

CONFESSIONS OF A GREENPEACE DROPOUT

THE MAKING OF
A SENSIBLE ENVIRONMENTALIST

PATRICK MOORE

REVISED EDITION 2013

San Diego, California

April 28, 2016

**Agriculture, Climate Change
and Human Health**

**Patrick Moore, PhD
-The Sensible Environmentalist -**

Allow Golden Rice Now!



Winter Harbour, Vancouver Island, 1952

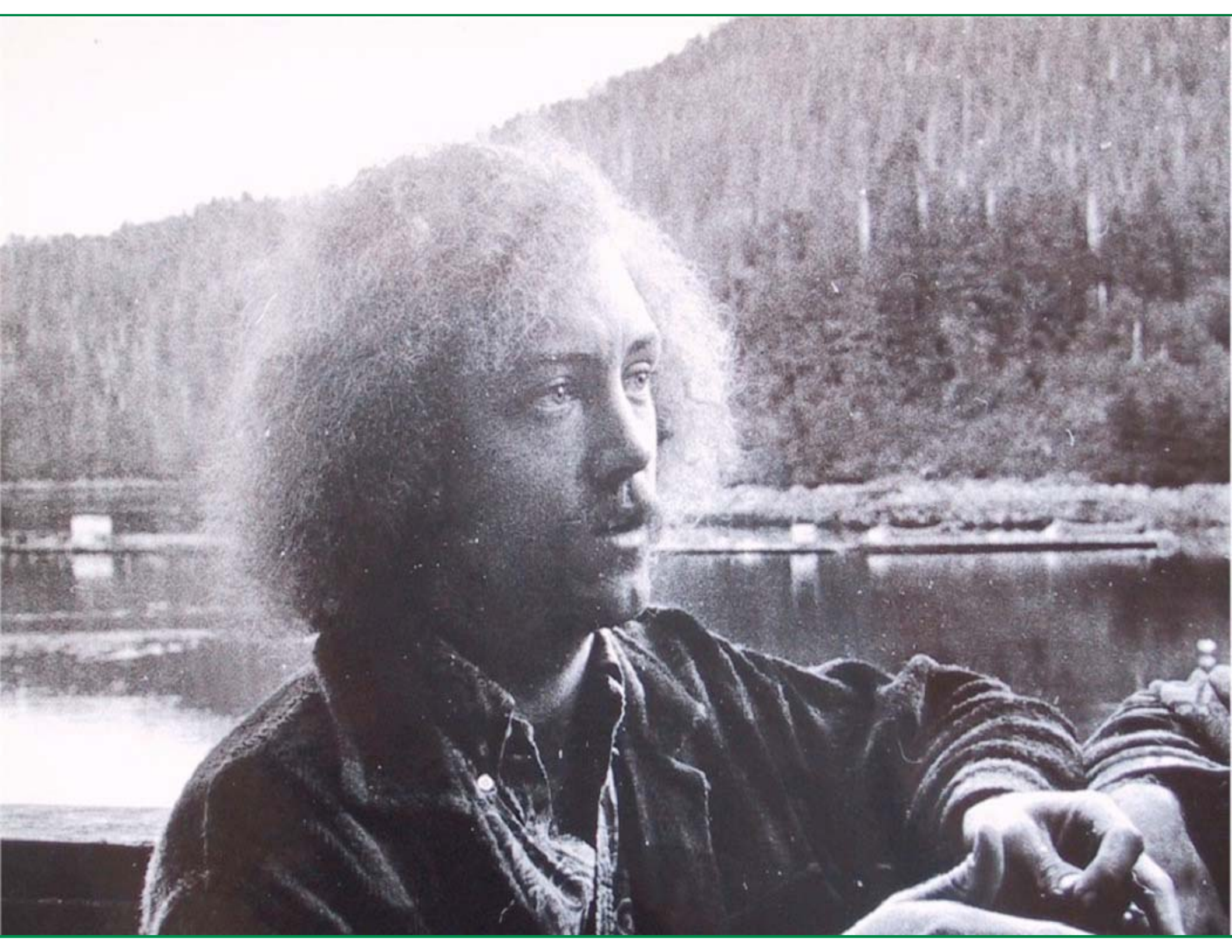


My Home →

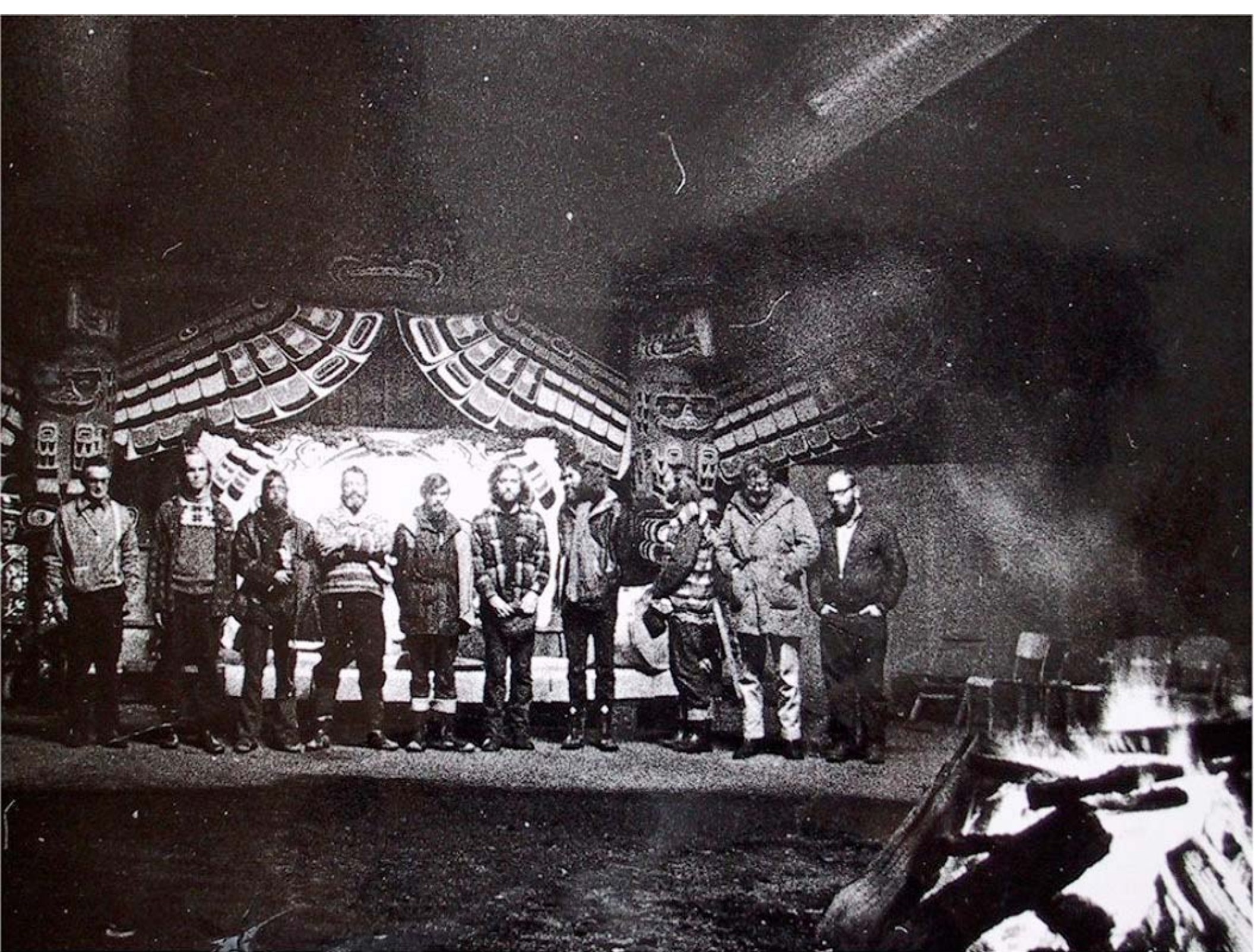




































Why I Left Greenpeace After 15 Years



Greenpeace lost its humanitarian perspective and drifted into a belief that humans are the enemies of the earth.

1985

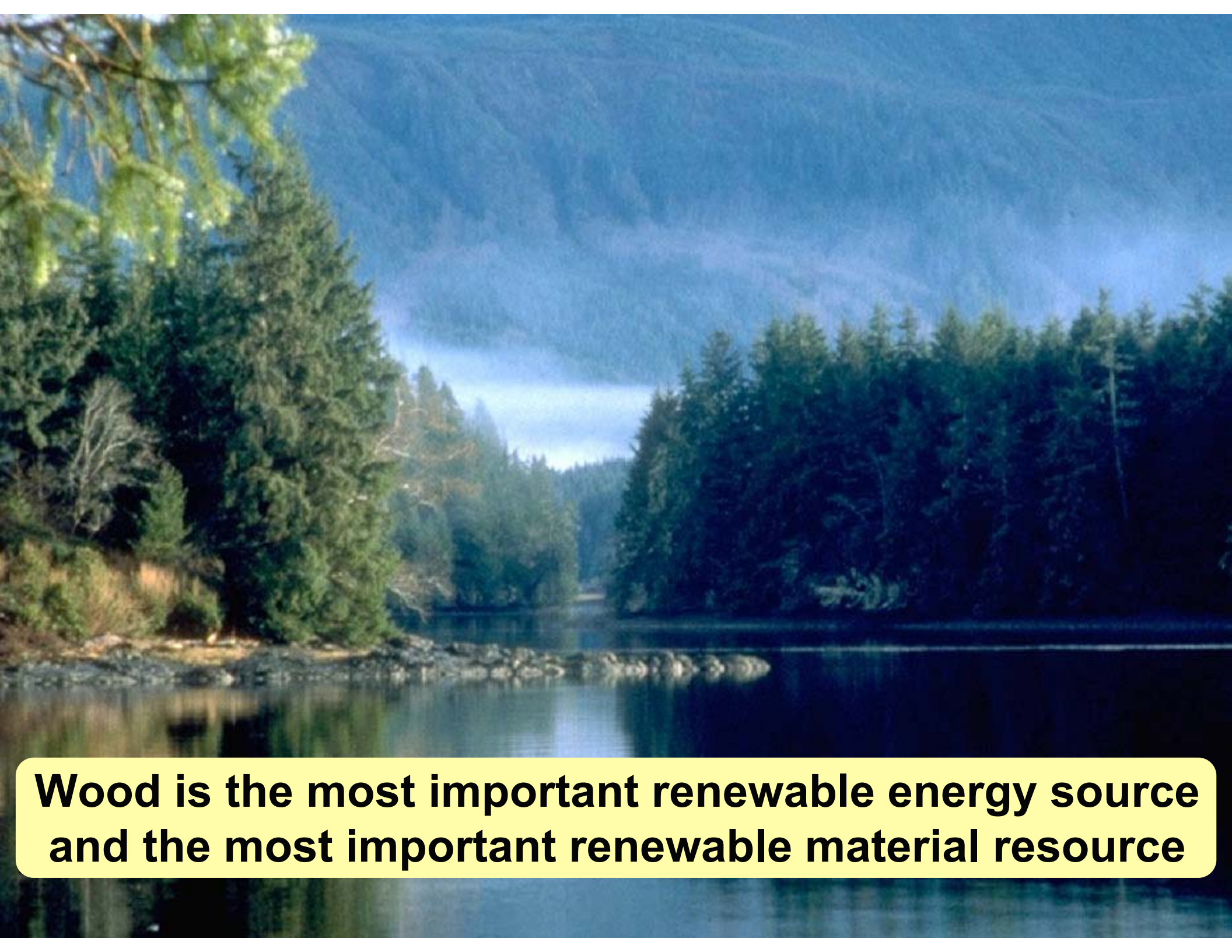
**Greenpeace Says Chlorine is
“The Devil’s Element”
Calls for Global Chlorine Ban**

**The addition of chlorine to drinking water
is the single biggest advance
in the history public health.**

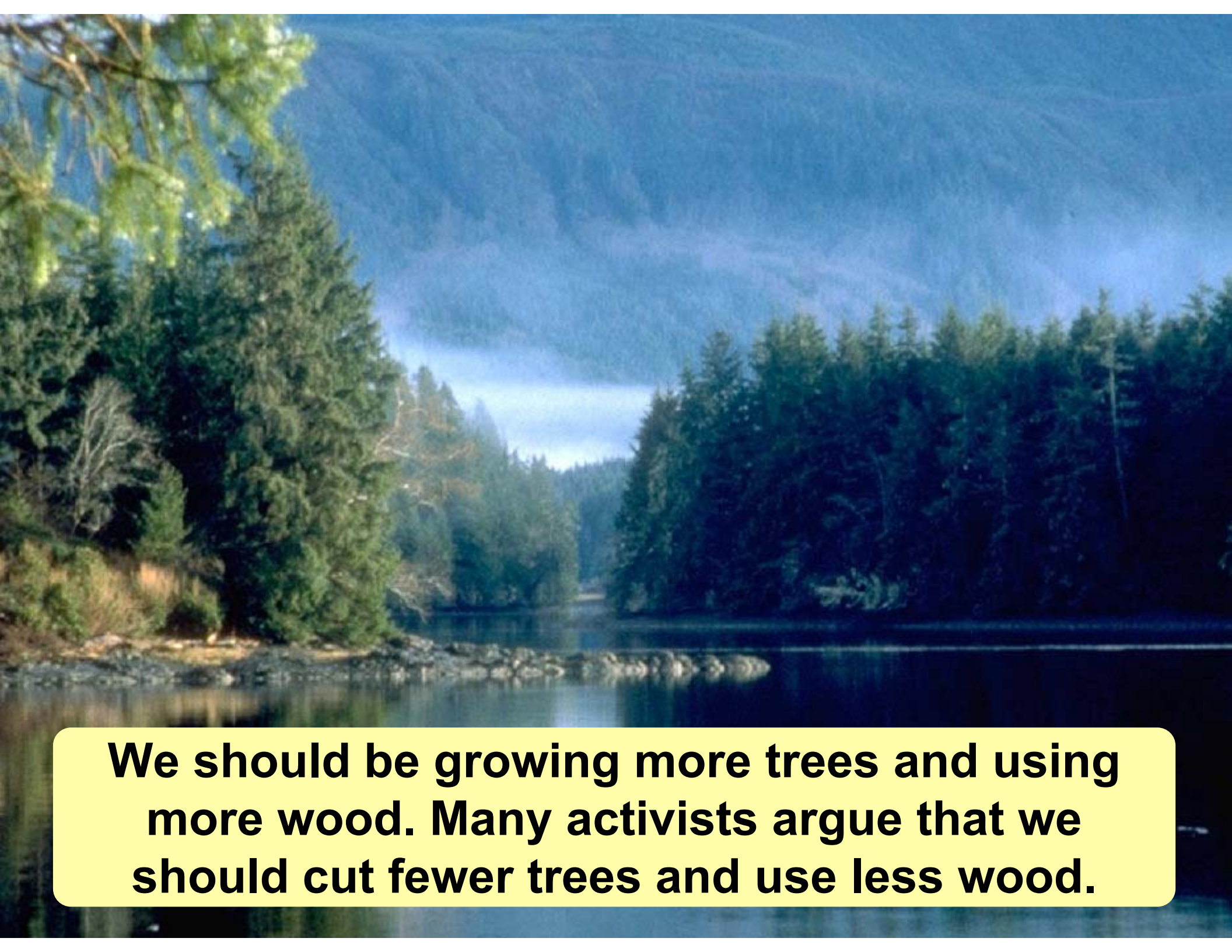
**75% of our medicines are based on
chlorine chemistry**

**Greenpeace began to adopt positions that I did not agree
with from a scientific perspective. The Ban Chlorine
Worldwide campaign gave me no choice but to leave.**






Wood is the most important renewable energy source and the most important renewable material resource



We should be growing more trees and using more wood. Many activists argue that we should cut fewer trees and use less wood.

