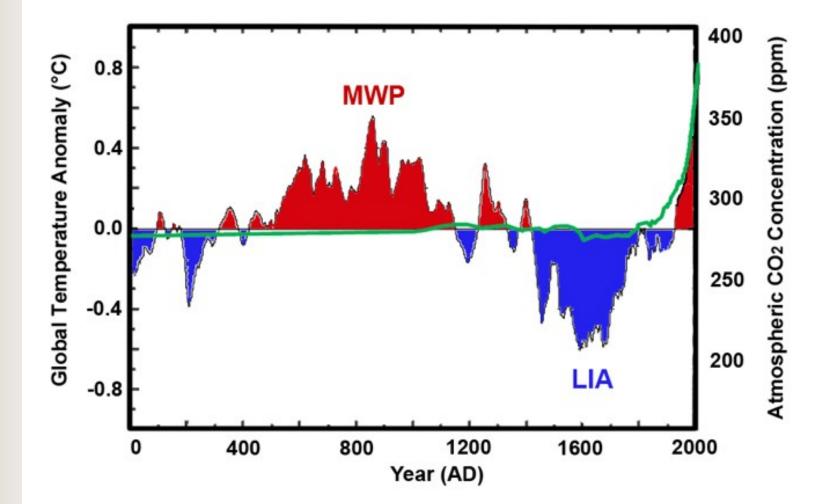




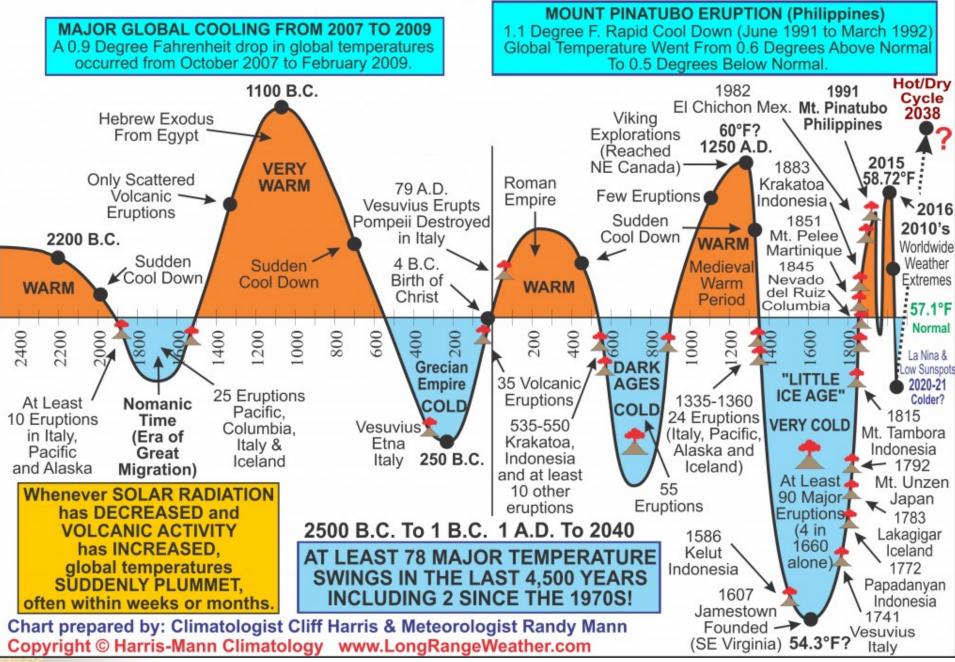
Issue #1

Climate Always Changing

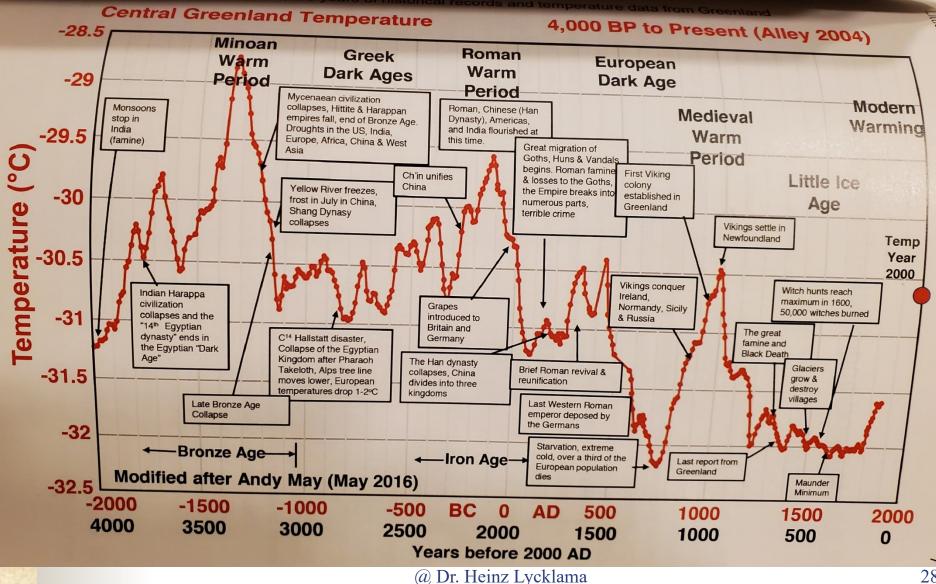
Mean Relative Temperature History



GLOBAL TEMPERATURES (2500 B.C. TO 2040 A.D.)



Greenland Temperature Record



Issue #2

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

CO2 Is NOT A Pollutant! CO₂ is not a pollutant!





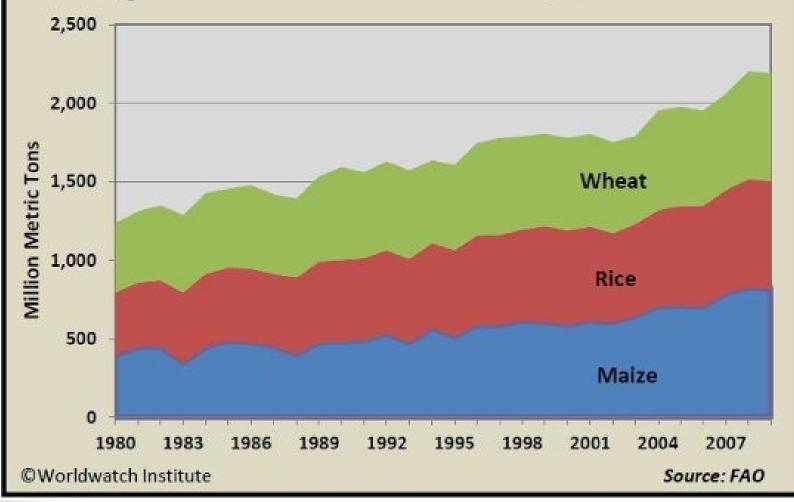
Power plant	's brea	th:
70% N ₂		
5% O2		
5% H ₂ O		
20% CO ₂		

Alice's breath: 75% N₂ 15% O₂ 6% H₂0 4% CO₂

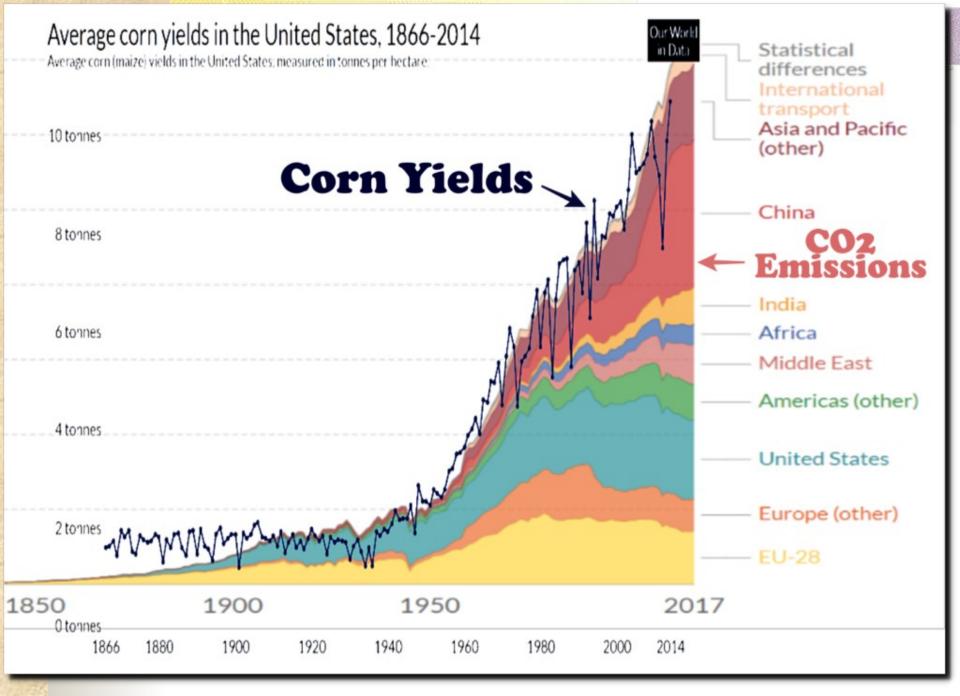
Each human exhales about 2 pounds of CO₂ per day.

Growth and Increased CO2

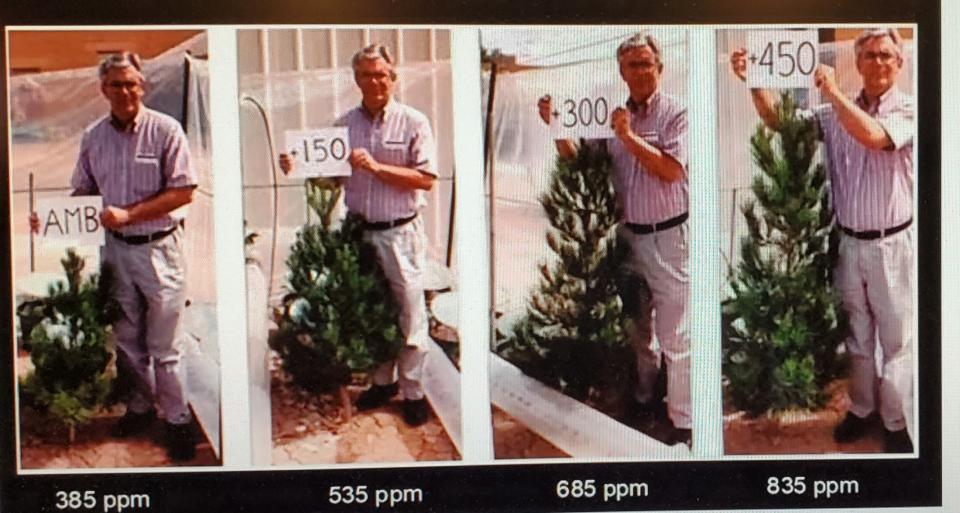
Figure 1. World Grain Production, 1961–2010



[@] Dr. Heinz Lycklama



Here is what happens with more CO2

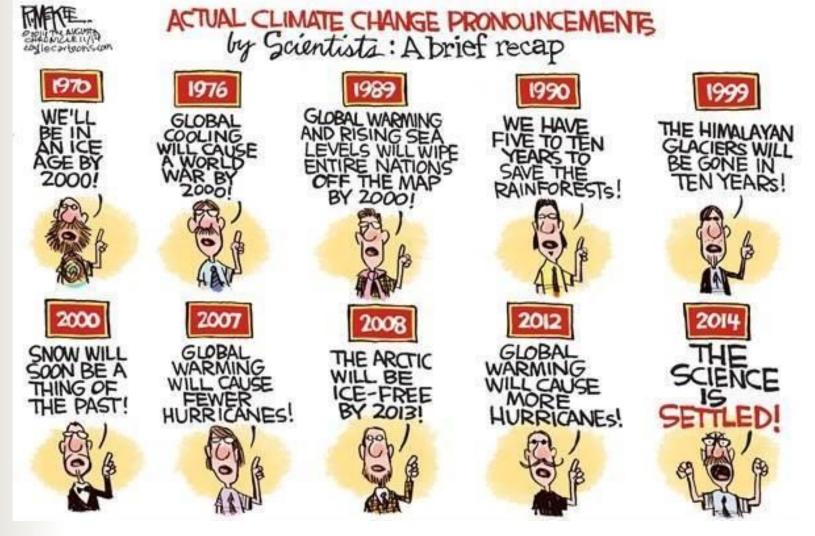




Botched Predictions for 2015

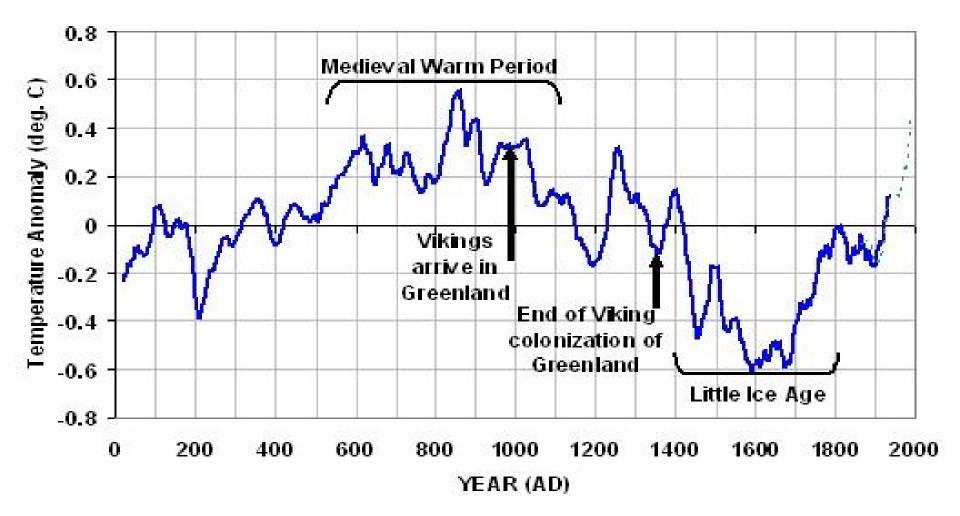
- Predictions by Dr. Paul Ehrlich, Dr. John Holdren [Obama's Science Advisor], the UN
 - Made in **1970's** and **1980's** about **Global Cooling**
- All came to naught:
 - UN overestimated GW by 2015
 - All Rainforest Species Will Be Extinct
 - Oil will run out by 2015
 - Arctic sea ice will disappear 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



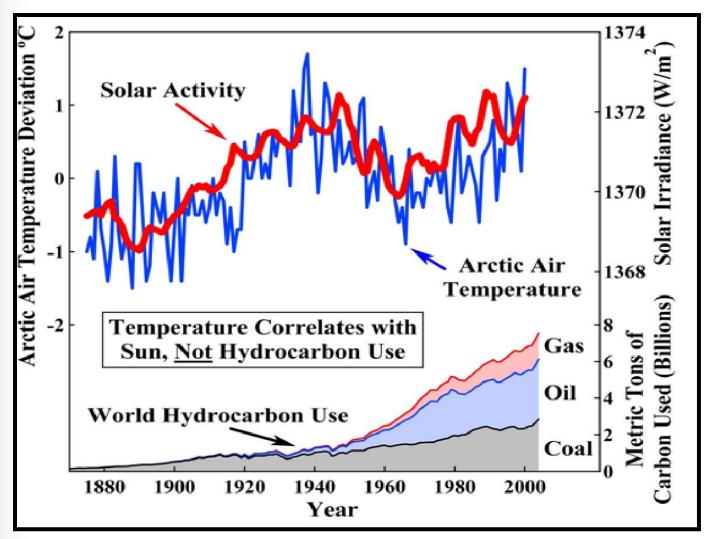
[@] Dr. Heinz Lycklama

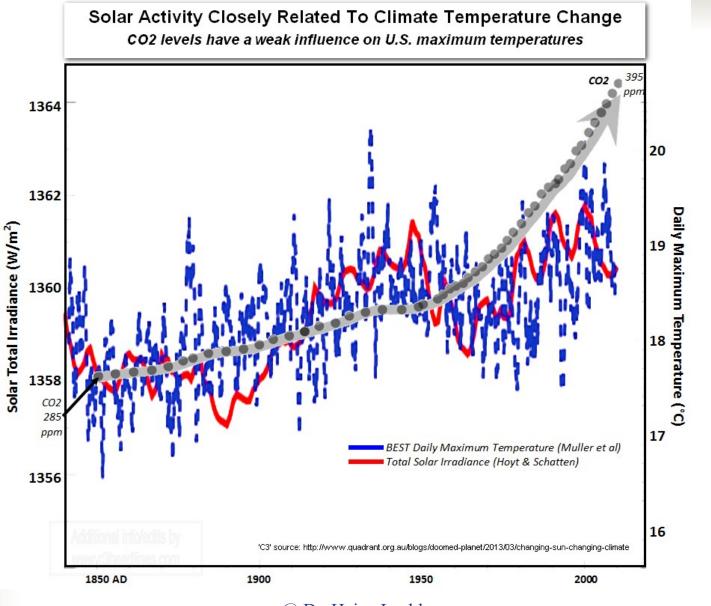
2000 Years of Global Temperatures



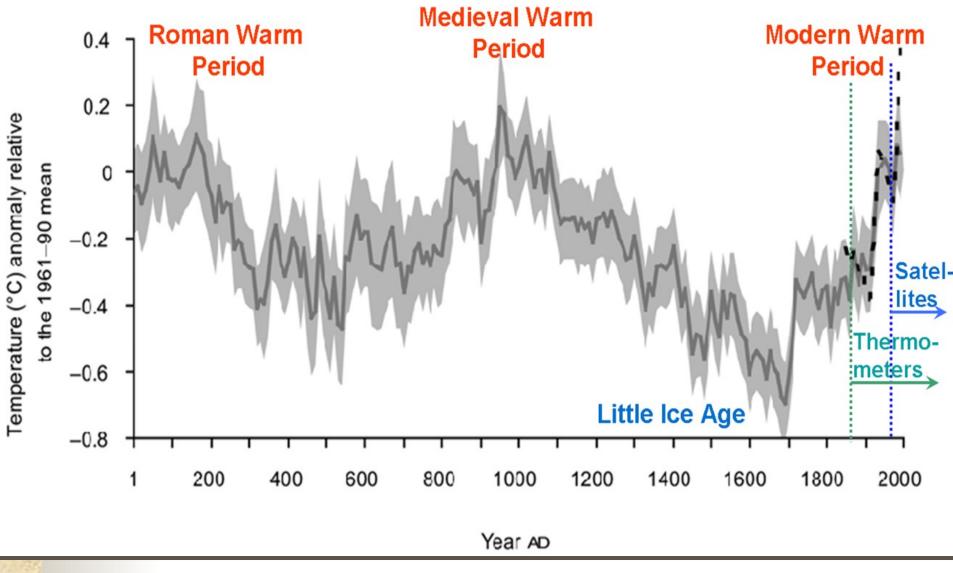


30-Year Cooling in Mid-Century



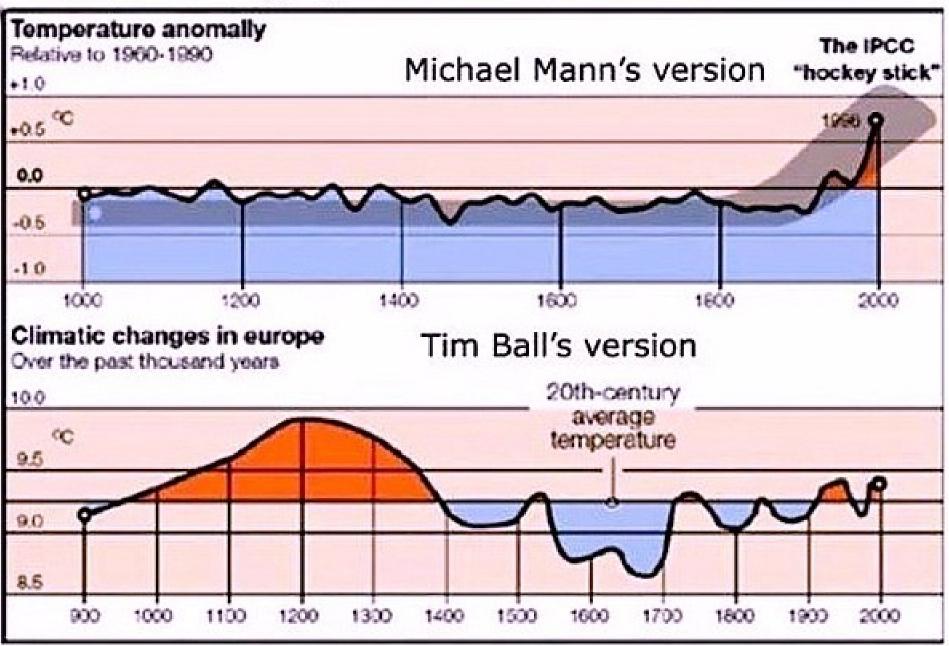


Temperature Reconstruction* for N. Hemisphere, 1 - 2000 AD Shows Modern Warm Period Not Exceptional



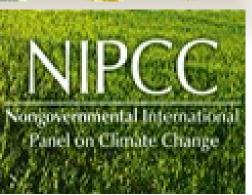


Battle of the graphs: Mann versus Ball



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



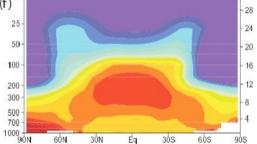
CO2 Cannot Drive Global Warming

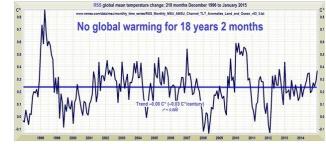
Possible Global Warming Causes

- A. Increased **CO2** in atmosphere?
 - Insignificant GHG, follows GW
- **B.** GW by Sunspots Only?
 - Influence too small by themselves
- - Cloud Cover increase -> Cooling
 - Galactic Cosmic Radiation (GCR)
- **D**. Pacific Decadal Oscillation (**PDO**)?
 - Occurs every 30 years in North Pacific Ocean

A. Evidence for GW by CO2?

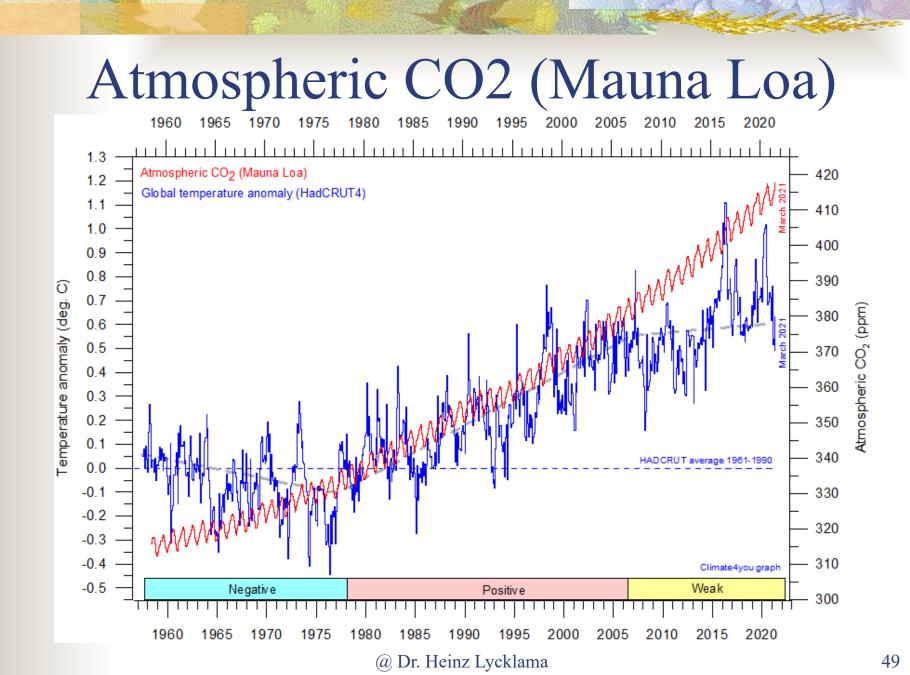
- The greenhouse gas signature missing 61%
- No telltale "hotspot" warming pattern
 Vostoc ice cores do not show CO2 pushing up temperatures
 - Increased temperatures 800 years
 before CO2
- Temperatures are not rising



