

## ***Interactive comment on “Effect of vegetation on the Late Miocene ocean circulation” by G. Lohmann et al.***

**G. Lohmann et al.**

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We thank for your suggestions which have been inserted into the revised manuscript. Through new figures (related to the hydrological cycle, wind stress, and vegetation), we sharpened our main results and conclusions.

Specific Recommendations:

1. Introduction: We modified the text in the second paragraph of the introduction as suggested. Furthermore, we included more references (e.g., Moran et al., 2006, Fauquette et al., 2006). Here, we concentrate on the Tortonian climate and avoid discussion about the Mid-Miocene which will be the subject of another paper.
3. Results: Now, we present the dominant vegetation maps for the Torton in Fig. 2. The strongest changes are indeed over entire North Africa. We clarified this point and

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changed the discussion accordingly.

Legend of Fig. 1 was changed as suggested

4. Discussion: We specified the point of “the vegetation effect on the ocean circulation” and present more arguments by showing the hydrological cycle.

We removed some typographical errors and errors in the reference list.

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2, S742–S743, 2006

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