

Interactive comment on “Recovery of GPP monthly pattern in a eucalypt site in Portugal after felling” by A. Rodrigues and G. Pita

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General comment Grateful to the comments of referee #1, we revised the first part the manuscript (Introduction section) focusing in some established characteristics of coppiced eucalypt stand after hydrological and physiological studies in E.globulus whereby the maintenance of a viable and mature root system is crucial to promote a fast height growing of young plants after felling. The main effects of the drought were analyzed in another paper (Rodrigues et al 2011) Moreover our data, in an ensemble of plants with imbalanced aerial/root biomass, showed that this growing was simultaneous to a carbon assimilation in July-August usually when ,under intense summer water stress, stomatal control acts to prevent water losses almost stopping thereby carbon uptake; The almost opposite pattern in GPP reflects the fact that in

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the young plants GPP peaks in July-August and diminishes in winter, especially in January, and in mature trees, GPP is diminished in Summer, due to water stress and continues for the whole year; Specific comments: 1- We added some detail to eddy covariance methodology about the corrections applied and also added information about carbon biomass remaining after felling; 2- We changed the number of significant digits to one decimal in Table 1; 3-The recovery of monthly pattern of GPP assimilation in the main point of this paper and is justified in the general comments;

Please also note the supplement to this comment:

<http://www.biogeosciences-discuss.net/8/C1558/2011/bgd-8-C1558-2011-supplement.pdf>

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