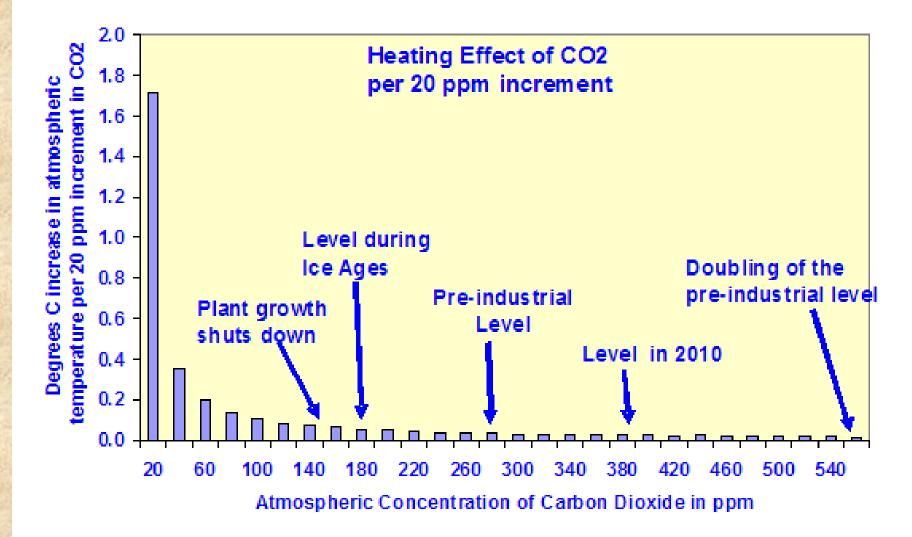


- Since 1999 temperatures have been flat
- CO2 already doing almost all the warming it can do
 - Twice the CO2 does not make twice the difference

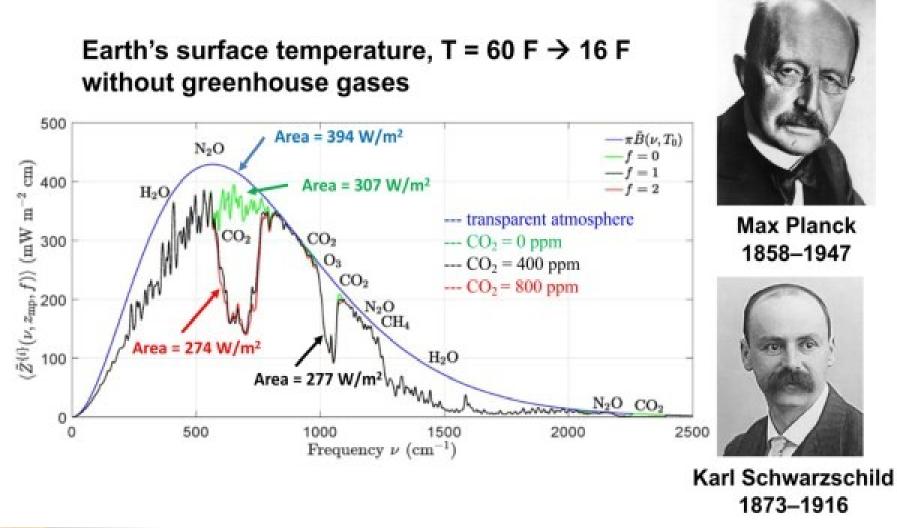
The Skeptic's Handbook, Joanne Nova 2009



CO2 in Atmosphere Insignificant

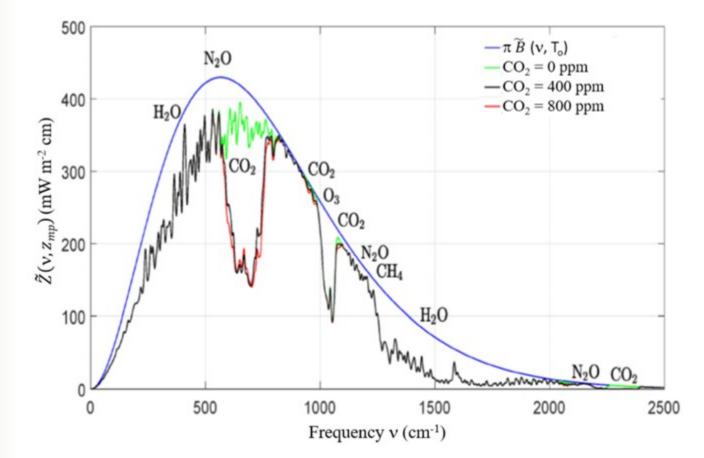


Greenhouse Gases Essential



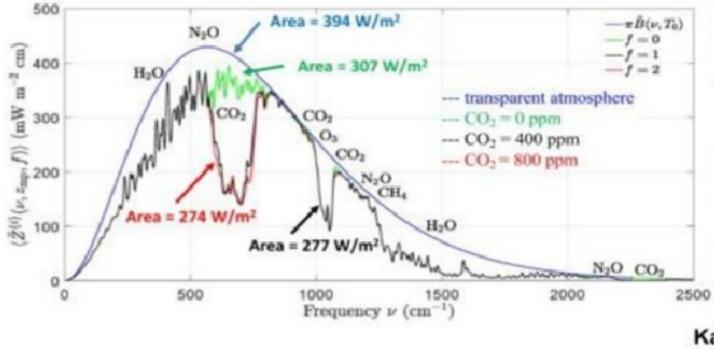


Impact of Adding CO2



Impact of CO2 and CH4 Increases Saturation Effect of CO2 and CH4

Earth's surface temperature, T = 60 F → 16 F without greenhouse gases





Max Planck 1858–1947

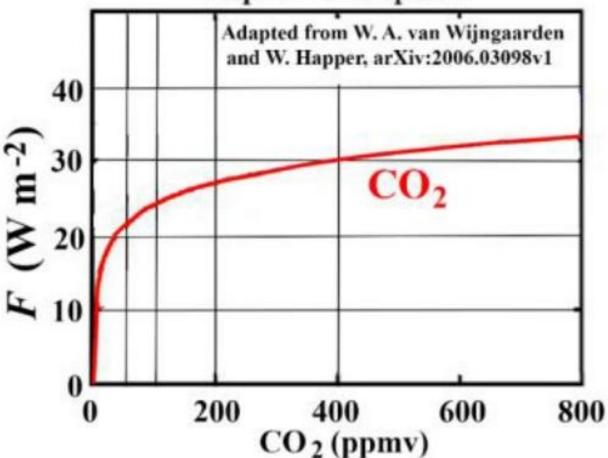


Karl Schwarzschild 1873–1916

@ Dr. Heinz Lycklama

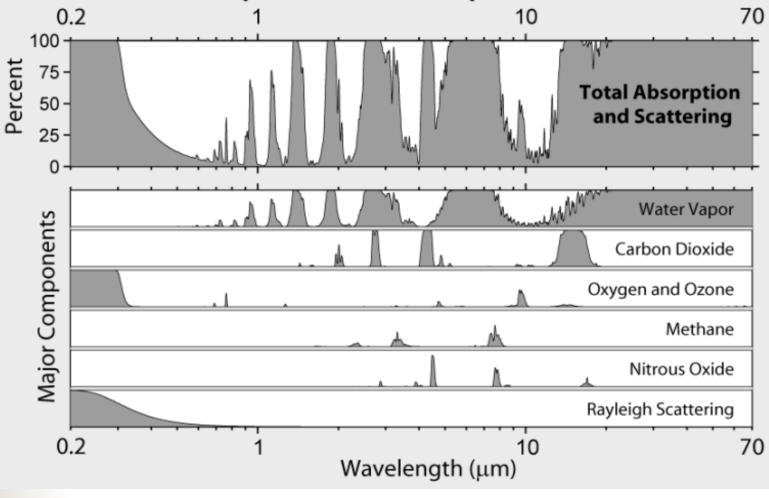
Impact of Adding CO2 (adapted)

Top of Atmosphere



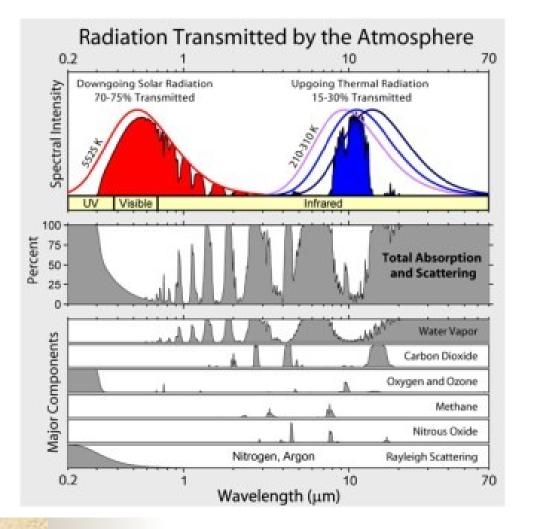
Atmospheric Absorption Bands

Atmospheric Absorption Bands



@ Dr. Heinz Lycklama

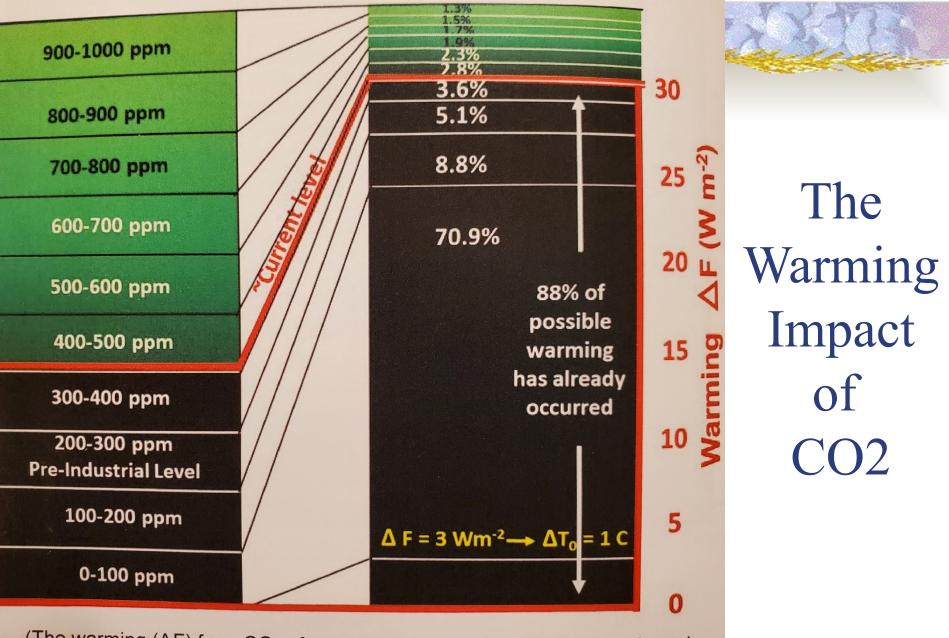
Radiation Transmitted by the Atmosphere



This graph shows the fraction of radiation absorbed or scattered on a vertical path from the top of Earth's atmosphere to the surface, or vice versa. The horizontal scale is the wavelength of the radiation.

The smooth curves on the top panel are "Planck intensities" for various temperatures, 5525 K, the effective temperature of the Sun's surface (red) and the much lower temperatures of Earth's surface, about 210 K (black) for the South Pole and 310 for a warm day in Phoenix (violet).

Most sunlight (red) is transmitted, only about a quarter of the thermal cooling radiation (blue) is transmitted because of absorption by greenhouse gases, shown in the lower panels.



(The warming (Δ F) from CO₂ of concentration c is described by the formula Δ F = δ F log² (1 + c/c₀) for the top of the atmosphere.)

Tons of GHG Added to Atmosphere

50 billion t	Nitrous oxide (N ₂ O) Methane (CH ₄)	2021	
40 billion t	A CONTROL OF MY	in tonnes	
30 billion t		Nitrous oxide (N₂O)	2.97 billion t
20 billion t	Carbon dioxide (CO ₂)	Methane (CH₄)	10.51 billion t
10 billion t		Carbon dioxide (CO ₂)	41.12 billion t
Ot		Total	54.59 billion t

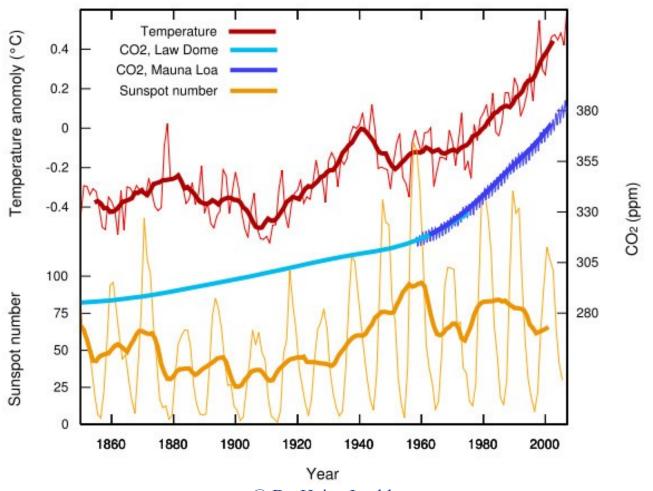


Issue #5

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

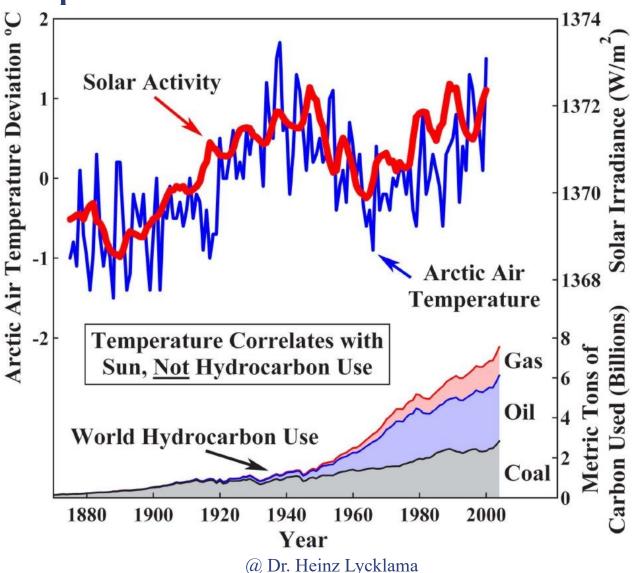
B. GW by Sunspots Only?

Temperature, CO₂, and Sunspots



@ Dr. Heinz Lycklama

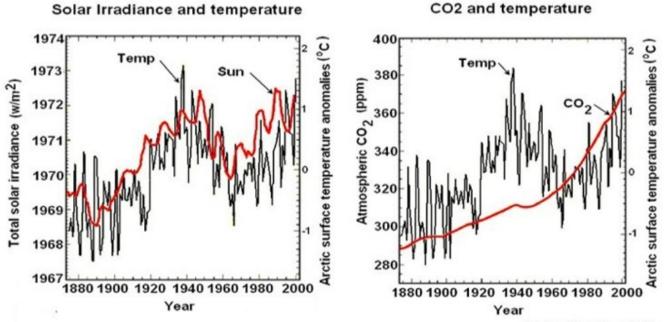
Temperature Correlation With Sun



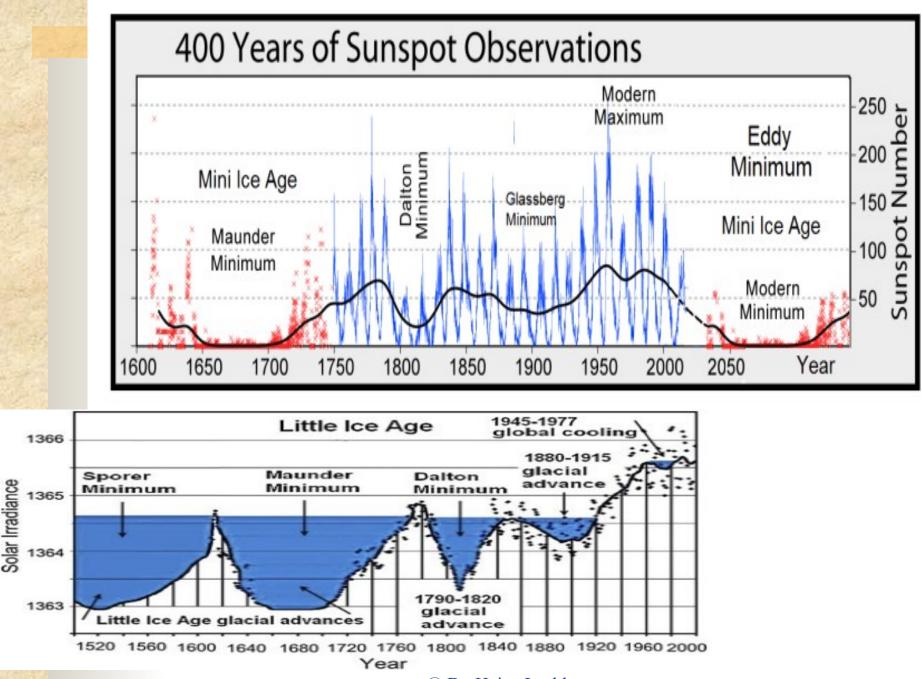
61

C. 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



International Sunspot Number





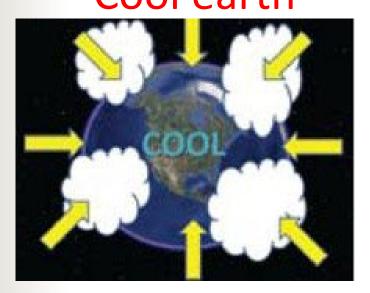
— Monthly mean total sunspot number

— 13-month smoothed monthly total sunspot number

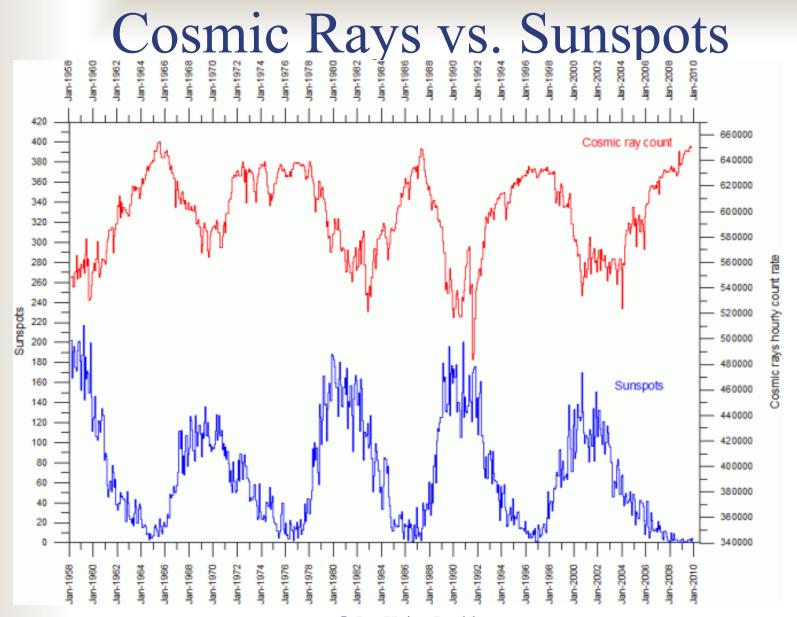
WDC-SILSO, Royal Observatory of Belgium, Brussels



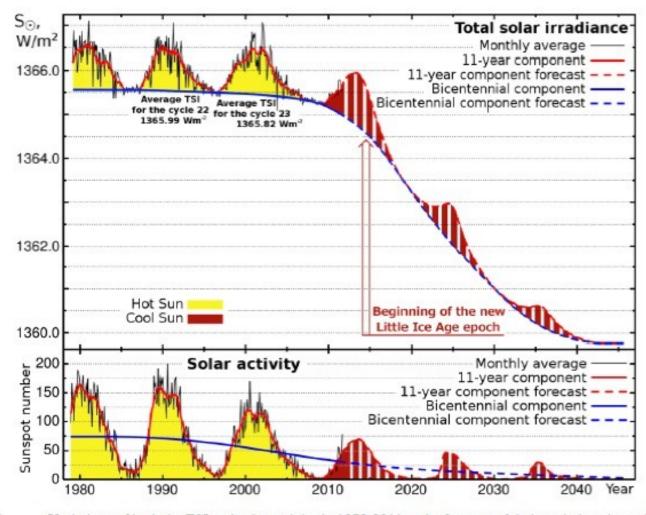
Svensmark Global Cosmic Ray Theory
Inactive SunInactive SunHigh cosmic raysMore cloudsFewer cloudsCool earthHot earth



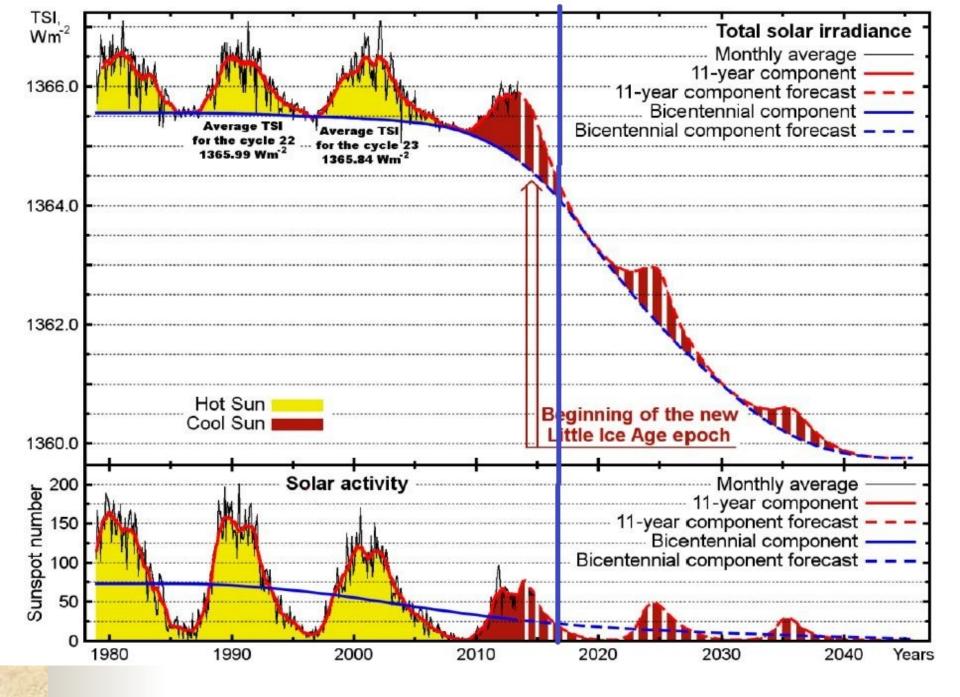
Cloud Experiment Supports GW Theory, Dr. Larry Vardiman @ Dr. Heinz Lycklama



