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Climate of the Past Discussions

# *Interactive comment on* "Climate and modulate the balance and signal in simulated vegetation" *by* O. Flores et al.

**O. Flores et al.**

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We are conscious the paper needs improvement as far as the English is concerned. We are currently deeply revising the manuscript according to your remarks. We agree that the aim has to be made clearer, especially in the abstract. We are correcting sentences that were not accurate enough and we are also revising the logical structure of the arguments.

Here we do not respond to all the comments in detail because many of the remarks relate to poor expression. We will hopefully make the arguments clearer in the revised version by taking all the comments into account.

Response to detail comments:



- the 50 years were changed (not needed indeed) to a less assertive statement, - ÂńÂă-conflicting evidenceÂăÂż removed from the abstract and detailed in the introduction. - It's not the C3 and C4 plants that cannot be considered as a binary scheme but the competition between them, but sentence changed anyway.

Regarding the circularity in the methods: we use climatic anomalies obtained from pollen-based climatic reconstructions to infer changes in two vegetation characteristics between the LGM and modern times. However, the model we use is process-based and completely independent from paleodata (pollen records) and neither does it make hypotheses on paleaovegetation distribution. Also, we do not aim to reconstruct the vegetation per se, but either two integrated features widely studied in the literature (the C3/C4 balance and the delta C13 signal). We then compare these reconstructions with empirical evidence.

Interactive comment on Clim. Past Discuss., 5, 1187, 2009.