

The authors have addressed most of the concerns I had before recommending the article for its publication in Atmospheric Measurement Techniques. Personally, I think that the new title proposed is appropriate and that the new study cases for aerosol and cirrus clouds show more convincing results. But I have some minor concern I would like authors address before recommending the final publication:

- Although the authors responded well to my concern about the effects of aerosol microphysical properties in aerosol radiative forcing computations, I miss such a paragraph in the revised manuscript.
- Authors refer in the abstract and in the text to aerosol and clouds optical and geometrical properties. Please, replace by 'aerosol and clouds optical and microphysical properties'.
- Although HSRL technique is not used in operational lidar networks such as EARLINET, their potential can not be ignored. Please refer this in the text and add appropriate references.
- The statement about the upcoming NASA Aerosol-Clouds-Ecosystems mission is not in the correct place. It is very important to reference such mission, and I recommend to move the sentence at the end of line 141. Also, please update reference to Whiteman et al., 2018
 - Whiteman, D.N., Pérez-Ramírez, D., Veselovskii, I., Colarco, P., Buchard, V. (2018) Simulations of spaceborne multiwavelength lidar measurements and retrievals of aerosol microphysics. *Journal of Quantitative Spectroscopy and Radiative Transfer*, 205, 27-39
- Please, define each term of equation 4.
- Axis of Figure 1 and Figure 2 are difficult to read.