The following supplement accompanies the article

Behavioral response of eastern oyster *Crassostrea virginica* larvae to a chemical settlement cue is not impaired by low pH

Kirstin S. Meyer-Kaiser*, Erin P. Houlihan, Jeanette D. Wheeler, Daniel C. McCorkle, Lauren S. Mullineaux

*Corresponding author: kmeyer@whoi.edu

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Table S1. pH (NBS scale) and related properties of filtered seawater (no cue) or a chemical settlement cue used in ambient and low pH treatments for experimental observation of *Crassostrea virginica* larval settlement behavior. DIC, dissolved inorganic carbon. Values likely affected by artefacts shown in red italics.

Year	Larval stage	Treatment	Temp (° C)	Measured pH_{NBS}	Salinity (PSU)	Average alkalinity (µmol/kg)	Average DIC (µmol/kg)	Average calculated pH_{NBS}
2016	Pre-competent	No cue, ambient pH	22.9	8.07	31.7	*2196.7*	*1931.91*	*8.202*
		No cue, low pH	22.1	7.44	31.7	*2194.8*	*2000.4*	*8.070*
		Settlement cue, ambient pH	21.9	8.15	31.2	*2024.5*	*2229.8*	*6.983*
		Settlement cue, low pH	21.8	7.47	31.2	*2067.7*	*2302.4*	*6.943*
2016	Competent	No cue, ambient pH	23.1	8.15	31.7	*2195.3*	*1922.9*	*8.214*
		No cue, low pH	22.8	7.40	31.7	*2222.0*	*2021.5*	*8.071*
		Settlement cue, ambient pH	22.3	8.13	31.2	*2017.6*	*1913.5*	*7.863*
		Settlement cue, low pH	22.5	7.35	31.2	*2130.7*	*1897.7*	*8.162*
2016	Post-competent	No cue, ambient pH	22.3	8.15	31.7	*2225.6*	*1952.7*	*8.220*
		No cue, low pH	21.9	7.43	31.7	*2188.9*	*2010.3*	*8.038*
		Settlement cue, ambient pH	21.9	8.15	31.2	*2194.1*	*1781.9*	*8.466*
		Settlement cue, low pH	21.7	7.35	31.2	*1958.6*	*1746.3*	*8.156*
2018	Pre-competent	No cue, ambient pH	20.0	8.12	32	2131.7	1943.0	8.066
		No cue, low pH	20.1	7.49	32	2142.8	2117.8	7.602
		Settlement cue, ambient pH	19.6	8.15	32	2194.7	1941.9	8.190
		Settlement cue, low pH	19.8	7.50	32	2141.8	2093.9	7.675
2018	Competent	No cue, ambient pH	19.6	8.19	32	2129.2	1908.6	8.133
		No cue, low pH	19.1	7.46	32	2132.6	2134.6	7.508
		Settlement cue, ambient pH	19.3	8.21	32	2136.7	1872.7	8.214
		Settlement cue, low pH	19.1	7.49	32	2151.1	2100.5	7.685
2018	Post-competent	No cue, ambient pH	20.7	8.20	32	2131.4	1903.3	8.145
		No cue, low pH	19.8	7.48	32	2114.0	2118.5	7.499
		Settlement cue, ambient pH	20.1	8.22	32	2151.8	1876.1	8.234
		Settlement cue, low pH	19.8	7.49	32	2153.8	2101.4	7.685

Table S2. Results of non-parametric Mann-Whitney tests for *C. virginica* larval behavior metrics that violated the assumption of homoscedasticity for ANOVA. Significant p-values shown in bold. Asterisk indicates a significant result that was not shown by ANOVA.

Behavioral metric	**Experiment year**	**Larval stage**	**Factor**	**U**	**p**
Proportion of larvae remaining on bottom	2016	Pre-competent	Cue	21	**< 0.001**
		Competent	Cue	45	**0.013**
	2018	Pre-competent	Cue	89	0.241
			pH	98	0.623
		Competent	Cue	95.5	0.496
			pH	117	0.3642
Velocity of downward-swimming larvae	2016	Pre-competent	pH	76	**0.042***
		Post-competent	Cue	99	**< 0.001**
Time for 10% of larvae to swim up	2016	Pre-competent	Cue	29	**0.030**
	2018	Competent	Cue	76	**0.031**
Velocity of upward-swimming larvae	2016	Competent	Cue	55	0.445
			pH	47	0.093
	2016	Post-competent	pH	38	0.413
	2018	Pre-competent	Cue	118	0.344
			pH	75	**0.025**
	2018	Competent	Cue	108	0.549
			pH	85	0.719