

Interactive comment on “The energetics response to a warmer climate: relative contributions from the transient and stationary eddies” by D. Hernández-Deckers and J.-S. von Storch

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We agree with the editor in the sense that including these new results here could make the paper more compelling. Nevertheless, we consider that doing so would bring more disadvantages than advantages. First of all, it would distort the main focus of the paper. The current manuscript has a very specific focus, with results that we consider a substantial contribution for understanding the energetics response to a warmer climate. We investigate here the relative contribution of the transient and stationary eddies to the global energetics response. The question that our new experiments will try to answer would not contribute directly to this goal, but only to one specific feature from the

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current paper: the competing effects causing the transient eddy response. However, it is a very relevant question in a much broader sense, and it requires much more attention than we can give to it in this manuscript. We consider that not including this analysis here makes the results of the current manuscript more visible, and gives us the opportunity of giving the proper emphasis to the new results in a separate paper. Otherwise we would be trying to cover two different focuses in one manuscript, making its main message less clear and concise. On top of that, the new analysis is based on a completely different set of experiments—as opposed to experiments with different resolutions, as considered here—and a different methodology, so that including it here would require much more than just one additional section.

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