

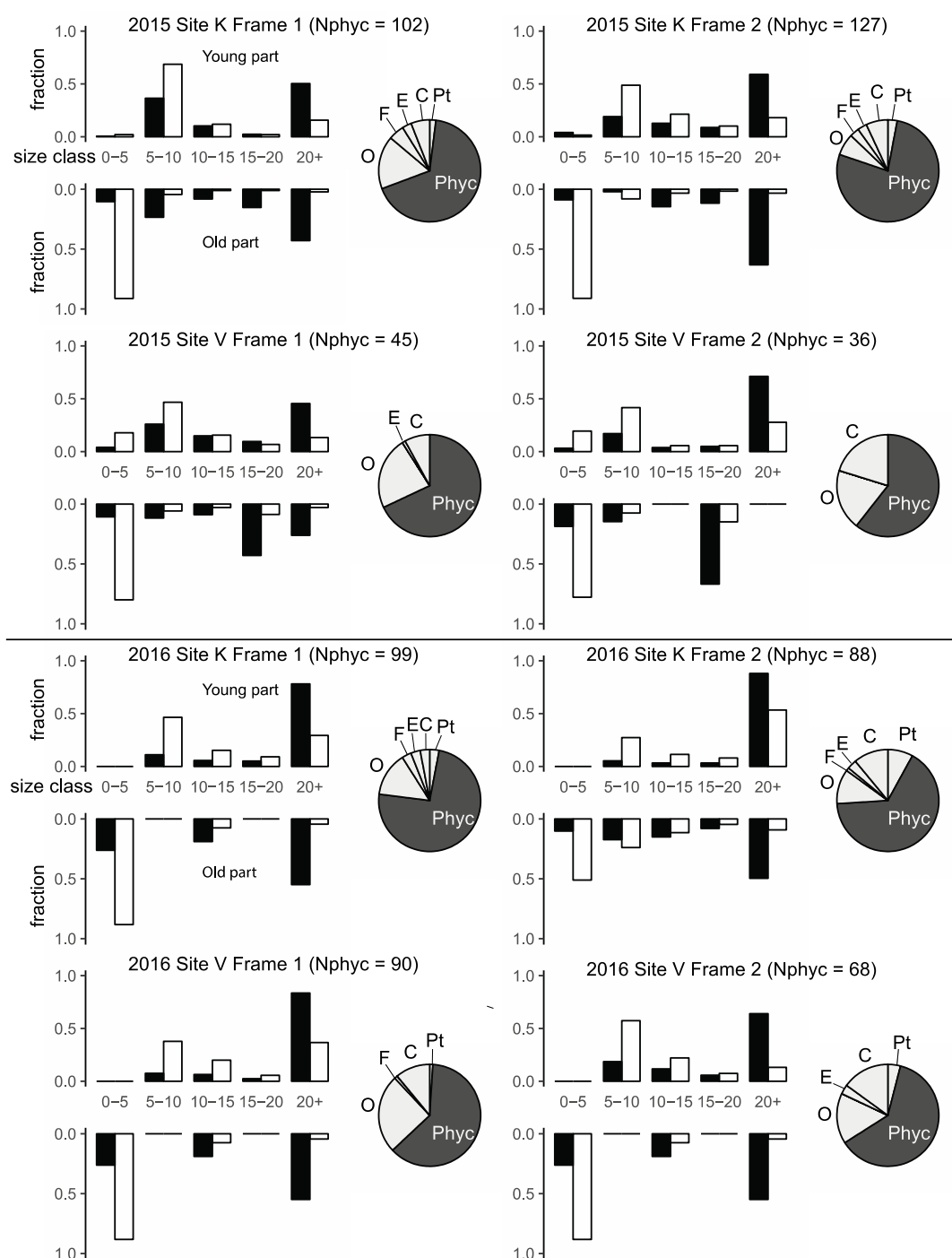
# Plant Part Age and Size Affect Sessile Macrobenthic Assemblages Associated with a Foliose Red Algae *Phycodrys rubens* in the White Sea

