

## CHIRONOMIDAE TYPES IN THE REFERENCE COLLECTION OF THE LABORATORY OF ECOLOGY OF AQUATIC INSECTS, SÃO CARLOS, BRAZIL

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### Abstract

The Chironomidae (Insecta: Diptera) type collection at the Laboratory of Ecology of Aquatic Insects (LEIA - UFSCar) is reviewed. It comprises 103 primary types, as well as 95 paratypes, mostly resulting from research by S. Trivinho-Strixino and G. Strixino. Notes updating the taxonomic status are provided for some species.

### Introduction

The type collection of Chironomidae at the Laboratory of Ecology of Aquatic Insects (LEIA - UFSCar) comprises numerous slide mounts, as well as large amounts of adult and immature specimens preserved in 70% ethanol. It is an important chironomid collection, especially regarding the Neotropical region. Moreover, it possesses valuable yet unstudied material mainly from south-east Brazil. It is historically relevant, but not well known. The largest part of this material results from research activities of S. Trivinho-Strixino and G. Strixino, who during more than three decades at the LEIA - UFSCar described numerous species.

The annotated checklist presented below (Table 1) was generated during a research visit of the present first author to LEIA - UFSCar in March 2015, which was partly financed by a Putnam expedition grant from the Museum of Comparative Zoology at Harvard University.

### Results

The collection at the LEIA - UFSCar includes holotypes for 103 species of Chironomidae, as well as 95 paratypes, all slide mounted, with a total of 109 species represented. Most of the types belong to the subfamilies Chironominae and Tanypodinae, but there are also types of Orthocladiinae, Podonominae and Telmatogetoninae. In the annotated checklist presented below (Table 1), all species names and references were checked with the corresponding literature. The notes on the species' taxonomic status are based on Systema Dip-terorum (Pape and Thompson 2013), as well as on published papers, keys (e.g. Cranston and Epler 2013, Spies and Reiss 1996, Trivinho-Strixino and Sanseverino 2003, Sanseverino et al. 2010) and/or on information from collection labels.

Table 1. Type specimens of Chironomidae deposited in the collection of the Laboratory of Ecology of Aquatic Insects (LEIA - UFSCar). Data in the "Type" and "Sex/Stage" columns refer to what is housed at UFSCar only, and that for some species this is less than the full material listed in the respective original publication. Abbreviations: H = holotype, P = paratype, f = female, l = larva, m = male, p = pupa.

Type number	Original genus	Original species	Author/Reference	Type	Sex/Stage	Note
<b>Chironominae</b>						
A1/01-07	<i>Aedokritus</i>	<i>coffeatus</i>	Trivinho-Strixino, 1997: 13	H, P	m, f, p, l	
M2/01-09	<i>Beardius</i>	<i>crithinae</i>	Trivinho-Strixino and Siqueira, 2007: 281	H, P	m, f, p	
M2/37-45	<i>Beardius</i>	<i>phytophilus</i>	Trivinho-Strixino and Strixino, 2000b: 245	H, P	m, l	
M2/27-33	<i>Beardius</i>	<i>roquei</i>	Trivinho-Strixino and Siqueira, 2007: 282	H, P	m, p	

