

## ***Interactive comment on “Modeling ocean circulation and biogeochemical variability in the Gulf of Mexico” by Z. Xue et al.***

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In general, the paper is an excellent contribution to modeling of nutrients and nutrient budgets in the Gulf of Mexico. Ample discussion of river discharge as well as underlying circulation sets a solid background for the primary conclusions. However, the paper becomes redundant at times, and any text or figure discussing the Atlantic Basin, though of value, is distracting from the focus –the Gulf of Mexico analysis.

The text (and related figures) needs a few more editorial passes (by the authors) to have more fluidity of content and to correct various typographical issues and contextual consistency (i.e. "fall" or 'autumn") throughout.

Detailed suggestions and technical corrections are embedded in the attached PDF

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file. A revised paper would be expected to have 5-6 less pages.

Please also note the supplement to this comment:

<http://www.biogeosciences-discuss.net/10/C3680/2013/bgd-10-C3680-2013-supplement.pdf>

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Interactive comment on Biogeosciences Discuss., 10, 7785, 2013.

**BGD**

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