

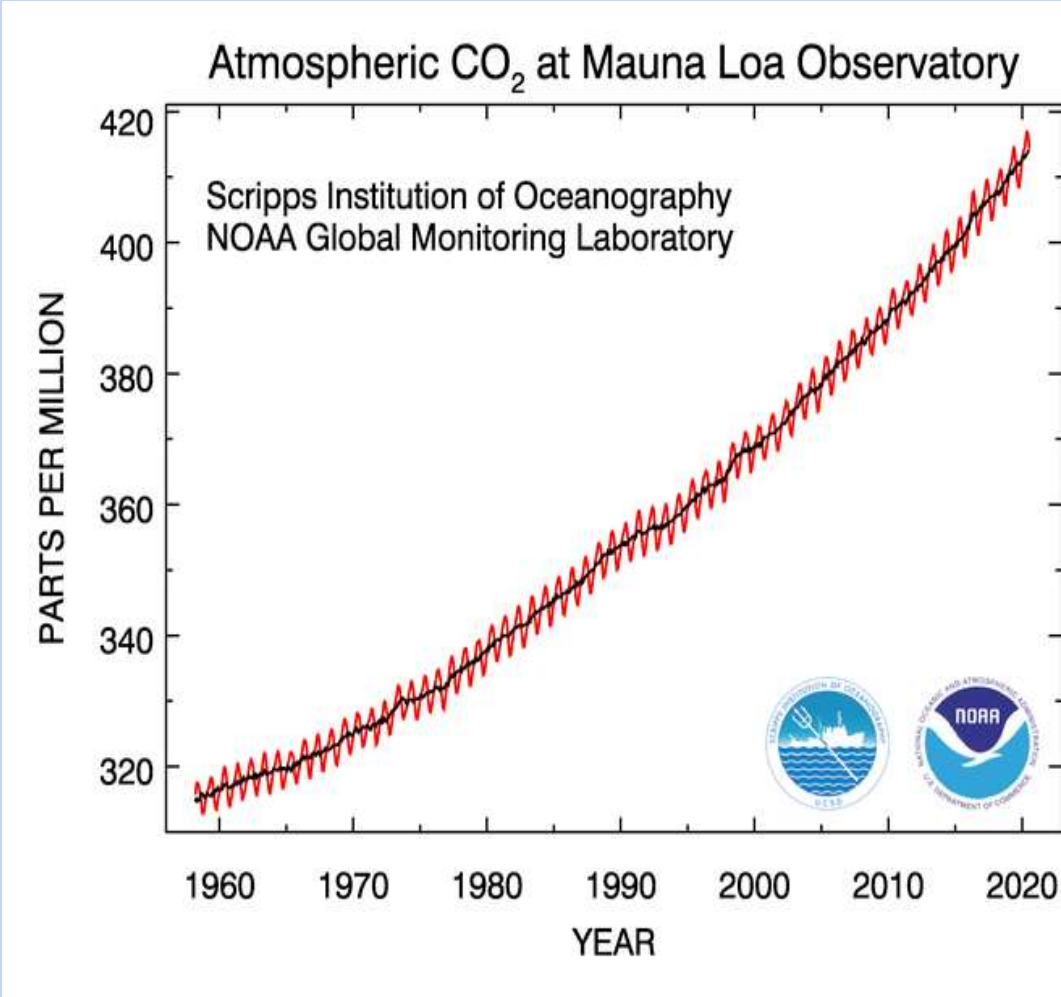
We ALL WANT TO SAVE LIVES

NICE aims to....

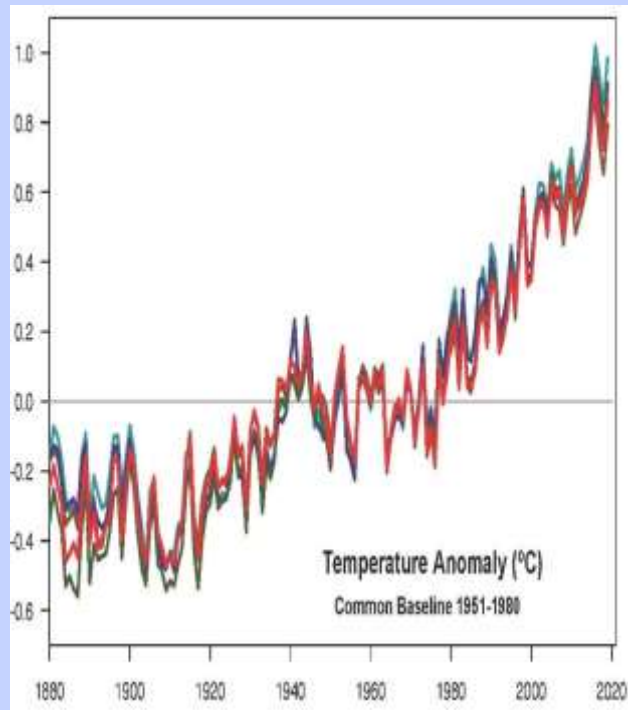
“improve health and wellbeing by putting science and evidence at the heart of health and care decision making”

