"The Sky is Falling!"

- Chicken Little

Dr. Richard Siegmund Lindzen

Not mentioned in the letter is the fact that current carbon dioxide levels, around 400 parts per million are still very small compared to the averages over geological history, when thousands of parts per million prevailed, and when life flourished on land and in the oceans.

Twenty five years after the establishment of the United Nations Framework Convention on Climate Change (UNFCCC), set up to validate the case for dangers from increasing carbon dioxide, the risks referred to in the departmental statement remain, hypothetical, model-based projections. By contrast, the benefits of increasing CO2 and modest warming are clearer than ever, and supported by dramatic satellite images of a greening Earth.

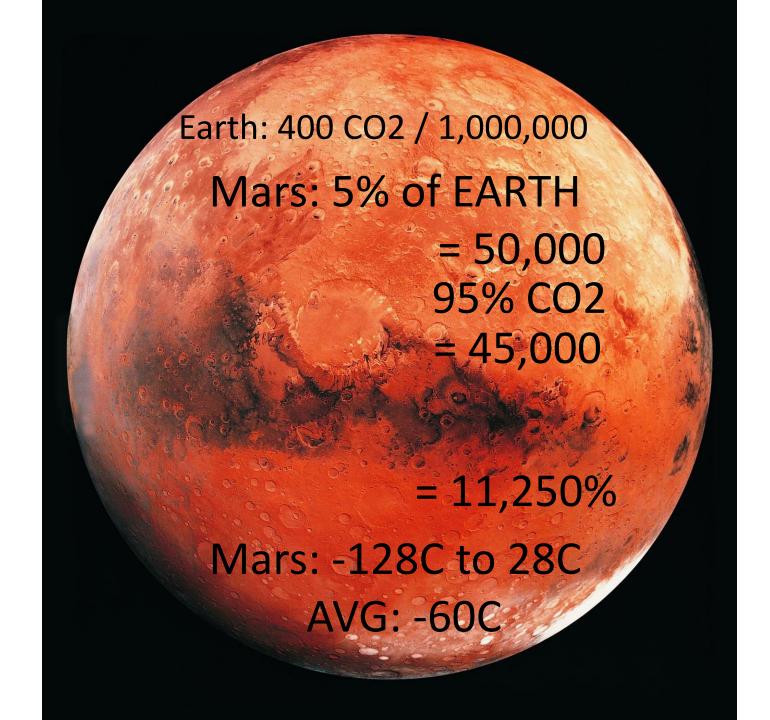
We note that:

- The UN's Intergovernmental Panel on Climate Change (IPCC) no longer claims greater likelihood of significant as opposed to negligible warming,
- That it has long been acknowledged by the IPCC that climate change prior to the 1960's could not be due to anthropogenic greenhouse gases,
- That model projections of warming during this period have greatly exceeded what has been observed,
- That the modelling community has openly acknowledged that the ability of existing models to simulate past climates is due to numerous arbitrary tuning adjustments,
- That observations show no statistically valid trends in flooding or drought, and no meaningful
 acceleration of very long term sea level rise (about 6 inches per century),

Therefore, calls to limit carbon dioxide emissions are more premature today than 25 years ago.

Statement to the U.S. Senate Environment and Public Works Committee by **William Happer**, Cyrus Fogg Brackett Professor of Physics Princeton University, made on February 25, 2009.

- I have spent my professional life studying the interactions of visible and infrared radiation with gases one of the main physical phenomena behind the greenhouse effect.
- I believe that the increase of CO2 is not a cause for alarm and will be good for mankind.
- Drastic limitations on CO2 are likely to damage our country
- what about the frightening consequences of increasing levels of CO2 that we keep hearing about? In a word, they are wildly exaggerated,
- at least 90% of greenhouse warming is due to water vapor and clouds. Carbon dioxide is a bit player. There is little argument in the scientific community that a direct effect of doubling the CO2 concentration will be a small increase of the earth's temperature on the order of one degree. Additional increments of CO2 will cause relatively less direct warming because we already have so much CO2 in the atmosphere that it has blocked most of the infrared radiation that it can.
- the current warming period began about 1800 at the end of the little ice age, long before there was an appreciable increase of CO2.
- The existence of climate variability in the past has long been an embarrassment to those who claim that all climate change is due to man and that man can control it.



