

Interactive comment on “Assessment of nocturnal Aerosol Optical Depth from lunar photometry at Izaña high mountain Observatory” by África Barreto et al.

Anonymous Referee #1

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This manuscript by Barreto et al., “Assessment of nocturnal Aerosol Optical Depth from lunar photometry at Izaña high mountain Observatory”, describes the investigation and correction approach of errors affecting AOD calculation from Moon photometry. I find the manuscript interesting and relevant for the topic of Moon photometry. The topic is also suitable to the scope of AMT. The manuscript is well written and I would recommend it to be published after minor/technical corrections.

Minor comments:

1.

- P9.L17-18. What did you mean with “more important ones”? I think it refers to the

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increased deviation of the 1020nm channel compared to other channels in Fig.5. It looks like you can split the data of the 1020nm channel in Fig.5 to three, or maybe four, different cases with different slopes. Could this be related to temperature differences, as it is stated in the same sentence?

2.

- P4.22-23. Another question to concerning the 1020nm channels. There are two channels with a nominal wavelength of 1020nm. Are both combined to one channel, or which channel measurements are used in this manuscript? Also it is stated, that the silicon 1020nm channel is temperature corrected. How could the deviation of the 1020nm channel in Fig.5 be related to the temperature than?(see comment 1)

Technical comments:

- P8.L29 “the three nights”: Which three nights? Either spare the “the” or give the dates.

- P8.L29 “ranging from -9° to 3° ” \rightarrow ranging from -9° to -3°

- Fig4. I think it would be good to provide the dates.

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