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**Figure S1.** Size structure of *Phycodrys rubens* and its proportion compared to other red macroalgal species on September 24, 2015 and October 1, 2016 by site and frame. Barcharts: distribution of *P. rubens* individuals by approximated blade surface area (white bars) and their contributions to total *P. rubens* surface area (black bars). Young plant parts plotted upwards, old plant parts plotted downwards, size classes denote approximated blade surface area of the corresponding part in cm<sup>2</sup>. Piecharts: relative wet weights of red macroalgae by species. Phyc – *P. rubens*; O – *Odonthalia dentata*; F – *Fimbrifolium dichotomum*; E – *Euthora cristata*; C – *Coccotylus truncatus*; Pt – *Ptilota gunneri*. N<sub>phyc</sub> – number of *P. rubens* individuals in a 0.25 m<sup>2</sup> frame.

**Table S1.** Average number (N) and wet weight (W) in grams of foliouse red algae per 1 m<sup>2</sup> of the bottom in September-October by species and year ( $n = 4$  frames, sites pooled).

Year		<i>Phycodrys Rubens</i>	<i>Odonthalia Dentata</i>	<i>Fimbrifolium Dichotomum</i>	<i>Coccotylus Truncatus</i>	<i>Euthora Cristata</i>	<i>Ptilota Gunneri</i>
2015	N	310 ± 88	56 ± 7	21 ± 10	88 ± 15	25 ± 10	18 ± 9
	W	130.3 ± 29.3	27.3 ± 3.0	4.6 ± 2.4	18.2 ± 4.7	3.4 ± 1.8	2.5 ± 1.6
2016	N	342 ± 24	107 ± 17	8 ± 4	90 ± 25	42 ± 11	48 ± 15
	W	357.6 ± 64.0	90.9 ± 27.6	6.6 ± 4.1	52.4 ± 15.1	9.8 ± 3.6	22.7 ± 11.4

**Table S2.** Contribution of 20 largest *Phycodrys rubens* plants to approximated total area in a frame (ATA) and total wet weight (TWW) in September-October by year, site and frame.

Sampling Date	September 24, 2015				October 1, 2016			
Site	K	K	V	V	K	K	V	V
Frame	1	2	1	2	1	2	1	2
ATA, cm <sup>2</sup>	1528	2795	716	814	3911	4397	4134	1873
ATA of 20 largest, cm <sup>2</sup>	884	1793	448	404	2859	2789	2936	1341
%ATA of 20 largest	58	64	63	50	73	63	71	72
TWW, g	30	54	24	23	96	112	104	42
TWW of 20 largest, g	24	37	23	22	80	82	86	38
%TWW of 20 largest	81	68	97	96	83	73	82	91

**Table S3.** Approximated surface area (cm<sup>2</sup>) of *Phycodrys rubens* per 1 m<sup>2</sup> in September–October by plant part age, site and year, frames pooled.

Sampling Date	Site	Young Parts Area	Old Parts Area	Total Area
September 24, 2015	K	15558	1733	17291
September 24, 2015	V	5221	898	6118
October 1, 2016	K	27102	6131	33233
October 1, 2016	V	19673	4357	24030

**Table S4.** Mann-Whitney U-tests comparing total cover of the epibiosis on *Phycodrys rubens* in September 2015 between the two replicate frames by site and plant part age.

Site	Plant Part Age	Subsample	U	Z	p	N <sub>1</sub>	N <sub>2</sub>
K	young	random plants only	95	−0.705	0.481	15	15
V	young	random plants only	102	−0.415	0.678	15	15
K	old	random plants only	12	−1.240	0.215	4	11
V	old	random plants only	15	0.091	0.927	5	6
K	young	random + large plants	187	−0.338	0.735	20	20
V	young	random + large plants	170	−0.798	0.425	20	20
K	old	random + large plants	38	−1.897	0.058	9	16
V	old	random + large plants	55	0.035	0.972	10	11

**Table S5.** Kolmogorov–Smirnov (KS) and Mann–Whitney (MW) U-tests comparing total plant surface areas and the proportion of young blades' surface of *Phycodrys rubens* between the pairs of replicate frames in September 2015 by sampling site. Sample sizes for randomly sampled plants  $N_1 = N_2 = 15$ , for random + large plants  $N_1 = N_2 = 20$ ; see text for details.