<https://www.nice.org.uk/about/who-we-are/our-charter>

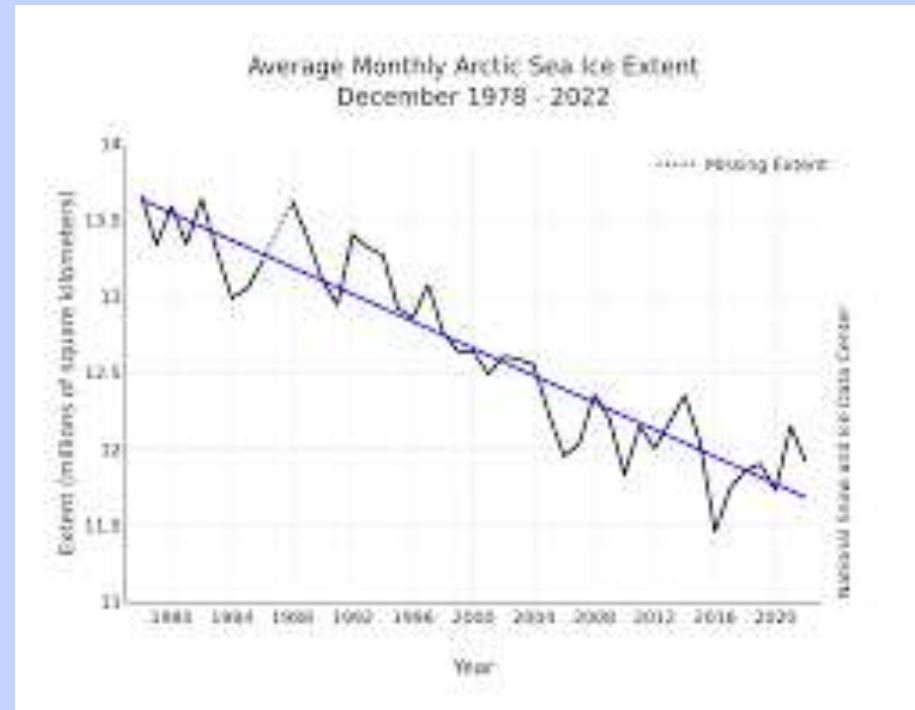
**But there is no point at all
If we and our children
die horribly from something else
which, together, we can prevent**



