

***Interactive comment on* “Contribution of personal weather stations to the observation of deep-convection features near the ground” by Marc Mandement and Olivier Caumont**

Anonymous Referee #2

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The paper concerns the assessment of the added value of personal weather stations data, provided by Netatmo sensors, for the assessment of the near surface spatio-temporal evolution of deep moist convective phenomane.

The paper is very timely from a research standpoint, well-written and based on a convincing methodological approach.

Only some major comments are raised hereafter:

1) page 11, line 31: "The gridding method used is the inverse distance weighting (IDW)". Question: are the results sensitive to the adopted gridding method?

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2) page 12, lines 1-5: how the limit distances between grid points and station location were selected?

3) the quality control is based on complete timeseries and it seems to be performed only in post-event phase. Can the authors consider the possibility to apply a quality flag to a certain station based on several post-event timeseries validation? this probably would pave the way also to a real time usage of these stations.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2019-229>, 2019.

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