Total Solar Irradiance Forecast



Variations of both the TSI and solar activity in 1978-2011 and a forecast of their variations in cycles 24-26 (up to the year 2045)

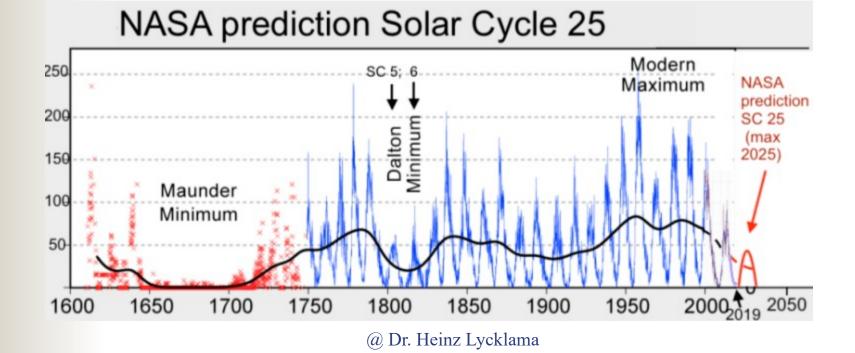


Anthropic GW Hoax Unravelling

- The Sun is continually being revealed as the main driver of Earth's climate, and the Sun is shutting down (relatively), cloud-nucleating Cosmic Rays are on the increase, and a meridional jet stream flow is becoming evermore prevalent
- The upshot of all these forcings is most likely Global Cooling

NASA Prediction – Solar Cycle 25 Solar cycle (25) will be "the weakest of the past

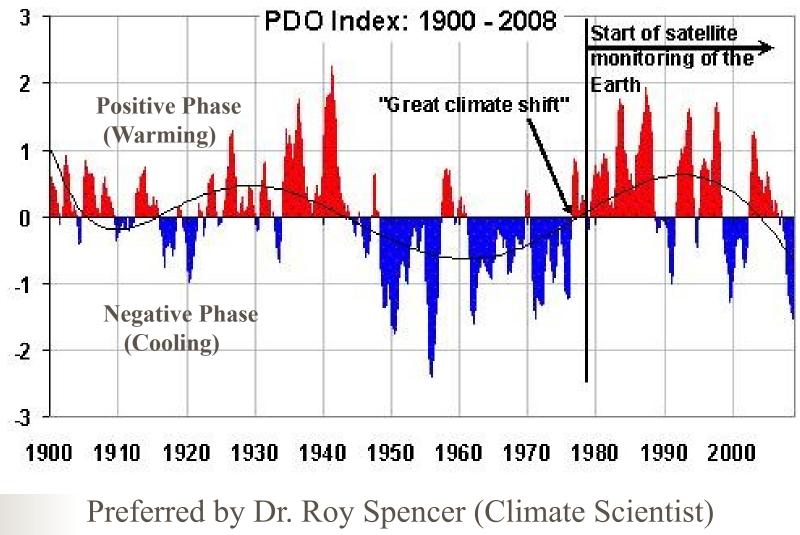
<u>200 years</u>," with the agency correlating previous solar shutdowns to prolonged periods of global cooling <u>here</u>

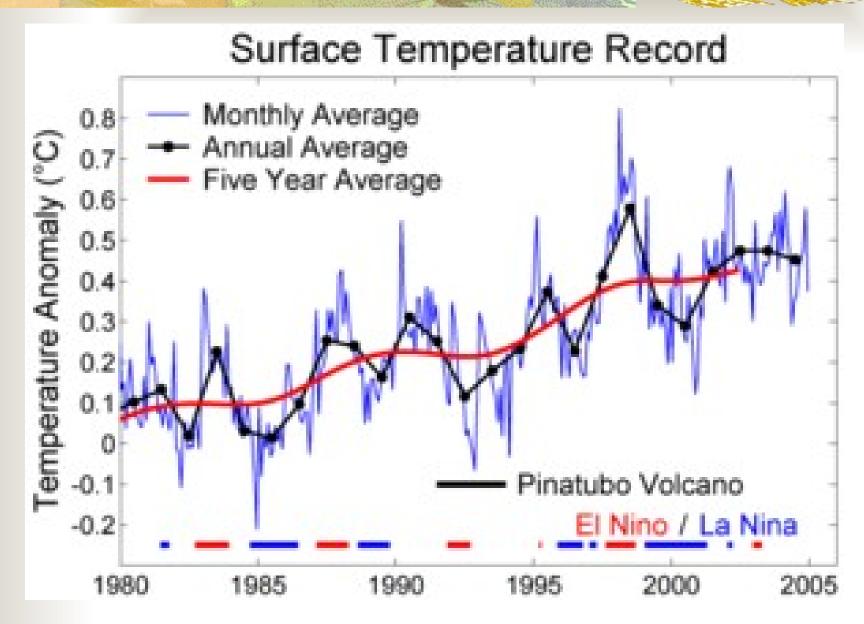


Issue #6

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

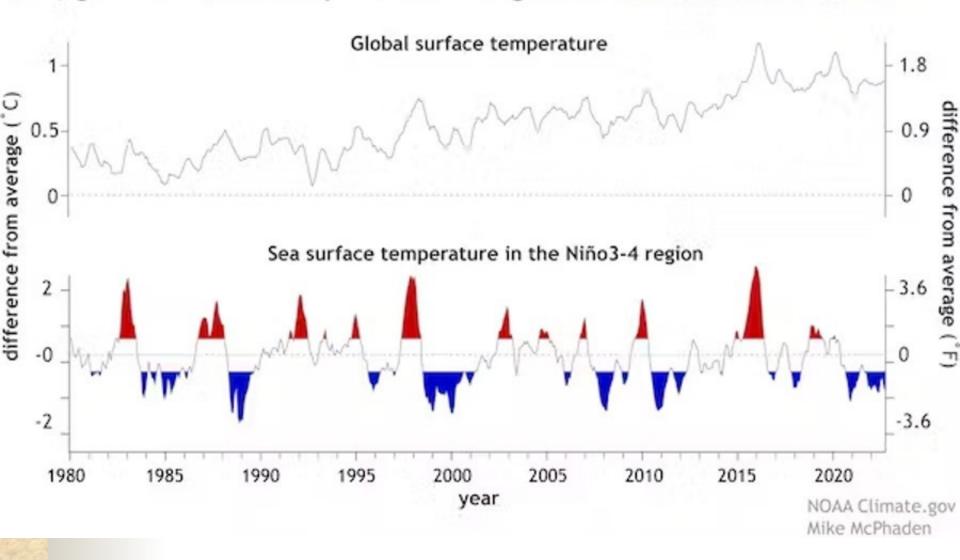
D. Pacific Decadal Oscillation (PDO)



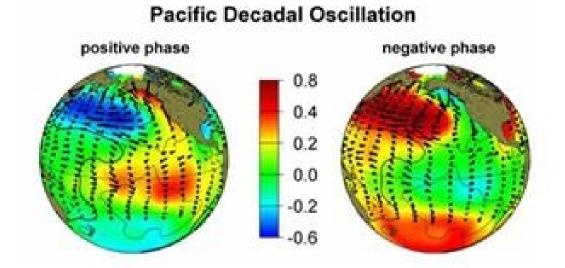


[@] Dr. Heinz Lycklama

How global surface temperature changes with El Niño and La Niña



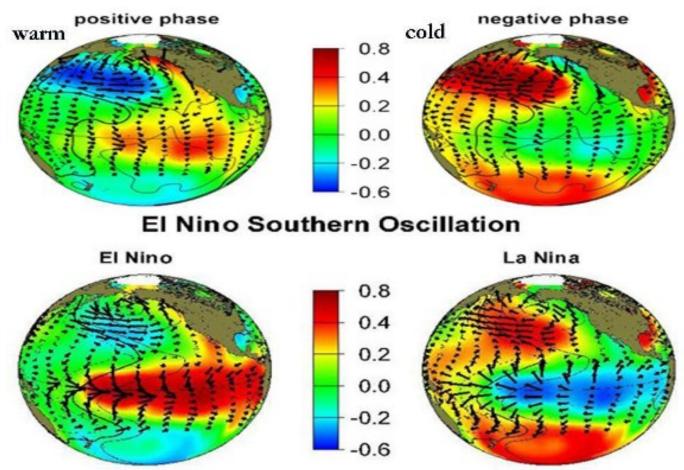
PDO – Key to the GW Debate?



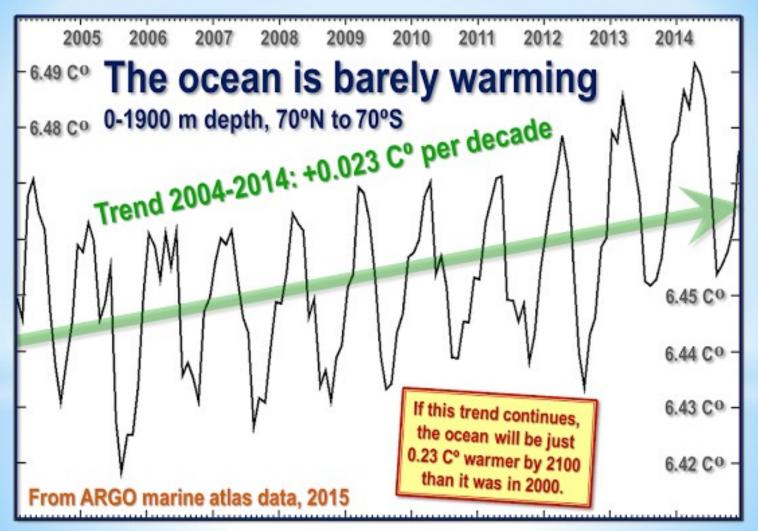
 Switch between two circulation patterns every 30 years in North Pacific Ocean
 ENSO – El Nino Southern Oscillation every few years of tropical Pacific Ocean

Pacific Ocean Oscillations

Pacific Decadal Oscillation



Ocean Warming Minimal



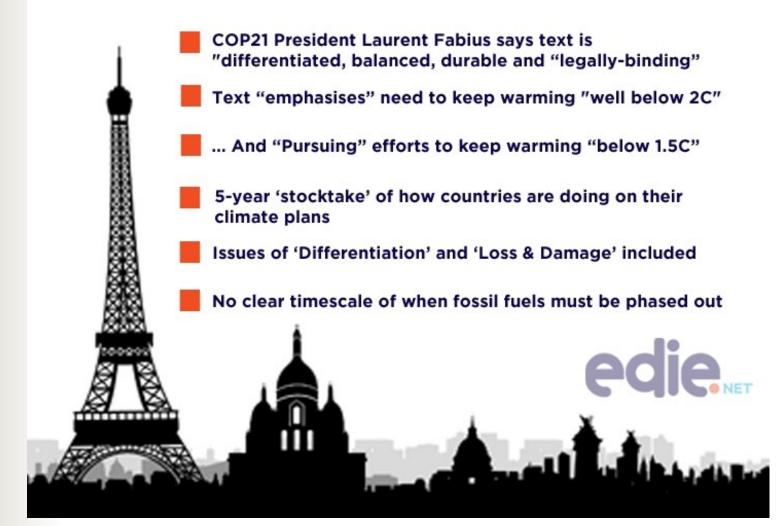
Issue #7

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

Paris Climate Agreement

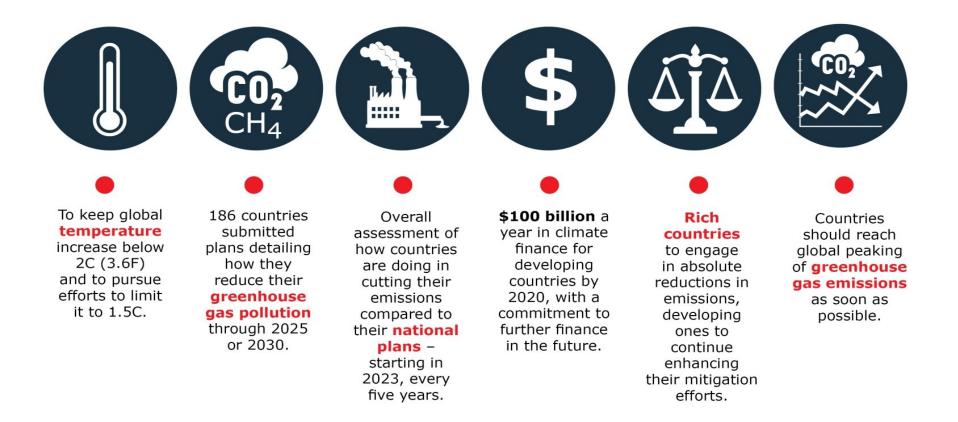
- Work of the UN Framework Convention on CC
- Deals with Green House Gas emissions mitigation, adaptation and finance
- Adopted on December 12, 2015
 - Start planned for 2020
 - Signed by 195 nations, ratified by 144
 - Implementation implications
 - Prevent 0.306 degrees Fahrenheit of GW by 2100
 -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



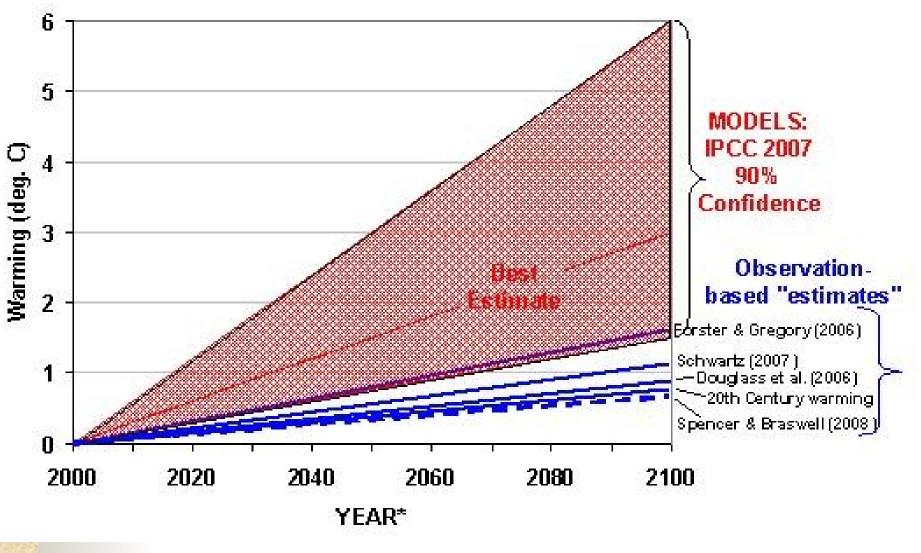
Emissions Targets for USA & China

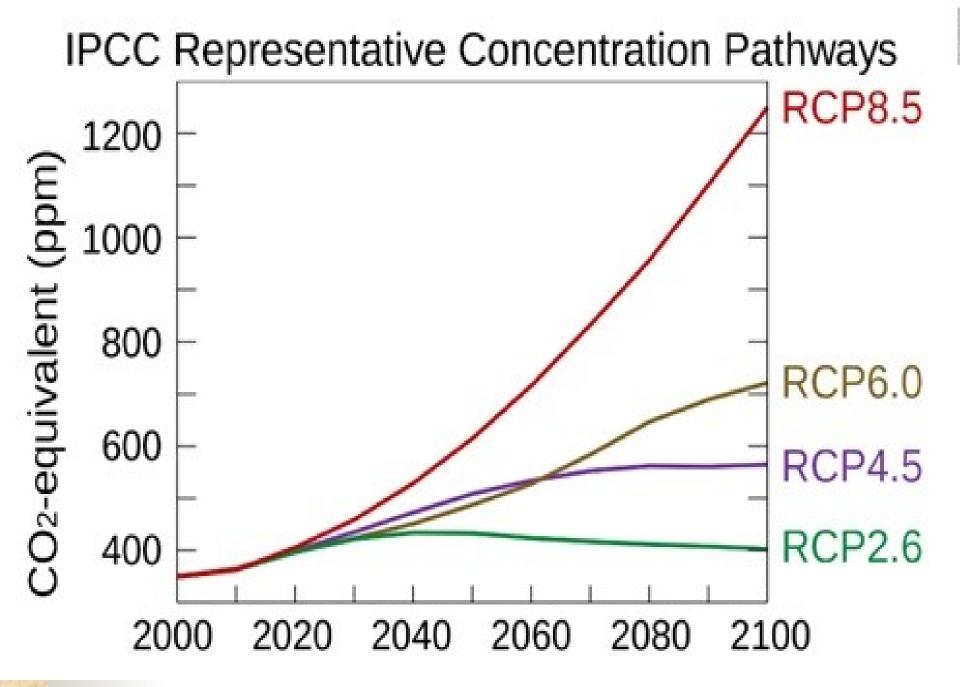
- The Obama administration agreed to an economy-wide target of reducing U.S. greenhouse gas (82% of which is carbon dioxide (CO_2)) emissions by 26%-28% below its 2005 level in 2025.
 - China agreed "to achieve the peaking of CO_2 emissions around 2030" and to other measures such as those designed to 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.



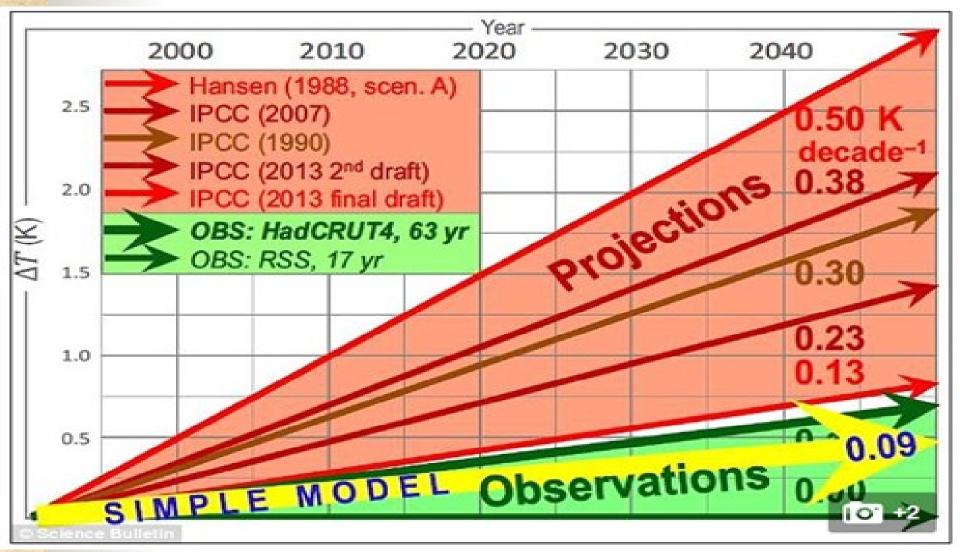
The UN IPCC Climate Models Are Not Realistic

Models & Estimates

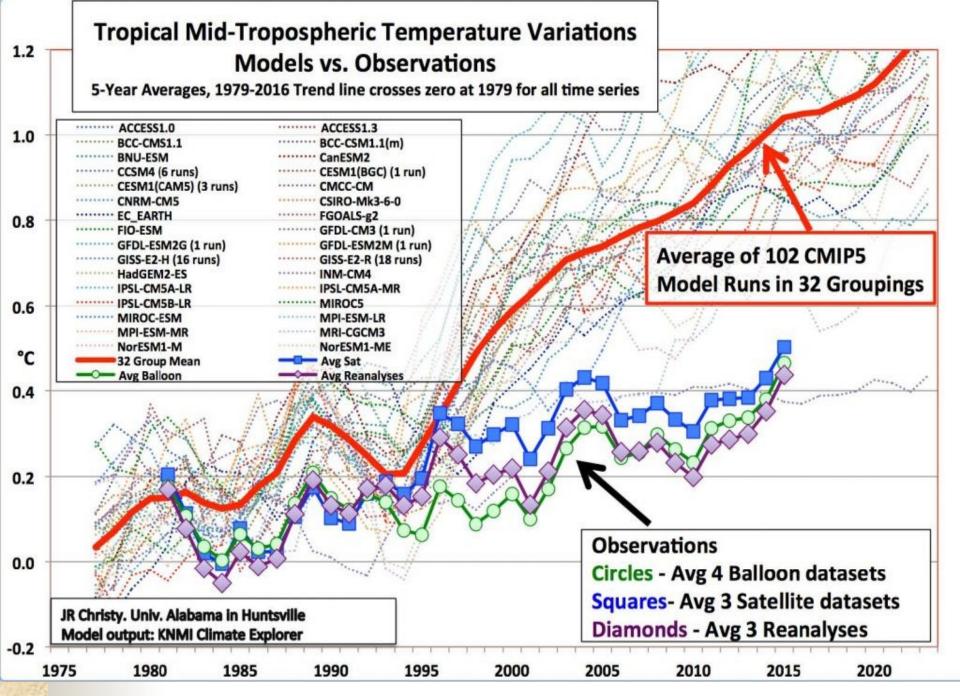


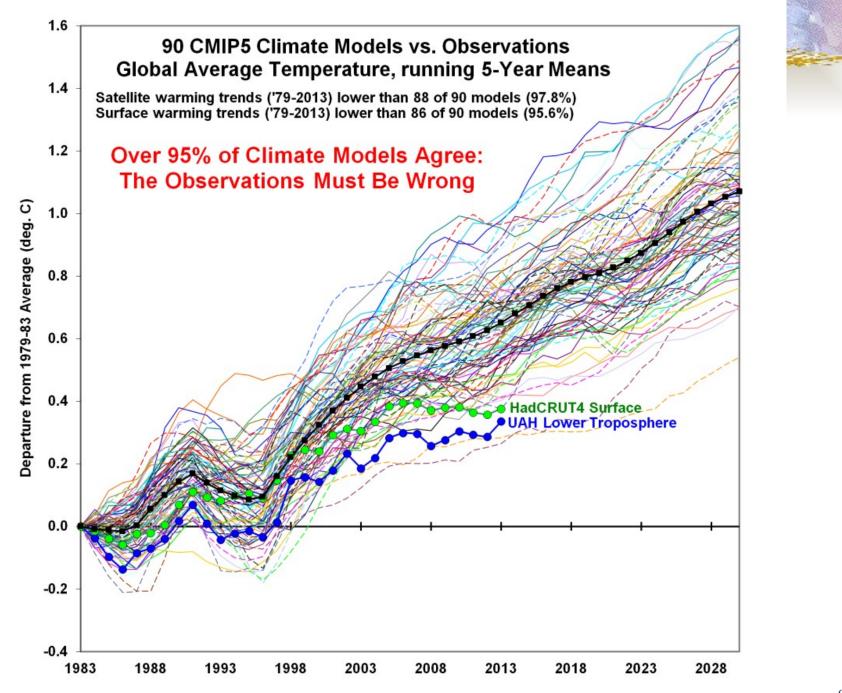


IPCC Change in Projections

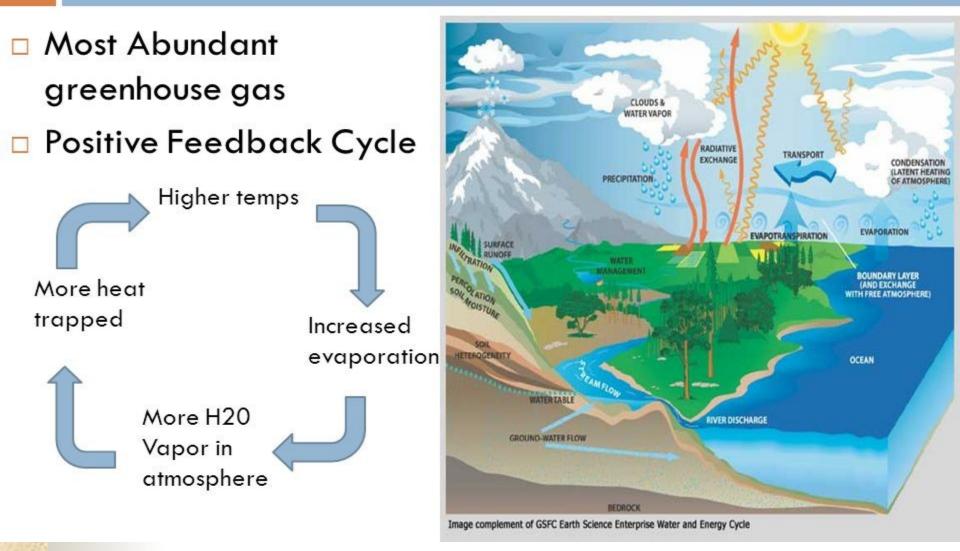


[@] Dr. Heinz Lycklama





Water Vapor (H₂0)