SUN: 3.8 x 10²⁶ watts

MARS: 1.5 AU

EARTH: 1 AU

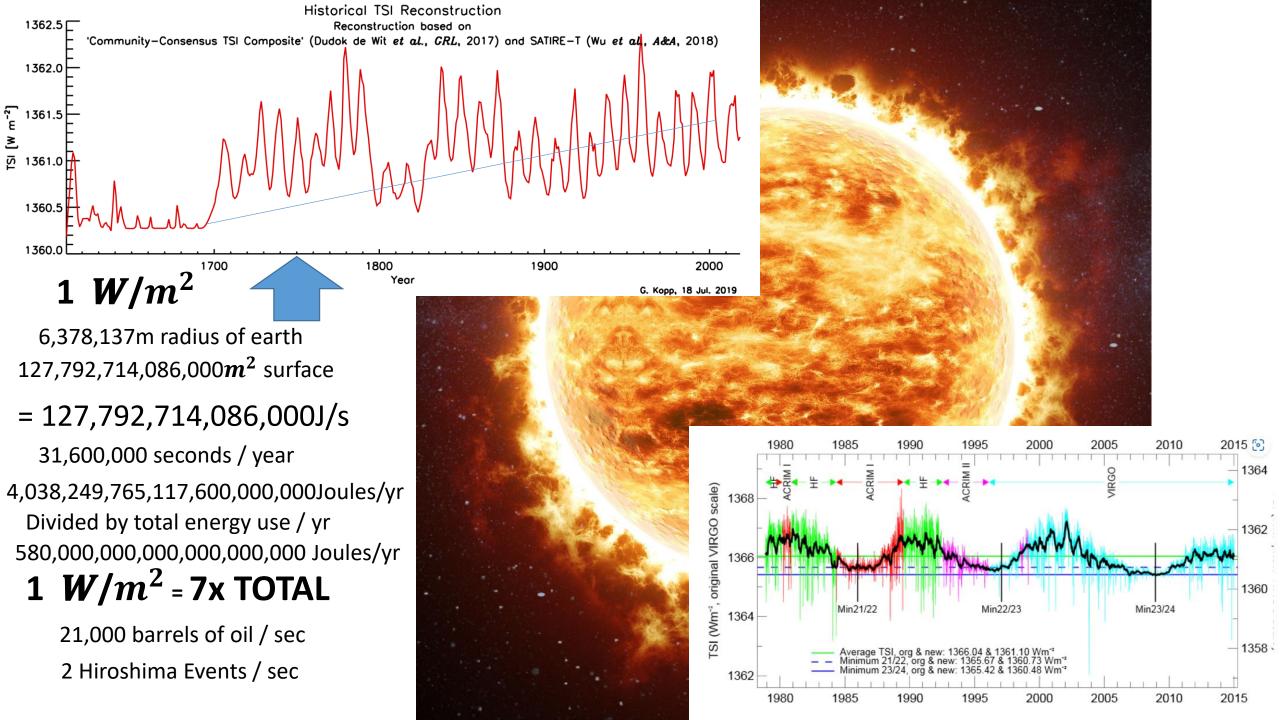
MERCURY: 0.3 AU

600 watts/m²

1,396 watts/m²

8,445 watts/m²





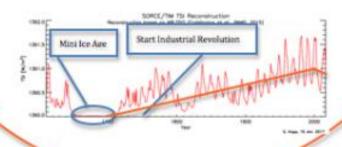
5,468,158 x 10¹⁸ Joule/yr incoming from sun. ((1W/m²)(1361)) = (4018 x 10¹⁰ J/yr)(1361) 3,827,710 x 10¹⁸ Joule/yr if 30% reflected

Solar Variability: +/-3% = 114,831 x 1018 Joule/yr

Geothermal: 804 x 1018 Joule/yr radiates out from core

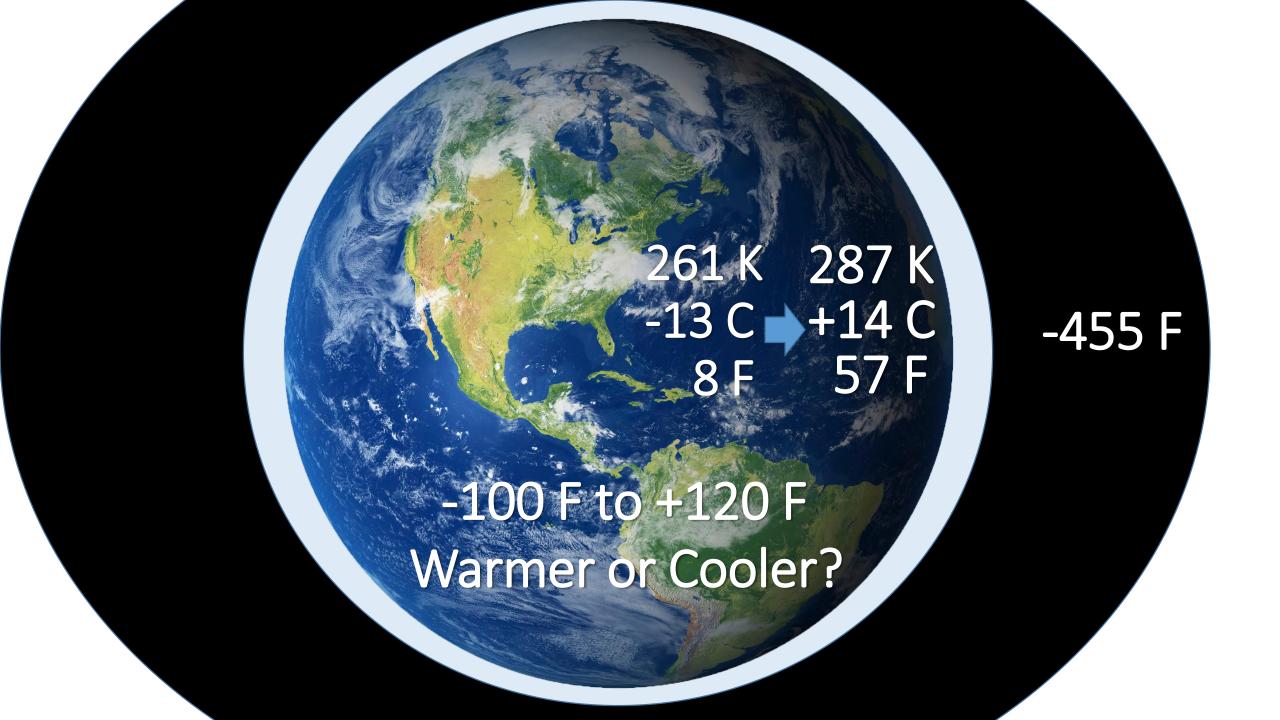
Global Fossil Fuels: 400 x 1018 Joule/yr

1W/m² Increase since 1700: 4018 x 10¹⁸ J/yr (One Hiroshima energy event every ½second)

