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| **Supplementary Table 5.**PERMANOVA analysis of coral biodiversity (H’c, 57 species) in response to environmental co-variates, plus distance and locality terms.  |
| **Source** | **d.f.** |  **SS** |  **MS** |  **Pseudo-F** |  **P (perm)** |
| Rugosity Index | 1 | 136.27 | 136.27 |  3.171 |  0.0949 |
| Diadema Density | 1 | 12.818 | 12.818 |  0.26661 |  0.7202 |
| Coral Recruitment Density | 1 | 64.249 | 64.249 |  1.4094 |  0.2627 |
| % Diseases  | 1 | 990.59 | 990.59 |  17.797 |  **0.0002** |
| S | 1 |  4201 |  4201 |  84.664 |  **0.0001** |
| H'c | 1 | 123.58 | 123.58 |  2.1067 |  **0.0429** |
| J'c | 1 | 72.658 | 72.658 |  1.2804 |  0.2713 |
| AvTD | 1 |  249.4 |  249.4 |  4.562 |  **0.0276** |
| VarTD | 1 | 54.943 | 54.943 |  0.96743 |  0.361 |
| # of Visitors | 1 | 21.347 | 21.347 |  0.77675 |  0.5201 |
| Distance | 1 | 30.928 | 30.928 |  0.68365 |  0.5231 |
| Locality (Distance) | 5 | 202.45 | 40.489 |  0.63309 |  0.7437 |
| **Res** | 23 |  1471 | 63.955 |  -  | -  |
| **Total** | 39 | 7631.2 | - | - | - |
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| Pseudo F statistics were calculated for each term using direct analogues to univariate expectations of mean squares. A sequential Type I sums of squares was used. P-values were obtained using 9999 permutations under a reduced model, with each term contributing either a fixed or random component to the overall model.  |

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