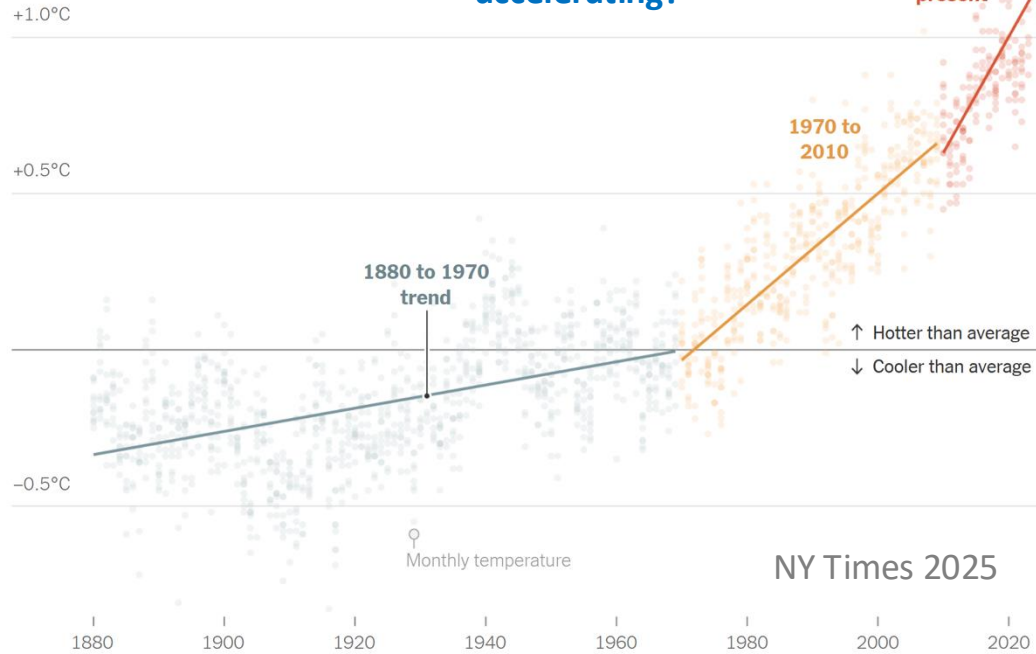


# Session A-1: What are models good at, and where are they deficient?

**Erich Fischer**  
**ETH Zurich**

Global average temperature compared with the middle of the 20th century



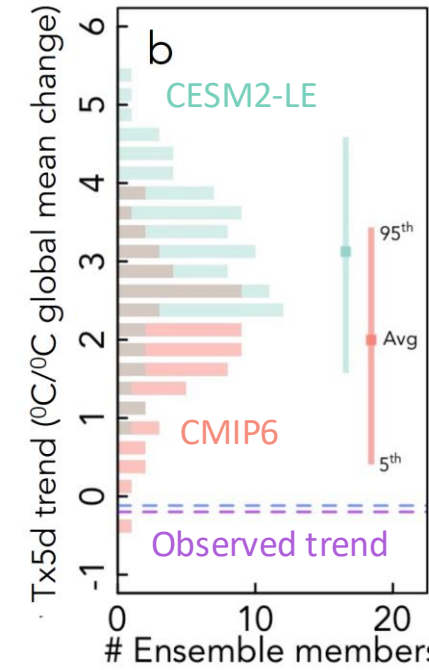
NY Times 2025

Source: NASA Goddard Institute for Space Studies · Note: Data available through May 2025. Anomalies relative to the average temperature between 1951 and 1980. · The New York Times

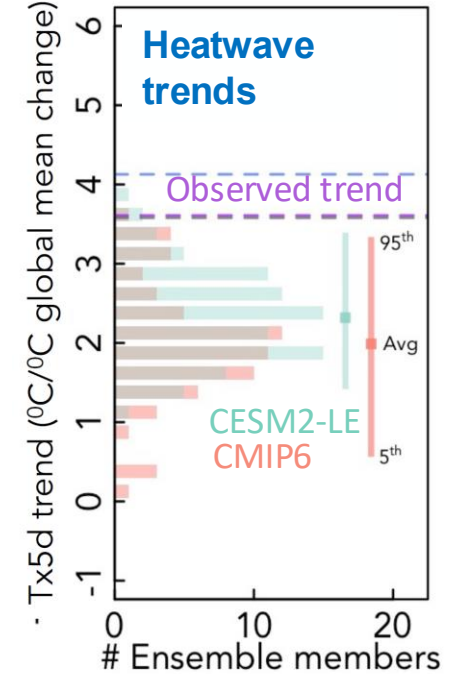
## Global warming: is it rapidly accelerating?

