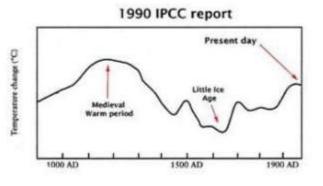
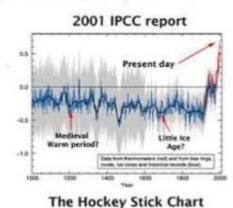
Do We Have A Climate Crisis?

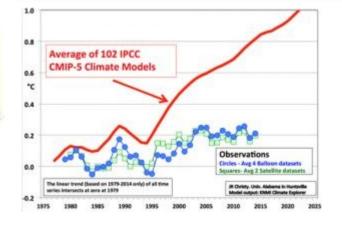
Dr. Heinz Lycklama
heinz@osta.com
HeinzLycklama.com/messages



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









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 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

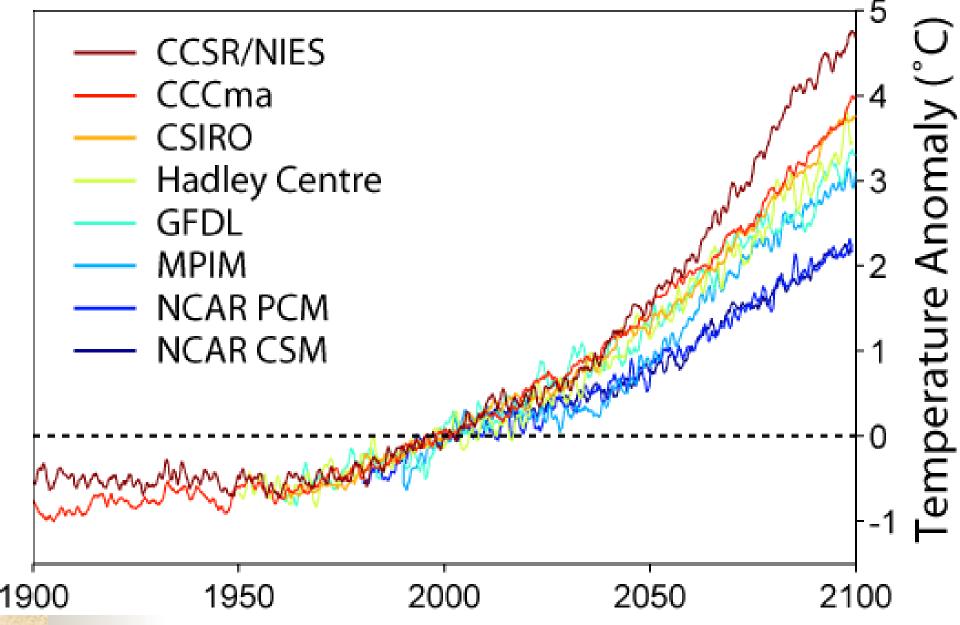
"Before this century is over, billions of us will die ..."

James Lovelock, scientist

- 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?



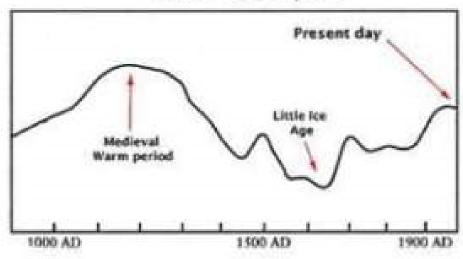
Global Warming Projections



The Changing UN IPCC Reports

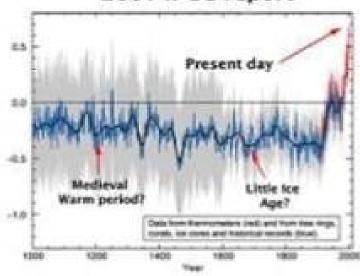
Climate change over the past 1000 years as shown by the IPCC



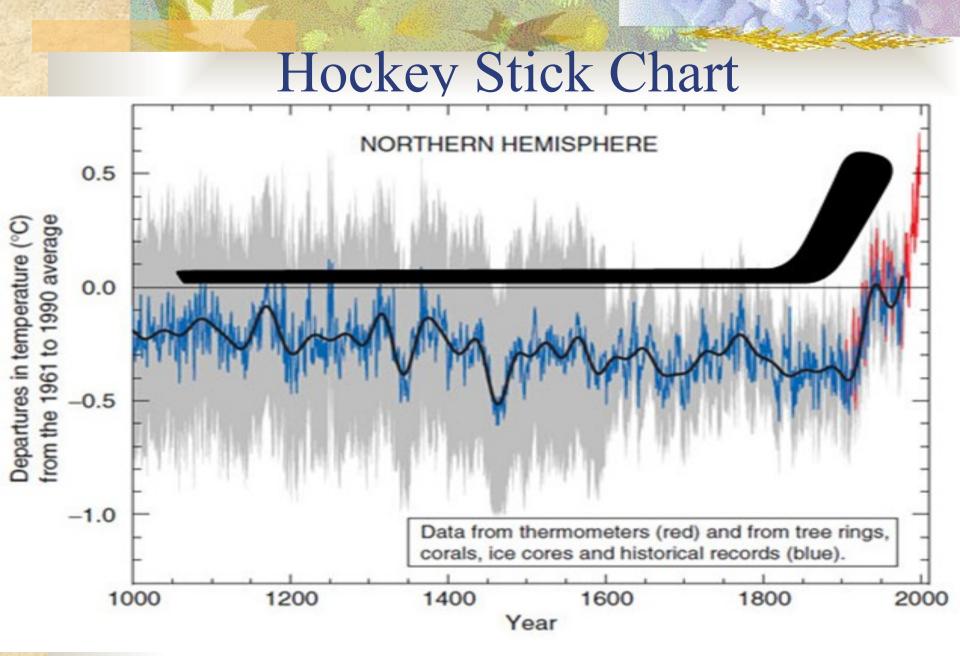


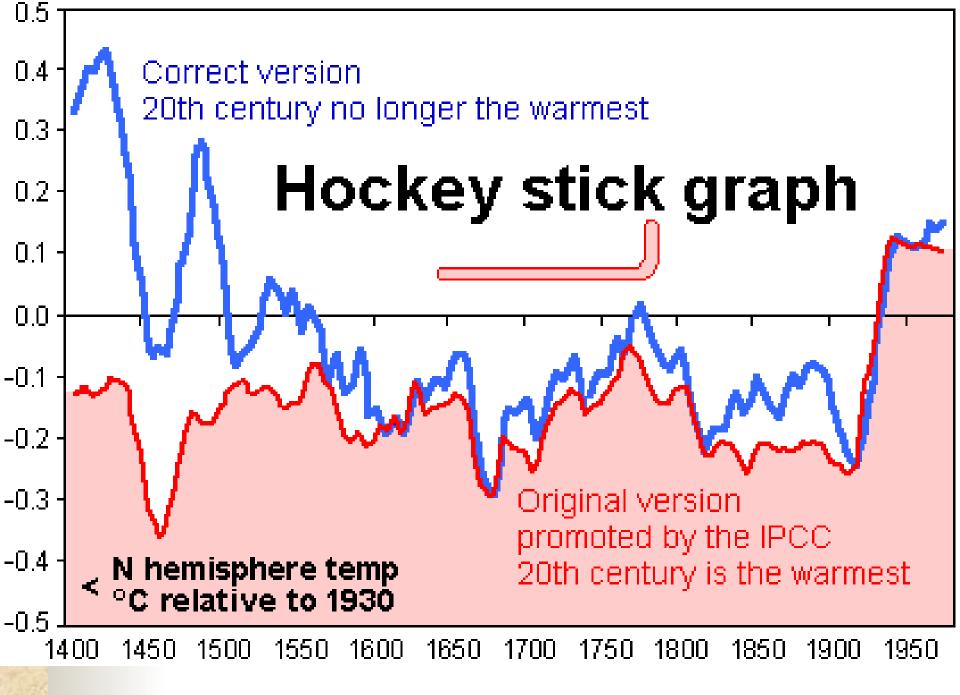
Temperature change (*C)

2001 IPCC report

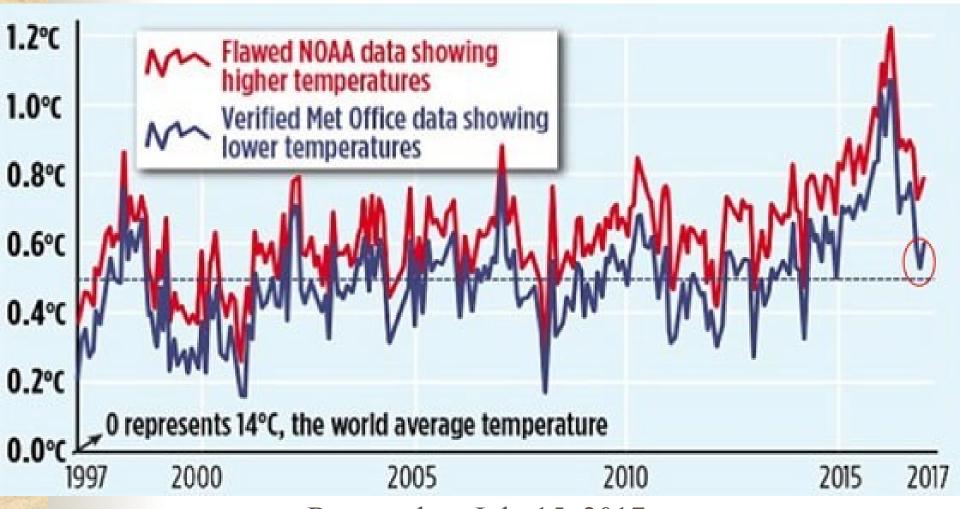


The Hockey Stick Chart





MIT Researchers Slam GW Data

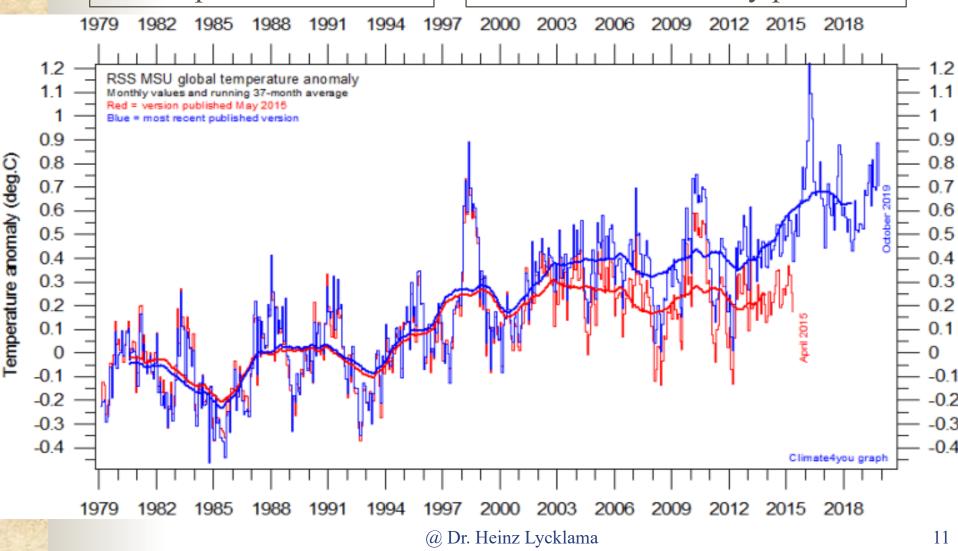


Reported on July 15, 2017

UK MET Climate Fraud in 2002

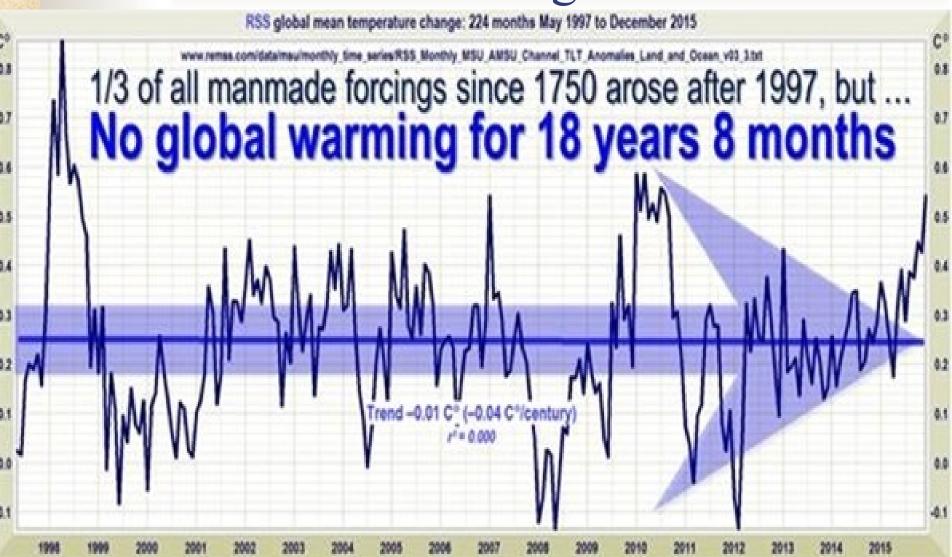
RED – published in 2015

BLUE – most recently published



NASA US Temperature, 1999-2019

No Global Warming For 19 Years



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









1973

1977

2001

2006

Global Cooling

December 1973 January 1977 April 1977 December 1979





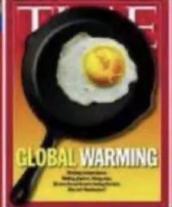




Global Warming

October 1987 April 2001 April 2006 July 2007









Global Cooling? Global Warming?

Gov. Jerry Brown's 1977 Global Cooling BS, Recycled As Gov. Jerry Brown's 2014 Global Warming BS Posted on July 30, 2014



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

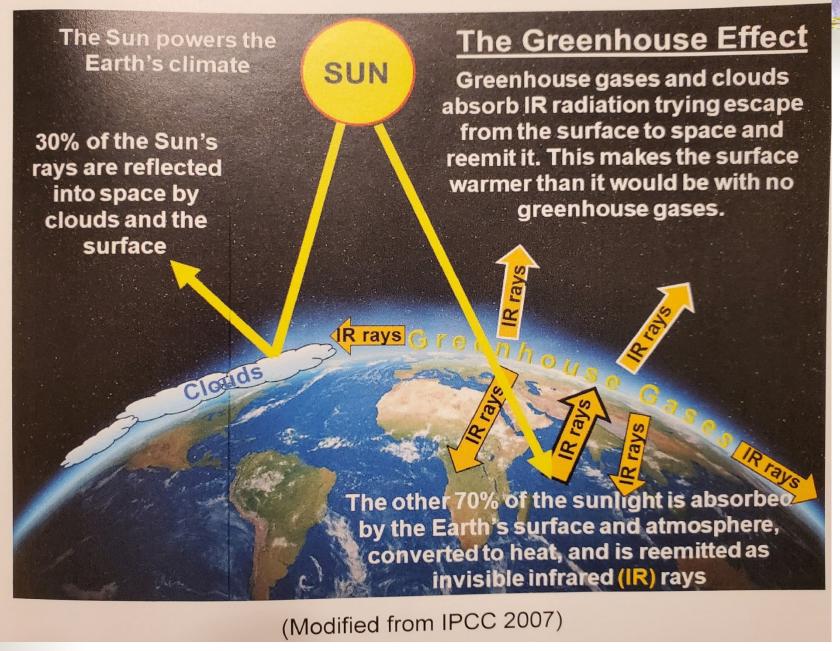
In 1977, Governor Brown warned that California was facing an unprecedented drought, blamed at the time on Global Cooling





Global Energy Flows W m⁻² 102 Outgoing Incoming Reflected Solar 239 341 Solar Longwave Radiation 101.9 W m⁻² Radiation Radiation 341.3 W m² 238.5 W m⁻² Reflected by Clouds and 40 Atmospheric Window Atmosphere Emitted by 79 169 Atmosphere Greenhouse Absorbed by Gases 78 Atmosphere Latent 17 80 Heat 333 Reflected by 356 Back Surface Radiation 23 396 333 Surface Absorbed by Thermals Evapo-Radiation Absorbed by Surface transpiration Surface **Net absorbed** 0.9 W m-2

Figure 1: The greenhouse effect

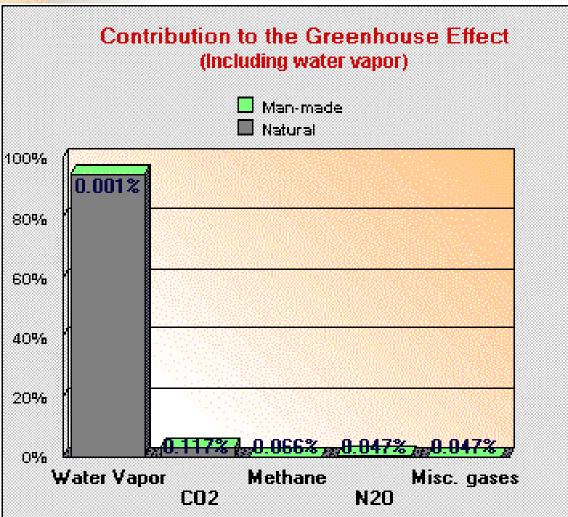


Anthropogenic Contribution

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

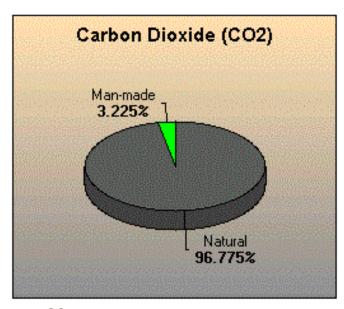
Based on concentrations (ppb) adjusted for heat retention characteristics	% of All Greenhouse Gases	% Natural	% Man- made
Water vapor	95.000%	94.999%	0.001%
Carbon Dioxide (CO2)	3.618%	3.502%	0.117%
Methane (CH4)	0.360%	0.294%	0.066%
Nitrous Oxide (N2O)	0.950%	0.903%	0.047%
Misc. gases (CFC's, etc.)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

Greenhouse Gases (with Water Vapor)



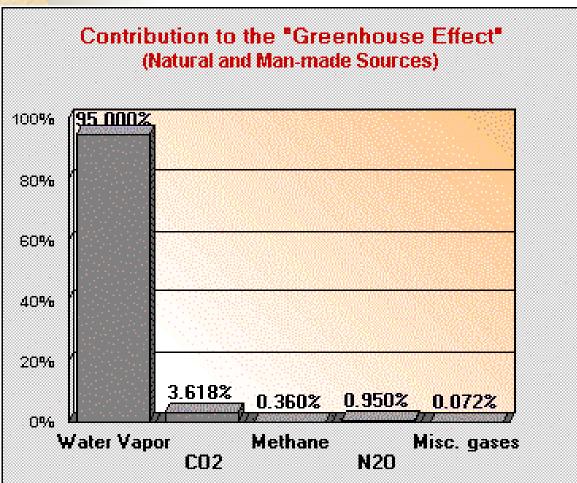
Greenhouse Gases

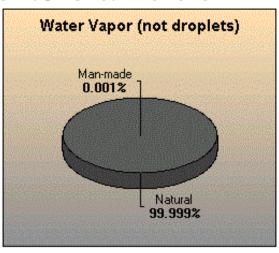
Water vapor & clouds ~95% Carbon dioxide [CO2] ~3.6% Methane [CH4] ~0.36% Nitrous Oxide [N2O] ~.95% Miscellaneous Gases ~.07

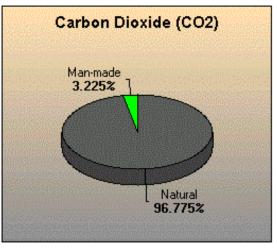


Human contribution to greenhouse effect = 0.28%

Natural & Manmade Sources

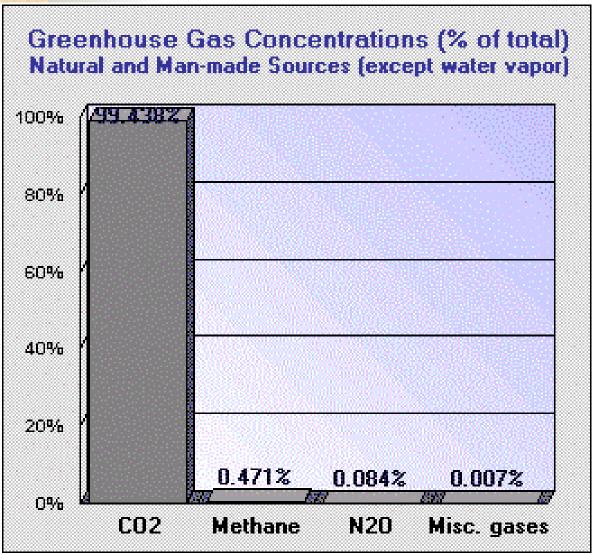


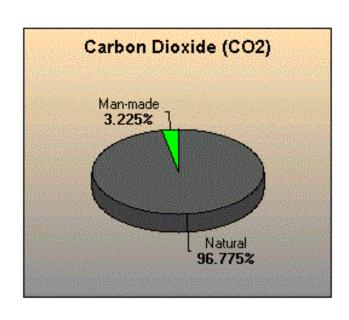




Man-made CO2 contributions cause only about 0.117% of Earth's greenhouse effect, (factoring in water vapor). This is insignificant!

Greenhouse Gases (no Water Vapor)

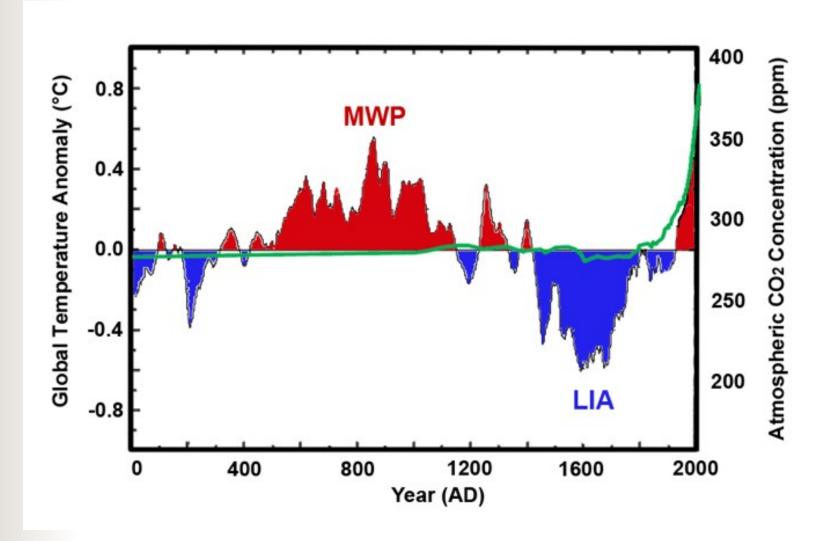




Issue #1

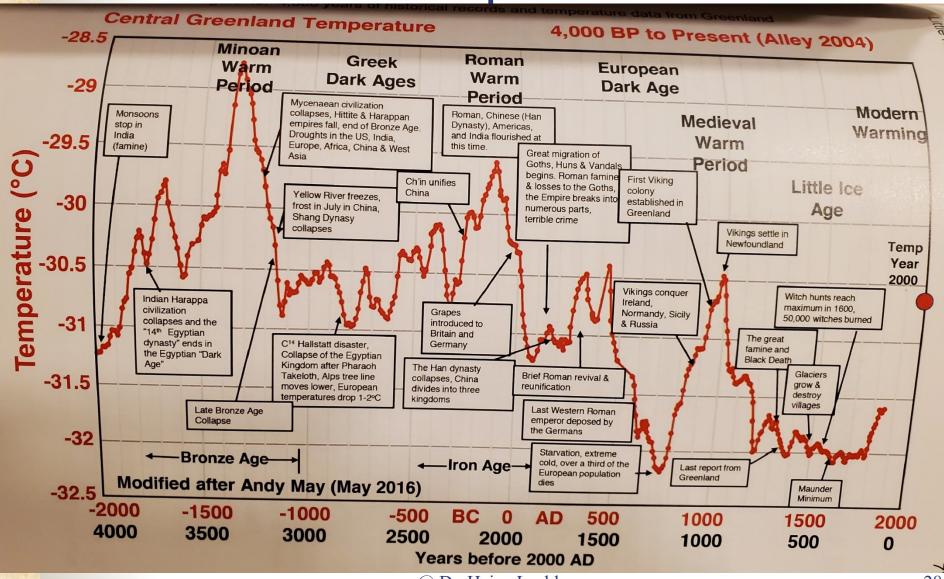
Climate Always Changing

Mean Relative Temperature History



GLOBAL TEMPERATURES (2500 B.C. TO 2040 A.D.) **MOUNT PINATUBO ERUPTION (Philippines) MAJOR GLOBAL COOLING FROM 2007 TO 2009** 1.1 Degree F. Rapid Cool Down (June 1991 to March 1992) A 0.9 Degree Fahrenheit drop in global temperatures Global Temperature Went From 0.6 Degrees Above Normal occurred from October 2007 to February 2009. To 0.5 Degrees Below Normal. Hot/Dry 1100 B.C. 1982 1991 Cycle El Chichon Mex. Mt. Pinatubo 2038 Hebrew Exodus Viking **Philippines** 60°F? From Egypt Explorations 1250 A.D. (Reached 2015 NE Canada) 1883 **VERY** 58.72°F Only Scattered Roman Krakatoa' WARM 79 A.D. Volcanic Few Eruptions **Empire** Indonesia Vesuvius Erupts 2016 **Eruptions** Pompeii Destroyed Sudden 1851 2010's Mt. Pelee in Italy Cool Down 2200 B.C. WARM Worldwide Martinique Sudden 4 B.C. Weather Sudden Medieval 1845 Cool Down ✓ Birth of Nevado Extremes Cool Down Warm WARM WARM del Ruiz Christ Period Columbia 57.1°F Normal 2400 009 2000 1000 200 La Nina & Grecian **TDARK** Low Sunspots "LITTLE 35 Volcanic **AGES Empire** 2020-21 25 Eruptions **ICE AGE"** Eruptions 1335-1360 Colder? At Least Nomanic COLD COLD Pacific. 24 Eruptions 1815 10 Eruptions Time **VERY COLD** 535-550 Vesuvius X Columbia, Mt. Tambora (Italy, Pacific, in Italy, (Era of Krakatoa. Italy & Etna Alaska and Indonesia Pacific Great 250 B.C. Indonesia Iceland Italy **←** 1792 Iceland) and Alaska Migration) and at least At Least Mt. Unzen 55 10 other Whenever SOLAR RADIATION 90 Major-Japan **Eruptions** eruptions has DECREASED and Eruptions 1783 2500 B.C. To 1 B.C. 1 A.D. To 2040 **VOLCANIC ACTIVITY** (4 in 1586 Lakagigar 1660 has INCREASED, Iceland Kelut AT LEAST 78 MAJOR TEMPERATURE alone) global temperatures Indonesia 1772 **SWINGS IN THE LAST 4,500 YEARS** SUDDENLY PLUMMET. Papadanyan 1607 **INCLUDING 2 SINCE THE 1970S!** often within weeks or months. Indonesia Jamestown 1741 (SE Virginia) 54.3°F? Vesuvius Chart prepared by: Climatologist Cliff Harris & Meteorologist Randy Mann Copyright © Harris-Mann Climatology www.LongRangeWeather.com

