

## ***Interactive comment on “Size-fractionated dissolved primary production and carbohydrate composition of the coccolithophore *Emiliana huxleyi*” by C. Borchard and A. Engel***

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General comment:

Referee: Advancing the discussion of the passive versus active release findings and the meaning of the compositional differences in the freshly produced LMW DOM and HMW DOM fractions to their reactivities in the environment would enrich this study. Nice discussion points. However, some additional attention could be given to the resolution of the active versus passive release question that is raised in the Abstract as well as the Introduction – but goes unaddressed in the Discussion in the current form. Discussions of the reactivity of size-fractionated DOM could also be advanced further

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– leading from experimental results to their environmental role.

Response: We discussed these issues in 4.2.2, but we will revise and enhance this paragraph to explicitly state the hypotheses as well as implications.

Specific comments: R#3: Please expand PP upon first mention in p. 1592, line 23.

Response: Done

R#3: Please expand fully TA upon first mention in p. 15295, line 8.

Response: Done

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Interactive comment on Biogeosciences Discuss., 11, 15289, 2014.

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