

Interactive comment on “Natural events of anoxia and low respiration index in oligotrophic lakes of the Atlantic Tropical Forest” by H. Marotta et al.

Anonymous Referee #1

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In this manuscript, Marotta et al. assess the partial pressure of O₂, CO₂ and the Respiratory Index (RI) in two oligotrophic lakes of the Tropical forest over 19 months. The authors try to test the hypothesis that thermal stratification is coupled with natural hypoxia in deep water of both lakes.

Overall, it is well-written manuscript where new data on pO₂, pCO₂ and RI are reported for tropical lakes, in a not-well studied area. The methods and statistical analysis used are explained well. The manuscript is well structured and clear. I think that the manuscript deserves publication in Biogeosciences.

There are, however, some minor points that authors should revise in a new version of the manuscript:

C1308

L. 5. I suggest change “and” by a comma.

P.4227. L.10. I do not see why the consequence is that lakes may show net autotrophy. I think that the authors should explain better this point.

P.4228. L.12. I suggest change “Here, the aim” by “The aim of the present study”

P. 4234. L.17. I suggest to change “we were unable to reject” by “we confirm”

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