Supplement of

Introducing new lightning schemes into the CHASER (MIROC) chemistry–climate model

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Figure S1: The comparisons between the annual global mean OMI tropospheric column NO$_2$ anomaly and the CHASER annual global mean tropospheric column NO$_2$ anomaly from 2005 to 2020. All the modelled trends displayed are simulated with interannually varying LNO$_x$ emissions (The first set of experiments).

Figure S2: The comparisons between the annual global mean OMI/MLS tropospheric column O$_3$ anomaly and the CHASER annual global mean tropospheric column O$_3$ anomaly from 2005 to 2020. All the modelled trends displayed are simulated with interannually varying LNO$_x$ emissions (The first set of experiments).