|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Density ~ Complexity | | Density ~ Complexity + Environment | | Density ~ Complexity + Environment + (1|Site) | |
| Rhodolith complexity (PC1) | **0.19 \*\*\*** | **(0.05)** | **0.13 \*** | **(0.05)** | 0.03 | (0.07) |
| Bed complexity (PC2) | **0.28 \*\*\*** | **(0.05)** | -0.02 | (0.06) | 0.11 | (0.07) |
| PC1:PC2 | **-0.35 \*\*\*** | **(0.05)** | **-0.19 \*\*\*** | **(0.05)** | 0.07 | (0.06) |
| Mean current velocity |  |  | **-0.27 \*\*\*** | **(0.05)** | -0.51 | (0.24) |
| Depth |  |  | **-0.31 \*\*\*** | **(0.06)** | 0.09 | (0.14) |
| Exposure |  |  | 0.11 | (0.07) | 0.15 | (0.19) |
| Gravel |  |  | **0.21 \*\*\*** | **(0.05)** | 0.05 | (0.05) |
| Organic Matter % |  |  | **0.18 \*\*** | **(0.06)** | **0.15 \*\*** | **(0.05)** |
| Mean Temperature |  |  | **0.09 \*** | **(0.04)** | 0.06 | (0.03) |
| Year |  |  | 0.04 | (0.04) | 0.05 | (0.03) |
| N | 348 |  | 348 |  | 348 |  |
| DF | 344.00 |  | 337.00 |  | 335.00 |  |
| AIC | 889.49 |  | 753.38 |  | 687.53 |  |
| BIC | 908.75 |  | 799.60 |  | 737.61 |  |
| Marginal R2 |  |  |  |  | 0.24 |  |
| Conditional R2 | 0.26 |  | 0.52 |  | 0.70 |  |
| Adjusted R2 | 0.25 |  | 0.50 |  |  |  |
| F | 39.46 |  | 36.03 |  |  |  |
| p-value | 0.00 |  | 0.00 |  |  |  |
| All continuous predictors are mean-centered and scaled by 1 standard deviation. \*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05. | | | | | | |