

#### CLIMATE CHANGE: CAUSES, CONSEQUENCES & SOLUTION

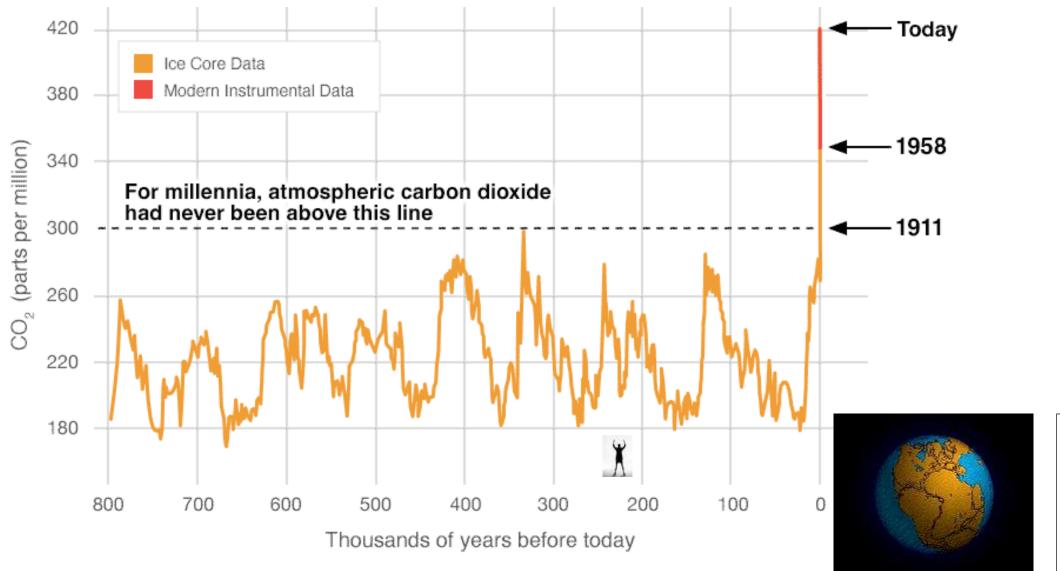


Professor Richard Allan <u>@rpallanuk</u> r.p.allan@reading.ac.uk EV Café Webinar 'The case for EV's: People, Planet, Profit', 18th October 2023

