

Table S5. Mean species density ($\pm$ s.d.), total percentage of cover, and mean percentage of cover of each algae species in the intertidal area, categorized by zone and time studied.

Intertidal algae metrics				Lava flows 2 months	Control zone 2 months	Lava flows 4.5 months	Control zone 4.5 months	Lava flows 7 months	Control zone 7 months
Species density				3.33 $\pm$ 1.22	3.81 $\pm$ 1.57	2.94 $\pm$ 1.41	4.45 $\pm$ 1.72	2.34 $\pm$ 1.28	4.81 $\pm$ 1.99
Total percentage of cover				102.95 $\pm$ 36.06	124.05 $\pm$ 55.56	120.32 $\pm$ 22.56	101.20 $\pm$ 43.76	120.41 $\pm$ 20.93	123.78 $\pm$ 55.73
Species	Family	Order	Phyllum						
<i>Chaetomorpha aerea</i> (Dillwyn) Kützing	Cladophoraceae	Cladophorales	Chlorophyta						0.06 $\pm$ 0.30
<i>Cladophora laetevirens</i> (Dillwyn) Kützing	Cladophoraceae	Cladophorales	Chlorophyta				0.40 $\pm$ 3.10		
<i>Valonia utricularis</i> (Roth) C.Agardh	Valoniaceae	Cladophorales	Chlorophyta		0.56 $\pm$ 2.60				0.49 $\pm$ 3.41
<i>Gayralia oxysperma</i> (Kützing) K.L.Vinogradova ex Scagel & al.	Gayraliaceae	Ulotrichales		10.07 $\pm$ 21.64	1.54 $\pm$ 4.51				
Ulvaleans	-	Ulvales	Chlorophyta	18.04 $\pm$ 20.77	23.60 $\pm$ 28.15	44.42 $\pm$ 40.42	10.70 $\pm$ 23.83	53.17 $\pm$ 45.16	9.58 $\pm$ 20.67
Cyanophyceae	-	-	Cyanobacteria	11.16 $\pm$ 17.19	2.37 $\pm$ 5.06		3.23 $\pm$ 9.73		0.41 $\pm$ 2.11
<i>Dictyota</i> sp.	Dictyotaceae	Dictyotales	Heterokontophyta						0.01 $\pm$ 0.12
<i>Dictyota canariensis</i> (Grunow) Tronholm	Dictyotaceae	Dictyotales	Heterokontophyta		0.85 $\pm$ 3.08				
<i>Dictyota cymatophila</i> Tronholm, M.Sanson & Afonso-Carrillo	Dictyotaceae	Dictyotales	Heterokontophyta				1.32 $\pm$ 5.07		
<i>Lobophora canariensis</i> (Sauvageau) C.W.Vieira, De Clerck & Payri	Dictyotaceae	Dictyotales	Heterokontophyta						0.07 $\pm$ 0.45
<i>Padina pavonica</i> (Linnaeus) Thivy	Dictyotaceae	Dictyotales	Heterokontophyta				0.09 $\pm$ 0.42		0.04 $\pm$ 0.21
<i>Taonia atomaria</i> (Woodward) J.Agardh	Dictyotaceae	Dictyotales	Heterokontophyta		0.29 $\pm$ 1.39		2.83 $\pm$ 9.88		
Ectocarpaleans/diatoms	-	Ectocarpales	Heterokontophyta	54.66 $\pm$ 40.96		18.34 $\pm$ 36.10		31.65 $\pm$ 44.69	
<i>Leathesia</i> sp.	Chordariaceae	Ectocarpales	Heterokontophyta					0.04 $\pm$ 0.37	
<i>Colpomenia sinuosa</i> (Mertens ex Roth) Derbès & Solier	Scytosiphonaceae	Ectocarpales			0.35 $\pm$ 1.13	0.04 $\pm$ 0.21	0.30 $\pm$ 1.46	0.10 $\pm$ 0.36	0.41 $\pm$ 1.02
<i>Gongolaria abies-marina</i> (S.G.Gmelin) Kuntze	Sargassaceae	Fucales	Heterokontophyta				0.46 $\pm$ 3.23		0.25 $\pm$ 1.45
<i>Nemoderma tingitanum</i> Schousboe ex Bornet	Nemodermatales	Nemodermataceae	Heterokontophyta				0.04 $\pm$ 0.37		5.04 $\pm$ 14.65
<i>Asteronema breviarticulatum</i> (J.Agardh) Ouriques & Bouzon				0.47 $\pm$ 1.95					
<i>Spahcelaria</i> sp.	Asteronemataceae	Scytothamiales	Heterokontophyta						
<i>Halopteris scoparia</i> (Linnaeus) Sauvageau	Sphacelariaceae	Sphacelariales	Heterokontophyta				3.98 $\pm$ 11.66		1.07 $\pm$ 5.32
<i>Bangia fuscopurpurea</i> (Dillwyn) Lyngbye	Stypocaulaceae	Sphacelariales	Heterokontophyta						0.74 $\pm$ 4.75
<i>Porphyra</i> sp.	Bangiaceae	Bangiales	Rhodophyta	8.04 $\pm$ 21.51	2.01 $\pm$ 7.72	42.38 $\pm$ 48.22		14.28 $\pm$ 27.84	
<i>Asparagopsis taxiformis</i> (Delile) Trevisan	Bangiaceae	Bangiales	Rhodophyta	0.45 $\pm$ 0.80		6.11 $\pm$ 19.67			
Ceramiales	Bonnemaisoniaceae	Bonnemaisoniales	Rhodophyta		1.95 $\pm$ 6.21		2.41 $\pm$ 7.66		1.69 $\pm$ 5.23
<i>Antithamnionella boergesenii</i> (Cormaci & G.Furnari)	-	Ceramiales	Rhodophyta		9.37 $\pm$ 28.18	2.04 $\pm$ 7.01			
Athansiadis				0.02 $\pm$ 0.15					
<i>Centroceras gasparrinii</i> (Meneghini) Kützing	Ceramiaceae	Ceramiales	Rhodophyta				0.04 $\pm$ 0.27		
<i>Ceramium ciliatum</i> (J.Ellis) Ducluzeau	Ceramiaceae	Ceramiales	Rhodophyta		5.29 $\pm$ 16.10		2.09 $\pm$ 6.83		1.80 $\pm$ 5.49
<i>Ceramium diaphanum</i> (Lightfoot) Roth	Ceramiaceae	Ceramiales	Rhodophyta						3.31 $\pm$ 12.50
<i>Ceramium echionotum</i> J.Agardh	Ceramiaceae	Ceramiales	Rhodophyta		0.14 $\pm$ 0.79				

