

Interactive comment on “In situ autonomous optical radiometry measurements for satellite ocean color validation in the Western Black Sea” by G. Zibordi et al.

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The manuscript will be revised duly accounting for comments from Reviewer #2. Specifically, some additional detail will be included in the manuscript to clarify the band-shift process and the involved wavelengths, and additionally the use of the ratio $LWN(547)/LWN(488)$ (or equivalent center-wavelengths) to discuss the annual climatology at the Gloria site. With reference to the minor issues indicated by the Reviewer, the inconsistency observed for the center-wavelengths in Eq. 11 will be corrected. The suggested swap of "tau" indicating the aerosol optical thickness with "alpha" indicating the Ångström Exponent, should not be made because the symbols already appear to

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indicate the correct physical quantities and values.

The following unsolicited changes will be also made to the manuscript in view of increasing its quality: 1. The VIIRS data from the R2014 NASA reprocessing (only available during late 2014) will be used to construct matchups and perform the statistical analysis. The effects of this change are minor because the improvement in the accuracy of VIIRS data is quite modest with respect to the previous data used for the analysis presented in the first version of the manuscript. 2. The coefficients of the MODIS-A regional bio-optical algorithms will be subject to minor changes. These changes result from an improvement of the band-shift correction scheme. 3. Coefficients for regional bio-algorithms based on the SeaWiFS center-wavelengths will be added. This addition is suggested by the possibility to support SeaWiFS ocean color applications in the Black Sea.

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