Interactive comment on “A benchmark for testing the accuracy and computational cost of shortwave top-of-atmosphere reflectance calculations in clear-sky aerosol-laden atmospheres” by Jeronimo Escribano et al.

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This seems to be a nice inter-comparison exercise. However, in my view, the manuscript could benefit from a few additional citations, that would provide a deeper literature review and better illustrate the scope of the current work in the context of what has been done so far.

Regarding Rayleigh scattering benchmarks, you might want to include this additional reference:

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The following review paper might be relevant:


There are several publications from our group on PCA-based fast RT:


Natraj, V., X. Jiang, R.-L. Shia, X. Huang, J. S. Margolis, and Y. L. Yung (2005), Applica-

Finally, these publications on fast RT models could be cited:

