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Atmospheric Chemistry and Physics Discussions

Interactive comment on "The study of emission inventory on anthropogenic air pollutants and VOC species in the Yangtze River Delta region, China" *by* C. Huang et al.

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This is a well written and organized manuscript. It calculated the emissions of SO2, NOx,... and NH3 in YRD region. Since i just finished two papers on the emission and dynamics of amines in the atmosphere, i would like to add something related with NH3:

Based on a literature review, typically, that the amines can be emitted from the similar sources as ammonia, like from livestock feeding, sewage treatment, landfills, etc. The emission flux for methylamines is 2-3 orders lower than NH3.(See part I).

I understand that data for amines might be not available in this region, this information can only be qualitative rather than quantitative. (Perhaps a simple conversion based on the global flux in our work is reasonable?)

The second part of our work proves that the tendency of amines to partition into the particle phase is similar to or greater than ammonia.

X. Ge, A. S. Wexler, S. L. Clegg. Atmospheric Environment. 45(2011),524-546.

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Interactive comment on Atmos. Chem. Phys. Discuss., 11, 951, 2011.