

Interactive comment on “Study of second-order wind statistics in the mesosphere and lower thermosphere region from multistatic specular meteor radar observations during the SIMONE 2018 campaign” by Harikrishnan Charuvil Asokan et al.

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Received and published: 12 January 2021

The discussion on this paper has been vigorous, perhaps too much so. I trust that subsequent comments and responses will concentrate on the scientific questions associated with this paper.

The main issue that has been raised by the reviewers is the very large vertical winds observed by the authors. These are difficult to reconcile with the physics of the neutral

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atmosphere at these heights as they would be associated with unrealistically large temperature changes and vertical displacements of air. In crafting their response to the reviewers, the authors should consider this point carefully and be able to guarantee that these results are not related to issues with the observation or analysis technique. If this is not possible, the paper cannot be published in its current form.

Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2020-974>, 2020.

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