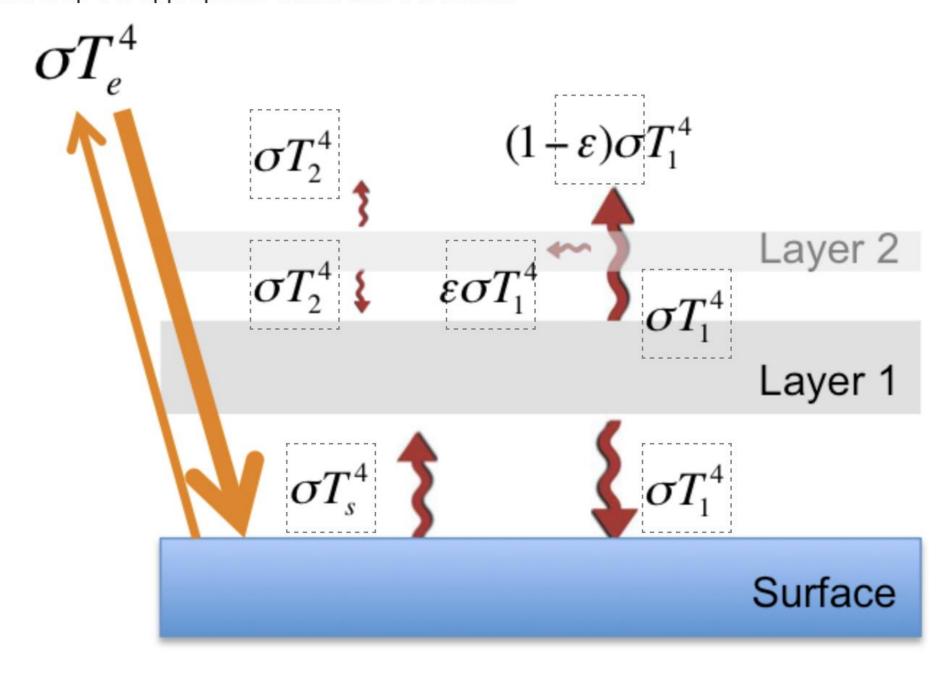


5,468,158 x 1018 Joule/yr incoming (pre-30% reflection)

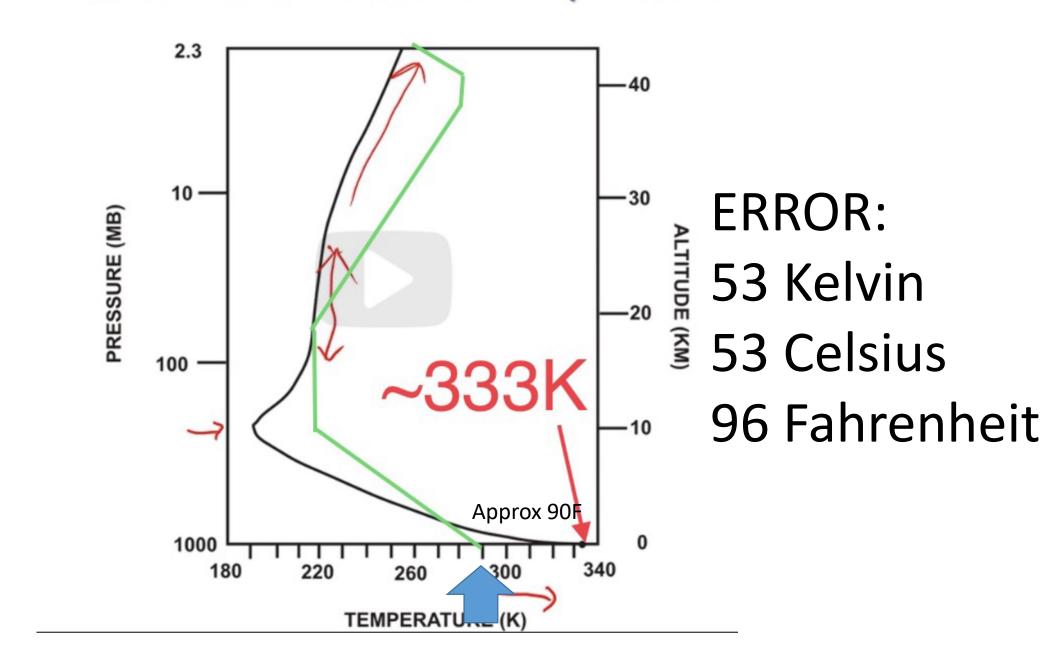
-414 to 253 degrees Fahrenheit -248 to 123 degrees Celsius 25 to 396 degrees Kelvin



Drag and drop the appropriate values into the boxes.



