

## Spatial patterns in early post-settlement processes of the green sea urchin *Strongylocentrotus droebachiensis*

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**Supplement.** Table S1. Average abundance of organisms in the cages for the with-suite treatments at the end of the experiment at the 6 sites in 2008

|                                | Birch<br>Cove | Dick's<br>Island | Minister's<br>Island | Tongue<br>Shoal | Midjic<br>Bluff | Clark's<br>Point |
|--------------------------------|---------------|------------------|----------------------|-----------------|-----------------|------------------|
| Amphipod Corophium             | 38.5          | 37.5             | 21.5                 | 21.6            | 52.1            | 40.7             |
| Amphipod Gammaridean           | 1.4           | 1.8              | 3.8                  | 16.2            | 19.8            | 16.4             |
| Amphipod sp.                   | 0.5           | 0.4              | 0.0                  | 0.0             | 0.1             | 0.0              |
| <i>Amphiporus angulatus</i>    | 0.0           | 0.0              | 0.0                  | 0.0             | 0.2             | 0.1              |
| <i>Amphitrite cirrata</i>      | 0.0           | 0.0              | 0.1                  | 0.0             | 0.0             | 0.0              |
| <i>Amphitrite ornata</i>       | 0.1           | 0.0              | 0.0                  | 0.0             | 0.0             | 0.0              |
| Anenome sp. 1                  | 0.0           | 0.0              | 0.0                  | 0.4             | 0.3             | 0.0              |
| Anenome sp. 2                  | 0.0           | 0.1              | 0.3                  | 0.0             | 0.0             | 3.7              |
| <i>Anomia simplex</i>          | 47.6          | 28.7             | 25.2                 | 25.2            | 10.3            | 10.4             |
| <i>Anomia squamula</i>         | 3.2           | 1.6              | 0.8                  | 1.1             | 0.1             | 0.2              |
| Arabellid unknown              | 0.0           | 0.1              | 0.0                  | 0.0             | 0.0             | 0.1              |
| Ascidian sp.                   | 0.0           | 0.0              | 0.0                  | 0.1             | 0.0             | 0.0              |
| Astarte sp.                    | 0.0           | 0.0              | 0.1                  | 0.0             | 0.0             | 0.0              |
| Asterias spp.                  | 0.1           | 0.5              | 1.1                  | 0.4             | 0.2             | 0.5              |
| <i>Axiognathus squamatus</i>   | 1.3           | 1.2              | 2.4                  | 0.9             | 0.3             | 0.4              |
| <i>Boltenia echinata</i>       | 0.2           | 0.2              | 0.0                  | 0.0             | 0.1             | 0.1              |
| <i>Buccinum undatum</i>        | 0.0           | 0.1              | 0.2                  | 0.1             | 0.1             | 0.0              |
| Capitellidae worm sp. 1        | 0.7           | 0.2              | 0.0                  | 0.0             | 0.1             | 0.0              |
| Capitellidae worm sp. 2        | 0.0           | 0.1              | 0.0                  | 0.0             | 0.3             | 0.5              |
| <i>Caprella linearis</i>       | 0.0           | 0.1              | 0.0                  | 0.0             | 0.0             | 0.0              |
| <i>Cerastoderma pinnulatum</i> | 2.4           | 0.7              | 1.2                  | 1.1             | 3.6             | 3.5              |
| <i>Chiridota laevis</i>        | 0.1           | 0.0              | 0.3                  | 0.0             | 0.0             | 0.0              |
| <i>Ciona intestudinalis</i>    | 3.3           | 0.7              | 0.8                  | 0.4             | 6.7             | 1.0              |
| <i>Cirratulus cirratus</i>     | 0.2           | 0.6              | 0.2                  | 0.1             | 0.0             | 0.0              |
| Cirripedia larvae              | 0.0           | 0.0              | 0.0                  | 0.0             | 0.1             | 0.0              |
| Clam sp.                       | 0.2           | 0.0              | 0.8                  | 0.1             | 0.0             | 0.1              |
| <i>Clinocardium ciliatum</i>   | 0.0           | 0.0              | 0.2                  | 0.0             | 0.3             | 0.0              |
| Colus sp.                      | 0.6           | 0.8              | 0.2                  | 0.0             | 0.0             | 0.2              |
| <i>Crepidula fornicata</i>     | 14.6          | 7.7              | 1.8                  | 0.9             | 1.3             | 0.4              |
| <i>Crucibulum striatum</i>     | 0.0           | 0.0              | 2.2                  | 0.0             | 0.0             | 0.0              |

