

## ***Interactive comment on “Poor correlation between phytoplankton community growth rates and nutrient concentration in the sea” by A. Regaudie-de-Gioux et al.***

**A. Regaudie-de-Gioux et al.**

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Biogeosciences Biogeosciences Editorial Office

Dear Co-Editors-in-Chief and Associate Editor,

Please find attached the revised version of our manuscript “Poor correlation between phytoplankton community growth rates and nutrient concentration in the sea” (bg-2014-439) to be considered as a review manuscript. We have carefully considered the constructive comments by the reviewer 2 in preparing the revised version of the manuscript. We have thoroughly revised the original version to address all the comments raised by the reviewers.

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In particular, we discussed in detail about the limitation of our results considering the iron limitation from HNLC zone and the methodology bias for oligotrophic waters. We discussed also about the use of trade-offs between  $K_s$  and  $\mu_{max}$  in modeling. We added new results of phytoplankton community growth rates data calculated from another methodology (primary production and standing stocks).

We believe, that as a result of these changes, the manuscript is now much improved relative to that originally submitted, and hope that you would find it now acceptable for publication in Biogeosciences.

Sincerely, Dr. Aurore Regaudie-de-Gioux

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Interactive comment on Biogeosciences Discuss., 11, 14797, 2014.