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 breath:

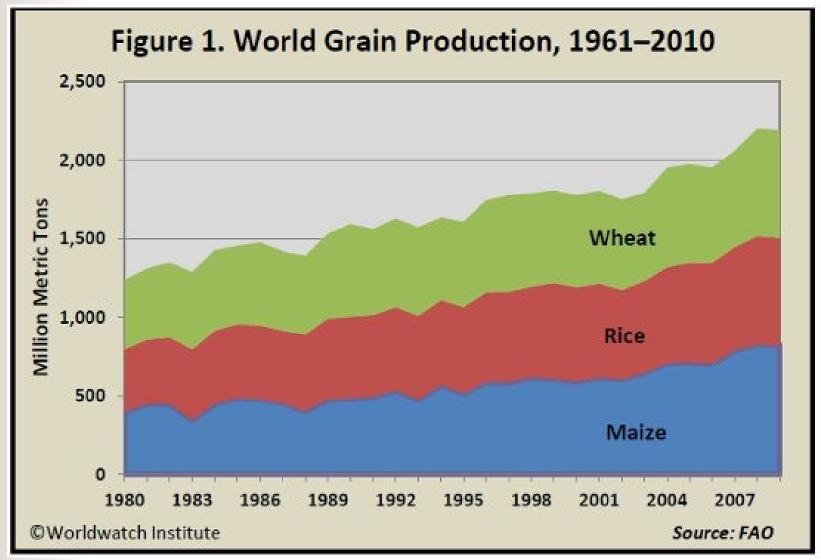
70% N₂ 5% O₂ 5% H₂O 20% CO₂

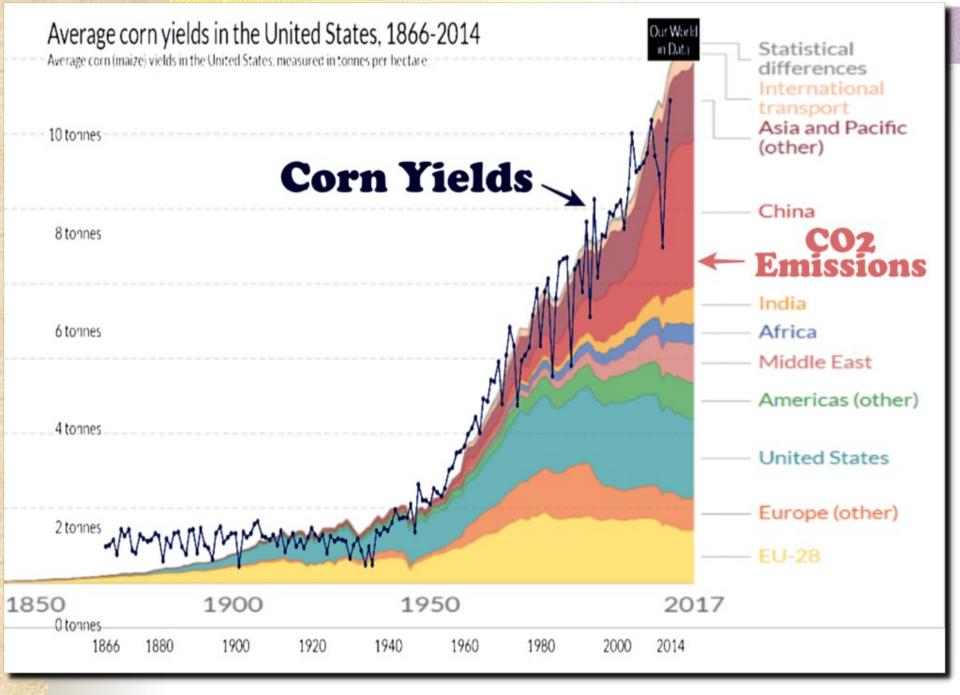
Alice's breath:

75% N₂ 15% O₂ 6% H₂0 4% CO₂

Each human exhales about 2 pounds of CO₂ per day.

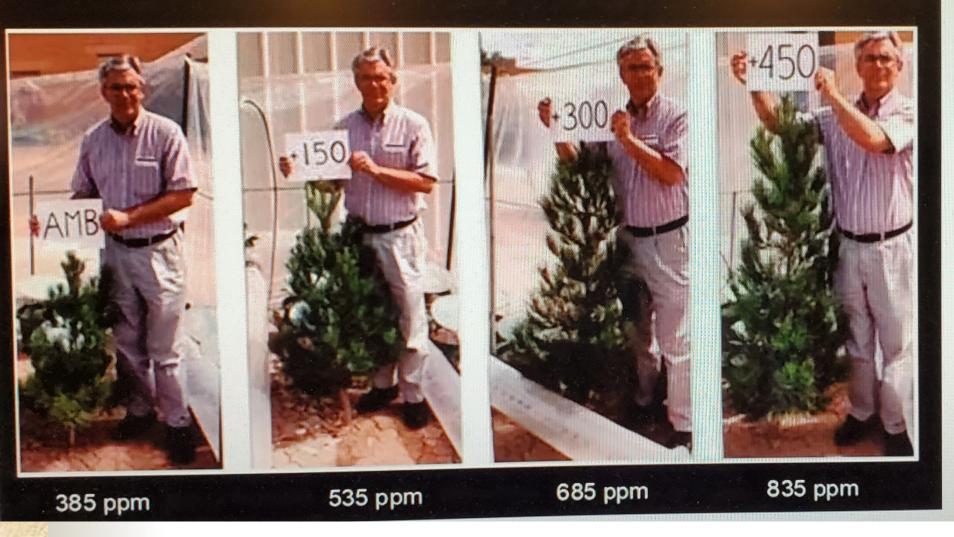
Growth and Increased CO2





Is CO2 Plant Food?

Here is what happens with more 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

























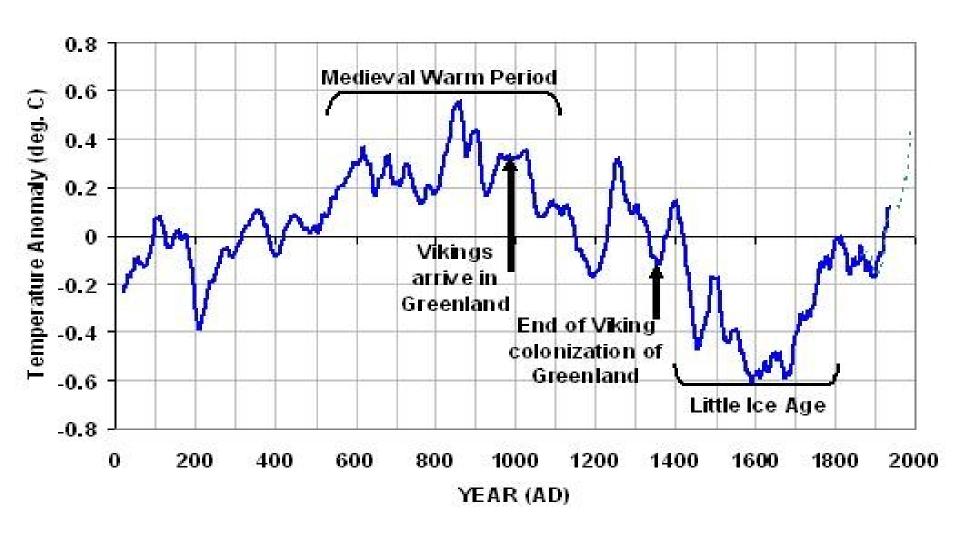




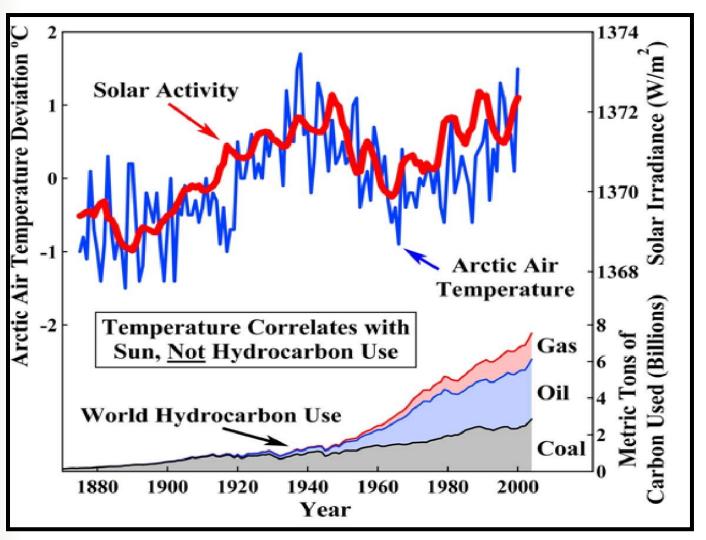


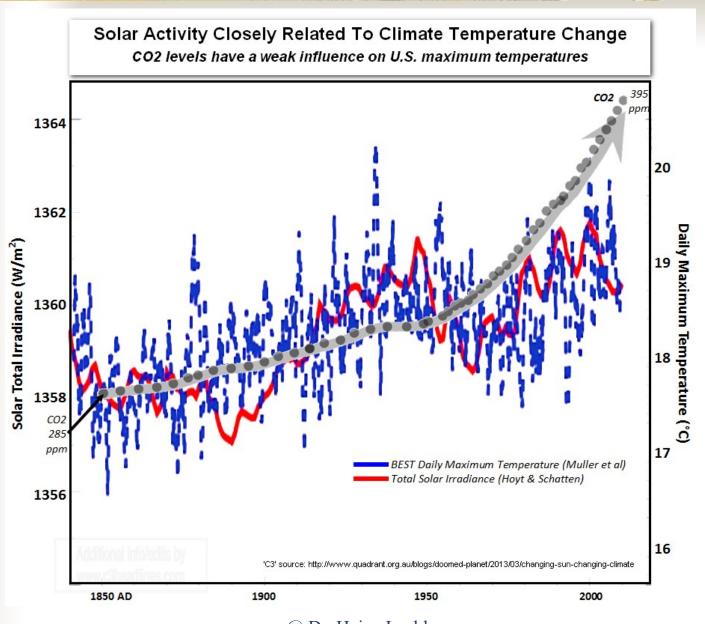


2000 Years of Global Temperatures

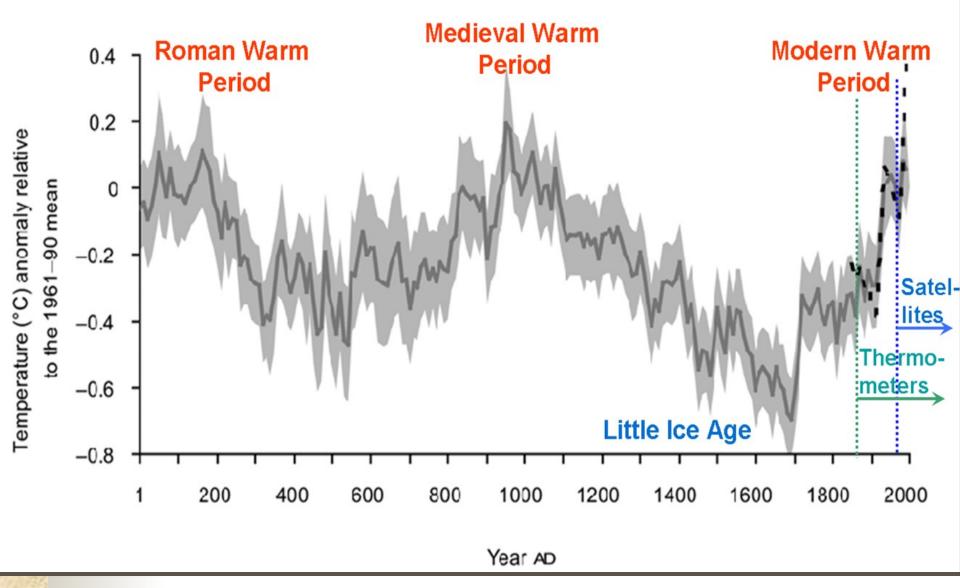


30-Year Cooling in Mid-Century

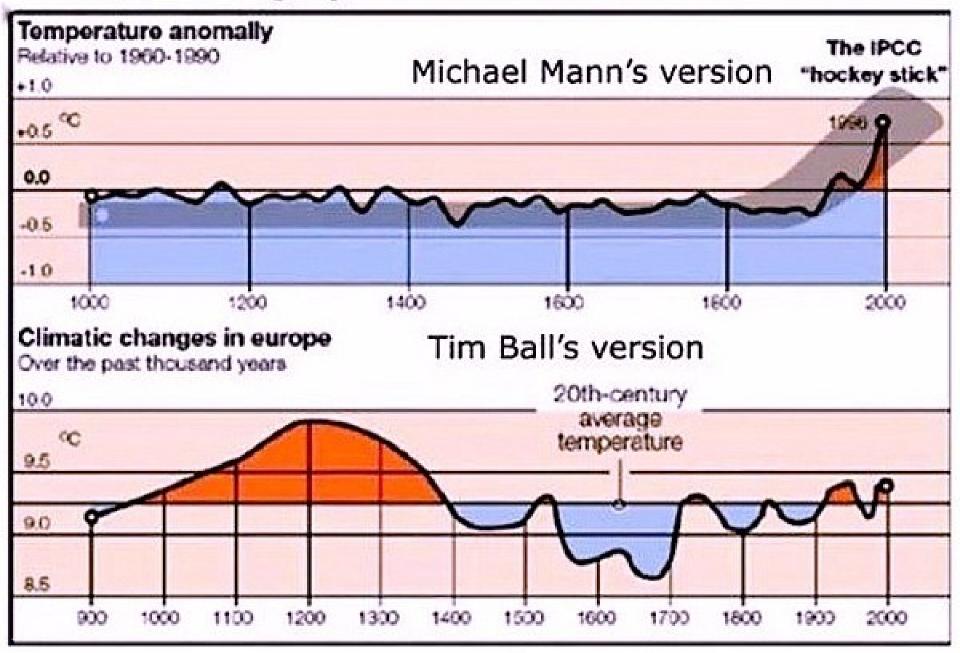




Temperature Reconstruction* for N. Hemisphere, 1 - 2000 AD Shows Modern Warm Period Not Exceptional

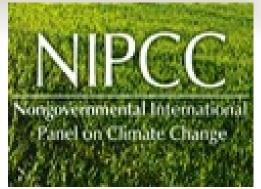


Battle of the graphs: Mann versus Ball

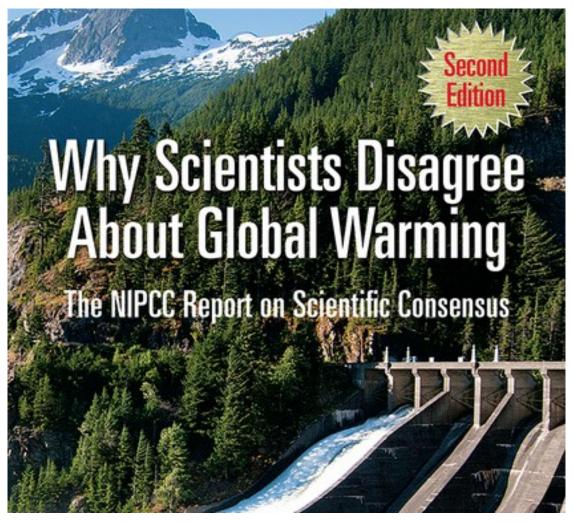


NIPCC

- 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



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

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

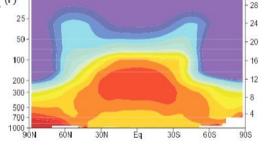
A. Evidence for GW by CO2?

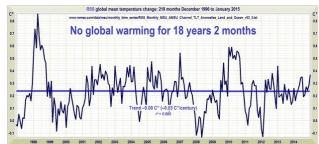
- The greenhouse gas signature missing ®
 - No **telltale "hotspot**" warming pattern
- Vostoc ice cores do not show CO2
 pushing up temperatures
 - Increased temperatures 800 years
 before CO2



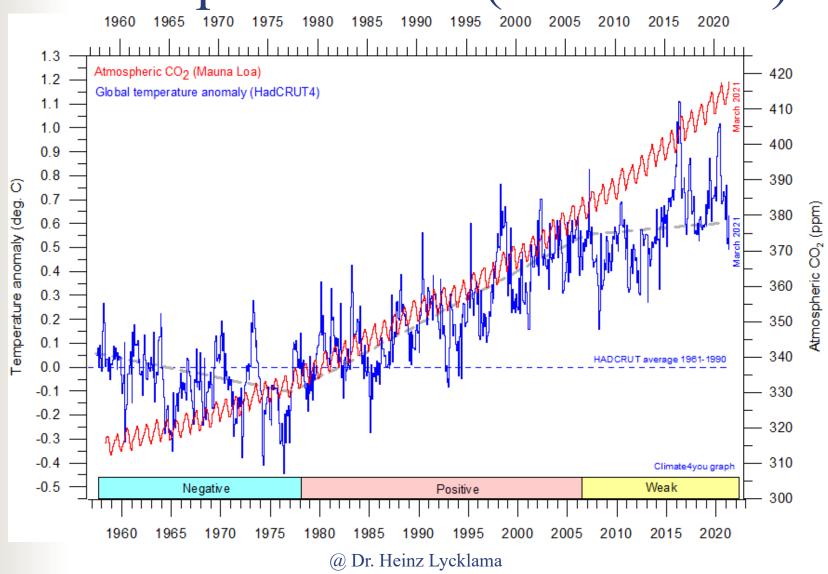
- Since 1999 temperatures have been flat
- CO2 already doing almost all the warming it can do
 - Twice the CO2 does not make twice the difference

The Skeptic's Handbook, Joanne Nova 2009

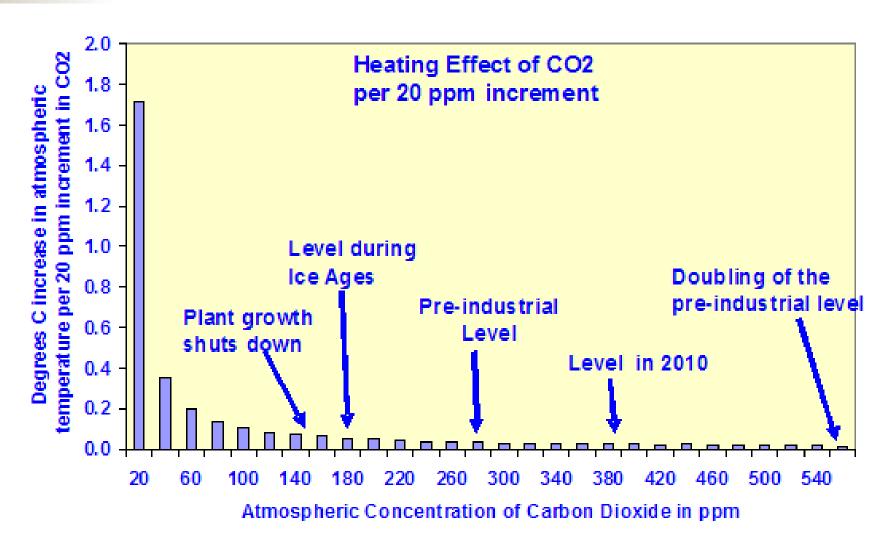




Atmospheric CO2 (Mauna Loa)

