

Biogeosciences Discuss., referee comment RC2  
<https://doi.org/10.5194/bg-2021-224-RC2>, 2021  
© Author(s) 2021. This work is distributed under  
the Creative Commons Attribution 4.0 License.



## Comment on bg-2021-224

Anonymous Referee #2

---

Referee comment on "Reconstruction of global surface ocean  $p\text{CO}_2$  using region-specific predictors based on a stepwise FFNN regression algorithm" by Guorong Zhong et al., Biogeosciences Discuss., <https://doi.org/10.5194/bg-2021-224-RC2>, 2021

---

The stepwise FFNN looks like a innovative new approach to enhance the widely popular SOM-FFNN method. The stepwise method is tested using a very comprehensive list of predictors used elsewhere in the literature. The method building component looks thorough, congrats. The prediction of  $p\text{CO}_2$  based on region-specific predictors selected by the stepwise FFNN algorithm will be a valuable tool when moving to higher resolution, inside regional studies, or getting closer to shore. There are a number of grammatical errors that will need to be cleaned up by the authors or the journal team.

Please also note the supplement to this comment:

<https://bg.copernicus.org/preprints/bg-2021-224/bg-2021-224-RC2-supplement.pdf>