

Biogeosciences Discuss., referee comment RC2
<https://doi.org/10.5194/bg-2021-224-RC2>, 2021
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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>