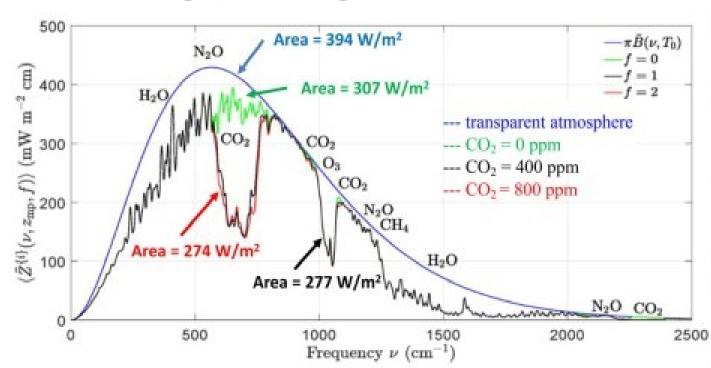


CO2 in Atmosphere Insignificant



Greenhouse Gases Essential

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



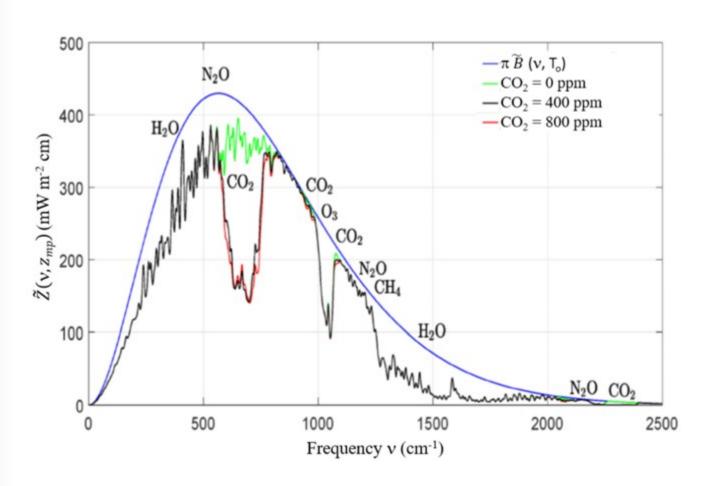


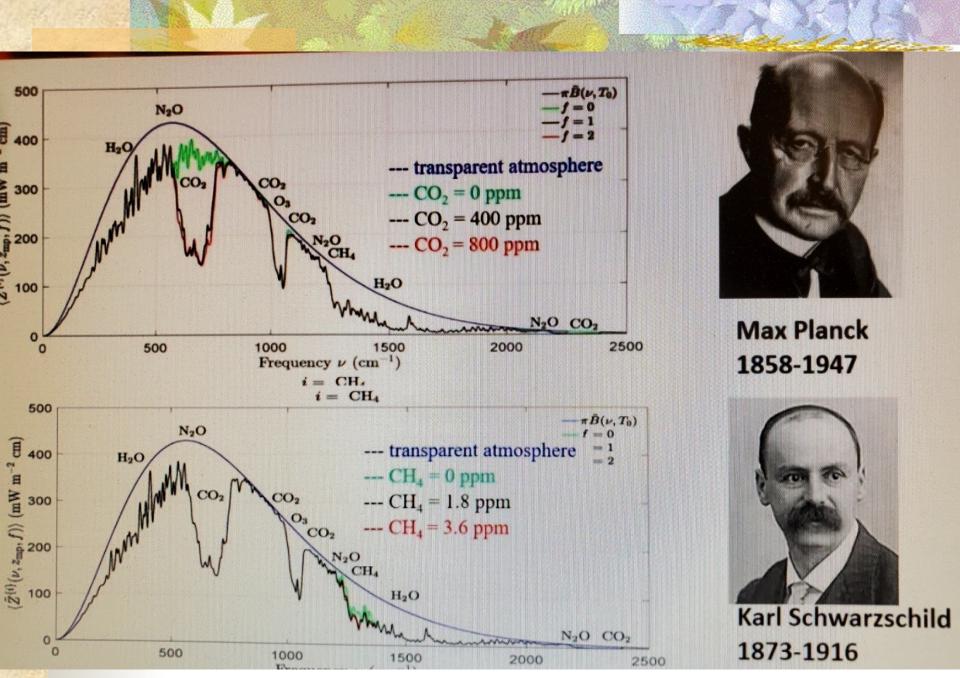
Max Planck 1858–1947



Karl Schwarzschild 1873–1916

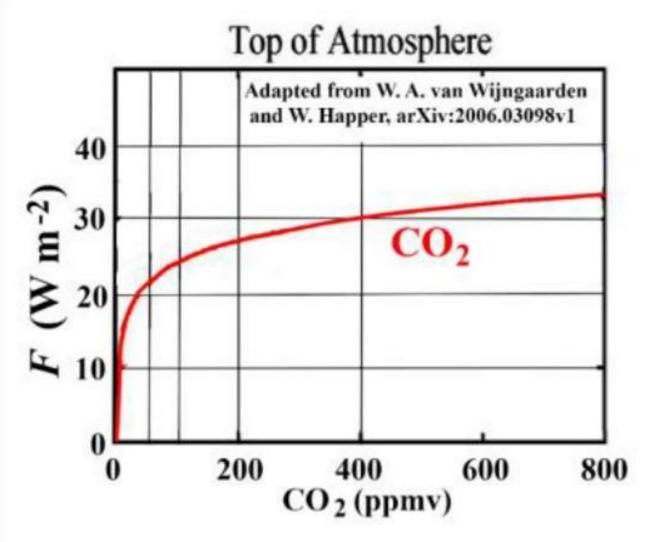
Impact of Adding CO2



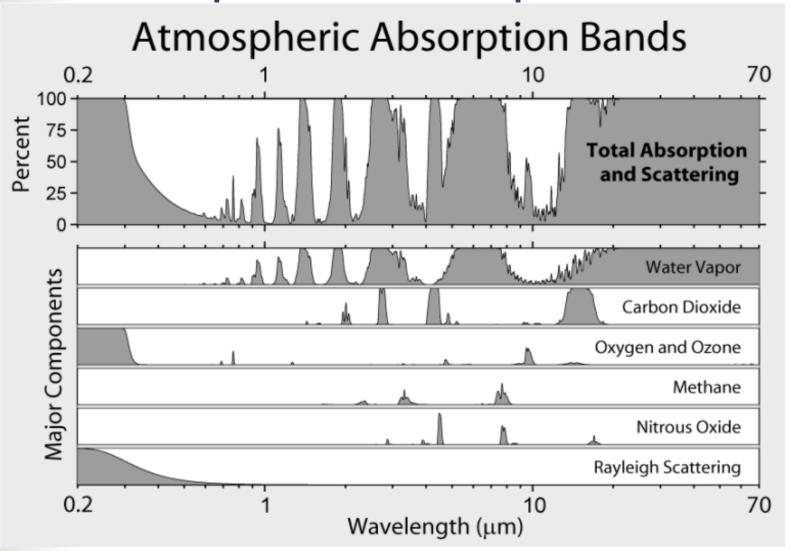


@ Dr. Heinz Lycklama

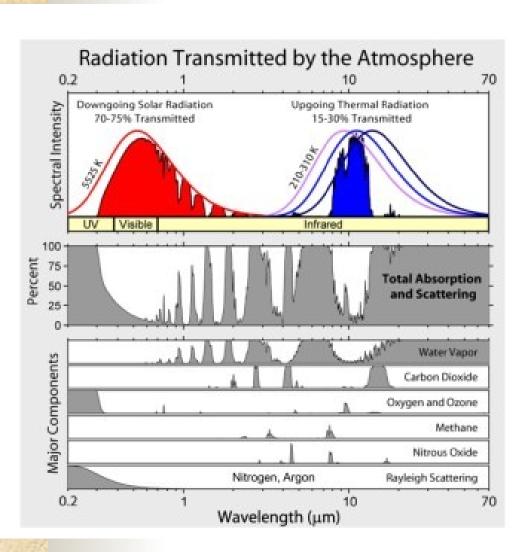
Impact of Adding CO2 (adapted)



Atmospheric Absorption Bands



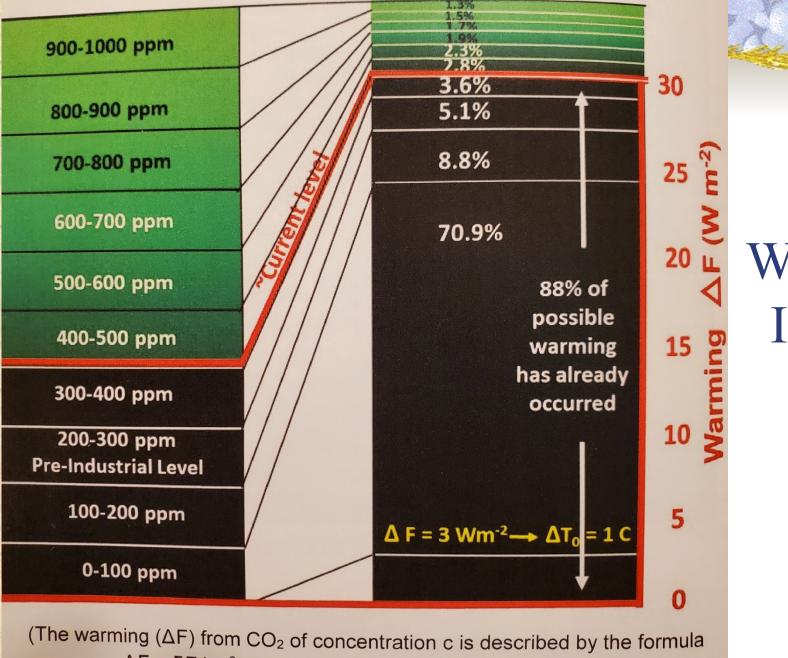
Radiation Transmitted by the Atmosphere



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).

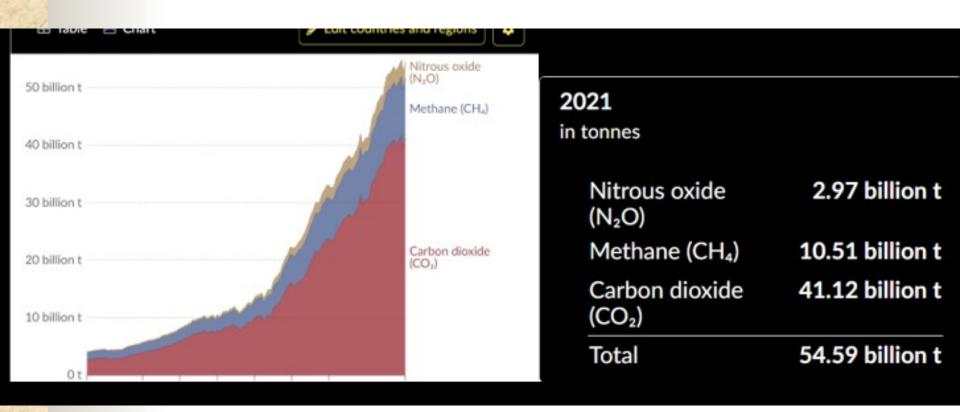
Most sunlight (red) is transmitted, only about a quarter of the thermal cooling radiation (blue) is transmitted because of absorption by greenhouse gases, shown in the lower panels.



The Warming Impact

 $\Delta F = \delta F \log^2 (1 + c/c_0)$ for the top of the atmosphere.)

Tons of GHG Added to Atmosphere

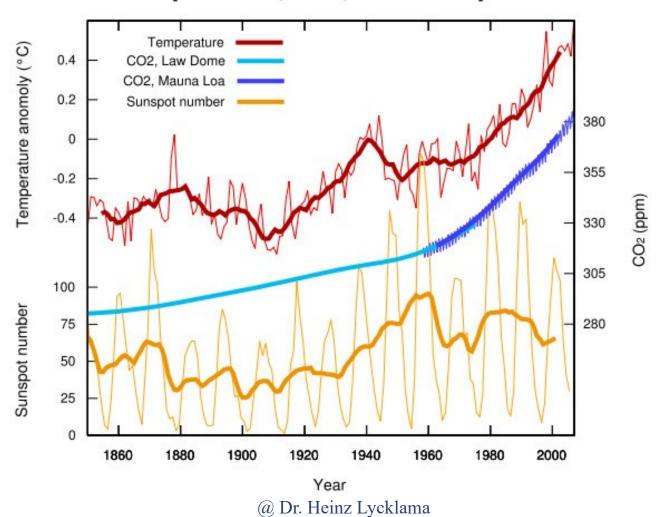


Issue #5

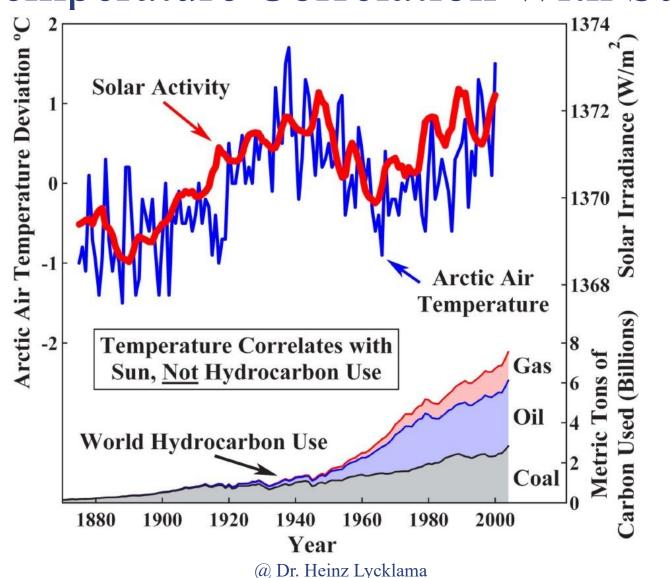
Total Solar Irradiation (TSI) Can Cause Significant Fluctuations in the Climate

B. GW by Sunspots Only?

Temperature, CO₂, and Sunspots

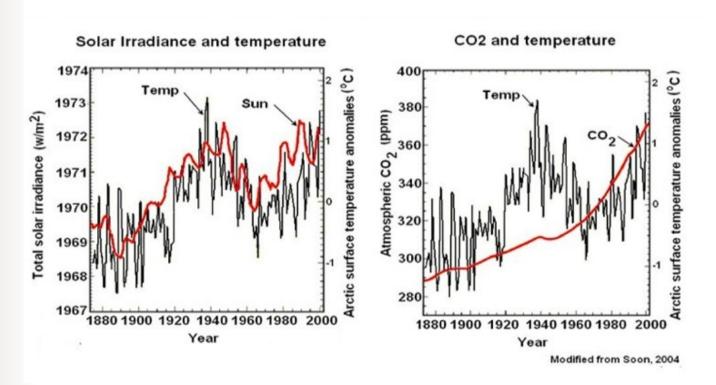


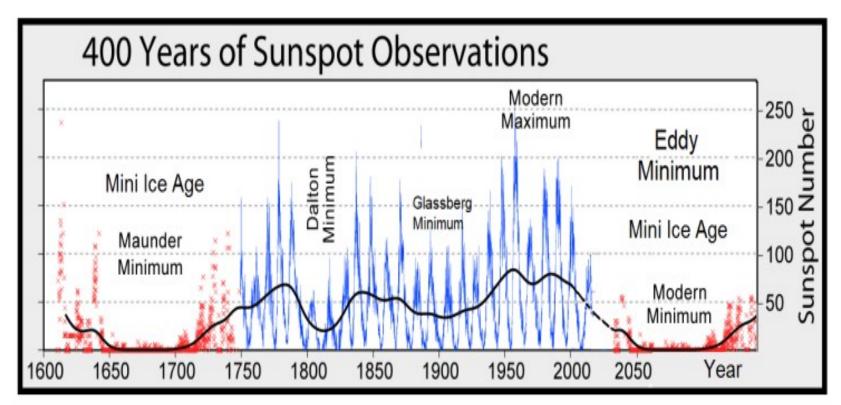
Temperature Correlation With Sun

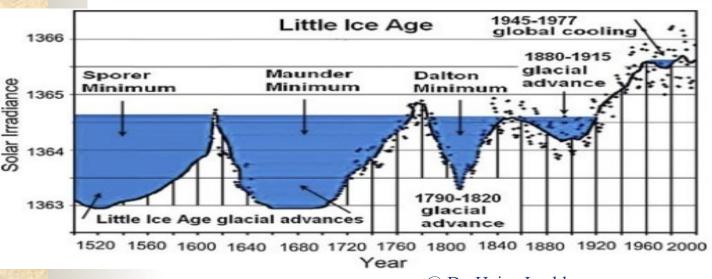


C. Total Solar Irradiance?

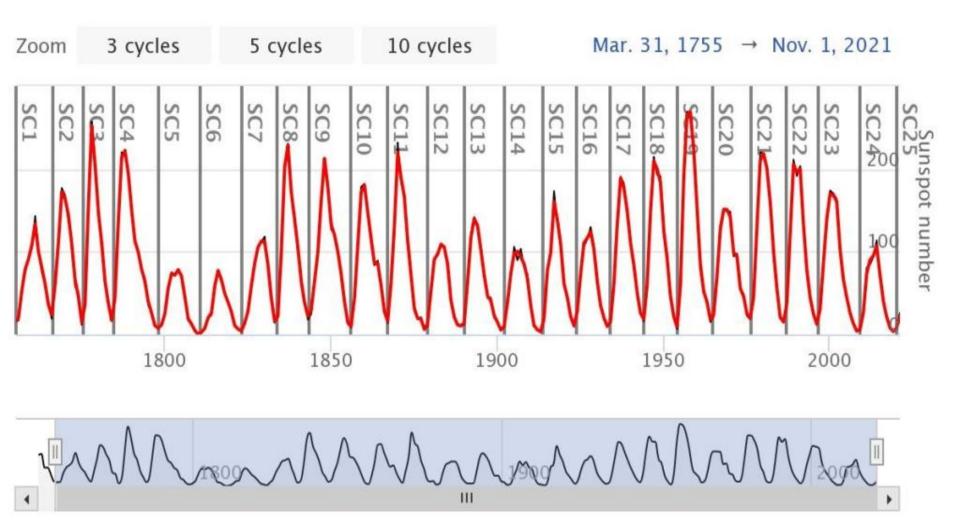
The following charts show clearly that climate change seems to be directly correlated to Solar Irradiance, rather than CO₂, as the "Global Warming Crisis" alarmist crowd would have you think.







International Sunspot Number



- Monthly mean total sunspot number
- 13-month smoothed monthly total sunspot number

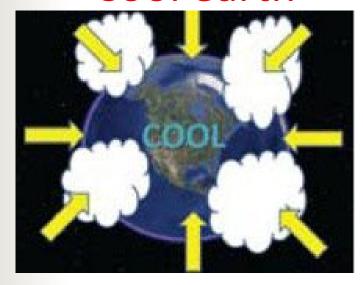
WDC-SILSO, Royal Observatory of Belgium, Brussels

Svensmark Global Cosmic Ray Theory Inactive Sun Active Sun

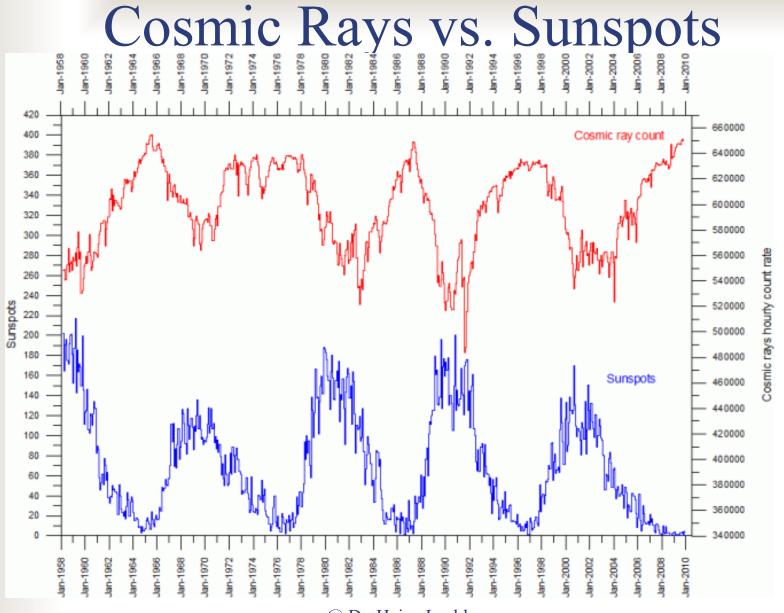
High cosmic rays
More clouds
Cool earth

Fewer clouds
Hot earth

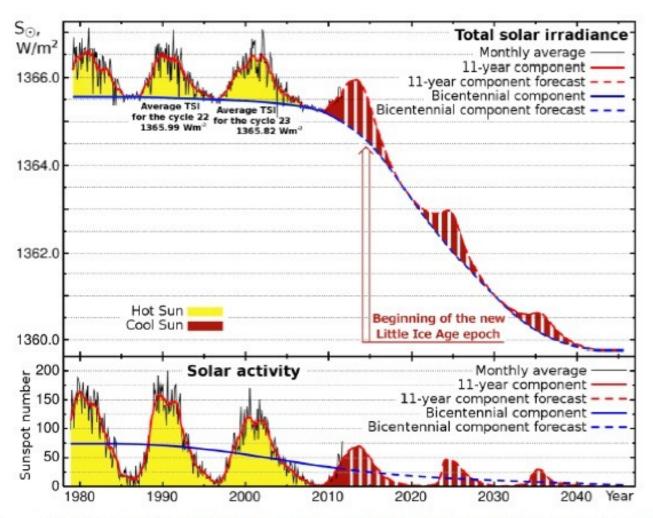
Low cosmic rays



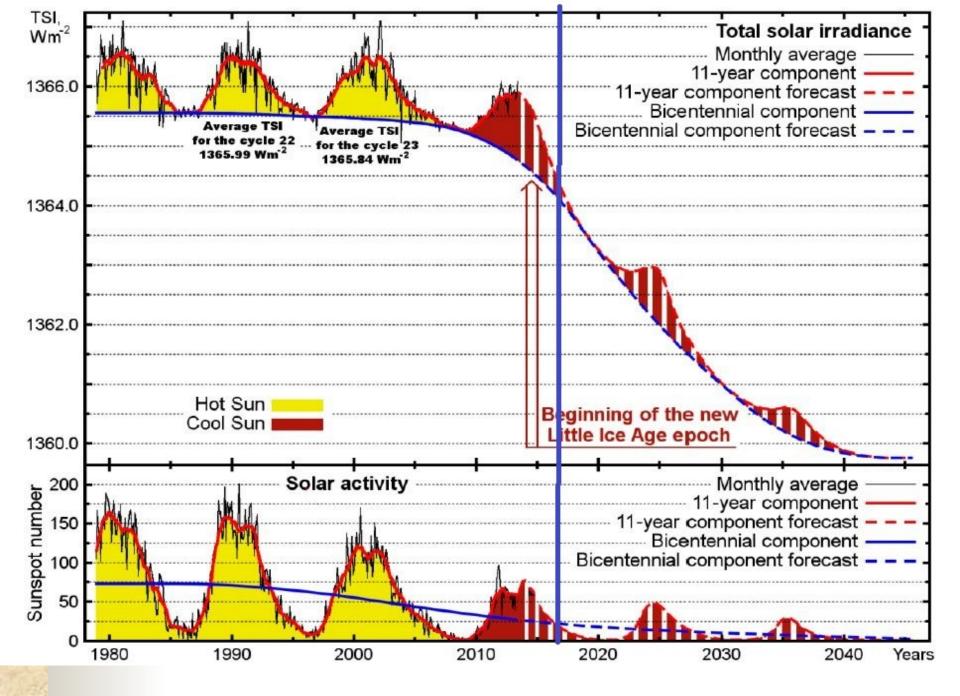
Cloud Experiment Supports GW Theory, Dr. Larry Vardiman



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)

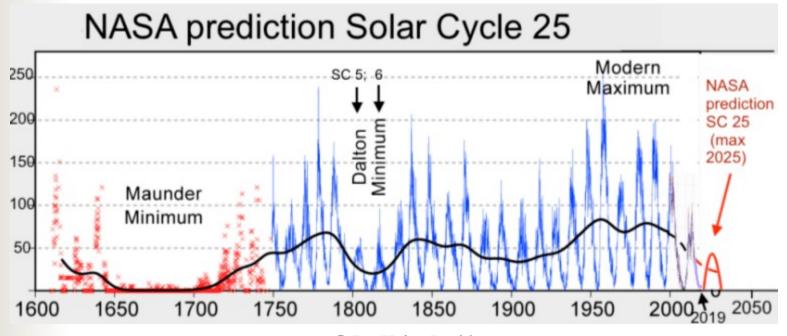


Anthropic GW Hoax Unravelling

- 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

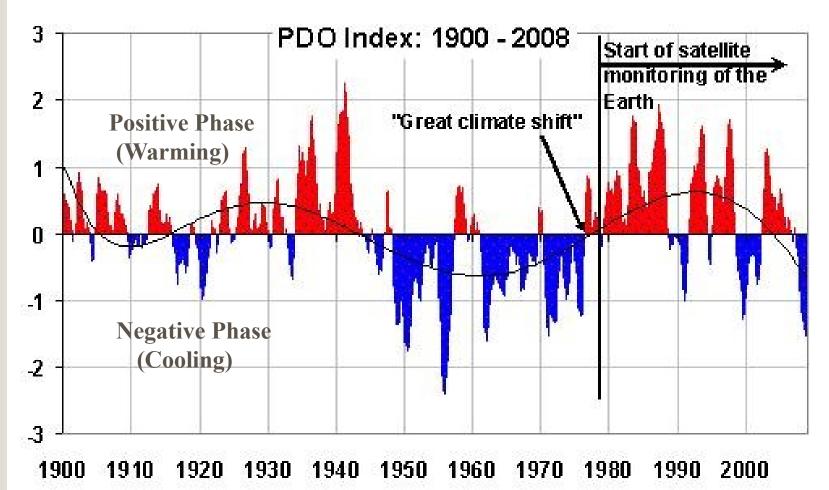
Solar cycle (25) will be "the weakest of the past 200 years," with the agency correlating previous solar shutdowns to prolonged periods of global cooling here



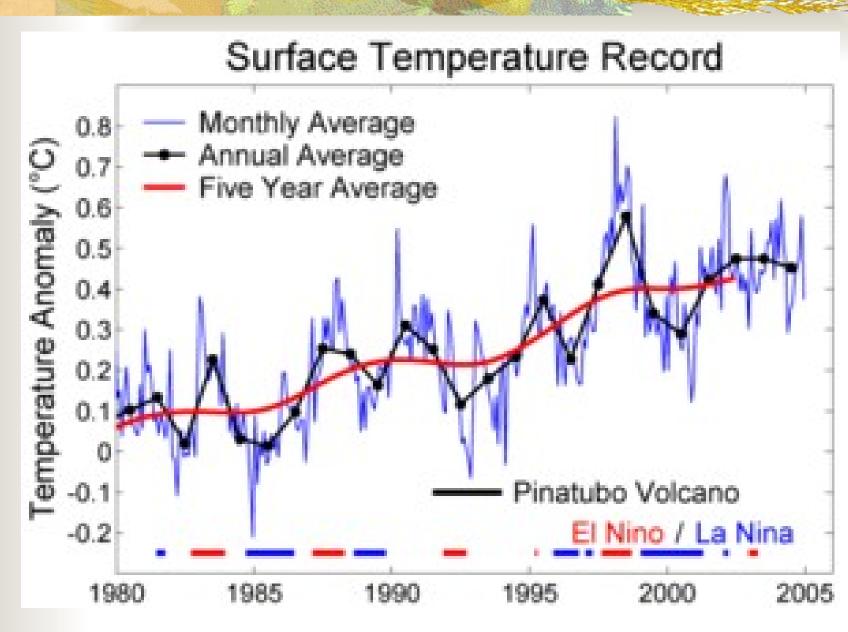
Issue #6

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

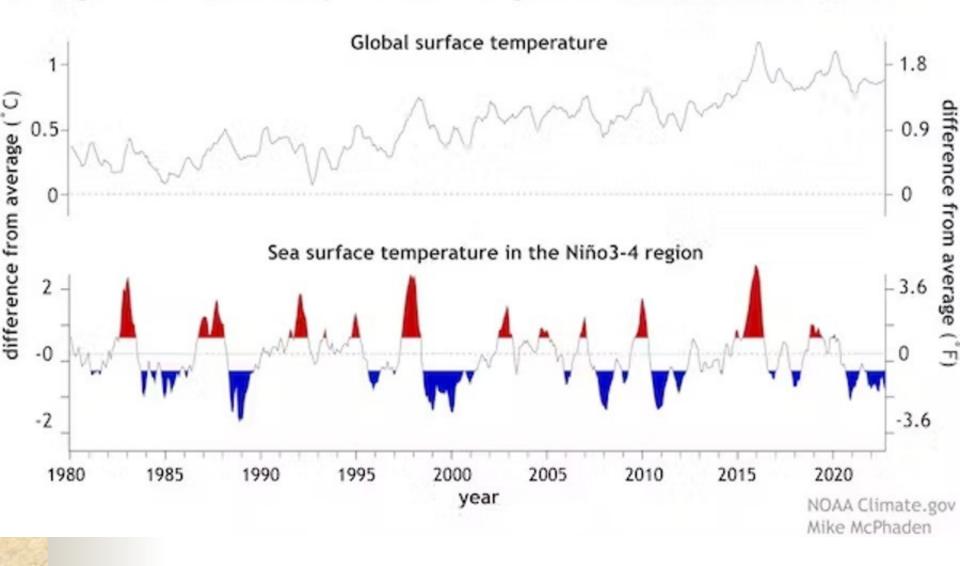
D. Pacific Decadal Oscillation (PDO)



Preferred by Dr. Roy Spencer (Climate Scientist)

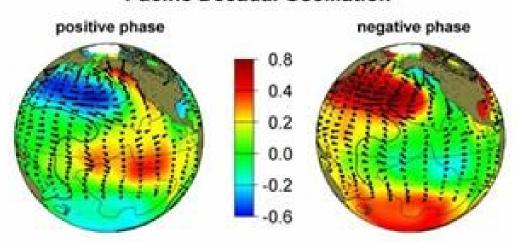


How global surface temperature changes with El Niño and La Niña



PDO – Key to the GW Debate?

