

**Supplementary Material for the paper “Epibiotic communities of common crab species in the coastal Barents Sea: biodiversity and infestation patterns” by Alexander G. Dvoretzky, Vladimir G. Dvoretzky**

**Table S1.** Differences among the prevalences of associated organisms on great spider crabs (*Hyas araneus*), northern stone crabs (*Lithodes maja*), and red king crabs (*Paralithodes camtschaticus*) as revealed by Chi-square tests.

<b>Taxa</b>	<b><i>Hyas</i></b>	<b><i>Lithodes</i></b>	<b><i>Paralithodes</i></b>	<b>Differences</b>
<b>Algae</b>				
<i>Acrosiphonia</i> sp.	17.9 <sup>a</sup>	0 <sup>b</sup>	0 <sup>b</sup>	Significant
<i>Alaria esculenta</i>	5.1	0	0	No
<i>Chordaria flagelliformis</i>	25.6 <sup>a</sup>	0 <sup>b</sup>	0 <sup>b</sup>	Significant
<i>Desmarestia aculeata</i>	12.8 <sup>a</sup>	0 <sup>b</sup>	0 <sup>b</sup>	Significant
<i>Dictyosiphon foeniculaceus</i>	23.1 <sup>a</sup>	0 <sup>b</sup>	0 <sup>b</sup>	Significant
<i>Laminaria digitata</i>	5.1	0	0	No
<i>Palmaria palmata</i>	28.2 <sup>a</sup>	0 <sup>b</sup>	0 <sup>b</sup>	Significant
<i>Ptilota plumosa</i>	30.8 <sup>a</sup>	0 <sup>b</sup>	0 <sup>b</sup>	Significant
<i>Saccharina latissima</i>	10.3 <sup>a</sup>	0 <sup>b</sup>	0 <sup>b</sup>	Significant
<i>Ulvaria obscura</i>	23.1 <sup>a</sup>	0 <sup>b</sup>	0 <sup>b</sup>	Significant
<b>Hydrozoa</b>				
<i>Coryne hincksii</i>	2.6	0	0	No
<i>Halecium beanii</i>	2.6	0	2.4	No
<i>Obelia geniculata</i>	10.3 <sup>a</sup>	48.6 <sup>b</sup>	4.8 <sup>a</sup>	Significant
<i>Obelia longissima</i>	17.9 <sup>a</sup>	94.6 <sup>b</sup>	66.7 <sup>c</sup>	Significant
<b>Turbellaria</b>				
<i>Peraclistus oophagus</i>	23.1 <sup>a</sup>	0 <sup>b</sup>	0 <sup>b</sup>	Significant
<b>Nemertini</b>				
Nemertini g. sp.	10.3	10.8	2.4	No
<b>Polychaeta</b>				
<i>Bushiella (Jugaria) similis</i>	0	2.7	0	No
<i>Circeis armoricana</i>	38.5	59.5	33.3	No
<i>Eumida sanguinea</i>	0.0	5.4	2.4	No
<i>Harmothoe imbricata</i>	0 <sup>a</sup>	70.3 <sup>b</sup>	33.3 <sup>c</sup>	Significant
<i>Lepidonotus squamatus</i>	0	2.7	0	No
<i>Placostegus tridentatus</i>	43.6 <sup>a</sup>	64.9 <sup>a</sup>	0 <sup>b</sup>	Significant
<i>Protula tubularia</i>	7.7	0	0	No
<i>Spirobranchus triqueter</i>	20.5 <sup>a</sup>	8.1 <sup>ab</sup>	0 <sup>b</sup>	Significant
<b>Hirudinea</b>				
<i>Crangonobdella fabricii</i>	0	0	2.4	No
<i>Johanssonia arctica</i>	0 <sup>a</sup>	2.7 <sup>ab</sup>	11.9 <sup>b</sup>	Significant
<i>Platibdella olriki</i>	2.6	0	0	No
<b>Bivalvia</b>				
<i>Heteranomia scuamula</i>	7.7 <sup>a</sup>	48.6 <sup>b</sup>	9.5 <sup>a</sup>	Significant
<i>Hiatella arctica</i>	0 <sup>a</sup>	13.5 <sup>b</sup>	4.8 <sup>a</sup>	Significant
<i>Mytilus edulis</i>	10.3 <sup>a</sup>	32.4 <sup>b</sup>	26.2 <sup>ab</sup>	Significant
<b>Gastropoda</b>				
<i>Margarites</i> sp.	5.1	0	0	No
<b>Copepoda</b>				
<i>Calanus finmarchicus</i>	2.6	0	0	No
<i>Ectinosoma neglectum</i>	25.6 <sup>a</sup>	2.7 <sup>b</sup>	0 <sup>b</sup>	Significant
<i>Harpacticus uniremis</i>	46.2 <sup>a</sup>	0 <sup>b</sup>	2.4 <sup>b</sup>	Significant
<i>Tisbe furcata</i>	30.8 <sup>a</sup>	8.1 <sup>b</sup>	2.4 <sup>b</sup>	Significant
<i>Zaus abbreviatus</i>	2.6	0	0	No

