Supplementary Materials:Environmental Variation and How its Spatial Structure Influences the Cross-Shelf Distribution of High-Latitude Coral Communities in South Africa

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**Electronic Supplementary Material 7**

**Table S1.** Partial distance-based linear model marginal tests for correlations between the four environmental variables, and the spatial variables fitted as a group, with reef community structure (Model 3).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Variable** | **SS(Trace)** | **FPseudo** | **P(perm)** | **Proportion of variance** |
| Group(Spatial variables) | 2.99E+05 | 4.6025 | **0.0001** | 0.50159 |
| Depth | 26422 | 19.364 | **0.0001** | 0.044376 |
| Distance to shelf edge | 10190 | 7.2612 | **0.0001** | 0.017115 |
| Distance to high tide | 19859 | 14.388 | **0.0001** | 0.033353 |
| Canyon effect | 10399 | 7.4126 | **0.0001** | 0.017466 |

Significant *P*-values are indicated in bold (α = 0.01). SS(Trace) = Sums of squares of trace statistic. *F*Pseudo = Pseudo *F*-statistic. *P*(perm) = Probability value by permutation.