

General Comments

The updated manuscript "*Physiological flexibility of phytoplankton impacts modeled chlorophyll and primary production across the North Pacific Ocean*" by Y. Sasai and colleagues highly improve the clarity and readability of the manuscript. However, I have found several grammatical mistakes and incomplete sentences that should be looked at before submission. The authors have responded to my reviewed concerns, and I am happy to recommend this manuscript for acceptance with minor revisions, as it provides valuable results that are important for the future implementation of plankton community models. However, authors should go over the manuscript and correct any grammar mistakes.

Minor comments:

L80 – remove “of”

L80 – add “a” after have

L80 – change food-web to “food web” to be consistent with how you write it in the introduction [L23]

L81 – “dissolved” instead of dissolve

L94 – replace “the” to “a” before physical ocean model?

L95 – replace including to “that includes”

L104 – add “the” after performing and before coupled

L125 – specify what “Its” is referencing.

L161 – add “the” after is and before potential uptake rate

L409 – “Because the nutricline depth ...” is not a full sentence, please correct.

L415 – “,” after 9c

L430 – correct suporal to “subpolar”

L450 – remove comma before and

L452 – remove space after Smith

L457 – change its to it

L457 – add comma after nutrient

L462 – “With respect to food ...” this is not a complete sentence. Please correct.

L478 – add comma after future

L482 – comma before “and recycling”