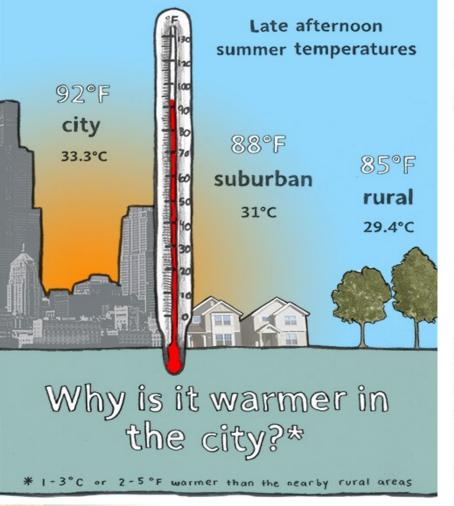


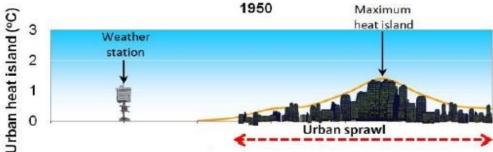
Issue #9

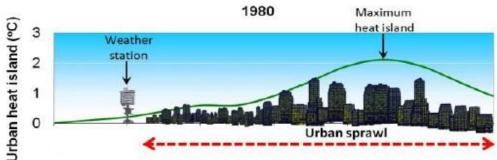
Surface Weather Stations Give Less Accurate (and Higher Average) Temperatures Than Satellite Measurements

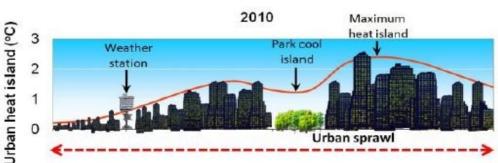
Urban Heat Island Effect

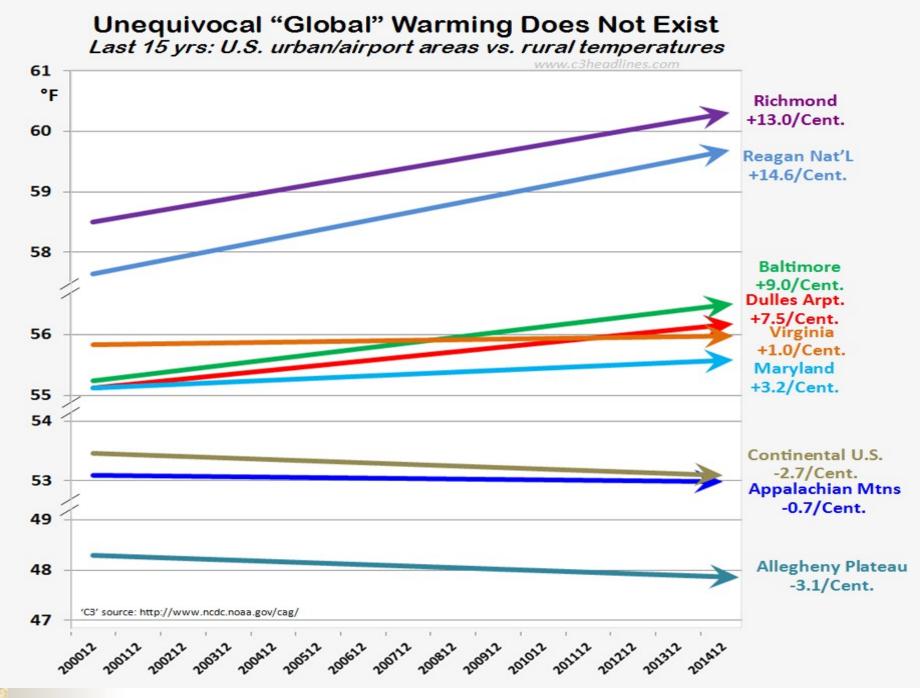






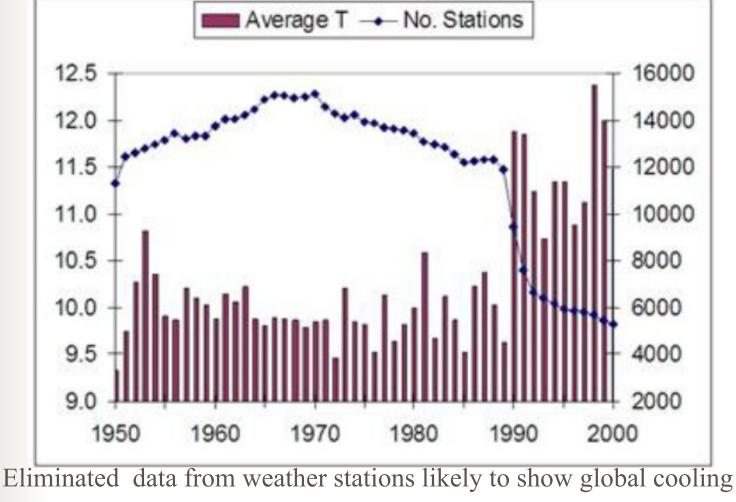




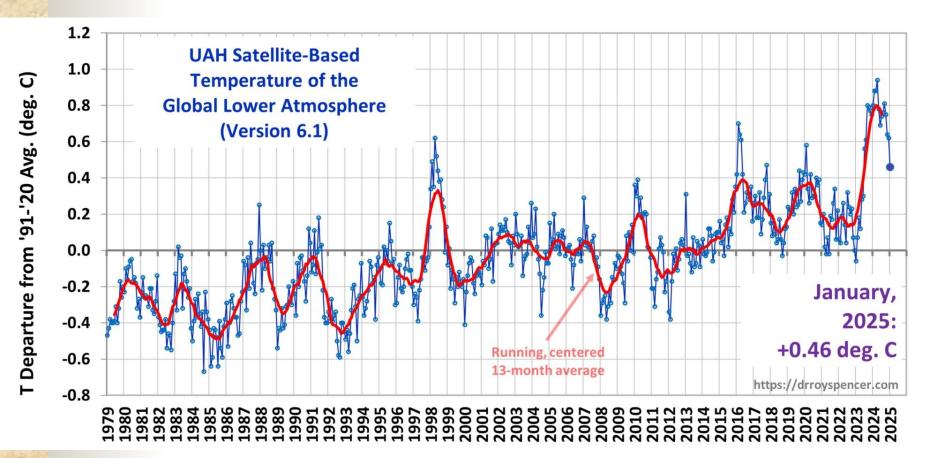


@ Dr. Heinz Lycklama

Correlation of Average Temperature and Number of Surface Stations



Satellite-Based Temperature



Issue #10: Polar Bears Thriving, Not Becoming Extinct

1960's - 5,000 Polar Bears Today - 25,000+ Polar Bears

Inconvenient Fact

@ Dr. Heinz Lycklama

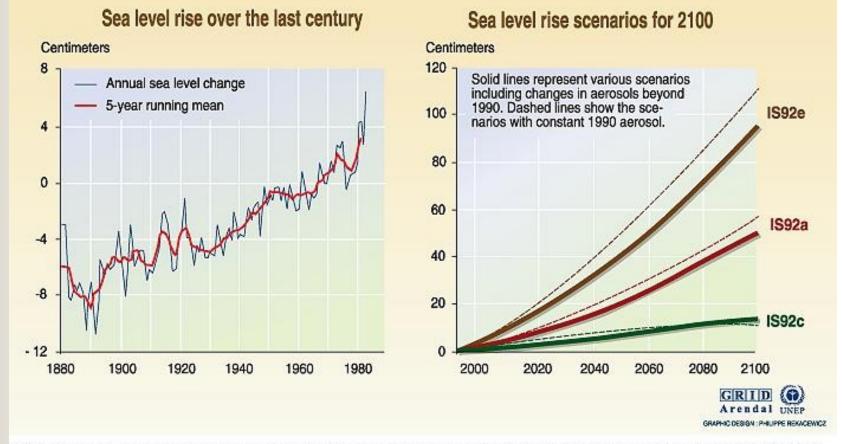
CFACT.org

Issue #11

Sea Levels Are Not Rising As Fast As Predicted

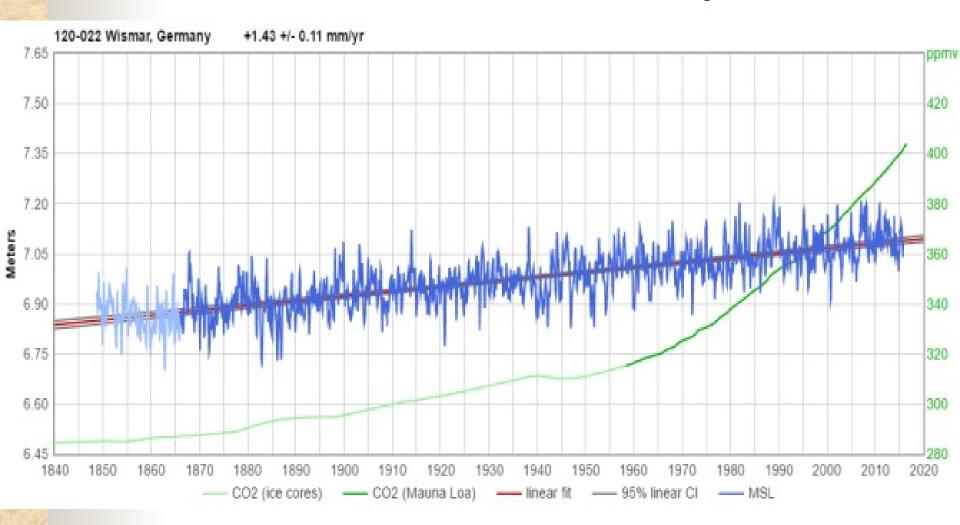
Sea Level Rise Projections

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 Lebedeff, 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.

Issue #12

Arctic Sea Ice Is Not Disappearing

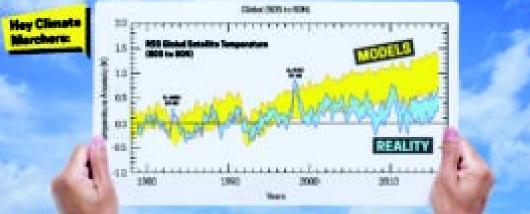


THE SCIENCE IS SETTLED. YOU'RE BEING HUSTLED!



ClimateHustle.com

ACTUAL DATA REFUTE CLIMATE MODELS



DON'T BE HUSTLED BY GLOBAL WARMING HYPE!

Hey Climate Marchers:

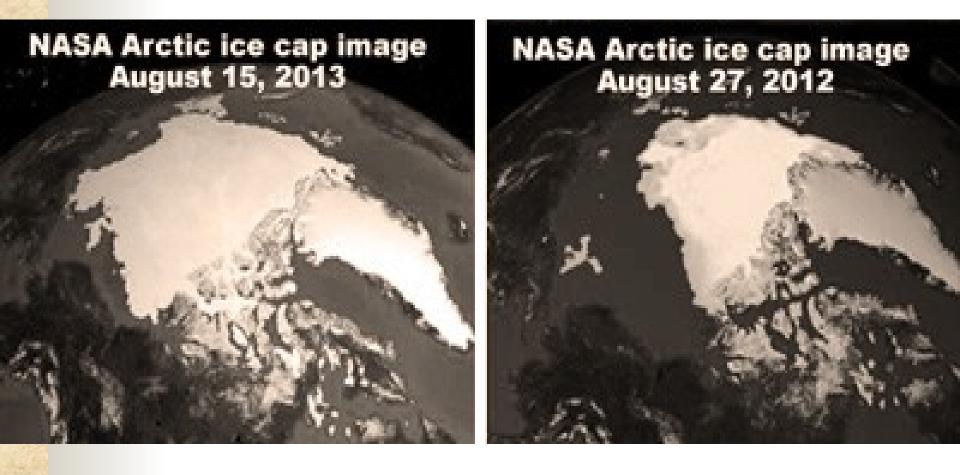
"POLAR BEARS AT



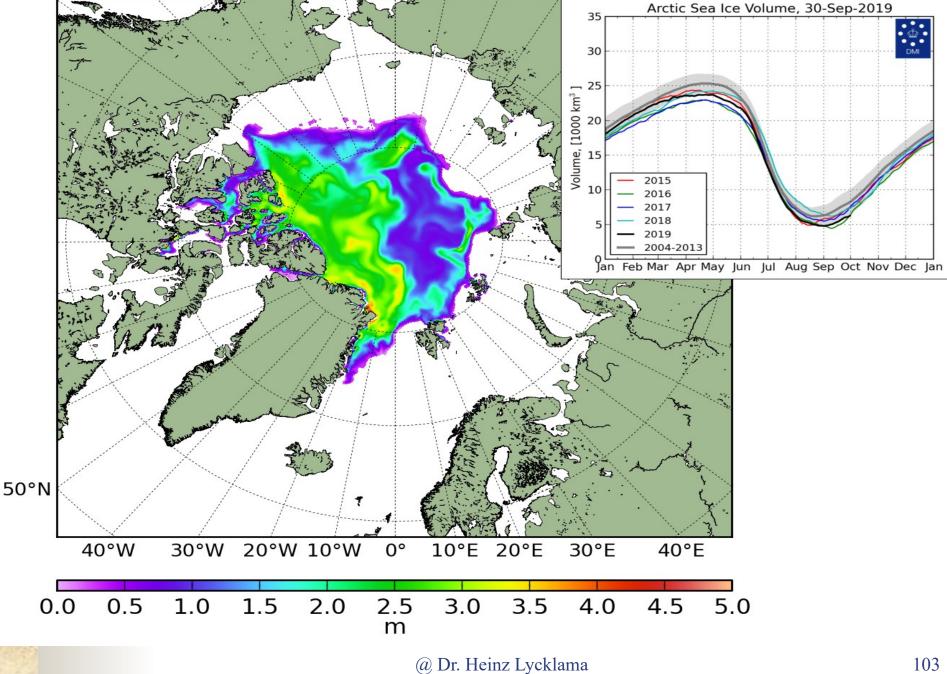
(a) Dr. Heinz Lycklama

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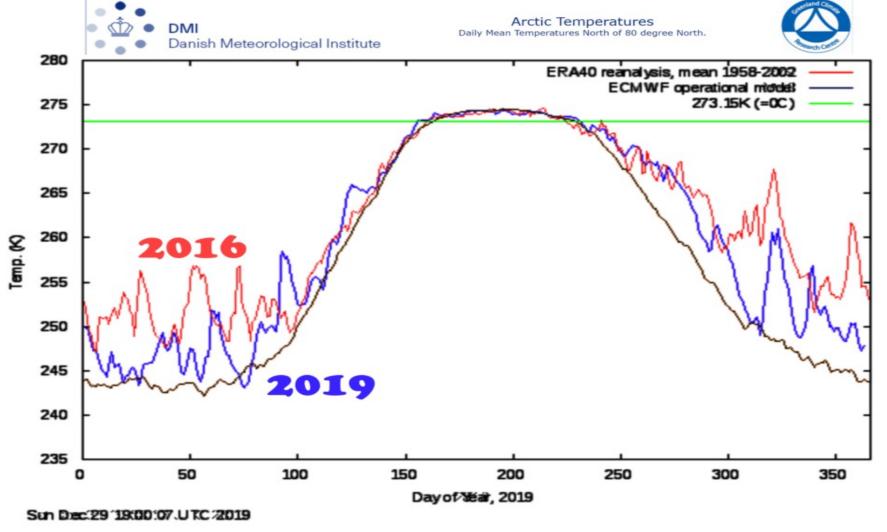
Arctic Ice Cap Actual vs. Prediction



Sea Ice Thickness, 30-Sep-2019



Winter Temperatures near North Pole



Issue #13 Weather Extremes Are Not Increasing Drought, hurricanes, tornadoes, more storms, heat waves, forest fires, ocean temperature, snow level

Drought 800 -> 2000 AD

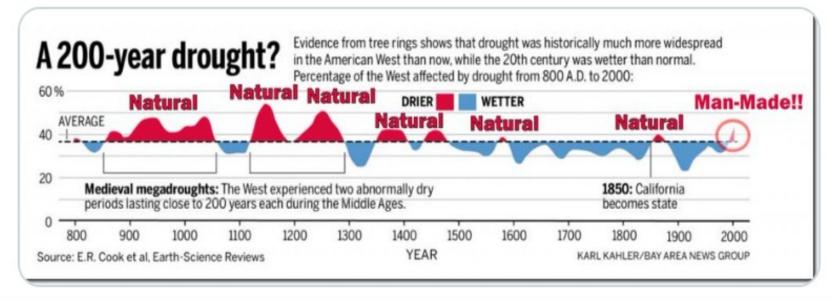


Tony Heller @Tony_Heller · 5m

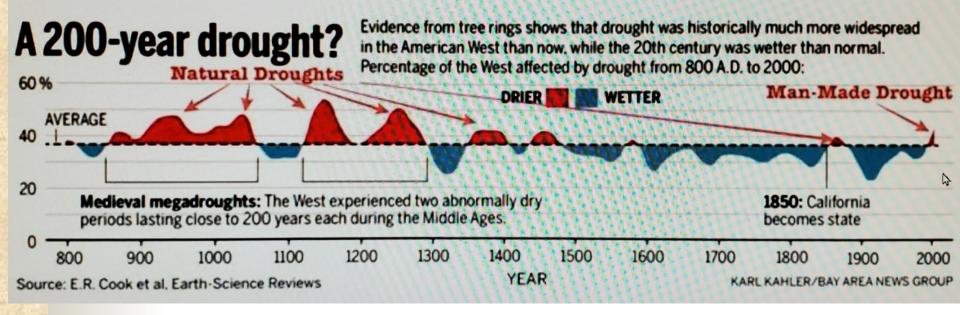
Replying to @RyanMaue

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...

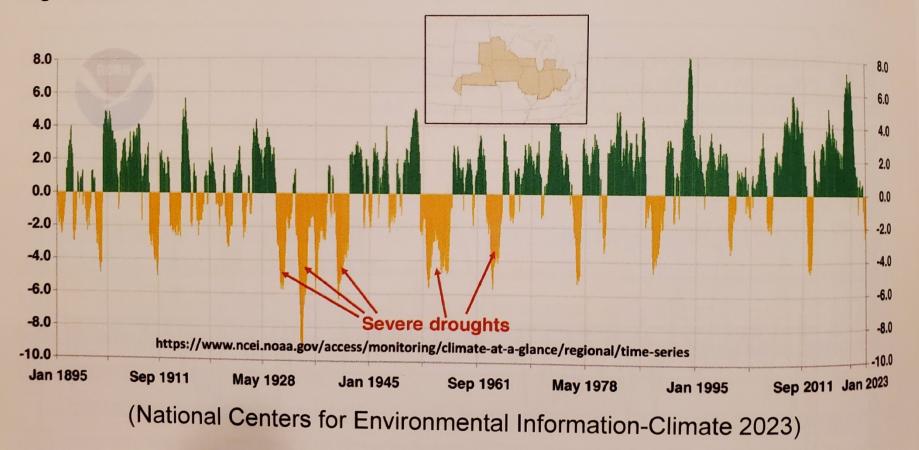


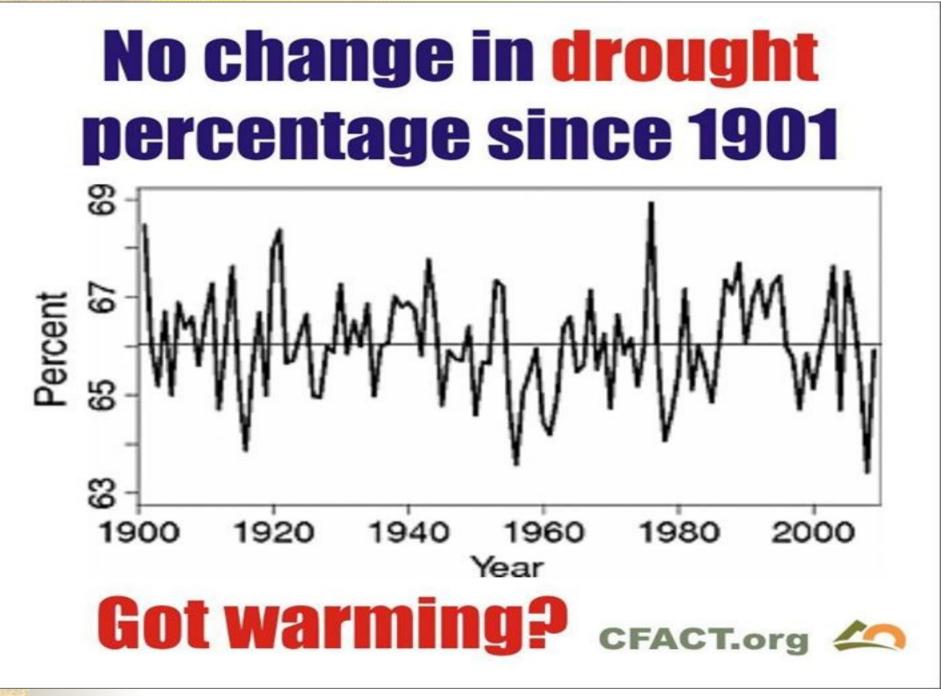
Policy Based Science Fiction



Corn Belt Drought in the US

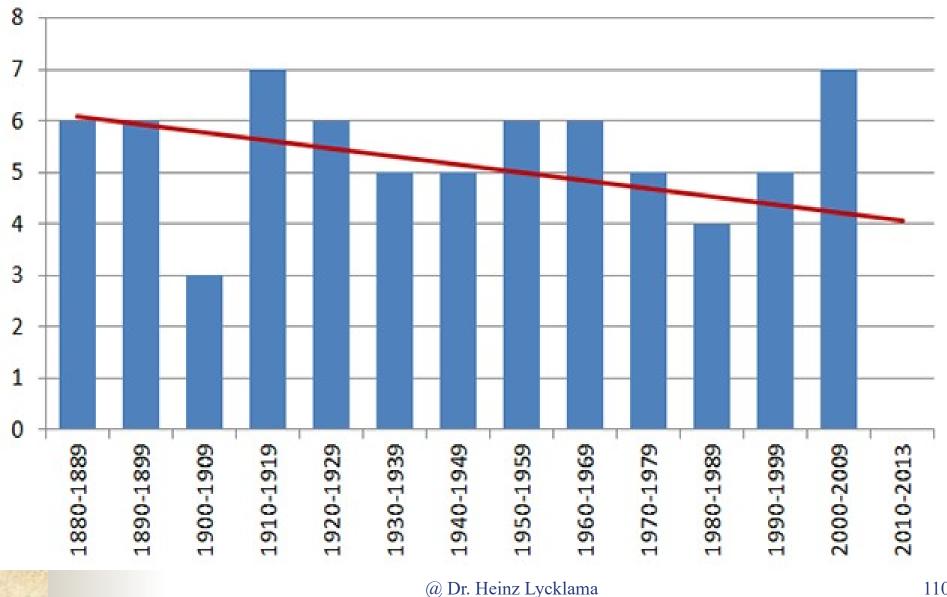
Figure 59: American Corn Belt Palmer Drought Severity Index