|                                 |      |      |      |      |     |      |
|---------------------------------|------|------|------|------|-----|------|
| <i>Cucumaria frondosa</i>       | 0.1  | 0.1  | 0.6  | 0.0  | 0.0 | 0.0  |
| <i>Demonax microphthalma</i>    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.5  |
| <i>Dendrodoa carnea</i>         | 0.1  | 0.1  | 0.1  | 0.0  | 0.2 | 0.7  |
| <i>Didemnum albidum</i>         | 0.0  | 0.0  | 0.0  | 0.0  | 0.2 | 0.1  |
| <i>Discocelides ellipsoides</i> | 0.0  | 0.0  | 0.0  | 0.1  | 0.0 | 0.0  |
| <i>Dodecaceria concharum</i>    | 13.0 | 9.5  | 4.4  | 3.1  | 3.2 | 5.4  |
| <i>Drilonereis magna</i>        | 0.0  | 0.1  | 0.0  | 0.1  | 0.0 | 0.0  |
| <i>Eualus pusiolus</i>          | 0.0  | 0.2  | 0.0  | 0.1  | 0.1 | 0.2  |
| <i>Euplana gracilis</i>         | 0.1  | 0.5  | 0.2  | 0.4  | 0.0 | 0.3  |
| Gastropod spp.                  | 0.1  | 0.1  | 0.0  | 0.0  | 0.0 | 0.0  |
| <i>Halocynthia pyriformis</i>   | 0.1  | 0.3  | 0.0  | 0.5  | 1.2 | 0.0  |
| <i>Haminoea solitaria</i>       | 0.2  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  |
| <i>Harmothoe extenuata</i>      | 3.7  | 8.5  | 4.3  | 3.5  | 1.9 | 2.6  |
| <i>Harmothoe imbricata</i>      | 5.8  | 6.3  | 5.4  | 4.5  | 2.9 | 3.4  |
| <i>Henricia sanguinolenta</i>   | 0.0  | 0.0  | 0.0  | 0.2  | 0.2 | 0.0  |
| <i>Hiatella arctica</i>         | 26.8 | 31.7 | 12.6 | 13.4 | 5.1 | 21.2 |
| Isopod spp.                     | 0.1  | 0.3  | 0.1  | 0.3  | 0.1 | 0.0  |
| <i>Lacuna vincta</i>            | 0.0  | 0.0  | 0.0  | 0.0  | 0.3 | 0.0  |
| <i>Lepidonotus squamatus</i>    | 4.2  | 6.9  | 6.2  | 9.2  | 2.6 | 1.9  |
| Littorina spp.                  | 0.2  | 0.0  | 0.2  | 0.1  | 0.0 | 0.0  |
| Maldanidae spp.                 | 0.2  | 0.0  | 0.0  | 0.1  | 0.0 | 0.4  |
| <i>Margarites groenlodicus</i>  | 0.2  | 0.0  | 0.0  | 0.0  | 0.0 | 0.3  |
| <i>Margarites helycinus</i>     | 0.1  | 0.0  | 0.0  | 0.1  | 0.1 | 0.2  |
| Mite spp.                       | 0.8  | 0.0  | 0.4  | 2.8  | 0.3 | 0.4  |
| <i>Modiolus modiolus</i>        | 0.4  | 0.5  | 0.3  | 1.1  | 0.8 | 0.4  |
| <i>Mya truncata</i>             | 3.3  | 1.6  | 3.0  | 2.8  | 0.5 | 4.1  |
| Mytilidae spp.                  | 1.0  | 0.9  | 0.7  | 5.8  | 1.5 | 0.8  |
| <i>Myxicola infundibulum</i>    | 0.0  | 0.0  | 0.0  | 0.0  | 0.1 | 0.3  |
| <i>Neoamphitrite figulus</i>    | 0.0  | 0.1  | 0.0  | 0.0  | 0.0 | 0.0  |
| Nereis spp.                     | 0.0  | 0.0  | 0.2  | 0.0  | 0.1 | 0.1  |
| <i>Nino nigripes</i>            | 0.0  | 0.0  | 0.0  | 0.0  | 0.2 | 0.0  |
| <i>Nucula proxima</i>           | 0.2  | 0.0  | 0.1  | 0.3  | 0.8 | 0.7  |
| <i>Nucula tenuis</i>            | 0.1  | 0.1  | 0.1  | 0.0  | 0.0 | 0.3  |
| Onchidorididae spp.             | 0.0  | 0.0  | 0.0  | 0.0  | 0.2 | 0.0  |
| <i>Ophelina acuminata</i>       | 0.2  | 0.3  | 0.1  | 0.1  | 0.3 | 0.3  |
| <i>Ophiopolis aculeata</i>      | 0.0  | 0.0  | 0.2  | 0.0  | 0.0 | 0.0  |
| Ophiuroidea unknown spp.        | 0.6  | 0.6  | 0.9  | 0.0  | 0.2 | 0.1  |
| Ostracod sp. 1                  | 5.8  | 6.5  | 1.7  | 2.5  | 0.2 | 1.2  |
| Ostracod sp. 2                  | 1.5  | 1.4  | 0.5  | 0.8  | 0.0 | 0.1  |
| Ostracod sp. 3                  | 2.2  | 6.8  | 2.1  | 4.1  | 1.7 | 3.5  |
| <i>Pectinaria gouldii</i>       | 0.5  | 0.2  | 1.8  | 0.7  | 0.9 | 1.2  |
| <i>Pherusa affinis</i>          | 0.1  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  |
| <i>Pherusa plumosa</i>          | 0.1  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  |
| <i>Pholoe minuta</i>            | 24.2 | 21.5 | 8.8  | 31.0 | 4.0 | 5.3  |
| <i>Phyllodoce mucosa</i>        | 0.1  | 0.3  | 0.1  | 0.1  | 0.3 | 0.2  |
| Phyllodocidae sp. 1             | 0.1  | 0.4  | 0.2  | 0.2  | 0.1 | 0.5  |
| Phyllodocidae sp. 2             | 0.2  | 0.5  | 0.0  | 0.1  | 0.0 | 0.0  |