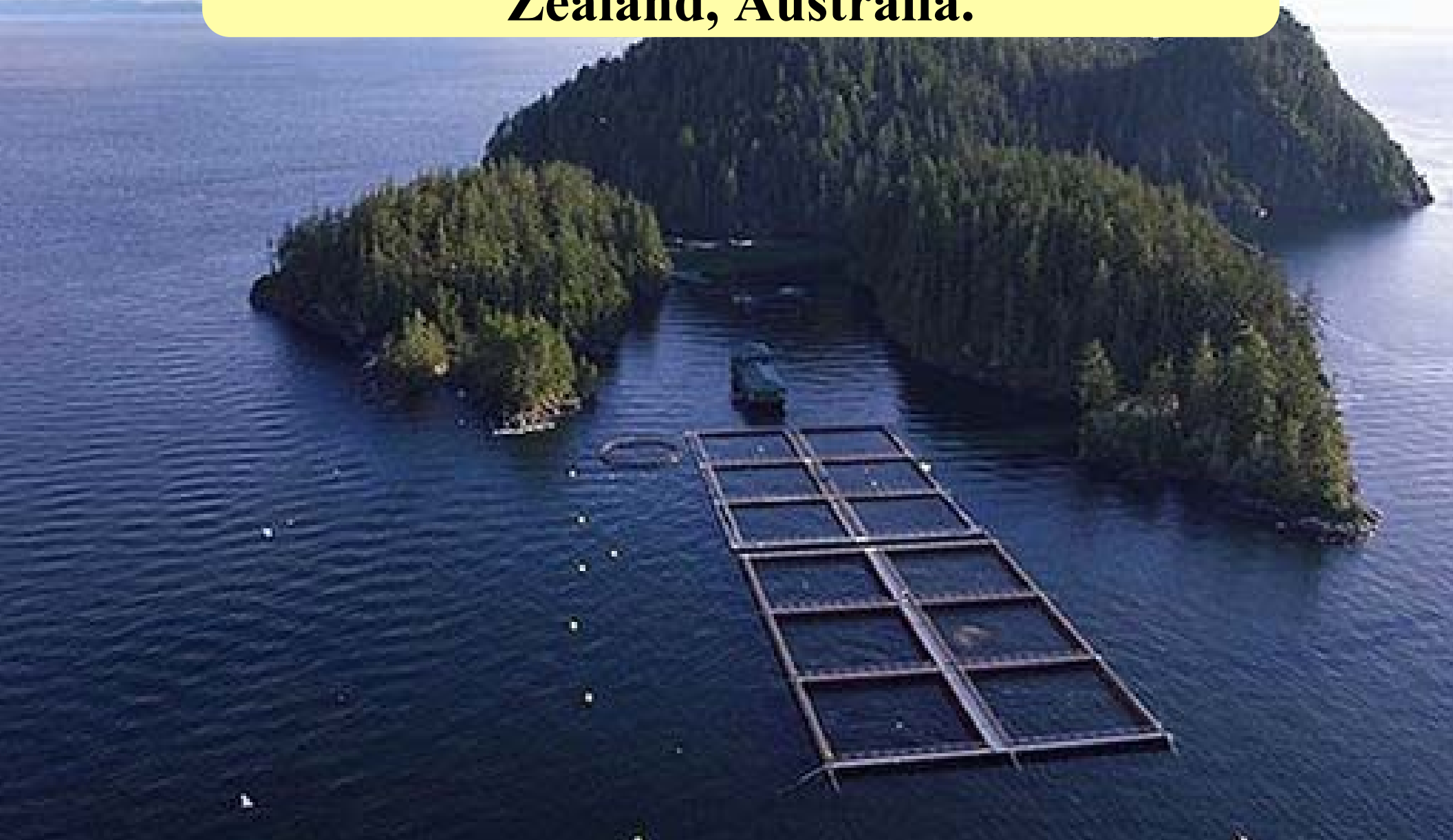
A photograph of a dense forest of tall, green evergreen trees, likely spruce or fir, growing closely together. The trees are covered in snow, suggesting a winter or high-altitude environment. The foliage is a vibrant green, and the branches are heavily laden with white snow. The perspective is looking slightly upwards into the canopy.

Trees grow in a factory called the forest, by renewable solar energy

Steel, concrete, and other non-renewable materials are made in real factories with huge inputs of energy, mainly fossil fuels.



Sustainable Salmon Aquaculture - British Columbia, Nova Scotia, Washington State, Maine, Norway, Chile, Scotland, New Zealand, Australia.





Seafood benefits outweigh potential risks: study

Updated Wed, Oct. 18 2006 11:33 AM ET

CTV.ca News Staff

The benefits of eating a few weekly helpings of most fish or seafood outweigh the potential health risks associated with ingesting mercury and other contaminants, finds a new study commissioned by the U.S. government.

Not only do eating fish and shellfish help protect against heart disease, claims the study, but women who do so during pregnancy or while nursing can promote healthy vision and brain development in their infants.

Nutritionists have long touted seafood as a great, low-fat source of protein, full of healthy omega-3 fatty acids. But at the same time, there have been troubling warnings of methyl mercury, dioxin and

 [View larger image](#)





Rainbow trout, farmed *

Oysters, eastern, wild **

Salmon, wild, Alaska ***

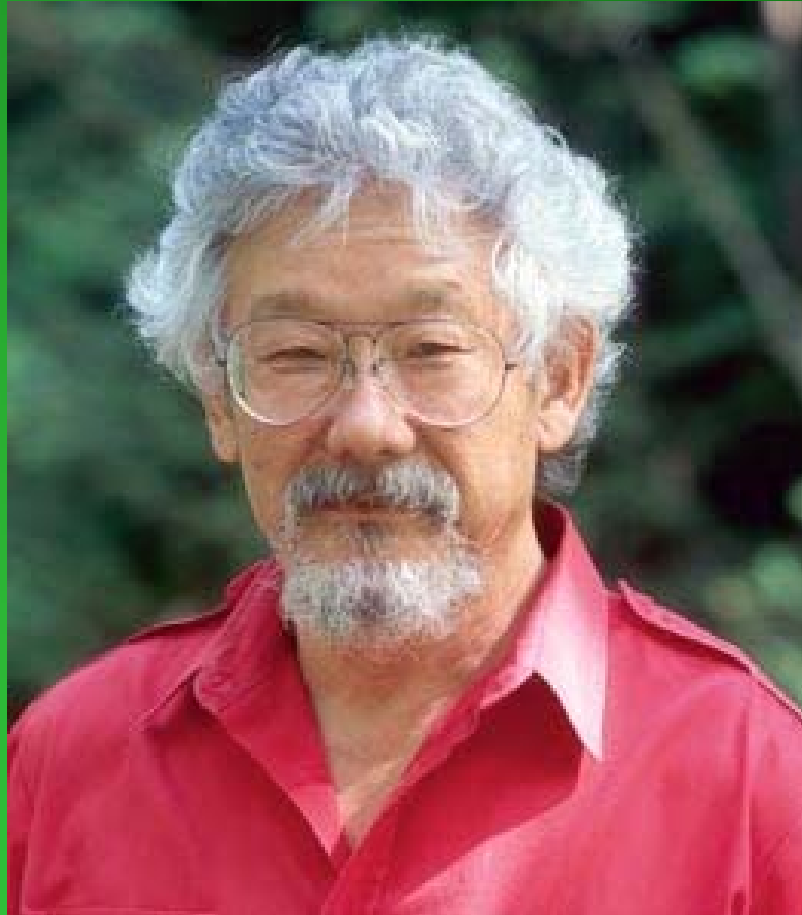


VIDEO

-  Canada AM: Leslie Beck on the benefits of fish 4:20
-  CTV Toronto: Dana Levenson on the fish debate 1:43
-  CTV Newsnet: Susan Krebs-Smith, Cancer Institute 6:03
-  CTV Newsnet: Consumers are given advice on fish 1:05

RELATED STORIES

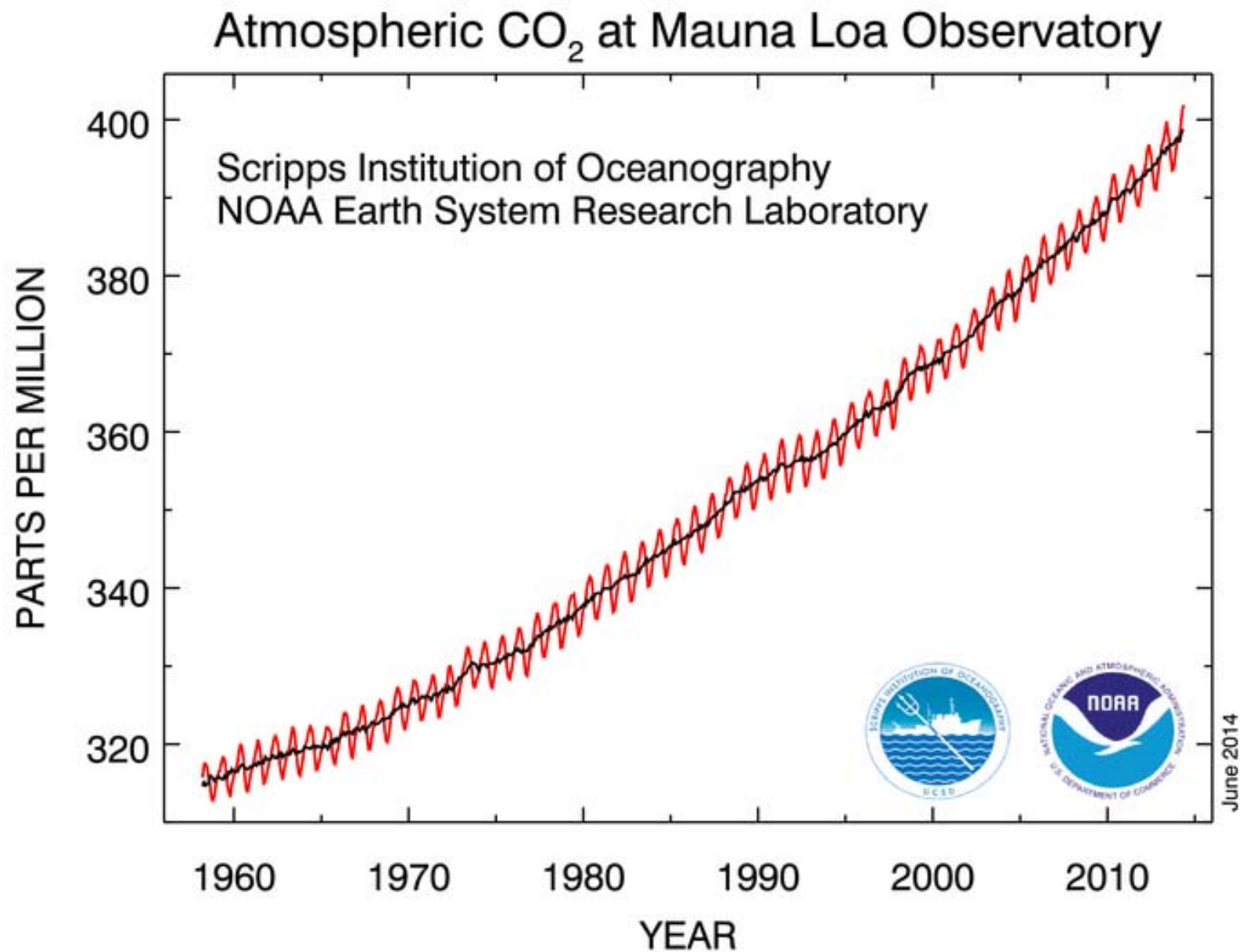
- Eels re-introduced in Ont. to rid invasive fish
- Ministers agree to slash toxic mercury emissions
- Federal Fisheries Act being gutted, NDP warns
- U.S. Coast Guard defends Great Lakes exercises



**“I would never feed a child farmed
salmon. It’s poison”**

David Suzuki

Toronto Star, September 15, 2004



CO₂ Levels in The Global Atmosphere



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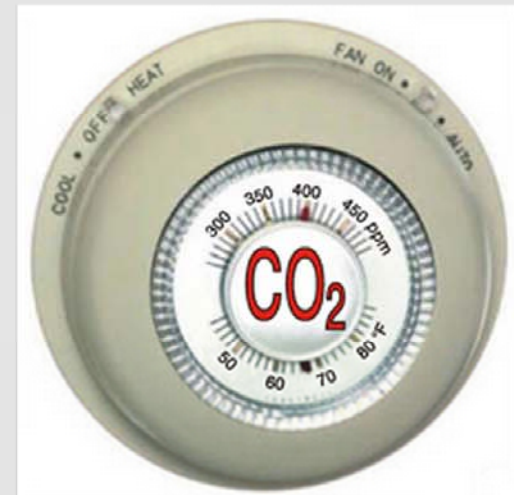
Carbon Dioxide Controls Earth's Temperature

10.14.10

Water vapor and clouds are the major contributors to Earth's greenhouse effect, but a new atmosphere-ocean climate modeling study shows that the planet's temperature ultimately depends on the atmospheric level of carbon dioxide.

The study, conducted by Andrew Lacis and colleagues at NASA's Goddard Institute for Space Studies (GISS) in New York, examined the nature of Earth's greenhouse effect and clarified the role that greenhouse gases and clouds play in absorbing outgoing infrared radiation. Notably, the team identified non-condensing greenhouse gases -- such as carbon dioxide, methane, nitrous oxide, ozone, and chlorofluorocarbons -- as providing the core support for the terrestrial greenhouse effect.

Without non-condensing greenhouse gases, water vapor and clouds would be unable to provide the feedback mechanisms that amplify the greenhouse effect.



[View larger](#)

A new atmosphere-ocean climate

**NASA : As if CO2 is the Only Factor Governing
Earth's Temperature
No Reputable Scientist Would Agree with This**

G7 leaders agree to phase out fossil fuel use by end of century

German chancellor Angela Merkel announces commitment to 'decarbonise global economy' and end extreme poverty and hunger





The IPCC mandate from the United Nations is restricted to human-caused impacts and does not consider the natural factors the influence the global climate

Article 1.2, as “a change of climate which is attributed directly or indirectly to human activity that alters the composition of the global atmosphere and which is in addition to natural climate variability observed over comparable time periods.”

Therefore the IPCC is inherently conflicted to find on the side of apocalypse. If they were to find that humans are not the main cause of climate change, or that it was not dangerous, there would be no need for it to exist.

GREENPEACE

Nature does not negotiate: climate catastrophe is with us now!



Rolling Stone

The Point of No Return: Climate Change Nightmares Are Already Here

There are Many Opinions About Climate Change

“There is no convincing scientific evidence that human release of carbon dioxide will, in the foreseeable future, cause catastrophic heating of the Earth's atmosphere and disruption of the Earth's climate.”

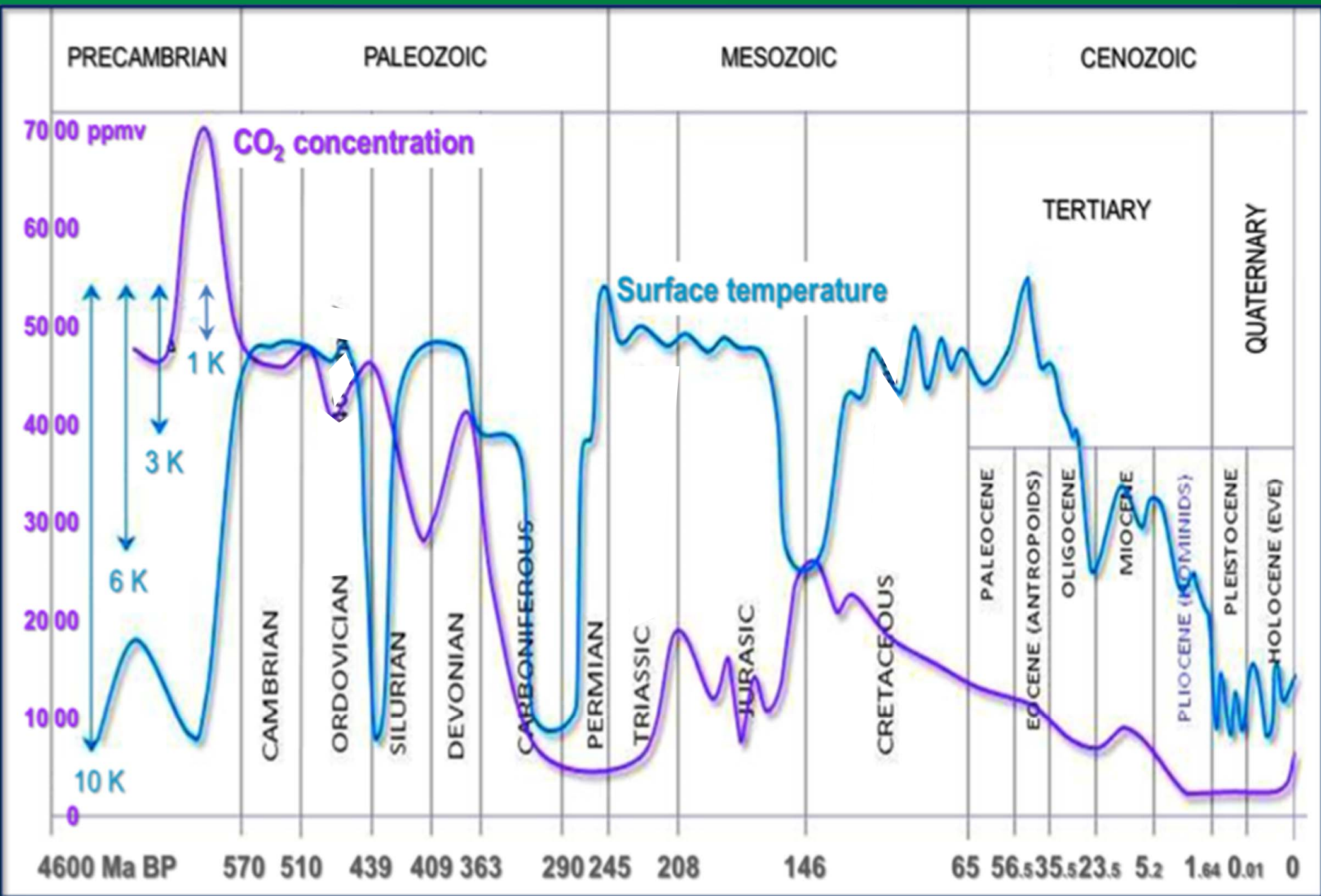
Global Warming Petition Project – Opposed to Kyoto and Paris
– Signed by 31,000 US Scientists and Professionals.