Full calculation of radiative equilibrium





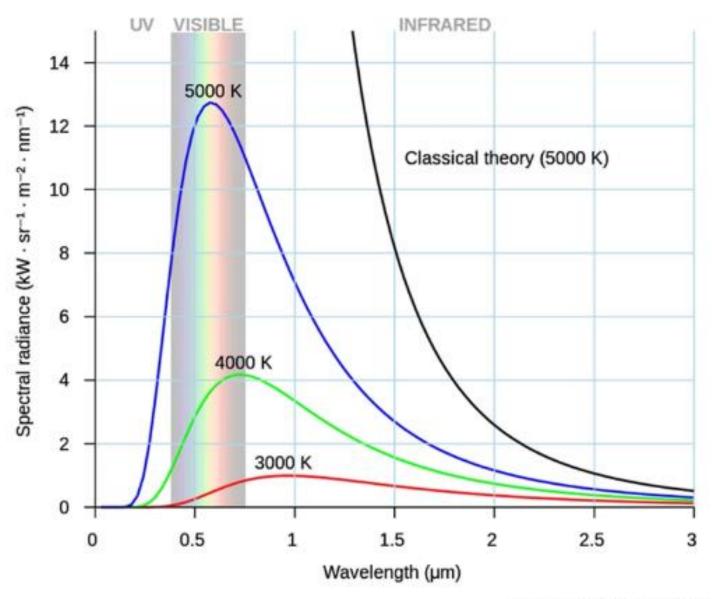
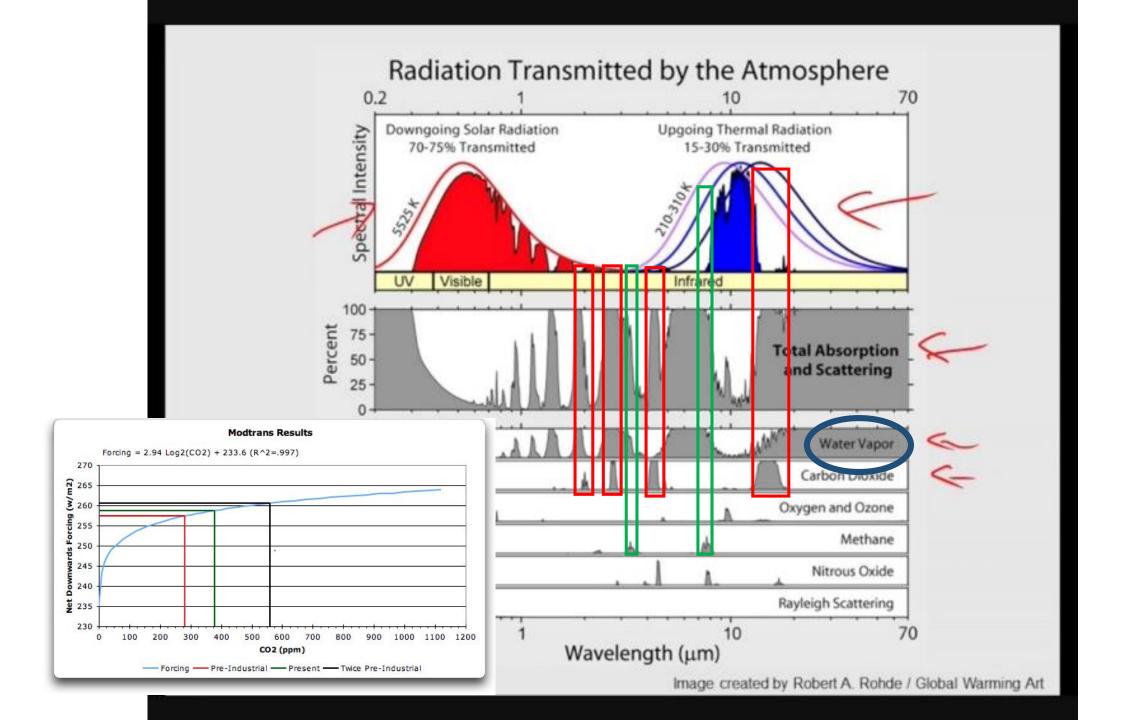


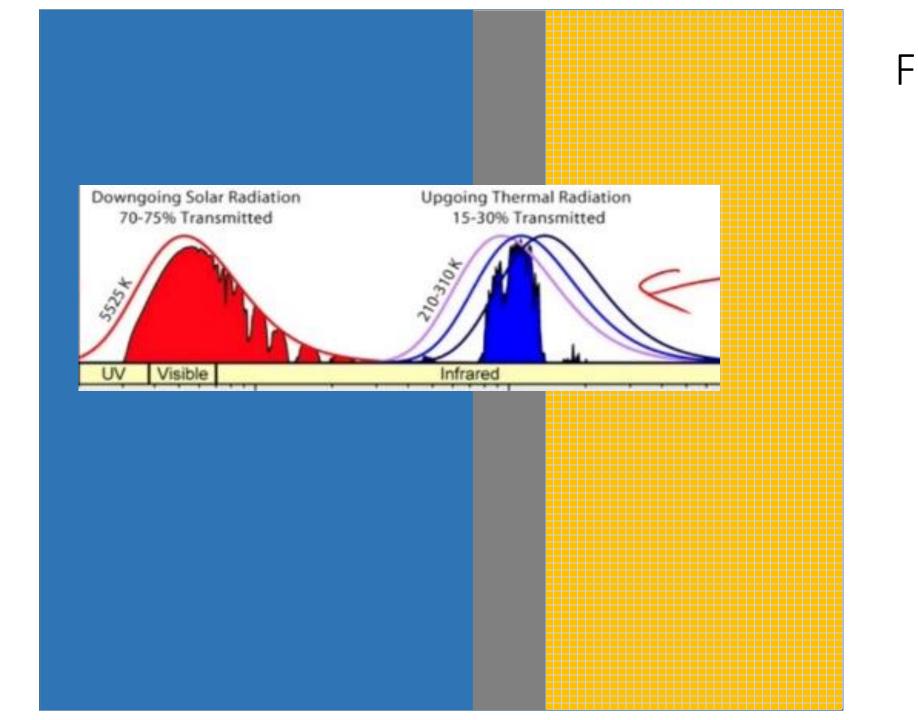
Image credit: Darth Kule



The energy IN the atmosphere is the energy moving **THROUGH** the atmosphere

MIT estimates
that Infrared
Radiation
removes about
66 W/m2
while evaporation
removes
78 W/m2

On a scale of 100%:
IR removes 46%
and
evaporation 54%



From the Spectral absorption, approximately 20% of IR passes cleanly through the atmospheric window

absorption,
over 90% of the
remaining IR
is absorbed by
water vapor

10% of the remaining IR is absorbed by Carbon Dioxide

THEORY 1:

