

## SUPPLEMENTARY MATERIAL S1

**TABLE S1** | Fish species included in this study, frequency of occurrence (Occur.), and total abundances (Abund.) for each stream group. Classification follows Reis *et al.* (2003); except Serrasalminae follows Calcagnotto *et al.* (2005). \*= Exotic species.

TAXON	codes	Forest		Recent deforestation		Old deforestation		
		Occur.	Abund.	Occur.	Abund.	Occur.	Abund.	
<b>CHARACIFORMES</b>								
<b>Parodontidae</b>								
	<i>Parodon nasus</i>	parnas	-	-	2	3	1	1
<b>Curimatidae</b>								
	<i>Curimatopsis macrolepis</i>	curmac	1	6	-	-	-	-
	<i>Cyphocharax plumbeus</i>	cypplu	-	-	1	1	-	-
	<i>Cyphocharax spilurospis</i>	cypspi	-	-	11	37	3	3
	<i>Steindachnerina cf. dobula</i>	stedob	-	-	1	4	-	-
	<i>Steindachnerina fasciata</i>	stefas	-	-	7	38	7	19
	<i>Steindachnerina guentheri</i>	stegue	-	-	1	3	-	-
<b>Prochilodontidae</b>								
	<i>Prochilodus nigricans</i>	pronig	-	-	1	1	-	-
<b>Anostomidae</b>								
	<i>Anostomus ternetzi</i>	anoter	-	-	2	5	-	-
	<i>Leporinus friderici</i>	lepfri	3	3	9	27	6	16
<b>Crenuchidae</b>								
	<i>Characidium aff. gomesi</i>	chagom	-	-	-	-	2	7
	<i>Characidium aff. zebra</i>	chazeb	10	100	25	432	19	230
	<i>Characidium sp.</i>	chasp	-	-	3	8	-	-
	<i>Elachocharax pulcher</i>	elapul	7	77	2	2	-	-
	<i>Microcharacidium aff. weitzmani</i>	micwei	3	9	2	2	4	27
	<i>Melanocharacidium dispilomma</i>	meldis	-	-	1	1	-	-
	<i>Melanocharacidium pectorale</i>	melpec	1	1	-	-	-	-
	<i>Microcharacidium sp.</i>	micsp	3	50	-	-	-	-
<b>Hemiodontidae</b>								
	<i>Hemiodus unimaculatus</i>	hemuni	-	-	2	2	-	-
<b>Gasteropelecidae</b>								
	<i>Carnegiella strigata</i>	carstr	4	27	2	11	1	2
<b>Characidae</b>								
	<i>Amazonspinther dalmata</i>	amadal	-	-	-	-	1	7
	<i>Astyanax cf. bimaculatus</i>	astbim	1	1	8	62	10	45
	<i>Astyanax cf. maximus</i>	astmax	3	11	-	-	4	7
	<i>Astyanax maculisquamis</i>	astmac	-	-	1	1	2	42
	<i>Bario steindachneri</i>	barste	2	3	-	-	-	-
	<i>Brachychalcinus copei</i>	bracop	4	10	17	105	13	32
	<i>Bryconella pallidifrons</i>	brypall	8	695	-	-	-	-
	<i>Bryconops caudomaculatus</i>	brycau	6	20	23	429	21	463
	<i>Bryconops piracolina</i>	brypir	-	-	1	23	-	-
	<i>'Cheirodon' troemneri</i>	chetro	-	-	2	62	-	-
	<i>Creagrutus petilus</i>	crepet	8	39	21	314	19	668
	<i>Hemigrammus aff. ocellifer</i>	hemoce	4	20	4	14	3	28
	<i>Hemigrammus bellottii</i>	hembel	3	143	2	9	-	-
	<i>Hemigrammus melanochromis</i>	hemmel	5	364	2	187	4	867
	<i>Hemigrammus neptunus</i>	hemnep	1	4	2	55	1	1
	<i>Hemigrammus sp.</i>	hemsp	1	14	-	-	-	-
	<i>Hyphessobrycon aff. heterorhabdus</i>	hyphet	8	103	1	31	2	10
	<i>Hyphessobrycon agulha</i>	hypagu	7	823	4	209	4	99



TABLE S1 | (Continued)