“It is *extremely likely* that human influence has been the *dominant* cause of the observed warming *since the mid-20th century*.”

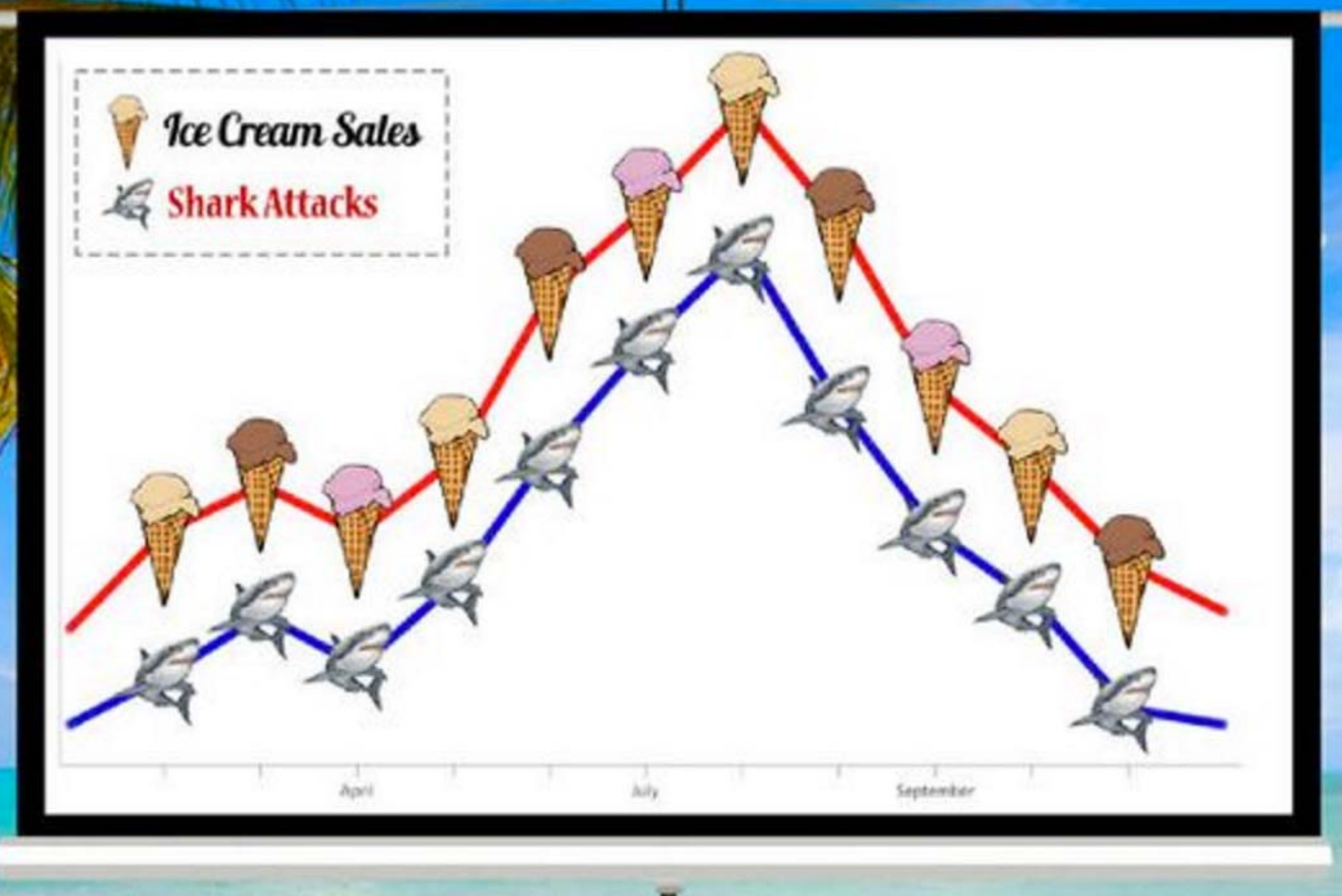
Intergovernmental Panel on Climate Change - 2014

“I am certain there is too much certainty in the world”

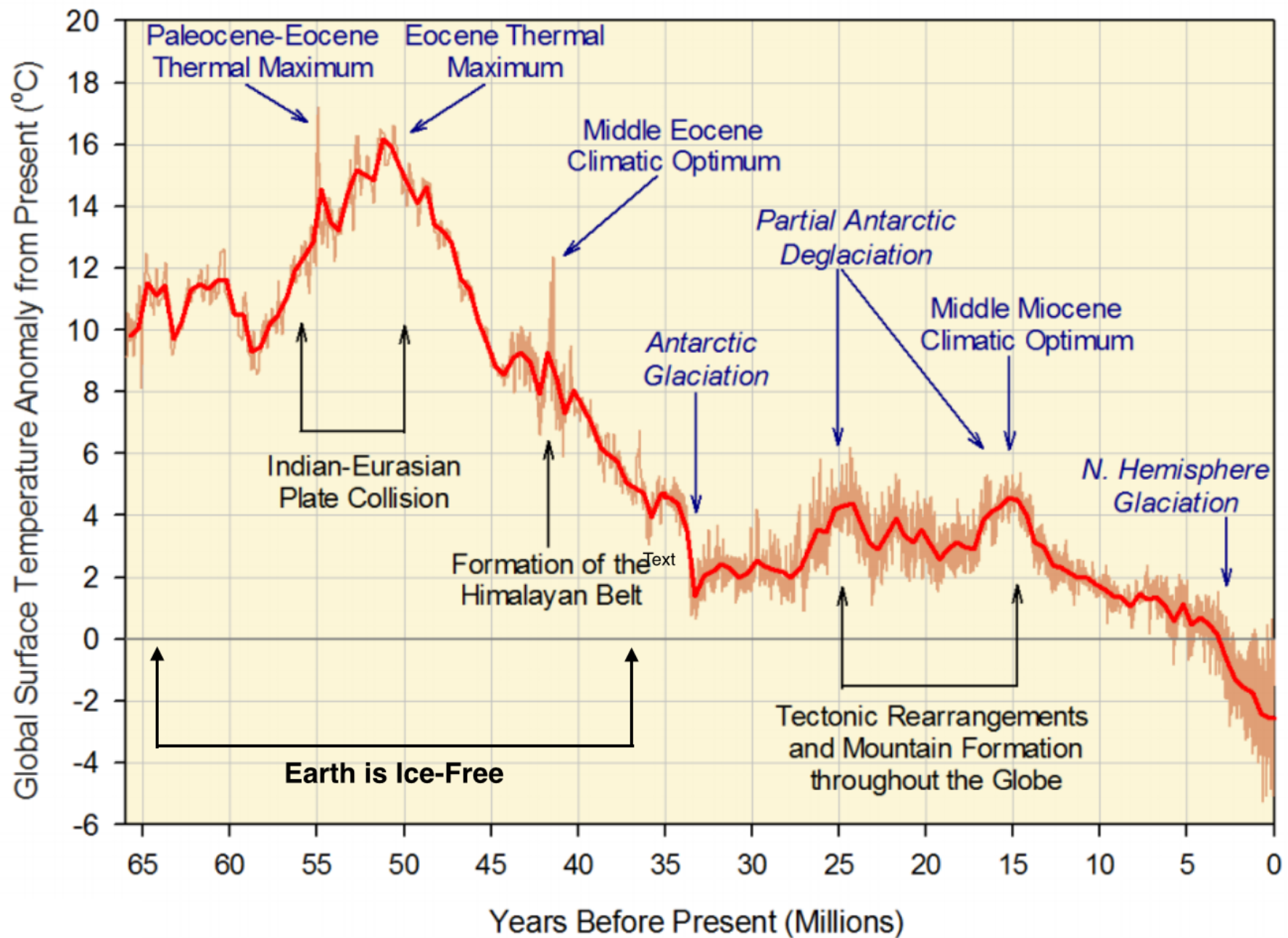
Michael Crichton - State of Fear - 2004



Correlation is not Causation

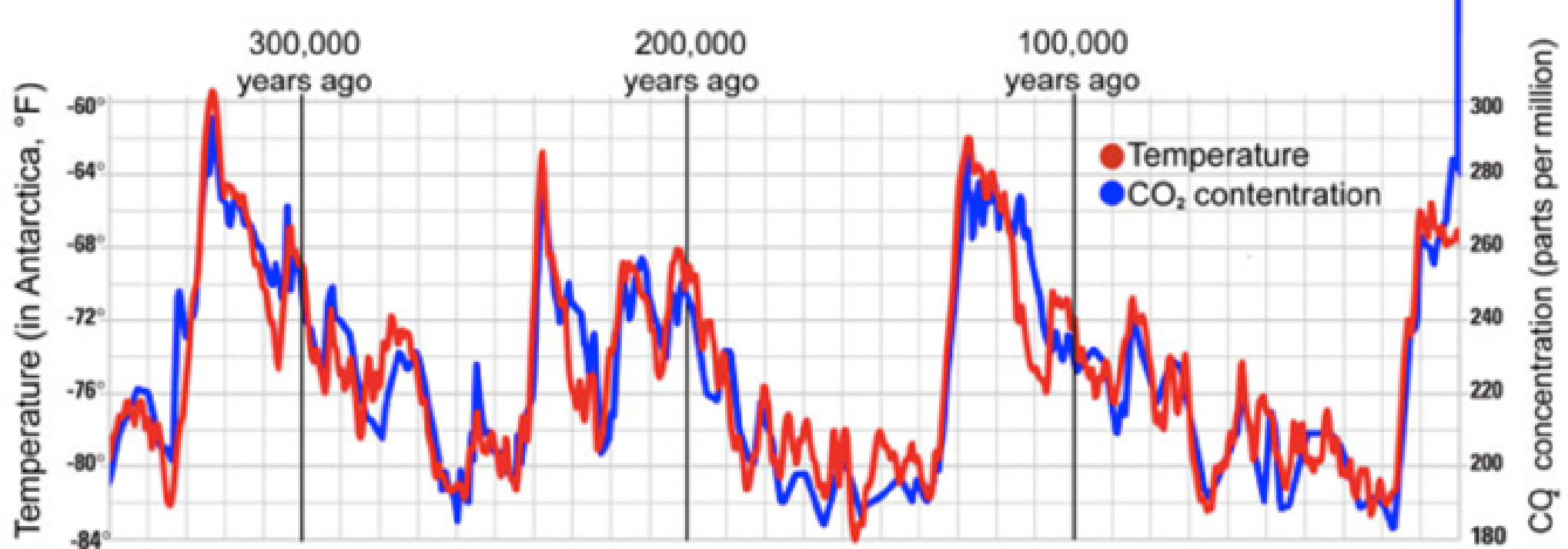


Shark attacks and ice cream sales far higher correlation than CO2 and temperature



Dynamics of global surface temperature during the Cenozoic Era reconstructed from ^{18}O proxies in marine sediments (Hansen et al. 2008).

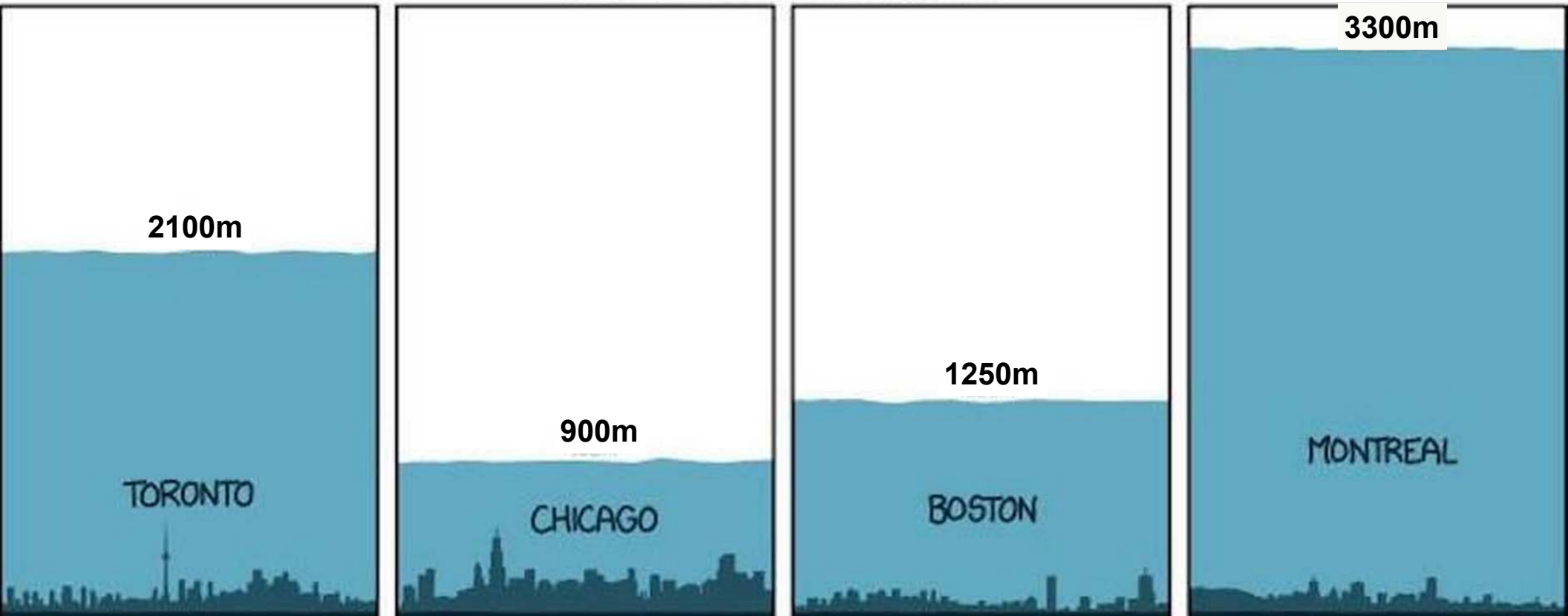
CO₂ Concentrations and Temperature Have Tracked Closely Over the Last 300,000 Years