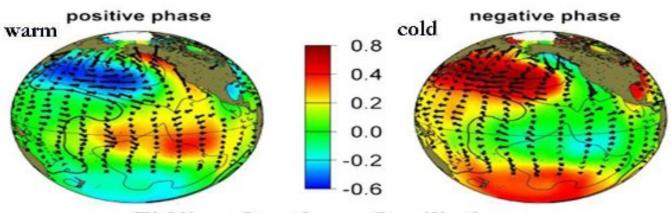
Pacific Decadal Oscillation



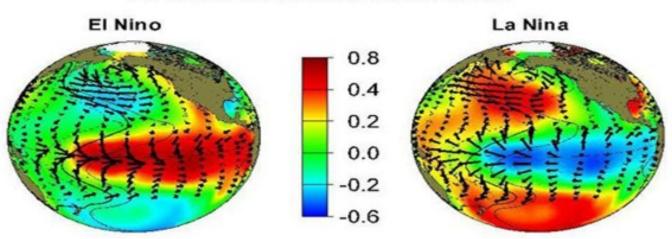
- Switch between two circulation patterns every 30 years in North Pacific Ocean
- ENSO El Nino Southern Oscillation every few years of tropical Pacific Ocean

Pacific Ocean Oscillations

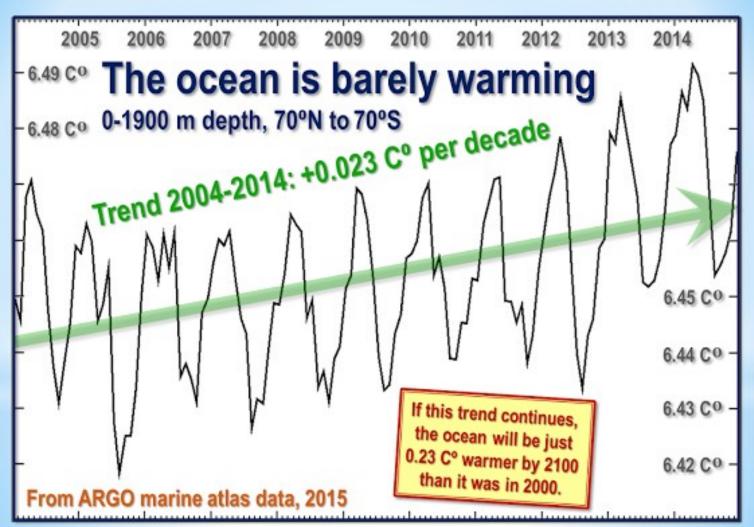
Pacific Decadal Oscillation



El Nino Southern Oscillation



Ocean Warming Minimal



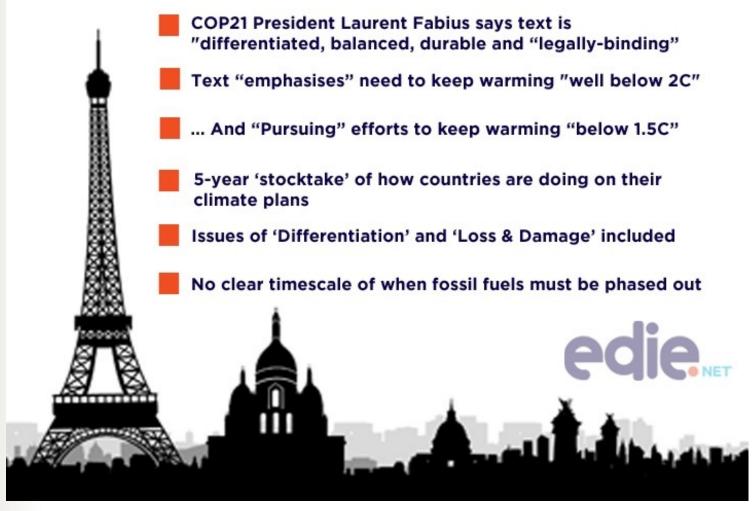
Issue #7

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.

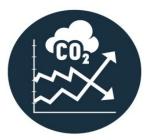














To keep global temperature increase below 2C (3.6F) and to pursue efforts to limit it to 1.5C.



186 countries submitted plans detailing how they reduce their greenhouse gas pollution through 2025 or 2030.



2023, every five years.



in the future.



Countries should reach global peaking of greenhouse gas emissions as soon as possible.

Source: UNEP, Global Trends in Renewable Energy Investment 2015

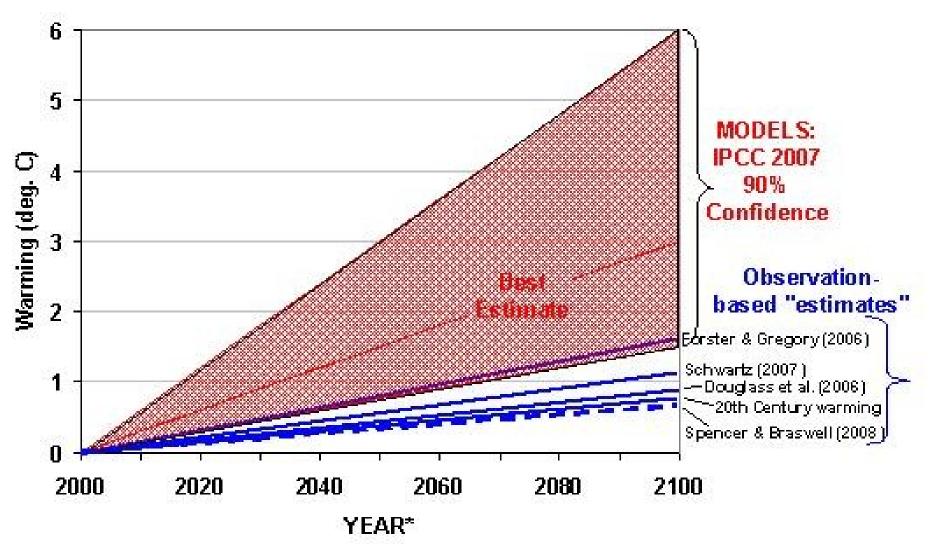
Emissions Targets for USA & China

- The Obama administration agreed to an economy-wide target of reducing U.S. greenhouse gas (82% of which is carbon dioxide (CO₂)) emissions by 26%-28% below its 2005 level in 2025.
- China agreed "to achieve the peaking of CO₂ 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.

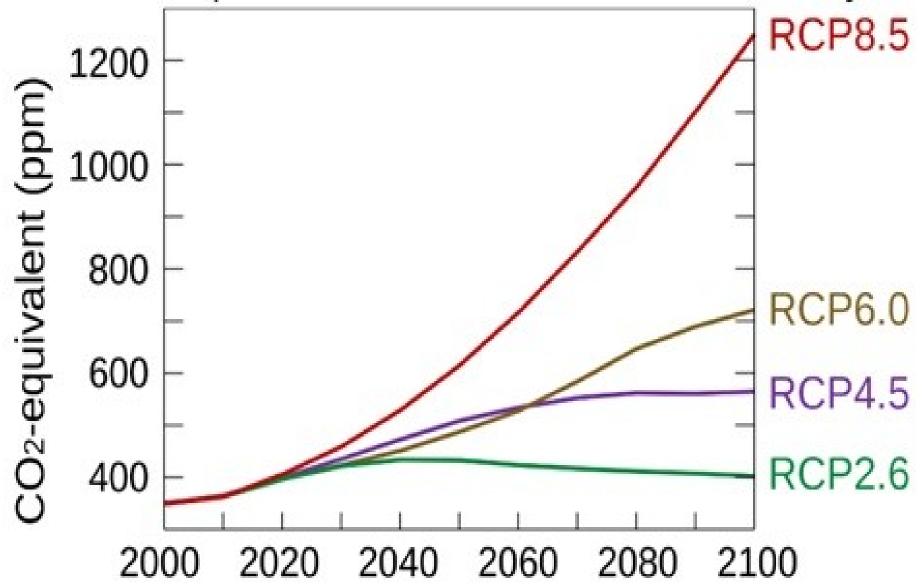
Issue #8

The UN IPCC Climate Models Are Not Realistic

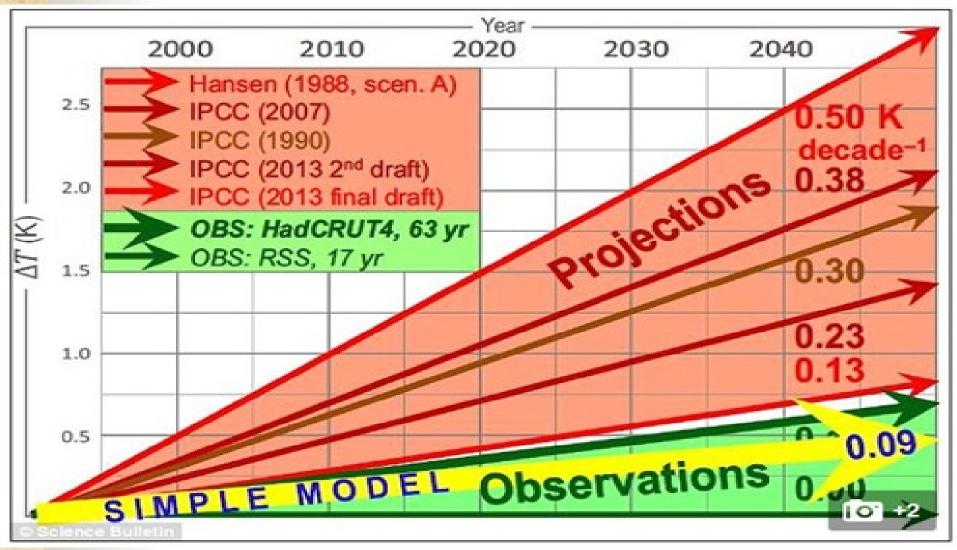
Models & Estimates

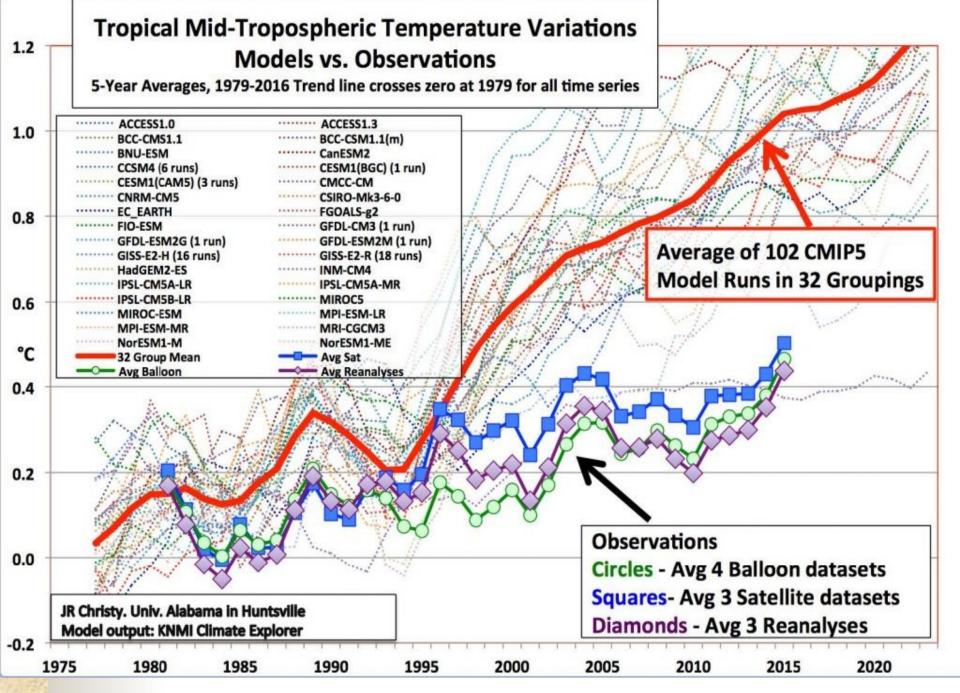


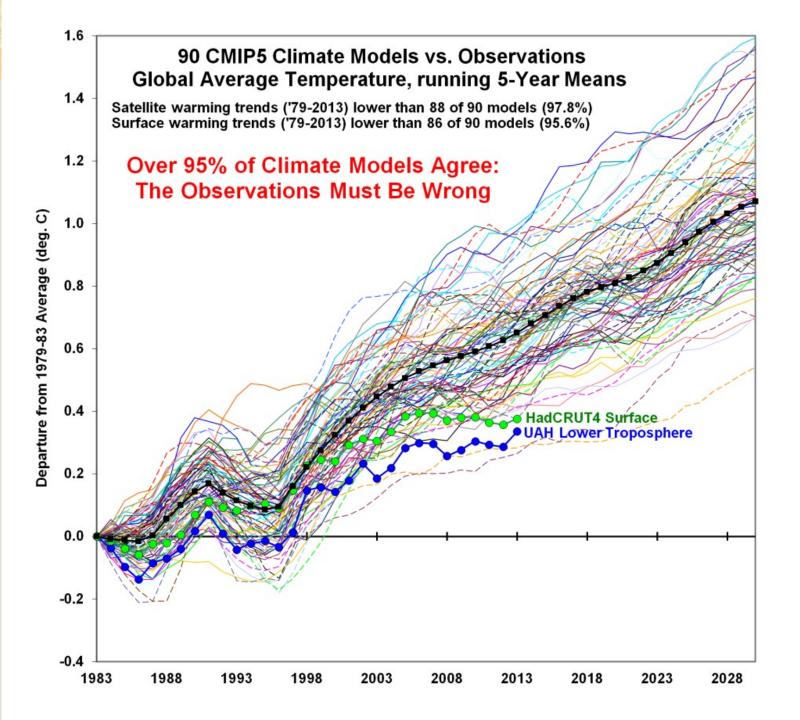
IPCC Representative Concentration Pathways



IPCC Change in Projections

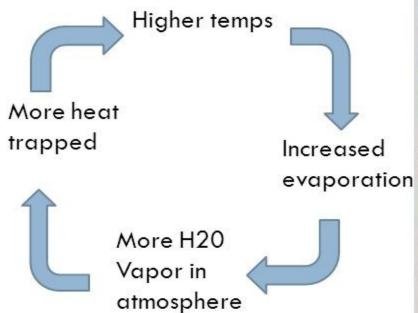


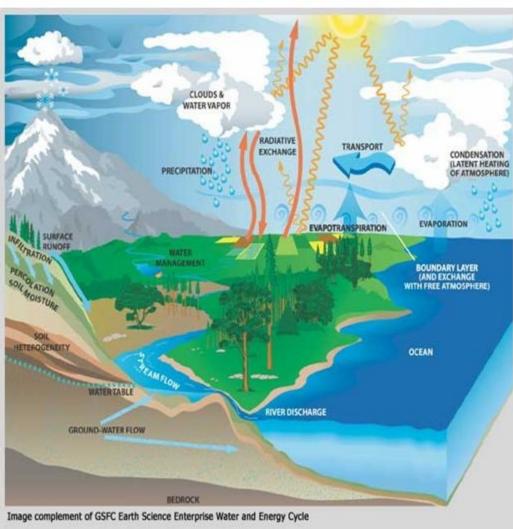




Water Vapor (H₂0)

- Most Abundant greenhouse gas
- Positive Feedback Cycle

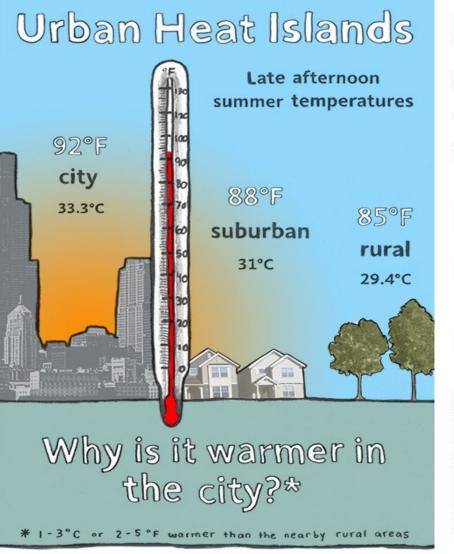


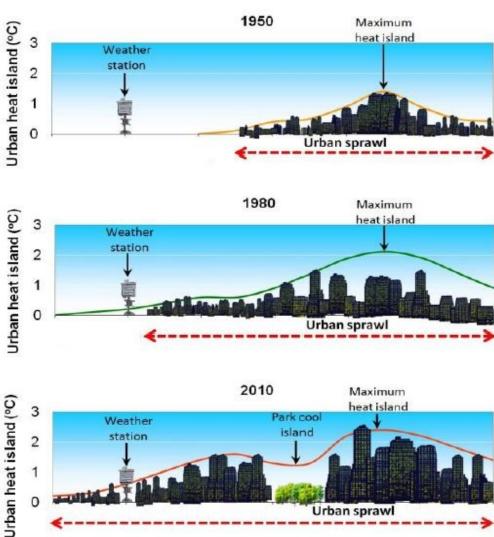


Issue #9

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

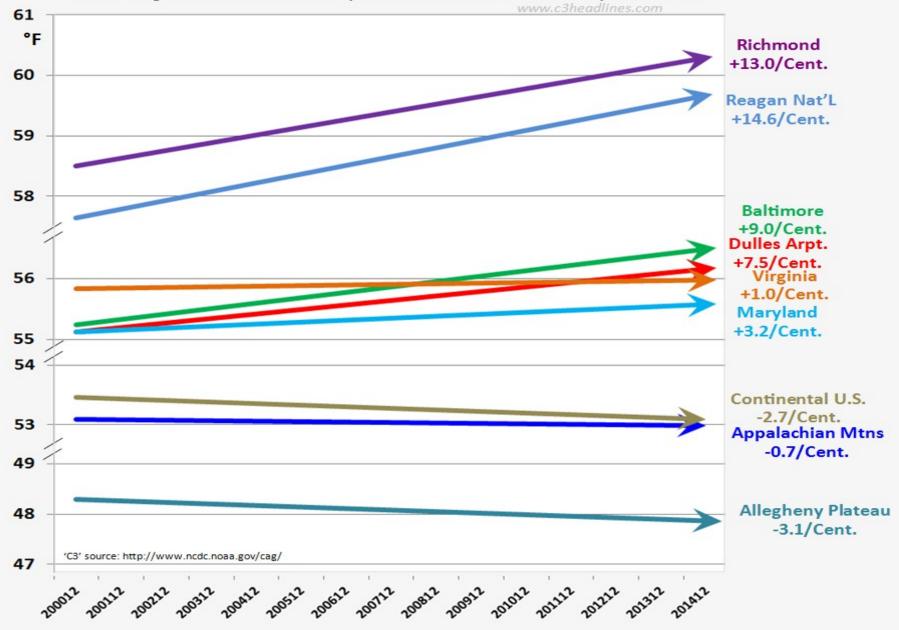
Urban Heat Island Effect



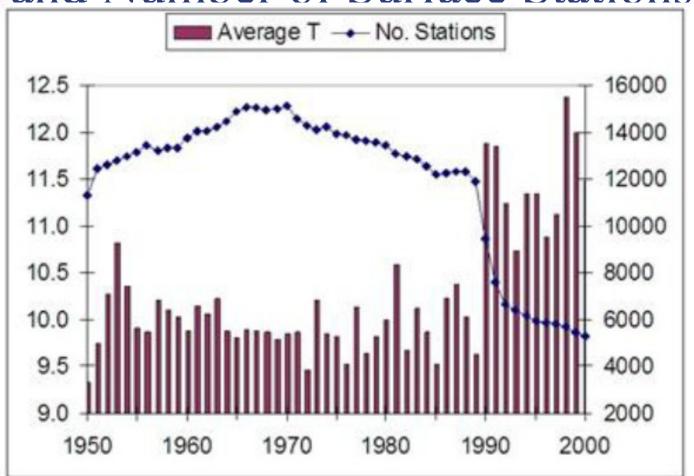


Unequivocal "Global" Warming Does Not Exist

Last 15 yrs: U.S. urban/airport areas vs. rural temperatures

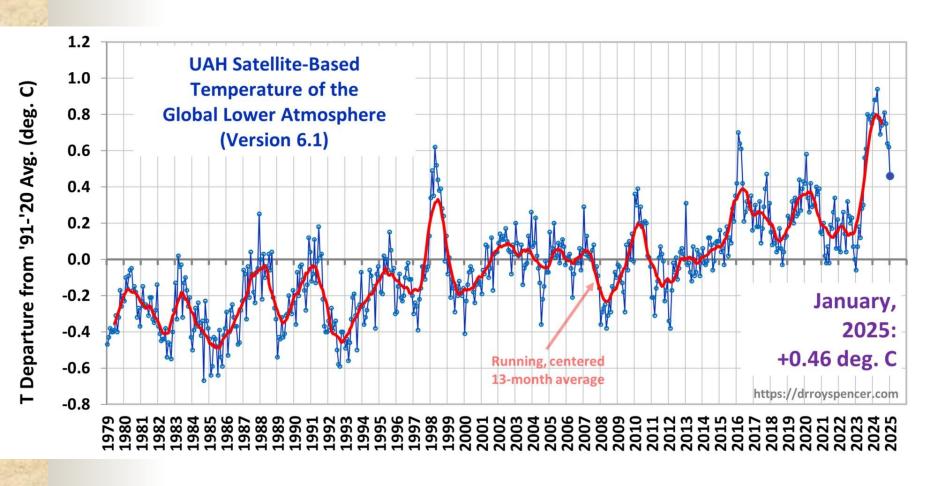


Correlation of Average Temperature and Number of Surface Stations



Eliminated data from weather stations likely to show global cooling

Satellite-Based Temperature



Issue #10: Polar Bears Thriving, Not Becoming Extinct



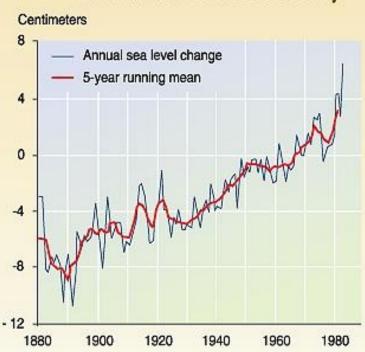
Issue #11

Sea Levels Are Not Rising As Fast As Predicted

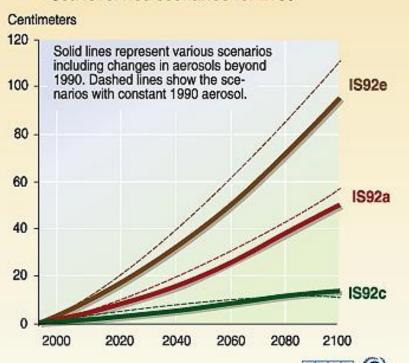
Sea Level Rise Projections

Sea level rise due to global warming

Sea level rise over the last century



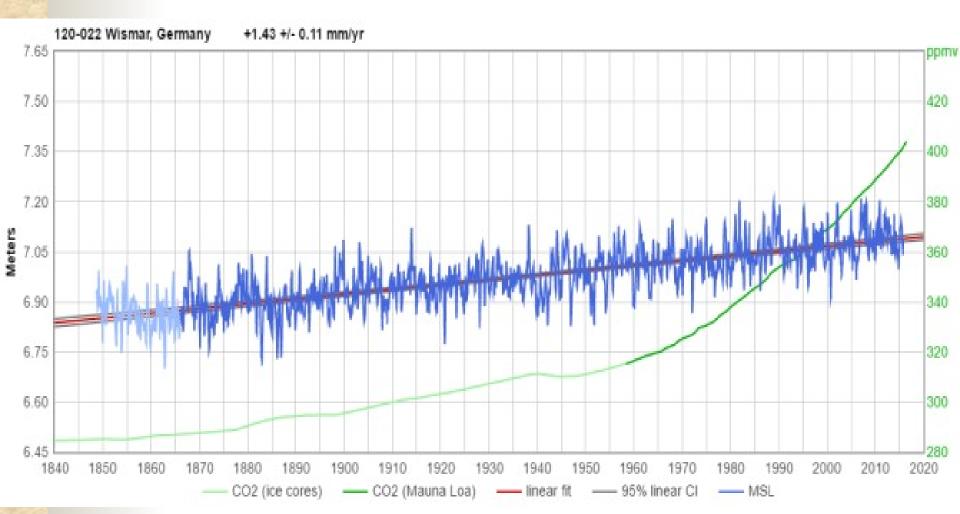
Sea level rise scenarios for 2100



GRID (Arendal UNEP

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



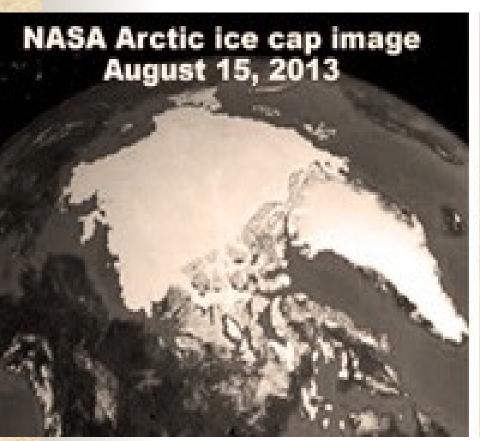
SETTLED.
YOU'RE BEING
HUSTLED!