Intense Hurricanes since 1880 by Decade

(Cat 3,4,5 - http://www.nhc.noaa.gov/data/)



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Rank	Hurricane	Season	Fatalities
1	"Galveston"	1900	8,000-12,00
2	"San Ciriaco"	1899	3,400
3	Maria	2017	2,982*
4	"Okeechobee"	1928	2,823
5	"Cheniere Caminada"	1893	2,000
6	Katrina	2005	1,200
7	"Sea Islands"	1893	1,000-2,000
8	"Indianola"	1875	771
9	"Florida Keys"	1919	745

1:57 / 7:54

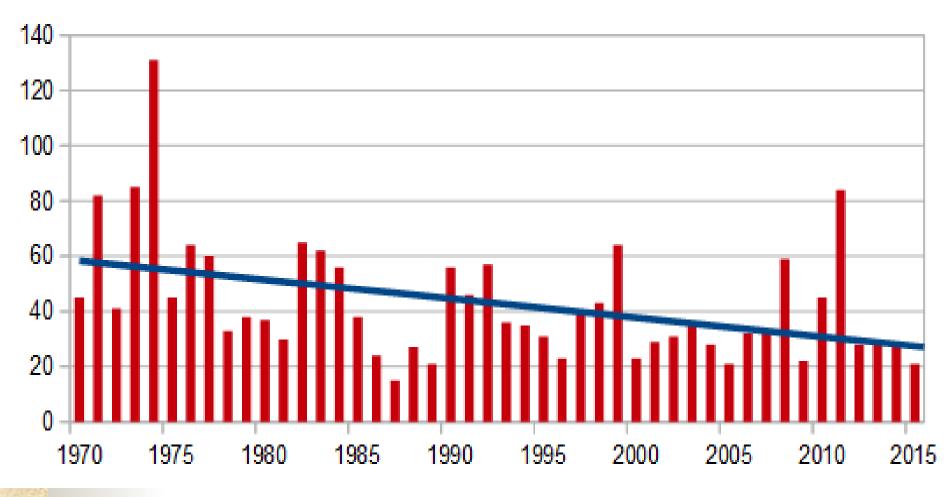
Play (k)

Climate Misinformation From The USA Today Moderator

Annual Count of US Tornadoes EF-3 and Stronger

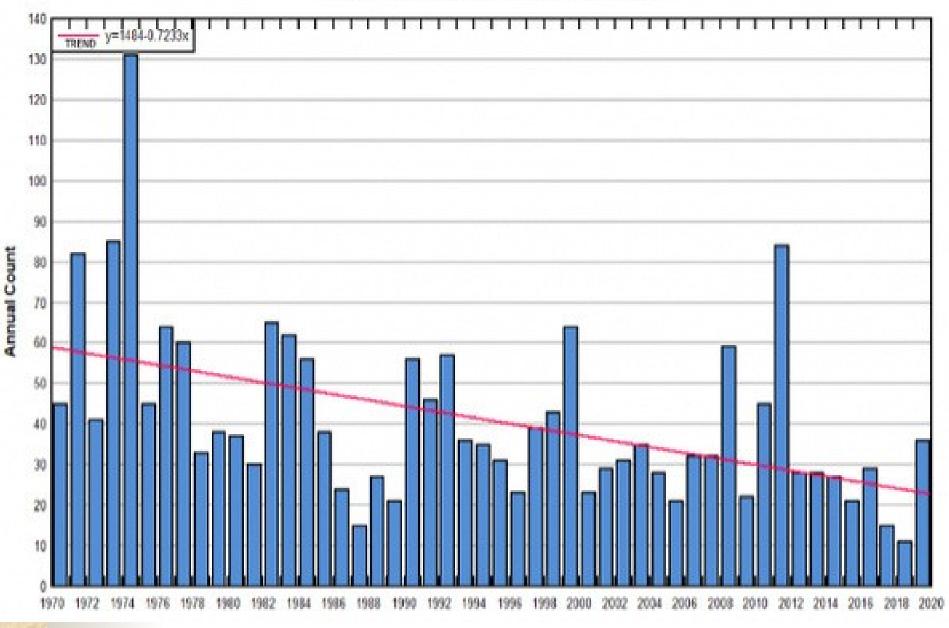
US Tornadoes

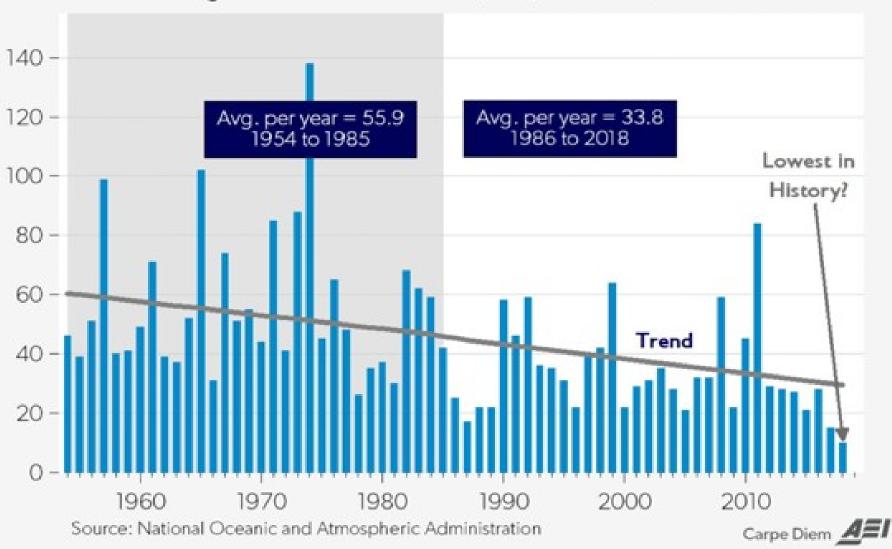
1970 to 2015



U.S. Annual Count of Strong to Violent Tornadoes (F3+) 1970-2020

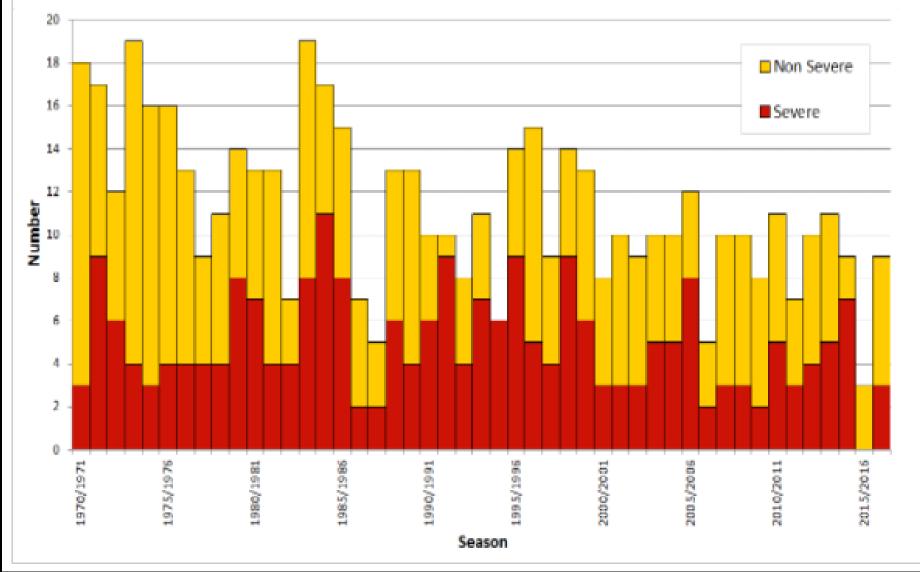
Data Source: NOAA/NWS Storm Prediction Center





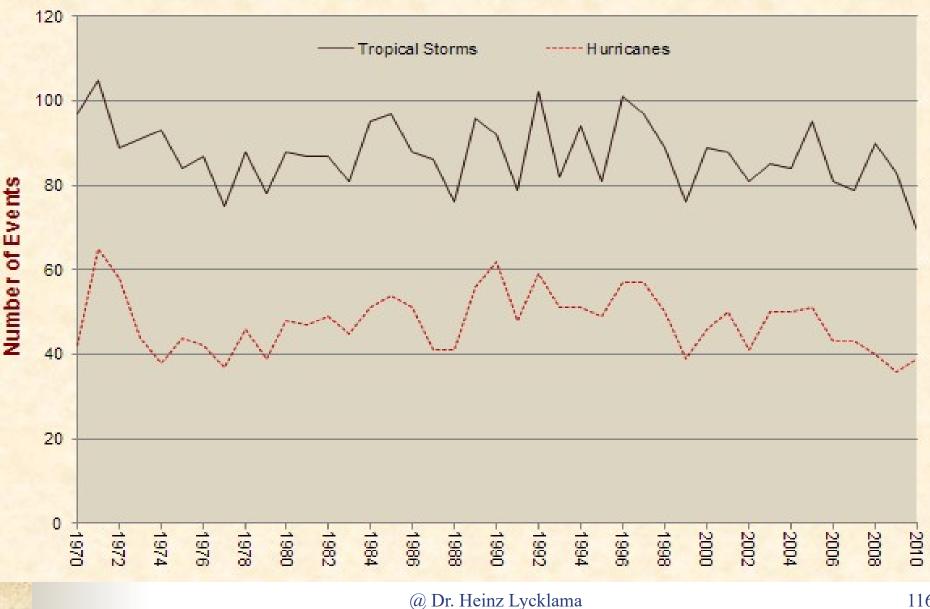
Strong to Violent Tornadoes (F3+) in the US, 1954 to 2018

Graph showing the number of severe and non-severe tropical cyclones from 1970-2017 which have occurred in the Australian region. Severe tropical cyclones are shown here as those with a minimum central pressure less than 970 hPa.

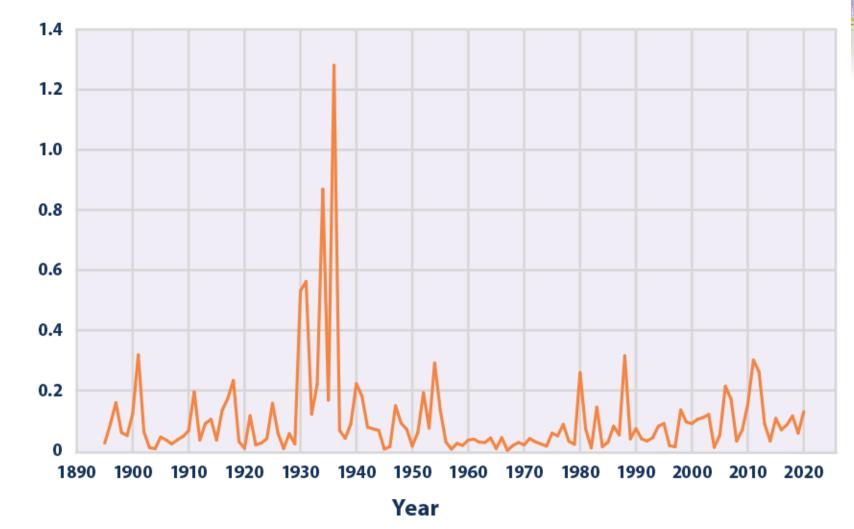


Extreme Weather?

Global Tropical Storm and Hurricane Frequency



U.S. Annual Heat Wave Index, 1895–2020

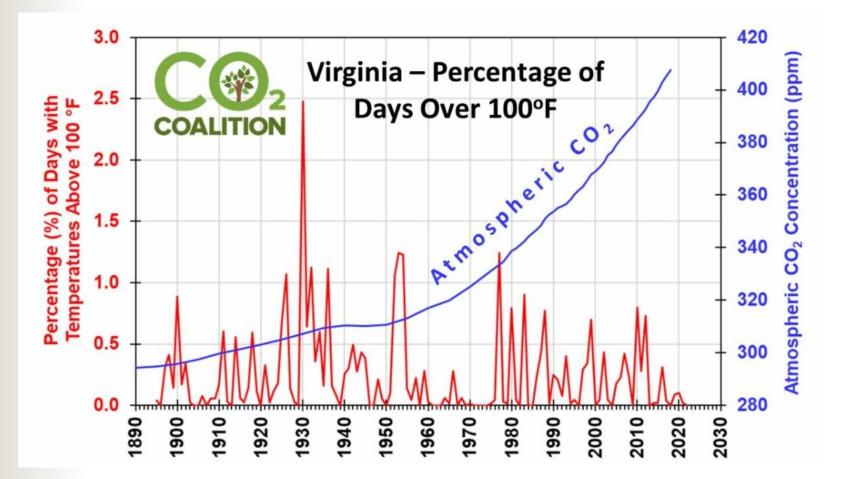


Heat Wave Index

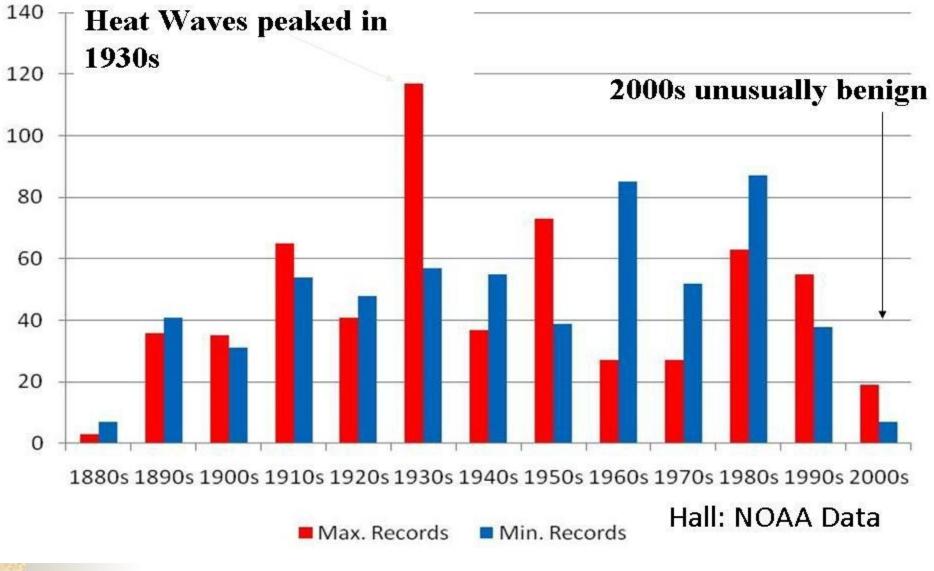
Data source: Kunkel, K. 2021. Updated version of Figure 2.3 in: CCSP (U.S. Climate Change Science Program). 2008. Synthesis and Assessment Product 3.3: Weather and climate extremes in a changing climate. www.globalchange.gov/browse/reports/sap-33-weather-and-climate-extremes-changing-climate.

For more information, visit U.S. EPA's "Climate Change Indicators in the United States" at www.epa.gov/climate-indicators.

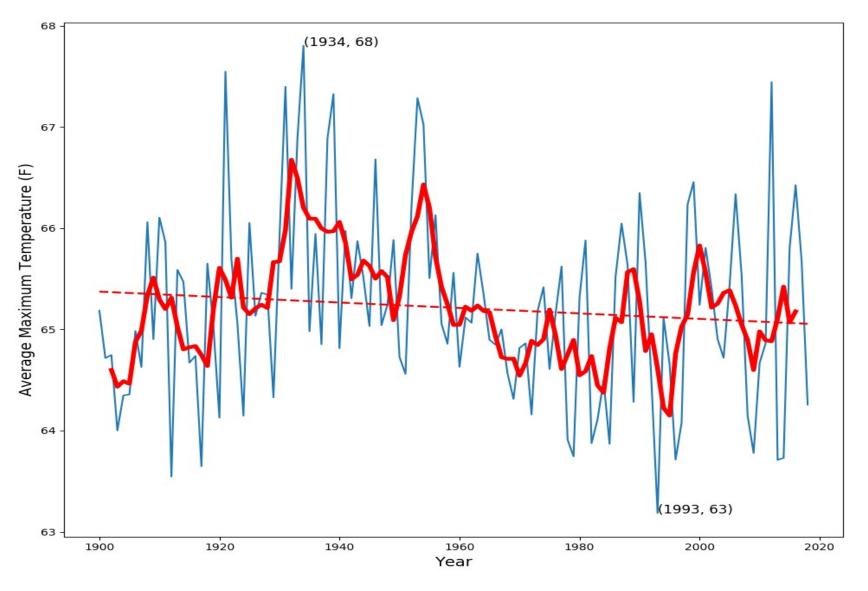
Percentage of Days Over 100 F



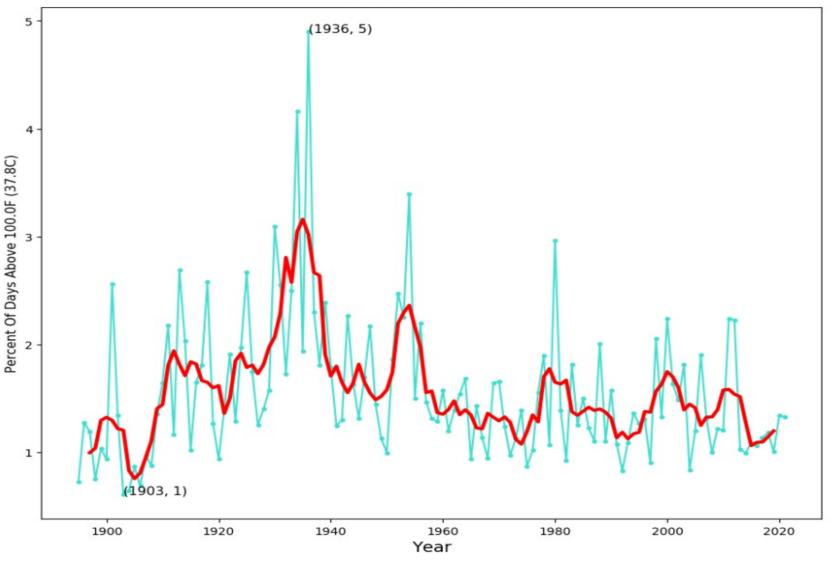
U.S. State Maximum and Minimum Monthly Records by Decade



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

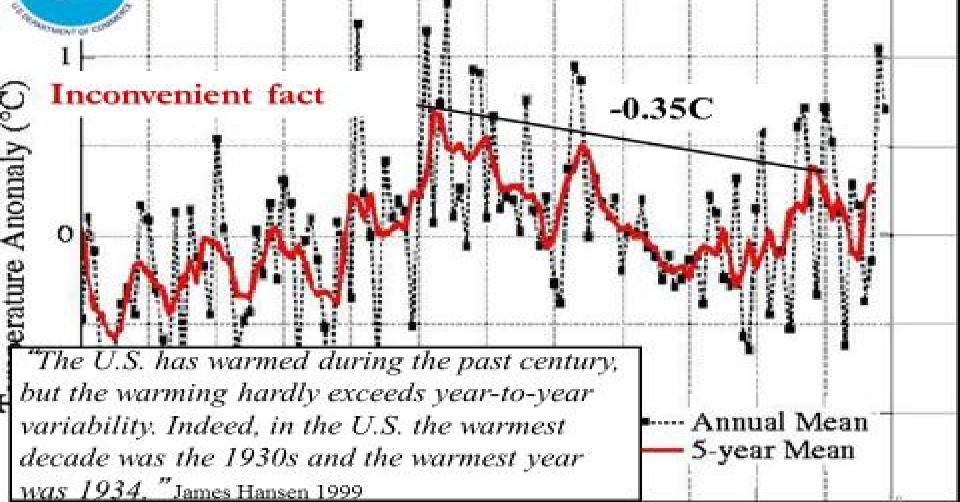


Percent Of Days Above 100.0F (37.8C) Vs. Year 1895-2021 At All US Historical Climatology Network Stations Red Line Is 5 Year Mean



U.S. Temperature, 1880-2000



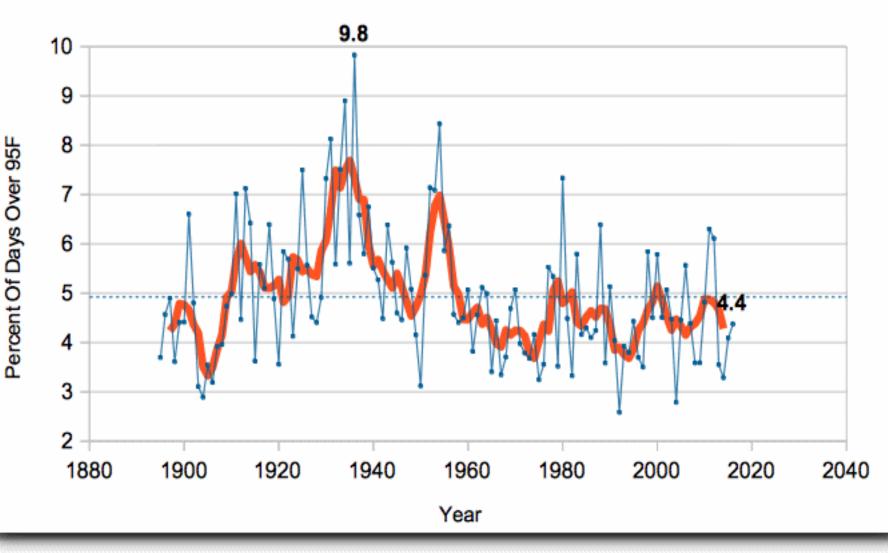


noaa

1960 *@* Dr. Heinz Lycklama

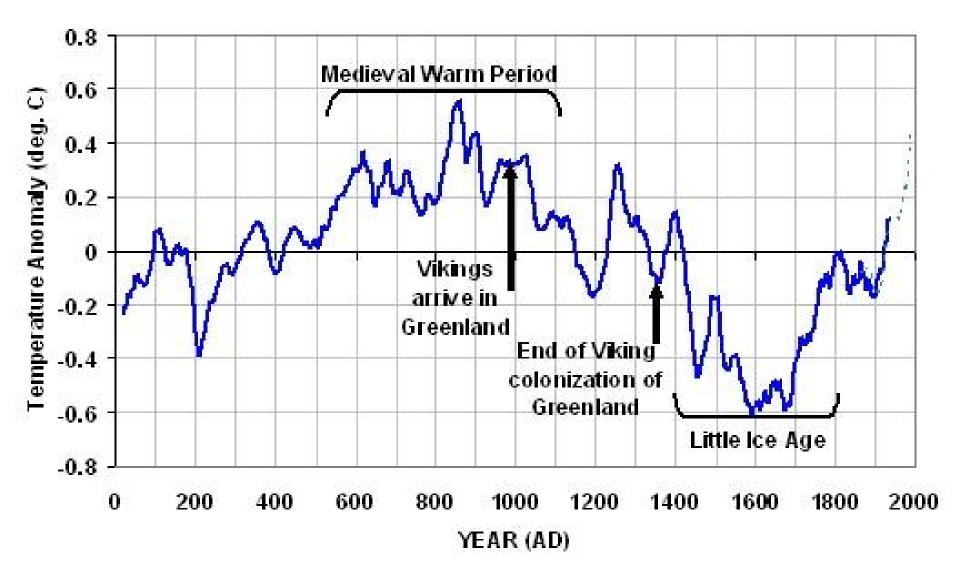
US Average Percent Of Days Over 95F (35C)

