

Response Technical Corrections:

Editor Comment:

Although the reviewers have raised two technical corrections, I believe that the paper is ready for publication after correcting these two issues:

1- Consider the quality standards of the figures:

*Review file validation: With the next file upload request, please rename the material in the uploaded supplement *.zip to e.g., "Figure S1" and "Figure S2" (please see: <https://www.geoscientific-model-development.net/submission.html#assets> -> section "Supplements").*

2- Update the citations of the microscale models:

RC1: *I believe that authors worked on the issues I have raised in my first review report. The manuscript is now much better than the first version. There is only one minor issue is that authors mentioned the models without proper citations. For example, the model PALM-4U and MITRAS were mentioned without citation. I guess the proper citations are also GMD articles:*

<https://doi.org/10.5194/gmd-13-1335-2020> and <https://doi.org/10.5194/gmd-11-3427-2018>

RC2: *Accepted as is*

I would like to thank the three reviewers who carefully revised the paper and contributed to the improvement of the paper. I also would like to thank the authors for the productive discussions and improvements they did for the manuscript.

1.) We have renamed the figures in the supplementary material to "Figure S1" and "Figure S2" now according to the standards. We have therefore reuploaded the supplementary ZIP file and adjusted the corresponding citations of the two supplementary figures in the manuscript text now.

2.) We have now added the corresponding citations for the models PALM-4U and MITRAS as suggested:

Maronga, B., Banzhaf, S., Burmeister, C., Esch, T., Forkel, R., Fröhlich, D., Fuka, V., Gehrke, K. F., Geletič, J., Giersch, S., Gronemeier, T., Groß, G., Heldens, W., Hellsten, A., Hoffmann, F., Inagaki, A., Kadasch, E., Kanani-Sühring, F., Ketelsen, K., Khan, B. A., Knigge, C., Knoop, H., Krč, P., Kurppa, M., Maamari, H., Matzarakis, A., Mauder, M., Pallasch, M., Pavlik, D., Pfafferoth, J., Resler, J., Rissmann, S., Russo, E., Salim, M., Schrempf, M., Schwenkel, J., Seckmeyer, G., Schubert, S., Sühring, M., von Tils, R., Vollmer, L., Ward, S., Witha, B., Wurps, H., Zeidler, J., and Raasch, S.: Overview of the PALM model system 6.0, *Geosci. Model Dev.*, 13, 1335–1372, <https://doi.org/10.5194/gmd-13-1335-2020>, 2020.

Salim, M. H., Schlünzen, K. H., Grawe, D., Boettcher, M., Gierisch, A. M. U., and Fock, B. H.: The microscale obstacle-resolving meteorological model MITRAS v2.0: model theory, *Geosci. Model Dev.*, 11, 3427–3445, <https://doi.org/10.5194/gmd-11-3427-2018>, 2018.

We would like to thank the reviewers for their valuable feedback and suggestions improving the manuscript, as well as the editor for the professional implementation and coordination of the peer-review process and the thorough evaluation of the reviews and feedback.