**Successive major glaciations - 100,000 years duration
Temperature leads CO₂ average of 800 years**

THICKNESS OF THE ICE SHEETS

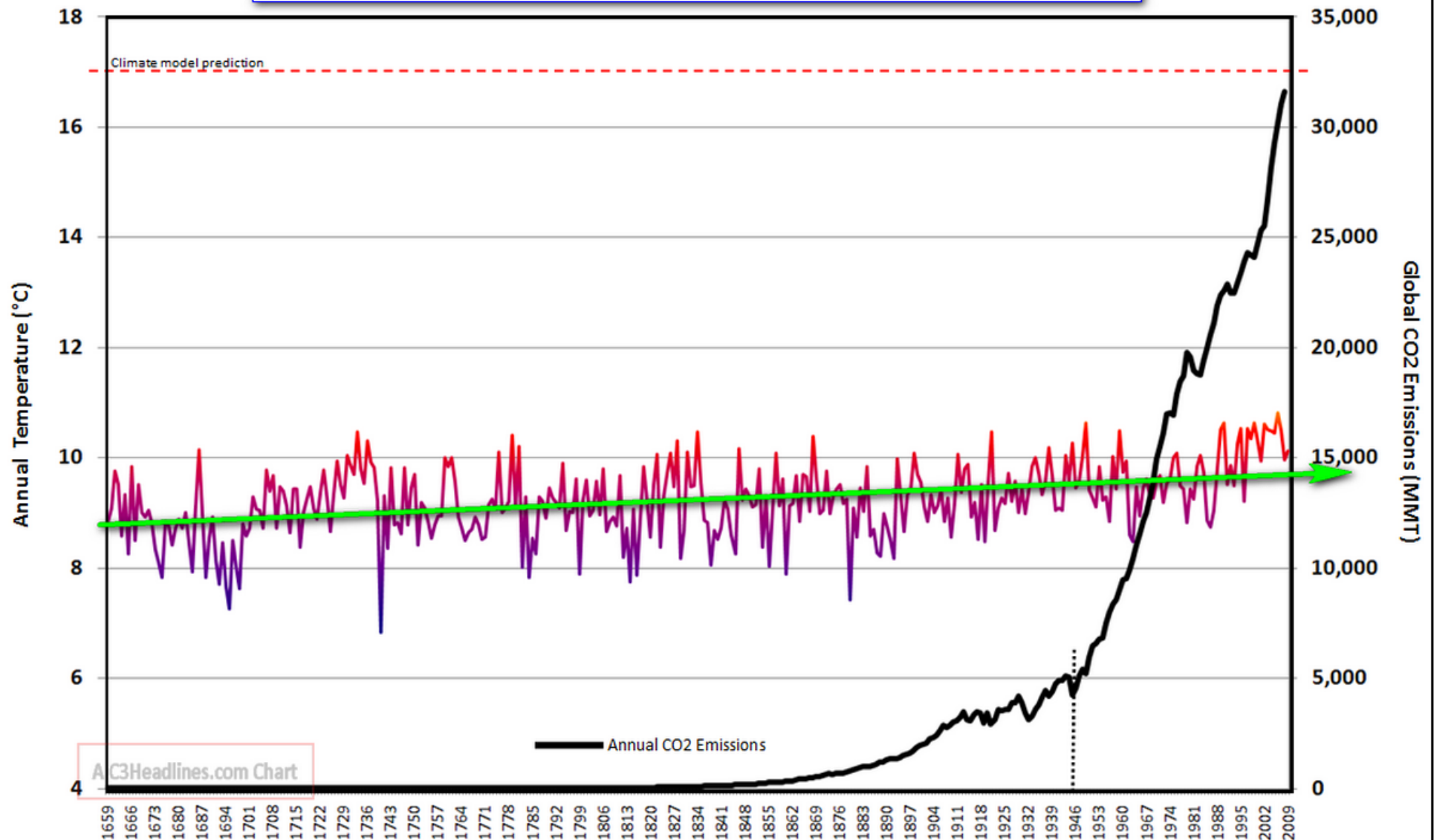
AT VARIOUS LOCATIONS
21,000 YEARS AGO
COMPARED WITH MODERN SKYLINES



This May Happen Again Someday

Central England Temperatures & Global CO2 Emissions

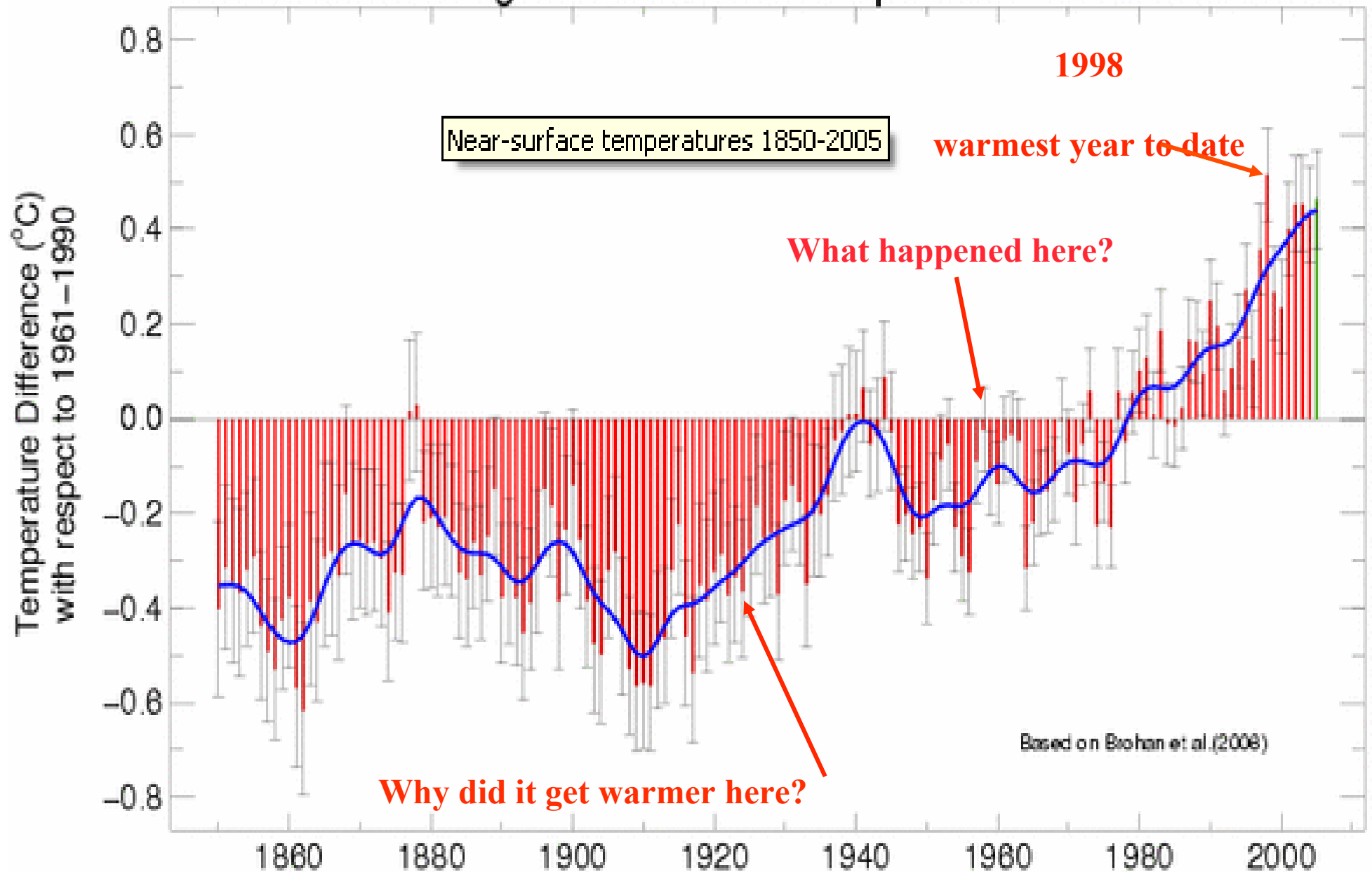
From 1659 to 2009



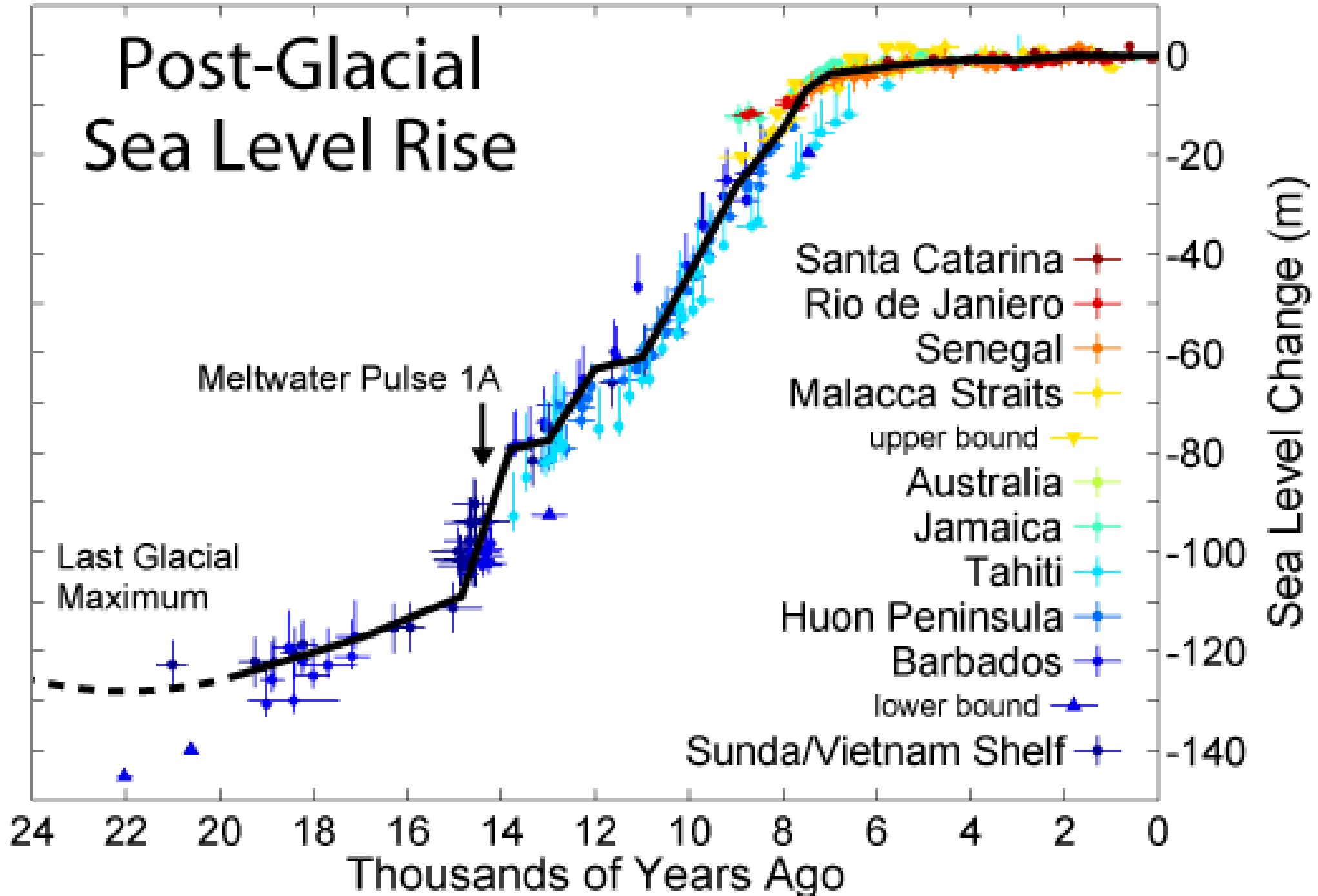
Source: <http://hadobs.metoffice.com/hadcet/cetm1659on.dat>

The graph above depicts annual temperatures of Central England (CET). In addition, the black curve represents annual CO2 emissions (tons). The temperature trend since 1659 is **0.26°C per century**. The dashed black line marks 1946 as the year when CO2 emissions started to grow at accelerated rate. Despite this tremendous growth, CO2 did not have much impact on the CET record. The red dashed line represents recent climate model predictions of expected temperatures 100 years from now, supposedly due to CO2 emissions.

