**Table S1: Three-way PERMANOVA testing for differences in the assemblage of targeted species**. Comparisons are between MPA status and depth at Guam locations, and between jurisdiction and depth at sheltered and exposed sites. Significant pvalues (< 0.05) are shown in bold.

|  |  |  |
| --- | --- | --- |
|  | *Guam West* | *Guam North* |
| **Source** | ***df*** | ***MS*** | ***F*** | ***P*** | ***df*** | ***MS*** | ***F*** | ***P*** |
| MPA Status | 1 | 5.942 | 1.132 | 0.302 | 1 | 6.280 | 1.149 | 0.306 |
| Depth | 1 | 32.250 | 6.145 | **0.001** | 1 | 19.842 | 3.629 | **0.002** |
| ST x DE | 1 | 4.374 | 0.833 | 0.682 | 1 | 5.066 | 0.926 | 0.540 |
| Site (ST x DE) | 10 | 5.248 | 1.658 | **<0.001** | 8 | 5.468 | 1.461 | **<0.001** |
| Residual | 56 | 7.277 |   |   | 48 | 3.743 |   |   |
|  | *Sheltered* | *Exposed* |
| Jurisdiction | 1 | 13.111 | 2.286 | **0.014** | 1 | 9.581 | 1.632 | 0.052 |
| Depth | 1 | 23.029 | 4.016 | **0.001** | 1 | 22.767 | 3.878 | **<0.001** |
| JU x DE | 1 | 10.740 | 1.873 | **0.042** | 1 | 5.414 | 0.922 | 0.534 |
| Site (JU x DE) | 12 | 5.735 | 1.822 | **<0.001** | 12 | 5.872 | 1.562 | **<0.001** |
| Residual | 64 | 3.148 |   |   | 64 | 3.758 |   |   |