



Supplement of

Climate responses to anthropogenic emissions of short-lived climate pollutants

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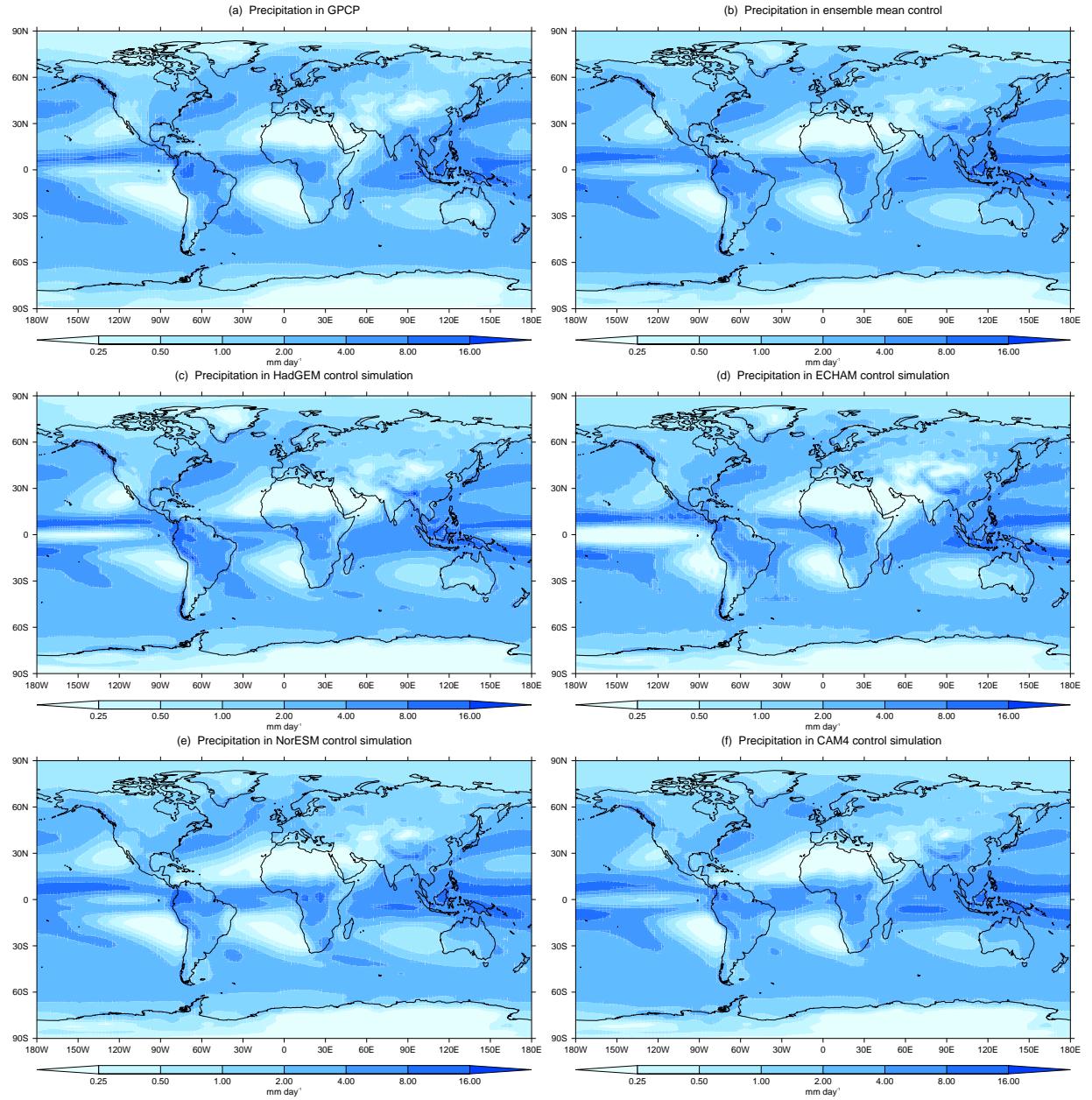


Figure S 1: Annual average precipitation. (a) GPCP observed precipitation for 2000-2010, (b) Ensemble mean, (c) HadGEM, (d) ECHAM, (e) NorESM and (f) CAM4. For the models where two control simulations were run, only the first is shown here; the precipitation in the second control members is almost identical to these.

