

Appendix S1: Supplemental Figures and Tables

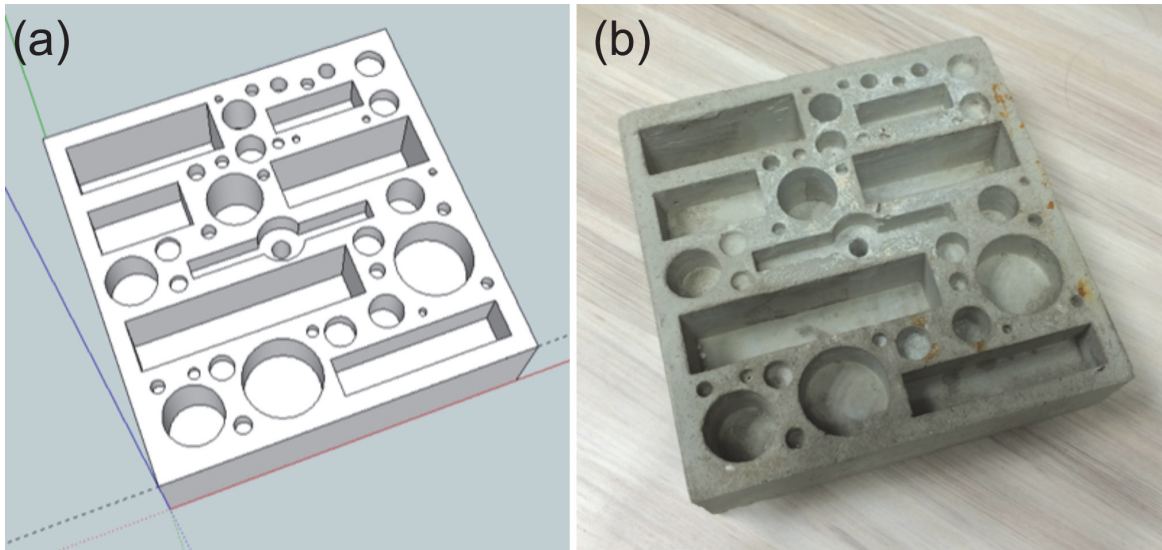


Figure S1. (a) 3D model of a single concrete tile ($0.2\text{ m} \times 0.2\text{ m} \times 0.06\text{ m}$) used in this study to create $2.4\text{ m} \times 2.4\text{ m}$ experimental landscape plots; (b) photograph of an actual concrete tile.

Table S1. List of species/morphospecies and algal functional groups found in this study.

No.	Class	Species/Morphospecies
1	Gastropoda	<i>Cellana radiata</i>
2	Gastropoda	<i>Siphonaria guamensis</i>
3	Gastropoda	<i>Siphonaria atra</i>
4	Gastropoda	<i>Patelloida saccharinoides</i>
5	Gastropoda	<i>Nerita albicilla</i>
6	Gastropoda	<i>Nerita chamaeleon</i>
7	Gastropoda	<i>Nerita undata</i>
8	Gastropoda	<i>Planaxis sulcatus</i>
9	Gastropoda	<i>Pictocollumbella ocellata</i>
10	Gastropoda	<i>Pardalina testudinaria</i>
11	Gastropoda	<i>Euplica scripta</i>
12	Gastropoda	<i>Monodonta labio</i>
13	Gastropoda	<i>Strombus urceus</i>
14	Gastropoda	<i>Pollia fumosa</i>
15	Gastropoda	<i>Engina armillata</i>
16	Gastropoda	<i>Trochus maculatus</i>
17	Gastropoda	<i>Reisha bitubercularis</i>
18	Gastropoda	<i>Mancinella echinata</i>
19	Gastropoda	<i>Zafra</i> sp.
20	Gastropoda	<i>Nassarius livescens</i>
21	Gastropoda	<i>Nassarius crenoliratus</i>
22	Gastropoda	<i>Cantharus</i> sp.
23	Gastropoda	<i>Drupella margariticola</i>
24	Gastropoda	<i>Morula musiva</i>
25	Gastropoda	<i>Muricodrupa fiscella</i>
26	Gastropoda	<i>Cerithium zonatum</i>
27	Gastropoda	<i>Cerithium traillii</i>
28	Gastropoda	<i>Clypeomorus batillariaeformis</i>
29	Gastropoda	<i>Semiricinula muricoides</i>
30	Gastropoda	Rissoidae sp. 1
31	Gastropoda	<i>Littoraria articulata</i>
32	Gastropoda	<i>Littoraria strigata</i>
33	Gastropoda	<i>Echinolittorina melanacme</i>
34	Gastropoda	<i>Echinolittorina malaccana</i>
35	Gastropoda	<i>Collonista</i> sp.
36	Gastropoda	<i>Turbo brunneus</i>
37	Gastropoda	<i>Peronia verruculata</i>
38	Bivalvia	<i>Modiolus</i> sp.
39	Bivalvia	Mytilidae sp. 1
40	Bivalvia	<i>Barbatia amygdalumtostum</i>
41	Bivalvia	<i>Septifer bilocularis</i>
42	Bivalvia	<i>Septifer excisus</i>
43	Bivalvia	<i>Semele</i> sp.
44	Bivalvia	<i>Pinctada</i> sp.