Global Average Near-Surface Temperatures 1850– 2005

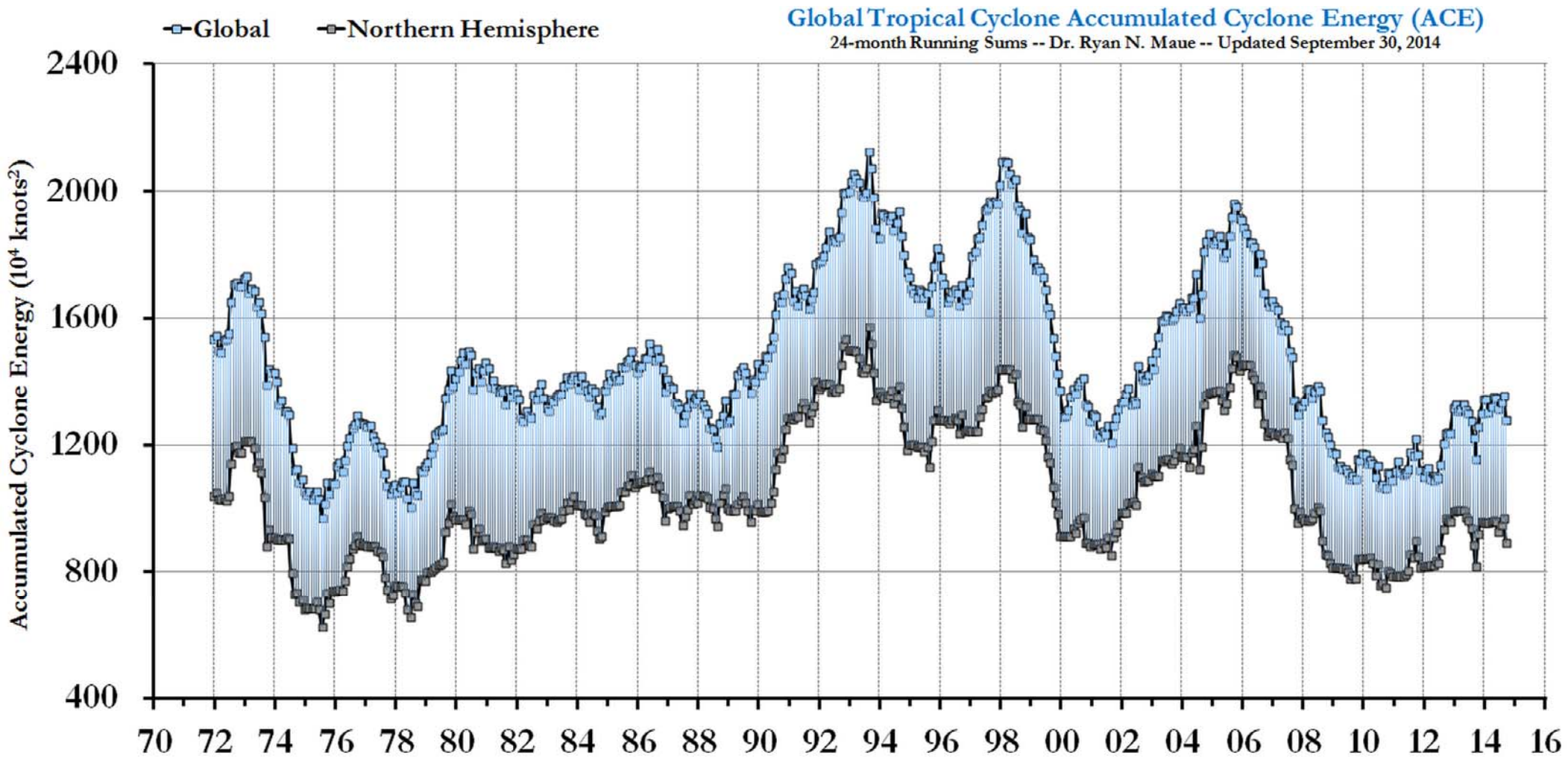


Post-Glacial Sea Level Rise



Rapid Rise in Sea-Level Ended 7,000 years ago

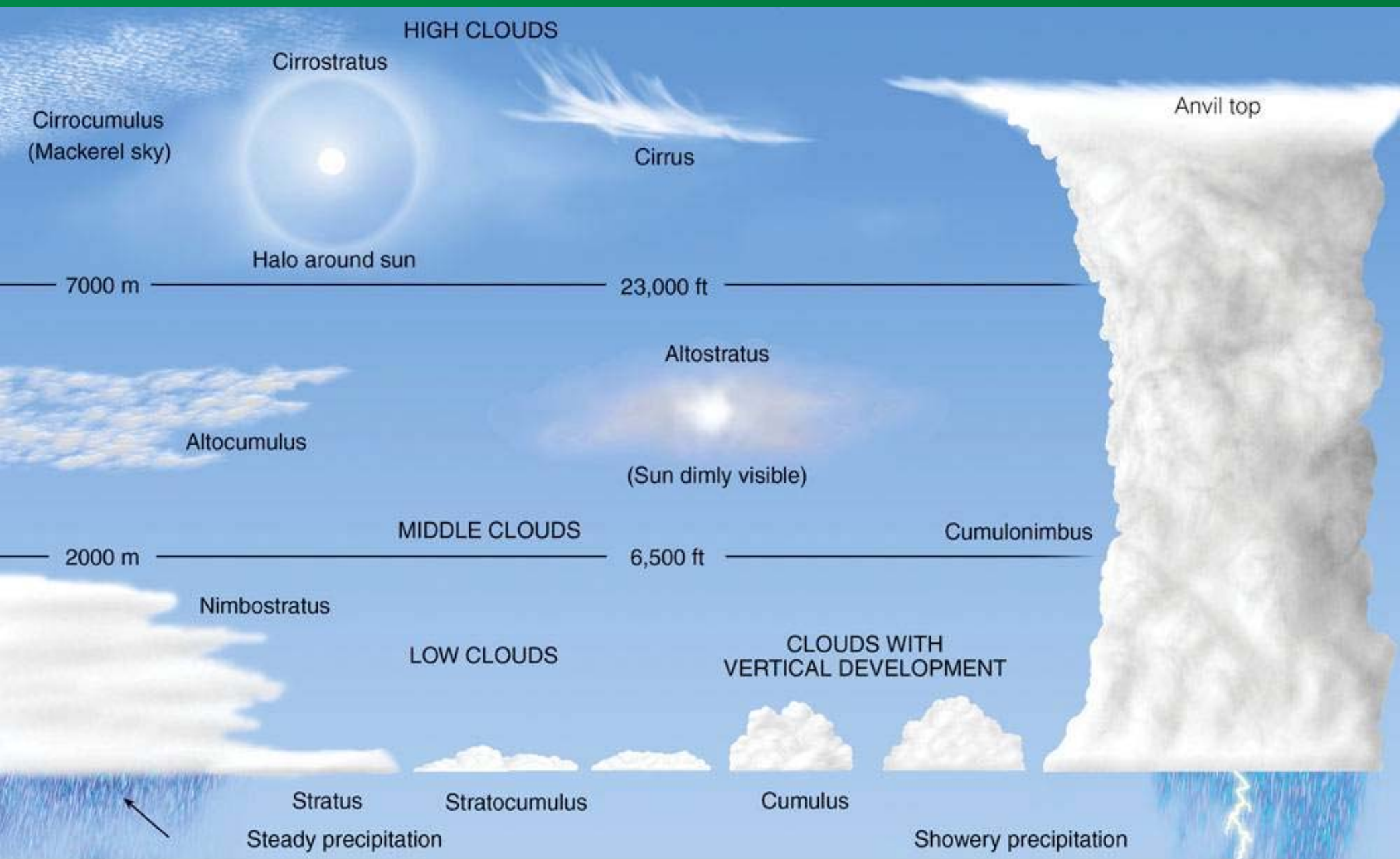




Tropical Cyclone Energy is Not Increasing

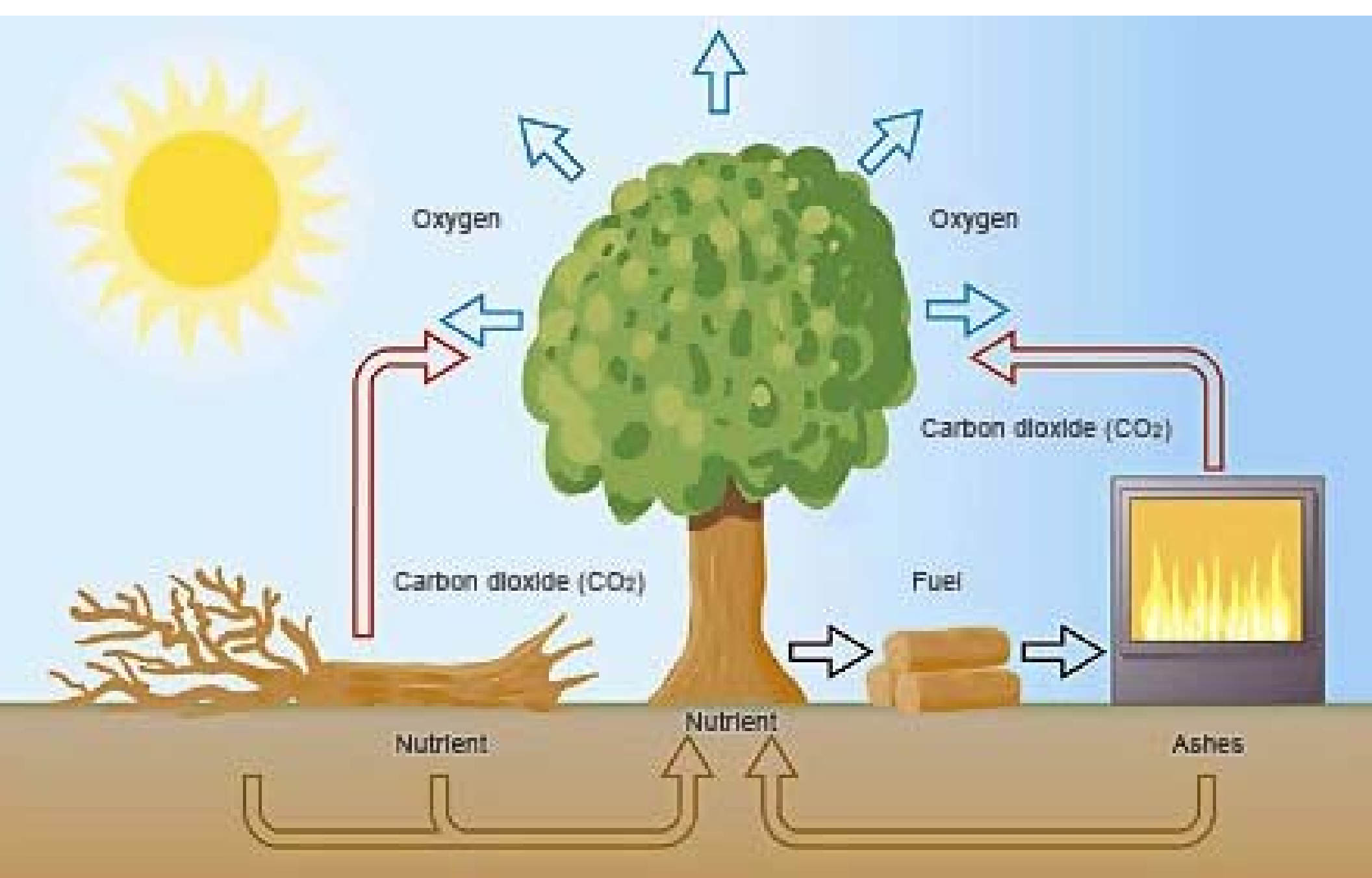
"There is medium evidence and **high agreement** that long-term trends in normalized losses (from extreme weather events) **have not been attributed to natural or anthropogenic climate change**"

IPCC - Special Report on Extremes, March 2012



© 2007 Thomson Higher Education

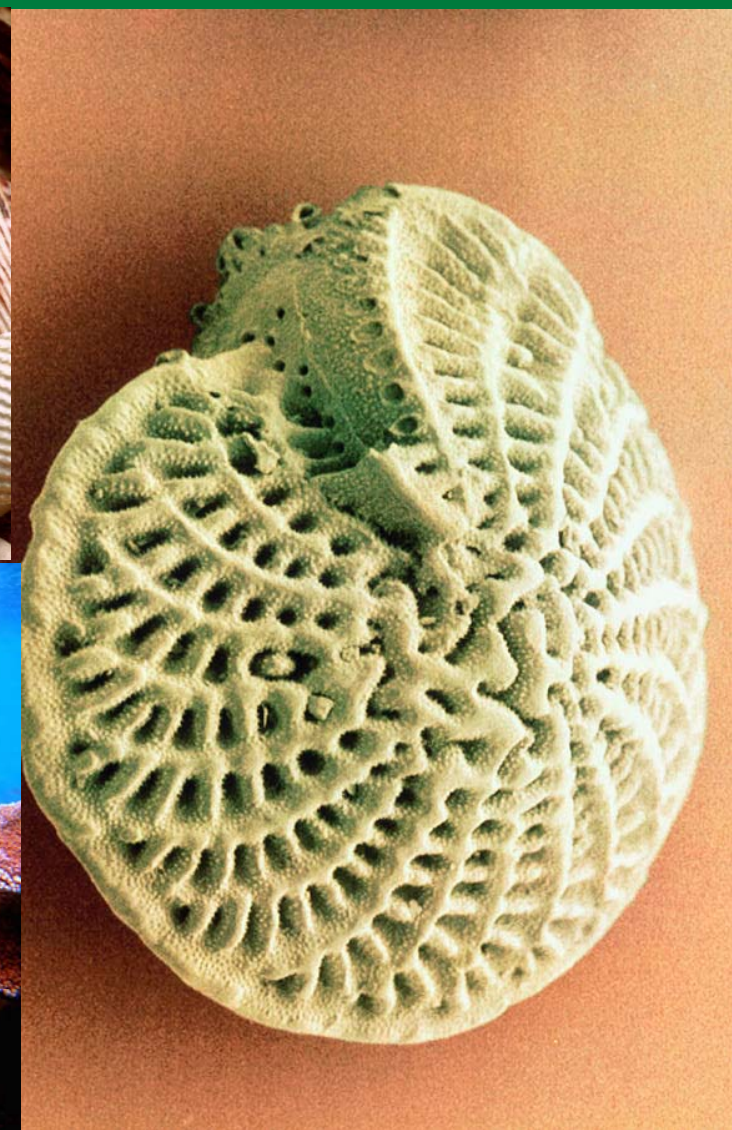
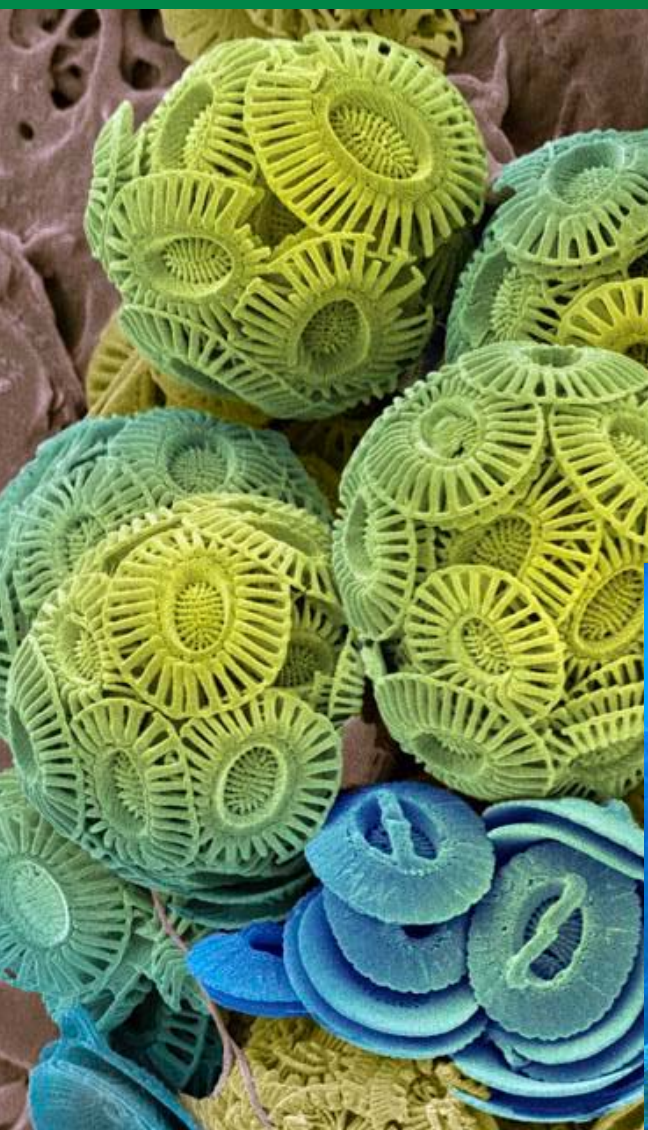
Clouds, Truly the Wild Card in Climate Change



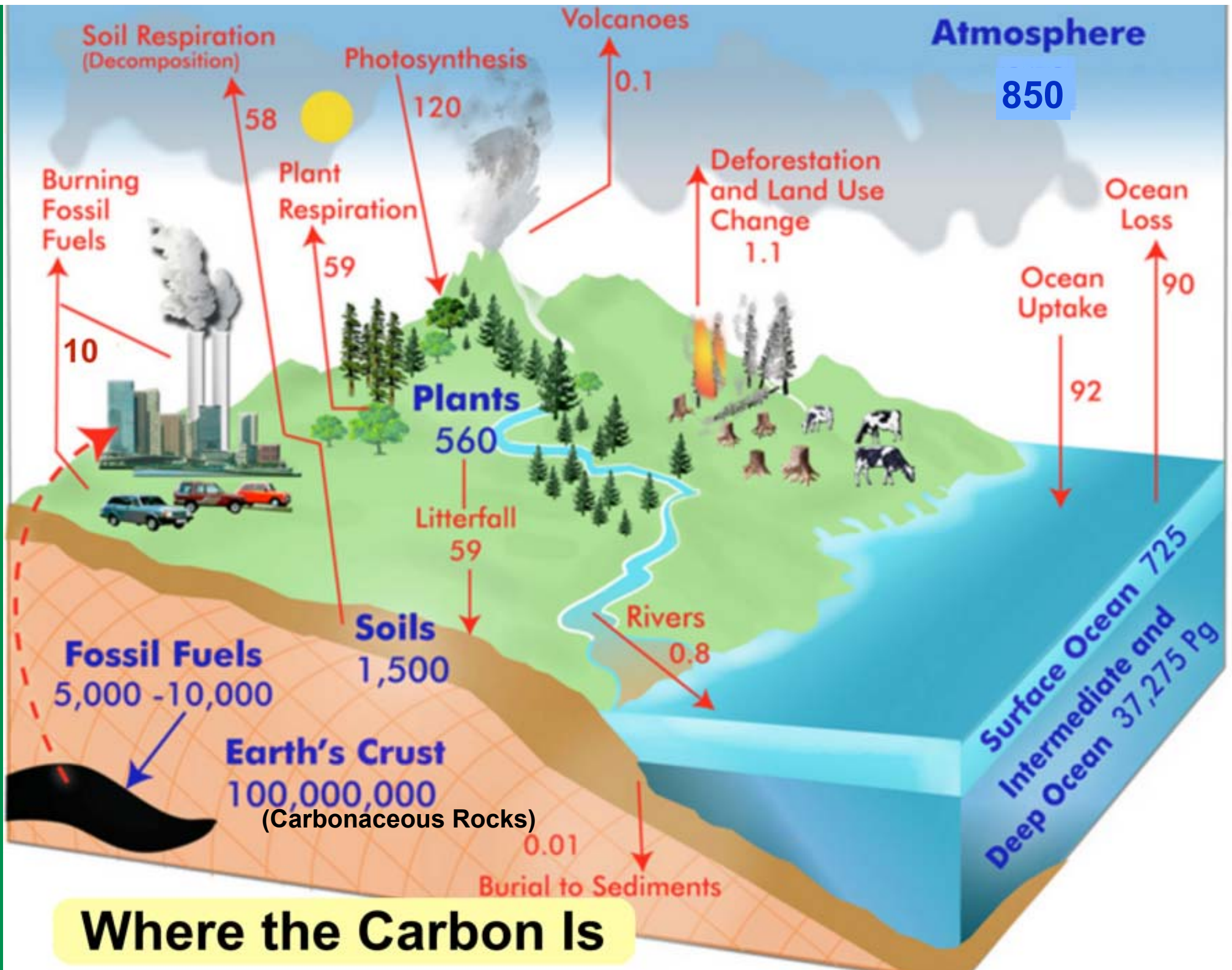
**CO₂ is the Most Important Food for All Life on Earth
It is not a "Pollutant"**

