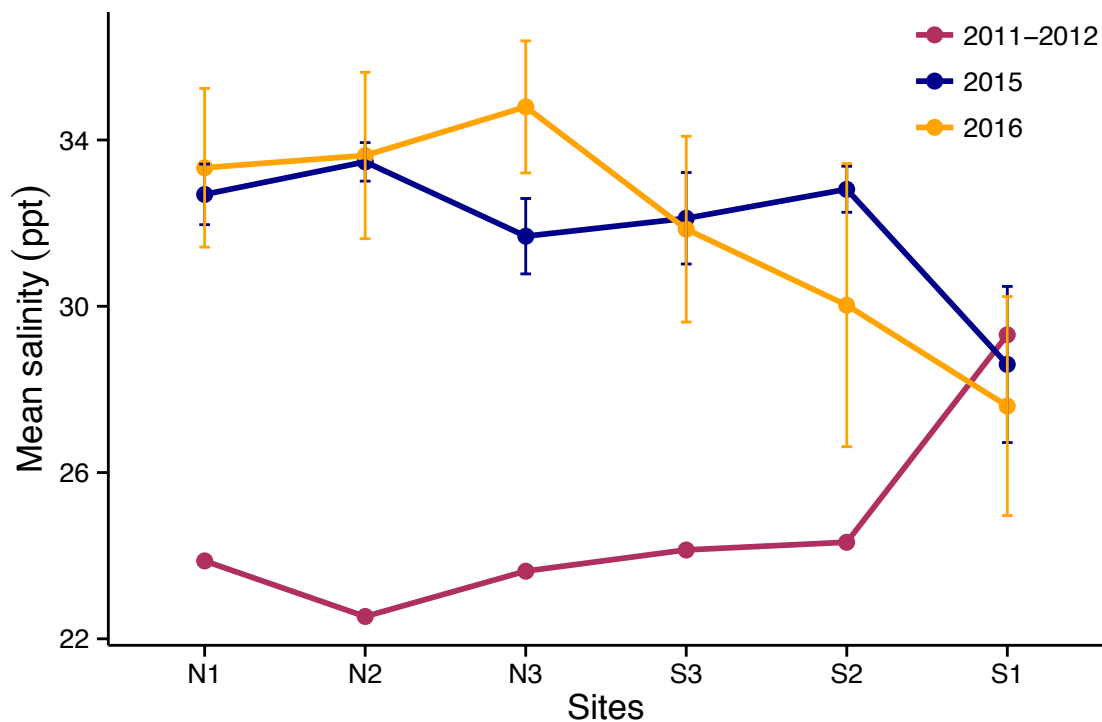


## Intraspecific predator inhibition, not a prey size refuge, enables oyster population persistence during predator outbreaks

