

***Interactive comment on “Observed increase in
springtime surface partial pressure of CO₂ in the
east equatorial Indian Ocean during 1962–2012”
by L. Xue et al.***

L. Xue et al.

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Received and published: 27 April 2014

Dear reviewers,

We appreciate your constructive suggestions and positive comments. We feel these suggestions and comments will improve our manuscript a lot. On the basis of your comments and suggests, major revisions have been made in the revised manuscript, primary changes including: (1) clarifying and emphasizing on the implications of this manuscript in science, (2) adding the description of the accuracy of 2012 data, (3) considering the pCO₂ seasonality as well as data heterogeneity spatially, (4) identifying quantitatively the contribution of temperature, salinity, dissolved inorganic carbon

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(DIC) and total alkalinity (TA) on pCO₂ increase, (5) conducting in-depth analysis of the influence of pCO₂ increase on air-sea CO₂ flux and ocean acidification, and (6) improving and polishing the language of this manuscript. We hope that you will find the revised manuscript will be more impressive and do some contributions scientifically after major revision. Attached we provide a detailed response to each comment.

Sincerely,

Liang Xue

Please also note the supplement to this comment:

<http://www.biogeosciences-discuss.net/11/C1306/2014/bgd-11-C1306-2014-supplement.pdf>

Interactive comment on Biogeosciences Discuss., 11, 521, 2014.

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