

Interactive comment on “Surface observation of sand and dust storm in East Asia and its application in CUACE/Dust” by Y. Q. Wang et al.

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The referenced paper adds to scientific understanding of Asian dust storms in particular and to dust storms in general. Considering the growing demand for more such information, and the analyses of measurements and observations vs modelled dust generation and atmospheric composition that are contained in this paper, publication is recommended. However, two points must be addressed before it is published.

(1) There is an unsupported assumption (p.9124, lines 18-21) that PM₄₀ can be used as a substitute for PM₁₀, when PM₁₀ is unavailable and when wind speeds are low. This may be intuitive, but it is risky without evidence. I recommend deleting this part of the analysis or revising the statement to reflect greater uncertainty.

(2) The paper needs editing. There are far too many edits to create a more readable document in English than I can do, economically, in this referee comment box. I do have a marked-up hard-copy for the editors if the authors or editors wish to have it. An alternative is that someone e-mails me a non-PDF version of the paper that I can edit.

If these two points are addressed in a satisfactory manner, I would upgrade overall rating of "scientific quality" and "presentation quality" to excellent.

Interactive comment on Atmos. Chem. Phys. Discuss., 7, 9115, 2007.

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Interactive Discussion

Discussion Paper