

***Interactive comment on “Observation of atmospheric aerosols at Mt. Hua and Mt. Tai in Central and East China during spring 2009 – Part 2: Impact of dust storm on organic aerosol composition and size distribution” by G. H. Wang et al.***

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Received and published: 14 February 2012

This is a very interesting paper. I am particularly interested in the author’s finding that suggests that LMW PAHs revolatilize and redistribute bimodally onto dust particles, and their finding that in contrast, HMW PAHs stay in the fine mode. This does speak strongly for their case that organics are able to deposit onto dust surfaces.

As further support for this finding, the authors might be interested in a recent study in  
C15290

the North Atlantic. In Zamora et al., 2011, we found evidence that aerosol water soluble organic nitrogen compounds were capable of adsorbing or depositing onto Saharan dust particles. However, we did not look at the actual individual species or mechanisms involved.

Reference: Zamora, L. M., J. M. Prospero, and D. A. Hansell (2011), Organic nitrogen in aerosols and precipitation at Barbados and Miami: Implications regarding sources, transport and deposition to the western subtropical North Atlantic, *J. Geophys. Res.*, 116, D20309, doi:10.1029/2011JD015660.

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Interactive comment on Atmos. Chem. Phys. Discuss., 11, 33543, 2011.