

Table S2. Number of individuals by species present in each estuary.

Estuary	Ablabesmyia sp. 1	Ablabesmyia sp. 2	Ablabesmyia sp. 3	Ablabesmyia sp. 4	Ablabesmyia sp. 5
Laguna Barra del Colorado	1	0	0	0	0
Laguna Cuatro	0	0	0	0	0
Laguna del Tortuguero	0	0	1	2	2
Laguna Jalova	0	0	0	0	0
Río Parismina	0	0	0	0	0
Río Pacuare	0	1	0	0	0
Estero Negro	0	0	0	1	1
Río Estrella	0	0	3	3	0
Río Bananito	0	0	5	1	0
Total	1	1	9	7	3

Ablabesmyia sp. 6	Apedilum sp. 1	Axarus sp. 1	Axarus sp. 2	Beardius cf. reissi	Chironomini sp. 1	Chironomini sp. 1'
0	1	433	0	0	0	2
0	0	0	0	18	0	6
0	0	0	0	7	0	1
0	0	0	0	2	1	4
0	0	0	0	0	0	0
0	7	3	0	0	0	0
0	0	0	0	0	0	0
0	13	0	1	3	0	0
1	16	0	5	0	0	5
1	37	436	6	30	1	18

Chironomini sp. 1	Chironomini sp. 1	Chironomini sp. 2	Chironomini sp. 3	Chironomini sp. 4	Chironomini sp. 5	Chironomini sp. 7
0	0	6	1	4	0	0
0	0	0	0	0	0	0
0	1	0	0	0	0	0
0	11	0	0	0	0	1
0	0	15	4	143	0	0
0	0	121	37	98	0	0
0	0	0	0	0	0	0
0	0	0	0	0	12	0
1	1	0	0	0	3	3
1	13	142	42	245	15	4

Chironomini sp. 8	Chironomini sp. 9	Chironomus sp. 1	Chironomus sp. 2	Chironomus sp. 3	Cladopelma cf. for	Cladopelma sp. 1
0	26	0	0	0	0	0
0	0	3	0	66	0	147
0	0	4	3	0	0	0
0	0	0	1	1	0	0
0	0	0	0	0	0	0
0	29	0	0	0	0	0
0	0	0	0	0	0	0
0	8	3	0	0	0	1
1	0	0	0	1	2	2
1	63	10	4	68	2	150

Cladotanytarsus s	Cladotanytarsus s	Cladotanytarsus s	Coelotanypus sp.	Coelotanypus sp.	Coelotanypus sp.	Corynoneura cf. si
0	1	0	3	0	0	0
0	0	0	0	0	0	0
0	0	0	90	12	26	0
0	0	576	4	0	59	0
0	0	0	0	0	0	0
6	0	0	2	1	10	0
0	0	0	0	0	0	0
217	2	12	30	0	0	0
179	0	0	31	0	0	45
402	3	588	160	13	95	45

Corynoneura sp. 1	Corynoneura sp. 2	Corynoneura sp. 3	Corynoneura sp. 4	Corynoneura sp. 5	Corynoneura sp. 6	Cricotopus (Cricot	
0	2	0	0	0	0	0	95
1	0	0	0	0	0	0	15
5	1	1	0	0	0	0	59
0	0	0	0	0	0	0	90
1	1	0	0	0	1	0	9
0	12	0	0	0	0	0	34
1	0	0	0	0	0	0	2
1	2	0	0	0	0	0	493
30	28	0	1	0	0	1	124
39	46	1	1	1	1	1	921

Cricotopus (Cricot	Cricotopus (Cricot	Cricotopus (Cricot	Cricotopus (Cricot	Cricotopus (Cricot	Cricotopus (Cricot	Cricotopus (Cricot	Cricotopus (Cricot
0	1	2	0	1	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	1	
0	0	0	0	0	0	0	
1	1	1	4	1	0	1	
0	0	2	0	0	0	0	
6	17	93	1	57	1	54	
7	43	113	0	42	0	25	
14	62	211	5	101	1	81	

Cricotopus (Cricot	Cricotopus (Cricot	Cricotopus (Nosto	Cricotopus (Nosto	Cricotopus (Oliveii	Cryptochironomus	Cryptochironomus
0	0	177	0	0	0	1
0	0	0	0	0	0	0
0	0	0	0	0	17	0
0	0	0	0	0	39	0
0	0	0	0	0	1	0
4	0	0	0	0	9	0
0	0	0	0	0	0	0
4	14	0	1	1	240	0
0	30	0	0	0	20	0
8	44	177	1	1	326	1