Variable	Site	Subsample	KS-test		MW U-test		
			D	p	U	Z	p
Total plant surface area	K	random plants only	0.4	0.136	73	−1.618	0.106
Total plant surface area	V	random plants only	0.2	0.89	102.5	−0.394	0.693
Proportion of young blades' surface	K	random plants only	0.47	0.051	70	−1.862	0.063
Proportion of young blades' surface	V	random plants only	0.2	0.89	103	−0.432	0.666
Total plant surface area	K	random + large plants	0.3	0.275	153	−1.258	0.208
Total plant surface area	V	random + large plants	0.15	0.965	182.5	−0.46	0.646
Proportion of young blades' surface	K	random + large plants	0.35	0.135	149	−1.403	0.161
Proportion of young blades' surface	V	random + large plants	0.15	0.965	184	−0.444	0.657



**Table S6.** Effects of plant part age (fixed, young or old), month (fixed, July or September), and location (fixed, sites K or V) on total cover of *Phycodrys rubens* epibiosis in 2015: beta-regression, mean (logit link) and variance (log link) modeled, replicate 0.25 m<sup>2</sup> frames included as a fixed effect nested in Site × Month with two levels per site (see Methods for details). Auxiliary non-randomly sampled (in September only) five largest plants per frame not included. Significant terms in a mean model highlighted in bold.