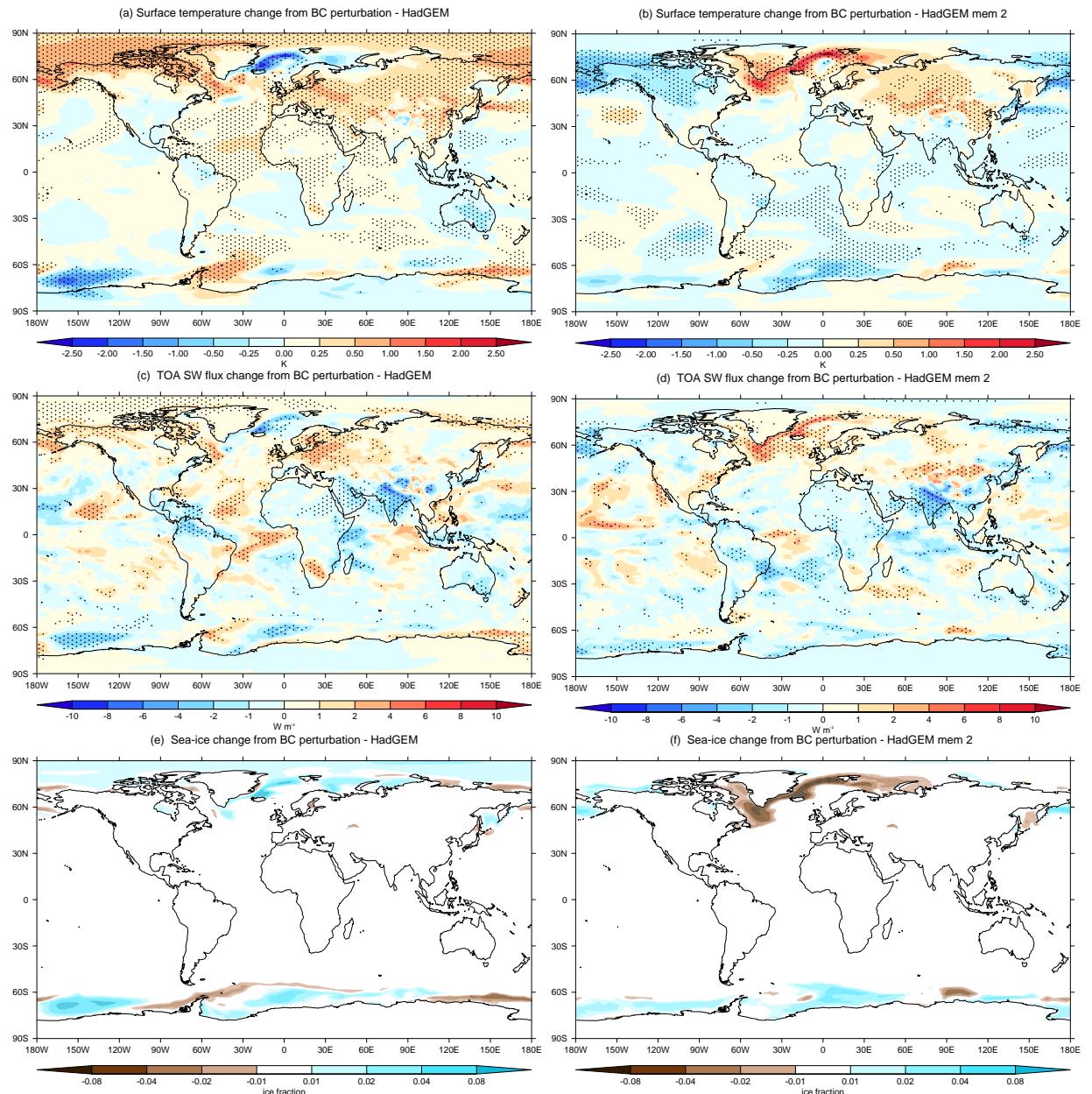


Figure S 2: Responses to BC perturbations in HadGEM member 1 (left column) and member 2 (right column). Top row: surface temperature change, middle row: TOA SW flux change, bottom row: change in sea-ice fraction.

