TABLE S4 | Results of the generalized linear models (GLMs) evaluating the effects of channelization (C = channelized and UC = unchannelized) and environmental variables on fish community attributes, considering both streams (CC = Coati Chico stream; A = Amambay stream). Estimated coefficients (± standard error), z-values, and statistical significance (p-values) are presented. Models were fitted using appropriate error distributions for each response variable, and model selection was based on the Akaike Information Criterion (AIC). When the categorical variable was included in the model, the intercept corresponds to the reference level: Amambay stream under channelized condition. All other coefficients represent effects in relation to this baseline.

Attribute	Variables	Estimate	SE	t-valor	p-valor
Abundance	Intercept	1291.05	246.49	5.24	**<0.001**
R^2_{adj} = 0.89	Stream-CC	-769.29	155.16	4.96	**<0.001**
$F_{(9, 17)}$ = 24.83	Effect-UC	-182.01	331.81	-0.55	0.590
p < 0.001	Temperature	-408.77	95.71	-4.27	**<0.001**
	Orp	209.97	88.93	2.36	**0.030**
	Width	456.73	103.31	4.42	**<0.001**
	Cobbles	-360.77	100.41	-3.59	**0.002**
	Gravel	311.02	89.85	3.46	**0.002**
	Artificial substrate	719.44	125.81	5.72	**<0.001**
	Shading	399.23	87.52	4.56	**<0.001**
Biomass	Intercept	1765.50	307.10	5.75	**<0.001**
R^2_{adj} = 0.48	Stream-CC	-1057.30	415.50	-2.55	**0.018**
$F_{(3, 23)}$ = 9.02	Gravel	622.4	208.10	2.99	**<0.001**
p < 0.001	Shading	838.2	210.90	3.97	**<0.001**
Richness	Intercept	3.81	1.06	2.49	**0.020**
R^2_{adj} = 0.77	Stream-CC	-1.98	0.44	-4.47	**<0.001**
$F_{(6, 20)}$ = 15.68	Effect-UC	5.68	0.91	6.23	**<0.001**
p < 0.001	Temperature	-0.29	0.11	-2.56	**0.02**
	Boulders	-0.04	0.00	-4.45	**<0.001**
	Artificial substrate	0.15	0.05	3.00	**0.007**
	Macrophyte	0.04	0.01	5.00	**<0.001**
Index ABC	Intercept	-11.99	2.58	-4.65	**<0.001**
R^2_{adj} = 0.53	Effect-UC	12.98	3.37	3.85	**<0.001**
$F_{(4, 22)}$ = 8,28	Temperature	-3.57	1.32	-2.714	**0.01**
p < 0.001	pH	3.98	1.42	2.81	**0.01**
	Shading	-5.44	1.51	-3.61	**0.001**

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