

Interactive comment on “Sources of short-lived bromocarbons in the Iberian upwelling system” by S. Raimund et al.

Anonymous Referee #1

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This manuscript appears to still be at the level of a first draft, and is by not remotely ready for submission to a scientific journal. Before it is reviewed for its scientific content it should be carefully read by all of its authors. Thorough rewriting to give clear expression of its arguments should also result in a substantially shorter manuscript.

A few examples of the poor expression of ideas are:

Page 11. Hill and Manley (2009) implicated halocarbon production with temperature adaptation of phytoplankton species:

Page 11. Although bromocarbon concentrations were comparatively low and thus the putitative [sic] role of phytoplanktonic production less important, we found evidences for a weak phytoplanktonic source in our studied area.

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Page 10. However, sources for the Iberian upwelling seem to be higher than those for the Mauritanian upwelling since CH₂Br₂ and CHBr₃ values were significantly lower the off Mauritania coast.

Page 10. Integrated values of CHBr₃ for the entire upwelling (30 pmol L⁻¹) were one order of magnitude lower than for other productive coastal areas . . . and hence do not support the fact that upwelling regions are pronounced “hot spots” for halocarbon formation, as previously assumed

Page 12 Regardless of the purpose of halocarbon . . . the metabolic pathway within phytoplankton seems to be preferable for CHBr₃ and CH₂Br₂.

Page 11 Thus, the above comparison of different studies only roughly enables to identify tendencies of local source strengths

Page 13 The day time showed significant effects on most brominated halocarbon concentrations

Abstract: Coastal sources and transport can be accounted for maximum values of up to 185.1 pmol L⁻¹ CHBr₃

Interactive comment on Biogeosciences Discuss., 7, 8663, 2010.

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