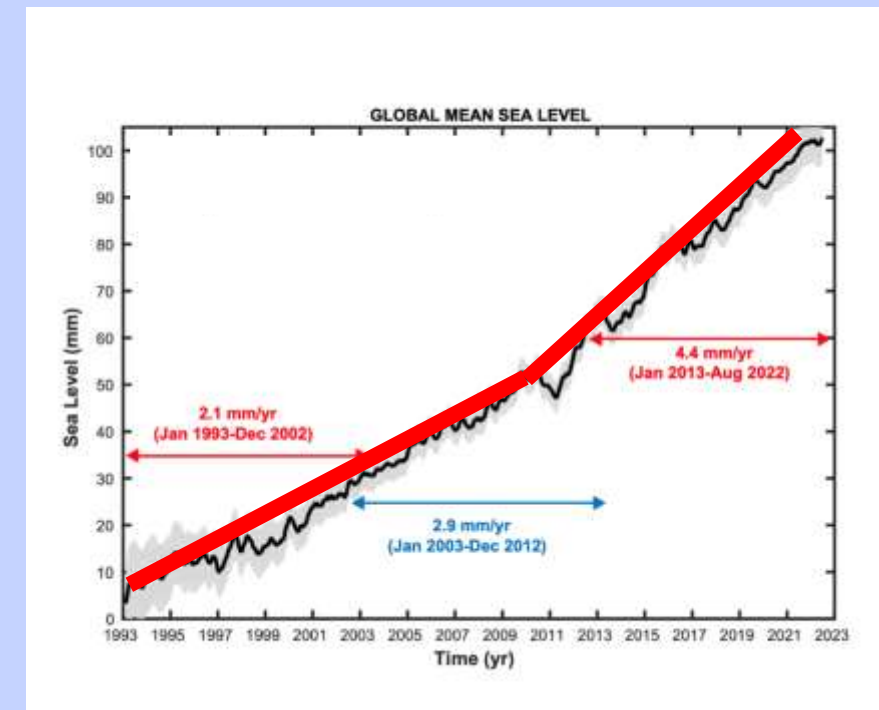
Rising Temperatures



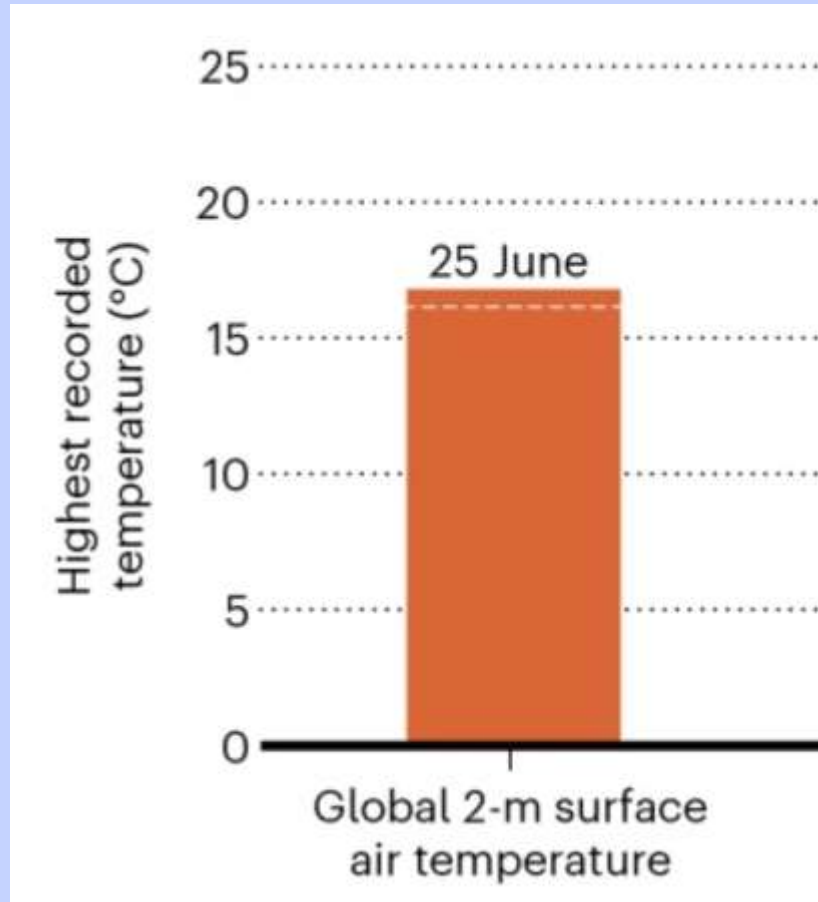
Vanishing Ice



Rising Seas



HIGHEST EVER RECORDED

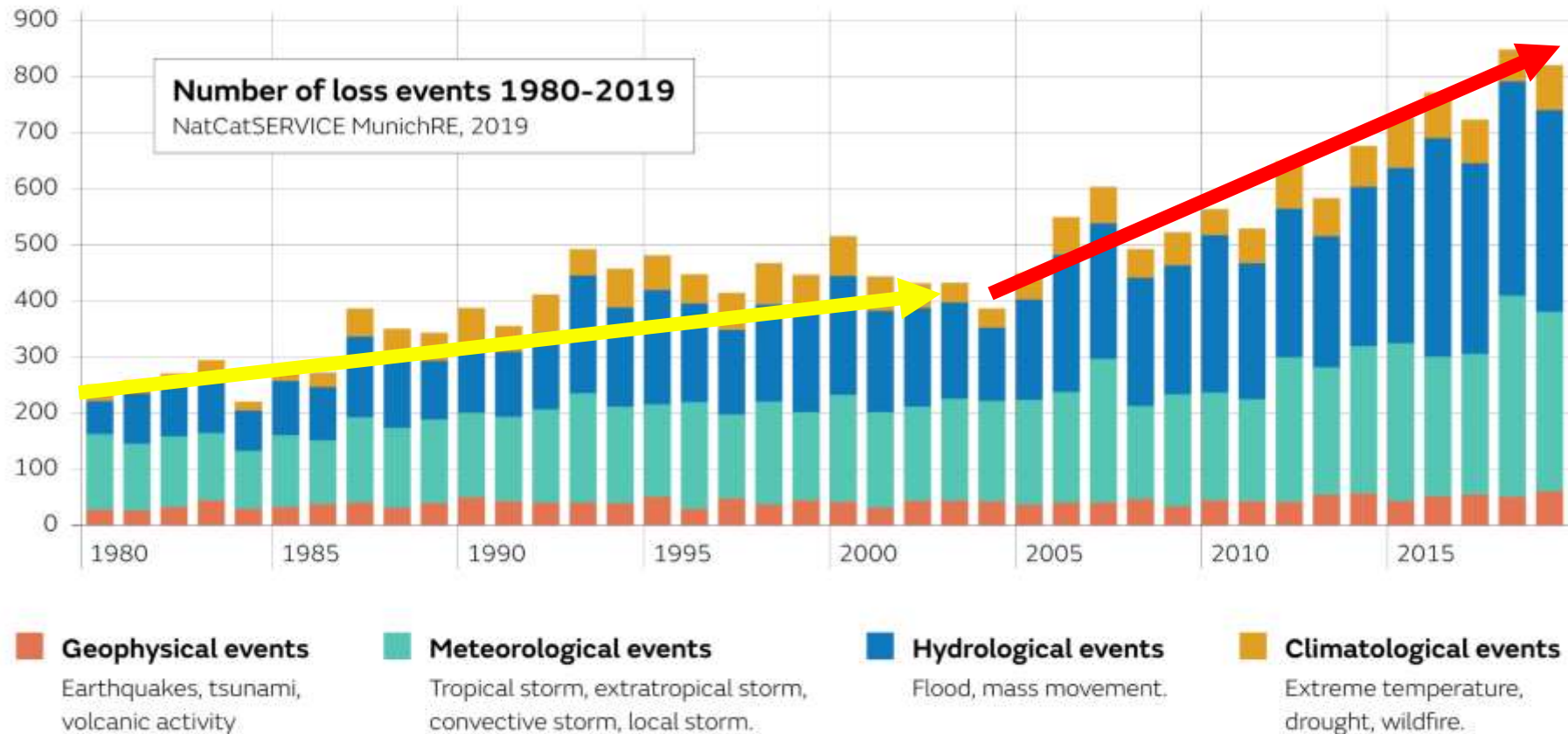


Nature, July 2023



Met Office

MORE FREQUENT EXTREME WEATHER



AUGUST 2023

Thousands flee as 'unprecedented' fires hit Canada's Northwest Territories

Officials say 20,000 residents of Yellowknife are leaving via land and air, but the northern city is not in 'immediate danger'.



CANADA



HAWAII

More than a million displaced as China's Hebei region reels after record rains

By Simone McCarthy, Kathleen Magrino, and Barry Wang CNN
Updated 5:43 AM EDT, Fri August 4, 2023

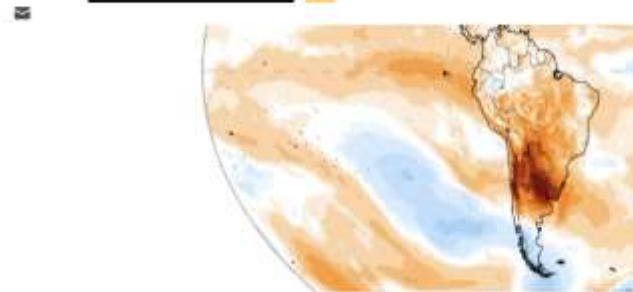


CHINA

One of 2023's most extreme heatwaves is happening in the middle of winter

f Matthew Patterson, Postdoctoral Research Assistant in Atmospheric Physics, University of Oxford

