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eEarth Discussions

Interactive comment on "Late Pleistocene paleoproductivity patterns during the last climatic cycle in the Guyana Basin as revealed by calcareous nannoplankton" *by* G.-E. López-Otálvaro et al.

G.-E. López-Otálvaro et al.

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Dear Dr. Silvia Spezzaferri,

We appreciate your suggestions that have improved our manuscript.

1. The fraction >63 μm could be studied to analyze the appearance and disappearance of *P. obliquiloculata* on that fraction. However, our biostratigraphic framework is based on the study published by Kennett & Huddlestun (1972) for the Western Tropical Atlantic and this work was based on the fraction >175 μm.

2. The planktonic foraminifer analysis could provide an additional tool to understand

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sea surface dynamics in the WTA; they look more sensitive than calcareous nannoplankton to temperature conditions. However, planktonic foraminifers were only studied for biostratigraphic purposes and they were not analyzed in quantitative terms; for this reason, this information can not be provided in our manuscript.

3. The discussion and conclusions sections were reorganized and clarified.

4. As explained in the discussion, the depth of the nutri-thermocline during interglacials is mainly controlled by a northward migration of the ITCZ. We think that this explanation is clear now in the discussion section.

5. The influence of a possible nutrient input from the continent is discussed in the text, although we have no direct evidence about that.

Interactive comment on eEarth Discuss., 3, 11, 2008.