

Interactive comment on "Study on organic matter fractions in the surface micro layer in the Baltic Sea by spectrophotometric and spectrofluorometric methods" by Violetta Drozdowska et al.

Violetta Drozdowska et al.

drozd@iopan.pl Received and published: 5 June 2017

Thank you very much for reviewing the manuscript and your comments.

I'm making corrections to Reviewer #1 so in 1-2 days I'll put my response to Reviewer #1 and it'll satisfy you comments as well.

Now, I'm refering to the comments of the Reviewer #3.

" So agreeing with most of the commands of my respectable anonymous peer-review

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colleagues, I will just comments on thing which I did not see in their comments. "

1. The fluorescence intensities A, C M and T should be explained in the abstract. Something simple like "fluorescence intensities at Coble classification peaks" should be enough to give some hint to the reader what they are. I'll put into the abstract the information about naming of A, C, M and T as "fluorescence intensities at Coble classification peaks".

2. Units in the figures should be presented in [] braces. I put the all units in the all figures '[]' brackets, except Fig. 1.

3. Date format in Table 1 is certainly not something most English native speakers will recognize. Because of the US/UK dichotomy (09/11/2001 versus 11/09/2001), I suggest using month names explicitly (11 September 2001). The hyphen in "October'2015" is not necessary (at least in two places). One uses it only to shorten the year (October '15). Thank you, I wrote the name of date in Table 1 explicitly.

4. I commend the authors for using unitless practical salinity (as all the relevant standards have it). However, the word "practical" should be added somewhere before salinity to make it obvious that the salinity was not absolute. Thank you. I just put the name "Practical salinity" – as a description of the X axes in Fig.3 and Fig.5.

I put the corrections referring to Reviewr #2 and #3 together to the Corrected Manuscript.

Please also note the supplement to this comment: http://www.ocean-sci-discuss.net/os-2017-4/os-2017-4-AC2-supplement.pdf

Interactive comment on Ocean Sci. Discuss., https://doi.org/10.5194/os-2017-4, 2017.

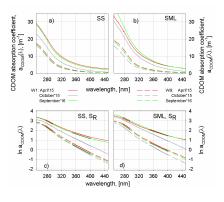


Figure 2. Absorption spectra - collected during three Baltic cruises at 28th April, 2015 (red lines), 15.16^{th} October, 2015 (grey) and 11th September 2016 (green) - for VL (solid lines) and VB (dash lines) station – presented in linear scale (top panels: a, b). Natural log transformed absorption spectra with best fit regression lines for two regions (27.528 nm and 350-400 nm) (bottom panels: c, d).

Fig. 1.

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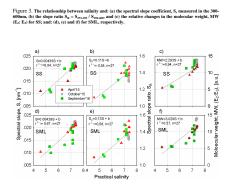


Fig. 2.

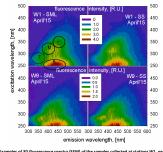


Figure 4. Examples of 3D fluorescence spectra (EEM) of the samples collected at stations W1, near the Vistuli River outlet (top panels) and W9, Gdansk Deep (bottom panels), 28 April 2015.

Fig. 3.

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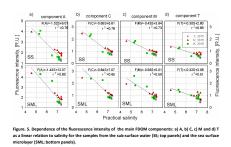


Fig. 4.

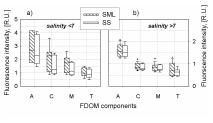


Figure 6. Dependence of the fluorescence intensity of the main FDOM components in SML and SS as the box plots for (a) coastal water (salinity <7) and (b) open sea (salinity >7).

Fig. 5.

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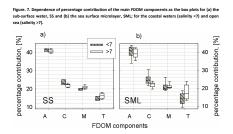


Fig. 6.