At 1192 USHCN Stations



[@] Dr. Heinz Lycklama

2000 Years of Global Temperature

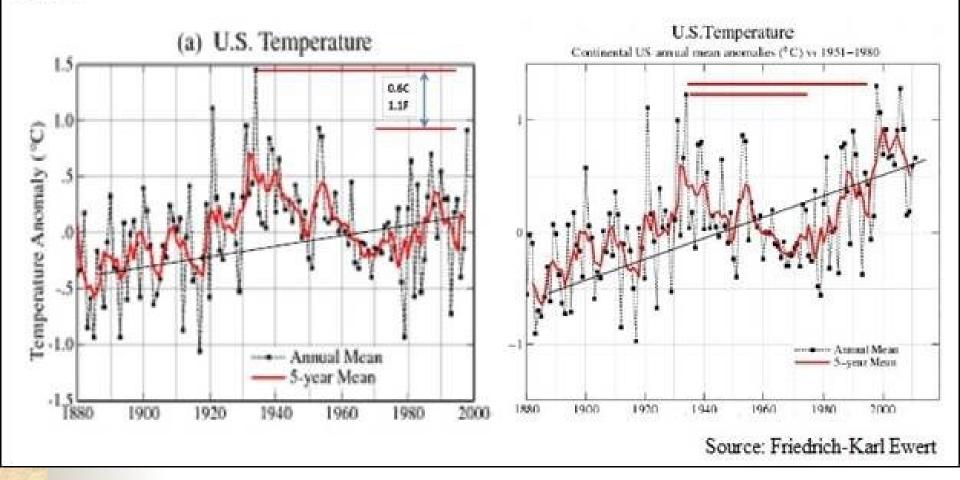




@ Dr. Heinz Lycklama

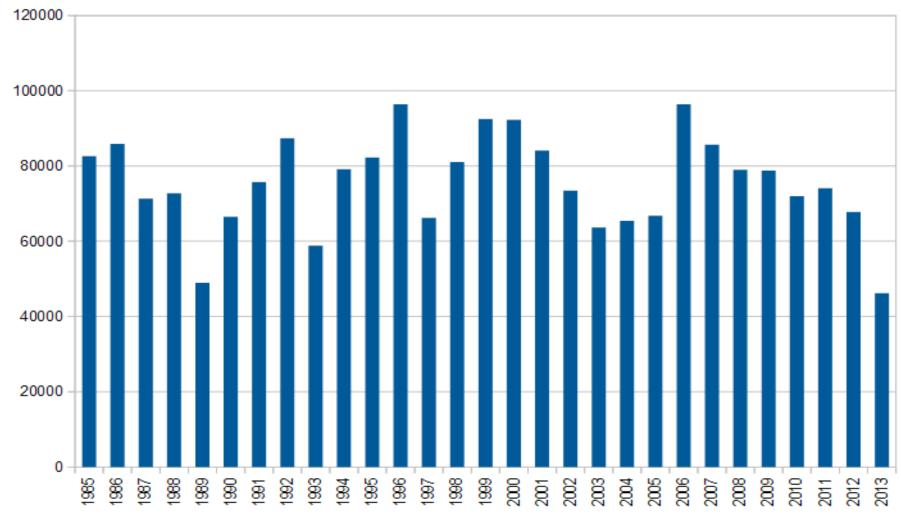
Temperature Data Manipulation

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



Frequency of U.S. Wildfires

US Forest Fire Count



Year

@ Dr. Heinz Lycklama

US Forest Fire Burn Acreage

US Forest Fire Burn Acreage

National Interagency Fire Center

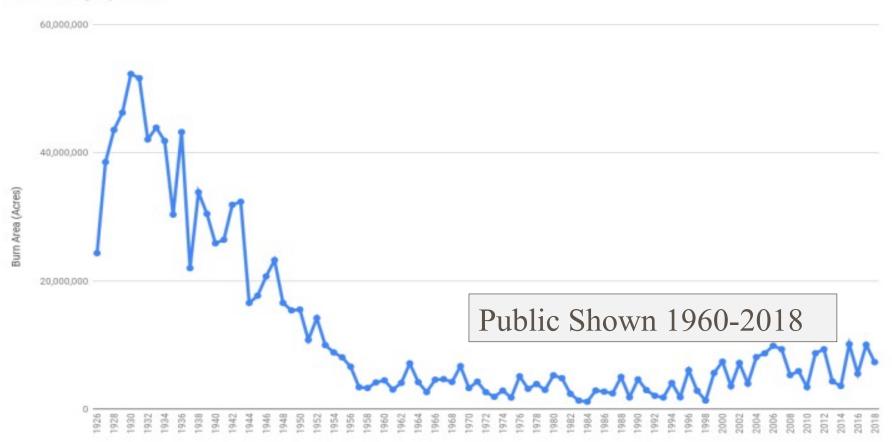


Figure 63: Area burned in the United States 1926 to 2018

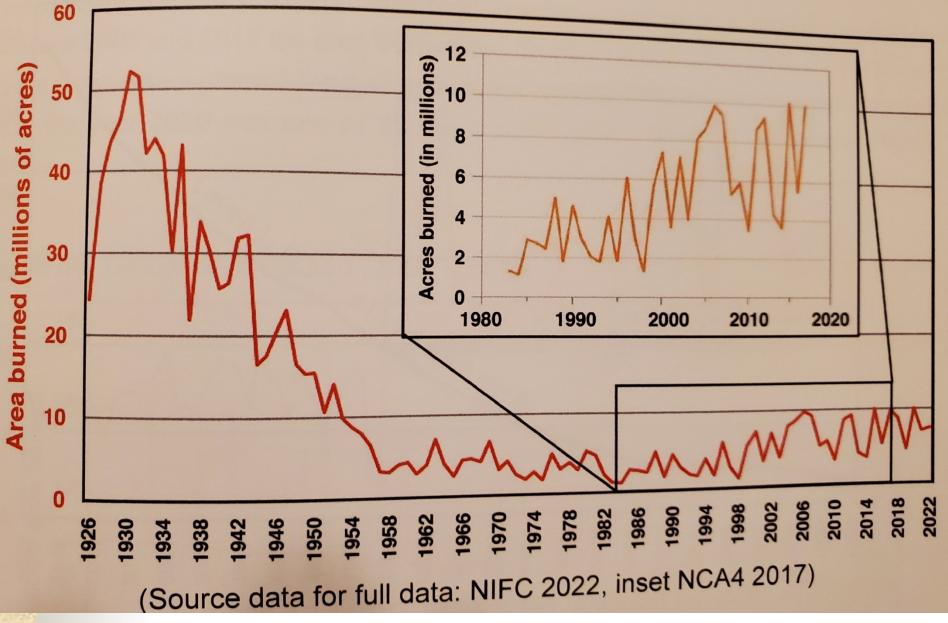
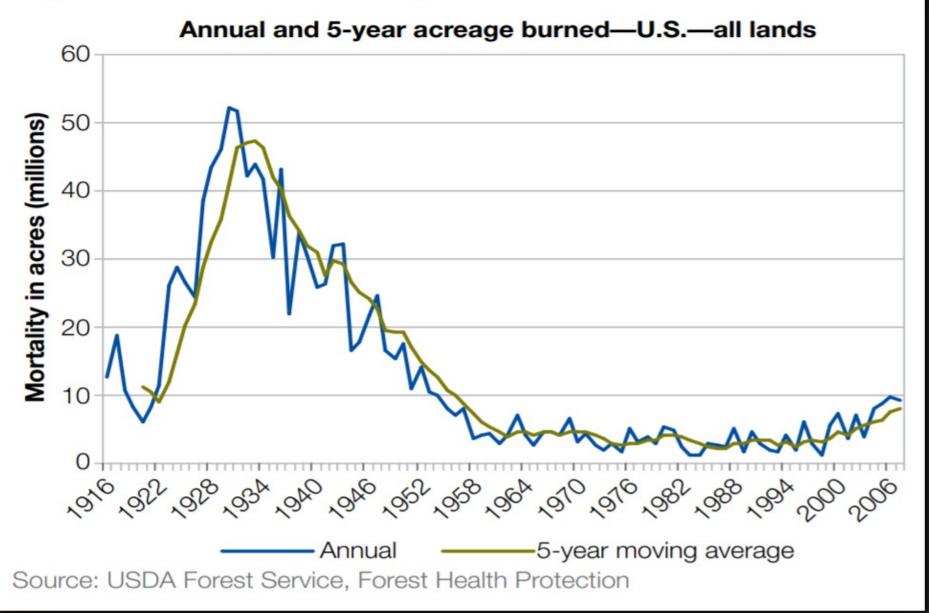
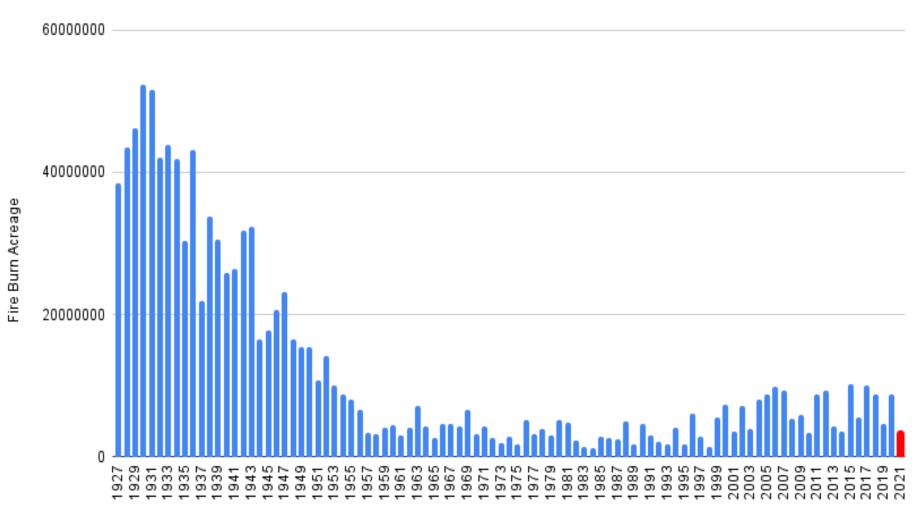


Figure 16-1. Total acreage burned.



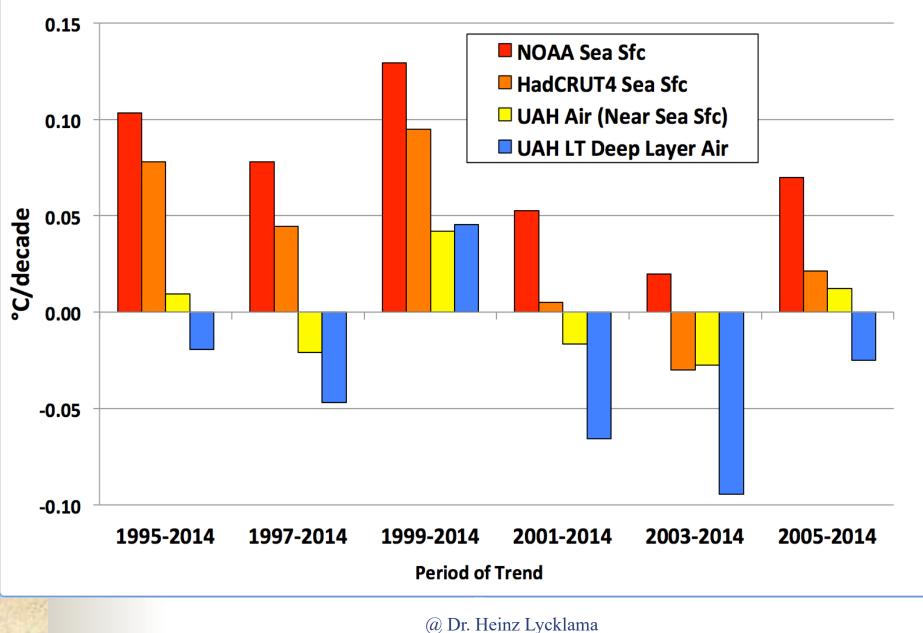
Fire Burn Acreage vs. Year

National Interagency Fire Center



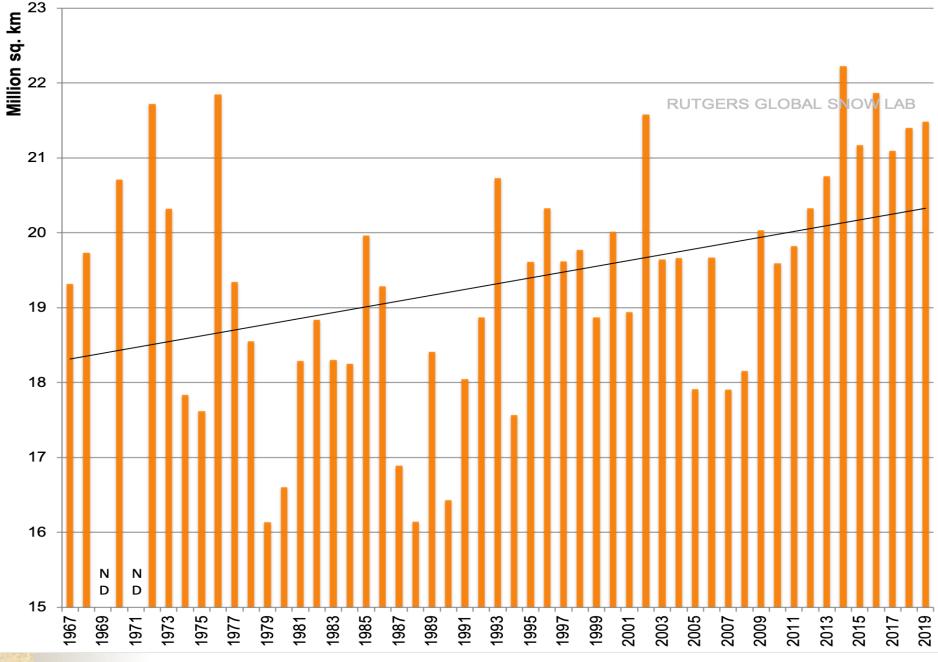
Year

Trends in Ocean Temperatures (20S-60N) 10 to 20 Year periods ending in 2014



Fall Northern Hemsiphere Snow Extent

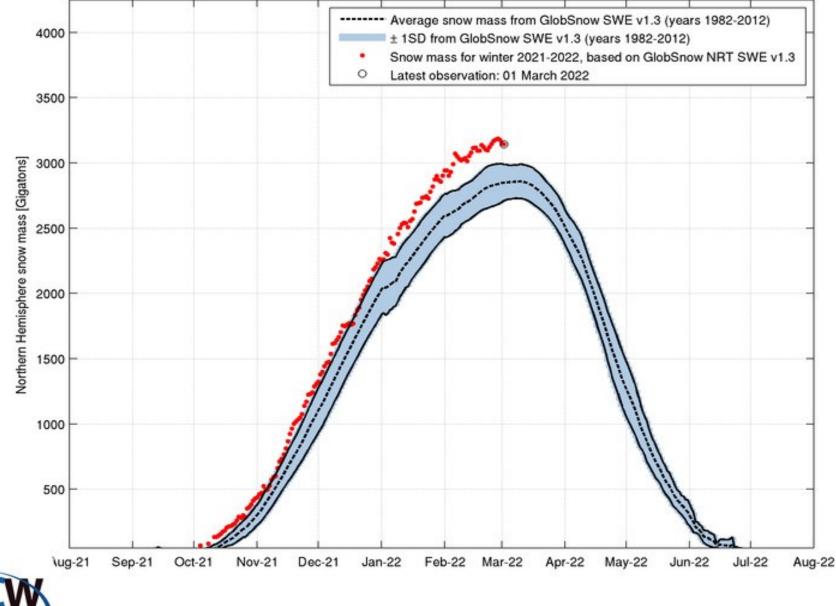
23

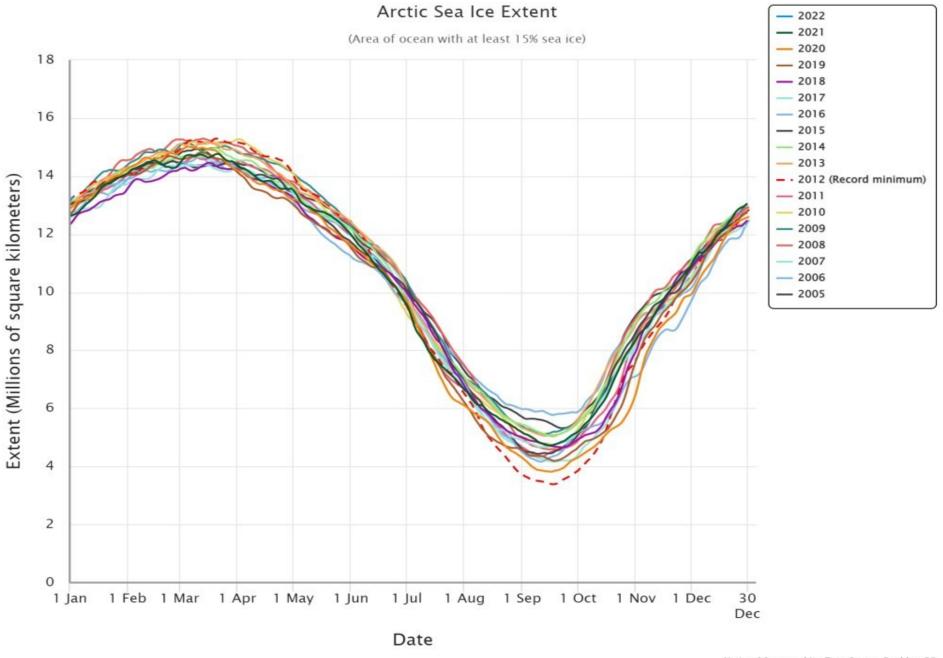




Total snow mass for Northern Hemisphere, excluding mountains

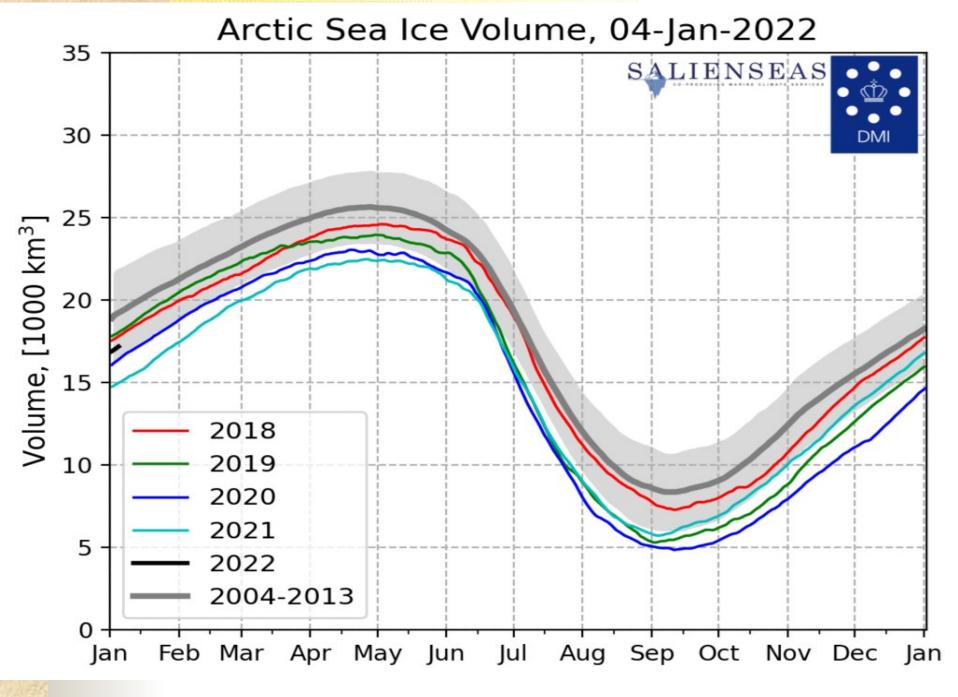


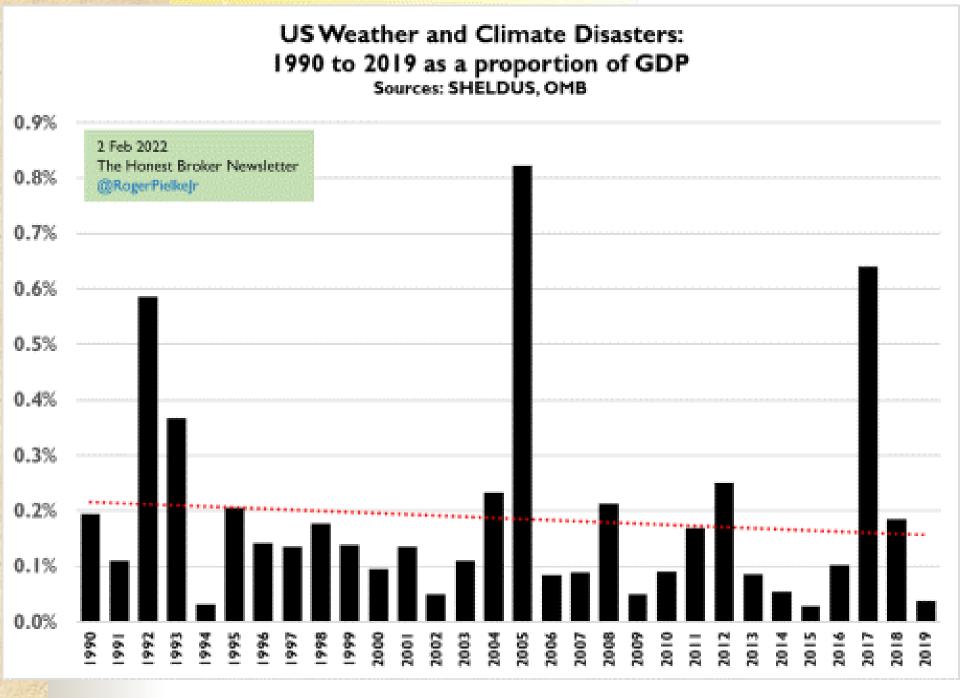




National Snow and Ice Data Center, Boulder, CO

[@] Dr. Heinz Lycklama





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** NTERGOVERNMENTAL PANEL ON climate chanee 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
- Report #6 in 2021-3: Science, Impacts, Vulnerability, Mitigation, Synthesis, Assessment

Issue #15

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

UN IPCC Reality

0 N

née

INTERGOVE

"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]

Redistribution of Wealth Imagine, if you will...

