

How biogenic polymers control surfactant dynamics in the surface microlayer: Insights from a coastal Baltic Sea study

by Theresa Barthelmeß and Anja Engel

Track of changes

We would like to thank both referees for their contributions. Their comments and suggestions are addressed within the manuscript and have been recorded within this list.

line 71: inserted comma

line 80: the term 'sloppy feeding' has been changed to 'grazing' to use the same terminology as above; inserted comma

Figure 1 (line109): Adjusted resolution of cruise descriptors (AL510 and AL516).

line 119: corrected references style, years of publication in brackets

line 165: missing reference inserted.

line 188: corrected reference style

line 217: inserted 's' to display the plural of enrichment factors (EFs).

line 223: 'not normally' changed to 'non-normally' to comply with further usage.

line 224: 'requisite' changed to 'prerequisite'.

line 241: deleted 's' i.e. 'any effect of season is excluded'

line 256: inserted article, 'the bottom water'

line 257: deleted comma

line 264: 'the' replaced by 'a' speed.

line 268: deleted part of sentence ('seasons' progression') because of repetition.

line 300: typo corrected ('ocured').

from line 316 to line 324: replacing 'from x-x' by 'from x to x'.

line 327: Restructuring of sentence.

line 333: inserted comma.

line 340: 'were' corrected to 'was recorded'.

Figure 8 (line 384): Caption of figure written in present tense; missing brackets inserted.

line 386: inserted comma.

line 388: inserted comma.

line 398: comma deleted.

line 467: typo corrected.

line 473: 'It' replaced by 'this' at the beginning of the sentence.

line 487: 'where' replaced by 'in which'.

line 491: inserted comma.

line 521: The reference was corrected as suggested by **referee #2**.

line 530: to comply with the previous style, EF PCHO and PAA are corrected to lower case and sentence structure was adjusted.

line 554: inserted 'surface' nano-layer for clarification.

line 584: inserted comma, adjusted to 'grazing'.

line 597: inserted comma.

line 608: 'microbially' corrected to 'microbial degradation', citation placement adjusted.

line 636: deleted '~'.

line 647: The conclusion was adjusted according to the comment made by **referee #1** to better include supportive evidence.

from line 660 to 680, Table A2, A3, A5: Bold numbers are explained and significance levels are defined as suggested by **referee #1**.

line 688: Corrected to 'both authors' instead of 'all'.

line 692: Correction of a reference.

line 696: This section now acknowledges also Helmke Hepach for proof-reading the manuscript.

line 745: deletion of a double cited reference.

line 890: insertion of a missing reference.

line 925: Correction of a reference.

from line 1025 to 1032: Deletion of authors first names.

from line 1025 to 1032: Adjustment of first and surname of the first author.

Supplementary Information, Table S1: Station IDs corrected.