

Interactive comment on “Impacts of air pollutants from fire and non-fire emissions on the regional air quality in Southeast Asia” by Hsiang-He Lee et al.

Anonymous Referee #2

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The authors have conducted a very interesting study to investigate the impacts of air pollutants from fire and non-fire emissions on air quality in Southeast Asia. To achieve this goal, they have made use of different sources of data and tools. Overall, I recommend this paper could be published after they have addressed my concerns here.

a) Line 207-211. The model calculates the visibility based on the extinction coefficient of aerosols. The authors neglect the role of relative humidity. Very high relative humidity also leads to low visibility in observations. How will this affect the final result? Can it explain the missing LVD days in the model?

b) This paper is too long, with 9 tables and 10 figures. The readers don't need to know so many details. So I suggest shortening this paper quite a lot. In my view, these figures and tables can be moved to the supplement. Table 1. You can just mention it in

the text. Table 3. You can cite the website where the readers can find the information here. Table 5-8. Try to move some of them to the supplement. Too many details will distract the readers. Figure 6. The readers are lost when they find so much information in this figure. Figure 8-10. Yes, the machine learning techniques used here are very fancy, but they are not the key points of this paper. There is no need to display three figures to illustrate your ML results. Abstract. This is a really long abstract. I suggest shortening it.

Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2017-1096>, 2017.

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Discussion paper

