

Review comments (2nd round) for the manuscript “Simulating vertical phytoplankton dynamics in a stratified ocean using a two-layered ecosystem model” by Zheng et al.

Reviewer: Camila Serra Pompei (DTU).

I appreciate the efforts of the authors to perform the sensitivity analysis that I requested. The authors have also clarified some of my questions. There is only one minor thing that was not fully addressed. When I requested a figure showing field Chl data, I meant to show the actual Chl concentration (i.e. x-axis time, y-axis depth, z-axis Chl concentration), not only the depths where they were sampled (figure A1 in the new manuscript version). It would be great if the figure could be updated. This is relevant because it gives a notion to the reader about how Chl is distributed across depth, and what the two simulated layers are supposedly modelling. Other than that, the manuscript looks good to me.