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Interactive comment

Interactive comment on "The European forest sector: past and future carbon budget and fluxes under different management scenarios" by Roberto Pilli et al.

Roberto Pilli et al.

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Many thanks for this critical and constructive review. As suggested, we may add a box-and-arrow figure (Figure 1 reported below), highlighting the annual fluxes between the pools and the annual stock change. This may certainly help the reader to summarize the net fluxes between the pools, including the difference between the Net Carbon Stock Change (i.e., -109.5 TgC, reported as C removals from the atmosphere) and the Net Sector Exchange, due to the HWP pool. Based on this figure, we see that "living biomass" and "felling" (including removals and harvest primary residues), have a positive net C balance. The negative balance reported for dead wood and litter is probably influenced by the (average) effect of the natural disturbances occurred during

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input of the period 1990-1995. The same authors, however, highlighted the lack of em-

pirical data to estimate the C stock in the soil. Thank you for your specific comments on the text, they will be included in the revised version of the manuscript.

Additional references: Wutzler, T. and Reichstein, M. Soils apart from equilibrium -Consequences for soil carbon balance modelling. Biogeosciences 4, 125-136, DOI: 10.5194/bg-4-125-2007, 2007

Interactive comment on Biogeosciences Discuss., doi:10.5194/bg-2016-525, 2016.

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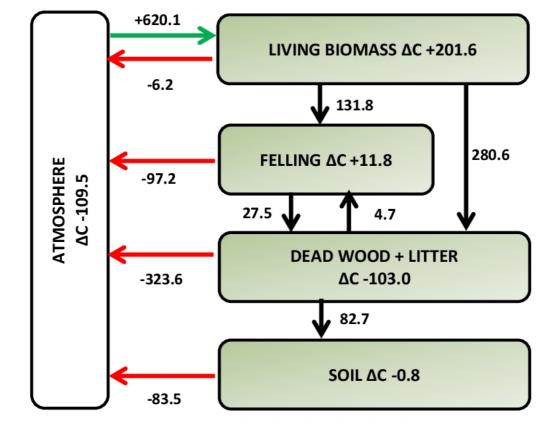


Fig. 1. Figure 1: summary of the average C increment and transfers between forest pools and with the atmosphere (in Tg C yr-1, for the historical period 2000 - 2012).

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