TAXON	codes	Forest		Recent deforestation		Old deforestation	
		Occur.	Abund.	Occur.	Abund.	Occur.	Abund.
<i>Hyphessobrycon bentosi</i>	hypben	-	-	5	69	3	109
<i>Hyphessobrycon copelandi</i>	hypcop	4	144	3	7	-	-
<i>Jupiaba citrina</i>	jupcit	1	1	7	66	11	206
<i>Jupiaba poranga</i>	juppor	4	9	-	-	-	-
<i>Jupiaba zonata</i>	jupzon	-	-	3	55	-	-
<i>Knodus cf. smithi</i>	knosmi	4	61	18	340	13	426
<i>Knodus heteresthes</i>	knohet	2	583	4	99	6	54
<i>Microchemobrycon guaporensis</i>	micgua	4	34	8	127	2	5
<i>Moenkhausia aff. gracilima</i>	moegra	-	-	1	1	-	-
<i>Moenkhausia cf. bonita</i>	moebon	1	2	4	230	2	107
<i>Moenkhausia collettii</i>	moecol	7	176	21	1489	14	259
<i>Moenkhausia cotinho</i>	moecot	3	26	11	187	2	46
<i>Moenkhausia grandisquamis</i>	moegran	4	7	1	2	2	2
<i>Moenkhausia mikia</i>	moemik	3	31	6	67	2	7
<i>Moenkhausia oligolepis</i>	moeoli	8	100	25	144	16	86
<i>Moenkhausia pankilopteryx</i>	moepan	1	1	-	-	2	18
<i>Moenkhausia sthenosthoma</i>	moesth	1	4	5	14	1	23
<i>Odontostilbe fugitiva</i>	odofug	-	-	5	288	1	19
<i>Phenacogaster retropinnus</i>	pheret	7	32	21	242	14	112
<i>Serrapinnus microdon</i>	sermic	2	9	17	1114	11	778
<i>Serrapinnus aff. notomelas</i>	sernot	1	1	20	2470	13	1171
<i>Tetragonopterus argenteus</i>	tetarg	-	-	1	2	-	-
<i>Triporthus angulatus</i>	triang	-	-	2	2	-	-
<i>Tyttocharax madeirae</i>	tytmdad	-	-	2	22	2	10
<b>Serrasalminidae</b>							
<i>Myleus sp.</i>	mylsp	-	-	2	5	3	7
<i>Serrasalmus rhombeus</i>	serrrho	-	-	1	1	-	-
<b>Acestrorhynchidae</b>							
<i>Acestrorhynchus falcatus</i>	acefal	1	1	1	1	1	1
<b>Erythrinidae</b>							
<i>Erythrinus erythrinus</i>	eryery	6	9	-	-	2	2
<i>Hoplerythrinus unitaeniatus</i>	hopuni	3	3	-	-	-	-
<i>Hoplias malabaricus</i>	hopmal	12	46	14	27	10	15
<b>Lebiasinidae</b>							
<i>Nannostomus trifasciatus</i>	nantri	-	-	-	-	1	1
<i>Pyrrhulina cf. australis</i>	pyraus	15	156	5	27	4	10
<i>Pyrrhulina cf. brevis</i>	pyrbre	2	4	3	17	4	44
<i>Pyrrhulina cf. zigzag</i>	pyrzig	-	-	1	9	-	-
<b>SILURIFORMES</b>							
<b>Cetopsidae</b>							
<i>Denticetopsis seducta</i>	densed	1	1	-	-	2	3
<i>Helogenes gouldingi</i>	helgou	2	8	3	4	4	10
<b>Aspredinidae</b>							
<i>Pseudobunocephalus amazonicus</i>	pseama	7	33	1	4	-	-
<b>Trichomycteridae</b>							
<i>Ituglanis amazonicus</i>	ituama	10	92	6	10	4	10
<i>Miuroglanis platycephalus</i>	miupla	-	-	1	1	-	-
<i>Paracanthopoma sp.</i>	parsp	-	-	2	3	4	16
<b>Callichthyidae</b>							
<i>Corydoras acutus</i>	coracu	2	3	2	2	-	-
<i>Corydoras aff. ambiacus</i>	coramb	-	-	1	3	-	-



TABLE S1 | (Continued)

