Comment on egusphere-2022-578
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Community comment on "A deep learning approach to increase the value of satellite data for PM\textsubscript{2.5} monitoring in China" by Bo Li et al., EGUsphere, https://doi.org/10.5194/egusphere-2022-578-CC1, 2022

This study reported a study about obtaining the near-ground PM\textsubscript{2.5} concentrations from satellite observation via deep learning method. The demonstration and verification of the article are sufficient for me. But, I still have several questions about this research:

1, The filtering method utilized in CNEMC dataset should be introduced in the manuscript. Besides, I wander how the filtered data affect the results?

2, What factors affect the training efficiency of ST-NN model? Does different learning rate have significant effect on training efficiency? How do you choose the learning rate?

3, Whether different optimizers affect the results? (SGD, Adam)

I find some typos in the Supplement:

Table. S10 spot and leisure services -> sport and leisure services

Table. S13 Rate (%) -> Rate