

Interactive comment on “Resolution dependence of uncertainties in gridded emission inventories: a case study in Hebei, China” by Bo Zheng et al.

Anonymous Referee #2

Received and published: 14 December 2016

The manuscript describes the effect spatial resolution has on emission inventories and subsequent pollutant concentrations toward exposure estimates. The study is well-formulated and concise. The methodology is clear and shows how the resolution of a bottom-up approach is more appropriate at smaller scales when compared with a less-well approximated inventory relying on spatial proxies. Overall, the manuscript is well-written and I recommend it for publication. There are two sections that could be improved for clarity:

Lines 305-307: Here it would help the reader if it is stated explicitly that the point source emissions are allocated as nonpoint sources. Although it seems clear after some re-reading, it was not immediately obvious that the point sources were, in effect, converted to nonpoint sources using the methodology described. It may be useful to generate a more comprehensive Table 3 where the actual emissions by source types are listed.

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Table 1: There is a reference to Zheng et al 2014 (e) but I don't see that on the table.

Interactive comment on Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2016-907, 2016.

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