

Interactive comment on “Intense photooxidative degradation of planktonic and bacterial lipids in sinking particles collected with sediment traps across the Canadian Beaufort Shelf (Arctic Ocean)” by J.-F. Rontani et al.

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This is a well written manuscript and I have only few and minor comments and suggestions for improvement

page 7746 line 6Therefore, it is essential to..... page 7746 lines 12 and 14. Both size indications include 100 microns one of them should be > or < page 7747 line 26. I would use grammes which is a primary SI unit in stead of tons for the entire manuscript page 7753 line 23. The absence of dinosterol doesn't imply the absence of dinoflag-

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ellates since there are several dinos that don't produce dinosterol. See e.g. Leblond, J. D. and Chapman, P. J., 2002. A survey of the sterol composition of the marine dinoflagellates *Karenia brevis*, *Karenia mikimotoi* and *Karlodinium micrum*: distribution of sterols within other members of the class dinophyceae. *Journal of Phycology* 38, 670-682.

page 7755 line 12.to the sedimentary record..... page 7755 line 24.alcohols are only known to occur in.....

page 7758 line 16 micro-environments page 7760 line 18 ...quickly settles to the sea floor....

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