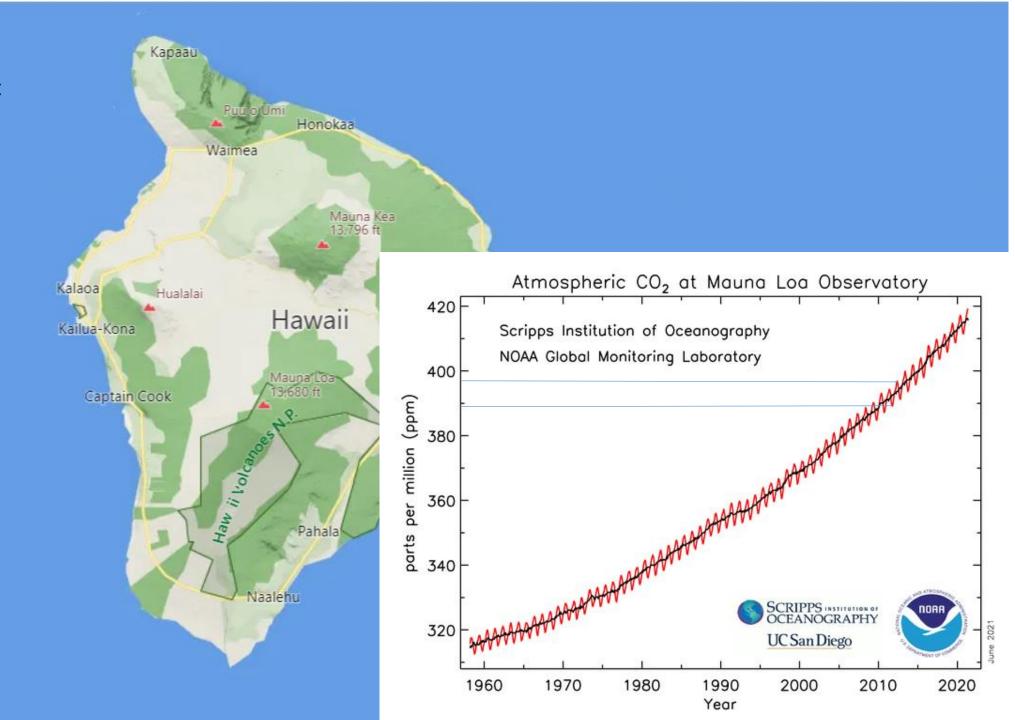
120 ppm of 400 Is Anthropogenic (30%)

US Contribution Is 15%

15% of 30% of 10% of 46% = 0.002 =

0.2%

carbon dioxide measured at Loa Atmospheric Baseline eaked for 2021 in May at a ge of 419 parts per million nest level since accurate began 63 years ago,"



THEORY 2:

Annual
Anthropogenic
Contribution:
1% (4ppm)

US Contribution Is 15%

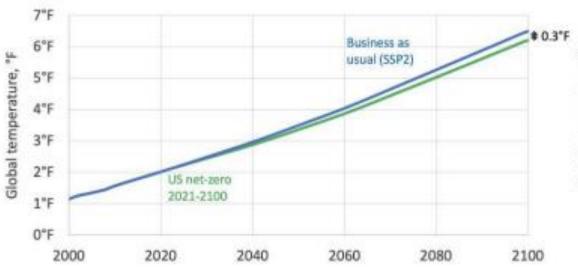
15% of 1% of10% of 46% = 0.000069 =

0.007%

Bjorn Lomborg on <u>Twitter</u>: "Even if entire US went net-zero today and stayed net-zero for the rest of the century impact rather small, reducing temperature rise in 2100 by 0.3°F (0.16°C) Because vast part of 21st century emissions come currently poor world Using UN climate model MAGICC (<u>magicc.org</u>)"

If US goes net-zero today

and stays net-zero for the rest of the century UN Climate Model: temperature reduced by 0.3°F

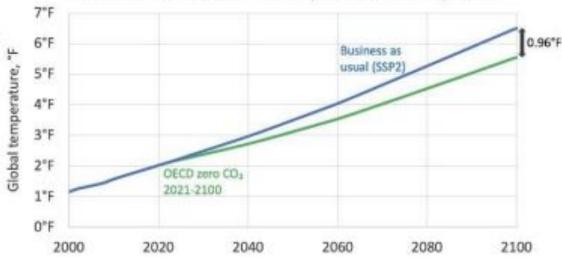


Model is MAGCC, http://live.magicc.org/, used by UN Climate Panel for all of their reports. Baseline SSF2, the UN's middle-of-theroad scenario, https://tricot.fissa.ac.at/SupDb, and deducting total 2019 US emissions of 5,769 million metric total COye every year from 2021-2100, https://www.epa.gov/gAgemissions/inventory us-greenhouse-gas-emissions and sinks, EIA estimate energy GIrG emissions to be about unchanged until 2050 with no policy, https://www.eia.gov/invergreepisinad/energy-and-theenvironment/subloss-for-lature-emissions.php, heliter.com/bjornlomburg

If rich world net-zero today

If the entire rich world goes net-zero today and stays net-zero for rest of the century – USA, EU, UK, Canada, Australia, Japan, New Zealand, Turkey etc.