Twitter Fri, 4 August 2023 at 4:12 pm BST 4-min read



Temperature anomaly on Wednesday August 2 2023. Red areas of Chile and northern Argentina are much hotter than the long-term average for this time of year. ClimateReanalyzer.org. CC BY-SA

S AMERICA

“Species extinction, widespread disease, unliveable heat, ecosystem collapse and cities menaced by rising seas will become painfully obvious **before a child born today turns 30**”

2021: IPCC Science Report

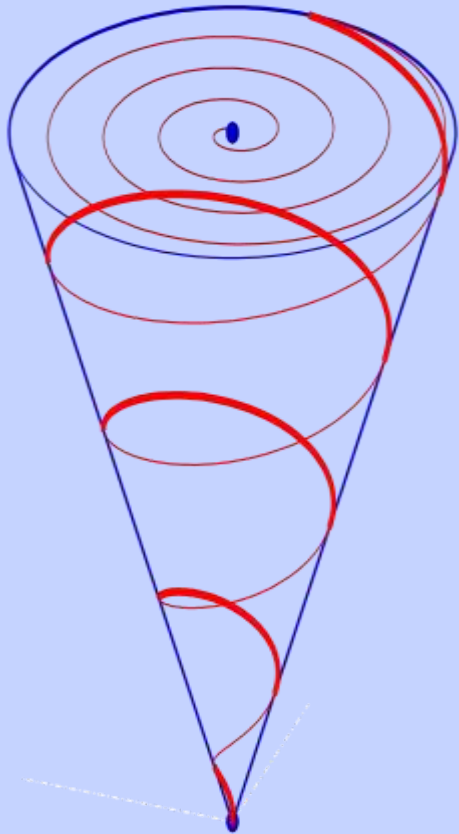
“species losses become comparable to current direct human impacts within a century and **culminate in a mass extinction** rivaling those in Earth’s past”