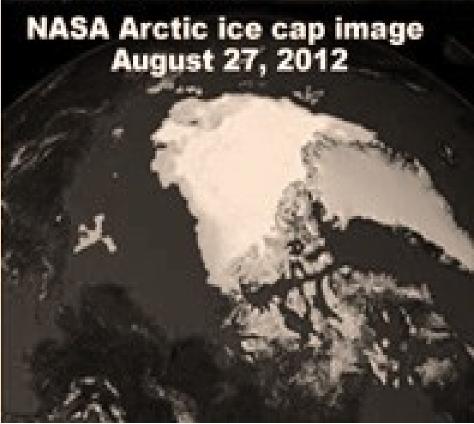


ClimateHustle.com

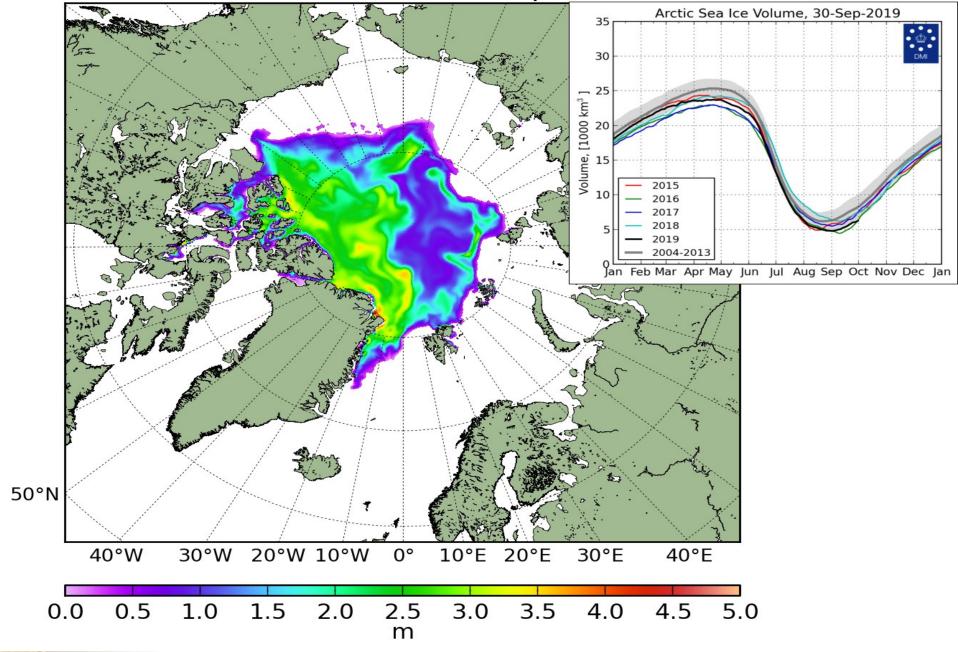


Arctic Ice Cap Actual vs. Prediction

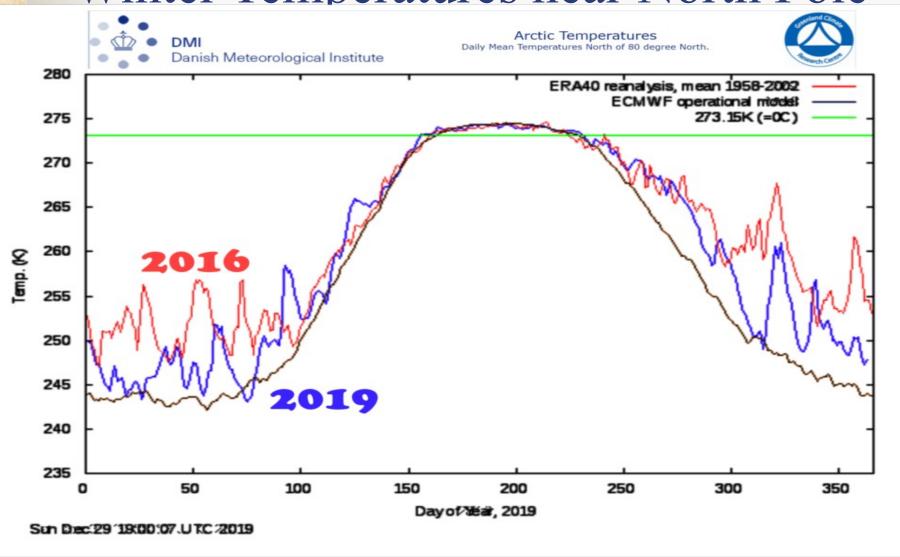




Sea Ice Thickness, 30-Sep-2019



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

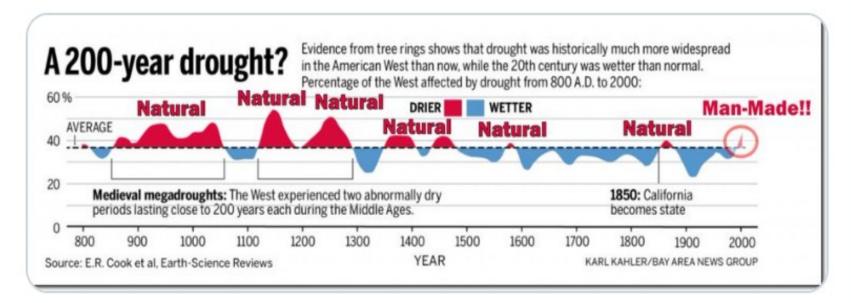


Tony Heller @Tony_Heller · 5m

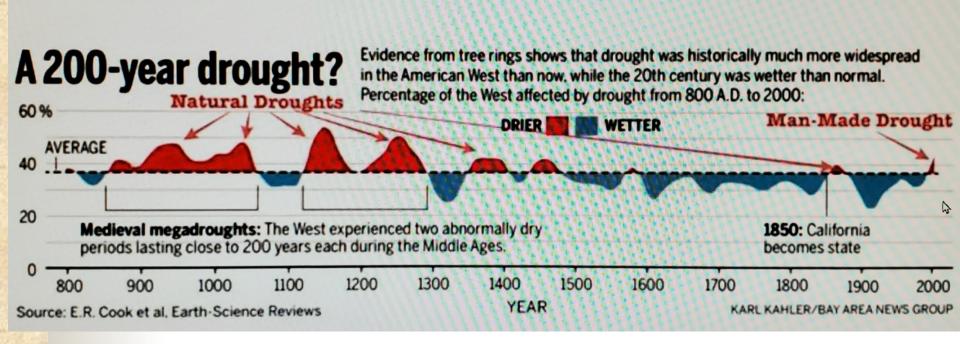
Replying to @RyanMaue

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...

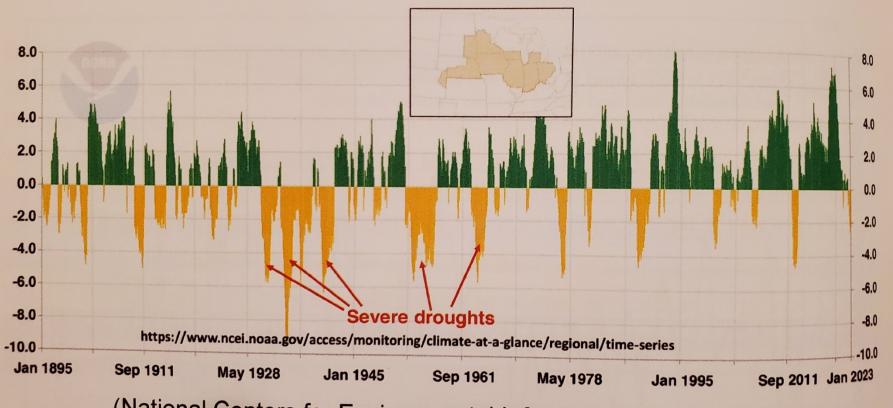


Policy Based Science Fiction



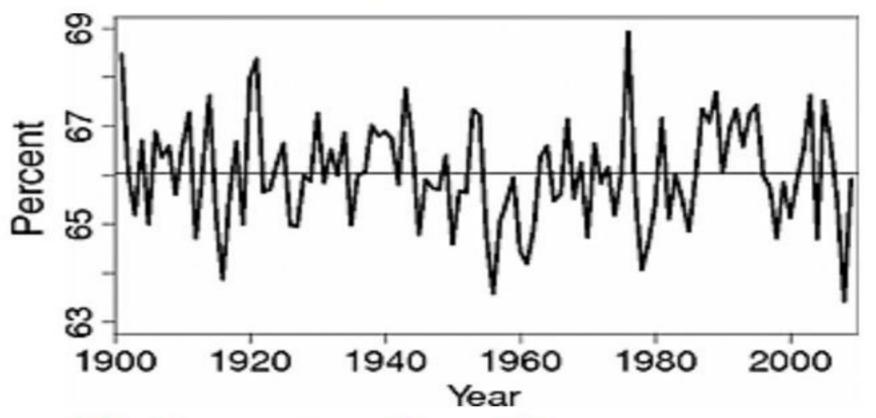
Corn Belt Drought in the US





(National Centers for Environmental Information-Climate 2023)

No change in drought percentage since 1901



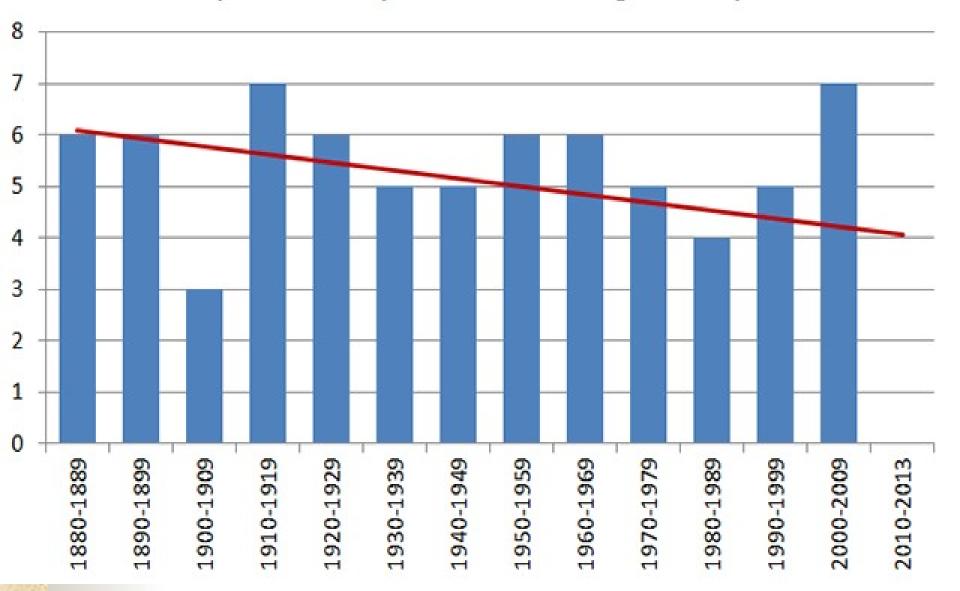


CFACT.org



Intense Hurricanes since 1880 by Decade

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



Deadliest United States hurricanes

Rank	Hurricane	Season	Fatalities
1	"Galveston"	1900	8,000-12,000
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

Play (k)







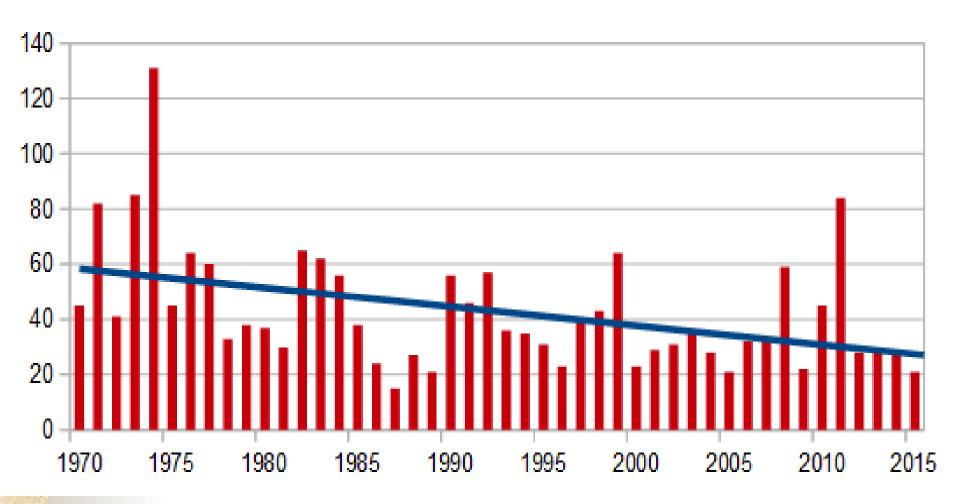




US Tornadoes

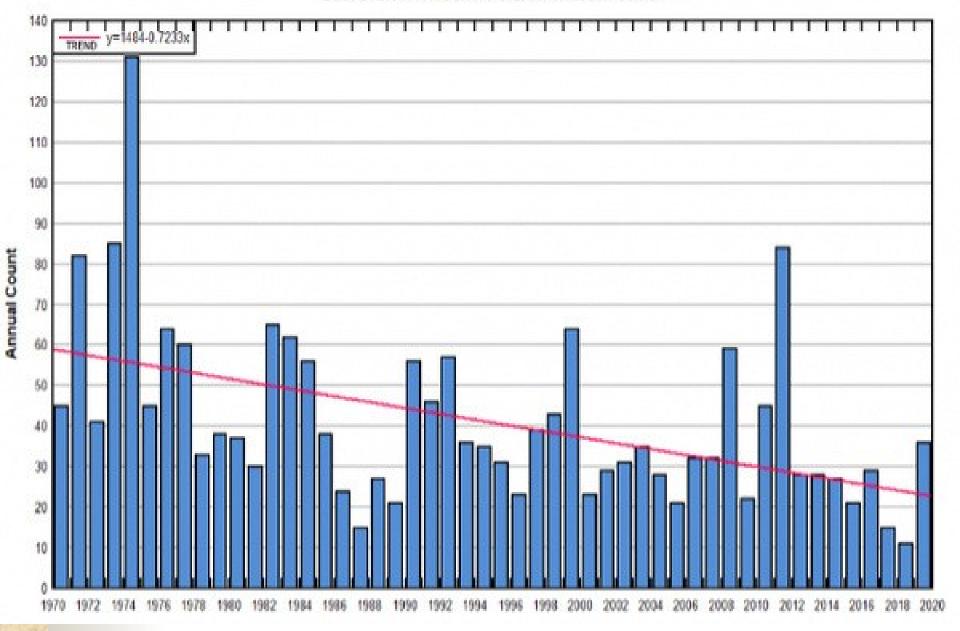
Annual Count of US Tomadoes EF-3 and Stronger

1970 to 2015

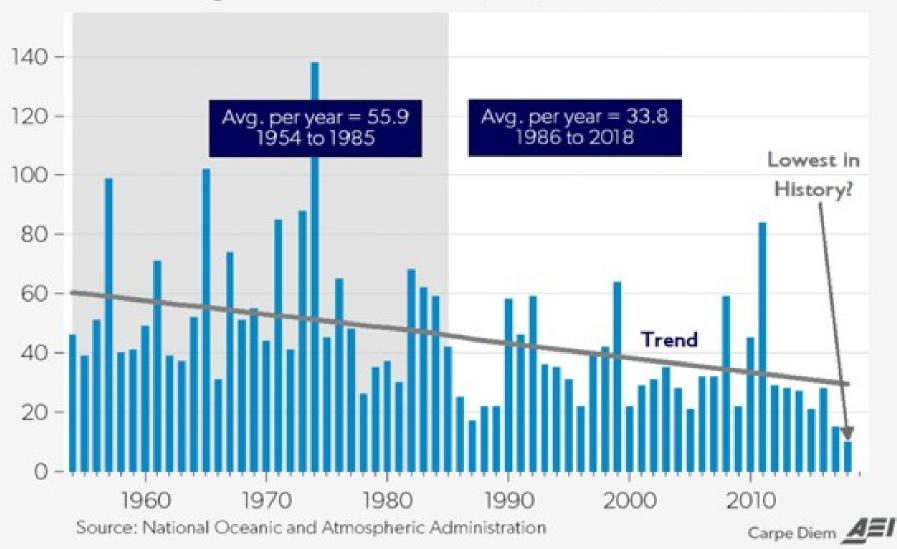


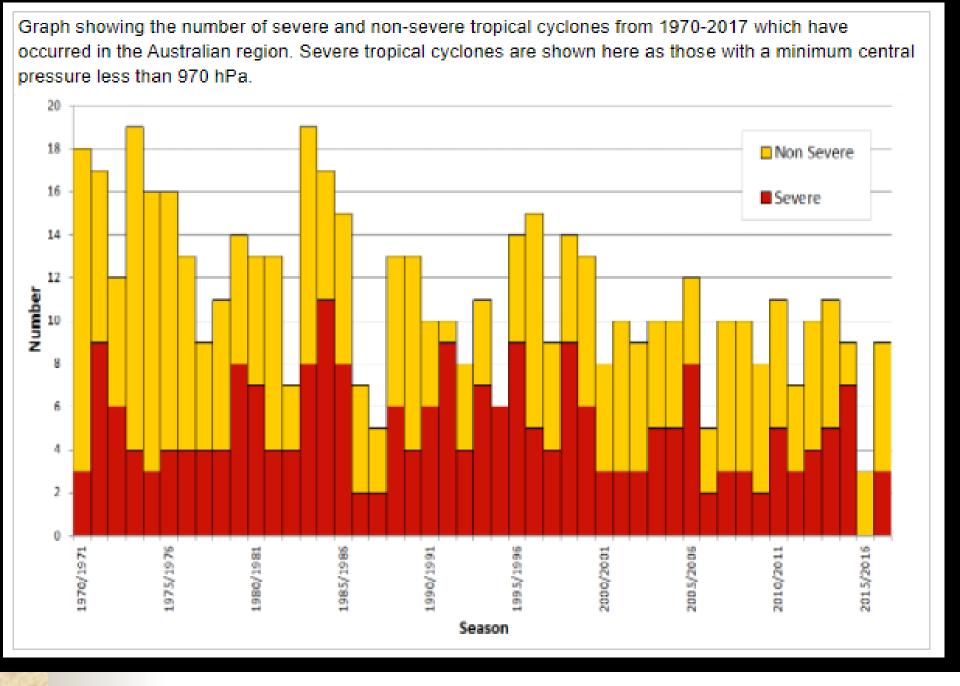
U.S. Annual Count of Strong to Violent Tornadoes (F3+) 1970-2020

Data Source: NOAA/NWS Storm Prediction Center



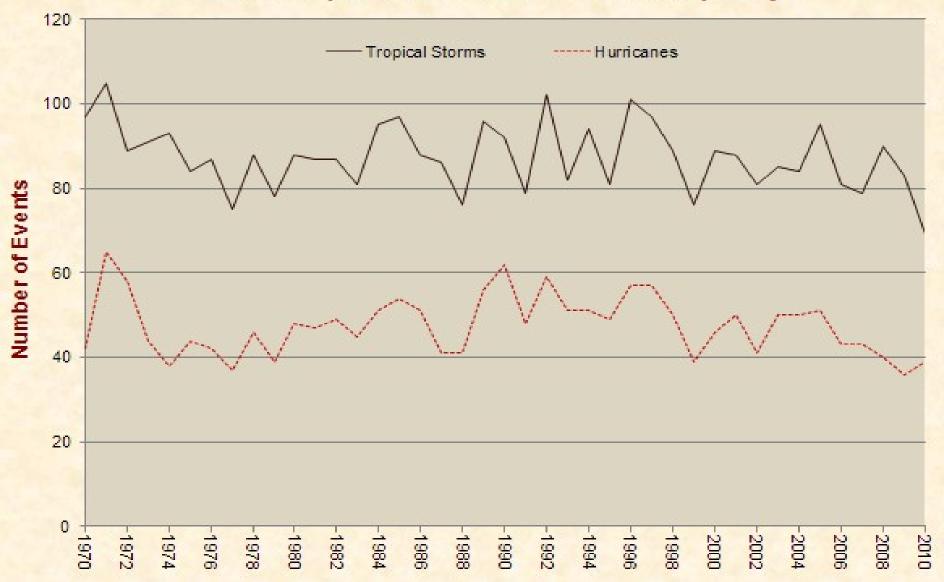
Strong to Violent Tornadoes (F3+) in the US, 1954 to 2018



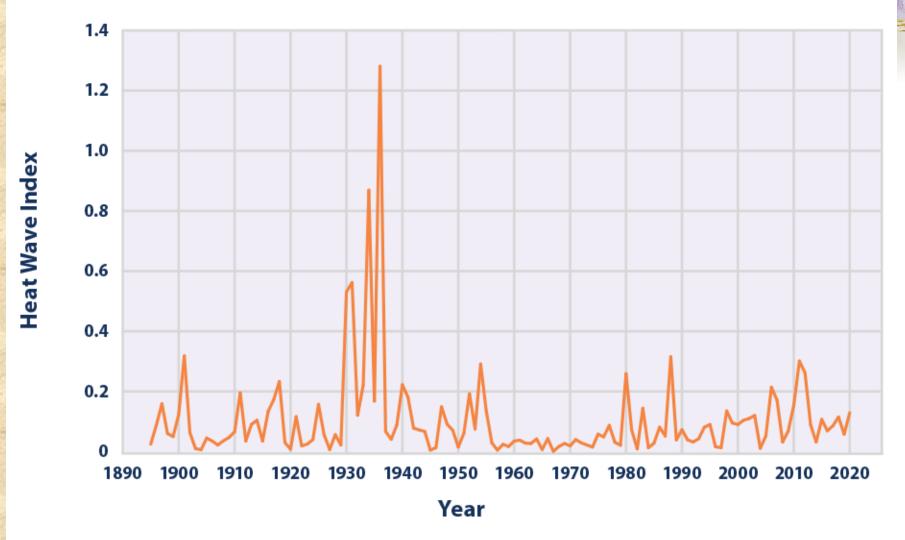


Extreme Weather?

Global Tropical Storm and Hurricane Frequency



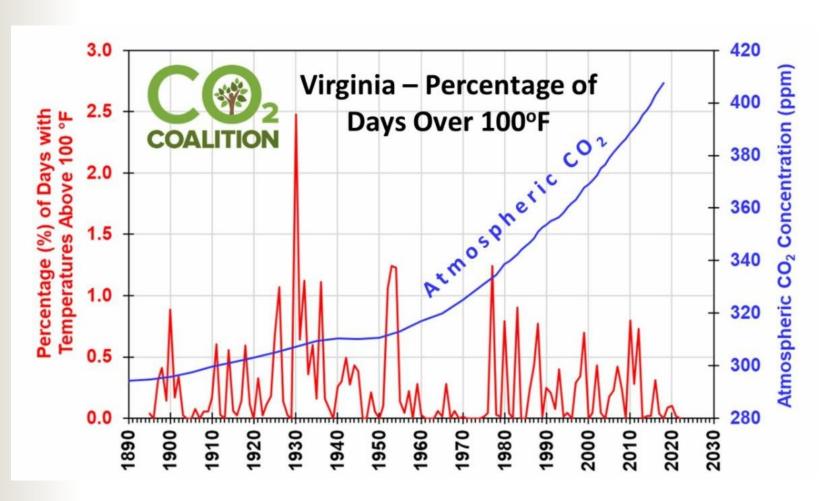
U.S. Annual Heat Wave Index, 1895–2020



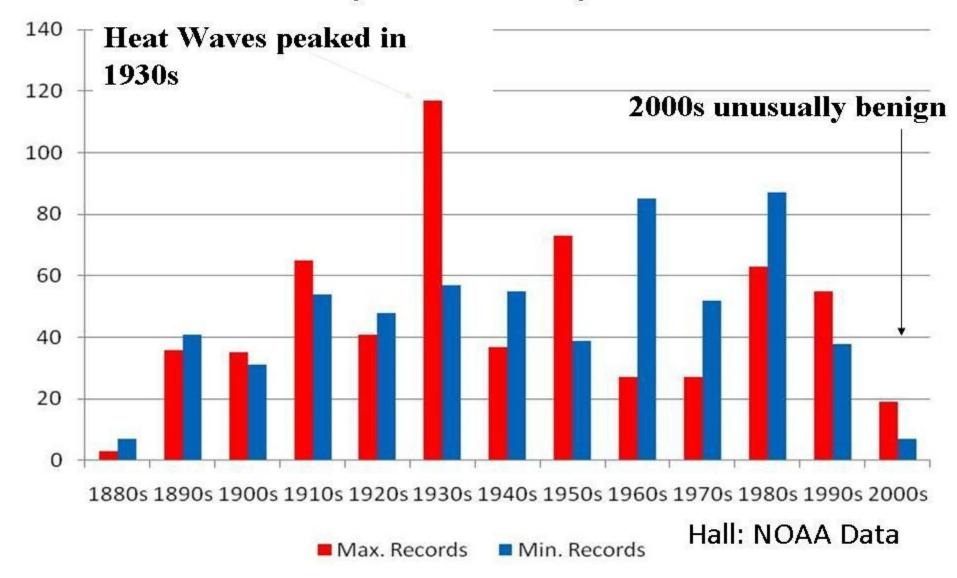
Data source: Kunkel, K. 2021. Updated version of Figure 2.3 in: CCSP (U.S. Climate Change Science Program). 2008. Synthesis and Assessment Product 3.3: Weather and climate extremes in a changing climate. www.globalchange.gov/browse/reports/sap-33-weather-and-climate-extremes-changing-climate.

