

Interactive comment on “Nutrients limitation of primary productivity in the Southeast Pacific (BIOSOPE cruise)” by S. Bonnet et al.

S. Bonnet et al.

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Referee #1.

Comments on the manuscript Nutrient limitation of primary productivity in the Southeast Pacific (BIOSOPE cruise)

Authors: Sophie Bonnet, Cécile Guieu, Flavienne Bruyant, Ondrej Práčil, France Van Wambeke, Patrick Raimbault, Carolina Grob, Thierry Moutin, Max Y. Gorbunov, Jonathan P. Zehr, Sylvie M. Masquelier, Laurence Garczarek, Hervé Claustre

Dear Lucas Stal,

We are pleased to provide below answers to your comments, as well as a revised version of our manuscript. We made our best to take into consideration your different comments have been very constructive for us.

- The term nitrogen fixation has been replaced by dinitrogen fixation and was kept consistent throughout the manuscript.
- The terms nitrate and NO₃ have been replaced by NO₃⁻ and also kept consistent throughout the manuscript.
- The reference Karl et al., 2002 has been added in the reference list
- The forms of nitrate and ammonium added (NaNO₃ and NH₄⁺) have been added in the method section.
- P. 2741, line 18: (2m at what setting) has been deleted.
- P. 2742, the term relatively has just been deleted
- P. 2745, lines 2 and 6: the term picoeukaryotes has been written properly throughout the manuscript.
- P. 274511: the term larger has been deleted and replaced by in the size class 1-3 μm.
- P. 2747, line 23: à as been changed for at.
- P. 2747, Line 24: the term very has been deleted.
- P. 2748, line 9: the expression and easily amplified has been deleted
- P. 2748, Line13: the ref Karl et al.,1997 has been deleted (it appears at the end of the sentence)
- P. 2748, line15: origin has been replaced by origins and the term non-depleted has been deleted
- P. 2748, line 18: the term very has been deleted .
- Table 1: NO₃⁻, PO₄³⁻ have been used. The NO₂⁻ and NH₄⁺ concentrations have been added
- Table 2: the superscript a has been explained

Thank you very much for your attention to our study,

Very sincerely,

Sophie Bonnet

Interactive comment on Biogeosciences Discuss., 4, 2733, 2007.

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