

Interactive comment on “A sea surface reflectance model for (A)ATSR, and application to aerosol retrievals” by A. M. Sayer et al.

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The authors thank the three anonymous reviewers for their comments on the manuscript. Our response to this review is given below.

Review 1.

“My only a big question on this paper is that the authors mentioned (second paragraph in page 1053) “The BRDF can take values from around 10^{-5} to 1 dependent on the wavelength and location with respect to the sun-glint region.” In principle, the BRDF should take value from 0 to infinite, and this can be derived from equations 17 and/or

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19, for example, when $\cos(\theta_v) - - > 0$, $\cos(\theta_s) - - > 0$ or , $\cos(\beta) - - > 0$, the $\rho_{gl} - - > infinite$ ”

We agree with this statement. The sentence was intended to convey that the sea BRDF in this spectral region is modelled as taking values between around 10^{-5} to 1 (although as stated BRDF can be between zero and infinite), and this has been clarified in the revised version of the manuscript.

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