

Interactive comment on “Trends and drivers in global surface ocean pH over the past three decades” by S. K. Lauvset et al.

S. K. Lauvset et al.

siv.lauvset@gfi.uib.no

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This supplement is a tracked changes version of the revised manuscript. Major revisions are as follows:

1) The text has been revised according to all the reviewers' suggestions. In particular the description of changes in ocean CO₂ chemistry due to changes in Revelle factor in the introduction has been significantly revised, as has the description of how we calculated the pH change expected from a certain change in fCO₂. 2) Some sections have been revised and simplified to improve the overall readability of the manuscript. 3) Since Figure 7 was referred to in the text after Figures 8-10 we have changed the numbering: what were Figs. 8-10 are now Figs. 7-9 and what was Fig. 7 is now Fig. 10. 4) Most of Section 3.4 has been rewritten and for clarity, and the argument has

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been lengthened some to aid readability. 5) Figures 2-4 and 7-9 have been altered and now only show the pH data, trends, and statistics. The information on fCO₂ trends is retained only in the tables (Tables 1-3). 6) Figure 5 has been remade and replaced as there was an error in the original version (some biomes were mislabeled).

Please also note the supplement to this comment:

<http://www.biogeosciences-discuss.net/11/C8667/2015/bgd-11-C8667-2015-supplement.pdf>

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