forests

MDPI

Supplementary material for the Article:

Michelet, C.; Zeppilli, D.; Hubas, C.; Baldrighi, E.; Cuny, P.; Dirberg, G.; Militon, C.; Walcker, R.; Lamy, D.; Jézéquel, R.; Receveur, J.; Gilbert, F.; Houssainy, A.E.; Dufour, A.; Heimbürger-Boavida, L.-E.; Bihannic, I.; Sylvi, L.; Vivier, B.; Michaud, E. First Assessment of the Benthic Meiofauna Sensitivity to Low Human-Impacted Mangroves in French Guiana. *Forests* **2021**, *12*, 338. https://doi.org/10.3390/f12030338

				Station 1		Station 2		Station 3	
Family	Genus	Genus abbreviation	Trophic group	Density ind.10cm^{-2}	Relative density (%)	Density ind.10cm^{-2}	Relative density (%)	Density ind.10cm^{-2}	Relative density (%)
anoplostomatidae	*Anoplostoma*	Ano	1B	113 ± 71	5 ± 3	0	0	452 ± 128	7 ± 0.5
Aponchiidae	*Synonema*	NA	2A	0	0	0	0	33.2 ± 44.3	0.4 ± 0.5
Axonolaimidae	*Parodontophora*	Pad	1B	28 ± 19	12 ± 8	0	0	294 ± 43	5 ± 1
	Pseudolella	NA	2A	0	0	6.3 ± 8.4	0.1 ± 0.13	0	0
Camacolaimidae	*Camacolaimus*	NA	2A	0	0	7.7 ± 10.3	0.12 ± 0.16	25.4 ± 26.7	0.3 ± 0.3
Chromadoridae	*Deontolaimus*	Deo	2A	99 ± 55	4 ± 2	0	0	508 ± 79	9± 3
	Diodontolaimus	NA	2A	3.4 ± 4.6	0.14 ± 0.18	0	0	0	0
	Listia	NA	2A	3.4 ± 4.6	0.14 ± 0.18	0	0	8 ± 1	0.17 ± 0.23
	Onchium	NA	2A	0	0	0	0	144 ± 151	1.8 ± 1.7
	Acantholaimus	NA	2A	0	0	25 ± 33.4	0.4 ± 0.5	0	0
	Hypodontolaimus	Hyp	2A	130± 63	6 ± 3	0	0	0	0
	Karkinochromadora	NA	2A	3.8 ± 5	0.16 ± 0.22	28.8 ± 38.4	0.4 ± 0.6	63.3 ± 84.4	1.4 ± 1.9
	Neochromadora	Neo	2A	56 ± 27	2 ± 1	73 ± 69	1 ± 1	8 ± 10	0.2 ± 0.2
Comesomatidae	*Cervonema*	NA	1B	0	0	0	0	5.65 ± 7.5	0.1 ± 0.13