|  |       |        |        |       |       |       |
|--|-------|--------|--------|-------|-------|-------|
| <i>Plactopecten magellanicus</i>         | 0.2   | 0.0    | 0.1    | 0.1   | 1.7   | 0.3   |
| <i>Psolus fabricii</i>                   | 0.6   | 0.1    | 3.7    | 0.2   | 0.1   | 0.0   |
| <i>Puncturella noachina</i>              | 0.0   | 0.0    | 0.1    | 0.0   | 0.3   | 0.5   |
| Rissoidae sp. 1                          | 0.0   | 0.1    | 0.2    | 0.0   | 0.0   | 0.1   |
| Rissoidae sp. 2                          | 0.2   | 2.0    | 0.2    | 0.0   | 0.0   | 0.2   |
| Sabellidae spp.                          | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.3   |
| <i>Scaphander punctostriatus</i>         | 0.1   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| <i>Scoletoma fragilis</i>                | 0.0   | 0.0    | 0.1    | 0.0   | 0.0   | 0.1   |
| <i>Semibalanus balanoides</i>            | 0.1   | 0.0    | 0.0    | 0.1   | 0.0   | 0.0   |
| Shrimp larvae                            | 0.1   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| Shrimp spp.                              | 0.1   | 0.1    | 0.0    | 0.0   | 0.1   | 0.0   |
| <i>Skeneopsis planorbis</i>              | 0.0   | 0.8    | 0.6    | 0.0   | 0.0   | 0.0   |
| Sponge spp.                              | 0.1   | 0.0    | 0.1    | 0.1   | 1.3   | 0.1   |
| <i>Strongylocentrotus droebachiensis</i> | 13.5  | 56.4   | 31.3   | 40.8  | 17.1  | 15.3  |
| (>6 mm)                                  | (3.5) | (13.6) | (11.4) | (9.5) | (3.7) | (9.5) |
| <i>Syllis cornuta</i>                    | 0.0   | 0.2    | 0.8    | 0.0   | 0.0   | 0.4   |
| <i>Tectura testudinalis</i>              | 20.2  | 10.5   | 2.9    | 2.2   | 5.2   | 10.5  |
| Terebillid sp.                           | 0.0   | 0.2    | 0.1    | 0.4   | 0.3   | 0.5   |
| <i>Tonicella marmorea</i>                | 15.6  | 20.4   | 13.2   | 11.4  | 16.4  | 16.1  |
| <i>Tonicella rubra</i>                   | 45.2  | 62.7   | 37.5   | 24.8  | 16.3  | 20.6  |
| Tunicate sp.                             | 0.2   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| Whelk sp.                                | 0.0   | 0.0    | 0.1    | 0.0   | 0.0   | 0.0   |
| Worm sp. 11                              | 0.0   | 0.0    | 0.0    | 0.0   | 0.1   | 0.0   |
| Worm sp. 13                              | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.1   |
| Worm sp. 7                               | 0.0   | 0.0    | 0.2    | 0.0   | 0.0   | 0.0   |
| Worm sp. 8                               | 0.0   | 0.0    | 0.1    | 0.0   | 0.0   | 0.1   |
| Worm sp. 9                               | 0.0   | 0.0    | 0.0    | 0.0   | 0.4   | 0.2   |