



Supplement of

Distinct surface response to black carbon aerosols

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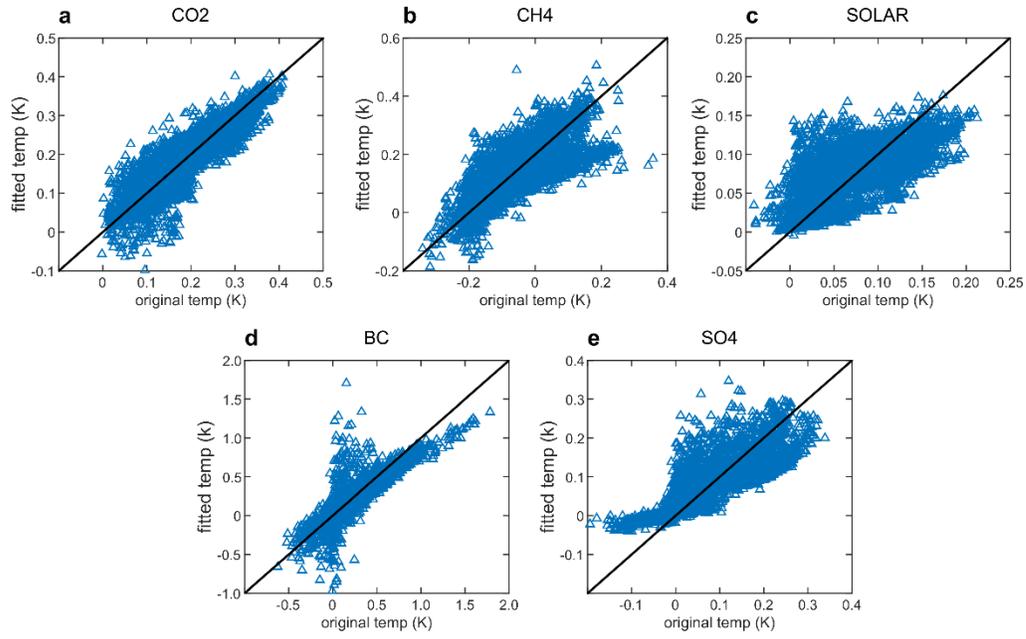


Figure S1: Comparison of original ΔT and fitted ΔT from the linear regression models. The black thick lines in each plot are one-one lines.

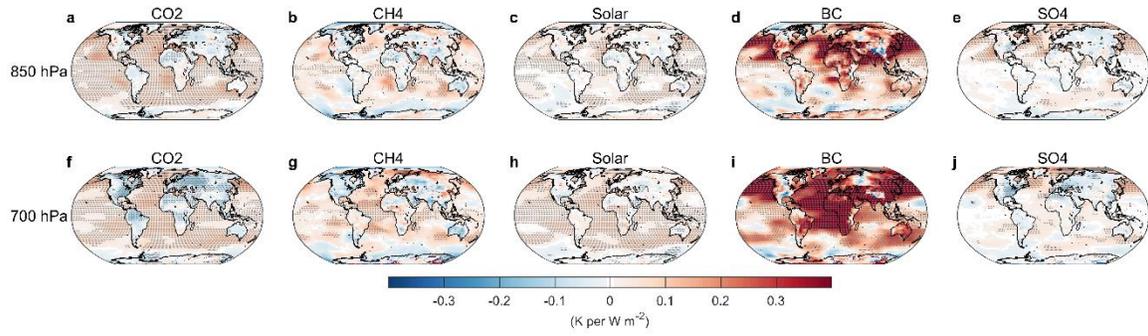


Figure S2: Same as Figure 3 in the main text, but for LTS of 850 hPa and 700 hPa. Positive anomalies indicate more stable atmosphere.

