

Interactive comment on “Unique role of jellyfish in the plankton ecosystem revealed using a global ocean biogeochemical model” by Rebecca Mary Wright et al.

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We sincerely thank the reviewer for their insightful comments, which have greatly helped to improve and clarify our manuscript. We respond in detail to each comment in the attached document and clarified the points raised by the reviewer. In response to these comments we have implemented the following general changes:

- All parameter values for the jellyfish PFT have been added, with the expansion of tables in the main manuscript and the addition of tables in the appendices, along with further descriptions of the model structure and additional equations. - Carbon and primary production have been added to the results section and discussion, along with

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diagrams of the carbon flow within the model. - The discussion has been expanded throughout to about twice its original length. We provide full details in the attached, with our replies to reviewers' comments in blue, and the new text provided in the manuscript highlighted in red.

Rebecca Wright, on behalf of the author team.

Please also note the supplement to this comment:

<https://bg.copernicus.org/preprints/bg-2020-136/bg-2020-136-AC1-supplement.pdf>

Interactive comment on Biogeosciences Discuss., <https://doi.org/10.5194/bg-2020-136>, 2020.

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