

Dear Editor

Thank you very much. We have revised the manuscript according to the comments. Here is a point-to-point response to the comments and suggestions.

Your Sincerely,

Xiaohong

Prof. Xiaohong Yao (Ph.D)
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Thank you for the revision of your manuscript which has improved its readability. However, there is a number of further corrections to be done before its publication in ACP.

These are listed below. Please perform them and submit a revised version for publication in ACP.

Outliers: could you comment if the outliers have specific characteristics, sources etc

Response: One data in Figure 3c was subject to the second injection when the AIM-IC was restarted. The first injection has been removed in the data analysis. The outlier could still be due to the incompletely removed residual in the system. Therefore, the data was removed in the revision through the manuscript. The outlier in the remaining outlier was confirmed as the normal signal. However, we can not identify the cause for the signal. The same can be said to the outlier in Figure 3b. This has been clarified in the revision.

Line 43: well documented with these amines to be released

Response: Revised.

Line 108 : TMAH+ do you mean DMAH+ ?

Response: We have confirmed it should be TMAH⁺.

Line 150: 'The values' do you mean ' TMAgas values '

Response: Yes. Revised.

Line 156: I think a connecting sentence is missing, something like ' This is supported by the following. '

Response: Added.

Line 157: replace '1)' by 'First,'

Response: Revised.

Line 161: from continental input

Response: Revised.

Line 169: replace '2)' by 'Second,'

Response: Revised.

Line 175: replace '3)' by 'Third'

Response: Revised.

Line 213: replace 'was' by 'is'

Response: Revised.

Line 213: ... 'the observed ratios' ... please provide average and range

Response: The part has been added in the revision as “the observed ratios of TMA_{gas} to NH_{3gas} ranged from 0.01 to 0.10, with the average value of 0.04±0.01, which were two orders of magnitude larger than those that have been reported in marine atmospheres and adopted for modeling.”

Lines 442, 443, 451: ' in Campaigns' I would rather use ' During campaign'

Response: Revised.