

TABLE S3.1 | Output from Principal Component Analysis (PCA) with standardized environmental data. Variable loadings in bold contributed to PC1 and PC2.

	PC1	PC2	PC3	PC4	PC5
Eigenvalues	2.21	1.20	0.77	0.61	0.20
Proportion explained	0.44	0.24	0.15	0.12	0.04
Cumulative Proportion	0.44	0.68	0.84	0.96	1.00
Variable					
Altitude	-1.13	0.32	-0.75	0.80	-0.19
Width	1.27	-0.76	0.18	0.45	-0.46
Depth	1.03	0.89	0.40	0.73	0.29
Velocity	1.08	-0.53	-1.04	-0.01	0.31
PHI	-0.83	-1.19	0.45	0.48	0.32

FIGURE S3.2 |

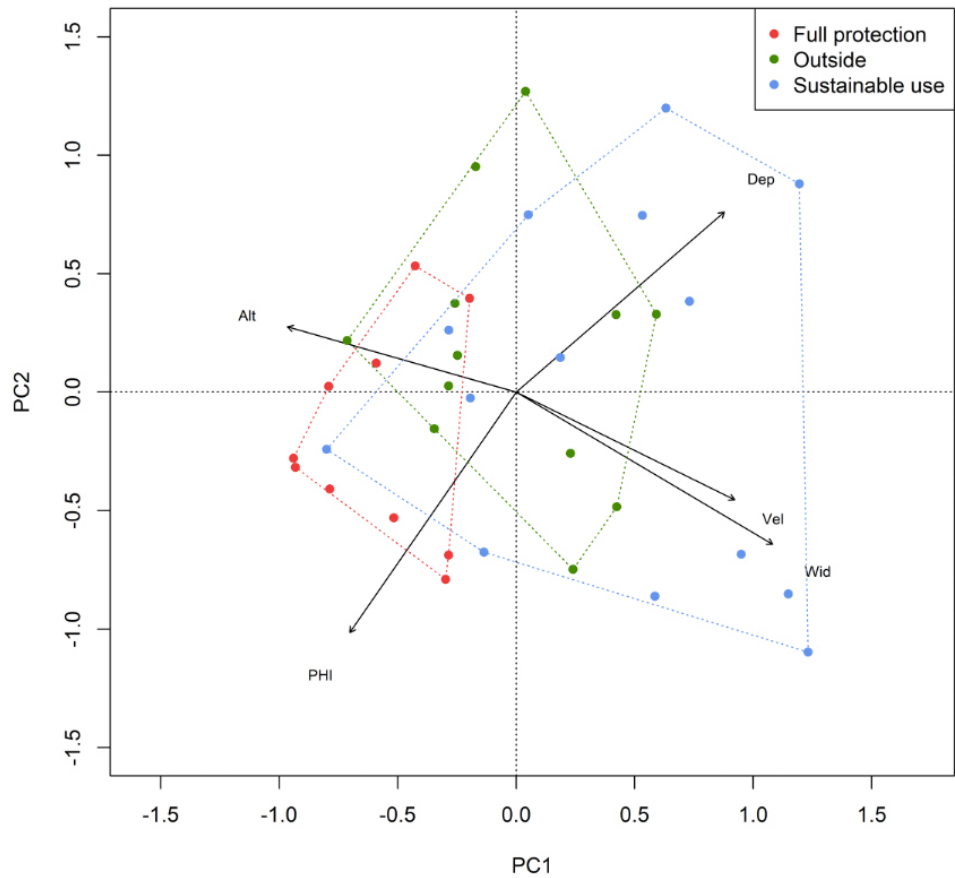


TABLE S3.3 | Principal Component Axis (PC1 and PC2) statistics by area type.

Area	Statistic	PC1	PC2
FP	mean	-0.158	-0.532
	sd	0.076	0.123
SU	mean	0.114	-0.001
	sd	0.172	0.205
Out	mean	-0.002	0.046
	sd	0.108	0.155



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Official Journal of the
Sociedade Brasileira de Ictiologia

HOW TO CITE THIS ARTICLE

- **Cetra M, Mattox GMT, Romero PB, Escobar SH.** Protected areas and compositional diversity of fish from Serranias Costeiras of the Ribeira de Iguape River basin, Southeast Brazil. *Neotrop Ichthyol.* 2022; 20(2):e210130. <https://doi.org/10.1590/1982-0224-2021-0130>