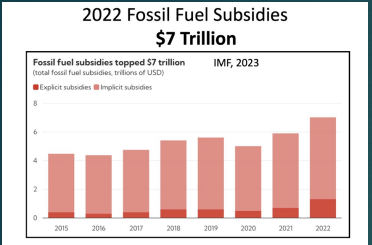


Communicating Climate Change Science to Drive Political Will

“We are committing Earth, and ourselves, to climate chaos for thousands of years” (NOAA, Oct. 2023, The power of greenhouse gases)

“Any further delay in concerted global action will miss a brief and rapidly closing window to secure a liveable future” (IPCC AR6 WG2)



IPCC calls for immediate decline of global emissions

U.N. COP 26, Oct. 2021

“Global warming of 1.5°C and 2°C will be exceeded unless immediate, rapid, and large-scale reductions in greenhouse gas emissions, especially of carbon dioxide and methane occur”

(Keynote address by the IPCC Chair Hoesung Lee at the ceremonial opening of COP26 Glasgow, 31 Oct. 2021)

COP 26

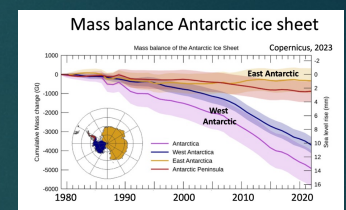
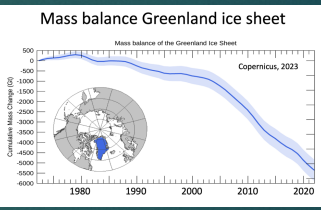
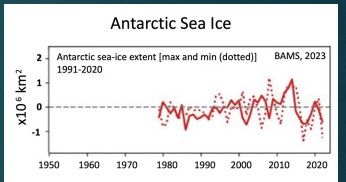
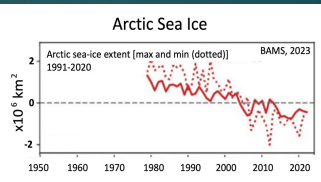
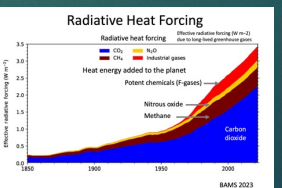
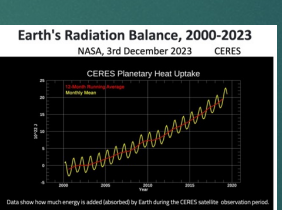
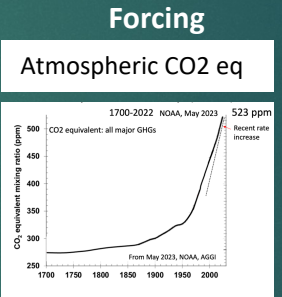
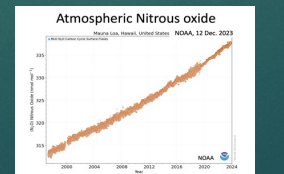
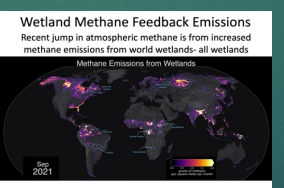
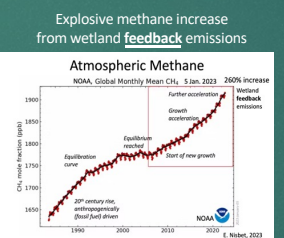
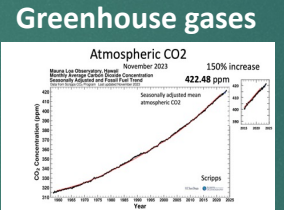
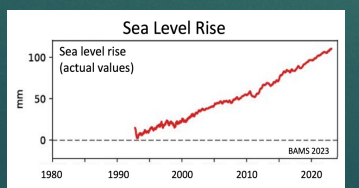
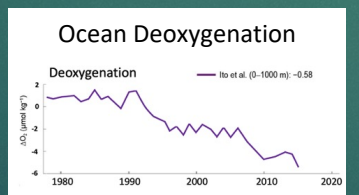
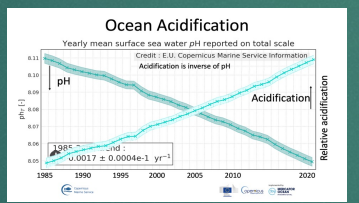
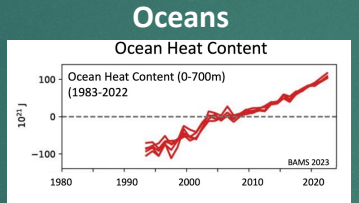
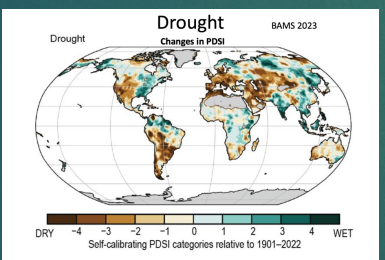
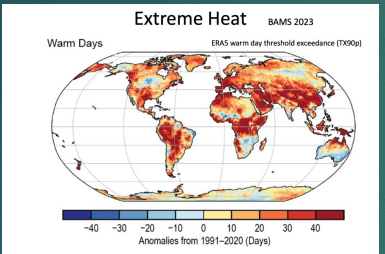
