SUPPLEMENTARY MATERIAL S12

TABLE S12 | Table with the generalized linear models for estimating population trends for the Middle Paraná River (EBIPES). Coefficient of the variable Year is the estimate for the best model. If the variable Year was not included in the best model, the estimate of the second best model including Year is given. The column Variables gives the variables included in the best model (Y: year, SI: Seasonality Index, HL: Hydrometric level, La: Latitude). Akaike's weight (W) are given for the best model and for the variable Year across all models. W can be interpreted as the probability of the model being true, given the data. Models with W for Year higher than 0.7 are highlighted in bold.

Species	Coefficient of year	Variables	W best model	W year
Prochilodus lineatus	-0.030	Y + HL	0.420	**0.919**
Pseudoplatystoma corruscans	0.039	Y + La	0.302	0.685
Pseudoplatystoma reticulatum	0.011	HL + La	0.295	0.343
Megaleporinus spp.	0.020	Y + SI + HL + La	0.401	0.655
Luciopimelodus pati	0.016	SI + HL + La	0.578	0.326
Salminus brasiliensis	-0.050	Y + SI + HL + La	0.514	**0.853**
Hoplias spp.	-0.014	SI + HL + La	0.574	0.401
Odontesthes bonariensis	0.033	SI + HL + La	0.576	0.335
Pterodoras granulosus	0.027	SI + HL + La	0.572	0.352
Oxydoras kneri	0.065	Y + SI + HL + La	0.796	**0.964**
Piaractus mesopotamicus	0.263	Y + HL + La	0.252	**0.767**
Ageneiosus militaris	0.024	SI + HL + La	0.319	0.550
Ageneiosus inermis	0.021	SI + HL + La	0.319	0.355
Rhamdia quelen	-0.138	Y + SI + HL + La	0.319	**0.821**
Pimelodus maculatus	-0.099	Y + SI + HL + La	0.790	**0.997**
Pimelodus albicans	-0.219	Y + SI	0.376	**0.999**
Sorubim lima	0.037	Y + Laç	0.251	0.625
Brycon orbignyanus	0.024	SI + HL	0.350	0.379
Potamotrygon spp.	-0.040	Y + SI + HL + La	0.275	**0.762**
Cyprinus carpio	0.063	SI + La	0.413	0.361

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