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

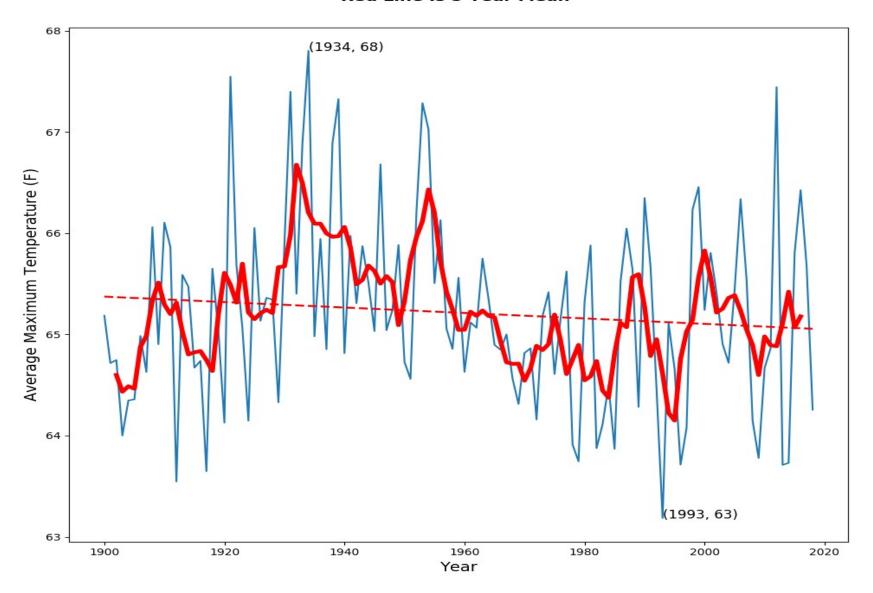
Percentage of Days Over 100 F



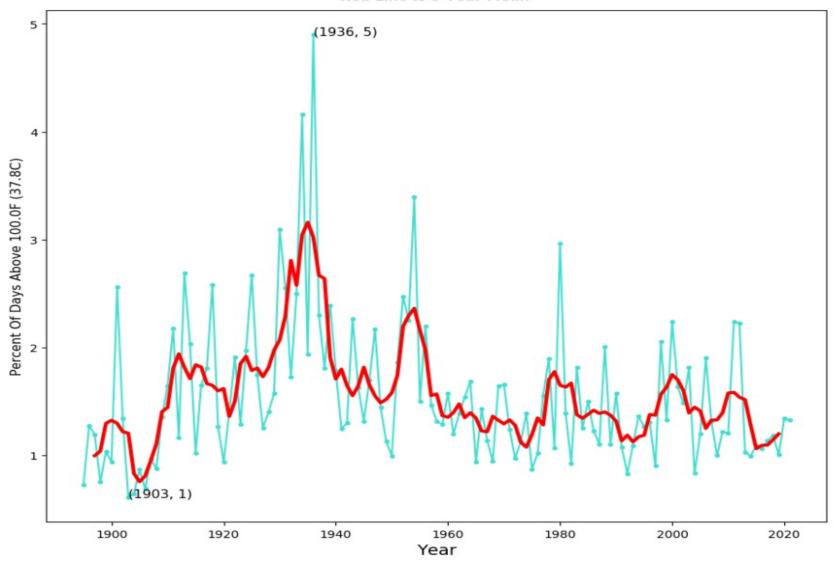
U.S. State Maximum and Minimum Monthly Records by Decade



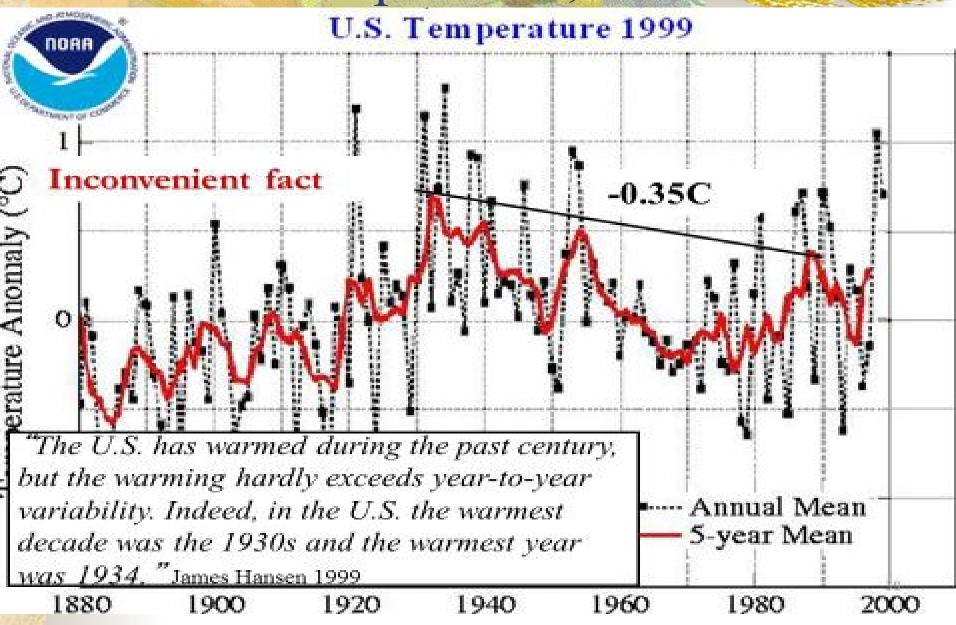
Average Maximum Temperature Vs. Year 1900-2018 At All US Historical Climatology Network Stations Red Line Is 5 Year Mean

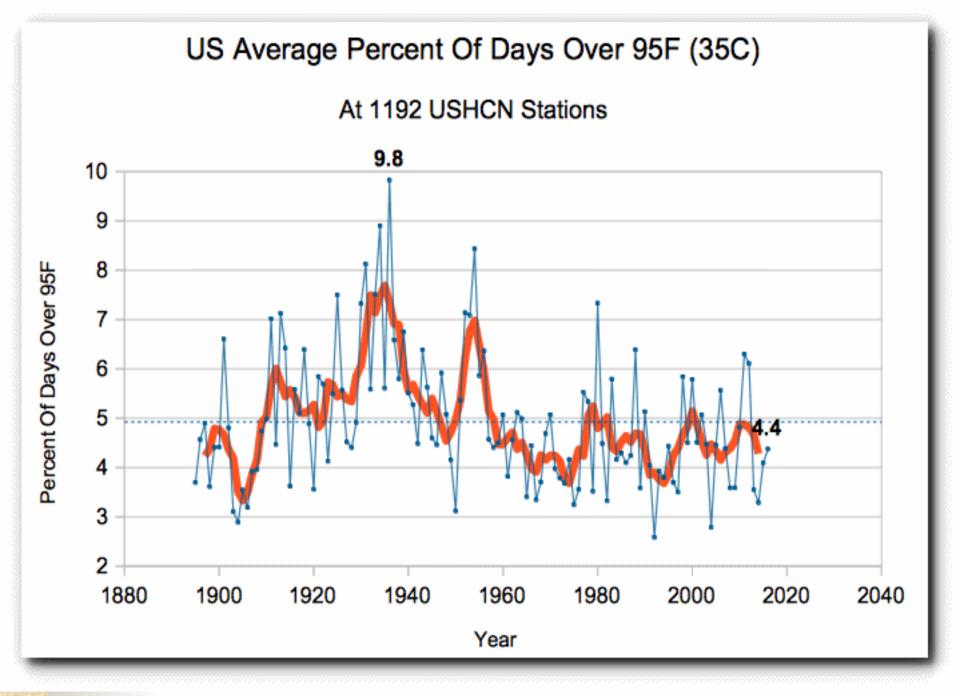


Percent Of Days Above 100.0F (37.8C) Vs. Year 1895-2021 At All US Historical Climatology Network Stations Red Line Is 5 Year Mean

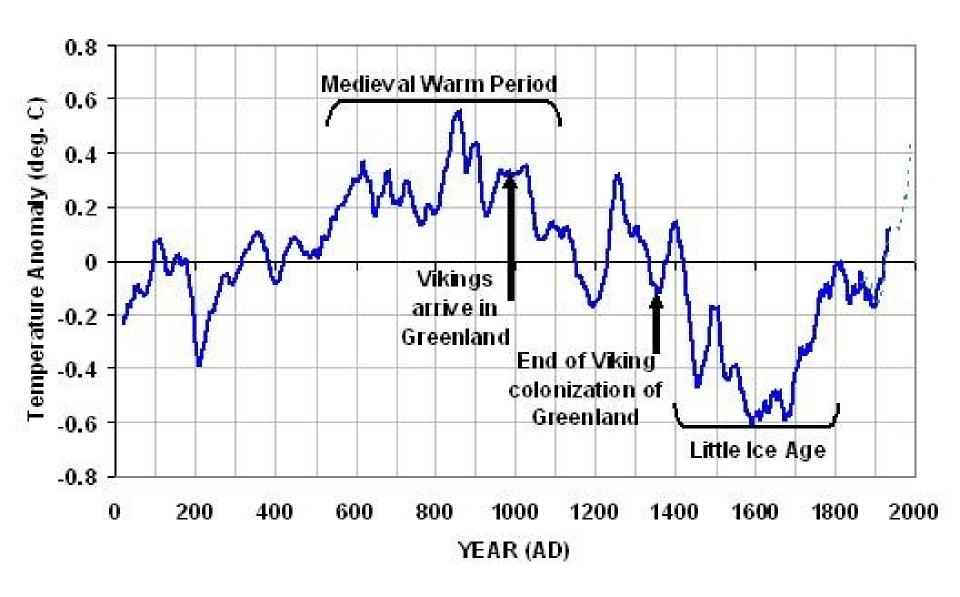


U.S. Temperature, 1880-2000



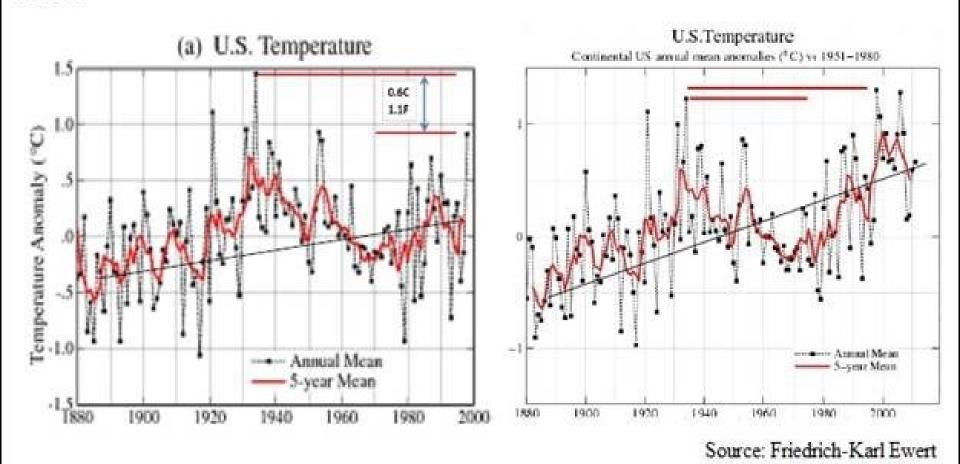


2000 Years of Global Temperature



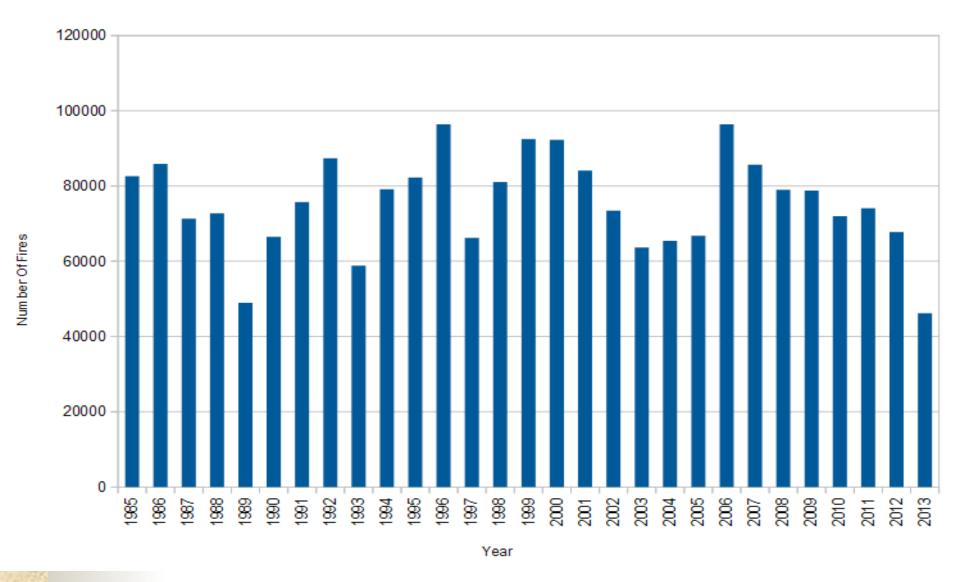
Temperature Data Manipulation

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



Frequency of U.S. Wildfires

US Forest Fire Count



US Forest Fire Burn Acreage

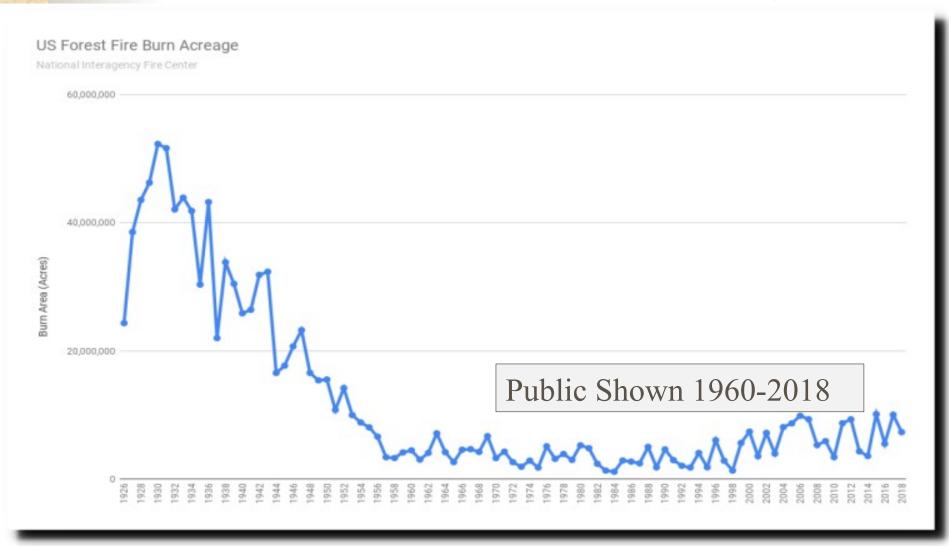


Figure 63: Area burned in the United States 1926 to 2018

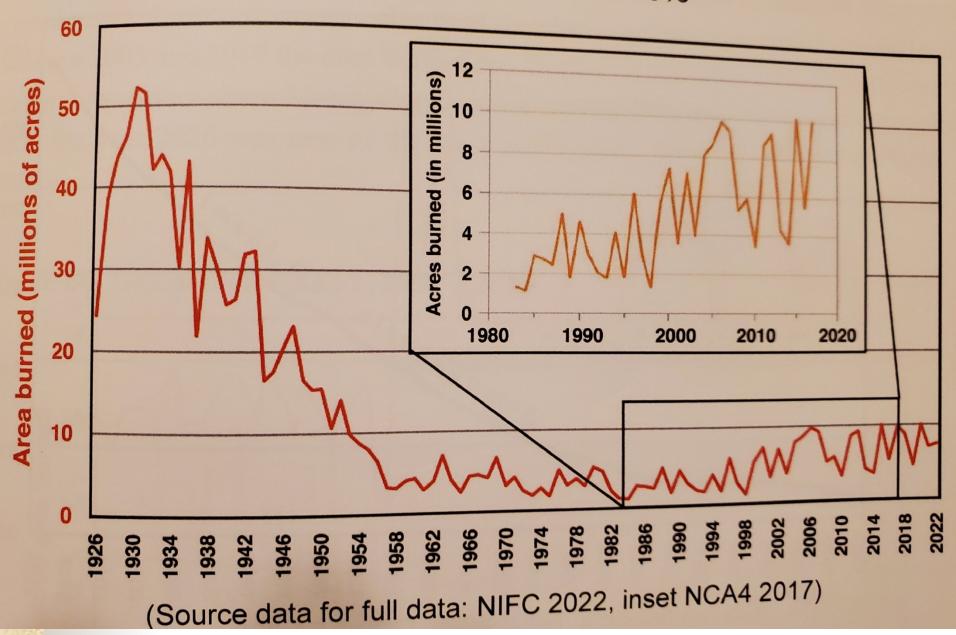
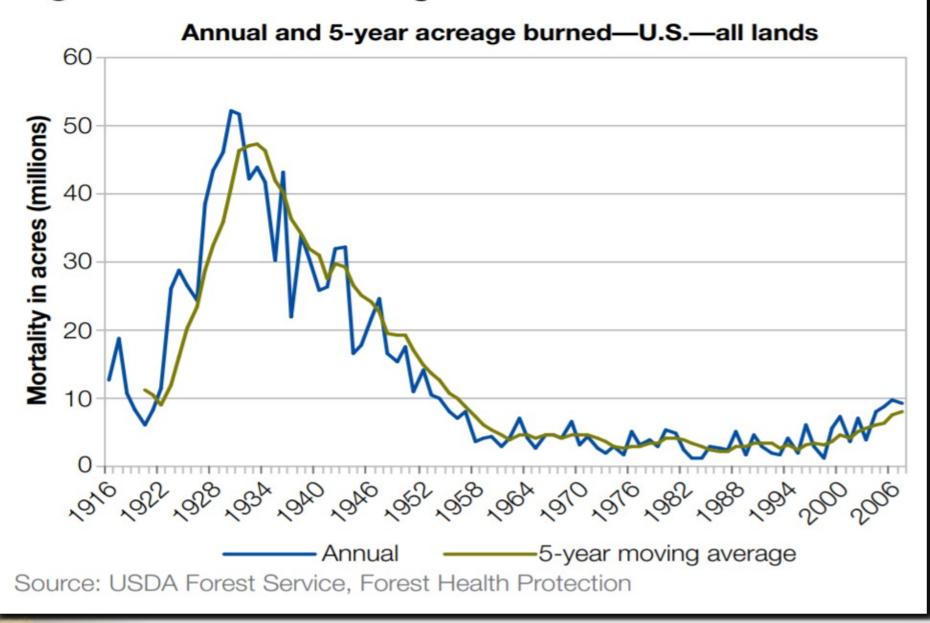
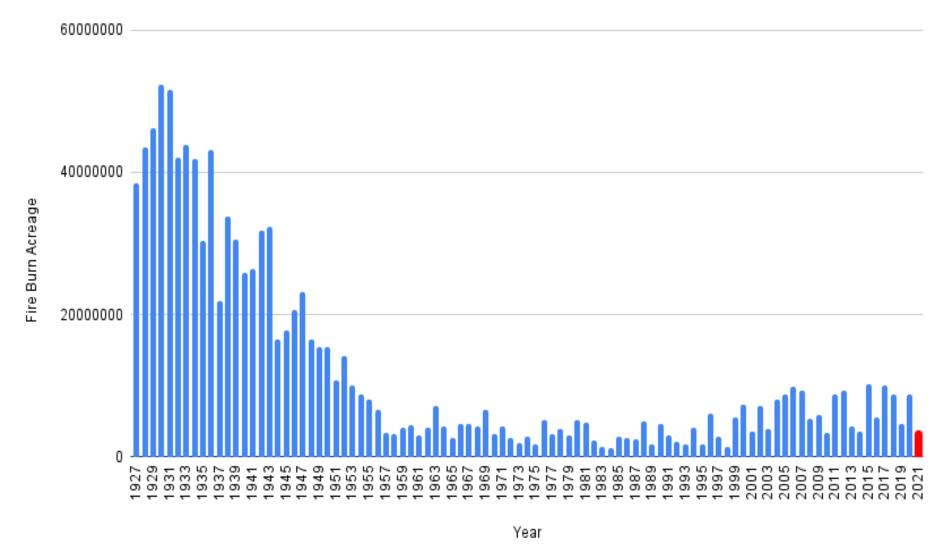


Figure 16-1. Total acreage burned.

