Depth distribution of the amoebic gill disease agent, 
*Neoparamoeba perurans*, in salmon sea-cages

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Supplement.

Table S1. Model selection of an *a priori* candidate set of generalised linear mixed models (GLMMs) with a Gaussian distribution explaining fourth-root transformed amoeba abundance in sea-cages at time 1. AIC<sub>c</sub> is the Akaike Information Criterion with a correction for small sample sizes; ΔAIC<sub>c</sub> is the difference in AIC<sub>c</sub> relative to the best model; and w<sub>i</sub> is the relative likelihood for the model. Models use site as a random factor.

<table>
<thead>
<tr>
<th>Model</th>
<th>AIC&lt;sub&gt;c&lt;/sub&gt;</th>
<th>ΔAIC&lt;sub&gt;c&lt;/sub&gt;</th>
<th>w&lt;sub&gt;i&lt;/sub&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth</td>
<td>90.7</td>
<td>0.00</td>
<td>0.37</td>
</tr>
<tr>
<td>Time since freshwater bathing * Depth</td>
<td>91.6</td>
<td>0.96</td>
<td>0.23</td>
</tr>
<tr>
<td>Time since freshwater bathing + Depth</td>
<td>92.7</td>
<td>1.99</td>
<td>0.14</td>
</tr>
<tr>
<td>Null model</td>
<td>93.0</td>
<td>2.30</td>
<td>0.12</td>
</tr>
<tr>
<td>Water temperature</td>
<td>94.7</td>
<td>4.01</td>
<td>0.05</td>
</tr>
<tr>
<td>Salinity</td>
<td>94.7</td>
<td>4.02</td>
<td>0.05</td>
</tr>
<tr>
<td>Time since FWB</td>
<td>95.0</td>
<td>4.29</td>
<td>0.04</td>
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</tbody>
</table>

Table S2. Model selection of GLMMs with a Gaussian distribution explaining fourth-root transformed amoeba abundance in sea-cages at time 2.

<table>
<thead>
<tr>
<th>Model</th>
<th>AIC&lt;sub&gt;c&lt;/sub&gt;</th>
<th>ΔAIC&lt;sub&gt;c&lt;/sub&gt;</th>
<th>w&lt;sub&gt;i&lt;/sub&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time since freshwater bathing</td>
<td>48.0</td>
<td>0.00</td>
<td>0.64</td>
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<tr>
<td>Time since freshwater bathing + Depth</td>
<td>49.2</td>
<td>1.12</td>
<td>0.36</td>
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<tr>
<td>Time since freshwater bathing * Depth</td>
<td>64.1</td>
<td>16.07</td>
<td>0.00</td>
</tr>
<tr>
<td>Water temperature</td>
<td>67.7</td>
<td>19.70</td>
<td>0.00</td>
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<tr>
<td>Null model</td>
<td>68.9</td>
<td>20.82</td>
<td>0.00</td>
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<tr>
<td>Depth</td>
<td>70.3</td>
<td>22.29</td>
<td>0.00</td>
</tr>
<tr>
<td>Salinity</td>
<td>70.5</td>
<td>22.48</td>
<td>0.00</td>
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</tbody>
</table>

Table S3. Model selection of GLMMs with a Gaussian distribution explaining fourth-root transformed amoeba abundance in sea-cages at time 3.

<table>
<thead>
<tr>
<th>Model</th>
<th>AIC&lt;sub&gt;c&lt;/sub&gt;</th>
<th>ΔAIC&lt;sub&gt;c&lt;/sub&gt;</th>
<th>w&lt;sub&gt;i&lt;/sub&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time since freshwater bathing</td>
<td>64.7</td>
<td>0.00</td>
<td>0.30</td>
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<tr>
<td>Salinity</td>
<td>65.4</td>
<td>0.66</td>
<td>0.21</td>
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<tr>
<td>Water temperature</td>
<td>66.0</td>
<td>1.29</td>
<td>0.15</td>
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<tr>
<td>Time since freshwater bathing + Depth</td>
<td>66.1</td>
<td>1.41</td>
<td>0.15</td>
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<tr>
<td>Null model</td>
<td>67.0</td>
<td>2.31</td>
<td>0.09</td>
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<tr>
<td>Time since freshwater bathing * Depth</td>
<td>68.5</td>
<td>3.75</td>
<td>0.05</td>
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<tr>
<td>Depth</td>
<td>68.5</td>
<td>3.79</td>
<td>0.05</td>
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