

Interactive comment on “Source apportionment of atmospheric ammonia before, during, and after the 2014 APEC summit in Beijing using stable nitrogen isotope signatures” by Y. Chang et al.

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Dear readers, especially reviewers,

I would like to thank you for your valuable time in reviewing our MS.

All our modeling results for each sample were depicted in Figure 3, and their values were reported in Table 2. The modeling results show in Figure 3 are correct. However, I am deeply SORRY to tell you that I noticed a mistake in Table 2: the first sample (Before-1) and the last sample (After-4) had the same data in “Relative contribution of NH₃ conc.” for each NH₃ source.

After double check, the data of the first sample in Tale 2 is wrong. The correct (wrong)

value for the relative contribution of traffic, waste, livestock, and fertilizer is 44.6% (18.5%), 16.6% (31.3%), 28.3% (28.6%), and 10.4% (21.6%), respectively.

Obviously, this mistake could underestimate the contribution of traffic to ambient NH₃ before the APEC summit. However, I would like to emphasize that this mistake has no influence on our conclusion. Specifically, the wrong (correct) average contribution of traffic, waste, livestock, and fertilizer to ambient NH₃ throughout our sampling period is 18.3% (20.4%), 27.1% (25.9%), 24.0% (24.0%), and 29.7% (30.6%), respectively.

I guess the reason of the mistake I made is because that the first sample (Before-1) and the last sample (After-4) have the same value in NH₃ mass concentration, and I confused their modeling results during data processing. We are pleased to provide all data involved in this study as requested.

After communication with the handling editor, we've been told that we cannot make any corrections at the current stage and been suggested that we can make this statement as Authors' comments, and then make all the corrections in the final version of the paper (ACP version if it is accepted) together with other changes after addressing your concerns.

Sorry again for any inconvenience I've made.

Best Regards,

Yunhua Chang June 25, 2016 (the day of my PhD graduation at FD)

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Discussion paper

