

# ***Interactive comment on “Aerosol optical properties during dust and biomass burning episodes retrieved from sun-photometer over Shanghai” by C. Shi et al.***

**O. Torres (Editor)**

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The review process has highlighted two major deficiencies of this paper. The largest problem is the short record of observations, which is insufficient to support any general conclusions regarding the characteristics of biomass burning and desert dust aerosols over the area of the study. The second issue, not less important, has to do with the inversion algorithm that uses sky radiances to infer aerosol optical properties and particle size distribution. There are enough algorithmic differences with respect to AERONET's standard inversion scheme, that a dedicated paper describing the authors' modified approach is, perhaps, necessary. I therefore do not recommend a submission of a re-

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vised version of this manuscript with the current focus. I would suggest that the authors use the current set of observations, in an algorithm analysis paper that tests the proposed approaches, and compares results to those of AERONET's standard inversion algorithm. The authors could submit that paper as a new publication to AMT or another journal of their preference.

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Interactive comment on Atmos. Meas. Tech. Discuss., 6, 11011, 2013.

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