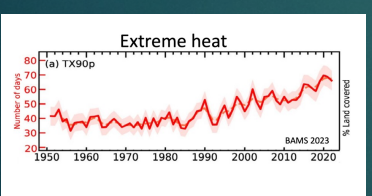
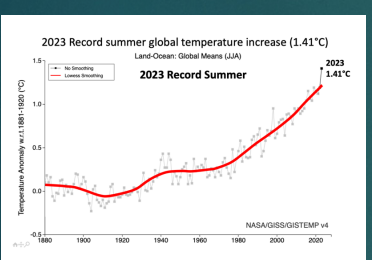
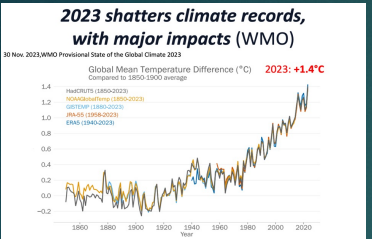
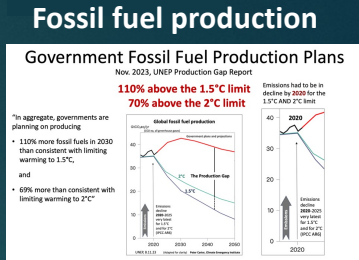
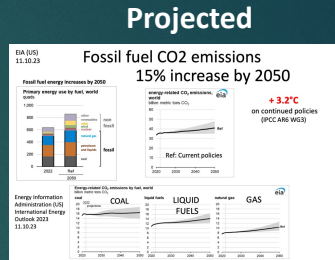
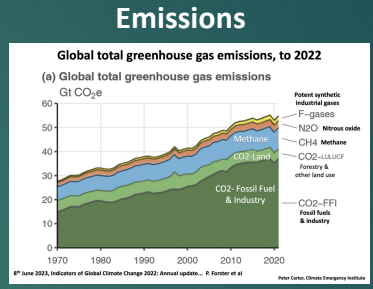
IPCC calls for immediate decline of global emissions

U.N. COP 28, Nov. 2023

“Without immediate and deep emissions reductions across all sectors, we will not meet the goals of the Paris Agreement”

(Keynote address by the IPCC Chair Jim Skea at the ceremonial opening COP28 Dubai, 30 November 2023)

COP 28



Permafrost Carbon Feedback Emissions

November 2023, State of the Cryosphere 2023

Our message -- the message of the Cryosphere -- is that **this insanity cannot and must not continue**. 2°C -- and even 1.5°C -- is too high to prevent extensive permafrost thaw and resulting CO₂ and methane emissions that will cause temperatures to continue to rise, even once human emissions reach zero. These emissions are irreversibly set in motion and will not slow for 1-2 centuries.

Image: Permafrost carbon emissions in a changing Arctic. Kimberley R. Miner et al, January 2022

NOAA, Arctic Report Card, 2016

CONCLUSION All indicators are record high, increasing at record rates – trending to biosphere collapse, but governments are still pushing fossil fuels.

RECOMMENDATION For our survival, national science academies call for emissions decline and termination of fossil fuel subsidies on immediate basis.