

***Interactive comment on “Elevated nitrogen-containing particles observed in Asian dust aerosol samples collected at the marine boundary layer of the Bohai Sea and the Yellow Sea” by H. Geng et al.***

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We thank Dr. Xiande Liu for reviewing our manuscript and providing useful interactive comments.

Respecting his comments, we will modify our manuscript by adding a paragraph on page 13663, line 27. The added sentences are: “A substantial portion of sea salt particles were collected as water droplets which can be inferred from the morphology.

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Some sea salt particles appear as a group of particles scattered over a circular dark pattern, e.g. the genuine sea salt particles such as particles #6, #8, #10 in Figure 4 and reacted sea salt (& mixture) particles such as particles #2, #18, #59, #61, #64. The sea salt particles were possibly collected as a fresh droplet from sea spray, spread over the collecting substrate, and dried out as a cluster. Some sea salt particles have typical cubic shape of sea salts, e.g., the reacted sea salt (& mixture) particles #23, #67, and #71 in Figure 4, indicating that these particles were likely collected as single particles and the crystalline shape is well preserved.”

In addition, respecting Dr. Liu’s comment on page 13674, line 25-27, the sentence will be changed to “The results imply that Asian dust aerosols were an important carrier of gaseous inorganic nitrogen-containing species, especially NO<sub>x</sub>(or HNO<sub>3</sub>) and NH<sub>3</sub>. . .”.

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