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Comment

Interactive comment on “Light availability in the coastal ocean: impact on the distribution of benthic photosynthetic organisms and contribution to primary production” by J.-P. Gattuso et al.

J.-P. Gattuso et al.

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The aim of this document is to point to changes in the revised manuscript which are not outlined in our replies to the referees comments.

1. The identification of Case 1 and Case 2 waters was reprocessed in order to take into account recent results from A. Morel (personal communication). Briefly, waters with a C_{sat} value lower than 0.2 mg m^{-3} are considered to be Case 1 (Morel, personal communication). When C_{sat} is higher than 0.2 mg m^{-3} , the identification of turbid Case 2 waters is performed as in Morel and Bélanger (in

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press) by comparing the water reflectance at 555 nm ($R(555)$) to the maximum value it should have in Case 1 waters ($R_{lim}(555)$). Turbid Case 2 waters are those for which $R(555) > R_{lim}(555)$.

Consequently, Tables 1, 2, 5 and 8, as well as Fig. 3 and 4 have been updated. The conclusions are unchanged but the estimates have gained reliability.

2. All color figures were changed: the color schemes used can be differentiated by color-deficient viewers. See Light and Bartlein (2004; “The end of the rainbow? Color schemes for improved data graphics”. *Eos* 85:385-391) and http://www.geography.uoregon.edu/datagraphics/color_scales.htm.
3. The title has been revised (one article added) to better reflect the content of the paper: ‘Light availability in the coastal ocean: impact on the distribution of benthic photosynthetic organisms and **their** contribution to primary production”

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