<b>Amphipoda</b>				
<i>Ampelisca</i> sp.	0	0	2.4	No
<i>Gamarellus homari</i>	10.3	5.4	2.4	No
<i>Hippomedon propinquus</i>	5.1	0	0	No
<i>Ischyrocerus anguipes</i>	12.8 <sup>a</sup>	48.6 <sup>b</sup>	52.4 <sup>b</sup>	Significant
<i>Ischyrocerus commensalis</i>	5.1 <sup>a</sup>	94.6 <sup>b</sup>	100 <sup>b</sup>	Significant
<b>Cirripedia</b>				
<i>Balanus balanus</i>	2.6 <sup>a</sup>	35.1 <sup>b</sup>	4.8 <sup>a</sup>	Significant
<i>Balanus crenatus</i>	0 <sup>a</sup>	32.4 <sup>b</sup>	26.2 <sup>b</sup>	Significant
<i>Verruca stroemia</i>	2.6	0	0	No
<b>Bryozoa</b>				
<i>Bugula harmsworthi</i>	5.1	0	0	No
<i>Callopora lineata</i>	7.7 <sup>a</sup>	29.7 <sup>b</sup>	4.8 <sup>a</sup>	Significant
<i>Crisia denticulata</i>	0 <sup>a</sup>	10.8 <sup>b</sup>	0 <sup>a</sup>	Significant
<i>Lichenopora hispida</i>	7.7 <sup>a</sup>	27.0 <sup>b</sup>	4.8 <sup>a</sup>	Significant
<i>Lichenopora verrucaria</i>	15.4 <sup>a</sup>	13.5 <sup>a</sup>	2.4 <sup>b</sup>	Significant
<i>Porella smitti</i>	2.6	0	0	No
<i>Scrupocellaria arctica</i>	10.3 <sup>ab</sup>	18.9 <sup>a</sup>	4.8 <sup>b</sup>	Significant

Note. Different letters indicate significant differences (Chi-square test,  $p < 0.05$ )

**Table S2.** Differences among mean intensities of common associated organisms on great spider crabs (*Hyas araneus*), northern stone crabs (*Lithodes maja*), and red king crabs (*Paralithodes camtschaticus*) as revealed by Kruskal-Wallis tests followed by Bonferroni tests for medians.

Taxa	<i>Hyas</i>	<i>Lithodes</i>	<i>Paralithodes</i>	Differences
<b>Nemertini</b>				
Nemertini g. sp.	15.8±10.1	4.3±2.6	1.0±0.0*	No
<b>Polychaeta</b>				
<i>Circeis armoricana</i>	23.9±6.5 <sup>a</sup>	89.4±32.5 <sup>a</sup>	5.3±2.3 <sup>b</sup>	Significant
<i>Harmothoe imbricata</i>	–	1.3±0.2	1.4±0.2	No
<b>Bivalvia</b>				
<i>Heteranomia scuamula</i>	3±1.5	13.9±9.4	2.0±0.7	No
<i>Hiatella arctica</i>	–	4.4±2.4	1.5±0.5	No
<i>Mytilus edulis</i>	1.3±0.3	1.4±0.2	2.1±0.6	No
<b>Copepoda</b>				
<i>Tisbe furcata</i>	79.3±18.3 <sup>a</sup>	2.0±0.6 <sup>b</sup>	17.0±0.0*	Significant
<b>Amphipoda</b>				
<i>Ischyrocerus anguipes</i>	5.8±4.1	9.1±1.2	9.4±3.4	No
<i>Ischyrocerus commensalis</i>	5.5±1.5 <sup>a</sup>	26.5±3.5 <sup>b</sup>	79.8±11.6 <sup>c</sup>	Significant
<b>Cirripedia</b>				
<i>Balanus crenatus</i>	–	3.2±0.6	2.9±0.8	No

Note. Mean values are presented with standard errors. Different letters indicate significant differences (Bonferroni test,  $p < 0.05$ ). \* – excluded from the analysis due to low sample size.