

Authors' Response

We would like to thank the editor, Marloes Penning de Vries, for their prompt review and kind comments. We have integrated responses to their requests in the manuscript as follows (editor's request in black italics, authors' response in red beneath the corresponding request):

(1) a sentence regarding the viewing angle dependence, e.g., your statement that "the effects from high solar zenith angles can be seen towards the beginning and end of the day in Figure 5, where the uncertainties on ORAC retrievals begin to grow, but are a known issue with no obvious solution"

We have added a short statement to lines 319-321 describing the increasing uncertainty associated with the decreased signal-to-noise ratio at large viewing and solar angles.

(2) one or two sentences on the global applicability of your approach, which could be a condensed version of your reply to my second reviewer comment.

We have added a short paragraph explaining the global applicability of the techniques described in this manuscript and the feasibility of transfer this to an operational product to lines 441-447.