

Interactive comment on “Investigating the impact of atmospheric stability on thunderstorm outflow winds and turbulence” by Patrick Hawbecker et al.

Anonymous Referee #2

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The manuscript describes simulations of downbursts with a LES model and tries to identify the influence of the stabilisation of the thermal stratification of the surface layer during the evening transition on the strength of these downbursts.

The paper is well written and understandable and does not contain any obvious errors. The introduction is rather long and has got a review character which covers more than that what is necessary to understand the content of the manuscript.

The only shortcoming - to the estimation of the reviewer - is that the simulated peak wind speed of roughly 35 to 38 m/s is not compared to the vast body of literature mentioned in the introduction.

Otherwise, the manuscript may be published as is.

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