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Dear Dr. Akihiko Ito

Thank you for your comments, and for giving us another opportunity to revise and improve our manuscript. Thanks also for recognizing that the previous version was fairly improved despite the lack of statistical comparisons, which for this particular case are not appropriate given that we actually know the complete distributions of ages and transit times. We appreciate that you recognize this, and that the manuscript is a valuable conceptual study.

This new version of the manuscript addresses the spike in root carbon that reviewer 3 and you pointed out. We made the suggested corrections of the initial values of root C, and consequently obtained new simulations. This means that all of the original plots and tables have slightly changed, and therefore we are submitting a revised version that includes new versions of most figures. These changes, however, had no impact on the overall message of the manuscript.

We hope that we addressed this new version is suitable for publication.

Sincerely,

Verónica Ceballos-Núñez

