

***Interactive comment on “Combined effects of elevated  $p\text{CO}_2$  and temperature on biomass and carbon fixation of phytoplankton assemblages in the northern South China Sea” by G. Gao et al.***

**Anonymous Referee #1**

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The work in this ms is an important contribution to the understanding of the combined effects of elevated carbon dioxide and temperature on biomass and fixation of phytoplankton. In the past the effects were determined individually and under laboratory conditions. It is important to do the monitoring under combined ecological factors and in the real settings in the ocean. There are a number of errors and queries which I have indicated in the corrected PDF of the ms.

Please also note the supplement to this comment:

<http://www.biogeosciences-discuss.net/bg-2016-403/bg-2016-403-RC1-supplement.pdf>

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C1

Interactive comment on Biogeosciences Discuss., doi:10.5194/bg-2016-403, 2016.

C2



1 **Combined effects of elevated pCO<sub>2</sub> and temperature on biomass and carbon**  
2 **fixation of phytoplankton assemblages in the northern South China Sea**  
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**Fig. 1.** corrected pdf of ms