Supplementary Material

Decreased feeding rates of the copepod *Acartia tonsa* when exposed to playback harbor traffic noise

Saskia Kühn*, Franziska King and Katja Heubel

*** Correspondence: kuehn@ftz-west.uni-kiel.de**

Table S1. Overview variations in Initial cell concentration among the five phytoplankton cell concentration categories used in the analysis.

Category cells mL^{-1}	n	mean	se	min	Q1	median	Q3	max
1000	8	1260.417	79	1042	1080.729	1218.750	1398.438	1563
3000	11	3023.674	71	2813	2875.000	2890.625	3156.250	3438
5000	10	5244.792	181	4583	4791.667	5312.500	5390.625	6146
8000	8	7604.167	155	7188	7265.625	7500.000	7838.542	8229
10000	14	10669.643	172	9563	10296.875	10687.500	11171.875	11563

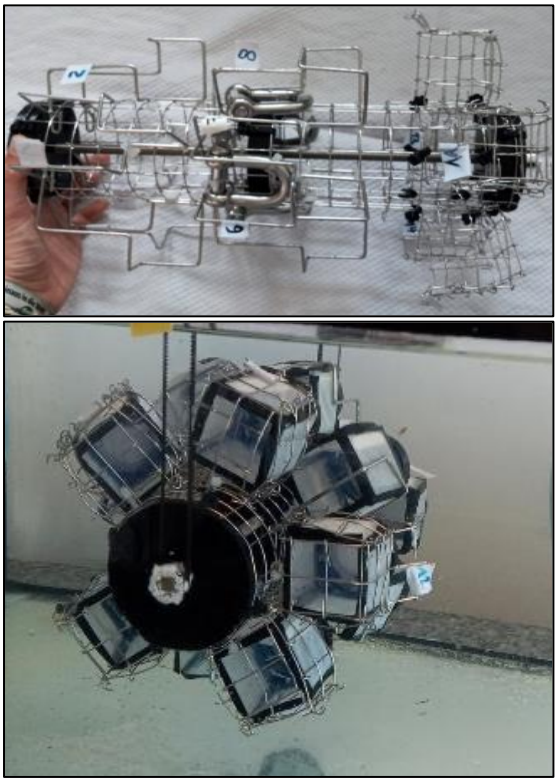

Figure S1. The underwater plankton wheel without vials (upper picture) and with vials in the experimental aquarium (picture below).

Table S2. Copepod body size per experimental grazer vial. *n* = Number of copepods per vial. The *n* in the columns *Mean length* and *Mean width* indicates the number of copepods measured. se = standard error. A = ambient; N = noise treatment.

Vial	Day	Treatment	Prey density cells mL^{-1}	Group size n	Copepod mean length µm ± se	Copepod mean width µm ± se
1	1	A	10000	10	568 (n=1)	NA
2	1	A	10000	10	623 ± 30 (n=7)	NA
3	2	N	5000	7	543 (n=1)	NA
4	2	N	5000	8	645 ± 16 (n=8)	208 (n=1)
5	3	A	5000	9	611 ± 18 (n=9)	177 ± 14 (n=5)
6	3	A	5000	10	598 ± 4 (n=4)	170 ± 11 (n=2)
7	3	A	10000	13	644 ± 19 (n=5)	NA
8	3	A	10000	11	648 ± 14 (n=7)	NA
9	4	N	3000	9	665 ± 17 (n=7)	219 (n=1)
10	4	N	10000	11	615 ± 17 (n=11)	188 ± 9 (n=3)
11	4	N	10000	12	610 ± 7 (n=8)	188,8 (n=1)
12	5	A	1000	11	655 ± 9 (n=11)	215 ± 5 (n=5)
13	5	A	1000	12	621 ± 15 (n=12)	213 ± 7 (n=7)
14	5	A	3000	13	625 ± 14 (n=13)	205 ± 4 (n=10)
15	5	A	3000	12	669 ± 6 (n=11)	194 ± 19 (n=4)
16	5	A	5000	14	655 ± 10 (n=14)	194 ± 3 (n=6)
17	5	A	5000	13	634 ± 7 (n=13)	199 ± 6 (n=8)
18	5	A	8000	13	633 ± 14 (n=10)	215 ± 8 (n=5)
19	5	A	8000	16	628 ± 14 (n=15)	190 ± 5 (n=8)
20	5	A	10000	19	608 ± 11 (n=19)	192 ± 6 (n=8)
21	5	A	10000	16	625 ± 11 (n=12)	212 ± 6 (n=7)
22	6	N	1000	13	641 ± 22 (n=11)	206 ± 11 (n=8)
23	6	N	1000	13	679 ± 9 (n=12)	NA
24	6	N	3000	14	643 ± 8 (n=14)	182 ± 6 (n=14)
25	6	N	3000	13	636 ± 12 (n=11)	206 ± 5 (n=6)
26	6	N	3000	12	660 ± 7 (n=12)	212 ± 3 (n=4)
27	6	N	3000	13	637 ± 11 (n=9)	NA
28	6	N	8000	18	627 ± 7 (n=18)	197 ± 6 (n=8)
29	6	N	8000	18	655 ± 12 (n=14)	207 ± 6 (n=3)
30	6	N	10000	16	659 ± 17 (n=15)	215 ± 6 (n=5)
31	6	N	10000	19	611 ± 22 (n=15)	249 (n=1)
32	7	A	1000	11	664 ± 20 (n=11)	257 ± 52 (n=8)
33	7	A	1000	13	655 ± 9 (n=13)	195 ± 5 (n=10)
34	7	A	3000	13	641 ± 4 (n=12)	197 ± 6 (n=6)
35	7	A	3000	13	643 ± 20 (n=13)	192 ± 11 (n=7)
36	7	A	5000	12	661 ± 14 (n=11)	168 (n=1)
37	7	A	5000	12	638 ± 13 (n=9)	202 ± 9 (n=3)
38	7	A	8000	18	667 ± 6 (n=18)	193 ± 0,2 (n=2)
39	7	A	8000	17	661 ± 8 (n=16)	205 ± 20 (n=5)
40	7	A	10000	16	628 ± 15 (n=16)	209 ± 4 (n=6)
41	7	A	10000	18	649 ± 9 (n=18)	189 ± 11 (n=9)
42	8	N	10000	17	689 ± 8 (n=17)	198 ± 3 (n=5)
43	8	N	1000	13	692 ± 15 (n=12)	218 ± 7 (n=9)
44	8	N	1000	13	662 ± 14 (n=10)	288 ± 77 (n=6)
45	8	N	3000	13	636 ± 20 (n=7)	210 ± 10 (n=4)
46	8	N	3000	13	671 ± 12 (n=12)	203 (n=1)
47	8	N	5000	12	665 ± 13 (n=11)	194 ± 3 (n=5)
48	8	N	5000	13	662 ± 17 (n=12)	203 ± 1 (n=3)
49	8	N	8000	18	683 ± 10 (n=18)	215 ± 7 (n=4)
50	8	N	8000	18	655 ± 10 (n=17)	194 ± 6 (n=7)
51	8	N	10000	17	651 ± 7 (n=17)	200 ± 12 (n=6)