Science April 2022 DOI:
10.1126/science.abe9039

1.1°C clearly unsafe

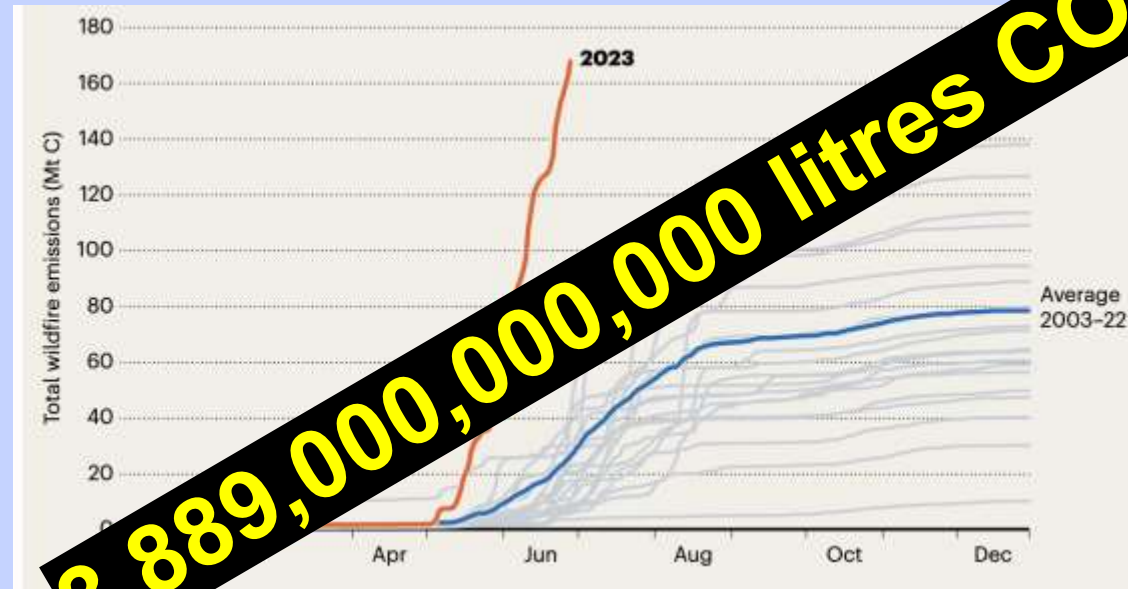
**SO WHAT HAPPENS AT
TWICE THAT?**

Now +VE FEEDBACK X 10

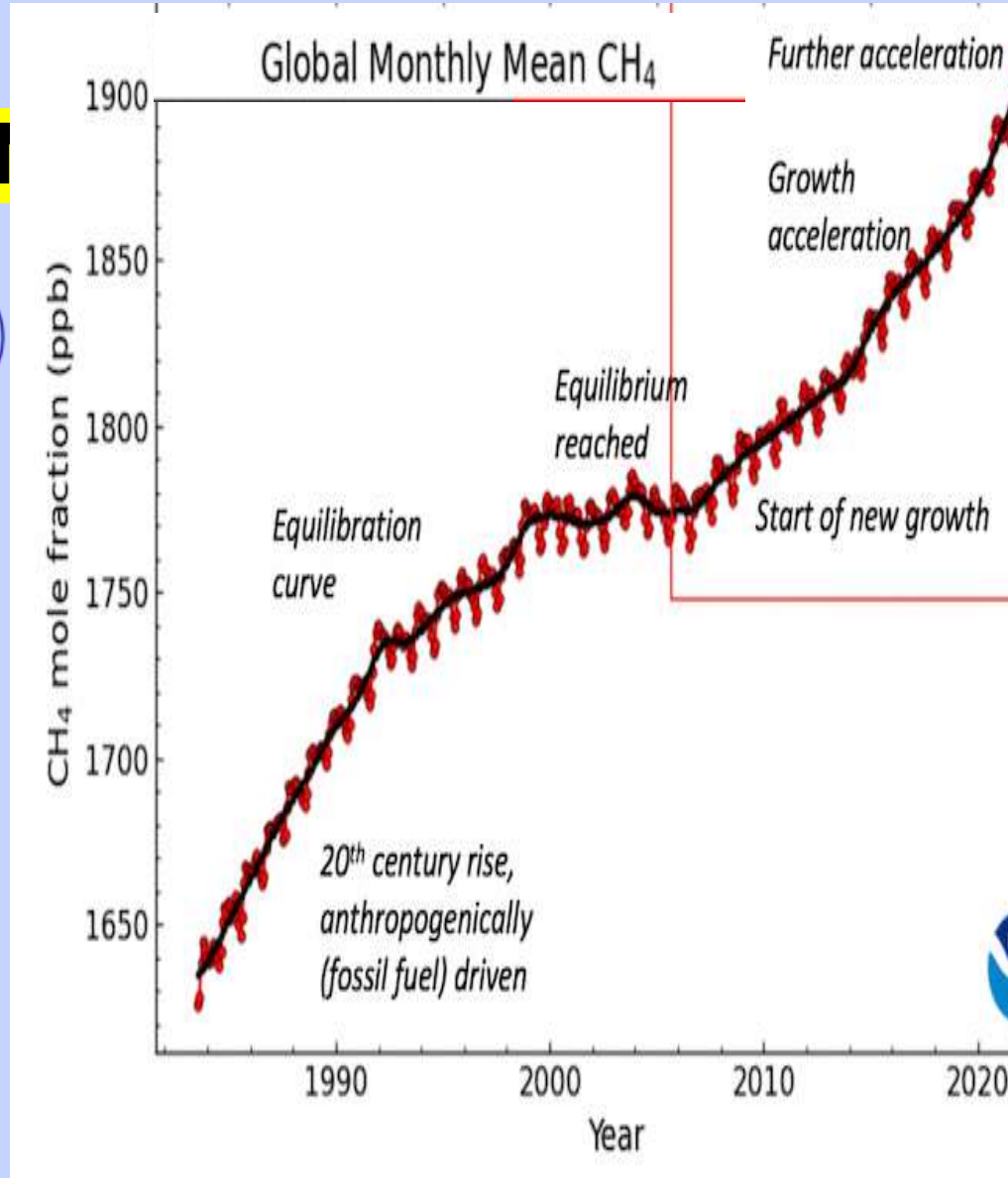
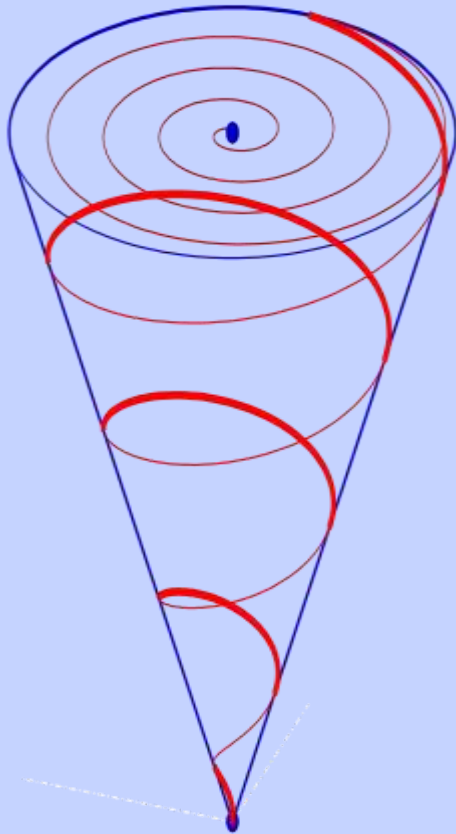


CO₂

CO mops up -OH, which would clear methane



By July 2023: Canadian Fires Alone



could clear methane

Carbonate Rocks
 melting hydrates
 forming wetlands

now

Amazon rainforest now emitting more CO₂ than it absorbs

Cutting emissions more urgent than ever, say scientists, with forest producing more than a billion tonnes of carbon dioxide a year



16 soccer pitches lost to fire every minute

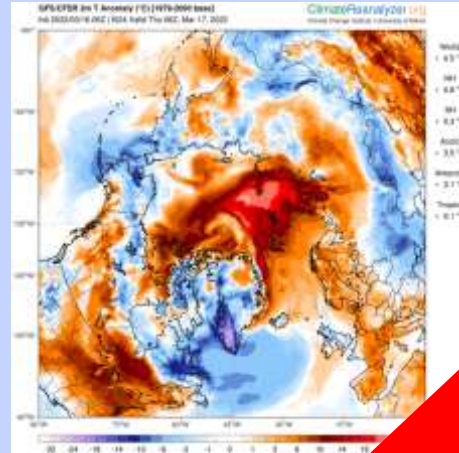
[Forestwatch, Aug 2022]

Worse Still

BINARY CLIMATE STATES



March 21st 2022



June 2022
PLUS 32.5°C in Arctic Circle
(average is 13°C)

