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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I believe that the results as described below are an important component of this paper: “The strengthening in the upper-troposphere is caused by the increased meridional temperature gradient due to the tropical upper tropospheric warming, while the weakening below is due to a combination of a weaker meridional temperature gradient – caused by the high-latitude surface warming – and an enhanced mean static stability – caused by the tropical upper-tropospheric warming. In order to completely separate the effects of the different features of the warming pattern on the energetics of the atmosphere, additional simulations are carried out in which specific atmospheric warming patterns are forced. These experiments, to be reported elsewhere, are expected to verify the current results presented here, and in particular, to quantify the relative contribution of the tropical upper-tropospheric warming and the high-latitude surface warming to the dual energetics response of the LEC.”

It would make this paper more compelling if those results were described in this study. Is there a reason that those results are being saved for a separate paper? It seems likely to weaken both papers to spread the results out like that.

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