

Supplementary material

Quantitative food webs and invertebrate assemblages of a large River: a spatiotemporal approach in floodplain shallow lakes

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Table S1. Density values of all taxa from invertebrate assemblages sampled in Lake Irupé and Lake Larga during flooding, transition and drought hydric phases

IPC, indirect and permanent connection; DTC, direct and temporal connection

Taxon	Irupé (IPC)			Larga (DTC)		
	Flooding	Transition	Drought	Flooding	Transition	
Zooplankton (individuals L ⁻¹)						
Chidoridae	2	0	0	0	1	
Sididae	1	0	0	0	0	
Daphnidae	0	0	1	0	0	
Bosminidae	4	0	3	0	0	
Macrothricidae	0	0	0	0	0	
Ilyocryptidae	0	0	0	0	0	
Moinidae	1	0	3	0	0	
Cladocera sum	8	0	7	1	1	
Cyclopoidea	6	1	7	1	4	
Calanoidea	0	1	11	0	0	
Harpacticoidea	0	0	0	0	0	
Copepoda sum	6	1	19	1	4	
Ostracoda	1	0	0	0	0	
Bdelloidea	22	7	42	12	15	
Asplanchnidae	Asplanchna	38	9	68	14	21
	Asplanchnopus	3	0	0	4	1
Brachionidae	Anuraeopsis	0	8	0	0	0
	Brachionus	0	0	0	0	0
	Kellicottia	1	0	0	0	0
	Keratella	1	1	17	0	0
	Notholca	0	0	0	0	0
	Platyas	0	0	11	0	0
Dicranophoridae	Dicranophorus	0	0	0	0	0
Epiphanidae	Epiphanes	1	0	0	4	0
Euchlanidae	Beauchampiella	1	0	0	0	0
	Euchlanis	0	2	0	0	0
Gastropodidae	Ascomorpha	0	0	0	0	0
Lecanidae	Lecane	1	0	1	0	1
Lepadellidae	Colurella	0	0	0	1	0
	Lepadella	6	0	1	2	1
Mytilinidae	Mytilina	1	0	0	0	1
Notommatidae	Cephalodella	0	0	1	2	1

Taxon			Irupé (IPC)			Larga (DTC)	
			Flooding	Transition	Drought	Flooding	Transition
Zooplankton (<i>Cont.</i>)							
Synchaetidae	Ploesoma		0	0	0	1	1
	Polyarthra		1	1	1	1	0
	Synchaeta		0	0	0	0	0
Trichoceridae	Trichocerca		2	5	4	4	0
Trichotriidae	Macrochaetus		2	4	3	1	0
	Trichotria		2	1	1	2	4
	Wolga		0	0	0	0	0
Filinidae	Filinia		1	1	0	1	1
Testudinellidae	Pompholyx		0	0	0	0	0
	Testudinella		0	0	0	0	0
Rotifera sp.			1	0	0	0	0
Rotifera sum			86	39	152	49	46
Nauplii			3	0	0	1	1
<i>L. fortunei</i> larvae			4	0	0	0	0
Benthos (individuals m ⁻²)							
Ephemeroptera	Nymphs	Caenidae	132	158	345	33	110
		Ephemeridae	0	0	0	352	176
Odonata	Anysoptera	Gomphidae	22	0	0	0	0
		Libellulidae	0	22	0	0	44
Zygoptera		Calopterygidae	22	0	0	0	0
		Coenagrionidae	0	0	22	0	22
		Noteridae	0	0	0	0	44
Coleoptera	Adult		0	0	0	0	44
	Larvae	Curculionidae	0	22	0	0	0
		Elmidae	0	0	0	0	0
Lepidoptera	Larvae	Crambidae	0	22	0	0	0
Hemiptera	Adult	Mesoveliidae	0	0	0	0	22
Diptera	Larvae	Chironomidae/Chironominae	1962	1342	110	381	484
		Chironomidae/Tanypodinae	433	282	165	374	183
		Ceratopogonidae	44	22	0	0	66
		Chironomidae	44	0	0	0	44
		Hydroptilidae	0	0	0	55	0
Trichoptera	Larvae	Polycentropodidae	0	44	0	22	22
		Glossomatidae	0	0	0	22	0
		Hydropsychidae	0	0	0	0	44
		Odontoceridae	0	0	0	0	0
		Hyalellidae	0	22	44	22	147
Crustacea	Adult	Palaemonidae	0	0	0	0	0