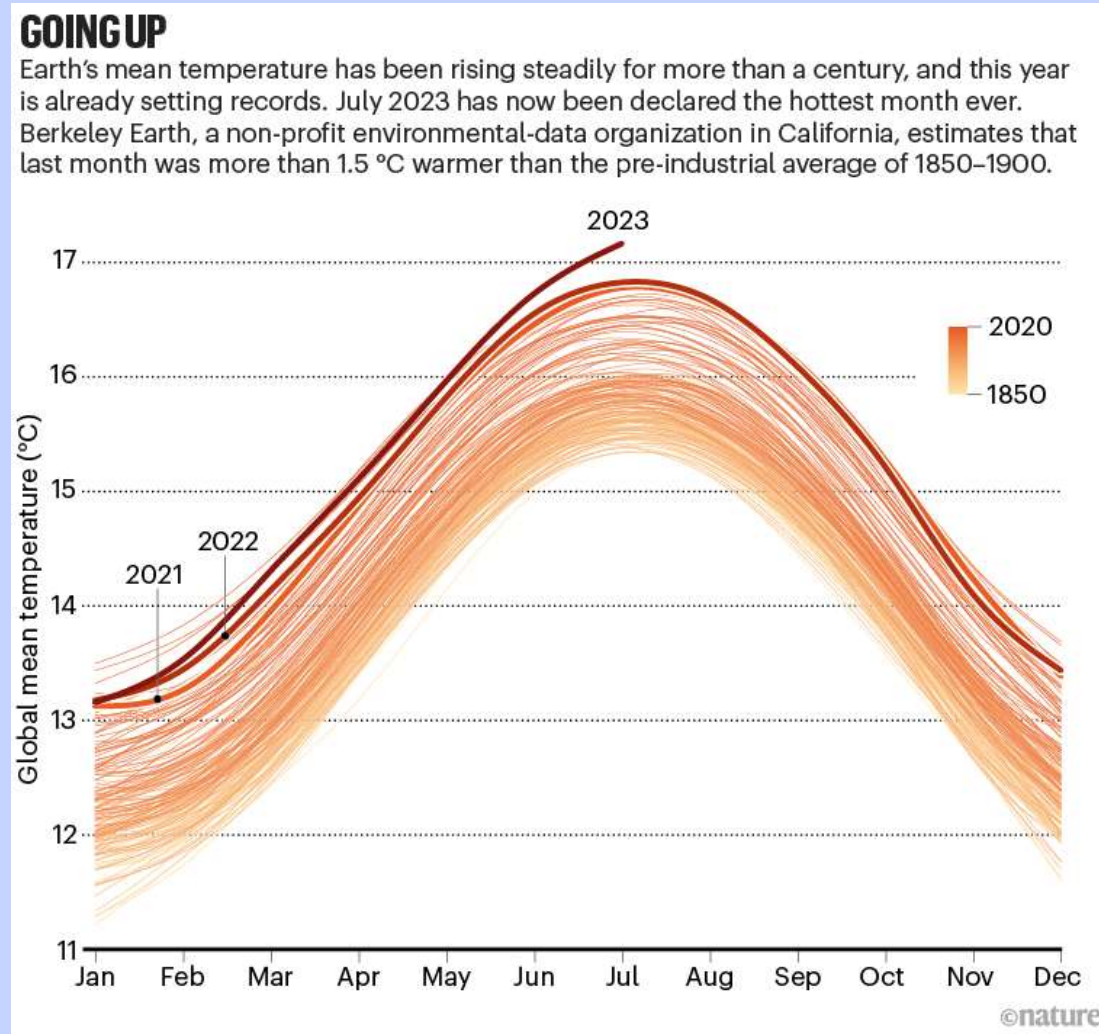
Heatwaves at
climate scientists
poles alarm

47

Antarctic areas reach 40°C above normal at same time as north pole
regions hit 30°C above usual levels

Surface Temperature Tipping June 2023

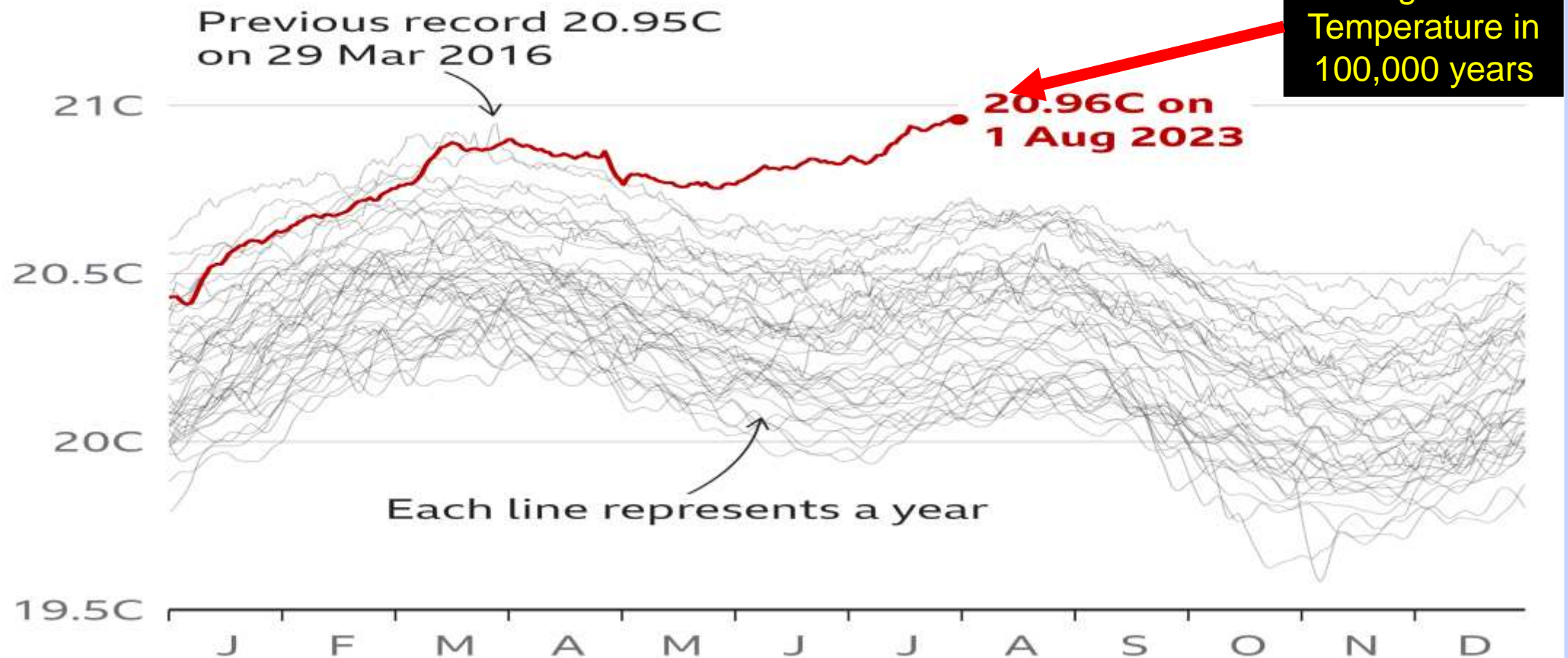
July 2023: Hottest month on Earth on record