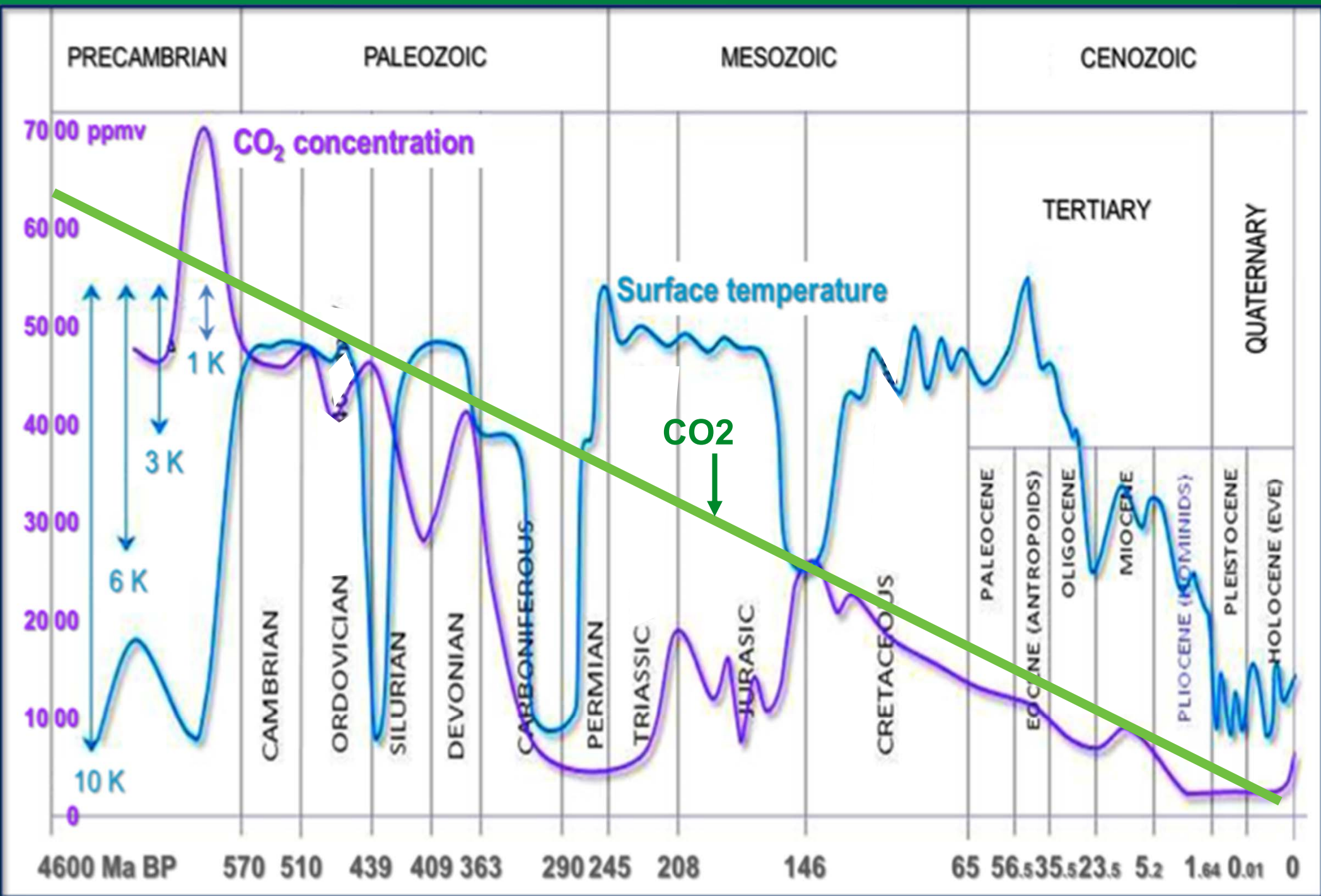


Life-Size Mockup of an Ammonite that Thrived at 2000 ppm CO₂

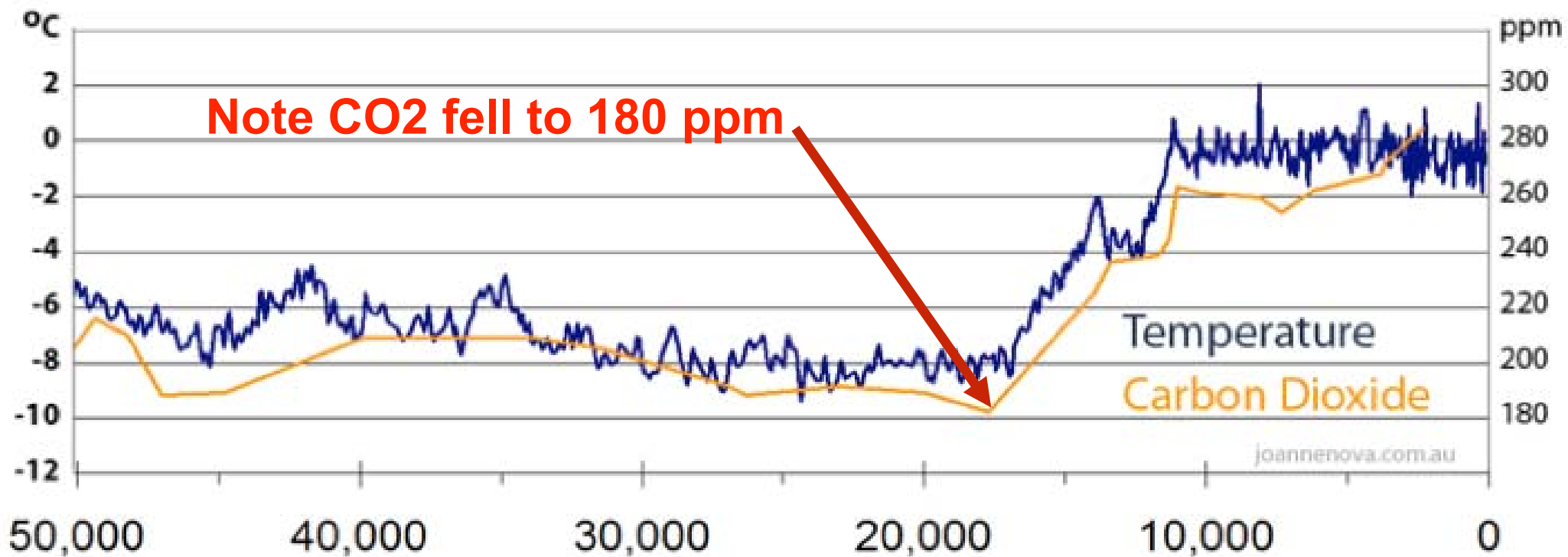


One Hundred Million Billion Tons of Carbon have been Sequestered by Coccolithophores (Phytoplankton), Shellfish, Corals and Foraminifera (Zooplankton)



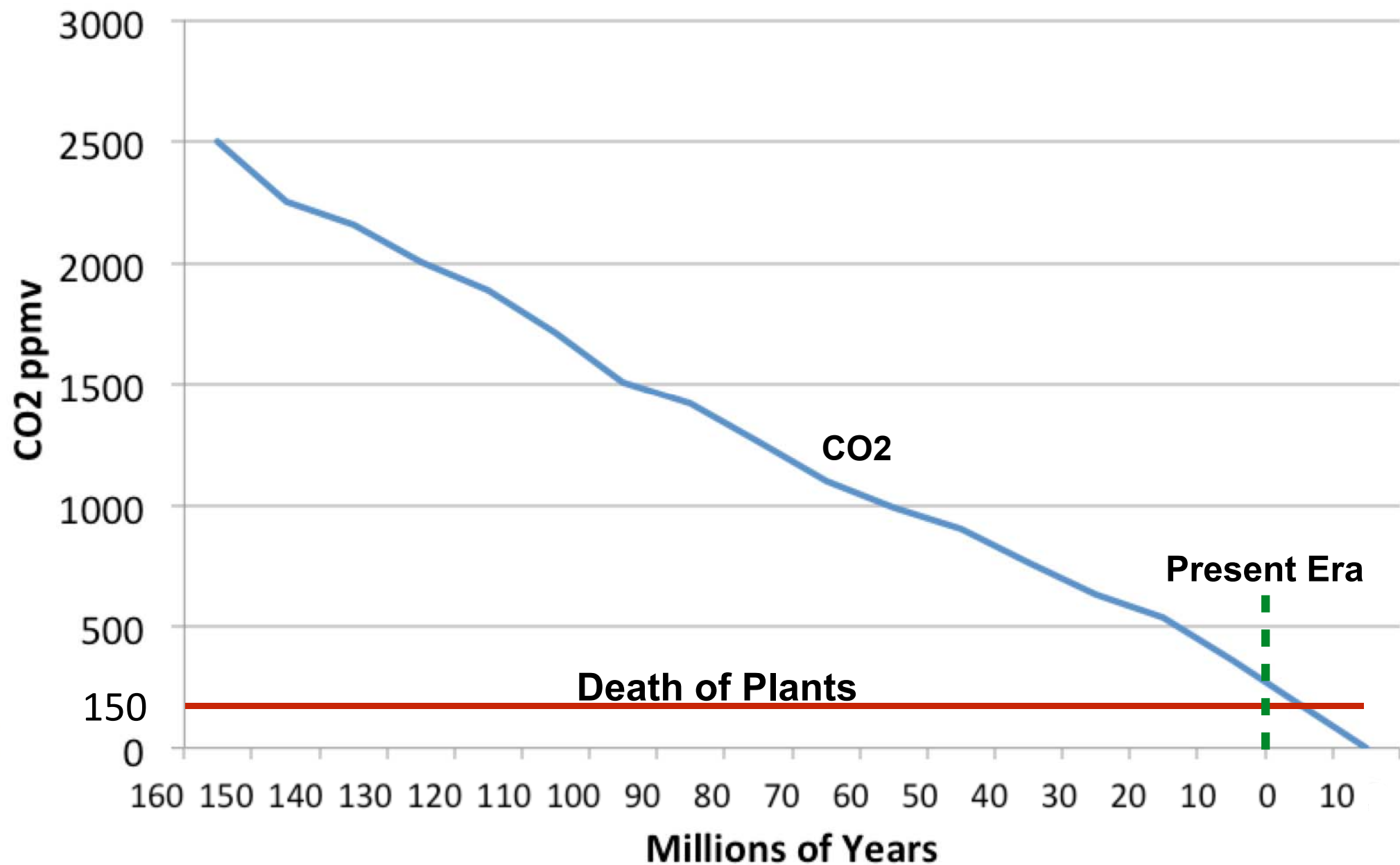


Vostok Ice Cores 50,000 - 2,500 years ago



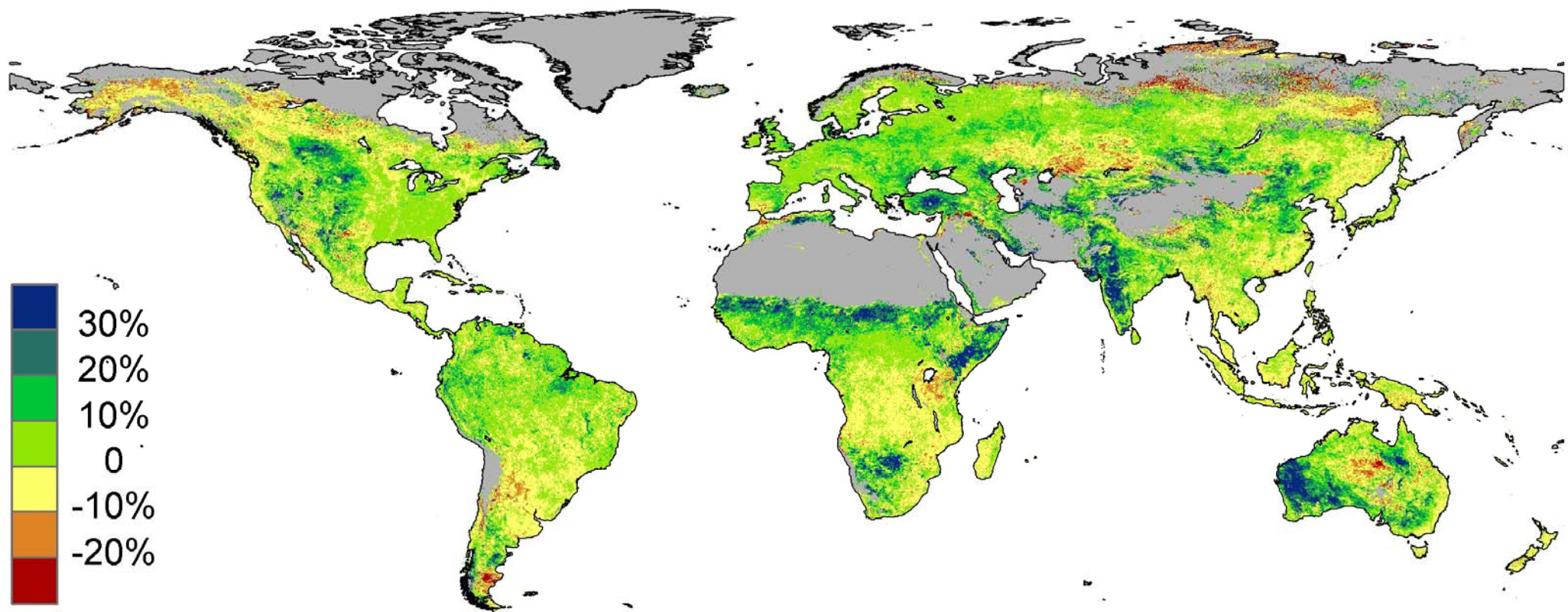
Atmospheric CO₂ fell to 180 ppm 18,000 years ago, almost certainly the lowest in the Earth's history

Projected CO2 Level in Absence of Human Emissions





Trees Grow Much Faster at Higher Levels of CO₂



**The Greening of the Earth: CO2 Fertilization Effect
Celebrate CO2!**

Allow Golden Rice Now!



“Genetically modified” is a very general term

We are all genetically modified, a random mixing of our mother’s and father’s genes. There are many ways to “genetically modify” our food crops.

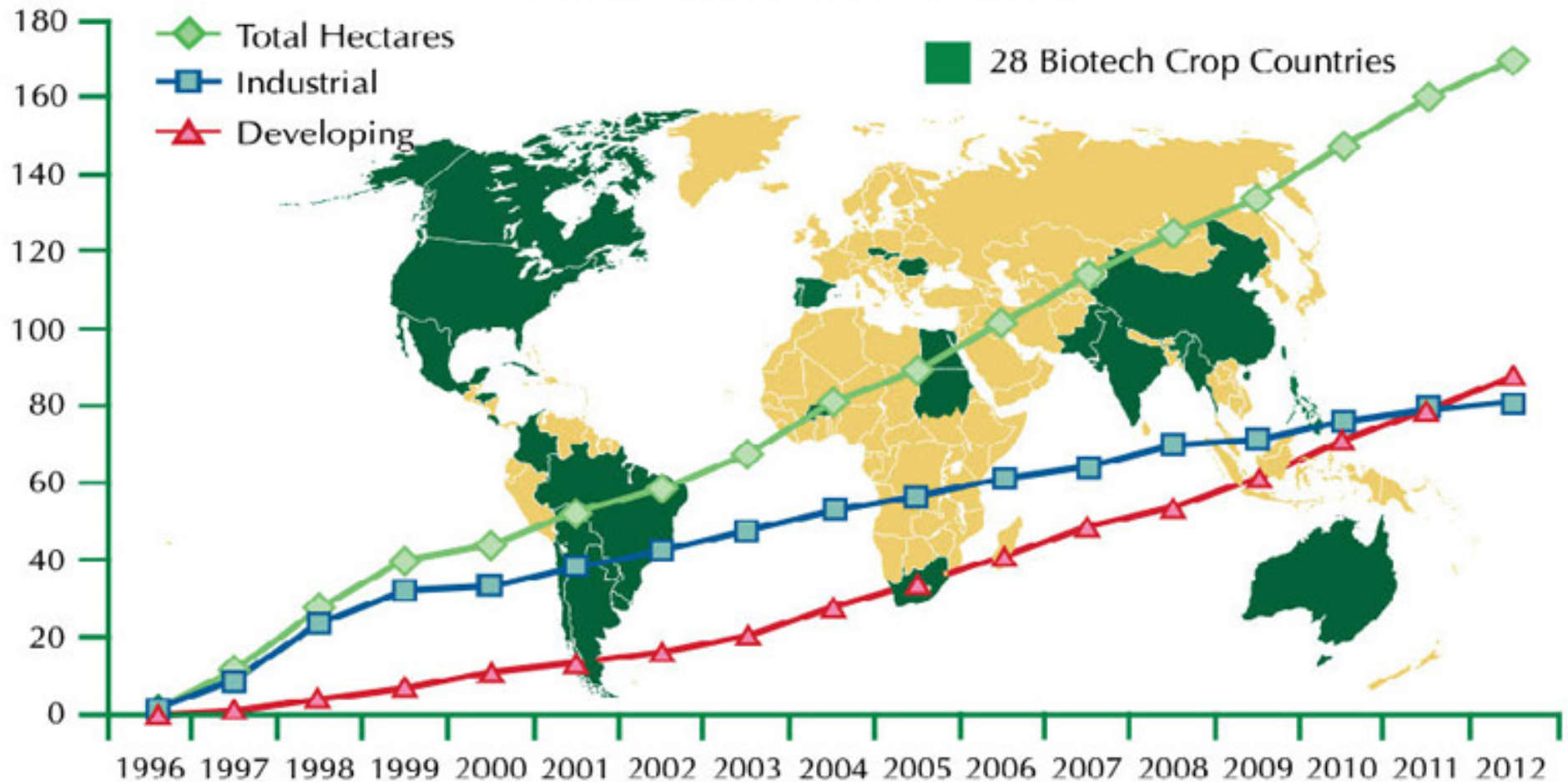


Organizations That Say GM Food is Safe

**The American Medical Association
The American Assn for the Advancement of Science
The World Health Organization
The National Academy of Sciences
The Royal Society of Medicine (UK)
The European Commission
The American Council on Science and Health
The Academy of Nutrition and Dietetics
The American Society for Cell Biology
The American Society for Microbiology
The American Society of Plant Sciences
The International Seed Foundation
The International Society of African Scientists
The Federation of Animal Science Societies
The Society of Toxicology
The French Academy of Science
The Union of German Academies
The International Council for Science and many more**



GLOBAL AREA OF BIOTECH CROPS Million Hectares (1996-2012)



A record 17.3 million farmers, in 28 countries, planted 170.3 million hectares (420 million acres) in 2012, a sustained increase of 6% or 10.3 million hectares (25 million acres) over 2011.