A world where people believe that the temperature of the planet can be controlled by giving more money to the government

@Conservative Tho

Climate policy used to impose Marxism

"But one must say clearly that we redistribute de facto the world's wealth by climate policy. Obviously, the owners of coal and oil will not be enthusiastic about this. 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, with problems such as deforestation or the ozone hole."

Ottmar Edenhofer, Interview with Bernard Potter in Neue Zürcher Zeitung (New Zurich Times), 14 Nov 2010.

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

Seven climate consensus studies

Oreskes 2004, Doran 2009, Anderegg 2010, Cook 2013,

caused global warming.

Carlton 2015

Two key conclusions:

Verheggen 2014, Stenhouse 2014,

Studies into scientific agreement on human-caused global warming

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 human-

TheConsensusProject.com

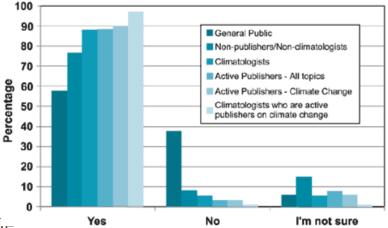
Why Scientists Disagree on GW, pg. 8ff

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

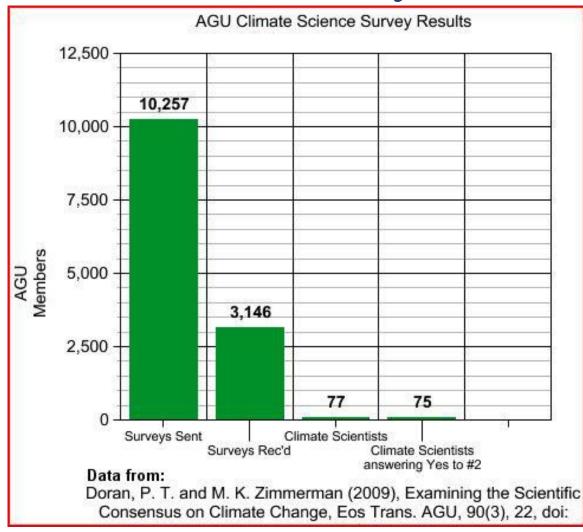
(a) Dr. Heinz Lycklama

Why Scientists Disagree on GW, pg. 13-14



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Doran GW Survey Results



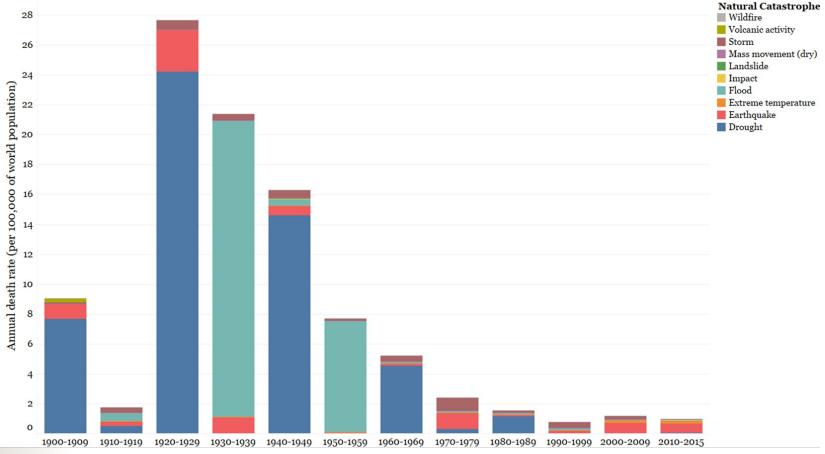
Benefits of Warming & More CO2

- Fewer natural disasters and disaster deaths
- Global warming saves lives
- Declining droughts benefit humanity
- Reduced wildfires
- Increased food production
- A greener planet
- Reduced extinctions
- Adaptation rather than expensive mitigation

Global Annual Death Rate From Natural Disasters

Global annual death rate from natural disasters

Global death rate measured as the number of deaths per 100,000 of the world population (by decade 1900s to 2000s; and six years from 2010)



Data source: OFDA/CRED International Disaster Database – www.emdat.be – Université Catholique de Louvain – Brussels – Belgium. The author Max Roser licensed this visualisation under a CC-BY-SA licence. You are welcome to share but please refer to its source where you find more information: <u>https://ourworldindata.org/natural-catastrophes/</u>

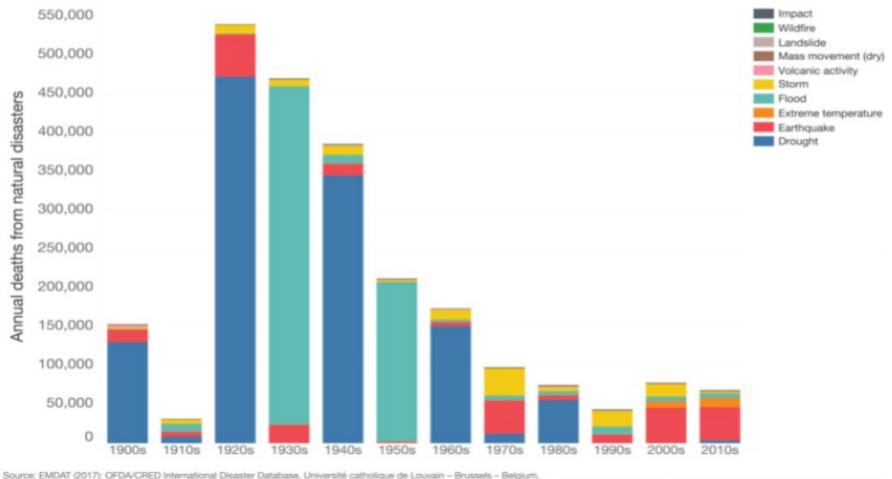
@ Dr. Heinz Lycklama

Our World

in Data

Global annual deaths from natural disasters, by decade

Absolute number of global deaths from natural disasters, per year. This is given as the annual average per decade (by decade 1900s to 2000s; and then six years from 2010-2015).



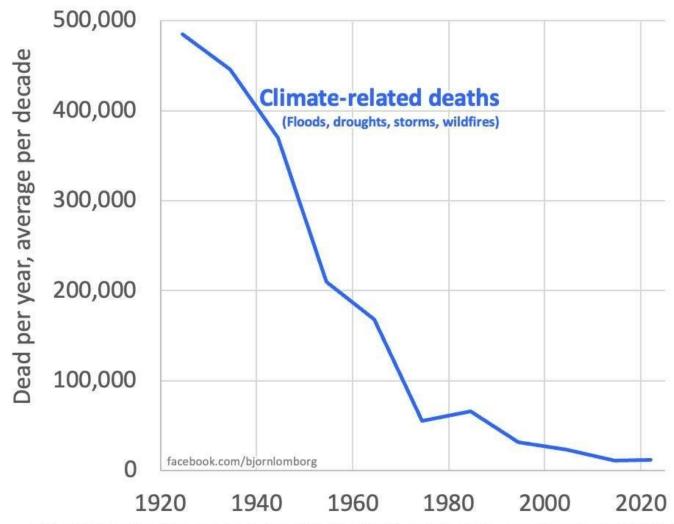
Source: EMUAT (2017): OF DAVCHED International Disaster Database, Universite catholique de Louvan – Brussels – Beigu The data visualization is available at OurWorldinData.org. There you find research and more visualizations on this topic.

Licensed under CC-BY-SA by the authors Hannah Ritchie and Max Roser.

Average annual global deaths from natural disasters by decade, 1900-2015²

Climate-related Deaths: 1920-2023

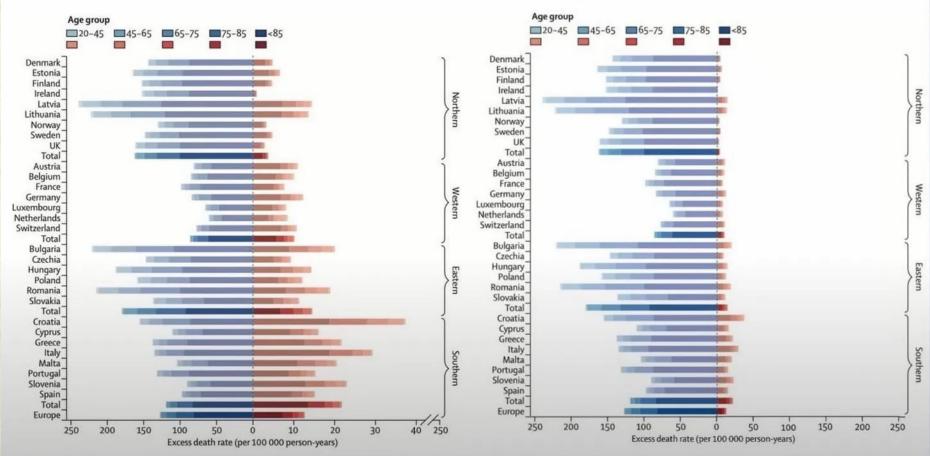
Deaths have declined 97+% because richer, smarter and more resilient societies reduce disaster deaths. This swamps any potential climate signal



OFDA/CRED International Disaster Database Jan 1, 2024, https://public.emdat.be, deaths averaged over decades 1920-29, 1930-1939, ... 2010-2019 placed at decadal midpoints (1924.5, 1934.5 etc), with average data for 2020-23 placed at 2022. Update of Fig. 17 from https://www.sciencedirect.com/science/article/pii/S0040162520304157.

10x more Cold Deaths than Heat Deaths in Europe

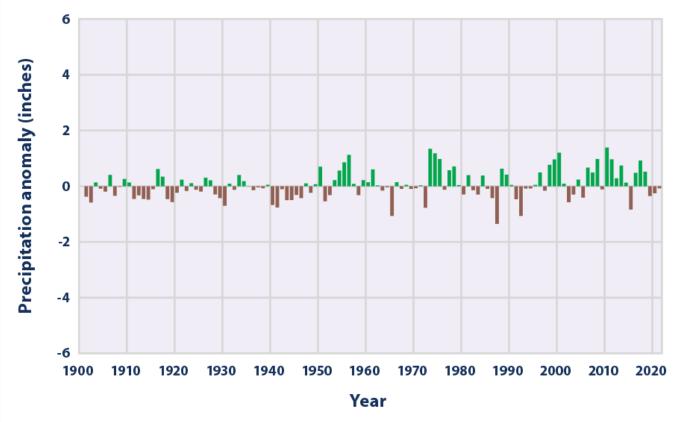
On the left, how it is presented, on the right with equal axes



2023 paper: "Excess mortality attributed to heat and cold: a health impact assessment study in 854 cities in Europe" based on 2000-19 data, www.thelancet.com/journals/lanplh/article/PIIS2542-5196(23)00023-2/fulltext, Figure 3 left, Figure 3 with equal axes for rates of heat deaths (red) and cold death (blue) on right. twitter.com/bjornlomborg

Globally Increasing Precipitation

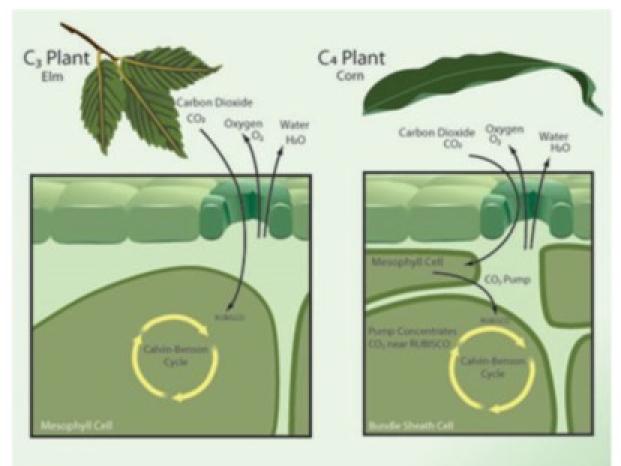
Precipitation Worldwide, 1901–2021



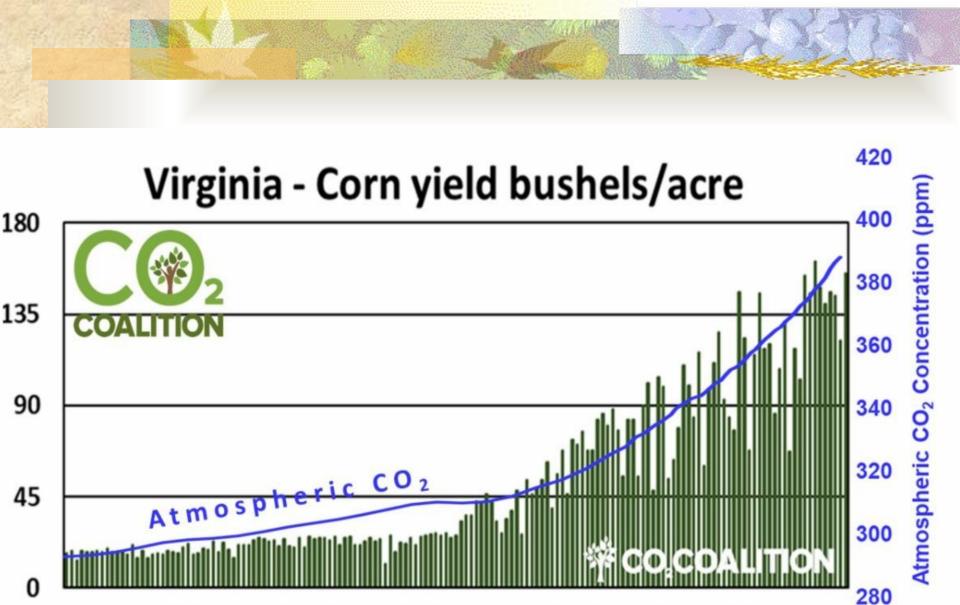
Data source: NOAA (National Oceanic and Atmospheric Administration). 2022. Extended version of GPCC dataset originally published in: Blunden, J., and T. Boyer (eds.). 2021. State of the climate in 2020. B. Am. Meteorol. Soc. 102(8):Si–S475. https://doi.org/10.1175/2021BAMSStateoftheClimate.1.

For more information, visit U.S. EPA's "Climate Change Indicators in the United States" at www.epa.gov/climate-indicators.

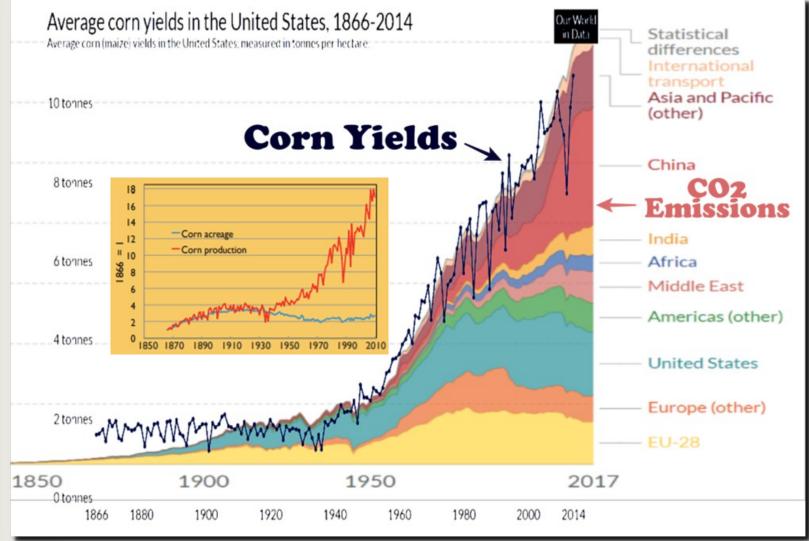
How CO2 As Plant Food Works



More CO₂ greatly benefits plants because: 1. They need less water if there is more CO₂. 2. More CO₂ suppresses harmful photorespiration.



Average Corn Yields in the US



Here is what happens with more CO2



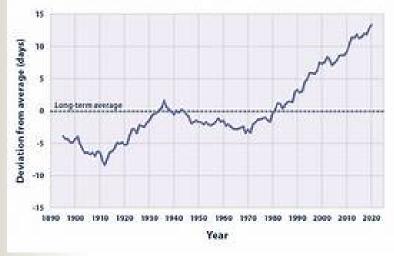
385 ppm

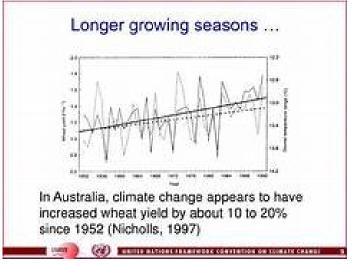
535 ppm

685 ppm

835 ppm

Increased Growing Season & A Greening Planet

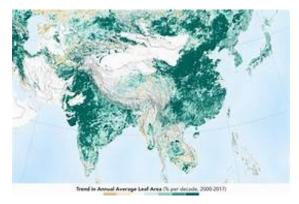




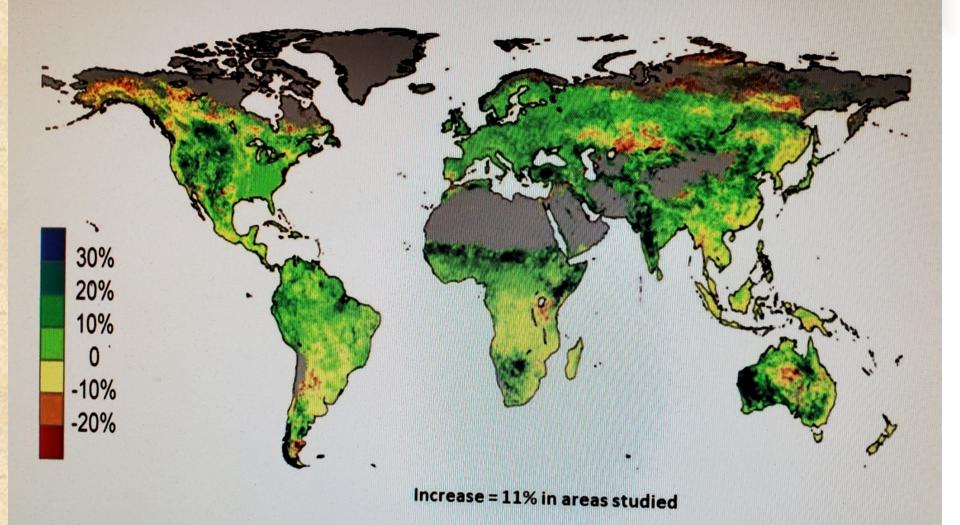
Observed Increase in Frost-Free Season Length







Global Greening From CO2 Fertilization: 1982-2010



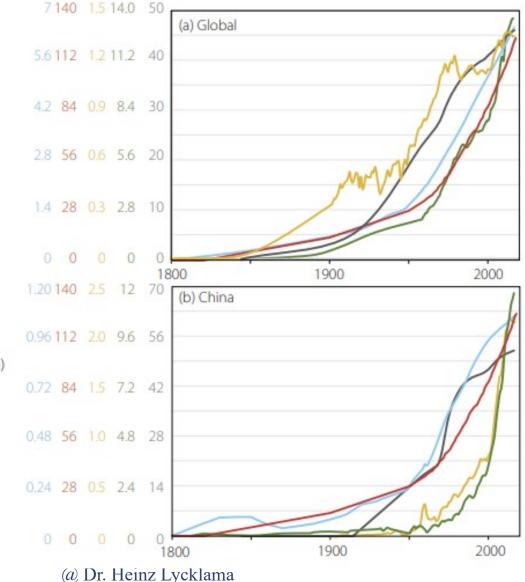
Donohue et al, GRL (June 2013) DOI: 10.1002/grl.50563

CO2 and Human Welfare

Figure 16: Carbon dioxide and human welfare.

(a) World and (b) China. Updated from Goklany (2012a). Indicators of human welfare are: changes in GDP (per capita at PPP in 2011 USD), population and life expectancy. Carbon dioxide is represented by changes in emissions per capita and global concentration. All changes versus 1800 value, or nearest alternative date. Note that in 1800, emissions per capita were negligible.Sources citation in main text.

- Changes in carbon dioxide:
- Concentration (ppm)
 - Emissions per capita (t carbon)
 - Changes in human welfare:
- Life expectancy Per-capita GDP (000 2011\$)
- Population (billions)



What Do The Experts Say?



More CO2 actually benefits the world.

It is not a pollutant at all, and we should have the courage to do nothing about CO2 emissions

--Dr. William Happer

CO2 Coalition

- Established in 2015 for the purpose of educating thought leaders, policy makers, and the public about the important contribution made by carbon dioxide to our lives and the economy.
- Prominent members include:
 - William Happer, PhD in Physics from Princeton
 - John Clauser, PhD & Nobel Prize in Physics in 2022
 - Patrick Moore, Co-Founder Greenpeace
 - Gregory Wrightstone, MS in Geology Exec. Director
 - Richard Lindzen, PhD in Physics from Harvard
 - Roy Spencer, PhD in Meteorology
 - William van Wijngaarden, PhD in Physics

Dr. William Happer's View

- Basic science shows increasing levels of CO2, N2O, and CH4 will not cause a "climate emergency." This is another "extraordinary popular delusion and madness of crowds" in the sad history of human lust for money and power, folly and cowardice.
- More **CO2** will **benefit life on Earth** because of its value to agriculture, forestry and photosynthetic life.
- More N2O and CH4 will have negligible effects on Earth's climate.
- Rational people need to push back against climate fanaticism, which is not based on science at all.
 Appeasement will not work.

Dr. William Happer – 1/25/25

"Those who think that way, in many cases, mean very well. But they have been misled. As a scientist who actually knows a lot about climate (and I set up many of our climate research centers when I was at the Department of Energy in the early 1990s) I can assure you that there is no climate emergency. *There will not be a climate emergency. ... Policies* to address this phony climate emergency will cause great damage to American citizens and to their environment."

Dr. William Happer – 1/25/25

- By far, <u>water vapor is the dominant greenhouse gas</u>.
 Carbon dioxide is secondary and decidedly minor. Happer illustrates that each primary greenhouse gas prevents certain wavelengths from freely escaping to space. He adds that:
 - "This keeps Earth's surface temperature warmer than it would be (by about 20 or 30 degrees). [C or about 35 to 55°F] <u>The Earth would be an ice cube if it were not for</u> water vapor and CO2; and when I say water vapor, you should understand that I really mean water vapor and clouds, the condensed form of water. Clouds are at least as important as greenhouse gases, and they are very poorly understood to this day."

Climate Regulations Based on a "Hoax"

- Two prominent climate scientists have taken on the EPA new rules to cut CO2 emissions in electricity generation, arguing that the regulations "will be disastrous for the country, for no scientifically justifiable reason."
- William Happer and Richard Lindzen argued that the claims used by the EPA to justify the new regulations are based on political opinions and speculative models that have consistently proven to be wrong.
 - "The scientific method proves there is no risk that fossil fuels and carbon dioxide will cause catastrophic warming and extreme weather."

Steve Koonin, PhD Physics – 1/18/25

- Koonin then shows that 73 models overestimate the warming of the globe. These models are the ones cited by the UN Intergovernmental Panel on Climate Change and its collaborators as proof of human caused global warming. One problem that Koonin discusses is the <u>failure of the models to correctly forecast clouds</u>. As Koonin states:
- "Natural fluctuations in the height and coverage of clouds have at least as much of an impact on the flows of sunlight and heat as do human influences. But how can we possibly know global cloud coverage say 10, let alone 50 years from now? Obviously, we can't. But to create a climate model, we have to make assumptions. That's a pretty shaky foundation on which to transform the world's economy.

