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Supplement of

Role of the stratospheric chemistry–climate interactions in the hot climate conditions of the Eocene

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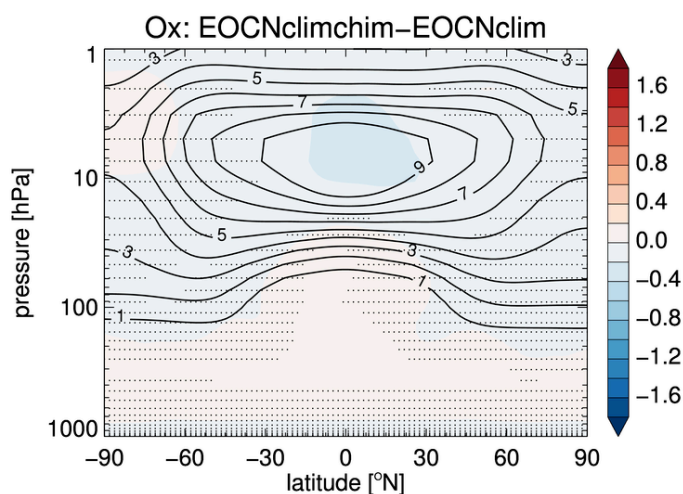


Figure S1: Annual mean differences (EOCENE experiment (EOCNclimchim) with N_2O and CH_4 changed minus EOCENE experiment (EOCNclim) with N_2O and CH_4 at preindustrial levels in the chemistry model) of zonally averaged ozone (in vmr). Color filled contours indicate that anomalies are statistically different at the 1% confidence level according to a t-test. Black contours show the EOCNclimchim climatology expressed in vmr.

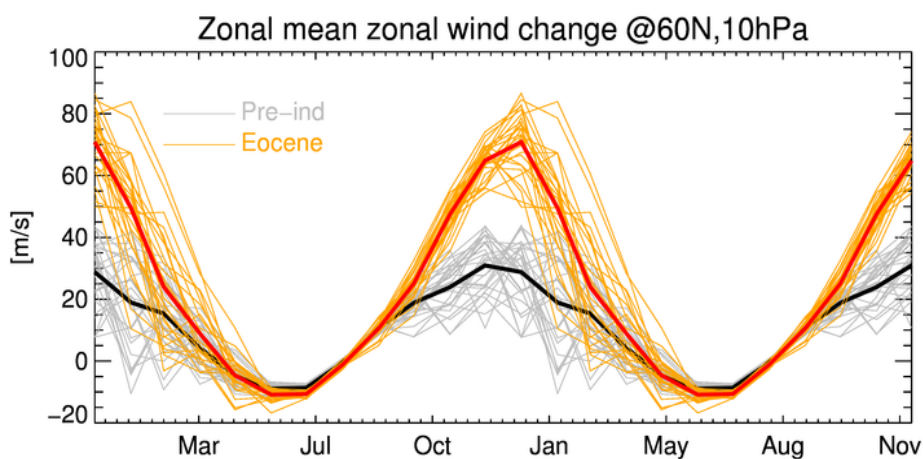


Figure S2: Time series of the monthly mean zonal-mean zonal wind at $60^\circ N$ and 10 hPa (~ 31 km) for the Eocene and preindustrial simulations. Red and black curves show the climatological averages for the Eocene and Preindustrial simulations, respectively. All simulated years are individually plotted in thin yellow (EOCENE) and grey (PREIND). Note that each year is repeated twice to visualize better the seasonal cycle.