

The review is well-thought out and well-researched, not only the math behind it but also the realistic science behind what is going on in the lake. The model was well-informed by current research. I maybe would have liked to see a more nuanced windspeed function than simply the average (maybe a fourier series over the year?) although that is an admittedly difficult (not to mention random) problem to model. The equation was well-thought out and the dimensional analysis carefully analyzed. However, possibly find equilibria? What would equilibria mean for your model? That feels like an important modeling scenario, especially in this context where we are talking about the stability of an ecosystem that affects millions of people. Would that equilibrium be stable or unstable? Also, what is your source of the constant κ , meaning where is the scientific backing behind it? As in, are you sure that there is a daily constant influx of pollutants you can model in this way? Spelling and grammar are pretty good, some typos and misspellings but those are less important. Overall, great effort!