

RESPONSE TO EDITOR'S COMMENTS

Manuscript Title: Tidal signatures on surface chlorophyll *a* concentration in the Brazilian Equatorial Margin

Manuscript ID: EGUSPHERE-2025-2307

Journal: Ocean Science

Dear Editor,

We sincerely thank you for your comment. Below, we provide a point-by-point response.

Sincerely,

Dr. Carina Regina de Macedo, Dr. Ariane Koch-Larrouy, Prof. José Carlos Bastos da Silva, Dr. Jorge Manuel Magalhães, Dr. Fernand Assene, Dr. Manh Duy Tran, Prof. Isabelle Dadou, Mr. Amine M'Hamdi, Dr. Trung Kien Tran, and Dr. Vincent Vantrepotte

Note: In the revised manuscript, all modifications are marked in red.

REVIEWER 1'S COMMENTS:

Dear Dr. de Macedo,

Thank you for revising your paper. I am happy that you have satisfied the reviewer's comments and happy to accept your paper for publication into Ocean Science.

One very minor technical point that you should fix is on L62 where you state that the spring-neap tidal period is "approximately 14.675 days". This should be 14.77 days, which is the beating period of M2 and S2, or the MSf period.

Response: We agree with the Editor's comment and have changed the tidal period to 14.77 days:

Lines 62-63: Tides are characterized by spring-neap tidal cycles (fortnightly cycles, approximately 14.77 days), which impact water mass properties.

Kind Regards,

Matt Rayson