Cryptochironomus	Cryptochironomus	Cryptochironomus	Cryptochironomus	Cryptochironomus	Cryptochironomus	Cryptochironomus
0	0	3	19	0	0	2
0	0	0	0	0	1	0
0	0	0	0	0	0	0
0	1	0	0	0	2	1
0	0	0	0	1	0	2
0	0	0	2	0	0	1
0	0	0	0	0	0	0
5	0	0	5	0	0	0
2	0	0	3	0	0	0
7	1	3	29	1	3	6

Cryptochironomus	Cryptotendipes sp	Cryptotendipes sp	Dicrotendipes sp.	Dicrotendipes sp.	Dicrotendipes sp.	Dicrotendipes sp.
0	5	0	0	0	0	0
0	0	0	29	0	0	0
0	31	0	4	3	0	1
0	137	0	1	1	0	0
0	12	0	0	0	0	0
0	111	0	0	0	0	0
0	0	0	14	0	0	0
0	79	1	8	118	4	0
1	468	0	47	25	0	0
1	843	1	103	147	4	1

Einfeldia sp. 1	Endotribelos sp. 1	Endotribelos sp. 2	Endotribelos sp. 3	Endotribelos sp. 4	Endotribelos sp. 5	Endotribelos sp. 6
0	0	1	0	0	0	0
3	0	1	0	0	0	1
0	0	4	0	2	0	0
0	0	11	0	0	0	0
0	0	0	0	0	0	0
0	1	1	0	0	0	0
0	0	2	0	0	0	0
0	3	15	0	0	0	0
0	1	21	1	0	2	0
3	5	56	1	2	2	1

Eukiefferiella sp. 1	Eukiefferiella sp. 2	Eukiefferiella sp. 3	Eukiefferiella sp. 4	Fittkauimyia sp. 1	Goeldichironomus	Goeldichironomus
0	0	0	0	0	0	0
0	0	0	0	0	1	2
0	0	1	0	0	0	0
0	0	0	0	0	0	0
3	0	0	0	0	0	0
5	1	0	0	0	0	0
0	0	0	0	0	0	3
1	0	0	1	0	0	0
0	0	0	0	0	0	0
9	1	1	1	1	3	2

Gymnometriocnen	Gymnometriocnen	Harnischia comple	Harnischia comple	Harnischia comple	Harnischia comple	Harnischia comple
1	1	12	72	1	0	0
0	0	0	0	0	0	0
0	0	0	2	0	0	0
0	0	0	0	0	0	1
0	0	225	17	0	0	0
1	1	201	67	1	0	0
1	0	0	0	0	0	0
0	0	1	0	5	0	0
1	0	0	0	24	11	0
4	2	439	158	31	11	1

Labrundinia sp. 1	Labrundinia sp. 2	Labrundinia sp. 3	Labrundinia sp. 4	Labrundinia sp. 5	Labrundinia sp. 6	Larsia sp. 1
0	0	0	0	0	0	0
9	0	2	0	0	0	1
10	6	1	0	0	1	0
5	0	0	0	0	0	0
0	0	0	0	0	0	0
2	0	0	0	0	0	0
48	0	0	1	0	0	0
53	0	1	0	0	2	0
32	0	6	1	1	4	1
159	6	10	2	1	7	2

Larsia sp. 2	Microchironomus	Monopelopia sp. 1	Monopelopia sp. 2	Nanocladius sp. 1	Nanocladius sp. 2	Nanocladius sp. 3
0	0	0	0	176	1005	0
2	0	0	0	2	1	0
0	0	0	0	46	49	2
0	0	0	0	19	15	4
0	0	0	0	6	441	0
0	0	0	0	2	373	0
0	0	2	0	3	0	0
0	1	0	0	74	56	0
0	0	0	0	136	7	0
2	1	2	2	462	1947	6

Nilotanypus cf. ka	Nilotanypus sp. 1	Nilothauma cf. rei	Nilothauma sp. 1	Nilothauma sp. 2	Nilothauma sp. 3	Nilothauma sp. 4
0	67	0	57	7	3	0
0	0	2	0	0	0	0
0	1	3	2	0	0	0
0	0	0	0	0	0	0
0	22	0	1	0	0	0
0	9	1	25	0	5	0
0	0	0	0	0	0	0
2	2	0	0	0	0	1
2	0	0	0	0	0	0
4	101	6	85	7	8	1