- standard UN Climate Model: temperature reduced by 0.96°F



Alludat is MAGCC, http://live magics.org/, used by UN Climate Panel for all of their reports. Based on 55P2, the UN's middle-of-the road sentence, with and without rich world enteriors, https://iniciat.tissa.ac.as/lapDb; rich world is CECDBD plus EU and cardidates. Advanta, Australia, Australia, Australia, Balgium, Buents und Henneyovins, Bulgaria, Creatia, Crystia, Cyprus, Coch Republic, Denmunk, Estonia, Finland, France, Germany, Greece, Guam, Mungary, Instand, Holand, Raly, Japan, Lithia, UNicotia, Lumembarry, Matta, Montenigna, Netherlands, New Zeoland, Network, Portand, Partupol, Puerto Rose, Romania, Sertia, Slovakia, Slovenia, Spein, Swiden, Switzerland, Marth Macedomia, Turkiey, UN and USA, twitter confidences

7000ppm: crazy Pre-Historic Jungles

Greenhouse Optimum: 1000-1500ppm

Little Ice Age & Pre-Ind'l Rev: 280ppm

400ppm: 2018

500ppm: all hell breaks loose, unless UN takes complete, immediate control

Photosynthesis stops: 150-200ppm

Grow Season fluctuation: 3-9ppm

2010 Human Contribution: 4.3ppm (1%)

US contribution: 15%: 0.65ppm

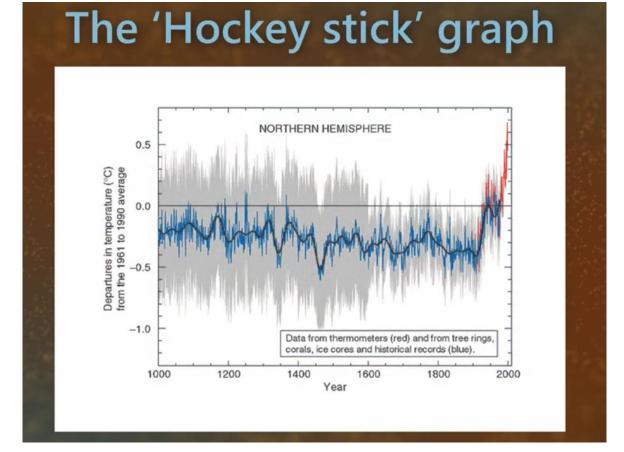
Geneva, 4 February 2010 – The IPCC is an intergovernmental body sponsored by UNEP and WMO. The main decision-making body is the "Panel" which meets at regular intervals in plenary sessions at the level of government representatives of all 194 IPCC member

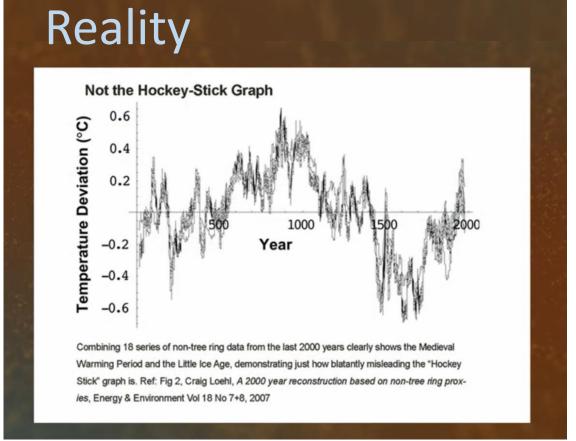
countries. Its role as defined in the "Principles Governing IPCC Work" is "to assess on a comprehensive, objective, open and transparent basis the scientific, technical and socio-economic information relevant to understanding the scientific basis of risk of human-induced climate change, its potential impacts and options for adaptation and mitigation. IPCC reports should be neutral with respect to policy, although they may need to deal objectively with scientific, technical



and socio-economic factors relevant to the

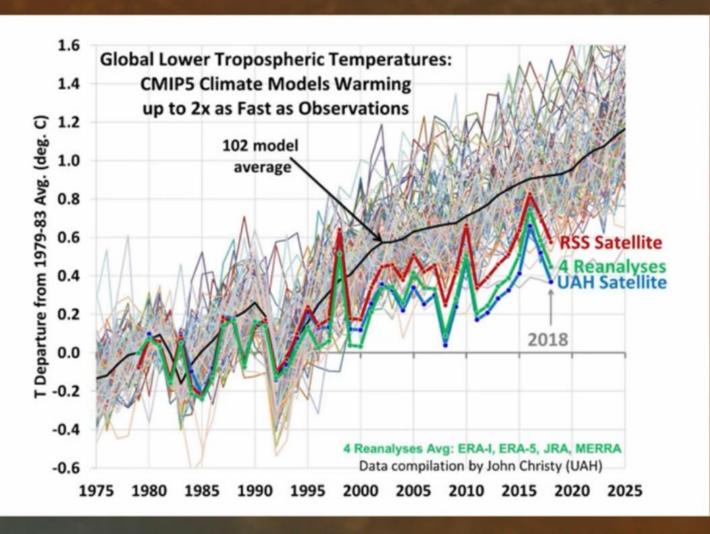






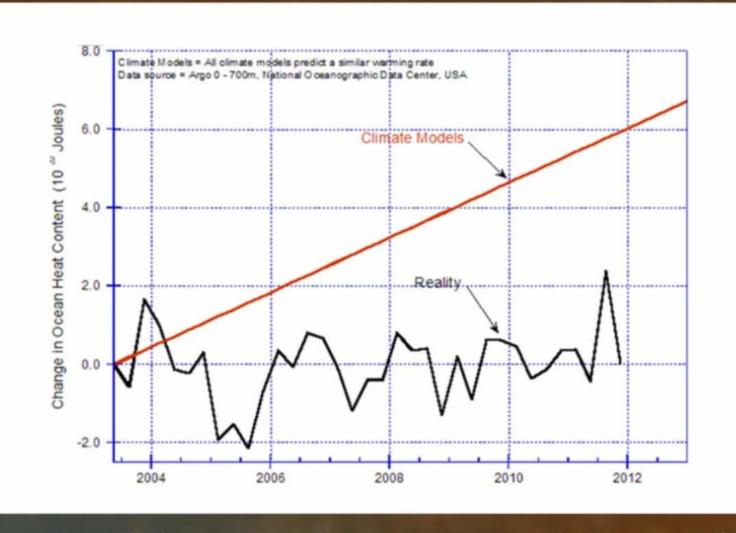
"When I was a schoolboy, my textbooks on earth science showed a prominent "medieval warm period" at the time the Vikings settled Greenland, followed by a vicious "little ice age" that drove them out. So I was very surprised when I first saw the celebrated "hockey stick curve," in the Third Assessment Report of the IPCC. I could hardly believe my eyes. Both the little ice age and the Medieval Warm Period were gone, and the newly revised temperature of the world since the year 1000 had suddenly become absolutely flat until the last hundred years when it shot up like the blade on a hockey stick. This was far from an obscure detail, and the hockey stick was trumpeted around the world as evidence that the end was near. We now know that the hockey stick has nothing to do with reality but was the result of incorrect handling of proxy temperature records and incorrect statistical analysis. There really was a little ice age and there really was a medieval warm period that was as warm or warmer than today." - William Happer, Cyrus Fogg Brackett Professor of Physics Princeton University

