Table 3. Results of two-way and one-way repeated measures ANOVA procedures testing the variations of coral cover between depths and year at the different natural reserve reef sites in Puerto Rico.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Site** | **Factor** | **Type III SS** | **df** | **MS** | **F** | **p value** |
| **Vieques** | Depth | 0.03 | 1 | 0.03 | 4.18 | 0.11 |
|  | Year | 0.20 | 2 | 0.10 | 6.96 | 0.02 |
|  | Depth\*Year | 0.03 | 2 | 0.02 | 1.78 | 0.23 |
| **Derrumbadero** | Year | 0.88 | 9 | 0.10 | 7.99 | <0.0001 |
| **Guánica** | Year | 0.32 | 8 | 0.04 | 2.20 | 0.05 |
| **Cabo Rojo** | Depth | 0.08 | 1 | 0.08 | 23.75 | 0.01 |
|  | Year | 0.04 | 2 | 0.02 | 2.88 | 0.11 |
|  | Depth\*Year | 0.02 | 2 | 0.01 | 1.35 | 0.31 |
| **Mayagüez** | Depth | 4.08 | 2 | 2.04 | 17.03 | 0.00 |
|  | Year | 0.24 | 9 | 0.03 | 4.07 | 0.00 |
|  | Depth\*Year | 0.25 | 18 | 0.01 | 1.34 | 0.19 |
| **Rincón** | Depth | 0.01 | 1 | 0.01 | 0.97 | 0.38 |
|  | Year | 0.02 | 9 | 0.00 | 1.03 | 0.43 |
|  | Depth\*Year | 0.02 | 9 | 0.00 | 2.28 | 0.04 |
| **Desecheo** | Depth | 1.51 | 2 | 0.76 | 26.33 | <0.0001 |
|  | Year | 1.02 | 9 | 0.11 | 17.62 | <0.0001 |
|  | Depth\*Year | 0.62 | 18 | 0.04 | 4.75 | <0.0001 |
| **Mona** | Depth | 0.02 | 1 | 0.02 | 1.40 | 0.30 |
|  | Year | 0.31 | 3 | 0.10 | 55.66 | <0.0001 |
|  | Depth\*Year | 0.02 | 3 | 0.01 | 0.89 | 0.48 |