<i>Dasya hutchinsiae</i> Harvey	Delesseriaceae	Ceramiales	Rhodophyta			1.61±5.28		
<i>Herposiphonia secunda</i> (C.Agardh) Ambronn	Rhodomelaceae	Ceramiales	Rhodophyta	0.04±0.27				
<i>Laurencia</i> gr. <i>obtusa</i> (Hudson) J.V.Lamouroux	Rhodomelaceae	Ceramiales	Rhodophyta					0.41±2.07
<i>Laurencia</i> sp.	Rhodomelaceae	Ceramiales	Rhodophyta	0.53±2.26		1.33±5.85		
<i>Laurencia catarinensis</i> Cordeiro-Marino & Fujii	Rhodomelaceae	Ceramiales	Rhodophyta	1.56±6.03		0.64±3.67		0.69±3.62
<i>Laurencia chondrioides</i> Børgesen	Rhodomelaceae	Ceramiales	Rhodophyta			0.03±0.24		5.57±12.47
<i>Laurencia dendroidea</i> J.Agardh	Rhodomelaceae	Ceramiales	Rhodophyta	0.03±0.25		0.01±0.12		2.82±11.20
<i>Palisada perforata</i> (Bory) K.W.Nam	Rhodomelaceae	Ceramiales	Rhodophyta	0.17±0.90		5.70±15.19	0.01±0.12	0.49±2.23
<i>Wrangelia argus</i> (Montagne) Montagne	Wrangeliaceae	Ceramiales	Rhodophyta	0.68±2.76		0.50±1.30		2.28±6.51
Crustose coralline algae	-	Corallinales	Rhodophyta	6.18±17.50	1.30±3.58	9.27±20.49	1.60±6.15	11.58±19.87
<i>Corallina berteroi</i> Montagne ex Kützing	Corallinaceae	Corallinales	Rhodophyta	49.48±45.87	3.74±12.14	23.69±30.51	17.15±32.72	38.47±36.48
<i>Jania pedunculata</i> var. <i>adhaerens</i> (J.V.Lamouroux) A.S.Harvey, Woelkerling & Reviere	Corallinaceae	Corallinales	Rhodophyta	0.29±1.68		9.67±19.68		12.76±26.03
<i>Jania virgata</i> (Zanardini) Montagne	Corallinaceae	Corallinales	Rhodophyta	8.12±19.82		9.80±27.09	1.48±4.95	8.09±19.51
<i>Amphiroa fragilissima</i> (Linnaeus) J.V.Lamouroux	Lithophyllaceae	Corallinales	Rhodophyta					3.07±9.90
<i>Gelidium arbuscula</i> Bory ex Børgesen	Gelidiaceae	Gelidiales	Rhodophyta	0.04±0.37		1.06±4.98		1.41±5.16
<i>Gelidium pusillum</i> (Stackhouse) Le Jolis	Gelidiaceae	Gelidiales	Rhodophyta	1.89±5.88	0.73±2.81	4.43±12.85	0.21±0.86	4.96±16.56
<i>Pterocliadiella capillacea</i> (S.G.Gmelin) Santelices & Hommersand	Pterocliadiaceae	Gelidiales	Rhodophyta	2.12±11.97		4.24±14.83		4.57±13.66
<i>Caulacanthus ustulatus</i> (Turner) Kützing	Caulacanthaceae	Gigartinales	Rhodophyta	2.28±10.54		0.09±0.74		1.09±4.52
<i>Hypnea spinella</i> (C.Agardh) Kützing	Cystocloniaceae	Gigartinales	Rhodophyta			0.49±2.24		
<i>Chondracanthus acicularis</i> (Roth) Fredericq	Gigartinaceae	Gigartinales	Rhodophyta	3.04±8.14	0.82±2.80	0.60±1.97	0.01±0.12	0.34±0.95
<i>Hildenbrandia</i> sp.	Hildenbrandiaceae	Hildenbrandiales	Rhodophyta		0.04±0.37			
<i>Liagora ceranoides</i> J.V.Lamouroux	Liagoraceae	Nemaliales	Rhodophyta					0.01±0.12
<i>Liagora tetrasporifera</i> Børgesen	Liagoraceae	Nemaliales	Rhodophyta				0.65±4.74	0.01±0.12
<i>Nemalion elminthoides</i> (Vellay) Batters	Nemaliaceae	Nemaliales	Rhodophyta			0.03±0.24		
<i>Gastroclonium clavatum</i> (Roth) Ardissonne	Champiaceae	Rhodymeniales	Rhodophyta		0.01±0.12		0.01±0.12	