Dear Editor,

the main changes listed below were done following the comments received by the referees:

- New section 3.6. In this section it was included all the estimations about the biomass and organic carbon developed without any sample loose during the biomass sample collection.
- The old section 2.6. (now renamed as 2.7) was extended in the revised version following the comments of the referee 1. It included a correlation test between chlorophyll-a and turbidity after three calima events.
- The contextualization of the blue carbon results in the section 4.2.1 obtained were improved following the referee 1 comment. We have included information of other oligotrophic ecosystems such as rhodolith beds and coraligenous assemblages to provide a more complete frame to allocate the values in the present study.
- The interpretation of grazing and carbon transfer was clarified adding some details in the methodology section 2.6.
- Section 2.2. Following the referee 2 comment, we included the accuracy/precision of different sensors used in the present study, as well as the precisions and the uncertainty obtained from scientific literature about the satellite observations.
- Section 1.1. Study area, was moved to section 2.1. (Methods) following the referee 1 comments.

The new version of the manuscript includes all of the above listed modifications, as well as minor changes suggested by both referees in order to improve the quality of the manuscript.

Best regards,

Juan Usó-Canós (corresponding autor)