Interactive comment on “Investigation of severe dust storms over the Pan-Eurasian area using multi-satellite observations and ground-based measurements” by Lu She et al.

Anonymous Referee #1

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This manuscript describes a severe dust episode originating from Gobi desert on early May 2017. The authors present the event properties based on satellite, in-situ and model backtrajectory data. The manuscript is well written and the data are clearly described. However I do not recommend publication in NHESS. The reason is that at this stage it looks more like a report rather than a scientific paper and there is no clear justification of the contribution of this study to the relevant literature (e.g. unique properties of the particular event, explanation of the system behaviour, impact, etc). A simple presentation of measurements does not really contribute to our understanding on these events nor to the improvement of forecasting or mitigation activities. Similar measurements and observations are routinely performed worldwide. For example the
origin and the evolution of this specific event has been forecasted by operational atmospheric dust models (e.g. http://www.bsc.es/ess/bsc-dust-daily-forecast) so there is really no need to perform HYSPLIT backtrajectories.