Interactive comment on “Air quality and acid deposition impacts of local emissions and transboundary air pollution in Japan and South Korea” by Steve Hung Lam Yim et al.

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Dear authors,

I have some short questions here:


Actually, the inventory and its limitation were very briefly described in Gu and Yim et al. (2016), and the reviewer’s comments were not shown. So would you please explain in detail the inventory and its limitation? I believe this is also very important and fundamental for the manuscript.

And what about the natural dust part of the PM2.5 if is it not included in the inventory at all?

2. Can you get the components of the PM2.5? I think there are more elements other than SO4 2- /NO3- in the PM2.5 and the components of the PM2.5 may partly help to explain the seasonal variations.

3. Would you please also explain in greater detail the chemistry process regarding the PM2.5 and its wet deposition which was claimed to be the significant part of the deposition?

4. Have you ever traced the PM2.5 backward to see the trajectories and the origin from a Lagrangian perspective? If you did so, do the results agree with your current conclusions?

Thank you.

Regards, Xue