

## ***Interactive comment on “Retrieval of Aerosol Combined with Assimilated Forecast” by Mayumi Yoshida et al.***

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Received and published: 2 June 2020

This work is aimed to the retrieval of aerosol properties such as aerosol optical thickness (AOT), Angstrom exponent(AE) and single scattering albedo (SSA) using satellite observations. The authors use the short/term forecasts from an aerosol assimilation system for a priori estimate of parameters to be retrieved. I would suggest the publication of this paper taking into account the comments given below: 1). Please, give equations related the parameters AOT, AE, SSA with fine particles mixing ratio and the imaginary part of their refractive index. Please, specify all assumptions used to derive the corresponding relationships. 2). Please, extend the discussion of Fig.6 pointing to the reasons for possible large deviations of ground and satellite derived aerosol products for the case of developed algorithm.

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Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2020-356>, 2020.

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