Taxon	Irupé (IPC)			Larga (DTC)			
	Flooding	Transition	Drought	Flooding	Transition		
Benthos (Cont.)							
Crustacea (Cont.)		Trichodactylidae	0	0	22	0	0
Mollusca		Ampullaridae	66	55	0	0	44
		Sphaeriidae	22	209	44	0	44
		Hydrobiidae	0	726	198	0	132
		Ancylidae	0	66	33	0	22
		Planorbidae	0	22	0	0	0
		Mytilidae	0	55	1221	0	44
Pisces		Symbranchidae	0	0	0	0	22
		Hypopomidae	0	0	0	0	22
Amphibia	Hylidae	Hylidae	0	0	0	0	22
Hirudinea		Hirudinea	337	176	22	88	99
Oligochaeta		Oligochaeta	11007	7876	4737	3465	1511
Nematoda		Nematoda	275	506	88	110	44
Platyhelminth		Platyhelminth	176	110	22	22	33
Arachnida		Araneae	0	22	0	0	0
	Acari	Hydrachnidia	0	0	44	0	22
Zooplankton		Ostracoda	0	0	0	0	0
		Cladocera	0	0	0	0	0
		Copepoda	0	0	0	0	0
Pleuston (individuals m⁻²)							
Ephemeroptera	Nymphs	Leptophlebiidae	0	4	0	0	0
		Baetidae	0	12	0	0	0
		Caenidae	540	272	5544	396	260
Odonata	Zygoptera	Pseudotigmatidae	0	8	0	4	4
		Coenagrionidae	108	0	452	124	132
	Anysoptera	Aeshnidae	0	0	12	0	0
		Libellulidae	40	56	56	56	572
Coleoptera	Adults	Curculionidae	56	4	160	16	20
		Noteridae	56	116	4	136	968
		Hydrophilidae	0	0	8	0	0
		Haliplidae	12	0	0	56	64
		Dysticidae	36	40	0	8	24
		Chrysomelidae	12	0	0	0	0
		Elmidae	0	0	12	0	0
		Staphylinidae	0	0	20	0	0
		Gyrinidae	0	12	0	0	0
	Larvae	Curculionidae	0	0	48	0	0

Taxon			Irupé (IPC)			Larga (DTC)		
			Flooding	Transition	Drought	Flooding	Transition	
Pleuston (<i>Cont.</i>)								
Coleoptera (<i>Cont.</i>)	Larvae (<i>Cont.</i>)	Dystiscidae	20	0	0	8	0	
		Hydrophilidae	4	0	32	0	0	
		Gyrinidae	12	0	0	0	0	
		Georissidae	0	0	0	0	0	
		Lampyridae	4	4	28	0	0	
Lepidoptera	Larvae	Crambidae	48	40	380	48	56	
		Cosmopterigidae	0	0	0	0	0	
		Tortricidae	0	0	4	0	0	
		Pyralidae	0	0	0	0	0	
		Nepticulidae	0	4	4	4	8	
		Tortricidae	0	4	0	0	0	
Hemiptera	Adults	Belostomatidae	0	8	20	4	4	
	Adults	Pleidae	8	4	20	0	0	
		Notonectidae	0	0	0	0	0	
		Gerridae	0	0	4	0	4	
		Hebridae	0	0	4	0	0	
		Corixidae	4	0	0	0	0	
Trichoptera	Larvae	Hydroptilidae	44	40	152	44	8	
		Hydropsychidae	4	0	0	80	84	
		Leptoceridae	0	0	0	0	0	
		Polycentropodidae	268	232	128	340	408	
		Glossosomatidae	56	0	0	0	0	
Diptera	Larvae	Chironomidae/Chironominae	400	848	3648	2084	1888	
		Chironomidae/Tanypodinae	184	260	428	172	184	
		Culicidae	0	0	0	0	0	
		Tipulidae	0	0	0	0	0	
		Ephydriidae	0	0	0	0	0	
		Muscidae	0	0	0	0	0	
		Stratiomyidae	0	0	0	0	0	
		Dolichopodidae	0	0	0	0	0	
		Ceratopogonidae	8	0	0	0	0	
		Pupae	Chironomidae	0	0	0	0	0
		Pupae	Ceratopogonidae	0	0	0	40	40
		Adults	Chironomidae	0	0	0	0	0
		Adults	Tipulidae	0	4	0	0	0
		Collembola	Adults	Collembola	0	68	96	0
Hymenoptera		Hymenoptera	0	4	0	0	0	

Taxon			Irupé (IPC)			Larga (DTC)		
			Flooding	Transition	Drought	Flooding	Transition	
Pleuston (<i>Cont.</i>)								
Orthoptera	Adults	Gryllidae	0	0	4	0	0	
		Acridoidea	0	0	0	0	4	
Crustacea		Hyalaelidae	2964	4272	3064	828	2260	
		Palaemonidae	0	168	644	4	1012	
		Trichodactylidae	24	12	120	4	4	
Mollusca		Planorbidae	436	4	52	180	184	
		Ancylidae	116	68	236	88	132	
		Ampullaridae	112	12	420	4	12	
		Lymnaeidae	28	0	0	24	24	
		Hydrobiidae	68	56	2120	0	72	
		Sphaeriidae	28	0	0	0	0	
		Succineidae	0	4	8	0	24	
		Mytilidae (<i>L. fortunei</i>)	0	12	228024	184	140	
		Corbiculidae	0	0	0	0	32	
	Pisces		Synbranchidae	24	8	0	16	20
			Gymnotidae	4	0	8	0	20
		Clupeidae	4	0	0	0	0	
		Curimatidae	0	20	0	0	0	
		Characidae	12	12	0	0	0	
		Sternopygidae	0	0	0	0	48	
		Crenuchidae	0	16	0	0	0	
		Hypopomidae	0	0	4	0	8	
		Callichthyidae	0	0	0	0	8	
		Cichidae	0	0	12	0	80	
		Lebiasinidae	0	0	0	0	72	
Amphibia			Hylidae	0	0	0	0	104
Nematoda			Nematoda	8	32	0	0	20
Platyhelminth		Platyhelminthes	0	0	536	0	0	
Hirudinea		Hirudinea	24	68	4	8	24	
Oligochaeta		Oligochaeta	136	360	3180	112	216	
Arachnida		Araneae	40	4	124	0	20	
	Acari	Hydrachnidia	12	40	164	4	0	
Winged no ident		No ident	0	16	32	0	0	