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Comment

***Interactive comment on “Carbon and nitrogen uptake in the South Pacific Ocean: evidence for efficient dinitrogen fixation and regenerated production leading to large accumulation of dissolved organic matter in nitrogen-depleted waters” by P. Raimbault and N. Garcia***

**P. Raimbault and N. Garcia**

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We greatly thank the referee for the deep review, and we apologize for the very poor English of the initial version. The manuscript has been modified according to the referee's suggestions (see below) and take into account the 7 specific comments. The revised version is actually corrected by a native English.

First, we agree with the referee that our data do not establish a significant link between DOM accumulation and rates of primary production. Thus, this part has been deleted

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from the discussion. The figure has been eliminated.

Second, in agreement with referee suggestion, a deeper interpretation of N<sub>2</sub>-fixation data has been done. The final part of the discussion section is now essentially dedicated to the importance of N<sub>2</sub> fixation in the South Pacific in regards to 1) the new results from Deutsch et al. (2007) and 2) the presence of large populations of picocyanobacteria, as revealed by epifluorescence microscopy (Masquelier and Vaultot, this issue).

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Interactive comment on Biogeosciences Discuss., 4, 3531, 2007.

**BGD**

4, S1971–S1972, 2007

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