

## ***Interactive comment on “N/P ratio of nutrient uptake in the Baltic Sea” by Z. Wan et al.***

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The manuscript has now been reviewed by two referees and their responses answered up by the authors. I have followed the discussion with interest. The paper address a very interesting subject, that has been ignored by most models till now.

The main criticism from both referees are on the simplifications of the ERGOM model and changes of parameters. Before resubmission the authors should either consider to redo some experiments with the original settings for comparison, or make a better justification for the changes done. Also, the original model are run and tuned using a different physical model. It has been shown for other models that this make a big difference in the biochemical model outputs. Therefore I would like to see a more detailed discussion (or some real comparison with the Neumann articles) on the effect of this change.

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Referee number 2 raise the question if the main purpose is just to fit a model to data, and that tuning of other parameters than the N/P ratio could obtain similar results. Similar to the questions above on physics and the model changes, this should be discussed properly in a resubmission, together with the other remarks from referee 2 that I do not find properly answered.

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Interactive comment on Ocean Sci. Discuss., 8, 1233, 2011.

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