Source: Clive James, 2012.

The Main Biotech Crops Grown Today are Corn, Soybeans, Cotton, Canola, and Papaya. Many others are in development.

Philippines

**2014 – 750,000 hectares
375,000 small farmers**

Since 2002, when GM corn was introduced in the Philippines, farmers income has increased by \$155 million per year, and pesticide use has declined more than 50%.



A farmer with Bt corn in the Philippines – Greenpeace warned of “dying children and cancer clusters”.



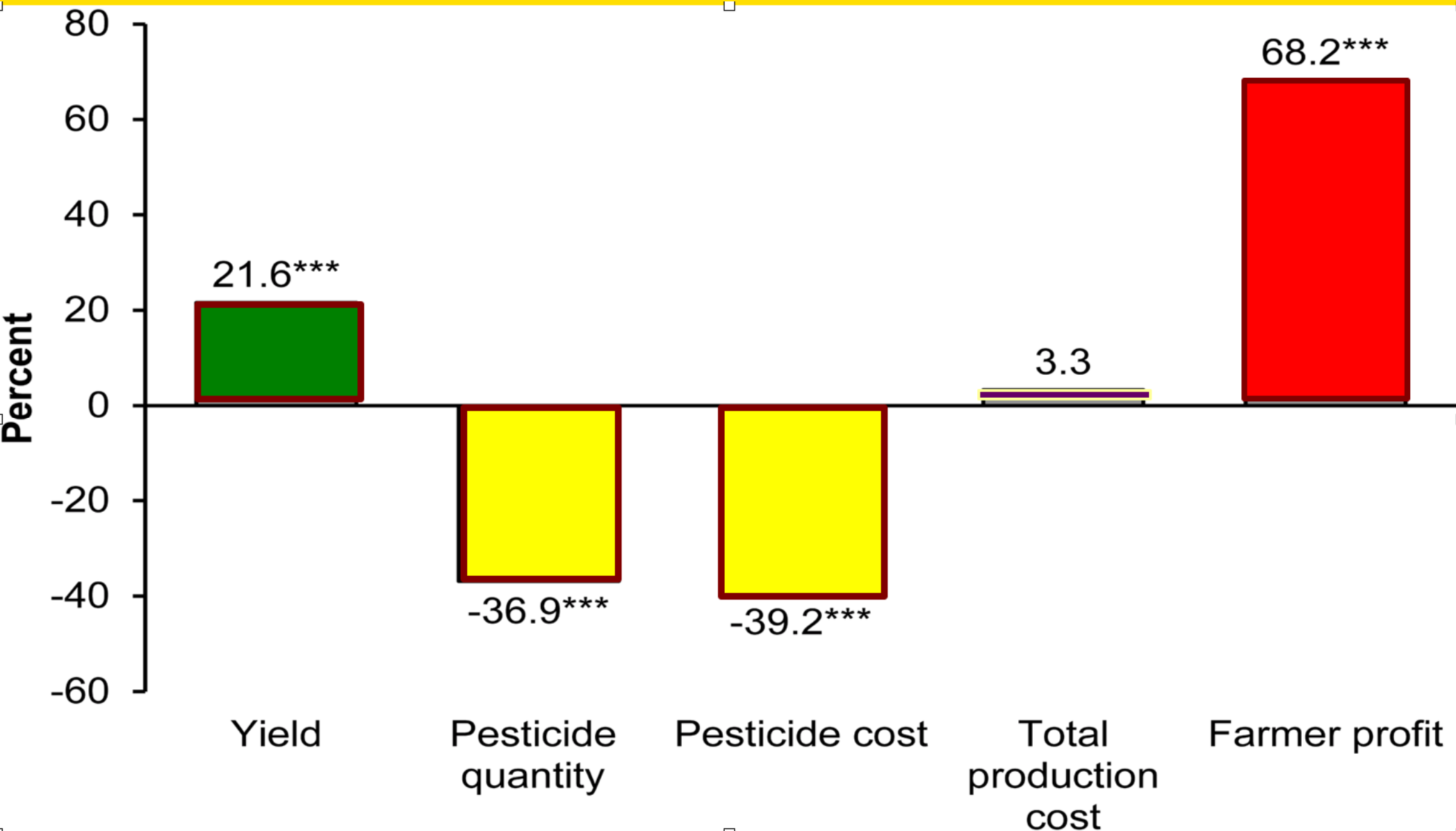
Bt Brinjal Commercial Growing in Bangladesh

Indian farmers forced the government to legalize Bt cotton

Since 2002 when GM cotton was introduced in India, production has more than doubled. India was a cotton-importing country. Today India exports 20% of its production. 70 million people are employed in cotton farming.



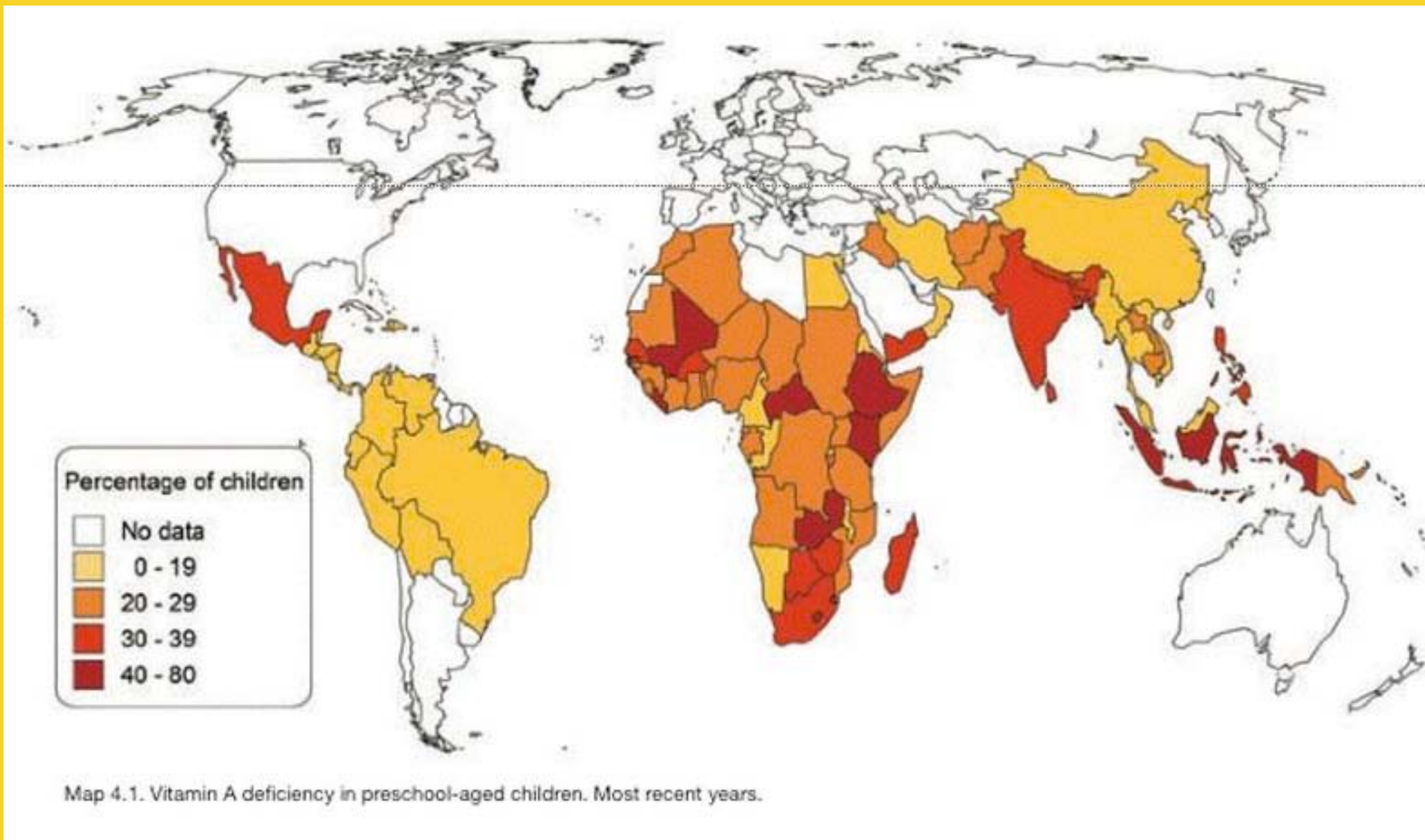
Impacts of GM Crop Adoption



Klümper W, Qaim M (2014) A Meta-Analysis of the Impacts of Genetically Modified Crops. PLoS ONE 9(11): e111629.

doi:10.1371/journal.pone.0111629

<http://127.0.0.1:8081/plosone/article?id=info:doi/10.1371/journal.pone.0111629>



Vitamin A Deficiency in Preschool-Age Children



250 million preschool children are vitamin A deficient.

World Health Organization

About 2 million people die from diseases related to vitamin A deficiency every year.

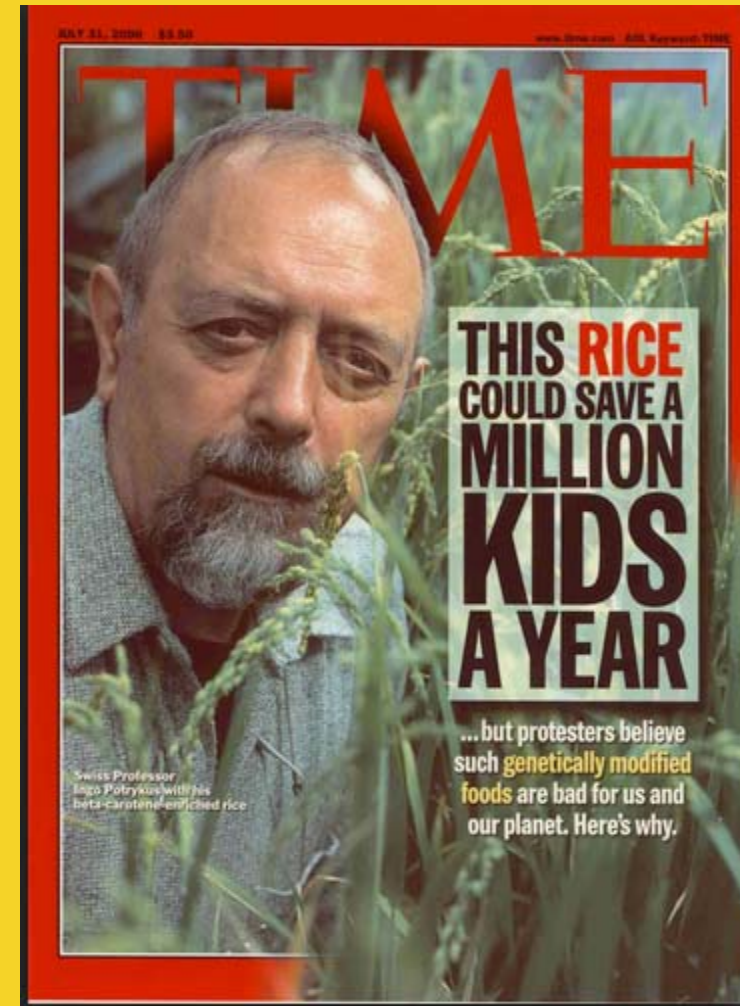
Golden Rice Project

Between 250,000 and 500,000 children go blind each year, half of who die within one year.

World Health Organization

Organizations Involved With the Development of Golden Rice

The Golden Rice Humanitarian Board
The International Rice Research Institute
The Rockefeller Foundation
Syngenta Foundation
Bill and Melinda Gates Foundation
Philippine Rice Research institute
Bangladesh Rice Research Institute
Helen Keller International
Biosafety Resources Network
Biotechnology Institute of the Philippines
Seed Stories
United States Agency for International Development (USAID)
US National Institutes of Health
Bayer CropScience





A Golden Rice Field Trial at the Philippine Rice Research Institute



Urban activists, supported by Greenpeace (these are not farmers) destroying research crops in the Philippines in August 2013. Filipino farmers don't have tattoos, video cameras, or dyed hair.



Greenpeace anti-GMO Activists Claiming that Golden Rice is Deadly
The ultimate disinformation and ignorance

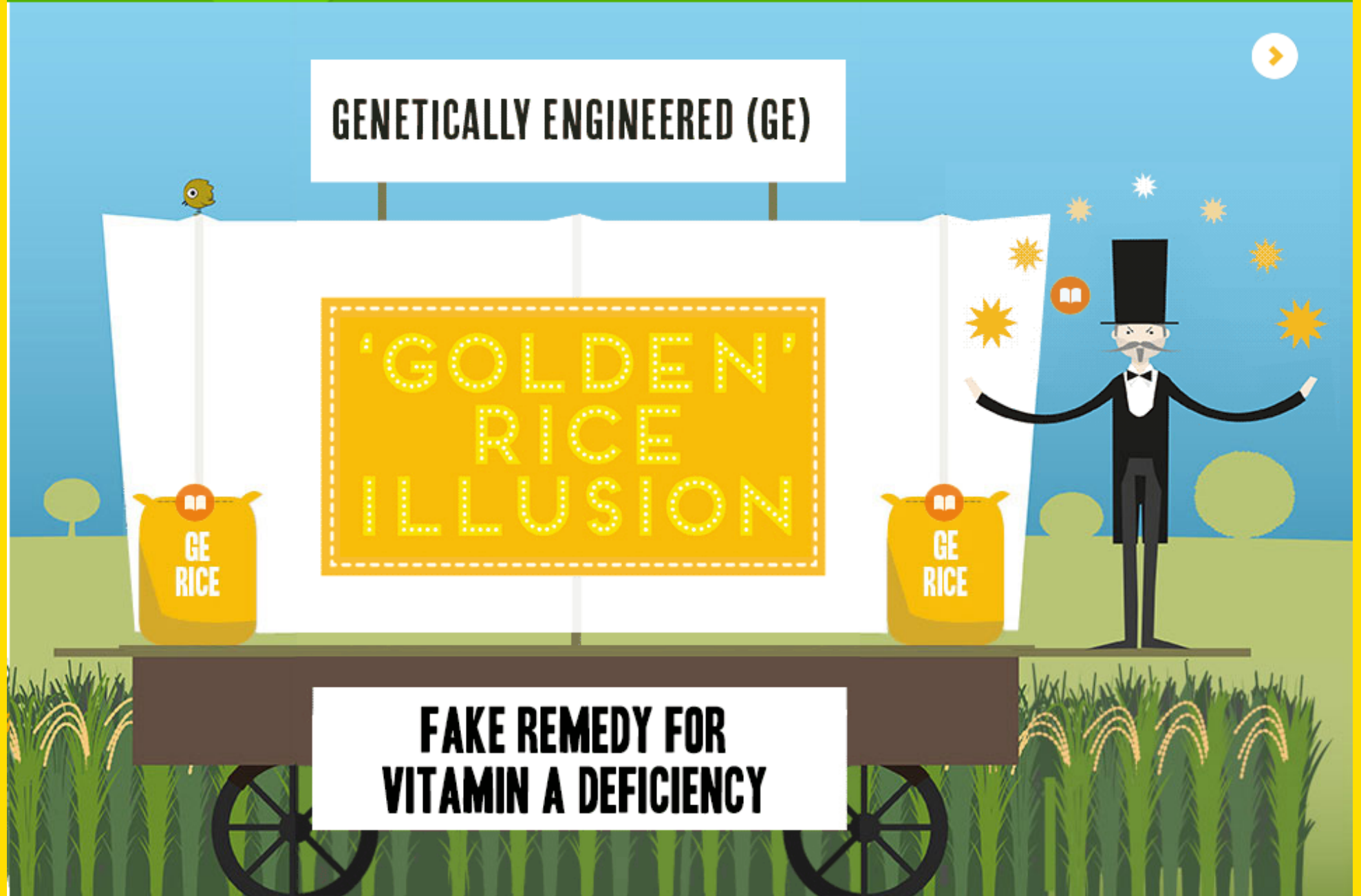
GENETICALLY ENGINEERED (GE)

