

Dear Editor

Thank you very much. The revised manuscript has been polished using on-line language-editing service.

Your Sincerely.

Xiaohong

Prof. Xiaohong Yao (Ph.D)
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Thank you very much for the revision of your manuscript. Some more effort is needed before acceptance of the paper in APC. Please perform them and resubmit a revised manuscript for editor's review. kind regards the editor

*In general, the manuscript could benefit from been read by a native English speaker. Herebelow, a number of areas where further rephrasing is needed.
Line 15: remove 'originating'*

Response: Removed.

Gibb et al 1999 reference that has been added in the text is missing from the reference list.

Response: Added.

Text in lines 146-152 is not clear enough.

1) 'This suggests that the TMA_{gas} and TMAH⁺ concentrations in the upwind continental and coastal atmospheres were substantially lower than those values over tens of ng m⁻³ reported in the literature (Ge et al., 2011). '

I suggest rephrasing it to:

TMA_{gas} and TMAH⁺ concentrations in the upwind continental and coastal atmospheres were substantially lower than the values reported in the literature of up to a few tens of ng.m⁻³ (Ge et al., 2011). (is this what you want to say?)

Response: Revised. The sentence has been revised as “TMA_{gas} and TMAH⁺ concentrations in the upwind continental and coastal atmospheres were substantially lower than those reported in the literature, by up to a few tens of ng m⁻³ (Ge et al., 2011).”

2) Gibb et al. (1999) reported an even lower average of TMA_{gas} (0.5 ng m⁻³) and particulate TMAH⁺ (0.5 ng m⁻³) in the marine atmosphere over Arabian Sea on November 16 to December 19 in 1994.

Lower than what ?

Response: The sentence has been revised as “However, Gibb et al. (1999) reported a low average of TMA_{gas} (0.5 ng m⁻³) and particulate TMAH⁺ (0.5 ng m⁻³) in the marine atmosphere over the Arabian Sea on November 16 to December 19, 1994.”

3) It is interesting that this was not the case—five to ten years ago in the atmosphere over the sea as listed in Table S1 and at the coastal 150 sites (Yu et al., 2016; Xie et al., 2018). For example, the concentrations of the two aminium ions were comparable in atmospheric particles collected at two other coastal sites located approximately 20 km from the study area (Xie et al., 2018).

These sentences need to be rephrased for clarity. What was not the case ? comparable to what ?

Response: Revised, it reads as “Xie et al. (2018) reported that TMAH⁺ concentrations were comparable to those of DMAH⁺ in atmospheric particles collected at two other coastal sites located approximately 20 km from the study area, as listed in Table S1.” The Table S1 have also been changed according to the sentence.

Line 167: ‘The comparison results strongly indicated that the TMA_{gas} observed during Campaign A was largely derived from marine sources’

Please rephrase ‘comparison results’ and explain why they indicate that the TMA_{gas} was mainly from marine sources?

Response: Revised, it reads as “The observed TMA_{gas} concentrations were one order of magnitude higher than those measured in the coastal atmosphere during the summer, fall, and winter. This suggested that the TMA_{gas} observed during Campaign A was largely derived from marine sources rather than from long-range continental transport.”

Line 258-259: use ‘from ... to...’ to define periods, for instance ‘from 10. ... to 23’

line 322: ‘hourly average’

line 338: emissions from seabirds

Response: Revised.