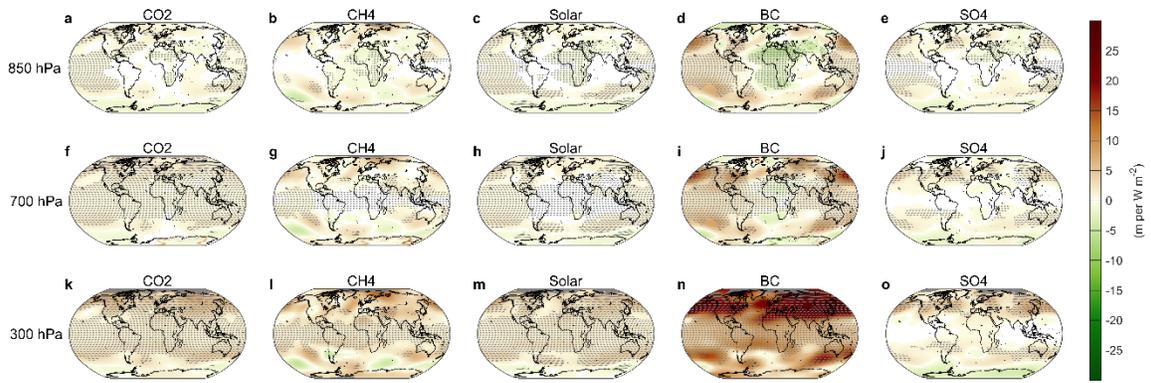


Figure S3: Same as Figure 3 in the main text, but for geopotential height changes at 850 hPa, 700 hPa and 300 hPa.

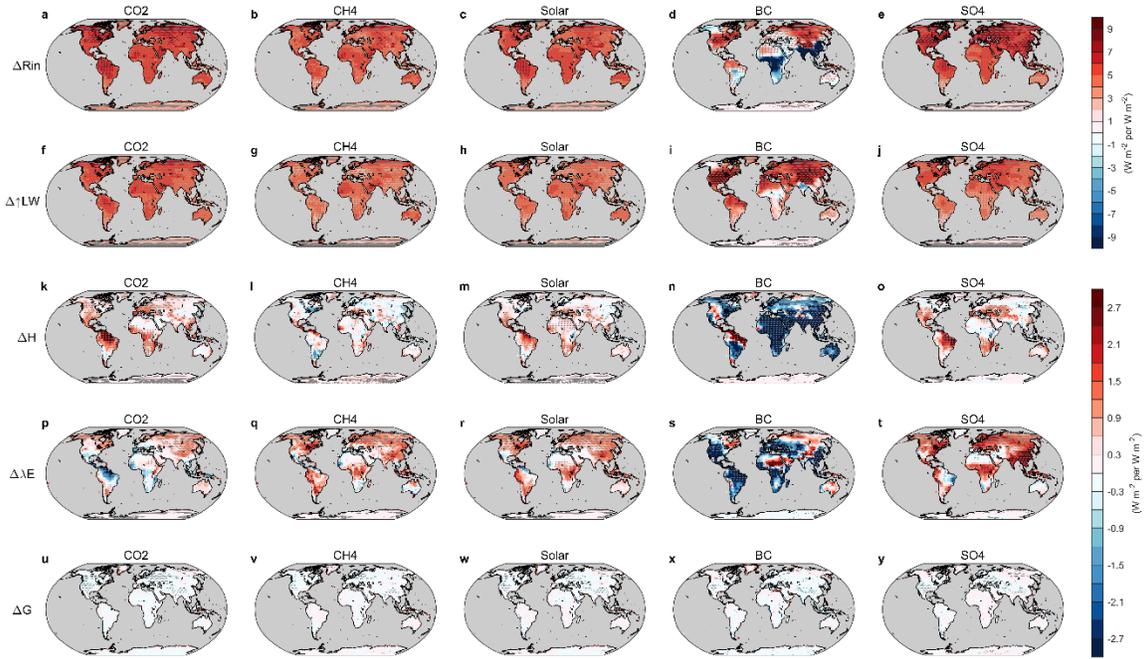


Figure S4: Same as Fig. 3 in the main text, but for the coupled simulations (near-equilibrium state).

