

Supplementary Materials:

Review

Critical Review on Radiative Forcing and Climate Models for Global Climate Change since 1970

Qing-Bin Lu

Department of Physics and Astronomy, Department of Biology and Department of Chemistry, University of Waterloo, 200 University Avenue West, Waterloo, ON N2L 3G1, Canada; qblu@uwaterloo.ca

The **Supplementary Information** includes Figures S1-S5.

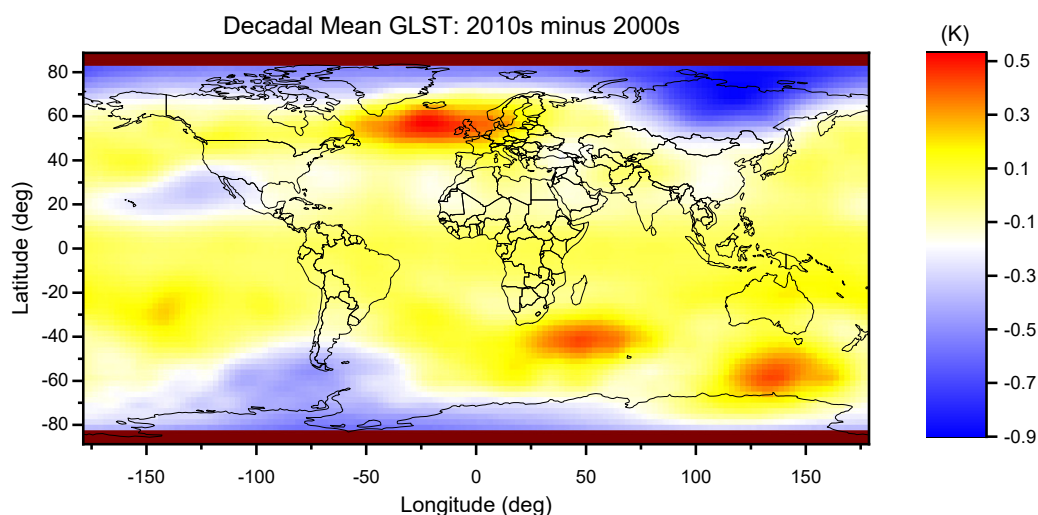


Figure S1. Decadal mean global lower-stratospheric temperature (GLST) difference map of the 2010s (2010–2020) minus the 2000s (2000–2010). Adapted from Lu [14].