Kees de Lange, Amsterdam Vrije Universiteit, Prof Emeritus - Climate Change Conclusions

There is no climate crisis due to Greenhouse gases

CO₂ is harmless, beneficial, causes global greening and increased agricultural production, essential for feeding a growing world population

Net zero goals are unnecessary, impossible and economically harmful

Renewables and their necessary back up are unsuitable to provide a growing world population with the reliable and affordable energy required to live in some comfort

To take care of energy requirements on a global scale, nuclear energy (fission first, fusion hopefully later) is unavoidable



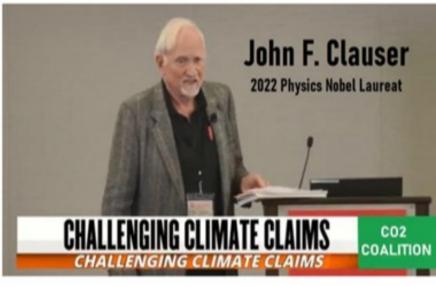
Dr. John Clauser – 2022 Physics Nobel Laureate "Clouds are the Thermostat for Earth's Climate"

Climate Change Science, Climate Initiatives, Society in General Clauser's Case: GHG Science Wrong, Clouds the Climate Thermostat

This post provides a synopsis of Dr. John Clauser's Clintel presentation last May. Below are the texts from his slides gathered into an easily readable format. The two principal takeways are:

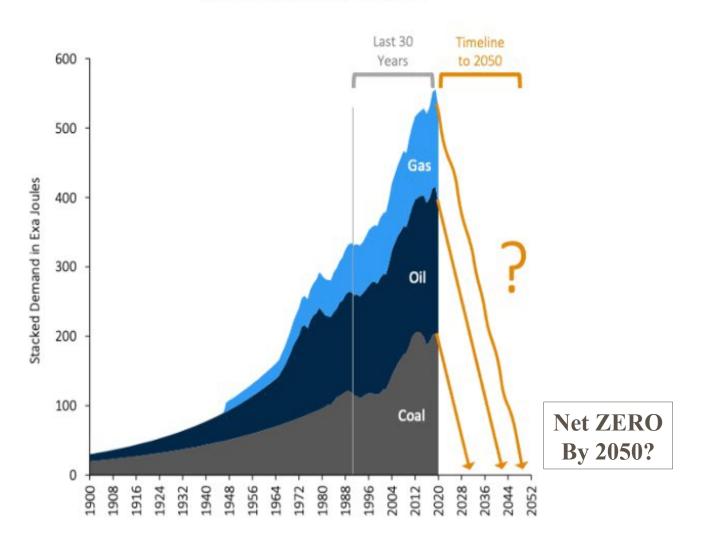
A. IPCC's Green House Gas Science is
Flawed and Untrustworthy
B. Clouds are the Thermostat for Earth's
Climate, Not GHGs.

I confidently assert that the climate crisis is a colossal trillion-dollar hoax.



Global Energy Needs Won't Disappear Overnight

Traditional Energy Demand



In Conclusion

- UN IPCC CC models have failed miserably
- Man-made causes are insufficient
 - CO2 & CH4 components of GHG have small effect
- Natural causes of CC are more credible
 - Sun energy alone is insufficient
 - Cosmic radiance with sunspots can explain CC
 - Pacific Decadal Oscillation may explain CC
- Paris Climate Agreement <u>NOT</u> a solution for a <u>non-</u> <u>existent problem</u>
- Clouds are the thermostat for earth's climate, not GHSs
- Benefits of Warming and More CO2

What News Media Isn't Telling You

- Global Warming from 1978 to 1998 has been replaced by Global Cooling (~20 years)
 - The Antarctic ice sheet is growing, not melting
- Sea level is rising 7" per century, not 20 ft.
- Some snowfall records set in the past 10 years
- CO2 & CH4 <u>cannot</u> cause much global warming
- Clouds, sun cycles, ocean currents, volcanoes
 (all natural) <u>can and do</u> control climate change
- Severe storms **<u>are not</u>** more frequent than normal

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

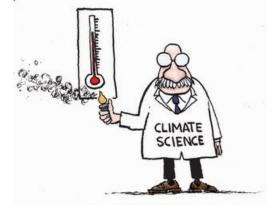


Gen. 8:22, *While the earth remains, seedtime and harvest, cold and heat, summer and winter, day and night, shall not cease.*

Climate Change is **NOT** a Crisis Let's Not Panic!

Thank you for your attention!

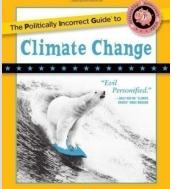
> Dr. Heinz Lycklama <u>heinz@osta.com</u> <u>HeinzLycklama.com</u>



AN INCONVENIENT TRUTH

HeinzLycklama.com/RefutingGWA

60+ Books Refuting GWA



Marc Moran

Unsettled

?

WHAT CLIMATE SCIENCE TELLS US, WHAT IT DOESN'T, AND WHY IT MATTERS

Steven E. Koonin Jormer underbecretary for science, U.S. department of energy under the grama daministration

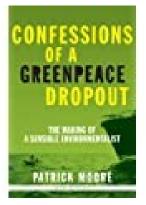
APOCALYPSE NEVER

WHY ENVIRONMENTAL ALARMISM HURTS US ALL

MICHAEL SHELLENBERGER

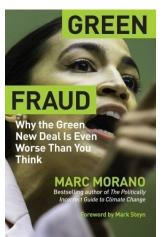


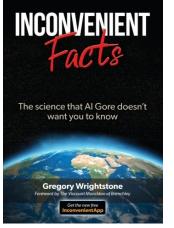
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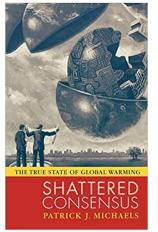


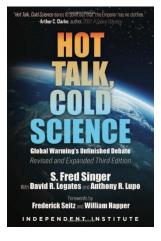
W YOU BUY ONLY ONE HOOK ON CLINICE CALMER THEI SHOULD BE THE BOOK." - ACTING MINEY

HALSE AL! RM HOW CLIMATE CHANGE PANIC COSTS US TRILLIONS. HURTS THE POOR, AND FAILS TO FIX THE PLANET BJORN LOMBORG HPDATED ENTION









References

- Easterbrook/280.ppt
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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

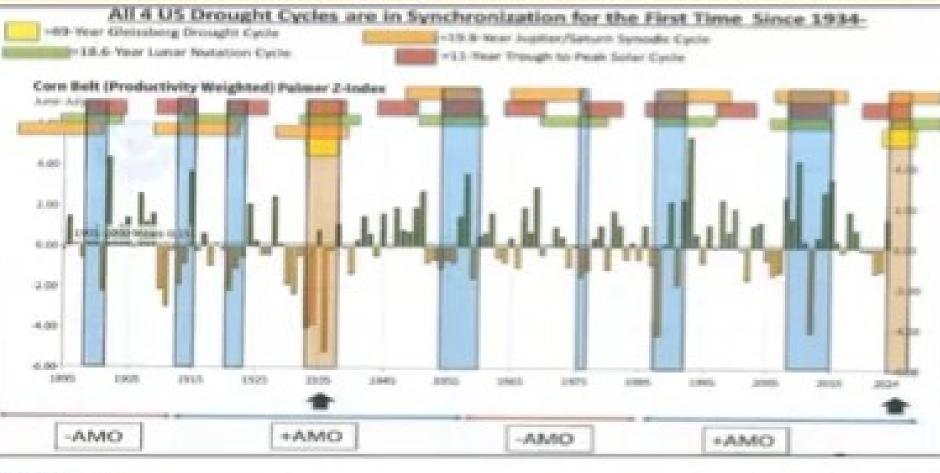
More References

- 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)

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

All 4 US Drought Cycles in Sync



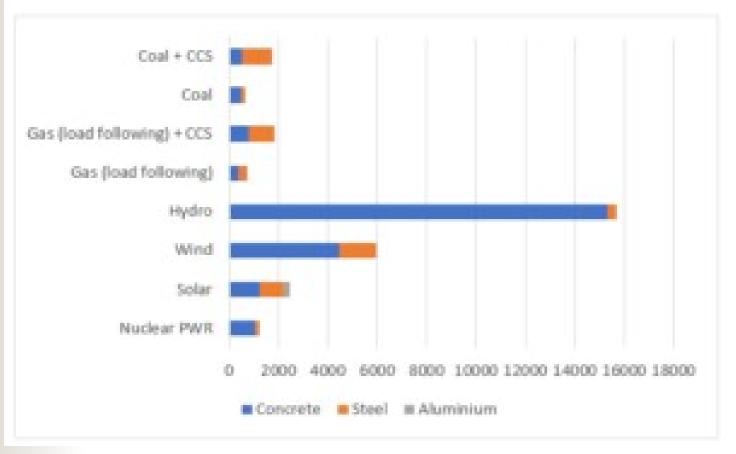
STUDYOFCTCLES

Convinted Osnam Navjert

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 CO_2 ?
 - 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.

Metals Demand 2022



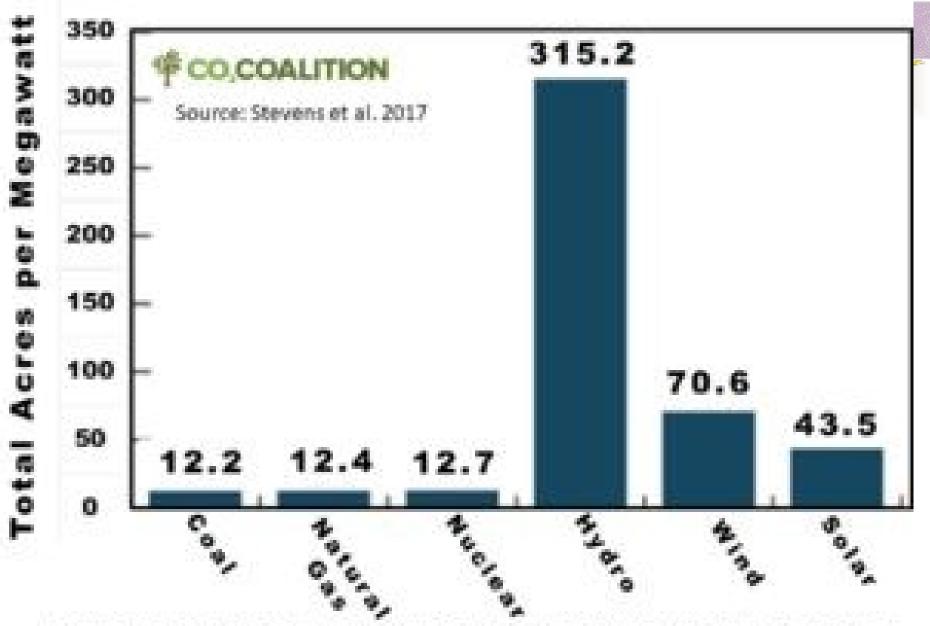
Metals Demand for Clean Energy

Kg/MW	8	8	1	ŝ	8	8	100	8	New Y	-	100	100	11100	8	N.	3
Offshore wind																/
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Solar PV																
Nuclear									1	·	0,0	OAL	лю	N		
Coal									F	Column	- 01	-	- 164			
Natural										e ins		atta a	100,00		-	

Metals demand for clean energy technologies compared to other power generation sources

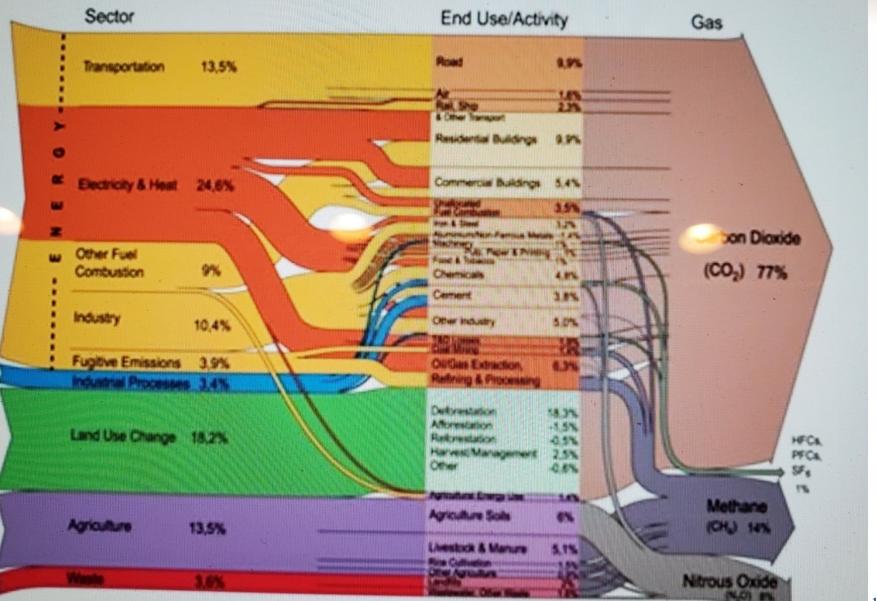
Source: MA 2022, The Role of Critical Minerals in Clean Energy Transitions





Physical footprint per megawatt of energy produced using various energy technologies

Mitigation = Reducing GHG:

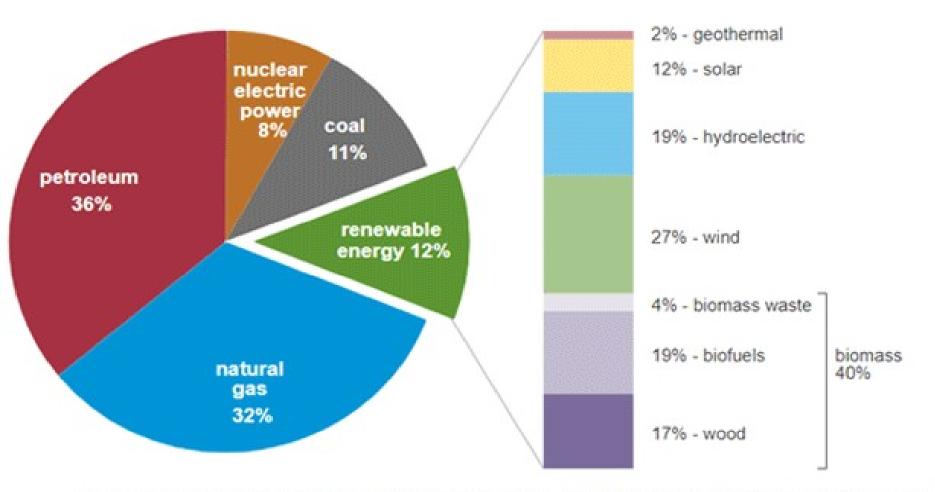


U.S. primary energy consumption by energy source, 2021

total = 97.33 quadrillion British thermal units (Btu)

eia

total = 12.16 quadrillion Btu

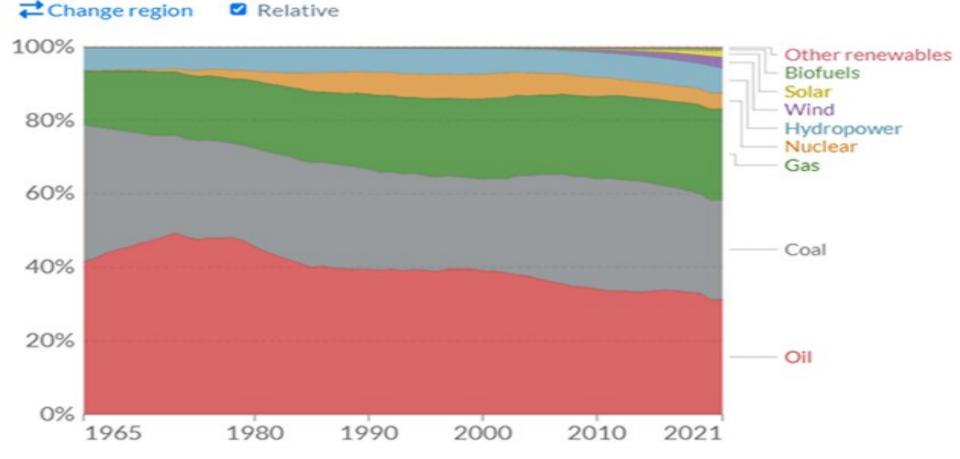


Data source: U.S. Energy Information Administration, *Monthly Energy Review*, Table 1.3 and 10.1, April 2022, preliminary data Note: Sum of components may not equal 100% because of independent rounding.

Energy consumption by source, World



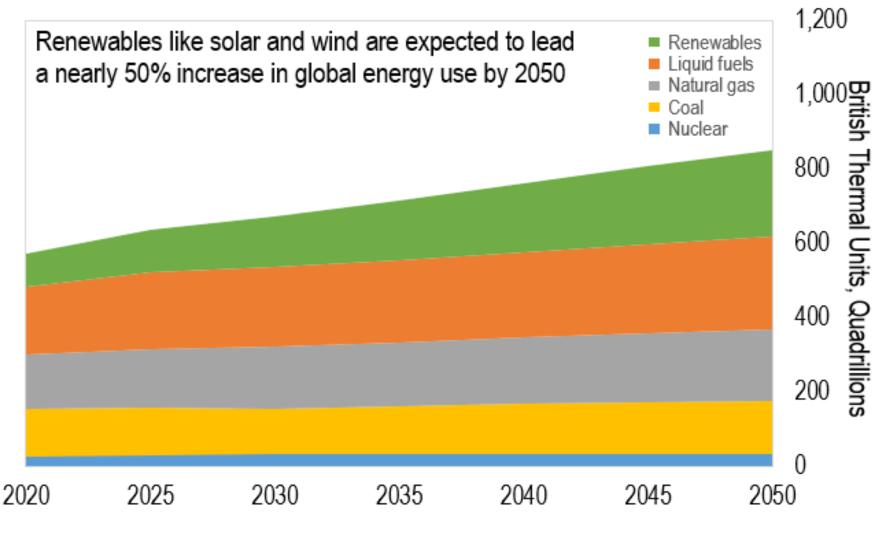
Primary energy consumption is measured in terawatt-hours (TWh). Here an inefficiency factor (the 'substitution' method) has been applied for fossil fuels, meaning the shares by each energy source give a better approximation of final energy consumption.



Source: BP Statistical Review of World Energy OurWorldInData.org/energy • CC BY Note: 'Other renewables' includes geothermal, biomass and waste energy.

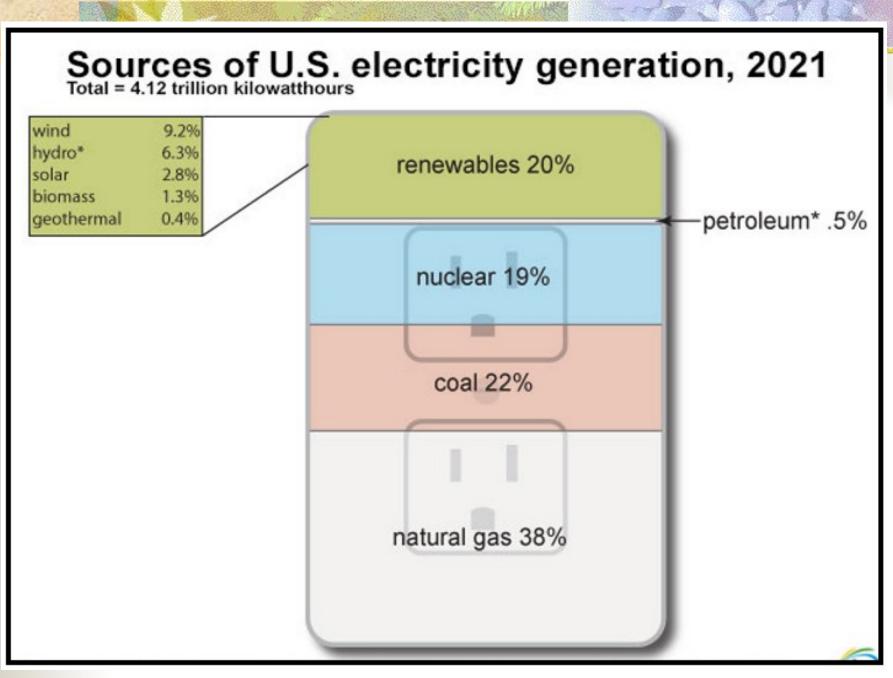


Global Primary Energy Consumption by Energy Source



CROGUE ECONOMICS

Source: EIA

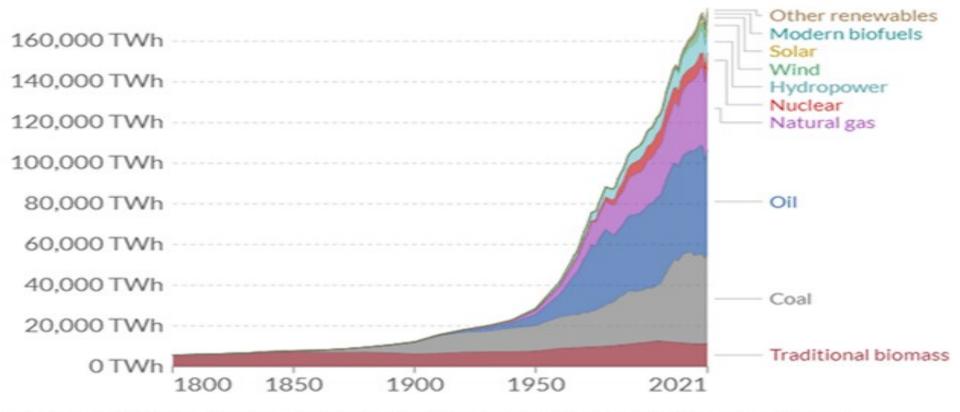


Global primary energy consumption by source

Our World in Data

Primary energy is calculated based on the 'substitution method' which takes account of the inefficiencies in fossil fuel production by converting non-fossil energy into the energy inputs required if they had the same conversion losses as fossil fuels.

O Relative

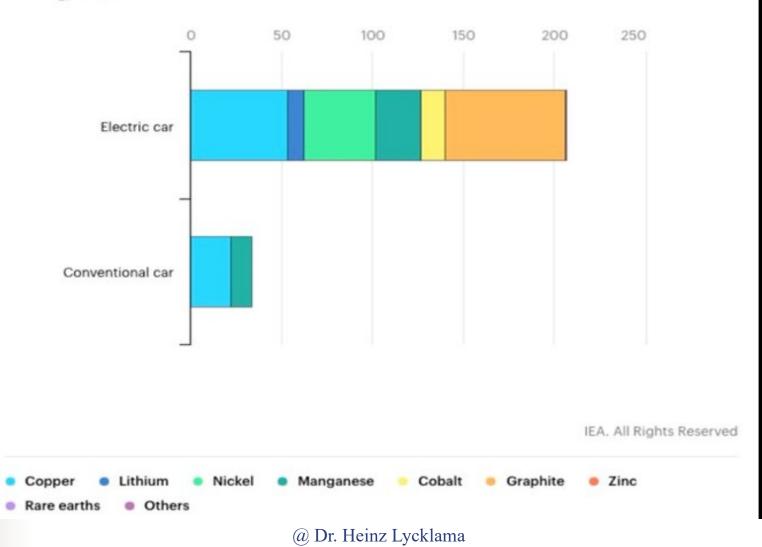


Source: Our World in Data based on Vaclav Smil (2017) and BP Statistical Review of World Energy OurWorldInData.org/energy • CC BY



Minerals Used in Electric Cars

kg/vehicle



Energy prices on the rise

