

Interactive comment on “Retrieval of aerosol properties from Airborne Hyper Angular Rainbow Polarimeter (AirHARP) observations during ACEPOL 2017” by Anin Puthukkudy et al.

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The authors express sincere thanks to Dr. Otto Hasekamp for reviewing this research paper promptly with constructive comments and suggestions. We especially appreciate the suggestion of minimizing the number of GRASP configurations used. We now are down to one representation of land surface reflectance (Ross-Li BRDF) and two aerosol kernels. We primarily use the GRASP/Five mode kernel that allows for 15 free parameters but also uses a GRASP/Models kernel with only 6 free parameters for a specific validation exercise when the AOD is low. We introduce a new figure that shows the difference in agreement with AERONET when using the different kernels in

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that validation exercise.

The detailed replies to each comment by the reviewer are attached in the supplement.

Please also note the supplement to this comment:

<https://www.atmos-meas-tech-discuss.net/amt-2020-64/amt-2020-64-AC1-supplement.pdf>

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2020-64, 2020.

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