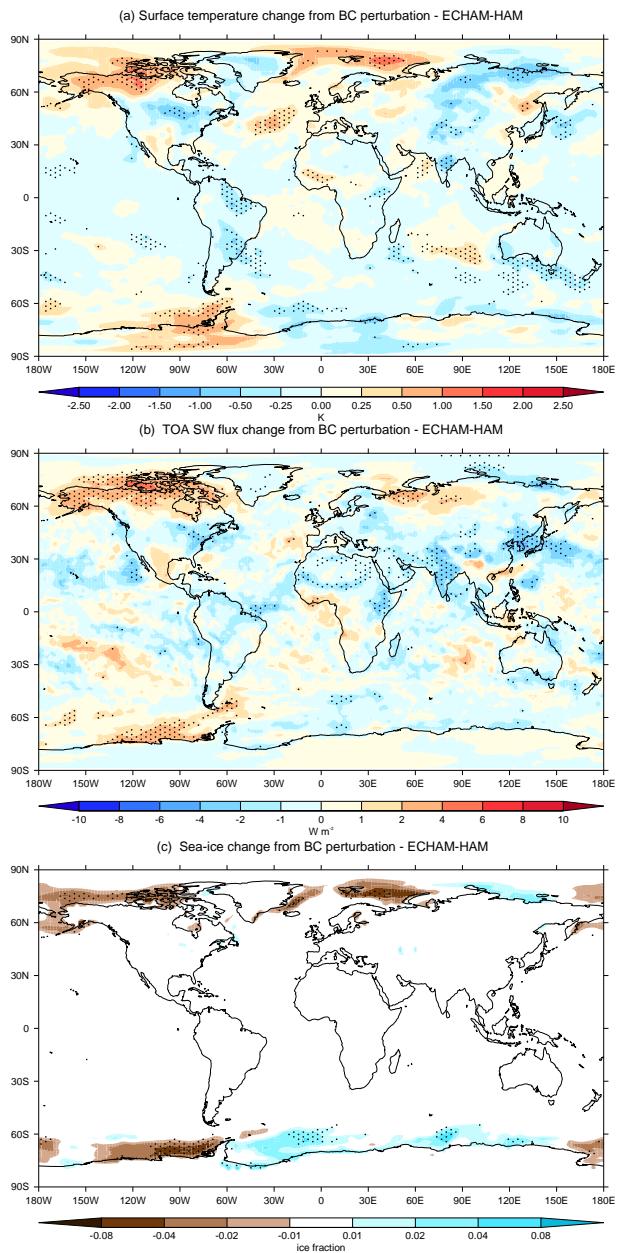


Figure S 3: Responses to BC perturbations in ECHAM-HAM. Top row: surface temperature change, middle row: TOA SW flux change, bottom row: change in sea-ice fraction.

