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Biogeosciences Discussions

Interactive comment on "UV/PAR radiations and DOM properties in surface coastal waters of the Canadian shelf of the Beaufort Sea during summer 2009" *by* J. Para et al.

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Your protein component C3 is rather authochtonous than allochtonous. C3 does not correlate with salinity as shown on Fig10. Please correct the explanation in Table 3.

Section 3.2.2 Authors have written that: "The Ex/Em maxima of component 1 (C1) are close to the marine humic-like (M peak) proposed by Coble (1996) and has been reported to be a ubiquitous component derived from the microbial degradation of phyto25 plankton by-products (Nagata, 2000; Stedmon and Markager, 2005; Zhang et al., 2009) and from specific Arctic terrestrial sources at low salinity (Walker et al., 2009)."

The terrestrial source of component similar to your component C1 was found not only

in the Arctic but also is variety of places: in coastal and estuarine water in Japan (Yamashita et al., 2008), at the coast of the south-eastern USA (Kowalczuk et al., 2009) in Liverpool Bay (Yamashita et al., 2011) Hudson Bay (Guegen et al., 2011).

Interactive comment on Biogeosciences Discuss., 9, 15567, 2012.