

Interactive comment on “Observations and Simulations of a Wind Farm Modifying a Thunderstorm Outflow Boundary” by Jessica M. Tomaszewski and Julie K. Lundquist

Anonymous Referee #2

Received and published: 4 June 2020

Reviews corresponding to the article: “Observations and Simulations of a Wind Farm Modifying a Thunderstorm Outflow Boundary”

Authors: Jessica M. Tomaszewski, Julie K. Lundquist

General comment:

This manuscript investigates the impact of an onshore wind farm on the outflow boundary of a thunderstorm - a topic that has not been investigated so far. Hence, this manuscript is relevant and adds new knowledge to the wind energy community. Generally, the paper is well written and structured and the figures are well made! The only point that is unclear to the reviewer is the way they obtained the uncertainties (standard

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deviations) shown in Fig. 7. Therefore, I ask the authors to add more information about this procedure (see specific comments, for more details).

Specific comments:

P11L220-221: “Three separate measurements examinations are conducted for each case. . .”; could you be a bit more precise, as it is quite crucial to understand Fig. 7a). I don’t understand how you actually obtained three different results: Did you conduct the measurements at three different points? Secondly, what did you do in case the transect intersected several times with the chosen threshold of 4 (m/s)/km?

Interactive comment on Wind Energ. Sci. Discuss., <https://doi.org/10.5194/wes-2020-69>, 2020.