Onconeura sp. 1	Onconeura sp. 2	Onconeura sp. 3	Orthoclaadiinae sp.	Orthoclaadiinae sp.	Orthoclaadiinae sp.	Orthoclaadius sp. 1
11	1	10	0	0	0	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	0	0	0	0
0	0	3	0	0	0	0
31	6	29	0	0	1	0
0	0	0	0	0	0	0
29	4	16	0	1	0	0
3	2	0	1	0	0	0
74	13	59	1	1	1	1

Orthocladius sp. 2	Orthocladius sp. 3	Parachironomus s	Parachironomus s	Parachironomus s	Parachironomus s	Parachironomus s	Parachironomus s
0	0	0	1	0	0	0	0
0	0	1	12	0	0	0	0
0	0	1	3	1	0	0	1
0	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0
0	0	0	0	0	0	0	0
1	1	4	1	12	1	0	0
0	0	0	0	5	0	0	0
1	1	7	18	18	1	1	1

Parachironomus s	Parachironomus s	Parachironomus s	Parachironomus s	Parakiefferiella sp	Parakiefferiella sp	Paralauterborniella
0	0	0	0	0	0	26
0	0	26	0	0	0	0
8	0	0	0	0	0	3
0	0	0	0	0	0	156
0	0	0	0	0	0	11
0	0	0	0	0	0	3
0	0	0	0	0	0	0
0	2	0	0	0	0	0
0	0	0	1	1	1	0
8	2	26	1	1	1	199

	Paralauterborniell	Parametriocnemu	Parametriocnemu	Paratanytarsus sp	Pentaneura sp. 1	Polypedilum sp. 1	Polypedilum sp. 1
	0	0	0	0	0	0	0
	0	0	0	0	0	26	0
	17	0	0	0	0	0	0
	4	0	0	0	0	0	0
	11	0	0	0	0	0	0
	0	2	3	0	0	0	0
	0	0	0	0	0	28	0
	0	1	7	0	1	0	11
	0	0	1	8	0	0	2
	32	3	11	8	1	54	13

Polypedilum sp. 1	Polypedilum sp. 1	Polypedilum sp. 1	Polypedilum sp. 1	Polypedilum sp. 1	Polypedilum sp. 1	Polypedilum sp. 1
0	0	3	0	0	1	9
0	0	0	20	0	36	2
0	0	1	1	2	26	9
0	0	5	0	1	4	43
0	0	0	0	0	0	1
0	1	7	0	1	4	2
0	0	0	6	0	0	1
21	6	6	1	3	7	0
2	3	11	0	6	14	0
23	10	33	28	13	92	67

	Polypedilum sp. 1	Polypedilum sp. 1	Polypedilum sp. 2	Polypedilum sp. 3	Polypedilum sp. 4	Polypedilum sp. 5	Polypedilum sp. 6
	0	0	4	0	21	1	0
	0	0	0	0	0	41	0
	2	0	33	0	0	71	0
	1	0	1	0	0	13	0
	0	0	7	0	9	1	0
	0	1	18	3	321	22	0
	0	0	0	14	0	238	0
	0	1	13	40	0	216	290
	0	0	1	212	0	162	51
	3	2	77	269	351	765	341

Polypedilum sp. 7	Polypedilum sp. 8	Polypedilum sp. 9	Procladius sp. 1	Pseudochironomu	Pseudochironomu	Pseudochironomu
0	1	0	0	5	1	0
0	0	0	0	0	0	0
0	0	0	6	7	0	0
0	2	1	0	2	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	1	9	0	0	106	14
1	2	44	0	0	53	0
2	6	54	6	14	160	14

Pseudochironomu	Pseudosmittia trilc	Rheotanytarsus sꞤ	Rheotanytarsus sꞤ	Robackia cf. claviꞤ	Robackia sp. 1	Saetheria sp. 1
0	0	81	0	124	42	0
0	1	0	0	0	0	0
0	0	26	0	0	0	0
0	0	2	0	0	0	0
0	0	2	45	14	4	0
0	0	16	124	95	16	103
0	0	0	0	0	0	0
6	0	1	15	3	0	0
21	0	0	55	0	0	0
27	1	128	239	236	62	103

Saetheria sp. 2	Saetheria sp. 3	Stempellina sp. 1	Stempellinella sp.	Stempellinella sp.	Stenochironomus	Stenochironomus
1	6	0	0	3	1	4
0	0	0	0	0	0	0
0	0	3	0	2	2	1
0	0	0	0	0	0	2
0	0	0	0	0	0	2
1	4	0	0	0	0	8
0	0	0	0	0	0	0
1	137	0	0	10	2	2
0	10	0	17	2	2	3
3	157	3	17	17	7	22