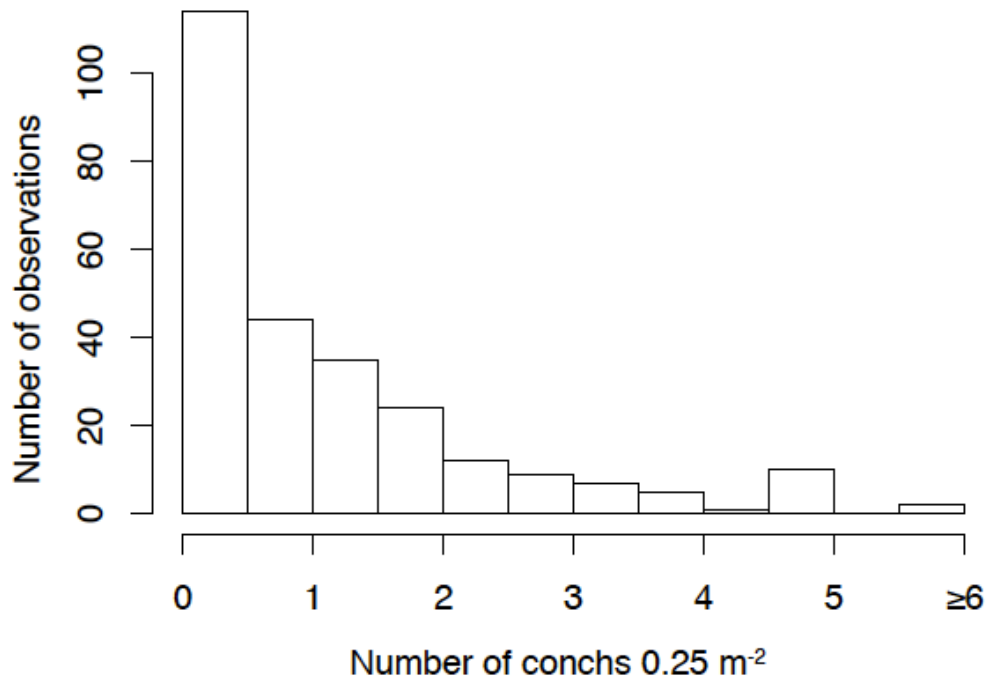
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**Figure S1.** Survey results showing annual variation in salinity across sites in the MRE prior to and during the experimental study. Data are averages ( $\pm$  SE) of monthly data points taken from April-September of 2011/2012 (red), 2015 (blue), and 2016 (yellow). (2011-2012 data show a previously calculated average value per site, which is why SE could not be included.)



**Figure S2.** Frequency of crown conch aggregations of different sizes at sites S1-S3 (the three southern sites at which conchs were present) during monthly surveys from March to August 2015 and 2016. The density of conchs in the 3.14 m<sup>2</sup> sample area (a 2 m diameter circle) is expressed in units of 0.25 m<sup>-2</sup> to match the scale of the experimental area.

**Table S1.** Maximum likelihood parameter estimates for functional response models.

Parameter	Estimate (standard deviation)
Holling Type I	
<i>a</i>	0.0968 (0.0171)
Holling Type II	
<i>a</i>	0.0968 (0.109)
<i>h</i>	9.121 x 10 <sup>-9</sup> (0.111)
Holling Type III	
<i>a</i>	0.0373 (0.0269)
<i>h</i>	0.0077 (0.0130)
<i>k</i>	1.5993 (0.6229)
Crowley-Martin	
<i>a</i>	0.9928 (3.8692)
<i>h</i>	1.000 x 10 <sup>-10</sup> (0.4199)
<i>c</i>	3.6624 (9.7573)
Crowley-Martin Type III	
<i>a</i>	0.3823 (0.7501)
<i>h</i>	0.0077 (0.0097)
<i>c</i>	3.6624 (7.9156)
<i>k</i>	1.5993 (0.4158)
Beddington-DeAngelis	
<i>a</i>	0.4663 (2.2543 x 10 <sup>2</sup> )
<i>h</i>	1.000 x 10 <sup>-10</sup> (15.4108)
<i>c</i>	3.6624 (1.9351 x 10 <sup>3</sup> )
Beddington-DeAngelis Type III	
<i>a</i>	62.3959 (12.8024)
<i>h</i>	5.1916(7.2087)
<i>c</i>	605.9819 (175.2609)
<i>k</i>	1.4686 (0.2625)
Hassell-Varley	
<i>a</i>	0.0971 (0.9912)
<i>h</i>	1.000 x 10 <sup>-10</sup> (1.0121)
<i>m</i>	0.8478 (4.9067)
Hassell-Varley Type III	
<i>a</i>	0.0982 (0.0463)
<i>h</i>	0.0044 (0.0199)
<i>m</i>	0.9000 (0.3320)
<i>k</i>	1.4170 (0.3168)
Ratio-dependent	
<i>a</i>	0.1114 (0.3075)
<i>h</i>	1.000 x 10 <sup>-10</sup> (0.3714)
Ratio-dependent Type III	
<i>a</i>	0.1028 (0.0651)
<i>h</i>	0.0086 (0.0437)
<i>k</i>	1.4691 (0.5930)