

## ***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.**

xxtie@ucar.edu

Received and published: 8 September 2011

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.

C8692

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.

C8693