		Model	Source of Variation	Estimate	SE	t-value	p
Plants having both old and young parts (with Plant ID as a random blocking factor nested in Site × Month × Frame; n = 51 plants)	Mean (Mu)		Intercept	−5.4548	0.5373	−10.152	<0.001
			Site [level 'K']	−0.1024	0.2202	−0.465	0.643
			<b>Age [level 'Old']</b>	<b>3.4217</b>	<b>0.9030</b>	<b>3.789</b>	<b>&lt;0.001</b>
			<b>Month [level 'September']</b>	<b>3.1399</b>	<b>0.5164</b>	<b>6.080</b>	<b>&lt;0.001</b>
			<b>Frame (Site × Month) [level 'Jul K-2']</b>	<b>−1.5023</b>	<b>0.5688</b>	<b>−2.641</b>	<b>0.010</b>
			<b>Frame (Site × Month) [level 'Jul K-3']</b>	<b>−1.4284</b>	<b>0.5972</b>	<b>−2.392</b>	<b>0.019</b>
			Frame (Site × Month) [level 'Jul V-1']	1.1732	0.6625	1.771	0.081
			Frame (Site × Month) [level 'Jul V-2']	0.6429	0.6624	0.971	0.335
			Frame (Site × Month) [level 'Jul V-3']	0.1390	0.8822	0.158	0.875
			Frame (Site × Month) [level 'Sep K-1']	−0.2771	0.2257	−1.228	0.224
			Frame (Site × Month) [level 'Sep V-1']	−0.1017	0.2088	−0.487	0.628
	Variance (Sigma)		Site × Age	1.9685	0.9996	1.969	0.053
			<b>Age × Month</b>	<b>−2.1639</b>	<b>0.9617</b>	<b>−2.250</b>	<b>0.027</b>
			Site × Age × Month	−0.6280	1.1178	−0.562	0.576
			Intercept	−2.4697	0.4795	−5.150	<0.001
			Site [level 'K']	0.3145	0.3915	0.803	0.424
			Age [level 'Old']	1.9101	0.9761	1.957	0.054
			Month [level 'September']	0.3541	0.3940	0.899	0.372
			<b>Frame (Site × Month) [level 'Jul K-2']</b>	<b>−1.7496</b>	<b>0.4308</b>	<b>−4.061</b>	<b>&lt;0.001</b>
			<b>Frame (Site × Month) [level 'Jul K-3']</b>	<b>−1.9890</b>	<b>0.6384</b>	<b>−3.115</b>	<b>0.003</b>
			Frame (Site × Month) [level 'Jul V-1']	0.4871	0.5544	0.879	0.382
			Frame (Site × Month) [level 'Jul V-2']	0.1603	0.5965	0.269	0.789
			Frame (Site × Month) [level 'Jul V-3']	−1.0625	1.4861	−0.715	0.477
			Frame (Site × Month) [level 'Sep K-1']	−0.6590	0.3919	−1.681	0.097
			Frame (Site × Month) [level 'Sep V-1']	−0.1210	0.3742	−0.323	0.747
			Site × Age	1.2289	1.1222	1.095	0.277
			Age × Month	0.0453	1.0499	0.043	0.966
			Site × Age × Month	−0.1733	1.2399	−0.140	0.889
Plants having only young parts (n = 39 plants)	Mean (Mu)		Intercept	−3.1035	0.2552	−12.162	<0.001
			<b>Site [level 'K']</b>	<b>−0.4005</b>	<b>0.1768</b>	<b>−2.265</b>	<b>0.032</b>
			<b>Month [level 'September']</b>	<b>0.7759</b>	<b>0.2178</b>	<b>3.563</b>	<b>0.002</b>
			Frame (Site × Month) [level 'July K-3']	1.0807	7.4705	0.145	0.886
			<b>Frame (Site × Month) [level 'July V-3']</b>	<b>−1.3759</b>	<b>0.3420</b>	<b>−4.023</b>	<b>&lt;0.001</b>
			Frame (Site × Month) [level 'Sep K-1']	0.1191	0.1795	0.664	0.513
			Frame (Site × Month) [level 'Sep V-1']	0.4981	0.3046	1.635	0.115
	Variance (Sigma)		Intercept	−2.3113	0.6957	−3.322	0.003
			Site [level 'K']	−0.7719	0.4575	−1.687	0.104
			Month [level 'September']	0.2564	0.6439	0.398	0.694
			Frame (Site × Month) [level 'Jul K-3']	3.3916	6.4896	0.523	0.606
			Frame (Site × Month) [level 'Jul V-3']	−1.0385	0.8693	−1.195	0.243

Frame (Site $\times$ Month) [level 'Sep K-1']	0.7805	0.4442	1.757	0.091
<b>Frame (Site <math>\times</math> Month) [level 'Sep V-1']</b>	<b>1.2077</b>	<b>0.3947</b>	<b>3.060</b>	<b>0.005</b>

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**Table S7.** Effects of plant part age (young or old), month (July or September), and location (sites K or V) on multivariate community structure of epibiosis on *Phycodrys rubens*: type III sum of squares PERMANOVA for 9999 permutations on fourth root transformed covers of sessile epibionts, Bray-Curtis similarity, replicate 0.25 m<sup>2</sup> frames included as a fixed effect nested in Site  $\times$  Month with two levels per site (see Methods for details). Auxiliary non-randomly sampled (in September only) five largest plants per frame not included. Smaller df Significant terms highlighted in bold. [f] – fixed effect, [r] – random effect.

