

Interactive
Comment

Interactive comment on “Effect of isoprene emissions from major forests on ozone formation in the city of Shanghai, China” by F. Geng et al.

F. Geng et al.

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General comments;

This paper investigates the impact of isoprene emissions from major forests on ozone formation in a Shanghai, a megacity, using the coupled regional meteorology and chemical transport model WRF-Chem. Biogenic-anthropogenic interaction on urban pollution is an important area of research; this study will be a valuable contribution to the literature on this topic. The paper should be published on ACP with minor revisions.

Specific comments and responses;

On page 18530, line 20: Provide the value of 2.56 trillion RM in US dollars or Euros to give westerners a better perspective.

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Response; We add (about 0.37 trillion Dollars) after 2.56 trillion RMB.

Section 2.2 and Table 1 should include information on the sampling duration. Discussion of measurement error and uncertainty should also be included.

Response; The sampling duration is 30 minutes, and we clarify this issue in Section 2.2 and Table 1.

Although it is obvious, Table 1 should label the units for temperature and isoprene concentration.

Response; We add units for temperature and isoprene in Table 1.

What are the dashed lines in Figure 4?

Response; The dash-lines highlight the highest isoprene emission area. This issue has been clarified in the figure caption.

The domains shown in Figure 2 and Figures 4-9 are different than the domain shown in Figure 1 such that it is difficult to get a sense of the spatial scales in each figure. Putting a box in Figure 1 outlining the subdomains shown in other figures would be useful. Also useful would be to include latitude longitude coordinates or a distance scale in Figure 1.

Response; We re-plot Figure 1, and make the figure domain consistent with Figure 2. In addition, we also include latitude and longitude in Figure 1.

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 18527, 2011.

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