Ocean Warming Tipping

Ocean temperatures highest on record

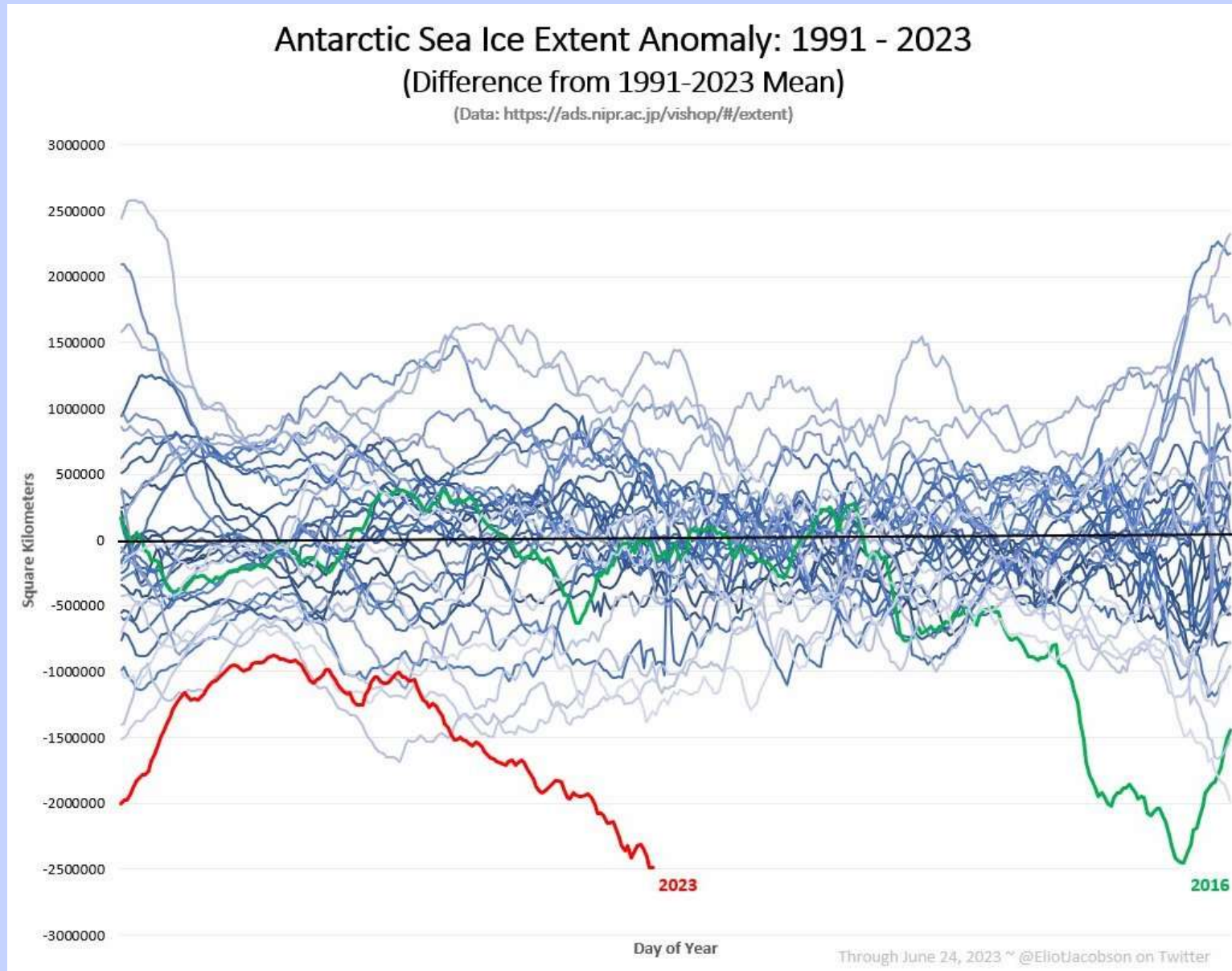
Daily average sea surface temperature between 60° North and 60° South, 1979-2023



