

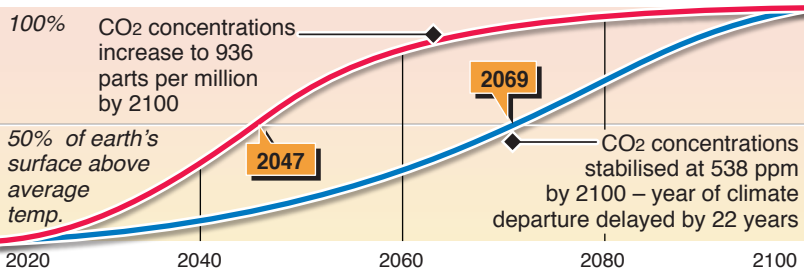
# Year of climate departure imminent

**Climate departure** – when the average surface temperature for each year exceeds historical averages from 1860-2005 – is predicted to start in the tropics and spread to higher latitudes. Earth's mean climate could reach the tipping point by 2047 if greenhouse gas emissions continue unabated

## GLOBAL YEAR OF CLIMATE DEPARTURE

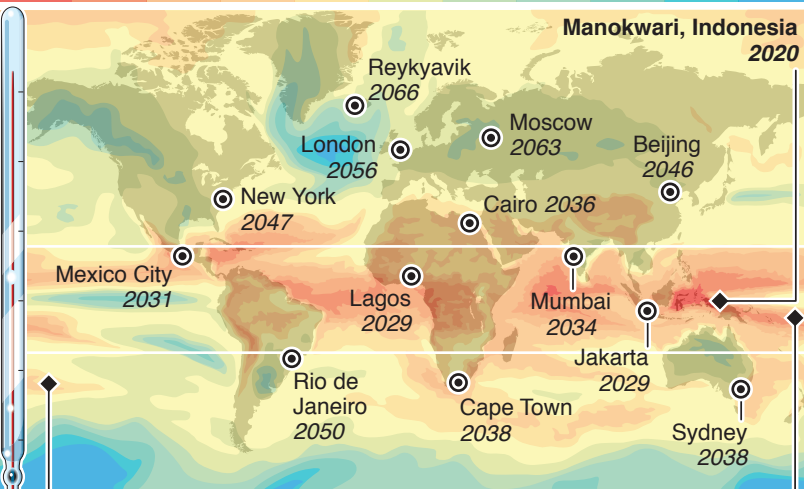
— Business-as-usual scenario

— Aggressive cuts to GHG emissions



## REGIONAL CLIMATE DEPARTURE YEAR IF NO CHANGE TO GHG EMISSIONS

2020 2040 2060 2080 2100



Acidity of ocean departed from historical norm in 2008

Less variable temperatures in tropics mean even small change can take area outside historical average

**Average temperature could rise to over 23°C**

Sources: Nature, MoraLab, University of Hawaii

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