

**SUPPLEMENTARY MATERIAL TABLE S1** | Ecomorphological attributes, their abbreviation and how they were calculated. The calculation followed Oliveira *et al.* (2010).

Attributes	Abreviation	Calculation
Compression index	CI	$\frac{\text{maximum body height}}{\text{maximum body width}}$
Depression index	DI	$\frac{\text{body midline height}}{\text{maximum body height}}$
Relative length of caudal peduncle	RLPd	$\frac{\text{caudal peduncle length}}{\text{standard length}}$
Relative height of caudal peduncle	RHPd	$\frac{\text{caudal peduncle height}}{\text{maximum body height}}$
Relative width of caudal peduncle	RWPd	$\frac{\text{caudal peduncle width}}{\text{maximum body width}}$
Relative length of head	RLHd	$\frac{\text{head length}}{\text{standard length}}$
Relative height of head	RHHd	$\frac{\text{head height}}{\text{maximum body height}}$
Relative width of head	RWHd	$\frac{\text{head width}}{\text{maximum body width}}$
Relative width of mouth	RWM	$\frac{\text{mouth width}}{\text{maximum body width}}$
Relative height of mouth	RHM	$\frac{\text{mouth height}}{\text{maximum body height}}$
Protrusion index	PI	$\frac{\text{snout length with the mouth open}}{\text{snout length with the mouth closed}}$
Eye position	EP	$\frac{\text{eye height}}{\text{head height}}$
Relative area of eye	RAE	$\frac{\text{eye area}}{\text{standard length}^2}$
Relative area of dorsal fin	RAD	$\frac{\text{dorsal fin area}}{\text{standard length}^2}$
Relative area of caudal fin	RAC	$\frac{\text{caudal fin area}}{\text{standard length}}$
Relative aspect of caudal fin	ARC	$\frac{\text{caudal fin height}^2}{\text{caudal fin area}}$
Relative area of anal fin	RAA	$\frac{\text{anal fin area}}{\text{standard length}^2}$



TABLE S1 | (Continued)



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Attributes	Abbreviation	Calculation
Relative aspect of anal fin	ARA	$\frac{\text{anal fin length}^2}{\text{anal fin area}}$
Relative area of pectoral fin	RAPt	$\frac{\text{pectoral fin area}}{\text{standard length}^2}$
Relative aspect of pectoral fin	ARPt	$\frac{\text{pectoral fin length}^2}{\text{pectoral fin area}}$
Relative area of pelvic fin	RAPv	$\frac{\text{pelvic fin area}}{\text{standard length}^2}$
Relative aspect of pelvic fin	ARPv	$\frac{\text{pelvic fin length}^2}{\text{pelvic fin area}}$