

S2. Contribution of fish species to axes 1 and 2 derived from Canonical Correspondence Analysis (CCA).

Species abbreviations used in fig. 2 are described.

Species	Abbreviation	CCA1 (Seasonal variation)	CA1
<i>Acestrorhynchus heterolepis</i>	Ace.min	-0.794	-0.064
<i>Aequidens diadema</i>	Aeq.dia	0.836	-0.541
<i>Brachyhypopomus occidentalis</i>	Bra.occ	0.491	0.339
<i>Cichla orinocensis</i>	Cic.ori	0.438	-0.319
<i>Copella metade</i>	Cop.met	0.973	0.629
<i>Crenicichla</i> sp.	Cre.sp	0.484	-0.094
<i>Curimatopsis evelynae</i>	Cur.eve	-0.298	0.480
<i>Cyphocharax spilurus</i>	Cyp.spi	-0.543	-0.097
Doradidae sp.	Dor.sp	0.335	0.780
<i>Gnathocharax steindachneri</i>	Gna.ste	0.802	-1.089
<i>Hemigrammus analis</i>	Hem.ana	-0.346	0.105
<i>Hemigrammus bellottii</i>	Hem.bel	-0.039	0.648
<i>Hemigrammus barrigonae</i>	Hem.bar	-0.331	0.193
<i>Hemigrammus microstomus</i>	Hem.mic	-0.329	0.236
<i>Hemigrammus rhodostomus</i>	Hem.rho	-0.634	-0.059
<i>Hemigrammus</i> sp2.	Hem.sp2	0.410	1.254
<i>Hemigrammus stictus</i>	Hem.sti	-0.475	0.120
<i>Hemigrammus vorderwinkleri</i>	Hem.vor	0.721	-0.843
<i>Heterocharax macrolepis</i>	Het.mac	0.328	0.264
<i>Hoplias malabaricus</i>	Hop.mal	0.181	-0.279
<i>Hoplerythrinus unitaeniatus</i>	Hop.uni	0.751	-1.266
<i>Hyphessobrycon metade</i>	Hyp.met	-0.613	0.081
<i>Iguanodectes spilurus</i>	Igu.spi	-0.626	-0.267
<i>Megalampodus sweglesi</i>	Meg.swe	0.588	1.028
<i>Metynnis hypsauchen</i>	Met.hyp	0.488	-0.732
<i>Moenkhausia copei</i>	Moe.cop	-0.561	0.058
<i>Pyrrhulina lugubris</i>	Pyr.lug	0.128	-0.155
<i>Pygopristis denticulata</i>	Pyg.den	0.346	-0.250
<i>Rhamdia</i> sp.	Rha.sp	1.066	-0.885
<i>Serrabrycon magoi</i>	Ser.mag	-0.722	-0.055