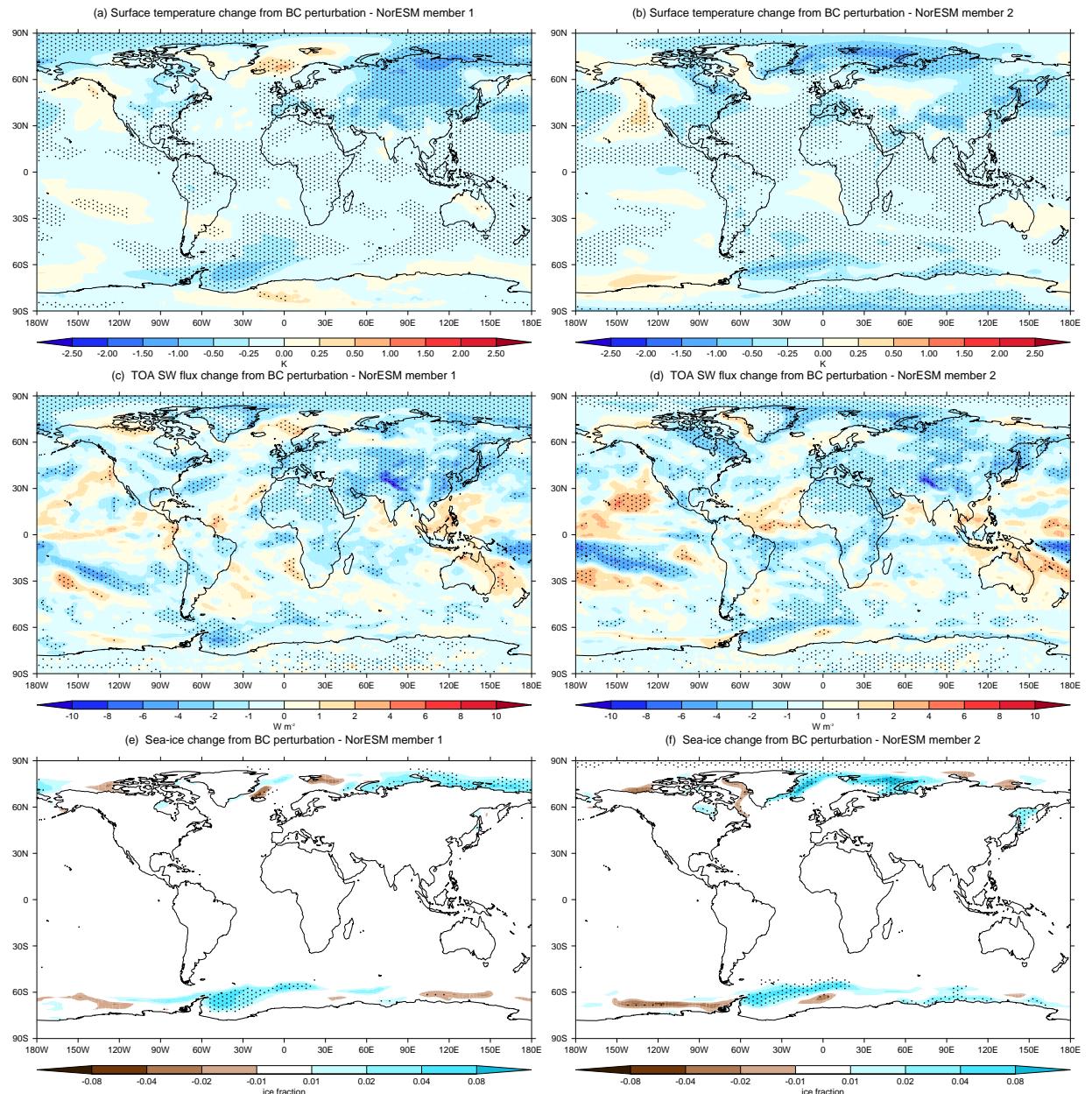


Figure S 4: Responses to BC perturbations in NorESM member 1 (left column) and member 2 (right column). Top row: surface temperature change, middle row: TOA SW flux change, bottom row: change in sea-ice fraction.