IPCC models versus satellite temperatures

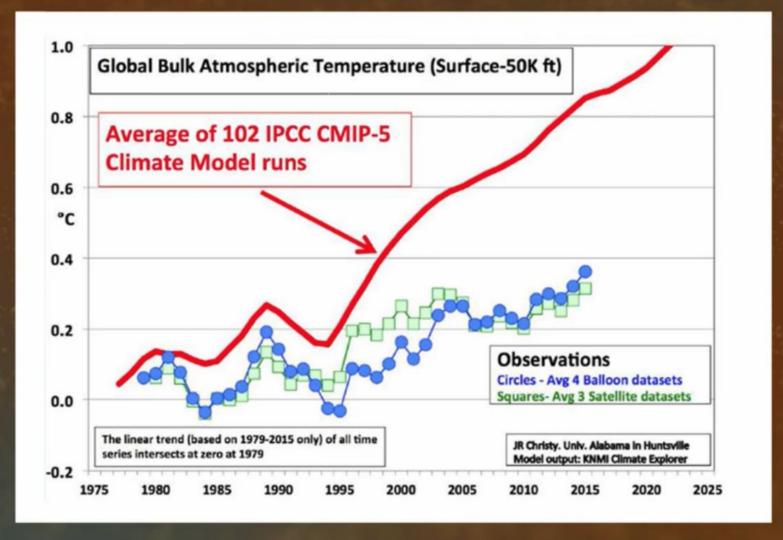




IPCC models versus ocean temperatures



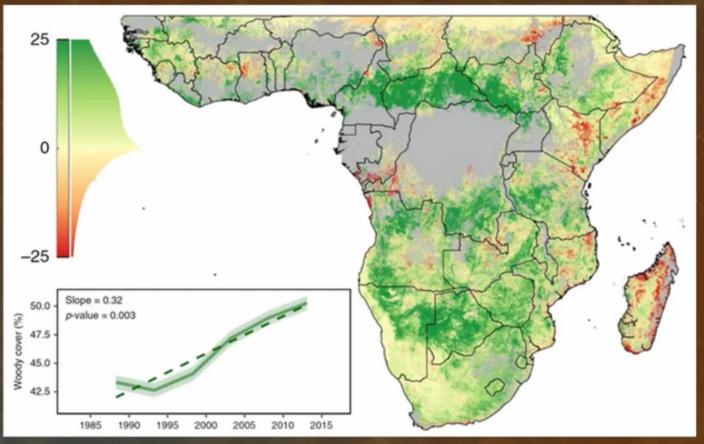
IPCC models versus tropical temperatures



Source: Lewis, M., Satellites and global warming: Dr Christy sets the record straight, 5 Feb. 2016; globalwarming.org (from Dr John Christy's testimony to the USA House Science Committee hearing on the Paris climate treaty).

CO₂ is plant food!

The Sahara is greening

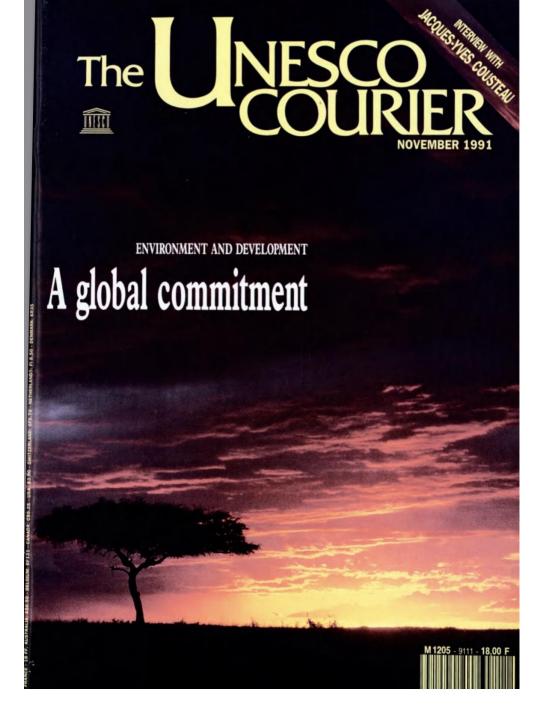


Change in woody plant cover over sub-Saharan Africa based on satellite observations of 30 years of fractional woody plant cover (1986-2016). The histograms an color scale indicate data distributions. The insert indicates the percent change in wood cover for the entire region by year, revealing an approximate eight percent over the length of the study. Grey areas were masked from the analysis and represent urban surfaces, wetland, cropland, and forest (areas >40% cover by trees > Venter, Z.S., Cramer, M.D. and Hawkins, H.-J. 2018. *Drivers of woody plant encroachment over Africa*, Nature Communications 9: 2272, DOI: 10.1038/s41467-018-0



