

Interactive comment on “Variation of ambient non-methane hydrocarbons in Beijing city in summer 2008” by B. Wang et al.

Anonymous Referee #2

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The paper by Wang et al. describes the variation of NMHCs in Beijing and discusses the effects of the control measures enacted for the 2008 Olympics. In general, this manuscript is clear and well written, and I recommend publication of this paper on ACP after revisions related to the following suggestions.

- 1) More detailed information for the air sampling (e.g. sampling time of day, total sample number) at each site should be described.
- 2) "Two criteria" for the data selection are unclear. The first criterion seems to be "wind speed below 2m/s and wind direction of 225–360 degree"? What does the second criterion, "the range of meteorological data in the Olympics", mean specifically?
- 3) Please state if the data in previous years in Beijing were chosen with the same

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criteria or not.

- 4) As pointed out by Referee 1, the comparison to NMHCs in other cities should not be useful, if they were not measured under similar conditions.
- 5) All the NMHCs data are shown only as their monthly averages, and it is difficult to have an idea about their day-to-day or diurnal variation. I recommend the authors should add a figure which shows the temporal variation of the whole data of a few selected hydrocarbons.
- 6) What time of day is assumed for the calculation of the contributions from major sources (Figure 5)? The biogenic contribution should be greatly changed by time of day.
- 7) I recommend the authors should compare the calculated total OFPs with the observed ozone data, if they are available.
- 8) typo error: In the caption of Figure 2(b), "propane" should be "propene".

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