

Interactive  
Comment

***Interactive comment on “Needle age-related and seasonal photosynthetic capacity variation is negligible for modelling yearly gas exchange of a temperate Scots pine forest” by M. Op de Beeck et al.***

**M. Op de Beeck et al.**

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Dear Dr. Letts,

We are very grateful for your constructive and positive comments on the manuscript. As you mention in your comment, our model showed that intensive whole-year field campaigns may yield little benefit in terms of predicting GEP and E<sub>can</sub> for the type of canopy we studied. We strongly believe that the method of using a multi-layered process-based is a very useful method to quantify sources of bias on canopy gas ex-

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change predictions under simplification, e.g. in land surface schemes. In this light, process-based canopy models offer a great tool to guide the economic use of research resources. We hope that in the future this method will be applied for other types of Scots pine canopies and conifer stands.

Sincerely, M. Op de Beeck

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Interactive comment on Biogeosciences Discuss., 6, 9737, 2009.

**BGD**

6, C3552–C3553, 2009

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