

Supplement of Biogeosciences, 14, 447–466, 2017
<http://www.biogeosciences.net/14/447/2017/>
doi:10.5194/bg-14-447-2017-supplement
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Supplement of

Ciliate and mesozooplankton community response to increasing CO₂ levels in the Baltic Sea: insights from a large-scale mesocosm experiment

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1 Supplemental material

Pairwise Pearson correlation plots analyzing predator/ prey relationships between Ciliates, MZP, phytoplankton and bacterial groups. The lower panel shows estimated pairwise Pearson correlations with the font size proportional to the absolute value of the estimated Pearson coefficient. The abbreviations of the variables are shown in the diagonal. For ciliates, correlations were done with total cell numbers l^{-1} , for MZP, correlations were done with total abundance of species ($Ind\ m^{-3}$), for phytoplankton groups as $ng\ Chl\ a\ l^{-1}$, CHEMTAX and flowcytometry data as cell numbers ml^{-1} . More details on CHEMTAX and flowcytometry data can be found in Paul et al. (2015) and Crawford et al. (2015). Note: We plotted only predator/ prey groups that showed a correlation coefficient of ≥ 0.7 for particular combinations (compare with Table 2).

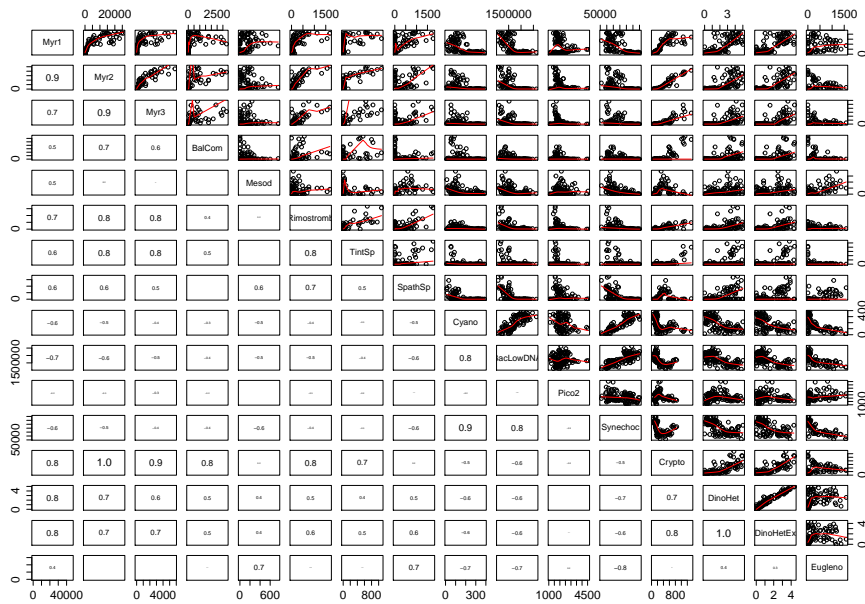


Figure S1. Pearson correlation between *Myrionecta rubra* size classes (Myr1: $\leq 10\ \mu m$, Myr2: $11-20\ \mu m$, Myr3: $> 20\ \mu m$), *Balanion comatum* (BalCom), small *Mesodinium* sp. (Mesod), *Rimostrombidium* sp. (Rimostromb), Tintinnids sp. (TintSp), *Spathidium* sp. (SpathSp), Cyanobacteria (Cyano), Low DNA Bacteria (BacLowDNA), Picoeukaryotes 2 (Pico2), *Synechococcus* (Synechoc), Cryptophytes (Crypto), Heterotrophic Dinoflagellates (DinoHet), Heterotrophic Dinoflagellates excluding *Ebria* sp. (DinoHetEx), and Euglenophytes (Eugleno).

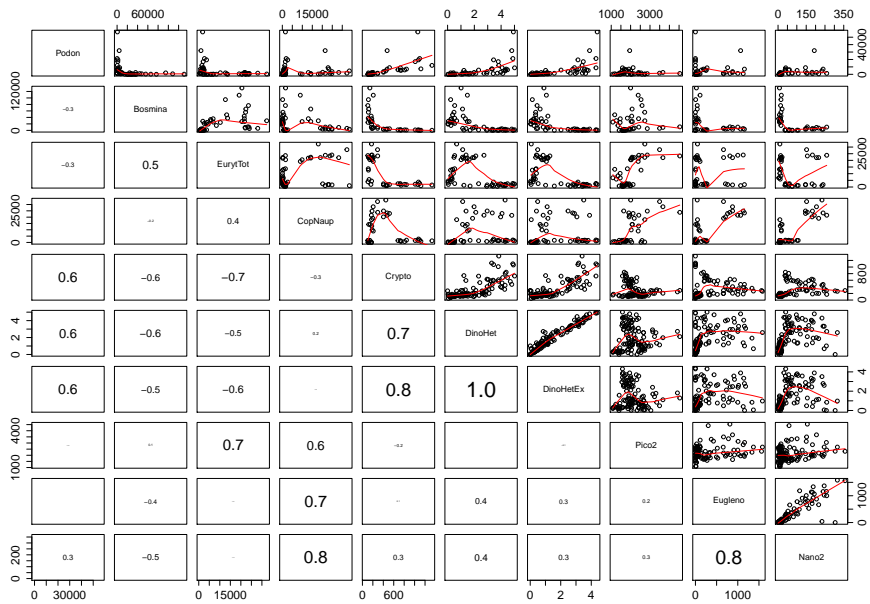


Figure S2. Pearson correlation between *Podon* sp. (PodonTot), *Bosmina* sp. (BosminaTot), *Eurytemora* sp. (Eurytot), Copepod Nauplii (CopNaup), Cryptophytes (Crypto), Heterotrophic Dinoflagellates (DinoHet), Heterotrophic Dinoflagellates excluding *Ebria* sp. (DinoHetEx), Picoeukaryotes 2 (Pico2), Euglenophytes (Eugleno), Nanoeukaryotes 2 (Nano2).