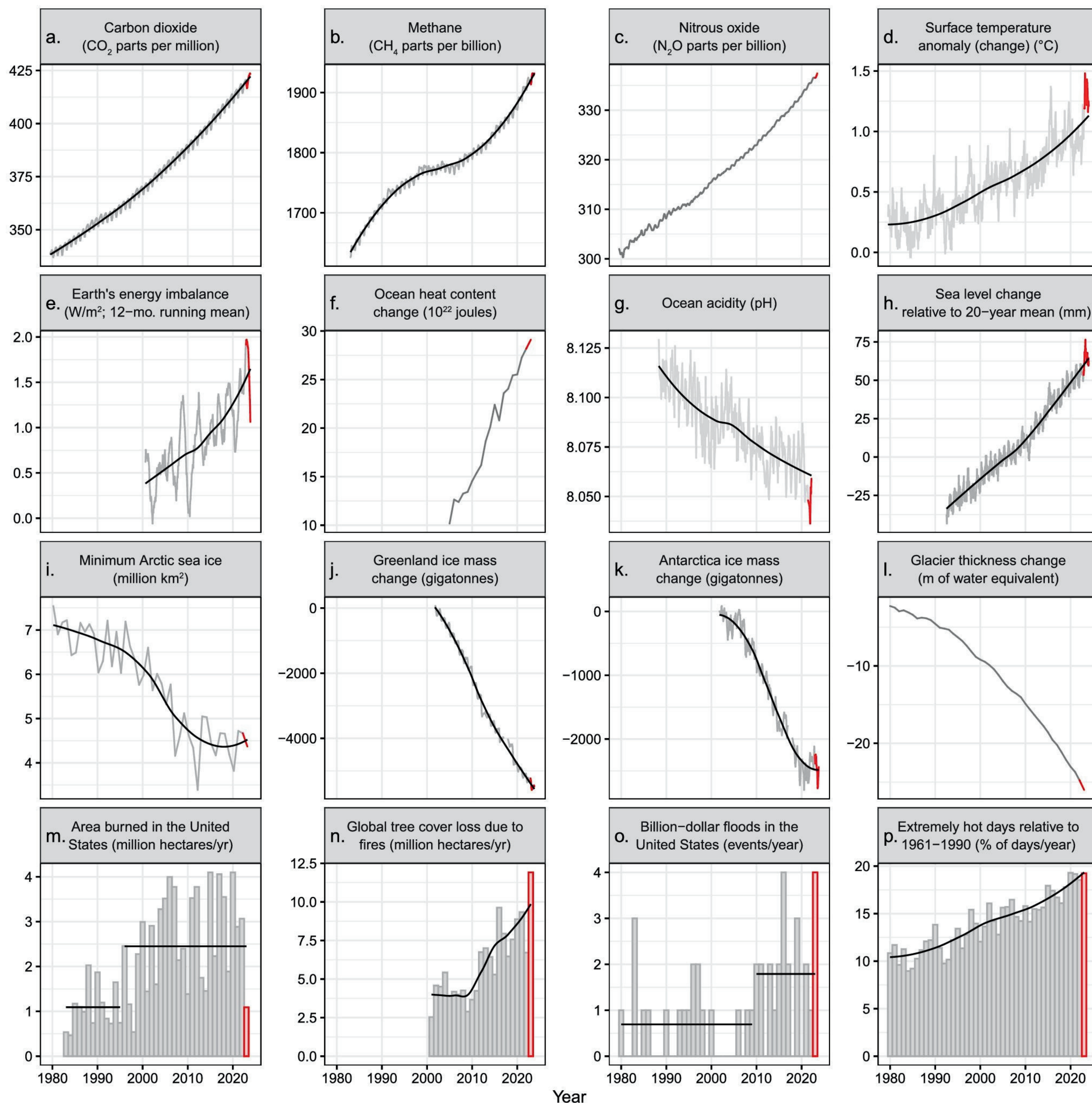
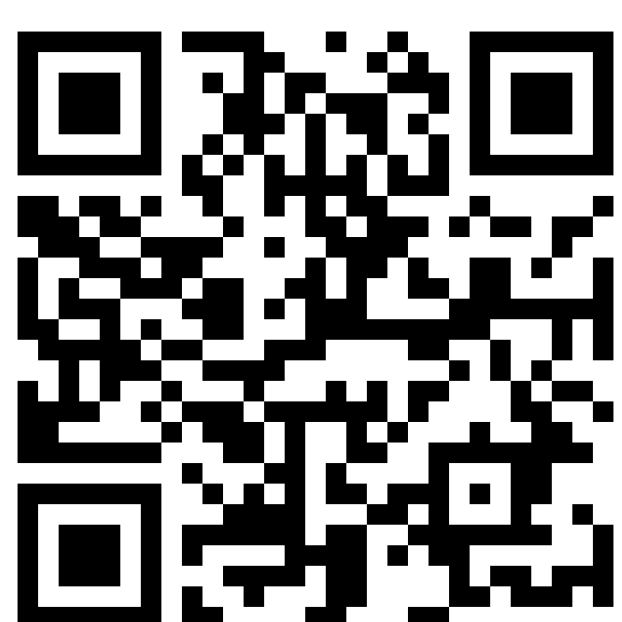


# The 2024 state of the climate report: Perilous times on planet Earth

Ripple, William J., et al. "The 2024 state of the climate report: Perilous times on planet Earth." *BioScience* (2024): biae087.



**Timeseries of climate-related responses.** The data obtained before and after the publication of Ripple and colleagues (2023a) are shown in gray and red (dark gray in black and white), respectively. For area burned (m) and billion-dollar flood frequency (o) in the United States, the black horizontal lines show changepoint model estimates, which allow for abrupt shifts (see the supplement). For other variables with relatively high variability, local regression trendlines are shown in black. The variables were measured at various frequencies (e.g., annual, monthly, weekly). The labels on the x-axis correspond to midpoints of years. Billion-dollar flood frequency (o) is influenced by exposure and vulnerability in addition to climate change.



<https://doi.org/10.1093/biosci/biae087>