**'GOLDEN'
RICE
ILLUSION**

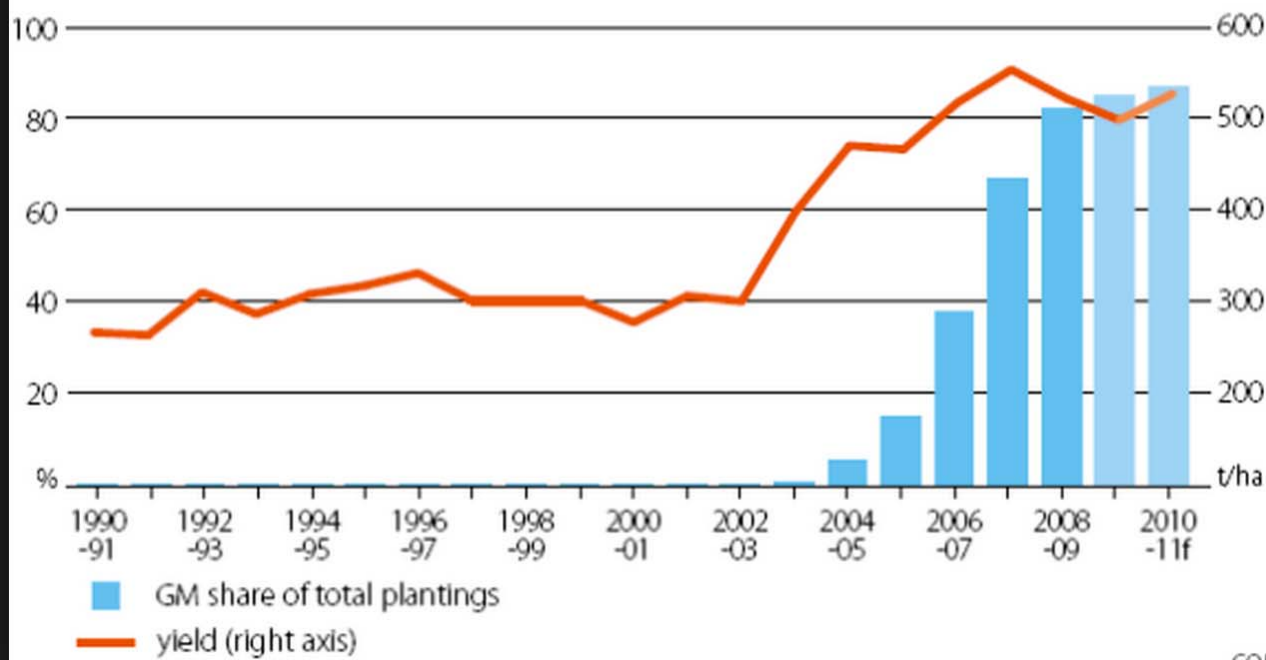
**GE
RICE**

**GE
RICE**

**FAKE REMEDY FOR
VITAMIN A DEFICIENCY**



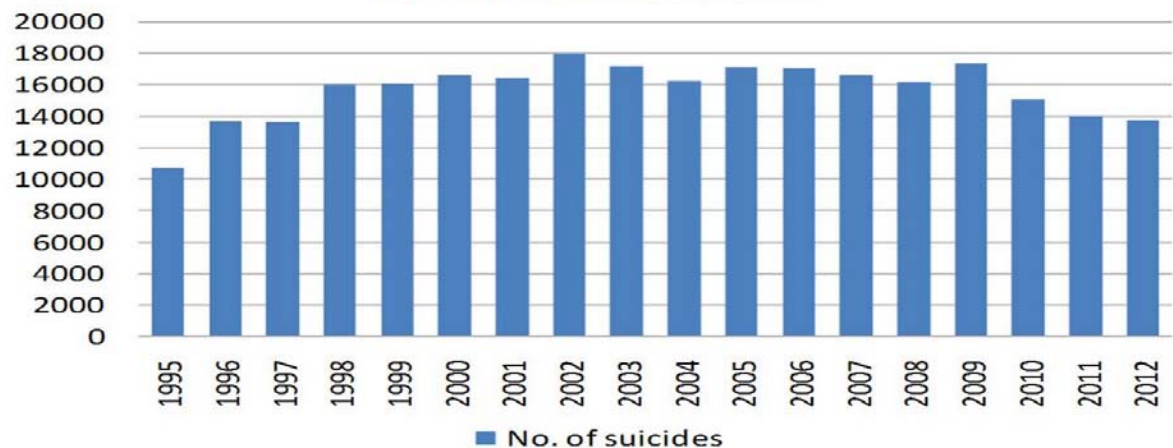
Indian GM cotton adoption and yield



“saying farmers should be free to grow GMOs which can contaminate organic farms is like saying rapists should have freedom to rape”

“270,000 Indian farmers have committed suicide since Monsanto entered the Indian seed market,” she said. ‘It’s genocide.’

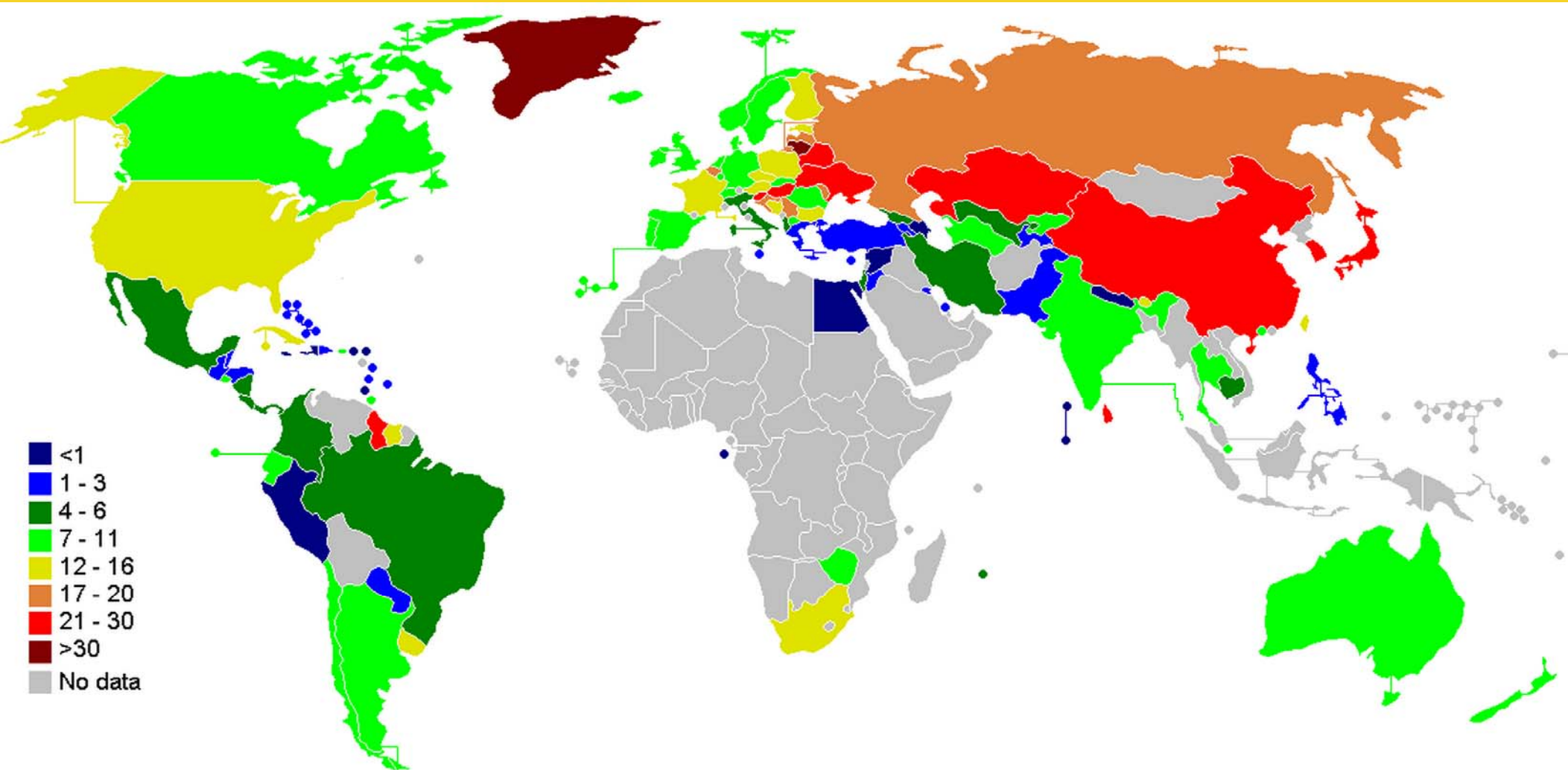
Farmers suicides in India



Total 2,84,694 in 18 years



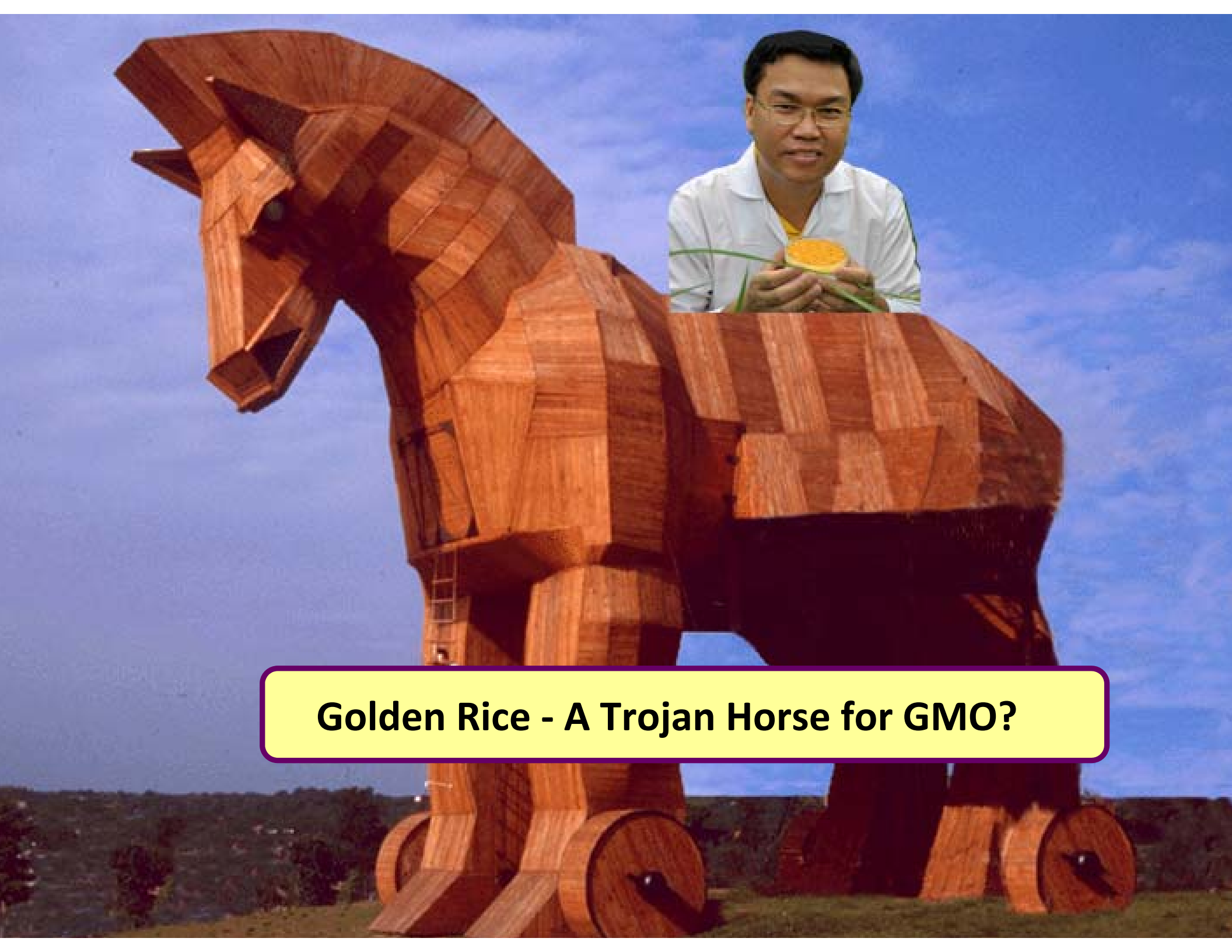
Vandana Shiva



**Per Capita Suicide Rate Lower in India than US.
Same as Canada, Australia, New Zealand.**

**40 grams of Golden Rice a day is all that is needed
to prevent blindness and death**





Golden Rice - A Trojan Horse for GMO?



Twitter @EcoSenseNow
www.allowgoldenricenow.org

CONFESSIONS OF A GREENPEACE DROPOUT

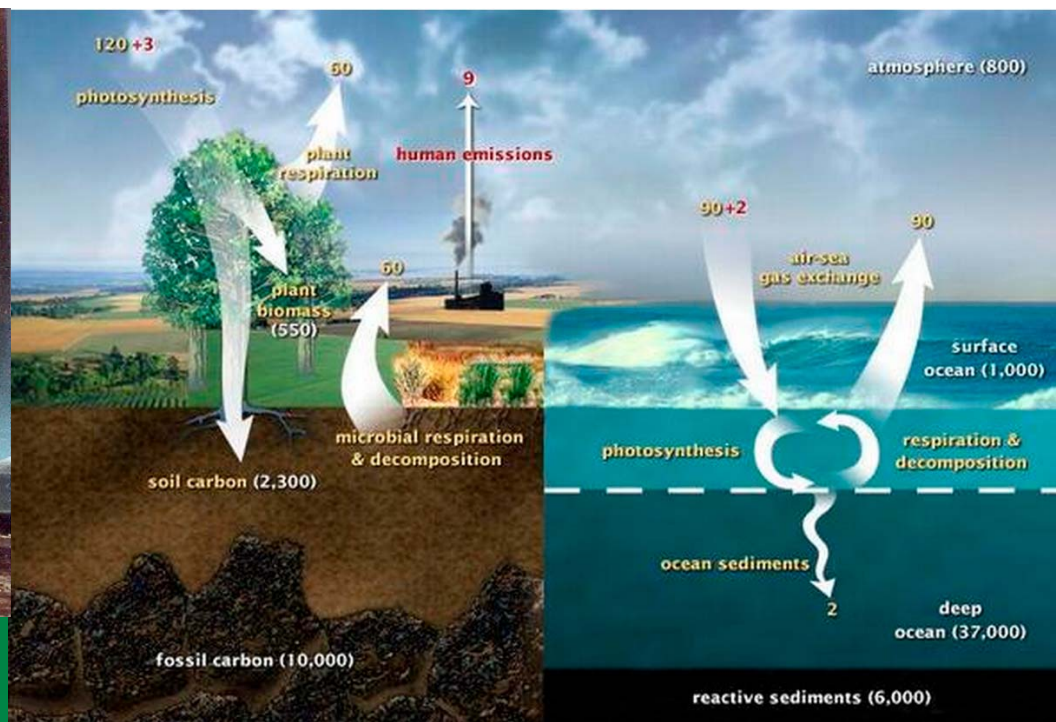
THE MAKING OF
A SENSIBLE ENVIRONMENTALIST

PATRICK MOORE

REVISED EDITION 2013



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Golden Rice Now!