Stenochironomus	Stenochironomus	Stenochironomus	Stenochironomus	Stenochironomus	Stenochironomus	Stenochironomus	Stenochironomus
1	0	1	0	0	4	1	
0	5	0	1	0	0	0	
2	2	0	0	0	0	0	
5	0	3	0	0	0	0	
0	0	0	0	0	0	6	
0	0	0	0	0	0	14	
0	0	0	0	1	0	0	
0	0	0	0	0	0	4	
0	0	0	0	0	0	13	
8	7	4	1	1	4	38	

Stictochironomus	Stictocladius sp. 1	Sublettea sp. 1	Tanypus sp. 1	Tanytarsus sp. 1	Tanytarsus sp. 10	Tanytarsus sp. 11
0	0	0	0	0	0	0
0	0	0	0	0	3	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	0	0	0
1	0	0	0	2	4	0
0	0	0	0	0	1	0
35	7	3	0	0	483	0
17	0	0	0	0	4	1
53	7	4	2	2	495	1

Tanytarsus sp. 12	Tanytarsus sp. 13	Tanytarsus sp. 14	Tanytarsus sp. 15	Tanytarsus sp. 16	Tanytarsus sp. 17	Tanytarsus sp. 18
0	0	0	0	0	0	0
0	0	11	1	2	0	0
0	1	0	4	0	3	0
2	0	0	0	3	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	37
0	3	4	1	0	0	6
2	1	0	1	0	0	23
4	5	15	7	5	3	66

Tanytarsus sp. 19	Tanytarsus sp. 2	Tanytarsus sp. 20	Tanytarsus sp. 21	Tanytarsus sp. 22	Tanytarsus sp. 23	Tanytarsus sp. 24
0	0	0	0	0	1	0
71	3	186	0	0	0	0
0	1299	0	0	0	0	0
0	16	0	0	0	0	0
0	0	0	0	0	0	0
0	9	0	0	0	0	0
0	2	3	0	4	0	0
17	93	45	1	0	0	0
0	25	0	0	0	0	4
88	1447	234	1	4	1	4

Tanytarsus sp. 3	Tanytarsus sp. 4	Tanytarsus sp. 5	Tanytarsus sp. 6	Tanytarsus sp. 7	Tanytarsus sp. 8	Tanytarsus sp. 9
9	1	11	0	1	5	0
0	0	0	0	10	2	0
11	0	21	1	5	46	0
10	0	2	0	9	21	0
0	0	0	0	0	0	0
1	1	3	0	4	0	0
6	0	0	0	1	0	0
10	46	9	12	45	14	0
7	227	76	36	362	5	1
54	275	122	49	437	93	1

Thienemanniella s	Thienemanniella s	Thienemanniella s	Thienemanniella sp. 4	Thienemanniella sp. 5	Thienemanniella sp. 6
8	0	1	4	1	0
0	0	0	0	0	0
8	0	0	0	0	0
7	0	0	0	0	0
1	0	7	12	7	0
10	0	6	6	20	1
0	0	0	0	0	0
1	2	6	10	8	0
3	0	2	19	12	0
38	2	22	51	48	1

Thienemanniella s	Thienemanniella sp. 8	Ubatubaneura sp.	Ubatubaneura sp.	Ubatubaneura sp.	Ubatubaneura sp.
0	0	19	3	0	0
0	0	0	0	0	0
0	0	1	0	0	0
1	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	1	0
0	0	0	0	0	0
0	2	0	3	0	0
1	1	0	2	0	1
2	3	20	8	1	1

Xenochironomus	Xestochironomus	Xestochironomus	Xestochironomus	Xestochironomus	Zavreliella sp. 1	Zavreliella sp. 2	
1	1	0	0	0	0	0	
1	0	0	0	0	1	10	3
0	0	2	0	0	0	9	1
0	1	0	0	0	1	1	0
0	1	1	0	0	0	0	0
0	1	3	0	0	0	1	0
0	0	0	0	0	0	0	0
0	1	12	1	0	0	0	0
0	3	0	0	0	0	0	0
2	8	18	1	2	21	4	

Zavreliymya sp. 1 Total

0	2620
0	788
0	2043
0	1309
0	1051
0	2104
0	423
0	3620
2	3113
2	17071