<center>**Response to the Reviewers**</center>

Reviewer: 1

Q: Thank you for your revision. I am still confused with the new result (Fig.S7). Now the slope between observed DOC and predicted DOC is 0.73. This means that when the observation is 1000, the prediction is 730, with an mean bias of nearly 30%. If it is so, I am not convinced that your ML algorithm did a good job, even though the R^2 is acceptable.

Re: Thanks for your comment and suggestion. Due to the inversion of the data on the X-axis and Y-axis, we have corrected the graph and its values. Everything is fine in the current version. Thank you again.