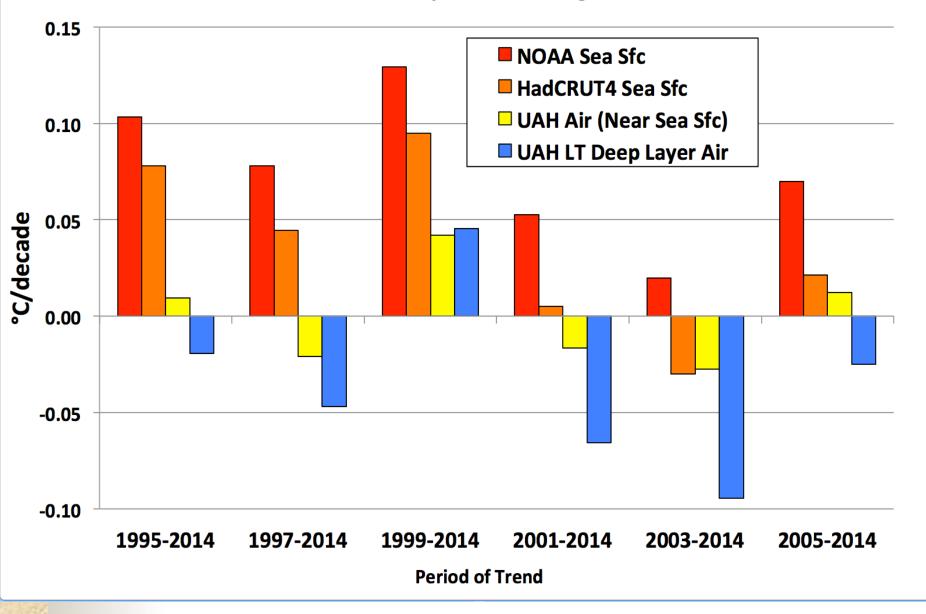


Fire Burn Acreage vs. Year

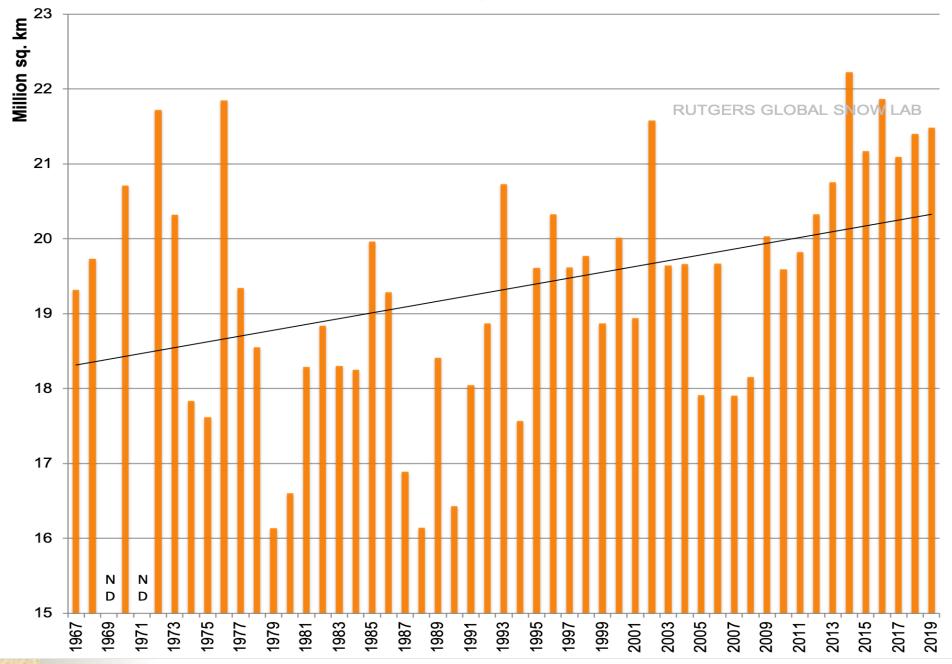
National Interagency Fire Center



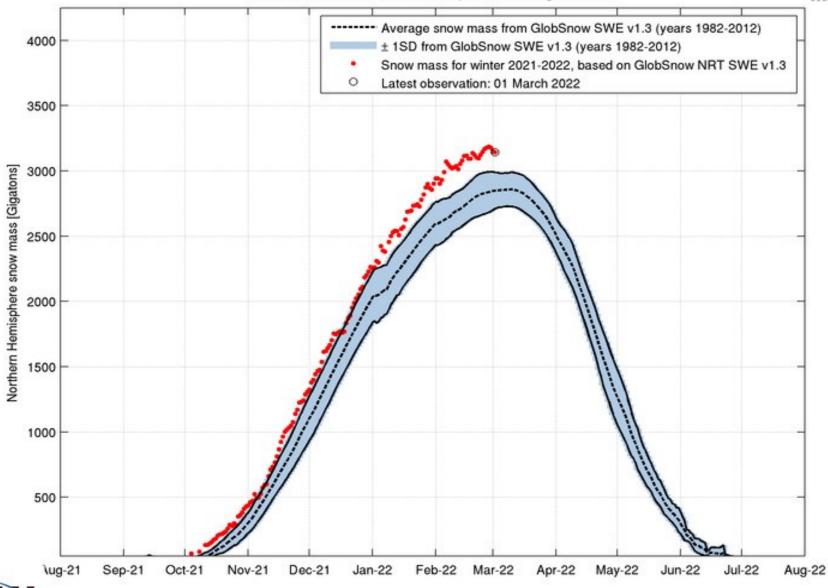
Trends in Ocean Temperatures (20S-60N) 10 to 20 Year periods ending in 2014

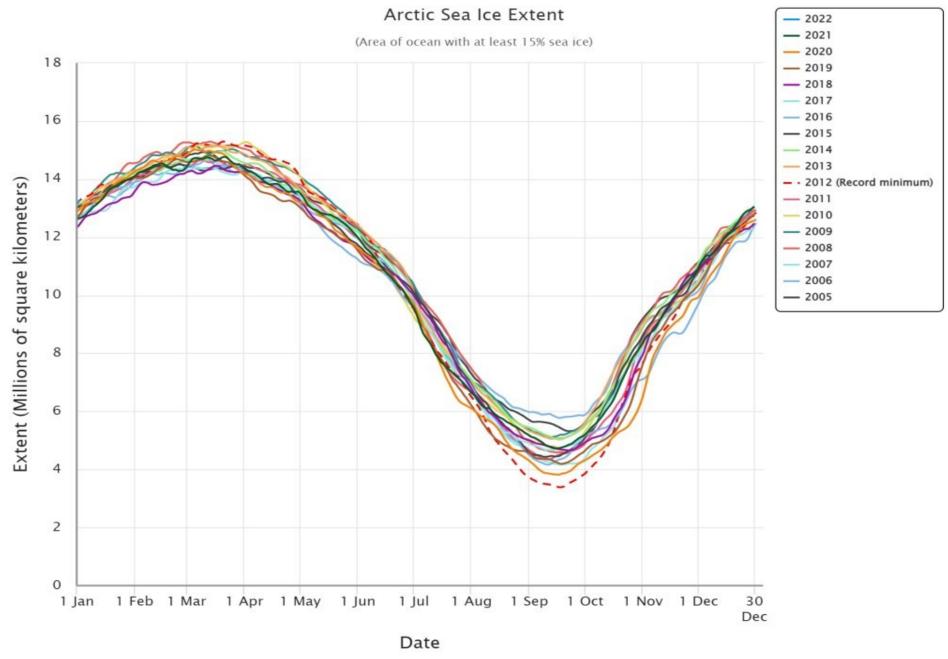


Fall Northern Hemsiphere Snow Extent

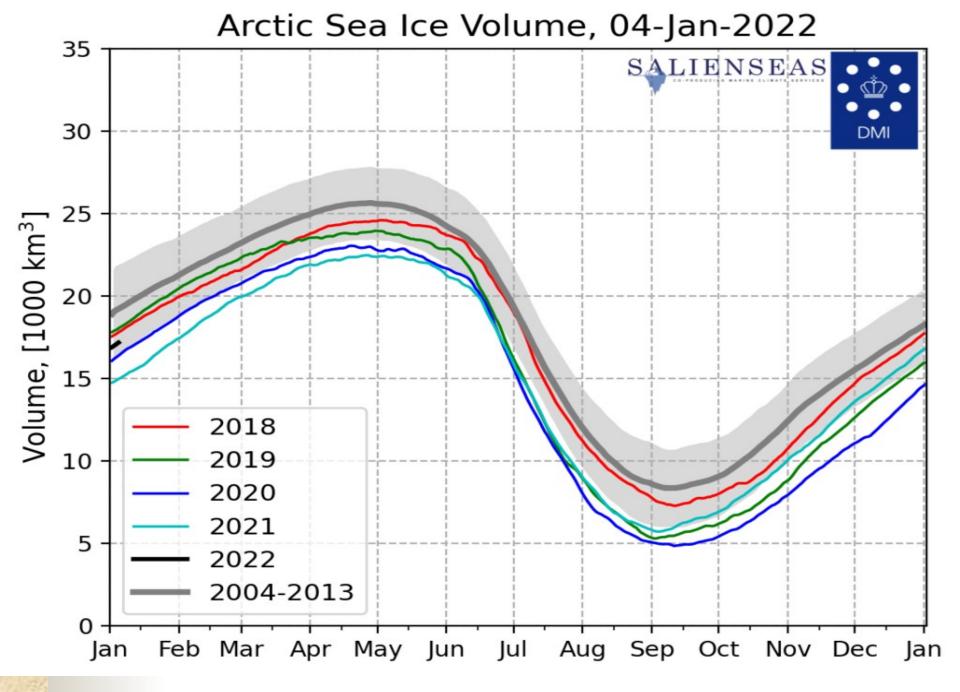




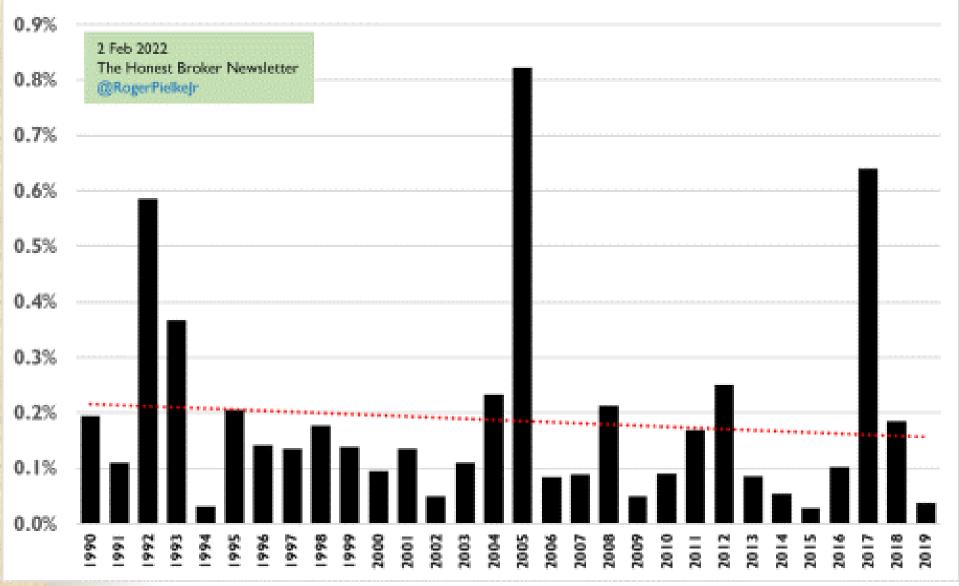




National Snow and Ice Data Center, Boulder, CO



US Weather and Climate Disasters: 1990 to 2019 as a proportion of GDP Sources: SHELDUS, OMB



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

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

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



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 "97 percent of scientists agree" 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 <u>John Kerry</u> 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" (<u>Obama</u>, 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

- Seven climate consensus studies
 - Oreskes 2004, <u>Doran 2009</u>, 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 human-caused global warming.



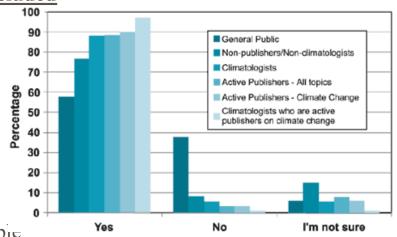
Why Scientists Disagree on GW, pg. 8ff

e.g. Doran Survey Bias

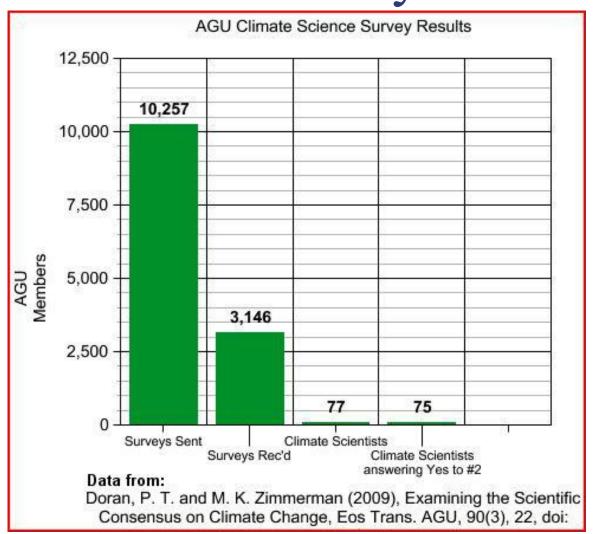
- Doran/Zimmerman 2009 two-question survey:
 - "Q1. When compared with pre-1800s levels, do you think that mean global temperatures have generally <u>risen</u>, fallen, or remained relatively constant?
 - Q2. Do you think human activity is a **significant** contributing factor in changing mean global temperatures?"
- Survey Sent to 10,257 Earth scientists

Why Scientists Disagree on GW, pg. 13-14

- 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



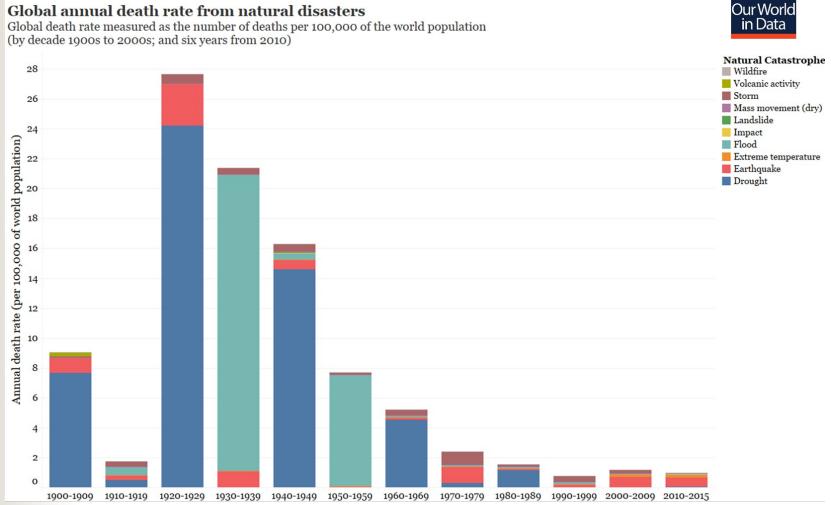
Doran GW Survey Results



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



Data source: OFDA/CRED International Disaster Database – www.emdat.be – Université Catholique de Louvain – Brussels – Belgium.

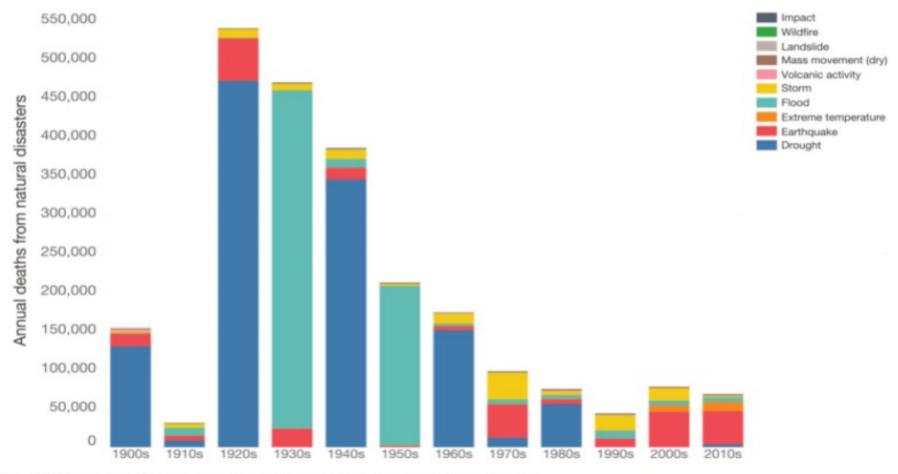
The author Max Roser licensed this visualisation under a CC-BY-SA licence. You are welcome to share but please refer to its source where you find more information: https://ourworldindata.org/natural-catastrophes/

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).



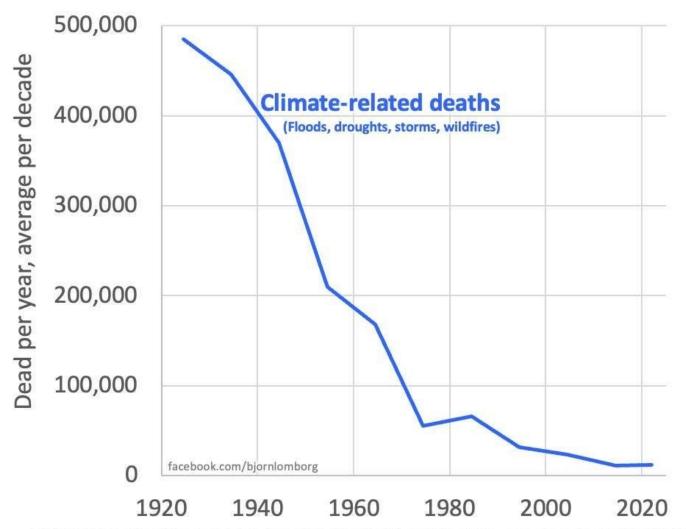
Source: EMDAT (2017): OFDA/CRED International Disaster Database, Université catholique de Louvain – Brussels – Belgium. The data visualization is available at OurWorldinData.org. There you find research and more visualizations on this topic.

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

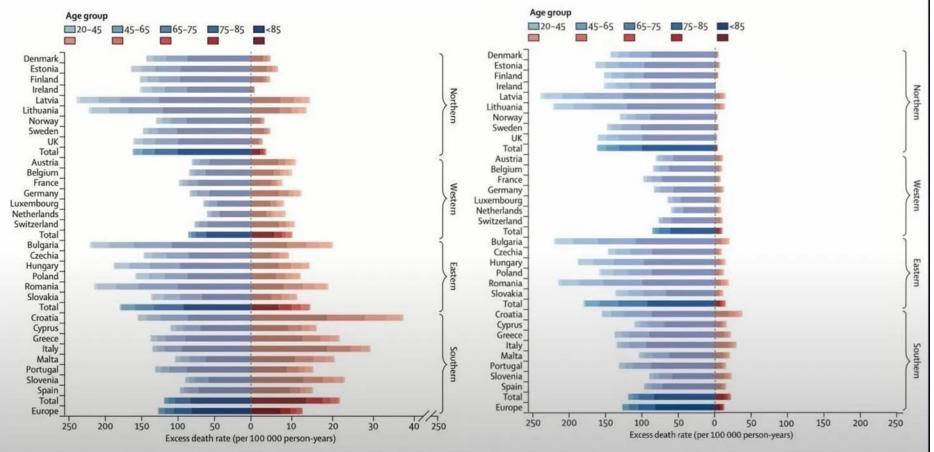


OFDA/CRED International Disaster Database Jan 1, 2024, https://public.emdat.be, deaths averaged over decades 1920-29, 1930-1939, ... 2010-2019 placed at decadal midpoints (1924.5, 1934.5 etc), with average data for 2020-23 placed at 2022.

Update of Fig. 17 from https://www.sciencedirect.com/science/article/pii/S0040162520304157.

10x more Cold Deaths than Heat Deaths in Europe

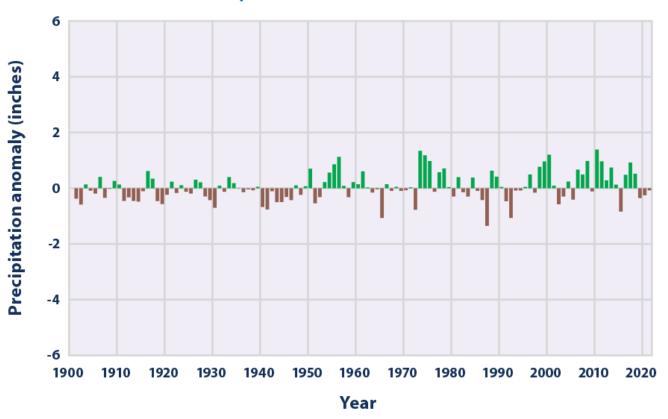
On the left, how it is presented, on the right with equal axes



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

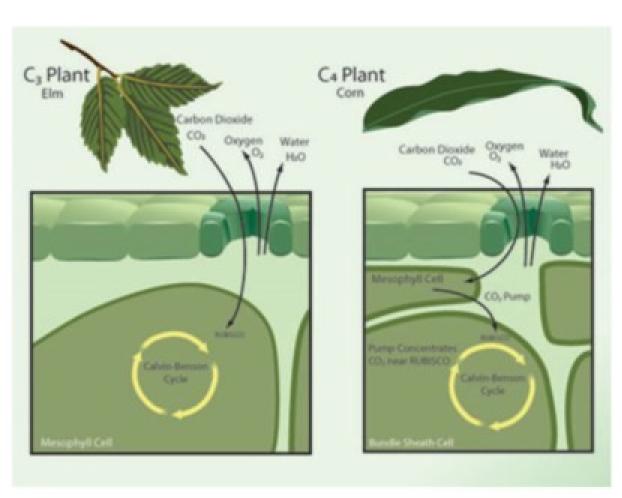
Precipitation Worldwide, 1901-2021



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.

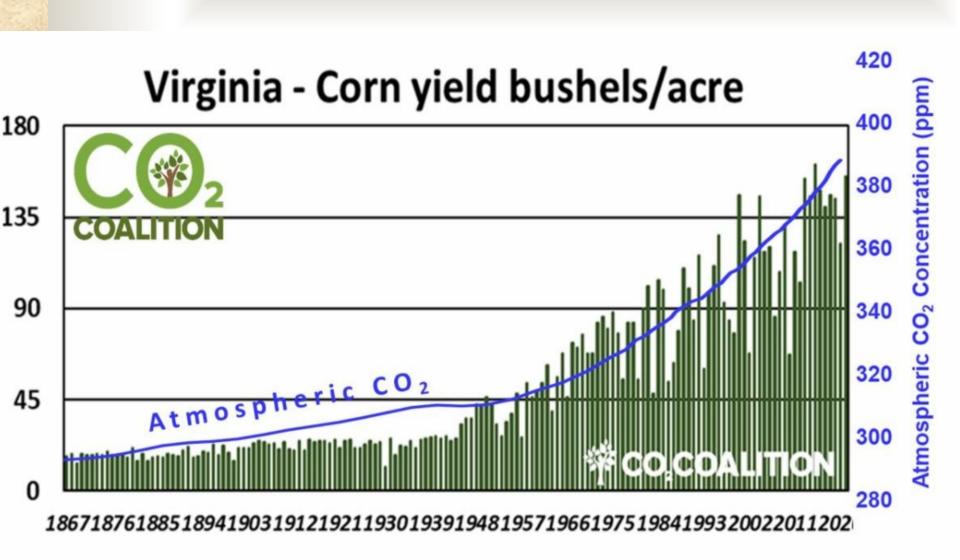
For more information, visit U.S. EPA's "Climate Change Indicators in the United States" at www.epa.gov/climate-indicators.

How CO2 As Plant Food Works

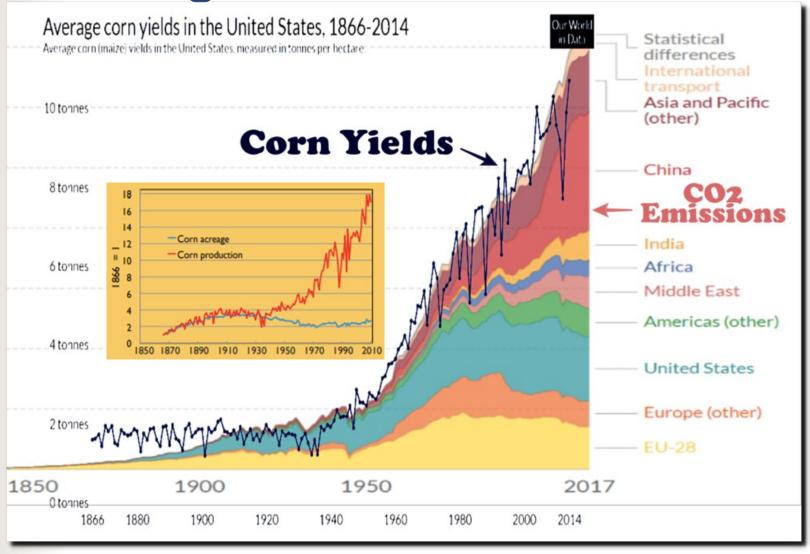


More CO₂ greatly benefits plants because:

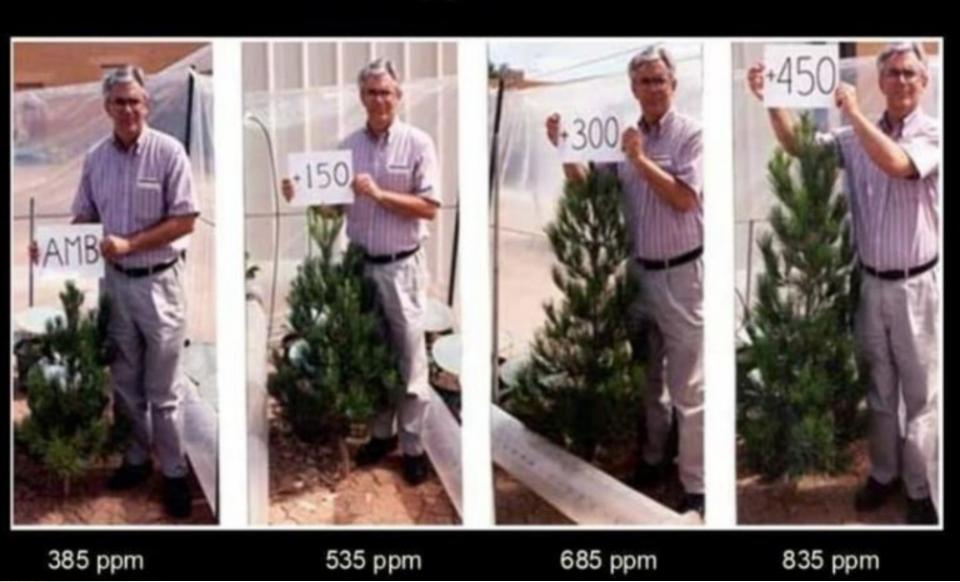
- 1. They need less water if there is more CO₂.
 2. More CO₂
- 2. More CO₂ suppresses harmful photorespiration.



