Supplementary Table S3

Pairwise PERMANOVA results comparing meiofauna community and nematoda assemblages structure in sandy and muddy environments in Cotijuba Island.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Meiofauna | | | | | Nematoda | | |
| Groups | | t | P (perm) |  |  | t | P (perm) |  | |
| Compared | |  |  |  |  |  |  |  | |
| Sandy A x Sandy B | | 3.926 | 0.001\* |  |  | 0.989 | 0.431 |  | |
| Sandy A x Muddy A | | 4.510 | 0.001\* |  |  | 7.440 | 0.001\* |  | |
| Sandy A x Muddy B | | 4.584 | 0.001\* |  |  | 5.200 | 0.001\* |  | |
| Sandy B x Muddy A | | 7.043 | 0.001\* |  |  | 8.916 | 0.001\* |  | |
| Sandy B x Muddy B | | 4.642 | 0.001\* |  |  | 6.679 | 0.001\* |  | |
| Sandy A x Muddy B | | 3.459 | 0.001\* |  |  | 4.197 | 0.001\* |  | |
| **Sandy A** | | | | | | | | | |
| P1 x P2 | | 2.341 | 0.001\* |  |  | 1.117 | 0.293 |  | |
| P1 x P3 | | 2.137 | 0.003\* |  |  | 1.191 | 0.221 |  | |
| P2 x P3 | | 2.431 | 0.001\* |  |  | 1.386 | 0.101 |  | |
| 0-2 x 2-4 | | 1.119 | 0.325 |  |  | 0.895 | 0.611 |  | |
| 0-2 x 4-6 | | 1.443 | 0.112 |  |  | 0.587 | 0.922 |  | |
| 0-2 x 6-8 | | 1.764 | 0.042\* |  |  | 0.866 | 0.714 |  | |
| 0-2 x 8-10 | | 1.309 | 0.202 |  |  | 0.635 | 0.934 |  | |
| 2-4 x 4-6 | | 0.573 | 0.825 |  |  | 1.145 | 0.301 |  | |
| 2-4 x 6-8 | | 0.916 | 0.508 |  |  | 0.965 | 0.459 |  | |
| 2-4 x 8-10 | | 0.725 | 0.722 |  |  | 0.557 | 0.899 |  | |
| 4-6 x 6-8 | | 1.103 | 0.356 |  |  | 0.834 | 0.689 |  | |
| 4-6 x 8-10 | | 0.914 | 0.511 |  |  | 0.521 | 0.928 |  | |
| 6-8 x 8-10 | | 0.795 | 0.623 |  |  | 0.671 | 0.858 |  | |
| **Sandy B** | | | | | | | | | |
| P1 x P2 | | 1.282 | 0.227 |  |  | 1.064 | 0.358 |  | |
| P1 x P3 | | 2.641 | 0.001\* |  |  | 0.719 | 0.767 |  | |
| P2 x P3 | | 2.422 | 0.001\* |  |  | 0.808 | 0.723 |  | |
| 0-2 x 2-4 | | 1.393 | 0.147 |  |  | 1.029 | 0.394 |  | |
| 0-2 x 4-6 | | 1.982 | 0.017\* |  |  | 1.029 | 0.393 |  | |
| 0-2 x 6-8 | | 0.822 | 0.526 |  |  | 1.252 | 0.175 |  | |
| 0-2 x 8-10 | | 2.092 | 0.008\* |  |  | 0.673 | 0.803 |  | |
| 2-4 x 4-6 | | 0.767 | 0.681 |  |  | Denominator is 0 | --- |  | |
| 2-4 x 6-8 | | 1.663 | 0.064 |  |  | 1.230 | 0.290 |  | |
| 2-4 x 8-10 | | 2.646 | 0.001\* |  |  | 1.048 | 0.541 |  | |
| 4-6 x 6-8 | | 2.592 | 0.001\* |  |  | 1.230 | 0.270 |  | |
| 4-6 x 8-10 | | 3.595 | 0.001\* |  |  | 1.048 | 0.597 |  | |
| 6-8 x 8-10 | | 1.930 | 0.041\* |  |  | 0.783 | 0.658 |  | |
| **Muddy A** | | | | | | | | | |
| P1 x P2 | | 1.286 | 0.195 |  |  | 0.950 | 0.429 |  | |
| P1 x P3 | | 0.681 | 0.695 |  |  | 0.885 | 0.532 |  | |
| P2 x P3 | | 1.868 | 0.016\* |  |  | 0.980 | 0.477 |  | |
| 0-2 x 2-4 | | 5.618 | 0.001\* |  |  | 2.298 | 0.006\* |  | |
| 0-2 x 4-6 | | 5.058 | 0.001\* |  |  | 4.498 | 0.001\* |  | |
| 0-2 x 6-8 | | 6.349 | 0.001\* |  |  | 6.626 | 0.001\* |  | |
| 0-2 x 8-10 | | 5.864 | 0.001\* |  |  | 4.483 | 0.001\* |  | |
| 2-4 x 4-6 | | 2.087 | 0.014\* |  |  | 2.170 | 0.009\* |  | |
| 2-4 x 6-8 | | 2.654 | 0.005\* |  |  | 3.078 | 0.001\* |  | |
| 2-4 x 8-10 | | 1.753 | 0.035\* |  |  | 2.021 | 0.002\* |  | |
| 4-6 x 6-8 | | 1.019 | 0.392 |  |  | 1.150 | 0.276 |  | |
| 4-6 x 8-10 | | 0.953 | 0.431 |  |  | 0.798 | 0.590 |  | |
| 6-8 x 8-10 | | 0.886 | 0.511 |  |  | 1.813 | 0.029\* |  | |
| **Muddy B** | | | | | | | | | |
| P1 x P2 | | 1.074 | 0.319 |  |  | 1.231 | 0.181 |  | |
| P1 x P3 | | 1.268 | 0.176 |  |  | 1.724 | 0.013\* |  | |
| P2 x P3 | | 1.543 | 0.071 |  |  | 1.235 | 0.183 |  | |
| 0-2 x 2-4 | | 4.839 | 0.001\* |  |  | 2.828 | 0.001\* |  | |
| 0-2 x 4-6 | | 6.803 | 0.001\* |  |  | 6.267 | 0.001\* |  | |
| 0-2 x 6-8 | | 5.233 | 0.002\* |  |  | 6.296 | 0.001\* |  | |
| 0-2 x 8-10 | | 9.227 | 0.001\* |  |  | 8.961 | 0.001\* |  | |
| 2-4 x 4-6 | | 4.266 | 0.002\* |  |  | 3.411 | 0.001\* |  | |
| 2-4 x 6-8 | | 3.464 | 0.002\* |  |  | 3.638 | 0.003\* |  | |
| 2-4 x 8-10 | | 7.634 | 0.001\* |  |  | 4.736 | 0.001\* |  | |
| 4-6 x 6-8 | | 0.983 | 0.370 |  |  | 0.482 | 0.906 |  | |
| 4-6 x 8-10 | | 3.402 | 0.006\* |  |  | 0.947 | 0.449 |  | |
| 6-8 x 8-10 | | 1.357 | 0.164 |  |  | 0.830 | 0.629 |  | |

\*significant difference (p<0.05), --- zero, P1: upper mid-littoral, P2: middle mid-littoral, P3: lower mid-littoral.