

# Supporting Information for "Modulation of Tropical Convection-circulation Interaction by Aerosol Indirect Effects in Idealized Simulations of a Global Convection-permitting Model"

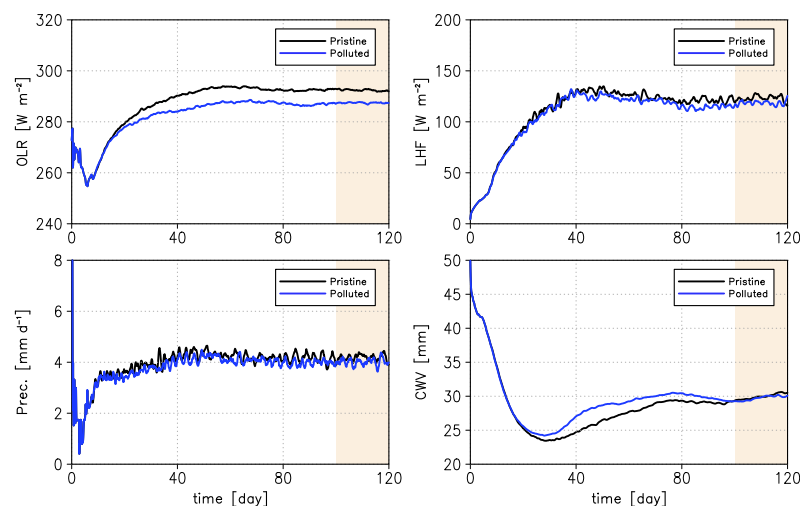
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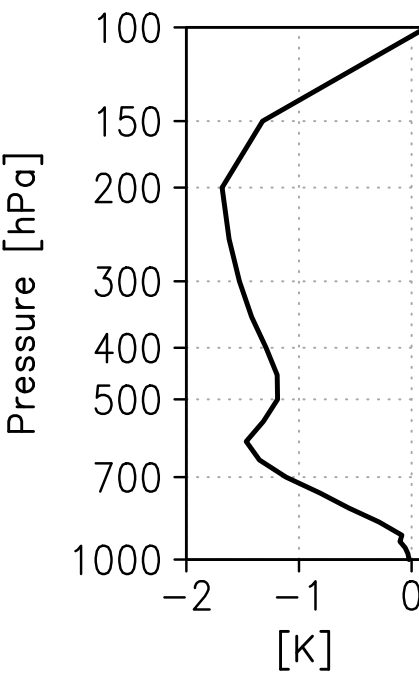
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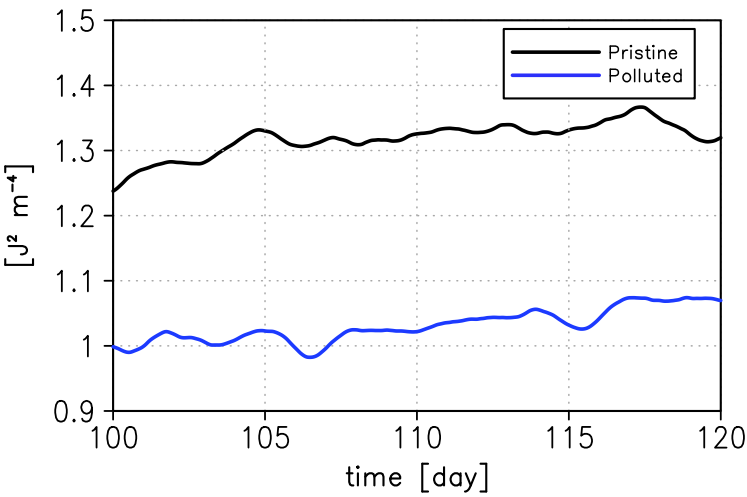
### 1. Figures S1 to S3



**Figure S1.** Time series of the global average of outward longwave radiation (upper left), surface latent heat flux (upper right), surface precipitation intensity (lower left), and column waver vapor (lower right). Day 100 to 120 is shaded.



**Figure S2.** Difference in the global average of atmospheric temperature profile from day 100 to 120 between the polluted run and the pristine run.



**Figure S3.** Time series of the spatial variance of vertically integrated FMSE.