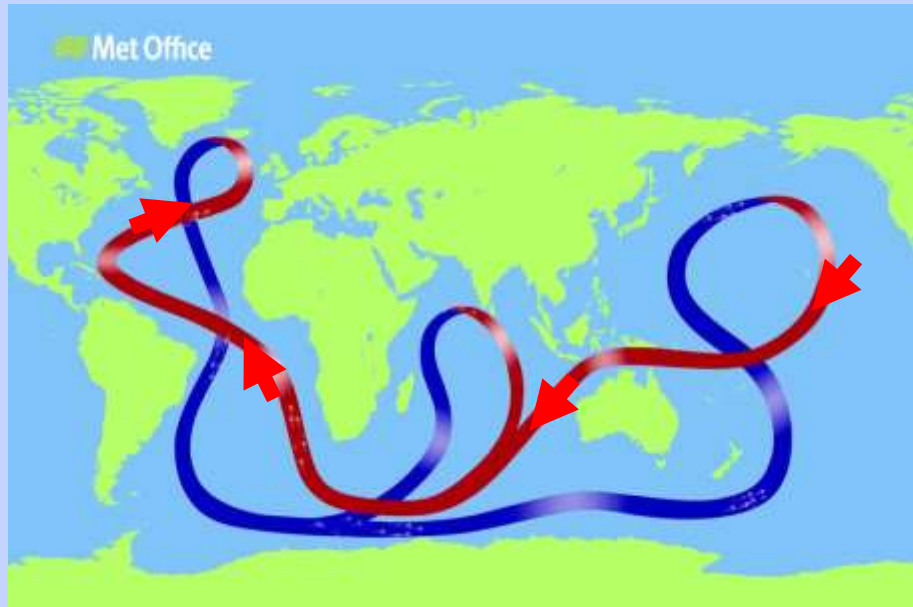
Source: ERA5, C3S/ECMWF

BBC

Antarctic Tipping 2023



The Atlantic Meridional Overturning Circulation (AMOC)



- Collapse -> **severe global impacts**
- **Now** at “a point close to a critical transition.”

“continued business-as-usual growth of GHG likely will cause shutdown of the AMOC and SMOC **by the middle of this century.**”

Could be as early as 2025.

Nat. Clim. Chang. **11**, 680–688 (2021)

Atmos. Chem. Phys., 16, 3761–3812, 2016

Nat Comm **14**, 4254 (2023)

SO OTHERS WILL DO IT.

**WHY IS IT
DOWN TO
ME ?**

“Any further delay in global
action will miss the rapidly closing
window of opportunity to secure a liveable future.”

COP27
Aim to peak in 2025 removed

Healthcare

- 5.2% of emissions

BUT

- 11.7% of GDP



OK.

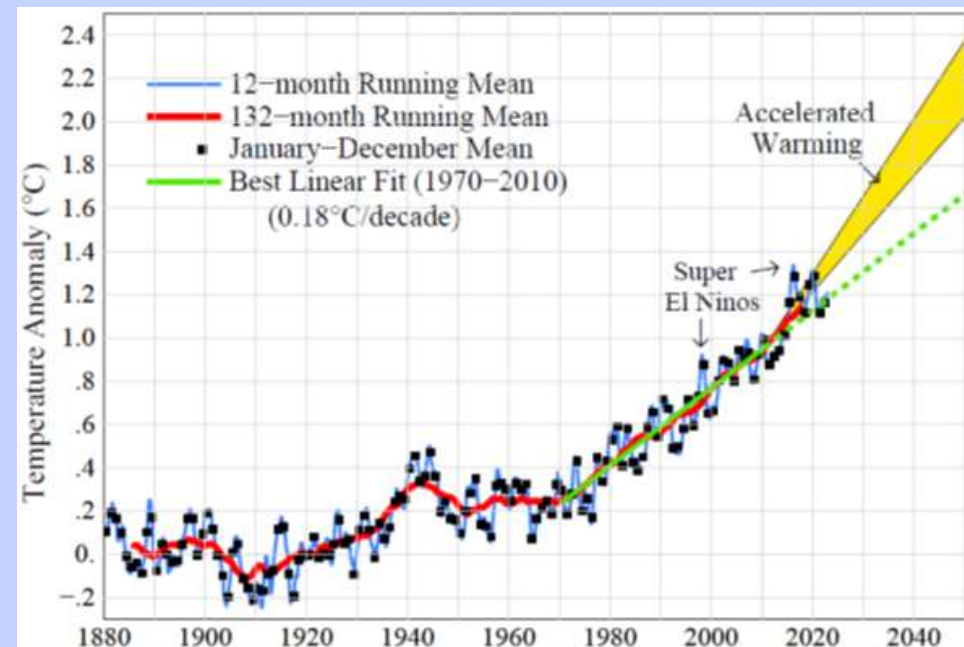
**WHAT DO I
DO RIGHT
NOW**

A large, bold, black question mark is positioned to the right of the text "WHAT DO I DO RIGHT NOW". It is a simple, sans-serif style question mark.

We Have Far Less Time Than We Thought

"Aerosol cooling has declined since 2010.....Global warming in the pipeline is greater than prior estimates."

Global warming in following decades
50-100% greater than in the prior 40
years.





Assessing the size and uncertainty of remaining carbon budgets

Received: 5 August 2022

Robin D. Lamboll¹, Zebedee R. J. Nicholls^{2,3}, Christopher J. Smith^{3,4,5},
Jarmo S. Kikstra^{1,2,6}, Edward Byers³ & Joeri Rogelj^{1,3,6}

Accepted: 20 September 2023

“The remaining carbon budget for a 50% chance of keeping warming to 1.5 °C is around 250 GtCO₂ as of January 2023, equal to around six years of current CO₂ emissions.

Assessing the size and uncertainty of remaining carbon budgets

Received: 5 August 2022

Robin D. Lamboll¹, Zebedee R. J. Nicholls^{2,3}, Christopher J. Smith^{3,4,5},
Jarmo S. Kikstra^{1,2,6}, Edward Byers³ & Joeri Rogelj^{1,3,6}

Accepted: 20 September 2023

“The remaining carbon budget for a 50% chance of keeping warming to 1.5 °C is around 250 GtCO₂ as of January 2023, equal to around six years of current CO₂ emissions.

So we need to have stopped all GHG emissions by end 2028.

That means

**HALVING EMISSIONS
EVERY YEAR FROM NOW**

**(or 20% of current
amount, done every year)**

NICE CAN CHANGE ALL OF THIS, ALONE

- Make emissions an integral part of assessing any new technology or treatment.
- “Will this reduce emissions by 100% overall by 2030?”
- If NO- NO APPROVAL

OVER TO OUR PANELLISTS...
AND TO YOU!!