Mapping gaseous amines, ammonia, and their particulate counterparts in marine atmospheres of China's marginal seas: Part 2 - spatiotemporal heterogeneity, causes and hypothesis

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Figure S1: Map of particulate NH_4^+ in marine atmospheres during three campaigns (a) Campaign B; (b) Campaign A; (c) Campaign C; size distributions of particulate NH_4^+ was superimposed in (c); D2May, D3May, N20May represent the samples collected in daytime on 2nd, 3rd May 2012 and nighttime on 20 May 2012, respectively.

Figure S2: Correlation of TMA_{gas} with ambient temperature (open circle and cross represent the data collected in Campaign B and a particular period of Campaign A, respectively).

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Figure S3: Time series of molar ratios of $\text{DMA}_{\text{gas}}/\text{NH}_{3\text{gas}}$ (a) and (c) in Campaign B and A; correlation between $\text{DMA}_{\text{gas}}/\text{NH}_{3\text{gas}}$ and $\text{DMAH}^+/\text{NH}_4^+$ (b) and (d) in Campaign B and A; map of particulate DMAH^+ ; (e) and size distributions of $\text{DMAH}^+/\text{NH}_4^+$ and mass concentrations of DMAH^+ ; (f) in Campaign C.