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9, C3485–C3486, 2009

Interactive Comment

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.

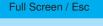
H. Geng et al.

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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 NOx(or HNO3) and NH3...".

Interactive comment on Atmos. Chem. Phys. Discuss., 9, 13655, 2009.

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