	Ptycholaimellus	Pty	2A	0	0	214 ± 121	3 ± 2	100 ± 52	2 ± 1
	Sabatieria	NA	1B	0	0	0	0	24.1 ± 32.1	0.3 ± 0.4
	Setosabatieria	NA	1B	0	0	10.7 ± 14.3	0.3 ± 0.4	0	0
Cyatholaimidae	*Cyatholaimus*	NA	2A	4.6 ± 6.1	0.2 ± 0.3	0	0	0	0
	Longicyatholaimus	NA	2A	3.4 ± 4.6	0.14 ± 0.18	0	0	0	0
	Marylynnia	NA	2A	12.1 ± 16.1	0.5 ± 0.7	0	0	17.4 ± 7.6	0.3 ± 0.13
	Paracomesoma	NA	2A	2.95 ± 3.94	0.13 ± 0.17	19.6 ± 26.1	0.3 ± 0.4	5.6 ± 7.5	0.1 ± 0.13
	Paracyatholaimus	NA	2A	25.4 ± 21.1	1.09 ± 0.9	36.9 ± 24.6	0.75 ± 0.5	0	0
Desmoscolecidae	*Calligyrus*	NA	1A	0	0	0	0	9.4 ± 12.5	0.16 ± 0.21
	Desmoscolex	NA	1A	0	0	0	0	8.5 ± 11.3	0.1 ± 0.13
Desmodoridae	*Desmodora*	Dea	2A	648 ± 158	27 ± 6	912 ± 517	14.5 ± 7	293 ± 132	6 ± 3
	Metachromadora	NA	2B	0	0	10.7 ± 14.3	0.3 ± 0.4	0	0
	Spirinia	Spi	2A	252 ± 154	10 ± 6	343 ± 92	7 ± 4	0	0
Diplopeltidae	*Araeolaimus*	NA	1A	0	0	0	0	28.6 ± 36.2	0.49 ± 0.65
	Campylaimus	NA	1B	0	0	19.6 ± 26.1	0.3 ± 0.4	0	0
	Southerniella	Sou	1A	7 ± 9	0.3 ± 0.4	0	0	163 ± 94	2 ± 1
Enchelidiidae	*Polygastrophora*	NA	2B	0	0	21.3 ± 28.4	0.33 ± 0.44	0	0
	Paraethmolaimus	Pae	2A	114 ± 118	5 ± 5	0	0	0	0
Ethmolaimidae	*Halaphanolaimus*	NA	1A	4.7 ± 6.2	0.19 ± 0.25	0	0	11.4 ± 15.3	0.25 ± 0.34
Leptolaimidae	*Leptolaimoides*	NA	1A	9.9 ± 6.6	0.4 ± 0.3	0	0	54.6 ± 46.9	0.7 ± 0.5
	Leptolaimus	NA	1A	3.78 ± 5	0.16 ± 0.2	19.6 ± 26.1	0.3 ± 0.4	30.3 ± 20.2	0.6 ± 0.4
	Pseudocella	Psc	2A	77 ± 21	3 ± 1	39 ± 52	1 ± 1	670 ± 275	10 ± 3
Linhomoeidae	*Anticyathus*	NA	1B	0	0	0	0	18.8 ± 25.1	0.3 ± 0.4
	Desmolaimus	NA	1B	15 ± 20.1	0.67 ± 0.88	21.6 ± 28.8	0.56 ± 0.74	45.2 ± 49	0.97 ± 1.1