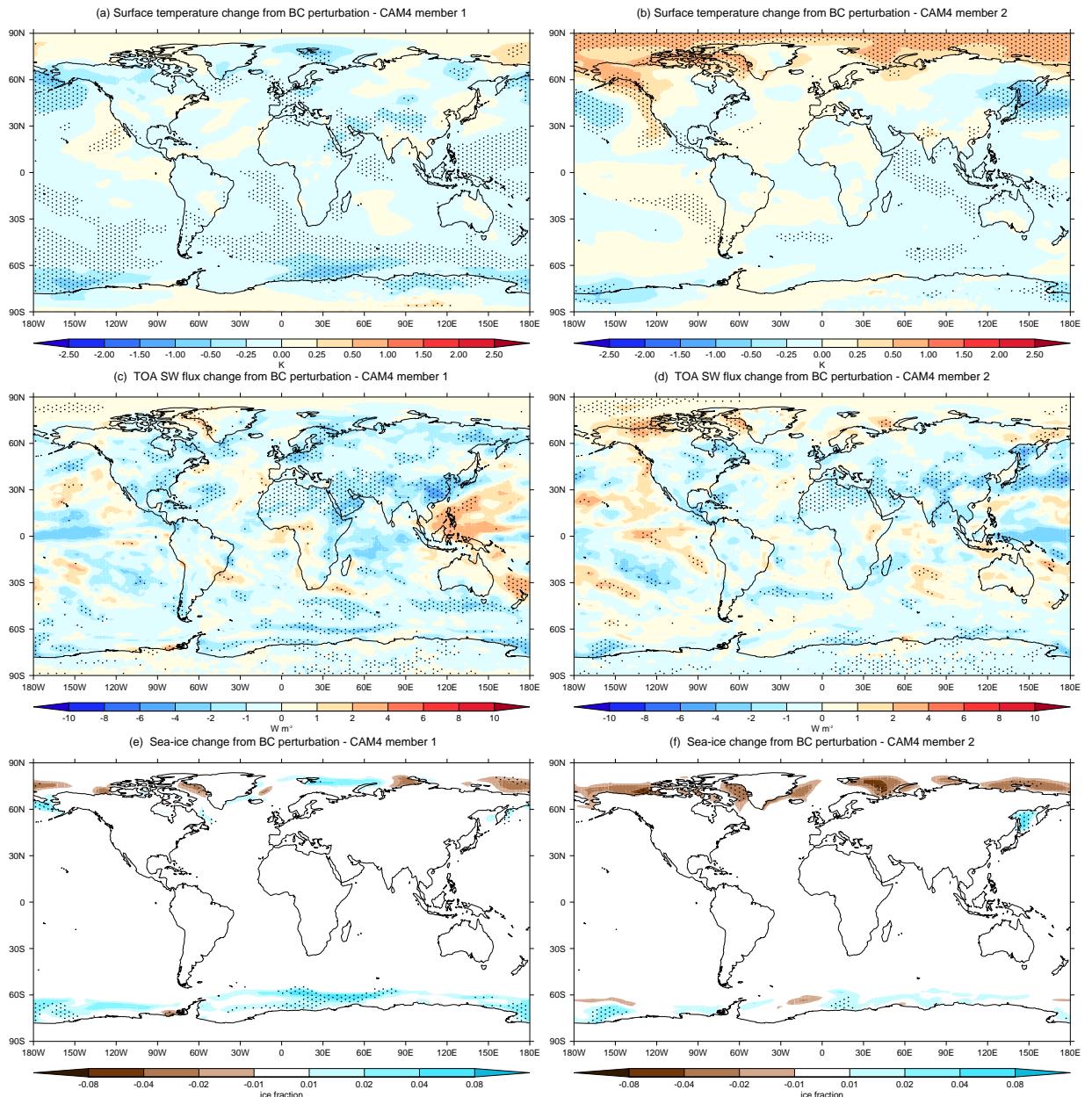


Figure S 5: Responses to BC perturbations in CAM4 member 1 (left column) and member 2 (right column). Top row: surface temperature change, middle row: TOA SW flux change, bottom row: change in sea-ice fraction.

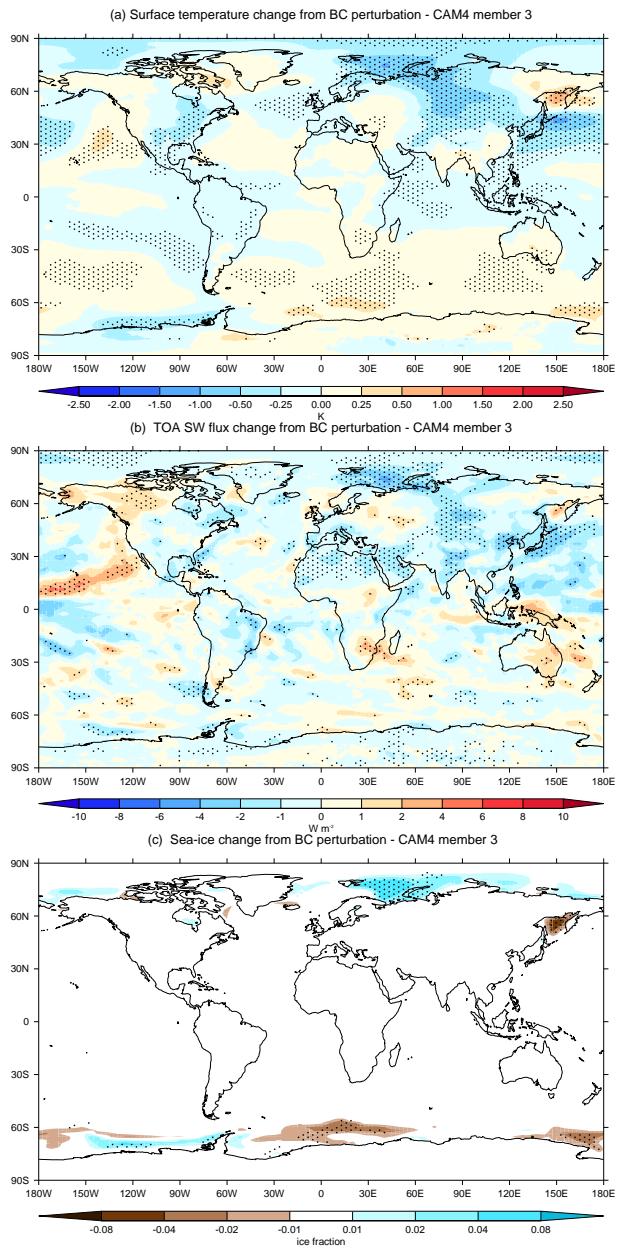


Figure S 6: Responses to BC perturbations in CAM4 member 3. Top row: surface temperature change, middle row: TOA SW flux change, bottom row: change in sea-ice fraction.