

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.

Anonymous Referee #1

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This is a very well-written manuscript. I am not a foram expert, but from the geochemical viewpoint the biomarker data is well-described and discussed carefully.

I have a few (minor) comments:

Dinosterol can indeed be derived from diatoms, but is the absence of C22:6 FA that essential to rule out dinoflagellates? Were there no dinoflagellate cysts found when looking for forams?

Silylation is followed by methylation. In that case also fatty acids are silylated and

C4038

cannot be converted to FAMES. Most likely it was done the opposite way?

P. 7418, 2nd paragraph: Were the average chain lengths (of the n-alkanes including those < C20) in Amvr13 and 15 also different? Higher ACL indicate higher terrestrial OM contribution.

p.7415, line 12; p.7418, line 27; p. 7419, line 3: change ‘for’ to ‘of’.

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