- As of 2021, every year some ~809 gigatonnes of carbon dioxide are emitted; in other words, 809 billion metric tons of CO2 are produced every year (according to the "global Carbon Budget 2021" produced by Earth Systems Science Data [the standard global authority of CO2 levels]).
- Do you know how much of that total came from fossil fuels? Thirty-four (34) gigatonnes that represents just 4.3% of the total.
- Where did the other 95% come from? Carbon dioxide is a naturally occurring molecule that is both consumed and produced in the course of microbial photosynthesis and respiration.
- Since 1880 global temperature has increased a little over 1° C; that's 1° in 140 years.
- By comparison, research done by Scott Lehman (of UC Boulder) revealed a series of abrupt climate changes from ~15,000 to 8,000 aBP that resulted in sea surface warming of more than 5° C (9° F) in fewer than 40 years – that's roughly 15 times the rate of modern warming.
- Nevertheless, over the past 170 years atmospheric concentrations of CO2 have steadily increased.
- Yet from 1850 until now, for about 70 of these years (1910-1945; 1975-2000; 2010-2020), temperatures were trending up.
- But for another 100 or so years, temperatures were stable or decreasing (~1850-1910; 1945-1975; 2000-2010).
- 9. If the climatically toxic carbon dioxide were as potent in creating global warming as some believe, shouldn't we expect far, far fewer years in which temperatures were stable or going down? In fact, carbon dioxide is not the prime source of global warming, and should not be regarded as a toxic pollutant.

- Unknown costs of going to net-Zero. Trillions of dollars.
- Our "climate goals" are "CO2 goals" with no impact on climate
- (eg) \$100 (eventually) to sequester 1 ton of CO2
 - 1Gigaton = \$100,000,000,000 straight into a hole the ground
 - 1 Gigaton out of over 3000 Gigatons in the atmosphere.



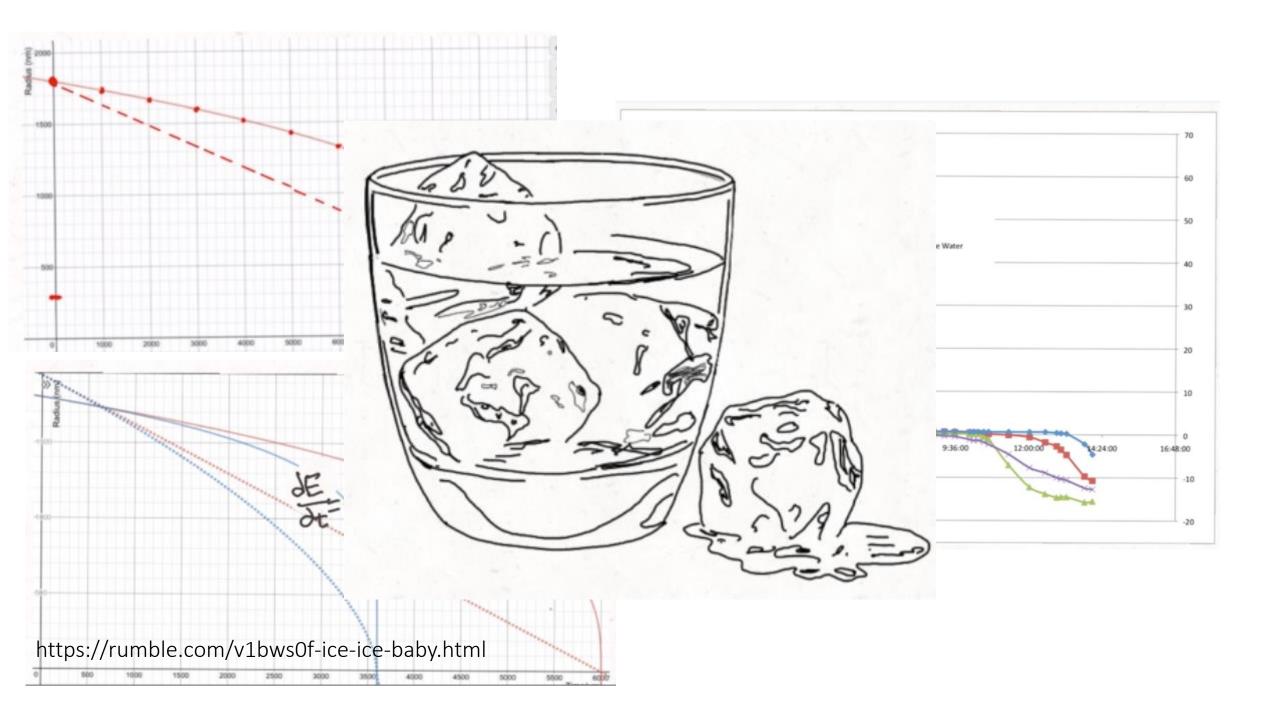
Some snakes, mosquitoes and other animal species pose threats or dangers for humankind. Can they be eliminated like the viruses that cause certain diseases?

- Getting rid of viruses is an admirable idea, but it raises enormous problems. In the first 1,400 years of the Christian era, population numbers were virtually stationary. Through epidemics, nature compensated for excess births by excess deaths.

I talked about this problem with the director of the Egyptian Academy of Sciences. He told me that scientists were appalled to think that by the year 2080 the population of Egypt might reach 250 million.

What should we do to eliminate suffering and disease? It's a wonderful idea but perhaps not altogether a beneficial one in the long run. If we try to implement it we may jeopardize the future of our species.

It's terrible to have to say this. World population must be stabilized and to do that we must eliminate 350,000 people per day. This is so horrible to contemplate that we shouldn't even say it. But the general situation in which we are involved is lamentable.



"The Emperor Has No Clothes!"

History Has Repeated Itself

