

Supplement of Biogeosciences, 13, 6171–6182, 2016
<http://www.biogeosciences.net/13/6171/2016/>
doi:10.5194/bg-13-6171-2016-supplement
© Author(s) 2016. CC Attribution 3.0 License.



Supplement of

Ocean acidification challenges copepod phenotypic plasticity

Anu Vehmaa et al.

Correspondence to: Anu Vehmaa (asvehmaa@gmail.com)

The copyright of individual parts of the supplement might differ from the CC-BY 3.0 licence.

Table S1. pH values measured before and after the incubations. After incubation pH values for the Baltic are averaged from six measurements.

	pH before – after incubation								
	Day 3		Day 10		Day 17		Day 24		Day 45
	EPR, PL	EH, DI	EPR, PL	EH, DI	EPR, PL	EH, DI	EPR, PL	EH, DI	EPR, PL
MC 1	8.12-8.13	7.97-7.51	8.14-8.18	8.2-7.95	8.08-8.11	8.10-7.96	7.98-8.07	8.05-7.92	7.82-7.82
MC 3	7.50-7.63	7.62-7.61	7.62-7.66	7.67-7.81	7.61-7.64	7.64-7.68	7.59-7.69	7.69-7.72	7.69-7.69
MC 5	8.18-8.07	8.08-7.79	8.10-8.17	8.16-8.00	8.07-8.08	8.10-7.83	7.90-8.00	8.01-7.84	7.85-7.89
MC 6	7.66-7.71	7.66-7.67	7.63-7.73	7.73-7.87	7.72-7.78	7.73-7.69	7.63-7.77	7.76-7.72	7.75-7.73
MC 7	7.97-7.85	7.82-7.69	7.90-7.97	7.95-7.90	7.91-7.94	7.89-7.74	7.84-7.88	7.90-7.82	7.82-7.84
MC 8	7.45-7.59	7.50-7.58	7.53-7.61	7.57-7.74	7.58-7.58	7.59-7.60	7.50-7.65	7.64-7.68	7.62-7.68
Baltic	8.15	7.92-7.68	8.24	7.9-7.95	8.36	7.90-7.90	8.08	7.88-7.84	7.67

Table S2. Number of nauplii hatched / total number of eggs incubated, as well as nauplii development index (DI) in the egg transplant experiment.

Mesocosm	Hatching conditions	Day 3		Day 10		Day 17		Day 24	
		nauplii / total eggs	DI	nauplii / total eggs	DI	nauplii / total eggs	DI	nauplii / total eggs	DI
MC 1	MC	43 / 47	1.02	85 / 86	0.99	35 / 37	1.27	26 / 28	1.43
	Baltic	64 / 77	1.01	53 / 54	1.02	76 / 86	1.12	23 / 23	1.65
MC 3	MC	60 / 70	1.10	45 / 49	0.94	59 / 62	1.10	21 / 24	1.42
	Baltic	48 / 54	1.19	77 / 81	0.98	52 / 54	1.13	20 / 24	1.33
MC 5	MC	109 / 119	1.47	60 / 62	1.00	29 / 30	1.53	14 / 15	1.13
	Baltic	22 / 25	1.16	86 / 91	0.97	63 / 66	1.26	30 / 33	1.33
MC 6	MC	na	na	52 / 52	1.02	33 / 35	1.09	31 / 33	1.30
	Baltic	55 / 56	1.50	149 / 158	0.97	29 / 30	1.20	33 / 34	1.79
MC 7	MC	75 / 82	1.33	66 / 68	0.97	48 / 49	1.22	11 / 11	1.46
	Baltic	52 / 59	1.17	52 / 56	0.96	40 / 42	1.10	16 / 18	1.50
MC 8	MC	51 / 60	1.03	49 / 51	0.96	35 / 38	1.03	20 / 21	1.24
	Baltic	45 / 47	1.21	92 / 94	1.00	33 / 37	1.03	27 / 27	1.63