

**TABLE S5** | Results of the PERMANOVA testing the effects of depth, location, and their interaction on reef fish community structure, based on Bray-Curtis dissimilarities from Hellinger-transformed abundance data. Significant p-values ( $p < 0.05$ ) are shown in bold.

Factor	Df	Sum of Squares	R <sup>2</sup>	F	p-value
Location	1	4.9119	0.18413	36.0728	0.001
Depth	2	8.9972	0.33728	33.0375	0.001
Location*Depth	2	2.1456	0.08043	7.8785	0.001
Residuals	78	10.6210	0.39815		
Total	83	26.6758	1.00000		



This is an open access article under the terms of the Creative Commons Attribution License, which permits use, distribution and reproduction in any medium, provided the original work is properly cited.

Distributed under Creative Commons CC-BY 4.0

© 2026 The Authors.  
Diversity and Distributions Published by SBI



Official Journal of the  
Sociedade Brasileira de Ictiologia

#### HOW TO CITE THIS ARTICLE

- Marx J, Pimentel CR, Rocha LA, Pinheiro HT. Functional diversity and ecological patterns of reef fish assemblages across depth gradients in oceanic islands of the Brazilian Province. *Neotrop Ichthyol.* 2026; 24(1):e250035. <https://doi.org/10.1590/1982-0224-2025-0035>