Type number	Original genus	Original species	Author/Reference	Type	Sex/Life stage	Note
M2/19-24	<i>Beardius</i>	<i>xylophilus</i>	Trivinho-Strixino and Strixino, 2000b: 246	H, P	m, l	
C1/01	<i>Caladomyia</i>	<i>angela</i>	Trivinho-Strixino, 2012: 11	H	m	
C2/01, C2/03, C2/06, C2/08	<i>Caladomyia</i>	<i>bruneola</i>	Trivinho-Strixino, 2012: 13	H, P	m, f, p, l	
C1/02-03	<i>Caladomyia</i>	<i>canine</i>	Trivinho-Strixino, 2012: 16	H, P	m, p	
C1/06-07, C1/09-11	<i>Caladomyia</i>	<i>capaopreto</i>	Trivinho-Strixino, 2012: 18	H, P	m, p, l	
C1/04-05	<i>Caladomyia</i>	<i>carolae</i>	Trivinho-Strixino, 2012: 21	H, P	m	
C2/12-19	<i>Caladomyia</i>	<i>carolensis</i>	Trivinho-Strixino, 2012: 22	H, P	m, f, p, l	
C1/45-48	<i>Caladomyia</i>	<i>comunis</i>	Trivinho-Strixino, 2012: 26	H, P	m, p, l	
C1/13	<i>Caladomyia</i>	<i>curumim</i>	Trivinho-Strixino, 2012: 29	H	m, p, l	
C3/04-15	<i>Caladomyia</i>	<i>friederi</i>	Trivinho-Strixino and Strixino, 2000a: 168	H, P	m, f, p, l	
C1/15-18	<i>Caladomyia</i>	<i>jaragua</i>	Trivinho-Strixino, 2012: 31	H	m, p, l	
C2/28-29, C2/32-33, C2/35	<i>Caladomyia</i>	<i>kapilei</i>	Trivinho-Strixino, 2012: 33	H, P	m, p, l	
C1/20-25	<i>Caladomyia</i>	<i>yara</i>	Trivinho-Strixino, 2012: 36	H, P	m, f, p, l	
B1/01-13	<i>Chironomus</i>	<i>amissum</i>	Correia, Trivinho-Strixino and Michailova, 2013: 134	H, P	m, p, l	1
M2/30-32	<i>Chironomus</i>	<i>antonioi</i>	Correia and Trivinho-Strixino, 2007: 57	H, P	m, p, l	
M1/42-44	<i>Chironomus</i>	<i>detriticola</i>	Correia and Trivinho-Strixino, 2007: 54	H, P	m, p, l	
M1/48	<i>Chironomus</i>	<i>fittkau</i>	Correia and Trivinho-Strixino, 2007: 65	H	m, p, l	
F1/15-26	<i>Chironomus</i>	<i>inquinatus</i>	Correia, Trivinho-Strixino and Michailova 2006: 58	H, P	m, f, p, l	
B2/11-14	<i>Chironomus</i>	<i>oliveirai</i>	Correia and Trivinho-Strixino, 2007: 63	H, P	m, p, l	
B2/20-26	<i>Chironomus</i>	<i>phytophilus</i>	Correia and Trivinho-Strixino, 2007: 61	H, P	m, p, l	

