

Interactive comment on “Salinity changes in the Agulhas leakage area recorded by stable hydrogen isotopes of C₃₇ alkenones during Termination I and II” by S. Kasper et al.

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All the four reviewers recommend “major revision” for this manuscript and for largest parts agree about the reasons, with referee 1 expressing him/herself most explicitly. The discussion lacks clearly new paleoceanographic insights and nothing is added to the existing literature w.r.t. the temperature reconstructions.

What is new is the “organic” salinity proxy application and all reviewers agree upon this, too.

I would like the paper to be focused on this and detailed comments by the referees implemented. The qualitative reconstruction of salinity changes through time needs

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some more discussion: How is it possible that salinity increases while $\delta^{18}\text{O}$ of the water remains nearly unchanged?

Plots of T reconstruction should be used only for comparing $\delta^{18}\text{O}_w$ (as proxy for salinity) with the δ^D results.

All further comments of the referees should be carefully addressed.

Interactive comment on Clim. Past Discuss., 9, 3209, 2013.

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