

Interactive  
Comment

***Interactive comment on “Environmental variations in a semi-enclosed embayment (Amvrakikos Gulf, Greece) – reconstructions based on benthic foraminifera abundance and lipid biomarker pattern” by S. Naeher et al.***

**H. Filipsson (Referee)**

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Dear Editor Thank you for giving me the opportunity to review the manuscript " Environmental variations in a semi-enclosed embayment (Amvrakikos Gulf, Greece) – reconstructions based on benthic foraminifera abundance and lipid biomarker pattern" by Naeher et al submitted to Biogeosciences, special issue.

The authors detail the environmental history over the last 100 years in the western part of Amvrakikos Gulf by analyzing two sediment cores and their content of benthic

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foraminifera and lipid biomarker concentrations.

I have read the manuscript with great care and made numerous comments, see attached pdf.

My main critics are:

The aim of the study. The authors seem to be very fixed on the eutrophication idea and it seems to be common knowledge that the area is eutrophic, then why did the authors perform the study? What new knowledge did this study contribute with?

The manuscript must be structured in a more orderly fashion. As it is now, it is a mix between results and discussion in the result sections. The two cores are compared and discussed in the result section, something which clearly belongs to the discussion.

I would like to see the age model presented and discussed since it is of vital importance to understand and detail when the environmental changes occurred and to determine how reliable the chronology is.

The authors would be helped by a professional English grammar and spelling check. I have changed some but I'm not a native speaker.

Please also note the attached comments in the manuscript, which also need to be addressed. I would recommend the editors to accept the manuscript with major revision. Kind regards, Dr Helena L. Filipsson, Assoc. Prof.

Please also note the supplement to this comment:

<http://www.biogeosciences-discuss.net/9/C4104/2012/bgd-9-C4104-2012-supplement.pdf>

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Interactive comment on Biogeosciences Discuss., 9, 7405, 2012.

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