

Non-native macroalga may increase concentrations of *Vibrio* bacteria on intertidal mudflats

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Supplement. Numeric concentrations of total *Vibrio*, *V. parahaemolyticus* and *V. vulnificus* that correspond to Figures 2, 3, and 4 in the main text (Table S1). Detailed breakdown of isolate confirmation and *V. vulnificus* genotype assignment (Table S2).

Table S1. Mean (\pm SE) total *Vibrio*, *V. parahaemolyticus* (Vp), and *V. vulnificus* (Vv) concentrations found in water, sediment, *Gracilaria vermiculophylla*, and oysters on bare and vegetated mudflats in July, August, and September 2012. CFU: colony forming units; Vegetation: B = bare, V = vegetated

Date	Vegetation	Water (CFU ml ⁻¹)			Sediment (CFU g ⁻¹)			<i>G. vermiculophylla</i> (CFU g ⁻¹)			Oysters (CFU g ⁻¹)		
		Total <i>Vibrio</i>	Vp	Vv	Total <i>Vibrio</i>	Vp	Vv	Total <i>Vibrio</i>	Vp	Vv	Total <i>Vibrio</i>	Vp	Vv
02 July 2012	B	2.0×10 ² ± 3.3×10 ¹	9.8 ± 1.8	1.1 ± 0.1	6.3×10 ⁴ ± 1.5×10 ⁴	2.8×10 ³ ± 6.3×10 ²	0	NA	NA	NA	NA	NA	NA
	V	1.3×10 ³ ± 2.7×10 ²	21.0 ± 6.7	8.2 ± 2.3	1.5×10 ⁵ ± 3.6×10 ⁴	6.0×10 ³ ± 1.2×10 ³	0	2.7×10 ⁵ ± 6.2×10 ⁴	6.1×10 ³ ± 1.5×10 ³	2.3×10 ² ± 2.2×10 ²	NA	NA	NA
27, 28, 29 August 2012	B	1.5×10 ² ± 2.8×10 ¹	6.9 ± 3.3	6.1 ± 1.9	8.7×10 ⁴ ± 2.1×10 ⁴	4.1×10 ³ ± 8.5×10 ²	9.1×10 ³ ± 3.9×10 ³	NA	NA	NA	5.7×10 ³ ± 2.1×10 ³	1.2×10 ³ ± 2.7×10 ²	2.4×10 ² ± 1.2×10 ²
	V	2.3×10 ² ± 4.0×10 ¹	1.5×10 ¹ ± 4.6	1.7×10 ¹ ± 6.0	2.7×10 ⁵ ± 9.9×10 ⁴	1.8×10 ⁴ ± 6.4×10 ³	1.1×10 ⁴ ± 5.6×10 ³	9.1×10 ⁴ ± 2.3×10 ⁴	9.4×10 ³ ± 3.7×10 ³	3.2×10 ³ ± 1.7×10 ³	1.8×10 ⁴ ± 8.4×10 ³	6.3×10 ³ ± 3.3×10 ³	7.1×10 ² ± 3.6×10 ²
19, 20, 21 September 2012	B	6.2×10 ¹ ± 8.0	1.7 ± 0.6	4.4 ± 0.6	1.3×10 ⁵ ± 3.4×10 ⁴	3.7×10 ³ ± 9.9×10 ²	1.2×10 ⁴ ± 3.4×10 ³	NA	NA	NA	1.1×10 ³ ± 3.1×10 ²	1.8×10 ² ± 8.8×10 ¹	4.5×10 ¹ ± 1.6×10 ¹
	V	1.2×10 ² ± 3.4×10 ¹	4.4 ± 1.6	8.0 ± 3.3	2.6×10 ⁵ ± 9.0×10 ⁴	1.3×10 ⁴ ± 3.6×10 ³	3.0×10 ⁴ ± 9.7×10 ³	4.2×10 ⁴ ± 1.6×10 ⁴	1.2×10 ⁴ ± 1.0×10 ⁴	2.1×10 ³ ± 9.7×10 ²	2.0×10 ³ ± 5.9×10 ²	4.6×10 ² ± 2.6×10 ²	9.6×10 ¹ ± 4.0×10 ¹

Table S2. Total number of *Vibrio parahaemolyticus* (Vp) and *V. vulnificus* (Vv) isolates tested and confirmed using molecular techniques. Data are separated by sample period (month) and sample type

Month	Sample type	No. Vp isolates tested	No. positive Vp IDs	No. Vv isolates tested	No. confirmed C-type Vv	No. confirmed E-type Vv
July	<i>G. vermiculophylla</i>	120	116	24	4	0
	Sediment	120	119	2	0	0
	Water	108	48	15	2	0
August	<i>G. vermiculophylla</i>	63	54	3	0	0
	Sediment	60	54	5	0	0
	Water	31	27	5	0	1
	Oysters	117	72	23	9	3
September	<i>G. vermiculophylla</i>	32	30	21	4	2
	Sediment	82	80	26	9	7
	Water	43	42	18	5	3
	Oysters	70	49	21	5	4