

Biogeosciences Discuss., referee comment RC2  
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## Comment on bg-2021-60

Anonymous Referee #2

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Referee comment on "Mediterranean seagrasses as carbon sinks: Methodological and regional differences" by Iris Eline Hendriks et al., Biogeosciences Discuss., <https://doi.org/10.5194/bg-2021-60-RC2>, 2021

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The preprint of article "**Mediterranean seagrasses as carbon sinks: Methodological and regional differences**" authored by Anna Escolano et al evaluates the differences in community metabolic rates of Mediterranean seagrass meadows formed *oPosidonia oceanica* and *Cymodocea nodosa* due to the methodologies adopted and their geographic locations while projecting their potential as carbon sinks.

Comparing the methodology for assessment of GPP using benthic chambers and the potentiometric probes is so apt and need of the hour especially while highlighting the role of marine macrophytes to combat climate change impacts. The aim and objective of the article is genuine and well achieved.

Metabolic rates of seagrasses may vary with the temperature, salinity, pH, dissolved oxygen levels etc of ambient water as well as photoperiod and PAR reaching the canopy (depth). If the authors have taken care of these factors prevailed during the long observation period ( 2000 to 2019 while drawing inference, this preprint assumes more merit of publication in the Biogeo Sciences Journal.

Except for a few typographical errors (page no 2, line 43 name not in italics, Page 1 line 23 Easter or Eastern basin?) and grammer in a few pages (page 11 line 281 tense), the manuscript has been well constructed with bold presentation of results.