TAXON	codes	Forest		Recent deforestation		Old deforestation	
		Occur.	Abund.	Occur.	Abund.	Occur.	Abund.
<i>Corydoras cf. bondi</i>	corbon	-	-	-	-	1	1
<i>Corydoras cf. melanistius</i>	cormel	1	55	-	-	-	-
<i>Corydoras elegans</i>	corele	1	1	3	4	1	2
<i>Corydoras stenocephalus</i>	corste	2	5	-	-	-	-
<i>Corydoras trilineatus</i>	cortri	8	52	11	24	3	6
<i>Hoplosternum littorale</i>	hoplit	1	1	2	4	2	2
<i>Megalechis picta</i>	megpic	6	49	-	-	-	-
<b>Loricariidae</b>							
<i>Aphanotorulus emarginatus</i>	squema	-	-	3	12	4	10
<i>Ancistrus lithurgicus</i>	anclit	6	26	12	117	8	147
<i>Farlowella cf. oxyrryncha</i>	faroxy	2	3	12	64	8	53
<i>Hypostomus pyrineusi</i>	hyppir	-	-	9	21	7	13
<i>Hypostomus sp.</i>	hypsp	-	-	-	-	1	1
<i>Lasiancistrus schomburgkii</i>	lassch	4	8	11	45	3	8
<i>Loricaria cataphracta</i>	lorcat	-	-	1	2	2	2
<i>Otocinclus hoppei</i>	otohop	-	-	7	91	3	28
<i>Parotocinclus aff. aripuanensis</i>	parari	-	-	2	15	4	9
<i>Rineloricaria heteroptera</i>	rinhet	4	5	23	99	13	60
<i>Rineloricaria sp.</i>	rinsp	1	1	2	4	1	1
<i>Spatuloricaria evansii</i>	spaeva	-	-	1	1	2	3
<b>Pseudopimelodidae</b>							
<i>Batrochoglanis cf. raninus</i>	batran	4	14	-	-	1	2
<i>Batrochoglanis villosus</i>	batvil	-	-	2	3	1	2
<i>Microglanis poecilus</i>	micpoe	1	1	-	-	-	-
<b>Heptapteridae</b>							
<i>Cetopsorhamdia sp. 1</i>	cetsp1	-	-	-	-	2	24
<i>Cetopsorhamdia sp. 2</i>	cetsp2	-	-	2	8	-	-
<i>Cetopsorhamdia sp. 3</i>	cetsp3	-	-	1	6	-	-
<i>Imparfinis cf. hasemani</i>	impphas	6	76	6	16	7	32
<i>Imparfinis stictonotus</i>	impsti	5	20	5	10	3	19
<i>Phenacorhamdia cf. boliviana</i>	phebol	-	-	3	4	-	-
<i>Phenacorhamdia sp.</i>	phesp	2	10	4	43	2	17
<i>Pimelodella cf. howesi</i>	pimhow	8	36	5	15	3	4
<i>Pimelodella sp.</i>	pimsp	-	-	4	6	4	5
<i>Rhamdia aff. quelen</i>	rhaque	-	-	3	5	1	1
<b>Doradidae</b>							
<i>Acanthodoras cataphractus</i>	acacat	4	19	-	-	-	-
<b>Auchenipteridae</b>							
<i>Duringlanis cf. perugiae</i>	cenper	-	-	-	-	1	1
<i>Trachelyopterus porosus</i>	parpor	1	1	1	1	1	3
<i>Tatia aulopygia</i>	tataul	1	1	1	1	-	-
<b>GYMNOTIFORMES</b>							
<b>Gymnotidae</b>							
<i>Gymnotus aff. arapaima</i>	gymara	1	1	3	11	5	14
<i>Gymnotus carapo</i>	gymcar	1	1	5	28	4	7
<i>Gymnotus coropinae</i>	gymcor	10	54	3	10	2	17
<b>Sternopygidae</b>							
<i>Eigenmannia trilineata</i>	eigtri	1	1	11	136	7	59
<i>Sternopygus macrurus</i>	stemac	-	-	12	37	12	60
<b>Rhamphichthyidae</b>							



TABLE S1 | (Continued)

TAXON	codes	Forest		Recent deforestation		Old deforestation	
		Occur.	Abund.	Occur.	Abund.	Occur.	Abund.
<i>Gymnorhamphichthys rondoni</i>	gymron	12	180	12	62	7	45
<b>Hypopomidae</b>							
<i>Brachyhypopomus</i> sp. 1	brasp1	-	-	2	2	-	-
<i>Brachyhypopomus</i> sp. 2	brasp2	8	15	-	-	-	-
<i>Brachyhypopomus</i> sp. 3	brasp3	5	26	-	-	-	-
<i>Hypopygus lepturus</i>	hyplep	7	47	8	50	2	31
<b>Apteronotidae</b>							
<i>Apteronotus albifrons</i>	aptalb	-	-	2	2	2	4
<i>Platyurosternarchus macrostoma</i>	plamac	-	-	1	2	-	-
<b>CYPRINODONTIFORMES</b>							
<b>Rivulidae</b>							
<i>Rivulus</i> sp.	rivsp	1	3	1	1	-	-
<b>BELONIFORMES</b>							
<b>Belonidae</b>							
<i>Potamorhaphis guianensis</i>	potgui	1	1	-	-	1	1
<b>PERCIFORMES</b>							
<b>Cichlidae</b>							
<i>Aequidens tetramerus</i>	aeqtet	8	17	19	66	12	116
<i>Apistogramma</i> cf. <i>resticulosa</i>	apires	12	453	6	66	5	44
<i>Cichlasoma amazonarum</i>	cicama	1	1	4	18	4	27
<i>Crenicichla johanna</i>	crejoh	-	-	1	1	1	1
<i>Crenicichla santosi</i>	cresan	6	8	18	110	16	45
<i>Geophagus megasema</i>	geomeg	-	-	1	1	-	-
<i>Satanoperca jurupari</i>	satjur	-	-	9	52	4	8
<i>Coptodon rendalli</i> *	tilren	-	-	2	2	-	-

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## Neotropical Ichthyology



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