SUPPORTING INFORMATION. LOKE, L. H. L., R. A. CHISHOLM, AND P. A. TODD. 2019. EFFECTS OF HABITAT AREA AND SPATIAL CONFIGURATION ON BIODIVERSITY IN AN EXPERIMENTAL INTERTIDAL COMMUNITY AT A LANDSCAPE SCALE. ECOLOGY.

45	Bivalvia	<i>Arca naticularis</i>
46	Bivalvia	<i>Isognomon legumen</i>
47	Polyplacophora	<i>Acanthopleura gemmata</i>
48	Malacostraca	<i>Baruna trigranulum</i>
49	Malacostraca	<i>Nanosessarma minutum</i>
50	Malacostraca	<i>Metopograpsus thukuhar</i>
51	Malacostraca	<i>Metopograpsus frontalis</i>
52	Malacostraca	<i>Portunus</i> sp.
53	Malacostraca	<i>Diogenes</i> sp.
54	Malacostraca	Hymenosomatidae sp. 1
55	Malacostraca	<i>Ligia exotica</i>
56	Malacostraca	<i>Talitridae</i> sp.
57	Maxillopoda	<i>Tetraclita</i> sp.
58	Maxillopoda	<i>Balanus</i> sp.
59	Demospongiae	Spongiidae
60	Polychaeta	Nereididae
61	Polychaeta	Ampharetidae
62	Polychaeta	Serpulidae
63	Polychaeta	Sabellidae
64	Polychaeta	Syllidae
65	Polychaeta	Terebellidae
66	Polychaeta	Trichobranchaetidae
67	Polychaeta	Polynoidae
68	Holothuroidea	<i>Colochirus quadrangularis</i>
69	Ascidiacea	Didemnidae sp. 1
Algal functional group		Dominant component taxa
70	Microalgae	Unidentified cyanobacteria and diatoms
71	Ephemeral turf algae	<i>Ulva</i> spp.
72	Red/brown algal assemblage	<i>Parviphyicus antipae</i> , <i>Gelidiopsis variabilis</i> , <i>Dictyota</i> spp. and Ceramiales
73	Encrusting algae	Ralfsiaceae and/or Neoralfsiaceae, and crustose coralline algae
74	Articulated calcareous algae	<i>Jania</i> spp.
75	Foliose algae	<i>Padina</i> spp.
76	Sargassum	<i>Sargassum</i> spp.

Table S2. Mean species richness (\pm SD) of the nine different plot configurations.

	SL	SS	LOT	Average
30 tiles	19.5 \pm 1.1	28.75 \pm 2.3	19 \pm 3.2	22.4
20 tiles	13.5 \pm 3.4	26.5 \pm 4.4	19.5 \pm 8.3	19.8
10 tiles	15.5 \pm 1.8	12.75 \pm 8.4	15 \pm 2.9	14.4
Average	16.1	22.7	17.8	

Table S3. Permutational distance-based multivariate analysis of variance (PERMANOVA) based on Bray-Curtis dissimilarities of the relative abundances ($\log(X+1)$ transformed) of 76 taxa in response to Area, Configuration and their interactions.

Source	df	MS	Pseudo-F	<i>P</i> (perm)
Area	2	1499.0	1.0	0.4805
Configuration	2	1999.2	1.3	0.1838
Area \times Configuration	4	1341.1	0.9	0.6836
Residual	27	1556.9		
Total	35			