

## Answer to comments by editor

Thank you for revising your manuscript title and model name. However, per our guidance, can you please add a version number as well? Given that this model will likely be revised into the future, it is important that the version described here has a unique identification. Perhaps "LIGHT-bgcArgo-1.0" or similar?

We have added the version number "1.0" as suggested throughout the manuscript.

Referee 1 noted: "Figure 9a: the float estimates appear to have a higher mean value than the Eulerian values. Is this from a sampling bias in the floats?". In your response you provided a satisfactory answer to this point, but this information - which may assist other readers - does not appear in the manuscript (or, at least, I cannot find it). Could you please add this information?

We have added the following sentence to the result section 3.3.4:

*"We acknowledge that the sampling time of all floats (midnight Greenwich Mean Time) likely causes a slight systematic discrepancy between the full-day average of the Eulerian model output and the synthetic float-based estimates (see Fig. 9a)."*