

Interactive comment on “DynVarMIP: Assessing the Dynamics and Variability of the Stratosphere-Troposphere System” by Edwin P. Gerber and Elisa Manzini

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Presently, the authors suggest that data for the 4xCO₂ simulations be output over the final 40 years of the simulation. However, this will completely miss the initial response of the circulation to the abrupt "turning-on" of CO₂ forcing. This initial response is very important for understanding how the troposphere and stratosphere may couple via eddy feedbacks, and provide dynamical mechanisms for the equilibrated response seen in the final years of the simulation. Thus, I would strongly recommend having data output in the first 30 (or 40) years of the 4xCO₂ simulation and in the final 30 (or 40 years) of the simulation. This will allow the community to study both the adjustment of the system to the abrupt CO₂ forcing, as well as its equilibrated response.

C1

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