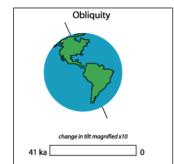


### University of Reading

### The climate has always changed. But...

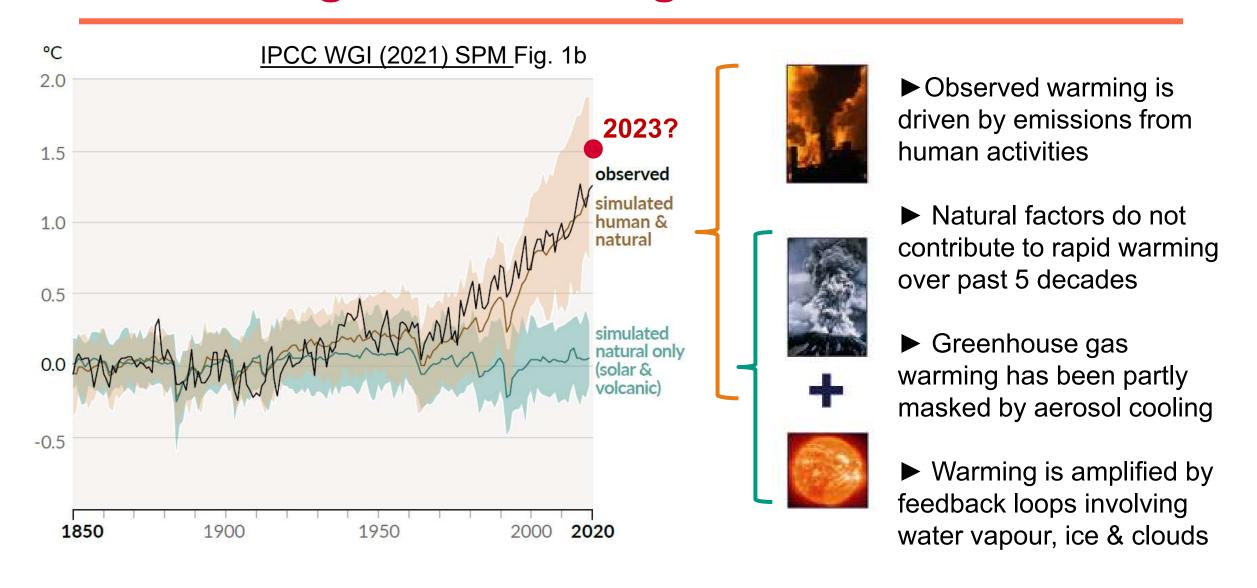






# It is indisputable that human activities are causing climate change



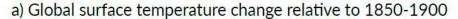


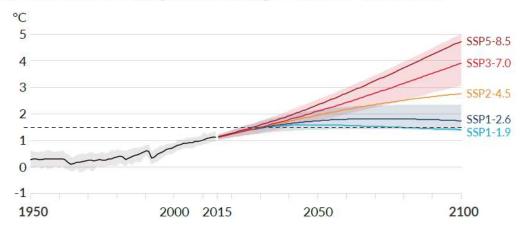
### Some changes in the climate system are irreversible but many changes can be slowed or stopped by limiting warming

7<sub>m</sub>

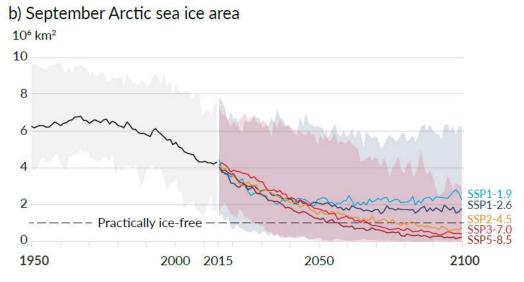
5m

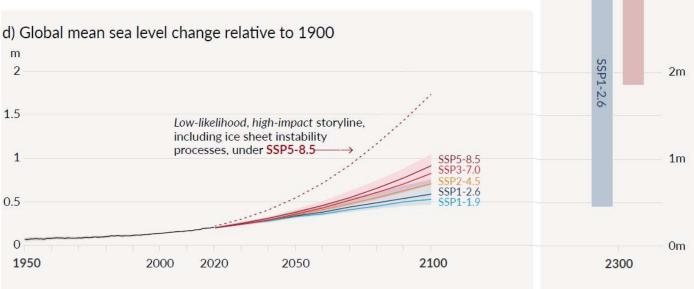
3m





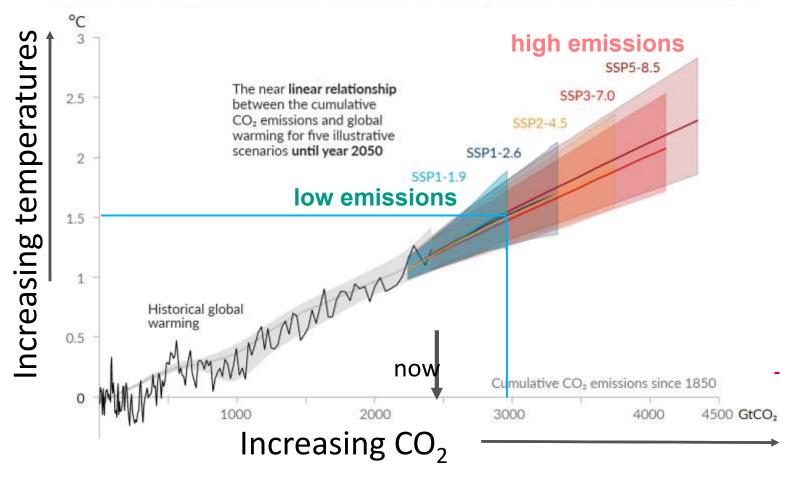
Global warming of 1.5°C and 2°C will be exceeded during the 21st century unless deep reductions in CO<sub>2</sub> and other greenhouse gas emissions occur in the coming decades High emissions [IPCC (2021) WG1 SPM]





Low emissions

## Limit Carbon Emissions to Avoid Dangerous Climate Change



[IPCC WGI 2021 SPM]



