

Ocean Sci. Discuss., author comment AC2  
<https://doi.org/10.5194/os-2021-109-AC2>, 2022  
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## Reply on CC1

Didier Bernard et al.

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Author comment on "Clustering analysis of the *Sargassum* transport process: application to beaching prediction in the Lesser Antilles" by Didier Bernard et al., Ocean Sci. Discuss., <https://doi.org/10.5194/os-2021-109-AC2>, 2022

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Dear Dr Nathan Putman, we thank you for your helpful comments and suggestions. Your two last remarks dealing with the integration of *Sargassum* abundance in the decision support system and your suggested reference "Trinanes et al. (2021)" were very useful to strengthen and improve the predictive model. The predictive model originally based on circulation/wind/past-beachings was modified with a new module based on satellite observations which produces the weekly probability to reach the maximum observed cumulative floating algae density in an area of 100 km radius offshore Guadeloupe.

Please find in the attached file our answers to your comments.

Please also note the supplement to this comment:

<https://os.copernicus.org/preprints/os-2021-109/os-2021-109-AC2-supplement.pdf>