|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Factor** | **Genera** | **Test** | **DF** | **SS** | **MS** | **F** | ***p*-value** | **Post-hoc (Student-Newman-Keuls Method)** |
| **ETS** | *Nephthea* spp. | One-Way-ANOVA | 7 | 1209.8 | 172.8 | 3.97 | 0.005 | PN vs. AB,P, UJ |
| *Sarcophyton* spp. | One-Way-ANOVA | 7 | 1309.4 | 187.1 | 3.71 | 0.009 | PN vs. AB,UJ,AB |
| PS vs. AB |
| **Photosynthetic yield** | *Sarcophyton* spp. | One-Way-ANOVA | 7 | 142577.3 | 20368.2 | 10.88 | <0.001 | R vs. AB |
| B vs. AB,R,UJ |
| PN vs. AB,R,UJ |
| P vs. AB,R,UJ |
| C vs. AB,R,UJ |
| PS vs. AB,R,UJ |
| UJ vs. AB |
| *Nephthea* spp. | Kruskal-Wallis Test |  |  |  |  | <0.001 | R vs. UJ,AB |
| PS vs. UJ,AB |
| P vs. UJ,AB |
| PN vs. UJ,AB,R |
| C vs. UJ,AB |
| **Benthic cover** | *Sarcophyton* spp. | Kruskal-Wallis Test |  |  |  |  | 0.004 | P vs. PN,PS,B,UJ |
| R vs. PN, PS,B,UJ |
| *Nephthea* spp. | Kruskal-Wallis Test |  |  |  |  | 0.008 | UJ vs. C,B,P,PS,PN |
| AB vs. C,B,P,PS,PN |
| R vs. C,B,P,PS,PN |
| Total soft coral | One-Way-ANOVA | 7 | 1472 | 210.3 | 7.16 | <0.001 | P vs. B,PN,C,PS,UJ,AB |
| R vs. B,PN,C,PS,UJ,AB |
| total hard coral | One-Way-ANOVA |   |   |   |   | <0.001 |   |
| Macroalage | One-Way-ANOVA |   |  |  |  | 0.011 | - |