

Atmos. Chem. Phys. Discuss., referee comment RC3
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Comment on acp-2022-125

Martino Marisaldi (Referee)

Referee comment on "Continental thunderstorm ground enhancement observed at an exceptionally low altitude" by Ivana Kolmašová et al., Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2022-125-RC3>, 2022

This is an interesting paper that reports a very detailed characterization of two Thunderstorm Ground Enhancements detected at low altitude in the Czech Republic. In addition to particle measurements, the paper includes meteo, electric field and radar measurements which are carefully detailed and essential to investigate the environment at the origin of these phenomena. I think the paper is very clear and well written, and I enjoyed reading it. I definitely recommend the paper for publication after my comments are addressed.

The main comments regard the estimate of the cloud base, already addressed also by Ashot, and the methodology used for the simulations. I think there are also some missing references. The comments are attached as annotated pdf (I recommend the use of acrobat reader to view it, as for my experience some comments do not show up in other pdf viewers)

Please also note the supplement to this comment:

<https://acp.copernicus.org/preprints/acp-2022-125/acp-2022-125-RC3-supplement.pdf>