	Disconema	NA	1A	0	0	0	0	37.7 ± 50.2	0.64 ± 0.86
	Eleutherolaimus	NA	1B	0	0	107.1±	1.6 ± 1.9	0.9 ± 1.2	0.16 ± 0.2
	Linhomoeus	NA	2A	0	0	71.4	0	9.4 ± 12.5	0.16 ± 0.2
	Megadesmolaimus	NA	1B	0	0	0	0.6 ± 0.4	4.2 ± 5.6	0.05 ± 0.07
	Metalinhomoeus	Mel	1B	0		30.3 ± 20.2	3 ± 2	0	0
						193 ± 107			
	Linhomoeus	Pal	1B	5 ± 6	0.2 ± 0.2	164 ± 109	2.5 ± 2	61 ± 58	1 ± 1
	Terschellingia	Ter	1A	96 ± 47	4 ± 2	1410± 525	28 ± 12	14.5 ± 19	3 ± 4
	Aponema	NA	2A	0	0	28.6 ± 30.7	0.7 ± 0.8	0	0
Microlaimidae									
	Microlaimus	Mic	2A	15 ± 8	1 ± 0.4	367 ± 248	8 ± 7	1178 ± 560	17 ± 6.5
	Molgolaimus	Mol	1A	5 ± 6	0.2 ± 0.3	140 ± 102	2 ± 2	39 ± 17	1 ± 0.1
	Diplolaimella	NA	1B	0	0	85 ± 52	1.9 ± 5.5	3.5 ± 4.7	0.08 ± 0.1
Monhysteridae	*Halomonhystera*	NA	1B	0	0	0	0	4.2 ± 5.6	0.05 ± 0.07
	Thalassomonhystera	NA	1B	0	0	19.6 ± 2.6	0.3 ± 0.4	0	0
Oncholaimidae	*Oncholaimus*	NA	2B	14.6 ± 9.7	0.6 ± 0.4	3.1 ± 4.2	0.05 ± 0.06	0	0
Oxystominidae	*Halalaimus*	Hal	1A	185 ± 41	8 ± 2	144 ± 96	2 ± 1.5	583 ± 273	9 ± 2
	Nemanema	NA	1A	3.4 ± 4.6	0.14 ± 0.18	0	0	0	0
	Oxystomina	NA	1A	0	0	7.7 ± 10.3	0.12 ± 0.16	0	0
	Paroxystomina	NA	1A	0	0	0		3.5 ± 4.7	0.08 ± 0.1
Rhabditidae	*Wieseria*	NA	1A	0	0	19.6 ± 26.1	0.3 ± 0.4	0	0
	Rhabditis	NA	1A	0	0	0	0	13.6 ± 9.7	0.2 ± 0.2
Selachinematidae	*Halichoanolaimus*	NA	2B	24.7 ± 1.8	1 ± 0.08	105.5± 37.4	1.8 ± 0.4	106.4±27.8	1.9 ± 0.9
	Richtersia	Ric	1B	5 ± 6	0.2 ± 0.3	245 ± 198	4 ± 3	0	0
Siphonolaimidae	*Astomonema*	NA	2B	0	0	21.6 ± 28.8	0.56 ± 0.7	0	0
Sphaerolaimidae	*Metasphaerolaimus*	Mes	2B	320± 220	1 ± 1	0	0	151 ± 70	2.5 ± 1
	Sphaerolaimus	Sph	2B	64 ± 40	3 ± 2	39 ± 52	1 ± 1	222 ± 84	3.5 ± 1
	Subsphaerolaimus	Sub	2B	48 ± 17	2 ± 1	0	0	7± 6	1 ± 1
	Amphimonhystrella	NA	1B	0	0	7 ± 4.7	0.14 ± 0.09	3.5 ± 4.7	0.08 ± 0.01
	Daptonema	Dap	1B	0	0	183 ± 122	3 ± 2	84 ± 62	1 ± 1
	Cobbia	Cob	2A	36 ± 10	1.5 ± 0.5	65 ± 33	1 ± 1	19 ± 8	3 ± 1
	Elzalia	Elz	1B	109 ± 34	5 ± 2	43 ± 50	1 ± 1	263 ± 105	4 ± 1
	Gnomoxyala	NA	1B	0	0	19.6 ± 26.1	0.3 ± 0.4	3.8 ± 5	0.06 ± 0.09
	Linhystera	NA	1A	0	0	44.6 ± 29.7	0.69 ± 0.46	24.5 ± 32.6	0.4 ± 0.07
Xyalidae	*Paramonohystera*	NA	1B	24.4 ± 12.5	1.05 ± 0.55	3.8 ± 5	0.06 ± 0.08	5.6 ± 7.5	0.1 ± 0.13
	Paramphimonhystrella	NA	1B	0	0	0	0	5.6 ± 7.5	0.1 ± 0.13
	Stylotheristus	NA	1B	0	0	3.2 ± 4.3	0.08 ± 0.1	0	0
	Theristus	NA	1B	0	0	27.1 ± 36.1	0.4 ± 0.6	0	0
	Zygonemella	Zyg	1B	8 ± 4	3 ± 1.5	287 ± 191	4 ± 3	35 ± 23	1 ± 0.4

Figure S3: Comprehensive list of the Nematode families and genus found at the three stations of the Cayenne estuary. This table presents the trophic groups for each genus (1A: bacterivorous ; 1B: non-selective detritivores ; 2A: grazers; 2B: omnivorous-predators) and their mean density (individuals per $10cm^2$; ± SD) and mean relative densities (%; ± SD) at each station.