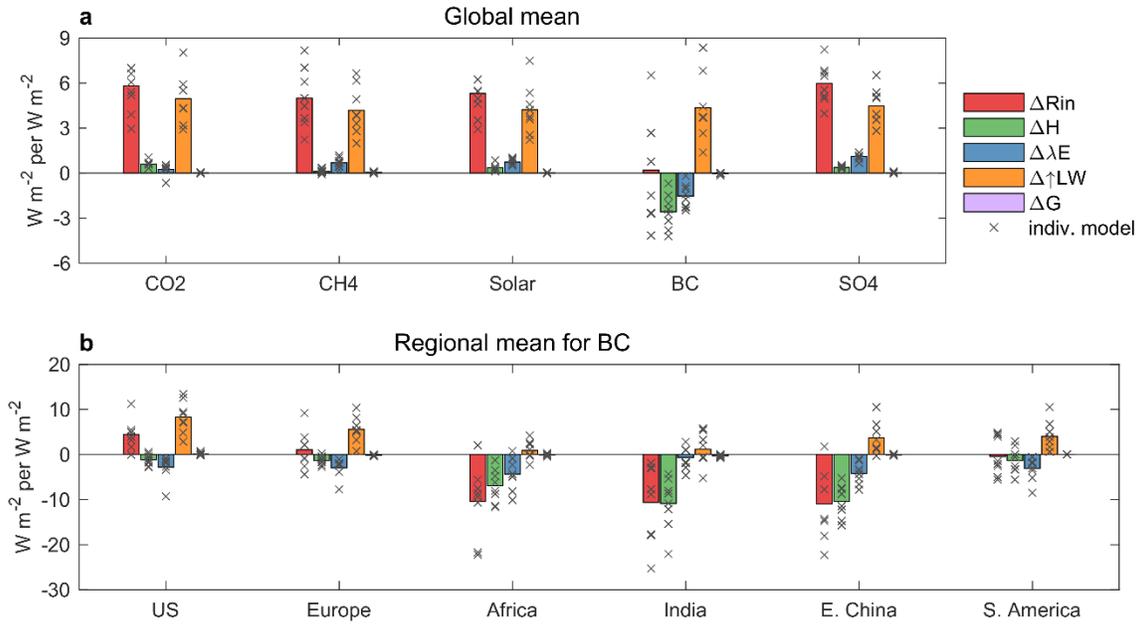


Figure S5: Same as Fig. 4 in the main text, but for the coupled simulations (near-equilibrium state).

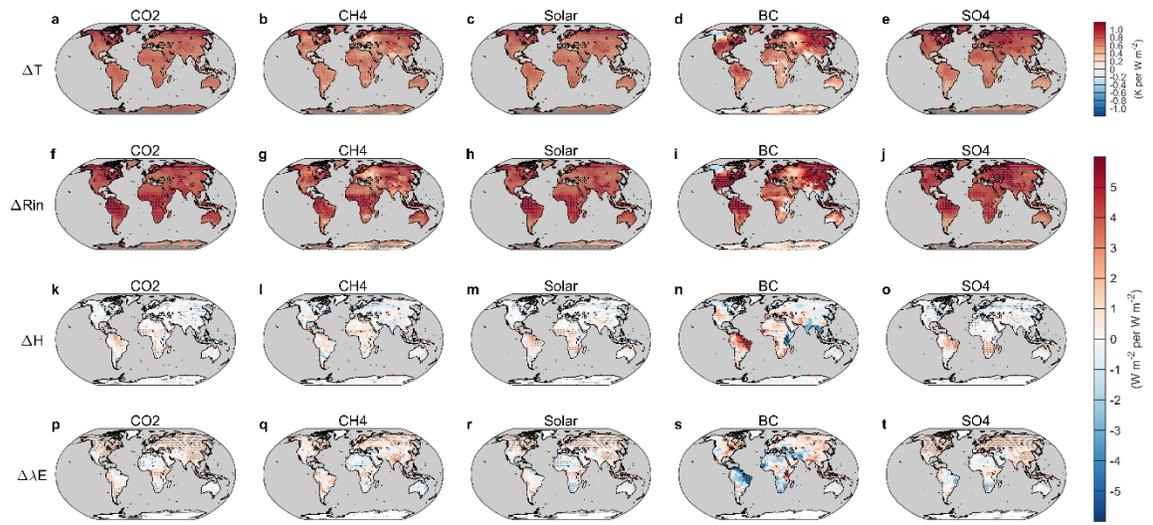


Figure S6: Same as Fig. 3 in the main text, but for the slow response, which is obtained by subtracting fast simulations from coupled simulations.