

Interactive comment on “Formation and distribution of sea-surface microlayers” by O. Wurl et al.

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owurl_nautilus@inbox.com

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Dear Editor, Dear Referee's

thank you for your valuable feedback on our manuscript. It was extremely helpful to improve the manuscript. The major changes in the revised manuscript includes the description of surfactant concentrations in the SML and a revised discussion on the observed differences in the enrichment among the trophic states.

We added two tables on statistical data of surfactant concentrations in the SML between different trophic and wind regimes, as well among the different study areas. An additional figure (Fig. 7 in the revised manuscript) shows the significant differences in the surfactant concentration among the trophic states. We used this observation

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to illustrate SML concentrations of surfactants in the global maps (Fig. 8 of revised manuscript) similar to the enrichment.

By including literature from freshwater studies, we realized that our observation of increasing enrichment with diminishing trophic states seems to be a general phenomena, and we have discussed this phenomena in details in the revised text of the discussion.

Please find attached our detailed responses to your comments. On behalf of all co-authors, I thank you again for your time and feedback to improve our manuscript.

Best Regards Oliver Wurl

Please also note the supplement to this comment:

<http://www.biogeosciences-discuss.net/7/C4307/2010/bgd-7-C4307-2010-supplement.pdf>

Interactive comment on Biogeosciences Discuss., 7, 5719, 2010.