## Heatwave intensity trends

US Midwest

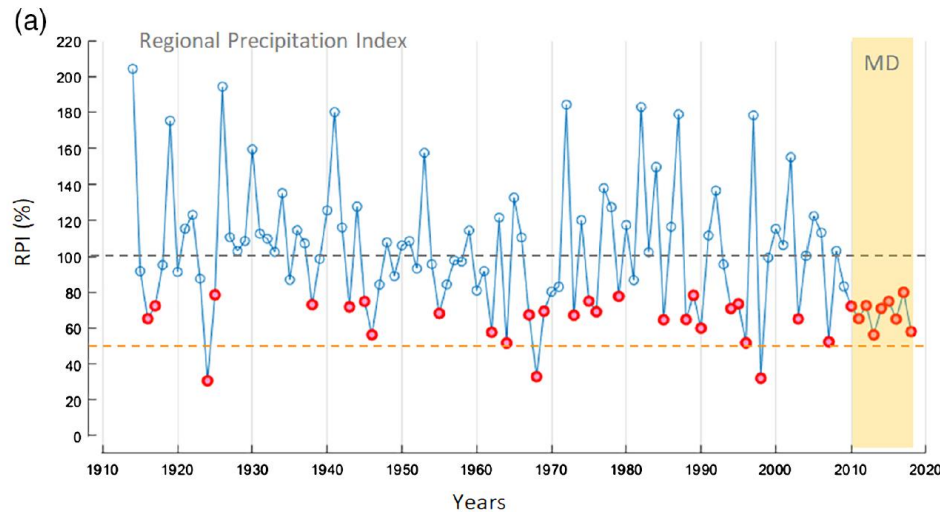


W Europe

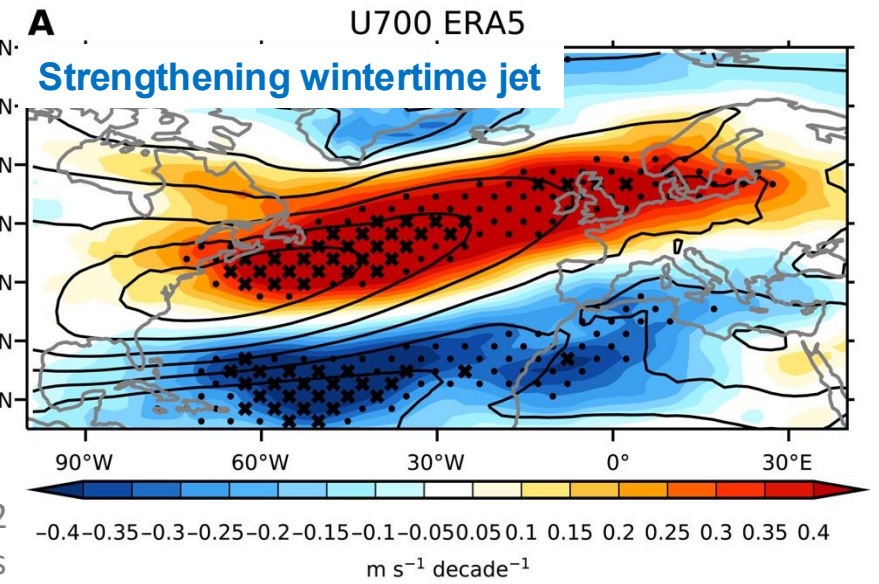


Singh et al., 2023, *Comm. Earth & Environ*

## Multi-year drought in Chile: variability and/or climate change?



Garreaud et al. 2019  
*Internat J. Climatol.*



Blackport and Fyfe 2022  
*Science Advances*