Source of Variation		df	SS	MS	pseudo-F	p	Unique Permutations
Plants having both old and young parts ( $n = 51$ plants)	Site [f]	<b>1</b>	<b>24681</b>	<b>24681</b>	<b>16.86</b>	<b>0.0001</b>	9947
	Month [f]	<b>1</b>	<b>28677</b>	<b>28677</b>	<b>19.60</b>	<b>0.0001</b>	9953
	Age[f]	<b>1</b>	<b>24172</b>	<b>24172</b>	<b>25.84</b>	<b>0.0001</b>	9950
	S $\times$ M [f]	<b>1</b>	<b>6419</b>	<b>6419</b>	<b>4.39</b>	<b>0.0005</b>	9940
	S $\times$ A [f]	<b>1</b>	<b>2921</b>	<b>2921</b>	<b>3.12</b>	<b>0.0068</b>	9952
	M $\times$ A [f]	<b>1</b>	<b>16015</b>	<b>16015</b>	<b>17.12</b>	<b>0.0001</b>	9949
	S $\times$ M $\times$ A [f]	<b>1</b>	<b>1416</b>	<b>1416</b>	<b>1.51</b>	<b>0.1794</b>	9947
	Frame (S $\times$ M) [f]	<b>6</b>	<b>9394</b>	<b>1566</b>	<b>1.07</b>	<b>0.3642</b>	9891
Plant ID (F (S $\times$ M)) [r]		<b>41</b>	<b>59995</b>	<b>1463</b>	<b>1.56</b>	<b>0.0003</b>	9807
Error		47	43960	935			
Plants having only young parts ( $n = 39$ plants)	Site [f]	<b>1</b>	<b>2804</b>	<b>2804</b>	<b>2.78</b>	<b>0.0219</b>	9957
	Month [f]	<b>1</b>	<b>10579</b>	<b>10579</b>	<b>10.48</b>	<b>0.0001</b>	9947
	Frame (S $\times$ M)	<b>3</b>	<b>8047</b>	<b>2682</b>	<b>2.66</b>	<b>0.0013</b>	9930
	S $\times$ M [f]	<b>1</b>	<b>4460</b>	<b>4460</b>	<b>4.42</b>	<b>0.0011</b>	9950
Error		32	32291	1009			

**Table S8.** Effects of plant part size (surface Area of the corresponding part, cm<sup>2</sup>) and location (Sites K or V) on total cover of epibiosis on young and old parts of *Phycodrys rubens* in September 2015: beta-regression, mean (logit link) and variance (log link) modeled, replicate 0.25 m<sup>2</sup> frames included as a fixed effect nested in Site with two levels per site (see Methods for details). Significant terms in a mean model highlighted in bold.

Age	Model	Source of Variation	Estimate	SE	t-value	p
Young parts (n = 80)	Mean (Mu)	Intercept	−2.2541	0.0997	−22.61	<0.001
		<b>Site [level 'K']</b>	<b>−0.3308</b>	<b>0.1340</b>	<b>−2.47</b>	<b>0.016</b>
		<b>Area</b>	<b>−0.0029</b>	<b>0.0012</b>	<b>−2.37</b>	<b>0.020</b>
		Frame (Site) [level 'K-1']	0.1154	0.1270	0.91	0.366
		Frame (Site) [level 'V-2']	0.0991	0.1513	0.66	0.545
		Site × Area	0.0004	0.0015	−0.24	0.811
	Variance (Sigma)	Intercept	−1.9211	0.2008	−9.57	<0.001
		Site [level 'K']	−0.2136	0.2697	−0.79	0.431
		Area	−0.0136	0.0040	−3.36	0.001
		Frame (Site) [level 'K-1']	0.1387	0.2469	0.56	0.576
		Frame (Site) [level 'V-2']	0.8329	0.2478	3.36	0.001
		Site × Area	0.0100	0.0045	2.20	0.031
Old parts (n = 46)	Mean (Mu)	Intercept	−1.6669	0.3269	−5.10	<0.001
		Site [level 'K']	0.4184	0.3469	1.21	0.234
		<b>Area</b>	<b>0.0725</b>	<b>0.0233</b>	<b>3.11</b>	<b>0.003</b>
		<b>Frame (Site) [level 'K-1']</b>	<b>1.8232</b>	<b>0.2531</b>	<b>7.20</b>	<b>&lt;0.001</b>
		Frame (Site) [level 'V-2']	0.0874	0.3569	0.25	0.808
		<b>Site × Area</b>	<b>−0.1001</b>	<b>0.0238</b>	<b>−4.20</b>	<b>&lt;0.001</b>
	Variance (Sigma)	Intercept	−0.6596	0.3505	−1.88	0.067
		Site [level 'K']	−1.1600	0.4515	−2.57	0.014
		Area	0.0049	0.0254	0.19	0.848
		Frame (Site) [level 'K-1']	3.2681	0.3490	9.36	<0.001
		Frame (Site) [level 'V-2']	0.2276	0.3898	0.58	0.563
		Site × Area	−0.0527	0.0272	−1.93	0.060

