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Interactive comment on "Satellite remote sensing reveals a positive impact of living oyster reefs on microalgal biofilm development" *by* Caroline Echappé et al.

Anonymous Referee #1

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The work is a good contribution to the use of RS for mapping MPB mats, and useful in determining the zone of influence of wild oyster reefs on enhanced primary production

- the authors should mention, either from the literature, or from their own studies, how the biomass of the benthic diatoms (MPB) is related to the spectroradiometric ground truthing data. Can the biomass also be related to oyster biomass in some way? For example 1 kg of oysters = 1 kg of MPB

- the authors should estimate the area MPB of the impacted reef before and after, and if possible, relate that to the loss in algal biomass.

- the authors should check the MS for run-on sentences to make the MS easier to read.

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Discussion paper

- the authors might consider mentioning that the hydrodynamics (erosional currents and waves) in the vicinity of the oyster reef effect the net biodeposition and availability of nutrients to the MPB so the distribution might also be related to other factors besides just the presence/absence of live oysters

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Discussion paper