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Reply on RC2

Gunter Stober et al.

Author comment on "Interhemispheric differences of mesosphere–lower thermosphere winds and tides investigated from three whole-atmosphere models and meteor radar observations" by Gunter Stober et al., Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2021-142-AC2>, 2021

The reviewer comments about our manuscript are appreciated. We are going to revise the manuscript putting more emphasis on the interhemispheric differences in the observations and separate these findings a bit more from the model results. However, we would like to keep the general layout of the figures in the main part. The seasonal morphology of mean winds and tides provides a better qualitative comparison for the model development. Although it would be desirable to obtain a good quantitative agreement to the observations of WACCM-X(SD), GAIA and ICON-UA, the first goal is to improve the qualitative seasonal pattern. However, as suggested by the reviewer, we will add the quantitative comparison in the appendix for the mean winds to include the best from both worlds in the paper.