

Interactive comment on “Carbon allocation to biomass production of leaves, fruits and woody organs at seasonal and annual scale in a deciduous- and evergreen temperate forest” by M. Campioli et al.

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We took into great consideration the concern and suggestions from the Reviewers and we have been working on an improved version of the manuscript. The new version of the manuscript will be shortly evaluated by co-authors for final approval and will be submitted to BG in due time.

In the revision, much attention has been given to the GPP estimates. For the beech site, we were able to provide GPP estimates with five different methods (comprising

C5451

different footprint analysis, different gapfilling and partitioning methods) from which an indication of uncertainty can be derived. For the pine stand, we realized that the site heterogeneity was too large to provide estimates of GPP sufficiently accurate for a C allocation study linking GPP to NPP of a target ecosystem. We therefore decided to remove the pine stand and the section on inter-species comparison, and instead fully focus the manuscript on the temporal variability of the NPP-GPP ratio, considering both seasonal and interannual variability. The new analysis have been conducted with great care to uncertainties, both of GPP and NPP, providing information about significance level of variation of NPP-GPP ratio at the different temporal scales.

We are very satisfied of the revision we have nearly completed and as mentioned above, we will re-submit soon. We thank the Reviewers for their important input and constructive comments. Answers to their comments have been posted. A second version of such answers (with detailed reference to paragraphs and lines of the new manuscript) will be submitted together with the new version of the manuscript.

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C5452