

Species densities, biological interactions and benthic ecosystem functioning: an *in situ* experiment

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Table S1 General linear model summary of variation in surface sediment organic matter content across experimental blocks, over time (1 week, 5 weeks & 9 weeks) and in relation to bulk sediment organic matter content. Significant p-values (< 0.05) are in bold.

Source	d.f.	F	p
Block	3	0.748	0.5301
Time	2	6.937	0.0026
Bulk organic matter content	1	1.215	0.2771
Bulk organic matter content*Time	2	5.702	0.0067
Residuals	39		

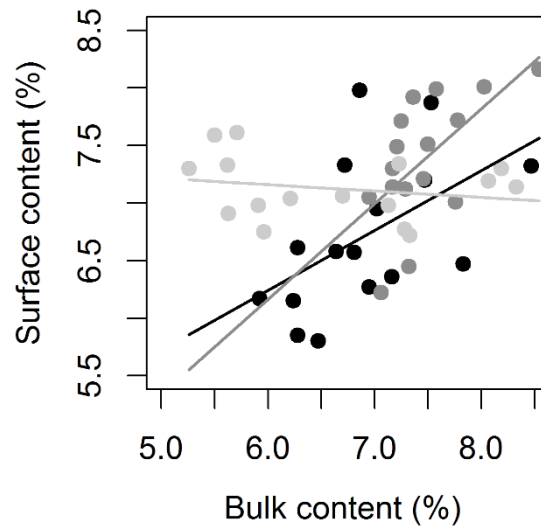


Fig. S1. The relationship between surface (0 - 1 cm) and bulk (0 - 20 cm) sediment organic matter content at T1 (1 week; black), T2 (5 weeks; dark grey) and T3 (9 weeks; light grey).

Table S2. General linear model summary of variation in the density of *Corophium volutator* across experimental blocks, over time (1 week, 5 weeks & 9 weeks) and in relation to the density of *Hediste diversicolor*. Significant p-values (< 0.05) are in bold.

Source	d.f.	F	p
Block	3	3.750	0.0185
Time	2	24.673	< 0.0001
<i>Hediste diversicolor</i>	1	10.702	0.0022
<i>Hediste diversicolor</i> *Time	2	0.063	0.9392
Residuals	39		

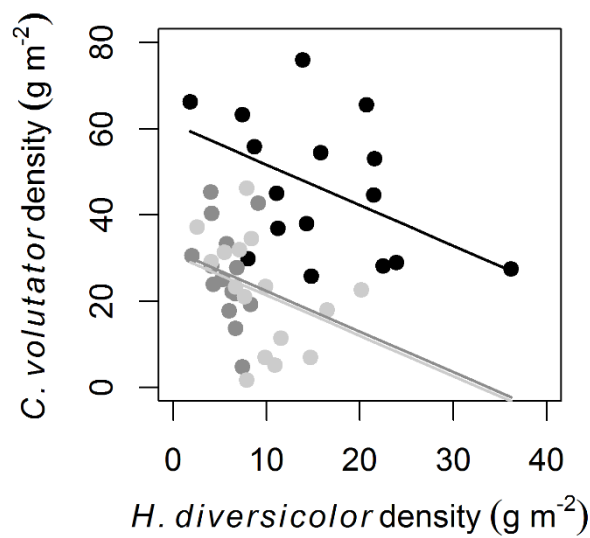


Fig. S2. The relationship between *Corophium volutator* density and *Hediste diversicolor* density at T1 (1 week; black), T2 (5 weeks; dark grey) and T3 (9 weeks; light grey). Trend lines were predicted from a model which did not include interactions between the explanatory variables and time, as these terms were statistically insignificant.