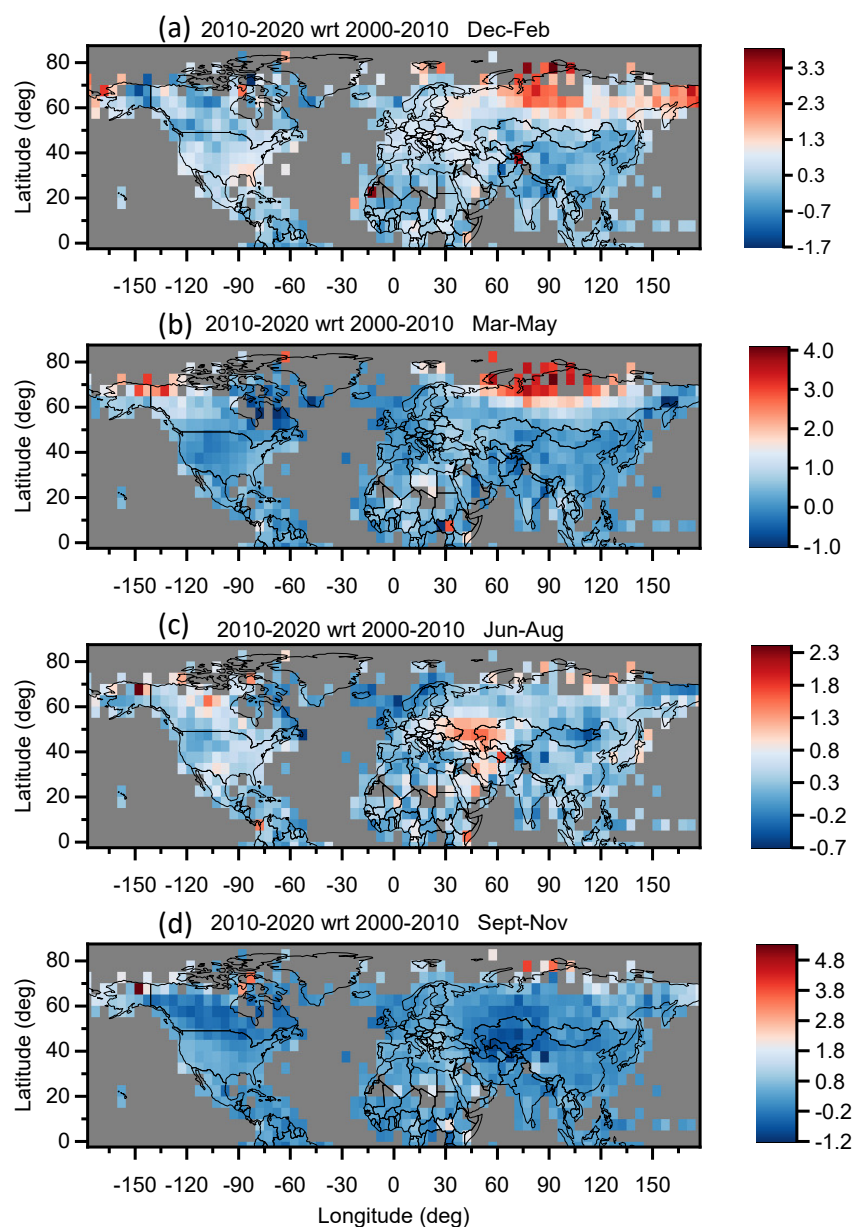


Figure S2. (a–d): Maps for seasonal NH land surface air temperature differences of 2010–2020 minus 2000–2010 in DJF (December, January and February), MAM (March, April and May), JJA (June, July and August), and SON (September, October and November). Adapted from Lu [14].

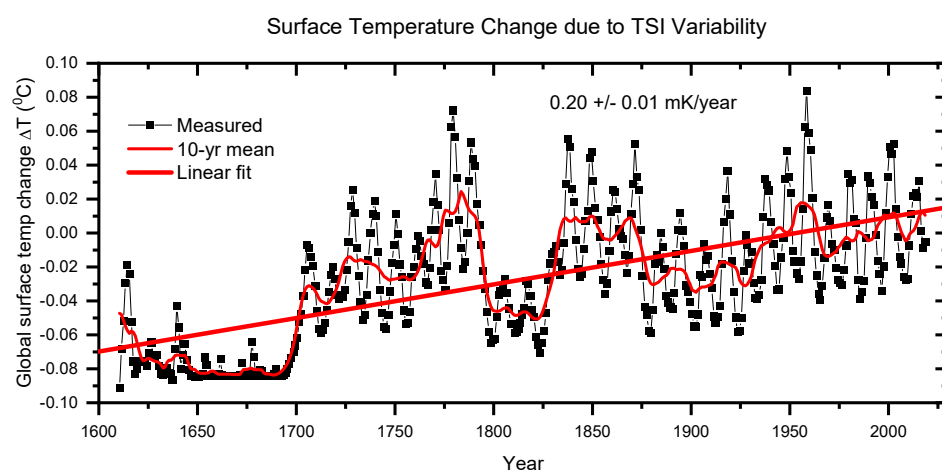


Figure S3. Global mean surface temperature change due to the change in total solar irradiance (TSI) from 1610 to 2018.

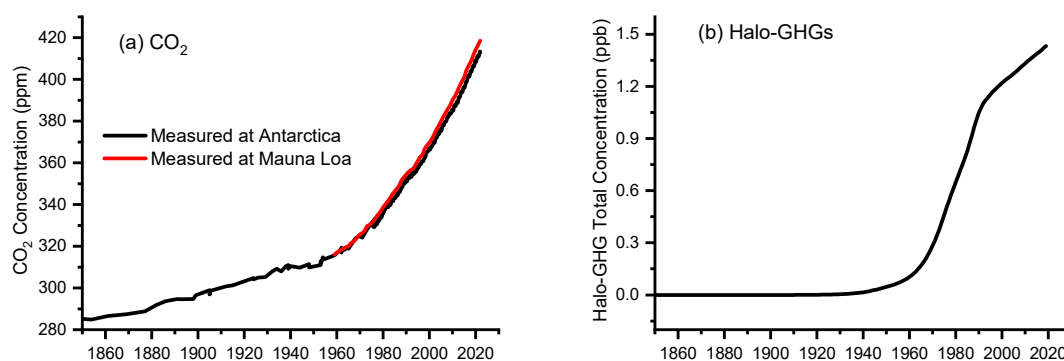


Figure S4. Measured atmospheric concentrations of CO₂ and halo-GHGs from 1850 to 2022. (a) Concentrations of atmospheric CO₂ measured from ice cores at Law Dome, Antarctica prior to 1978 and from South Pole thereafter and from flask sample measurements at Mauna Loa since 1958. (b) Tropospheric concentrations of halo-GHGs measured from global locations, as provided by the IPCC AR6.

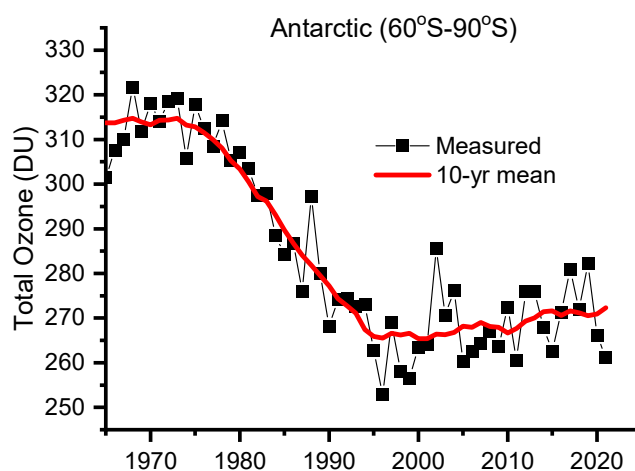


Figure S5. Measured total ozone in the Antarctic (60°S-90°S) during the period of 1964-2022, obtained from the WUODC's Zonal Mean (total) Ozone datasets from ground-based instruments.