**Table S3: ANOVAs examining the biomass of fished species and primary consumers.** Comparisons are between MPA status and depth at the two Guam locations and between jurisdiction and depth, at sheltered and exposed sites. Significant pvalues (< 0.05) are shown in bold.

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | *Guam West* | *Guam North* |
|  |   | ***df*** | ***MS*** | ***F*** | ***P*** | ***df*** | ***MS*** | ***F*** | ***P*** |
| **Fished**  | MPA status | 1 | 159.97 | 5.1 | **0.048** | 1 | 5.94 | 0.07 | 0.794 |
| **species** | Depth | 1 | 13.01 | 0.41 | 0.534 | 1 | 155.44 | 1.92 | 0.204 |
|  | ST x DE | 1 | 95.25 | 3.03 | 0.112 | 1 | 93.17 | 1.15 | 0.315 |
|  | Site (ST x DE) | 10 | 31.38 | 1 | 0.458 | 8 | 81.11 | 2.42 | **0.028** |
|   | Error | 56  | 31.5 |   |   | 48 | 33.51 |   |   |
| **Primary**  | MPA status | 1 | 0.5295 | 3.43 | 0.094 | 1 | 7.24 | 0.24 | 0.64 |
| **consumers** | Depth | 1 | 4.5904 | 29.75 | **<0.001** | 1 | 36.6 | 1.19 | 0.307 |
|  | ST x DE | 1 | 0.6897 | 4.47 | 0.061 | 1 | 8.42 | 0.27 | 0.615 |
|  | Site (ST x DE) | 10 | 0.1543 | 0.6 | 0.805 | 8 | 30.68 | 4.22 | **<0.001** |
|   | Error | 56 | 0.2563 |   |   | 48 | 7.28 |   |   |
|  |   | *Sheltered* | *Exposed* |
| **Fished**  | Jurisdiction | 1 | 93.77 | 2.16 | 0.167 | 1 | 70.2 | 1.19 | 0.296 |
| **species** | Depth | 1 | 41.03 | 0.94 | 0.35 | 1 | 106.1 | 1.8 | 0.204 |
|  | JU x DE | 1 | 0.06 | 0 | 0.972 | 1 | 46.96 | 0.8 | 0.389 |
|  | Site (JU x DE) | 12 | 43.42 | 1.61 | 0.112 | 12 | 58.86 | 1.61 | 0.112 |
|   | Error | 64 | 27.02 |   |   | 64 | 36.65 |   |   |
| **Primary**  | Jurisdiction | 1 | 0 | 0 | 0.972 | 1 | 0.02 | 0.02 | 0.881 |
| **consumers** | Depth | 1 | 0.38 | 1.53 | 0.239 | 1 | 2.81 | 2.76 | 0.123 |
|  | JU x DE | 1 | 0.49 | 2.01 | 0.182 | 1 | 0.46 | 0.45 | 0.516 |
|  | Site (JU x DE) | 12 | 0.25 | 1.11 | 0.37 | 12 | 1.02 | 2.37 | **0.014** |
|   | Error | 64 | 0.22 |   |   | 64 | 0.43 |   |   |