**Table S4: ANOVAs examining the lengths of scarines and acanthurids.** Comparisons are between factors 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*** |
| **Scarines** | MPA status | 1 | 12651 | 3.75 | 0.053 | | 1 | | 15091 | 4.38 | **0.037** |
|  | Depth | 1 | 12726 | 3.77 | 0.053 | | 1 | | 24317 | 7.05 | **0.008** |
|  | ST x DE | 1 | 457 | 0.14 | 0.713 | | 1 | | 77761 | 22.56 | **<0.001** |
|  | Error | 377 | 3372 |  |  | | 238 | | 3447 |  |  |
| **Acanthurids** | MPA status | 1 | 1018 | 0.26 | 0.611 | | 1 | | 1958 | 0.38 | 0.536 |
|  | Depth | 1 | 1339 | 0.34 | 0.56 | | 1 | | 40461 | 7.92 | **0.005** |
|  | ST x DE | 1 | 6146 | 1.56 | 0.212 | | 1 | | 3517 | 0.69 | 0.407 |
|  | Error | 396 | 3928 |  |  | | 315 | | 5106 |  |  |
|  |  | *Sheltered* | | | | | *Exposed* | | | | |
| **Scarines** | Jurisdiction | 1 | 3109 | 1.07 | | 0.302 | 1 | 16935 | | 4.04 | **0.046** |
|  | Depth | 1 | 5609 | 1.93 | | 0.166 | 1 | 4758 | | 1.13 | 0.288 |
|  | JU x DE | 1 | 24334 | 8.37 | | **0.004** | 1 | 3389 | | 0.81 | 0.37 |
|  | Error | 314 | 2908 |  | |  | 314 | 4197 | |  |  |
| **Acanthurids** | Jurisdiction | 1 | 10895 | 2.64 | | 0.105 | 1 | 63891 | | 11.13 | **0.001** |
|  | Depth | 1 | 8739 | 2.12 | | 0.147 | 1 | 19166 | | 3.34 | 0.069 |
|  | JU x DE | 1 | 18269 | 4.42 | | **0.036** | 1 | 174639 | | 30.42 | **<0.001** |
|  | Error | 394 | 4130 |  | |  | 355 | 5740 | |  |  |