| **Metric** | **Term** | **Estimate** | **Standard Error** | **T Value** | **p** |
| --- | --- | --- | --- | --- | --- |
| Richness (Breakaway – Betta) | Intercept | 3.8 x 103 | 2.4 x 102 | NA | **< 0.001** |
| log(Size Class) | 2.7 x 102 | 6.1 x 101 | NA | **< 0.001** |
| log(Size Class)2 | -7.3 x 101 | 1.2 x 101 | NA | **< 0.001** |
| Salinity | -4.1 x 102 | 2.1 x 101 | NA | **< 0.001** |
| Salinity2 | 1.8 x 101 | 1.2 x 100 | NA | **< 0.001** |
| Oxygen | -6.9 x 101 | 3.1 x 102 | NA | 0.825 |
| Depth | 1.8 x 101 | 1.0 x 101 | NA | 0.075 |
| Richness (Breakaway – LM) | Intercept | 3.9 x 103 | 8.1 x 102 | 4.740 | **< 0.001** |
| log(Size Class) | 3.2 x 102 | 1.9 x 102 | 1.670 | 0.099 |
| log(Size Class)2 | -8.4 x 101 | 3.6 x 101 | -2.326 | **0.023** |
| Salinity | -4.5 x 102 | 1.8 x 102 | -2.454 | **0.017** |
| Salinity2 | 2.4 x 101 | 9.3 x 100 | 2.550 | **0.013** |
| Oxygen | 4.3 x 102 | 7.7 x 102 | 0.558 | 0.579 |
| Depth | 3.0 x 100 | 3.4 x 101 | 0.089 | 0.930 |
| Diversity (Shannon H) | Intercept | 5.3 x 100 | 2.0 x 10-1 | 26.531 | **< 0.001** |
| log(Size Class) | 2.2 x 10-1 | 4.8 x 10-2 | 4.656 | **< 0.001** |
| log(Size Class)2 | -4.0 x 10-2 | 8.9 x 10-3 | -4.463 | **< 0.001** |
| Salinity | -6.1 x 10-2 | 4.6 x 10-2 | -1.339 | 0.185 |
| Salinity2 | 2.5 x 10-3 | 2.3 x 10-3 | 1.081 | 0.284 |
| Oxygen | -1.0 x 10-1 | 1.9 x 10-1 | -0.542 | 0.590 |
| Depth | -1.8 x 10-2 | 8.4 x 10-3 | -2.090 | **0.040** |
| Evenness (Pielou J) | Intercept | 6.1 x 10-4 | 6.6 x 10-3 | 0.092 | 0.927 |
| log(Size Class) | -3.6 x 10-3 | 1.6 x 10-3 | -2.182 | **0.033** |
| log(Size Class)2 | 6.0 x 10-4 | 3.1 x 10-4 | 1.965 | 0.053 |
| Salinity | 1.0 x 10-3 | 1.5 x 10-3 | 0.687 | 0.494 |
| Salinity2 | -3.4 x 10-5 | 7.8 x 10-5 | -0.432 | 0.667 |
| Oxygen | 2.1 x 10-3 | 2.8 x 10-3 | 0.738 | 0.463 |