**Table S9.** Effects of plant part size (surface Area of the corresponding part, cm<sup>2</sup>) and location (Sites K or V) on the number of species and diversity ( $H'$ ) on young and old plant parts of *Phycodrys rubens* in September 2015: type III sum of squares ANCOVAs, replicate 0.25 m<sup>2</sup> frames included as a fixed effect nested in Site with two levels per site (see Methods for details). Arrows show the sign of the relationship where covariate effect or interaction is significant. Significant terms highlighted in bold.

Age	Parameter	Source of Variation	df	Sum of Squares	F-value	$p$	
Young parts	$H'$ (based on % cover)	Site	1	0.0005	0.005	0.943	
		<b>Area</b>	<b>1</b>	<b>1.7016</b>	<b>18.382</b>	<b>&lt;0.001</b>	↑
		Frame (Site)	2	0.1466	0.792	0.457	
		<b>Site × Area</b>	<b>1</b>	<b>1.0697</b>	<b>11.555</b>	<b>0.001</b>	K↑ V↑
		Error	74	6.8503			
	Number of species	Site	1	19.9	3.013	0.087	
		<b>Area</b>	<b>1</b>	<b>647.3</b>	<b>98.126</b>	<b>&lt;0.001</b>	↑
		Frame (Site)	2	3.4	0.256	0.775	
		<b>Site × Area</b>	<b>1</b>	<b>71.2</b>	<b>10.787</b>	<b>0.002</b>	K↑ V↑
		Error	74	488.1			
Old parts	$H'$ (based on % cover)	Site	1	0.3757	1.716	0.198	
		Area	1	0.2804	1.281	0.265	
		<b>Frame (Site)</b>	<b>2</b>	<b>1.9934</b>	<b>4.552</b>	<b>0.017</b>	
		Site × Area	1	0.7530	3.439	0.071	
		Error	40	8.7586			
	Number of species	Site	1	33.7	2.898	0.096	
		<b>Area</b>	<b>1</b>	<b>526.8</b>	<b>45.284</b>	<b>&lt;0.001</b>	↑
		Frame (Site)	2	59.4	2.554	0.090	
		Site × Area	1	4.0	0.343	0.561	
		Error	40	465.3			

**Table S10.** Effects of plant part size (surface Area of the corresponding part, cm<sup>2</sup>) and location (Sites K or V) on multivariate community structure of epibiosis on young and old plant parts of *Phycodrys rubens* in September 2015: type III sum of squares PERMANOVA for 9999 permutations on fourth root transformed covers of sessile epibionts, Bray-Curtis similarity, replicate 0.25 m<sup>2</sup> frames included as a fixed effect nested in Site with two levels per site (see Methods for details). Significant terms highlighted in bold.

Age	Source of Variation	df	SS	MS	pseudo-F	<i>p</i>	Unique Permutations
Young parts	Area	1	5107	5107	6.28	0.0001	9943
	Site	1	13817	13817	16.99	0.0001	9938
	Frame (Site)	2	2842	1421	1.75	0.0362	9937
	Site × Area	1	1563	1563	1.92	0.0650	9917
	Error	74	60185	813			
Old parts	Area	1	4954	4954	4.54	0.0001	9938
	Site	1	9736	9736	8.92	0.0001	9940
	Frame (Site)	2	6122	3061	2.80	0.0002	9908
	Site × Area	1	2294	2294	2.10	0.0296	9946
	Error	40	43660	1092			

**Table S11.** Effects of plant part size (surface Area of the corresponding part, cm<sup>2</sup>) and location (Sites K or V) and on mean individual size (approximated area occupied, mm<sup>2</sup>) of 5 top abundant species on young and old plant parts of *Phycodrys rubens* in September 2015: type III sum of squares ANCOVAs, frames pooled. Arrows show the sign of the relationship where covariate or interaction effect is significant. Significant terms highlighted in bold.

