Table 6. Permutational Multivariate Analysis of Variance (PERMANOVA) procedures testing the variations of coral composition between years and depths.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Site** | **Factor** | **SS** | **df** | **MS** | **Pseudo-F** | **p value** |
| **Vieques** | Depth | 2127.6 | 1 | 2127.6 | 2.047 | 0.089 |
|  | Year | 8344.9 | 2 | 4172.5 | 4.014 | 0.002 |
|  | Depth\*Year | 3983.3 | 2 | 1991.6 | 1.916 | 0.051 |
| **Ponce** | Year | 20331 | 9 | 2259 | 3.156 | 0.001 |
| **Guánica** | Year | 9189.11 | 8 | 1148.6 | 0.649 | 0.967 |
| **Cabo Rojo** | Depth | 2246.6 | 1 | 2246.6 | 1.665 | 0.163 |
|  | Year | 4576.1 | 2 | 2288 | 1.696 | 0.11 |
|  | Depth\*Year | 3679.9 | 2 | 57010 | 1.364 | 0.24 |
| **Mayagüez** | Depth | 1.14E+05 | 2 | 866.61 | 65.686 | 0.001 |
|  | Year | 7799.5 | 9 | 600.99 | 0.999 | 0.453 |
|  | Depth\*Year | 10818 | 18 | 867.92 | 0.692 | 0.98 |
| **Rincón** | Depth | 7940.8 | 9 | 882.32 | 0.623 | 0.975 |
|  | Year | 46299 | 1 | 46299 | 32.667 | 0.001 |
|  | Depth\*Year | 4514.5 | 9 | 501.61 | 0.354 | 1 |
| **Desecheo** | Depth | 87185 | 2 | 43593 | 29.496 | 0.001 |
|  | Year | 35250 | 9 | 3916.7 | 2.65 | 0.001 |
|  | Depth\*Year | 25523 | 18 | 1418 | 0.959 | 0.612 |
| **Mona** | Depth | 6247.1 | 1 | 6247.1 | 3.416 | 0.007 |
|  | Year | 14760 | 3 | 4920 | 2.69 | 0.004 |
|  | Depth\*Year | 5582.1 | 3 | 1860.7 | 1.102 | 0.449 |