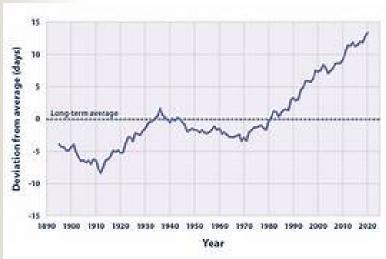
Average Corn Yields in the US

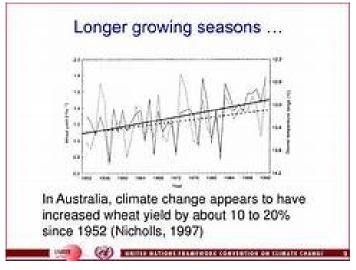


Here is what happens with more CO2



Increased Growing Season & A Greening Planet

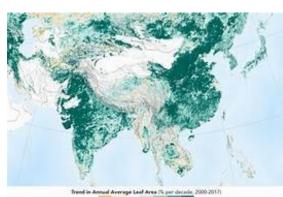




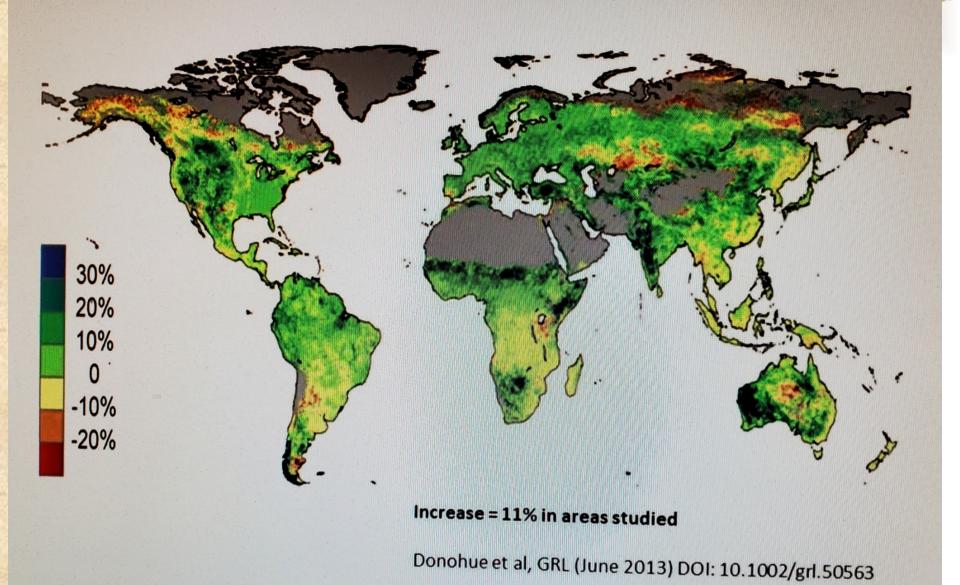
Observed Increase in Frost-Free Season Length







Global Greening From CO2 Fertilization: 1982-2010



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)

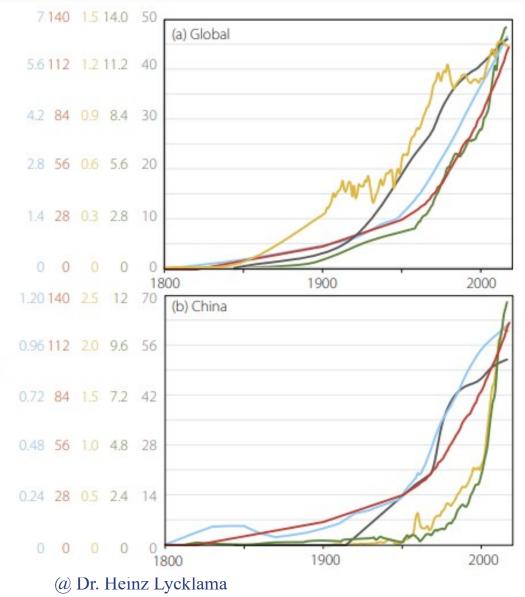
Emissions per capita (t carbon)

Changes in human welfare:

Life expectancy

Per-capita GDP (000 2011\$)

Population (billions)



What Do The Experts Say?

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, water vapor is the dominant greenhouse gas.

 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] The Earth would be an ice cube if it were not for 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"

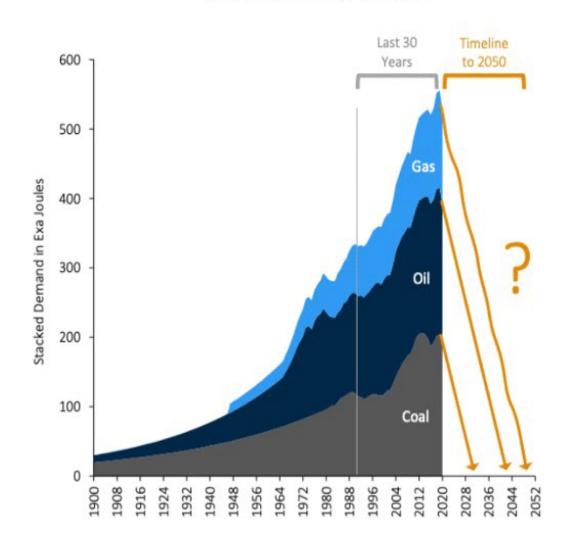
- Two prominent climate scientists have taken on the EPA new rules to cut CO2 emissions in electricity generation, arguing that the regulations "will be disastrous for the country, for no scientifically justifiable reason."
- William Happer and Richard Lindzen argued that the claims used by the EPA to 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.

Global Energy Needs Won't Disappear Overnight

Traditional Energy Demand



In Conclusion

- UN IPCC CC models have failed miserably
- Sea levels only increased 1.5 mm per decade
- 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-existent problem</u>
- 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) **can and do** control climate change
- Severe storms **are not** 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

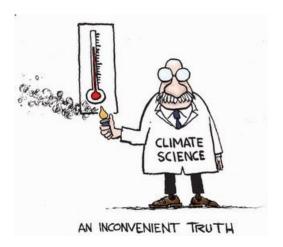


Gen. 8:22, While the earth remains, seedtime and harvest, cold and heat, summer and winter, day and night, shall not cease.

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

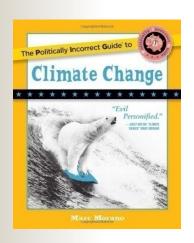
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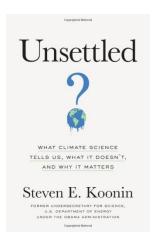
Dr. Heinz Lycklama
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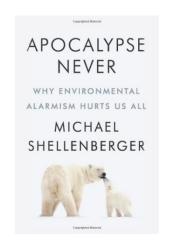


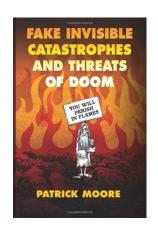
HeinzLycklama.com/RefutingGWA

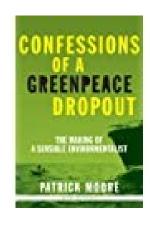
60+ Books Refuting GWA

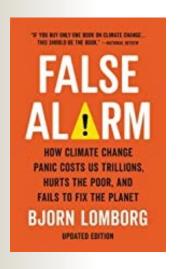


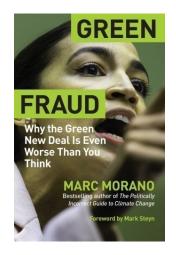




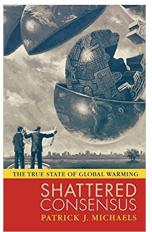


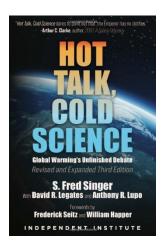












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- PhoenixClimatePresentation.ppt
- History of CC in Greenland (DVD)
- The Great GW Debate by Michael Oard (DVD)
- Global Warming by Coral Ridge (DVD)
- Articles by Dr. Larry Vardiman, Climate Scientist at ICR
 - Does CO2 Drive Global Warming?
 - A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

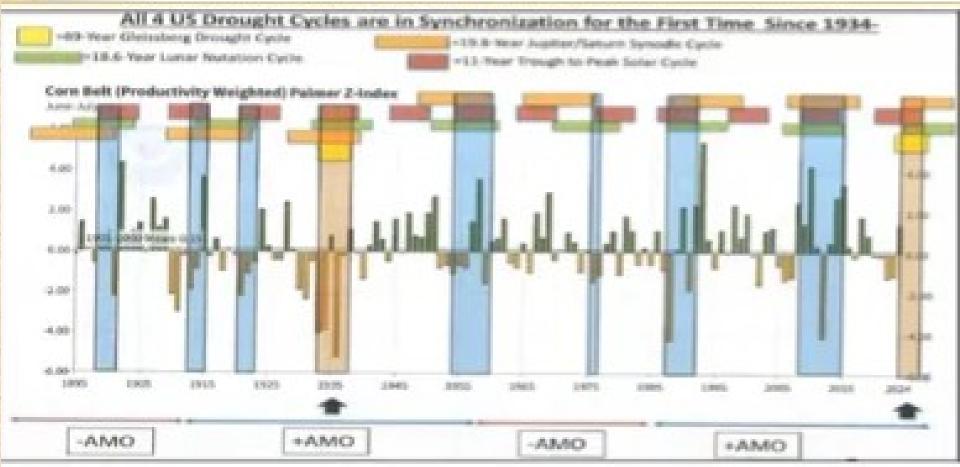
More References

- 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

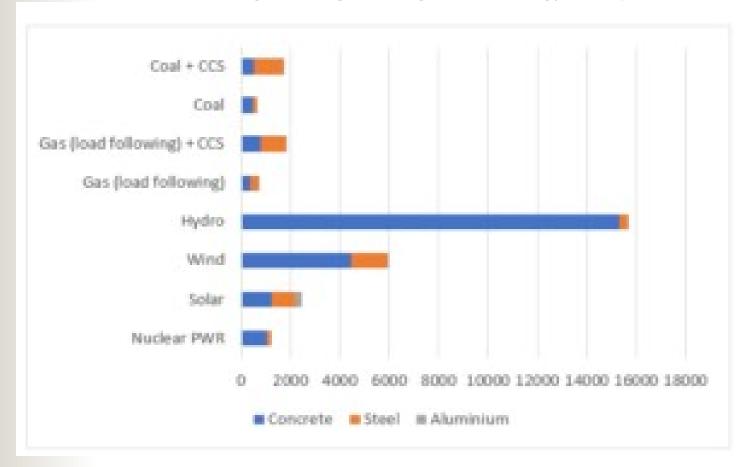


STUDY OF CYCLES

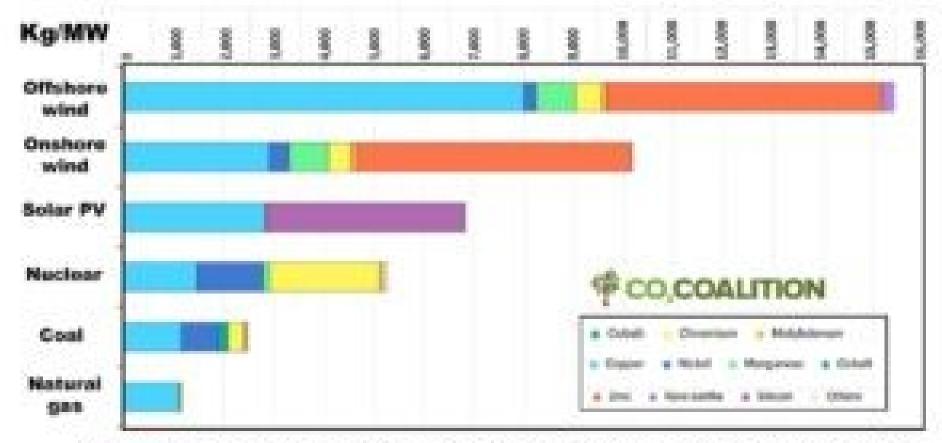
Five Key Climate Questions

- 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

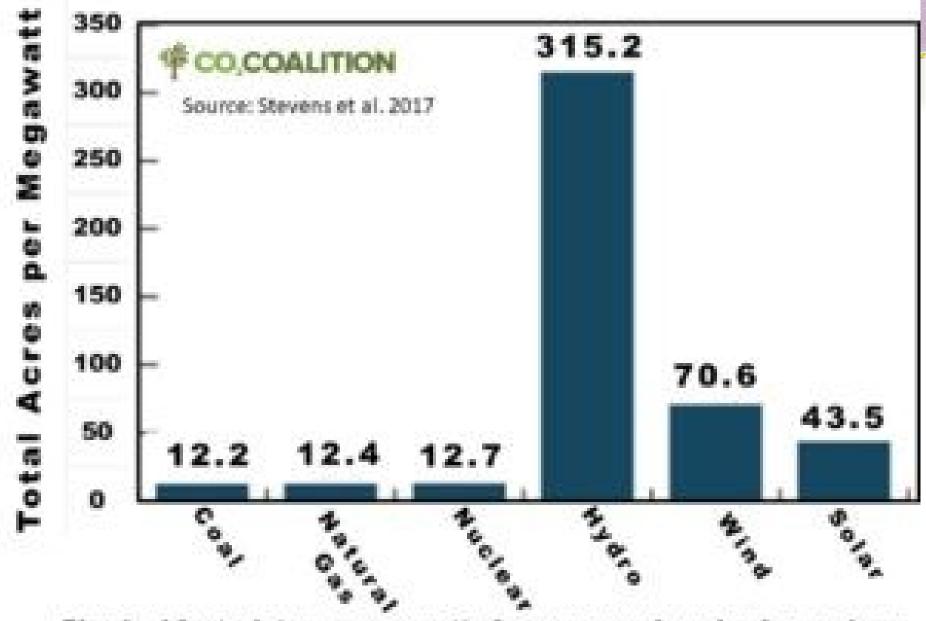


Metals Demand for Clean Energy



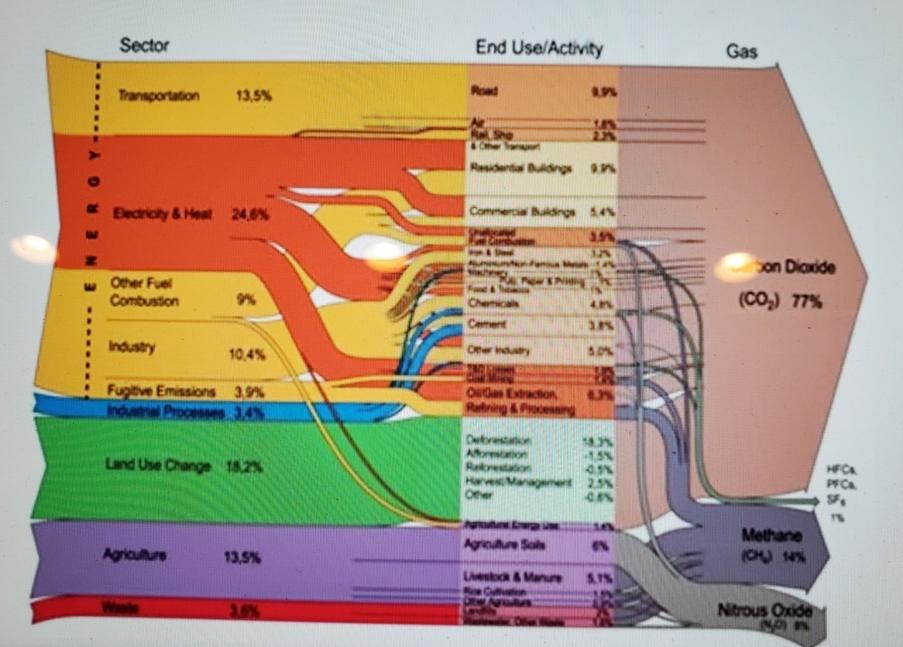
Metals demand for clean energy technologies compared to other power generation sources

Source: Mile 2022. The State of Compat Minerals in Clean Energy Transitions.



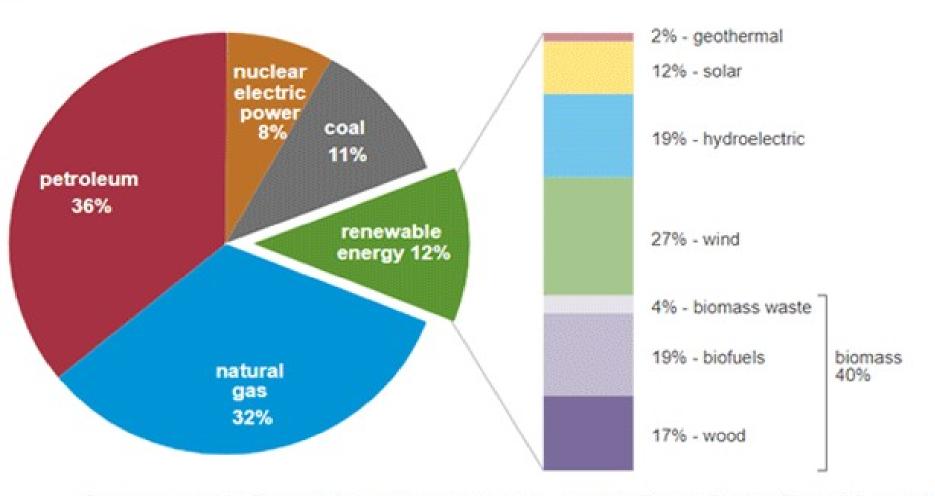
Physical footprint per megawatt of energy produced using various energy technologies

Mitigation = Reducing GHG:



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

total = 97.33 quadrillion British thermal units (Btu) 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

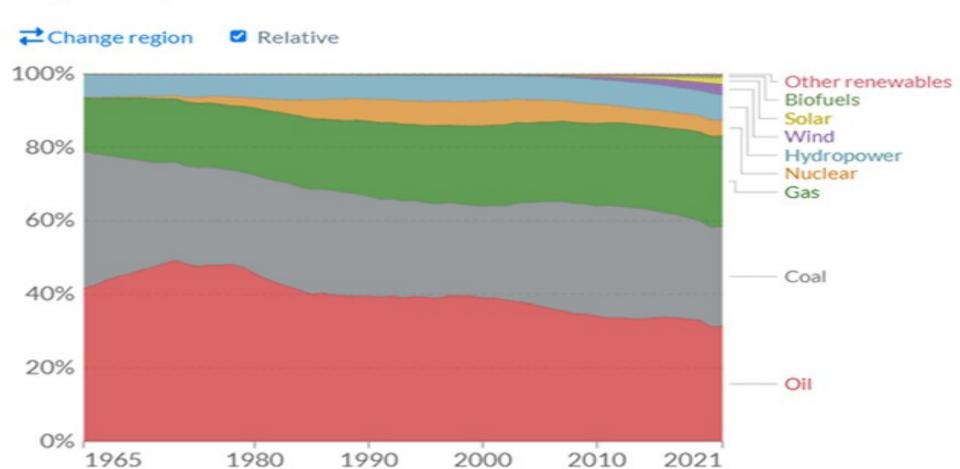
Note: Sum of components may not equal 100% because of independent rounding.



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.



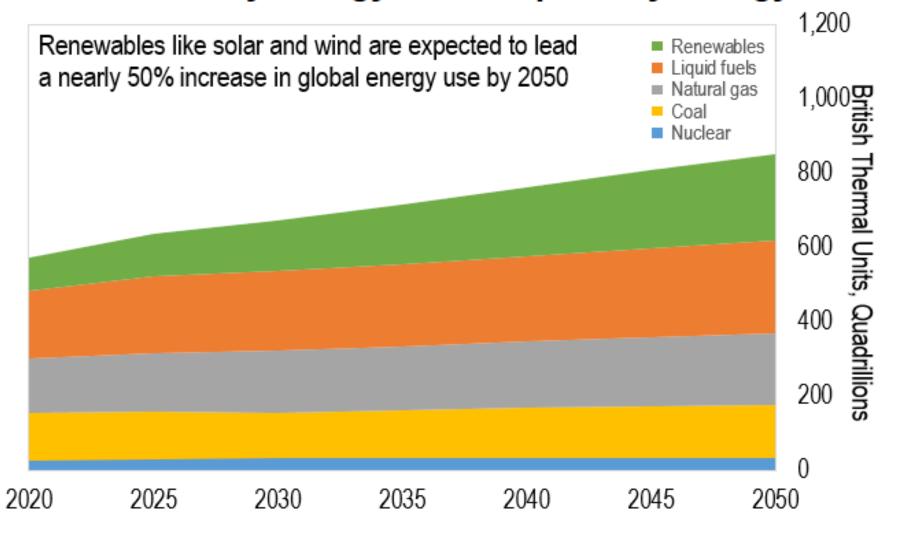
Source: BP Statistical Review of World Energy

OurWorldInData.org/energy • CC BY

Note: 'Other renewables' includes geothermal, biomass and waste energy.

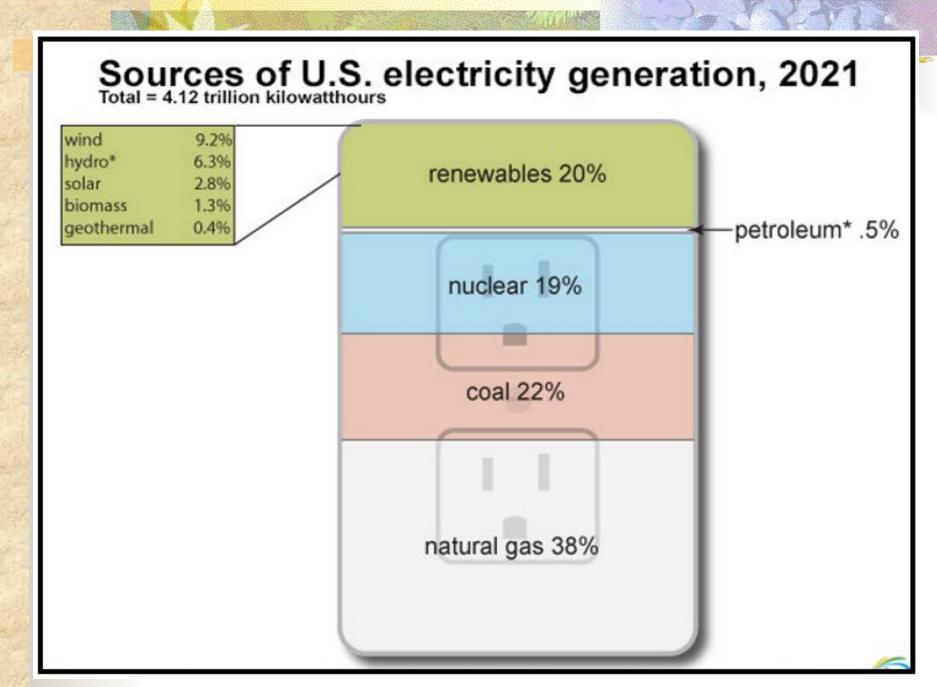


Global Primary Energy Consumption by Energy Source



TROGUE ECONOMICS

Source: EIA

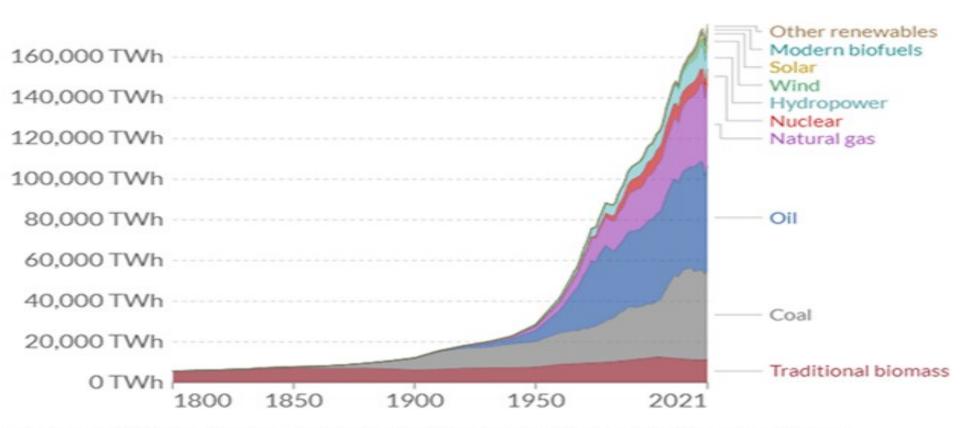


Global primary energy consumption by source



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.

Relative

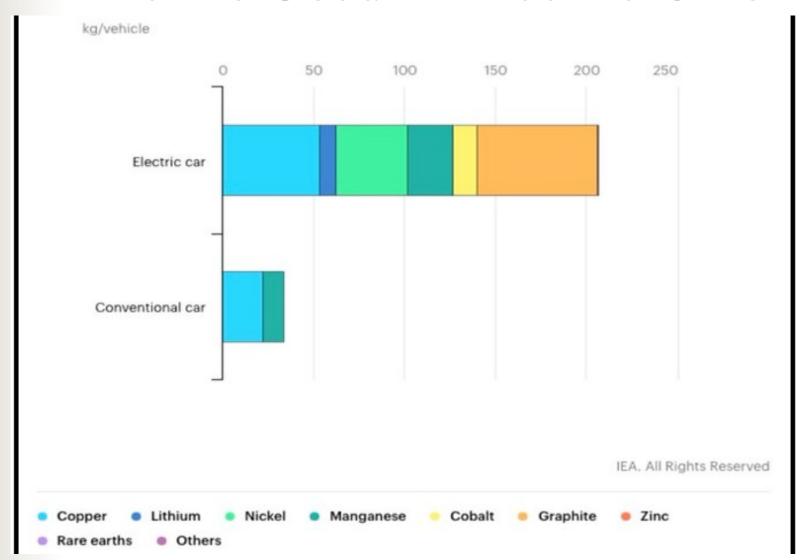


Source: Our World in Data based on Vaclav Smil (2017) and BP Statistical Review of World Energy Our World In Data.org/energy • CC BY



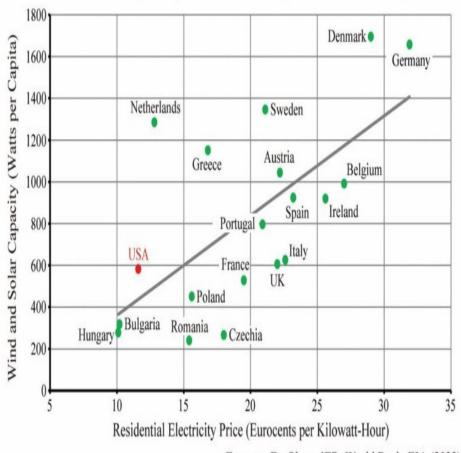


Minerals Used in Electric Cars



Energy prices on the rise

Wind and Solar Capacity and Electricity Prices in Europe, 2021



Eurostat, EurObserv'ER, World Bank, EIA (2022)

Electricity Price Rise in Leading US States for Wind Usage 2008-2022