Age	Species	Source of Variation	df	Sum of Squares	F-value	p	
Young parts	<i>Cribrilina annulata</i>	Site	1	$9.86 \times 10^{-6}$	0.3461	0.558	
		Area	1	$1.00 \times 10^{-6}$	0.0351	0.852	
		Site $\times$ Area	1	$2.33 \times 10^{-5}$	0.8181	0.369	
		Error	76	0.0020			
	<i>Electra pilosa</i>	<b>Site</b>	<b>1</b>	<b>0.0014</b>	<b>12.8543</b>	<b>&lt;0.001</b>	V>K
		Area	1	$1.54 \times 10^{-6}$	0.0141	0.906	
		Site $\times$ Area	1	$7.80 \times 10^{-7}$	0.0072	0.933	
		Error	76	0.0069			
	<i>Celleporella hyalina</i>	<b>Site</b>	<b>1</b>	<b>0.0003</b>	<b>4.0997</b>	<b>0.047</b>	V>K
		<b>Area</b>	<b>1</b>	<b>0.0004</b>	<b>5.4123</b>	<b>0.023</b>	↓
		Site $\times$ Area	1	$3.57 \times 10^{-5}$	0.5387	0.466	
		Error	76	0.0043			
	<i>Circeis armoricana</i>	Site	1	$3.74 \times 10^{-7}$	0.5828	0.448	
		Area	1	$1.19 \times 10^{-6}$	1.8561	0.177	
		<b>Site <math>\times</math> Area</b>	<b>1</b>	<b><math>3.59 \times 10^{-6}</math></b>	<b>5.6021</b>	<b>0.021</b>	K↓ V↑
		Error	76	$4.88 \times 10^{-5}$			
	Porifera	Site	1	0.0151	1.3162	0.257	
		Area	1	0.0223	1.9498	0.169	
		Site $\times$ Area	1	0.0076	0.6614	0.420	
		Error	76	0.5378			
Old parts	<i>Cribrilina annulata</i>	Site	1	$3.05 \cdot 10^{-5}$	0.6365	0.432	
		Area	1	$2.76 \times 10^{-5}$	0.5759	0.455	
		Site $\times$ Area	1	$3.91 \times 10^{-5}$	0.8141	0.375	
		Error	42	0.0013			
	<i>Electra pilosa</i>	Site	1	0.0013	2.2583	0.143	
		Area	1	$1.01 \times 10^{-5}$	0.0017	0.967	
		Site $\times$ Area	1	$1.85 \times 10^{-5}$	0.0032	0.955	
		Error	42	0.0181			
	Juvenile mytilids	Site	1	0.0024	1.8196	0.195	
		Area	1	0.0002	0.1323	0.721	
		Site $\times$ Area	1	0.0007	0.4881	0.494	
		Error	42	0.0228			
	<i>Circeis armoricana</i>	Site	1	$3.80 \times 10^{-9}$	0.0023	0.962	
		Area	1	$5.72 \times 10^{-6}$	3.4214	0.073	
		<b>Site <math>\times</math> Area</b>	<b>1</b>	<b><math>8.13 \times 10^{-6}</math></b>	<b>4.8581</b>	<b>0.035</b>	K↑ V↓
		Error	42	$5.52 \cdot 10^{-5}$			
	Porifera	Site	1	0.5229	1.0624	0.309	
		<b>Area</b>	<b>1</b>	<b>2.7079</b>	<b>5.5020</b>	<b>0.024</b>	↑
		<b>Site <math>\times</math> Area</b>	<b>1</b>	<b>2.8871</b>	<b>5.8661</b>	<b>0.020</b>	K- V↑
		Error	42	20.179			

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