Type number	Original genus	Original species	Author/Reference	Type	Sex/Life stage	Note
F1/01-15	<i>Chironomus</i>	<i>reissi</i>	Correia, Trivinho-Strixino and Michailova 2005: 30	H, P	m, f, p, l	
B2/01-06	<i>Chironomus</i>	<i>sancticaroli</i>	Trivinho-Strixino and Strixino, 1981: 333	H, P	m, f	2
M1/01-04	<i>Cryptochironomus</i>	<i>brasiliensis</i>	Silva, Trivinho-Strixino and Oliveira, 2010: 19	H, P	m, p, l	
M1/08-12	<i>Cryptochironomus</i>	<i>mantiqueira</i>	Silva, Trivinho-Strixino and Oliveira, 2010: 23	H, P	m, p, l	
M1/15-21	<i>Cryptochironomus</i>	<i>reshchikovi</i>	Silva, Trivinho-Strixino and Oliveira, 2010: 27	H, P	m, p, l	
E3/07-11	<i>Endotribelos</i>	<i>bicolor</i>	Trivinho-Strixino and Pepinelli, 2015: 3	H, P	m, f, p, l	
E1/15-17	<i>Endotribelos</i>	<i>calophylli</i>	Roque and Trivinho-Strixino, 2008: 193	H, P	m, p, l	
E2/01-02	<i>Endotribelos</i>	<i>euterpe</i>	Roque and Trivinho-Strixino, 2008: 196	H, P	m, f, p, l	
E3/01-03	<i>Endotribelos</i>	<i>ficus</i>	Roque and Trivinho-Strixino, 2008: 201	H, P	m, p, l	
E3/39-43	<i>Endotribelos</i>	<i>fulvidus</i>	Trivinho-Strixino and Pepinelli, 2015: 11	H, P	m, f, p, l	
E2/37-42	<i>Endotribelos</i>	<i>jaragua</i>	Trivinho-Strixino and Pepinelli, 2015: 17	H, P	m, f, p, l	
E3-25	<i>Endotribelos</i>	<i>jiboia</i>	Trivinho-Strixino and Pepinelli, 2015: 24	H	m, p, l	
E2/20-27	<i>Endotribelos</i>	<i>semibruneus</i>	Trivinho-Strixino and Pepinelli, 2015: 24	H, P	m, f, p, l	
E3/34-42	<i>Endotribelos</i>	<i>sublettei</i>	Trivinho-Strixino and Pepinelli, 2015: 29	H, P	m, f, p, l	
E1/01-05	<i>Endotribelos</i>	<i>talaumae</i>	Roque and Trivinho-Strixino, 2008: 203	H, P	m, f, p, l	
L1/01-09	<i>Goeldichironomus</i>	<i>luridus</i>	Trivinho-Strixino and Strixino, 2005: 441	H, P	m, f, p, l	
L1/40-41	<i>Goeldichironomus</i>	<i>maculatus</i>	Trivinho-Strixino and Strixino, 1991b: 593	H, P	m, f	
L1/30-36	<i>Goeldichironomus</i>	<i>neopictus</i>	Trivinho-Strixino and Strixino, 1998: 271	H, P	m, f, p, l	
L1/14-20	<i>Goeldichironomus</i>	<i>petiolicola</i>	Trivinho-Strixino and Strixino, 2005: 442	H, P	m, f, p, l	
L2/01	<i>Nimbecera</i>	<i>paulensis</i>	Trivinho-Strixino and Strixino, 1991a: 175	H, P	l	3
M1/36	<i>Nimbecera</i>	<i>rhabdomantis</i>	Trivinho-Strixino and Strixino, 1991a: 173	H, P	l	4

Type number	Original genus	Original species	Author/Reference	Type	Sex/Life stage	Note
L1/47-48	<i>Oukuriella</i>	<i>jatai</i>	Trivinho-Strixino and Messias 2005: 285	H, P	m, f, p, l	
A1/25-32	<i>Parachironomus</i>	<i>lupus</i>	Trivinho-Strixino, Silva and Roque, 2010: 2	H, P	m, p, l	
A3/16-25	<i>Paratanytarsus</i>	<i>corbii</i>	Trivinho-Strixino, 2010: 60	H, P	m, f, p, l	
A3/14-15	<i>Paratanytarsus</i>	<i>silentii</i>	Trivinho-Strixino, 2010: 65	H, P	m	
A2/25-30	<i>Pelomus</i>	<i>psammophilus</i>	Trivinho-Strixino and Strixino, 2008: 224	H, P	m, f, p, l	
A2/01-05	<i>Pelomus</i>	<i>sophiae</i>	Trivinho-Strixino and Silva 2011: 274	H, P	m, p, l	
O2/48-50	<i>Riethia</i>	<i>manauara</i>	Neubern, Trivinho-Strixino and Silva, 2011: 596	H, P	m, p, l	
H1/23-25	<i>Tanytarsus</i>	<i>alfredoii</i>	Sanseverino and Trivinho-Strixino, 2010: 78	H, P	m, p, l	
H2/01-20	<i>Tanytarsus</i>	<i>caipira</i>	Trivinho-Strixino and Strixino, 2007: 62	H, P	m, f, p, l	
H2/43-48	<i>Tanytarsus</i>	<i>corumba</i>	Trivinho-Strixino, Wiedenbrug and Silva, 2015: 92	H, P	m	
H1/29-30	<i>Tanytarsus</i>	<i>fittkaui</i>	Sanseverino and Trivinho-Strixino, 2010: 75	H, P	m, p, l	
H1/33-43	<i>Tanytarsus</i>	<i>giovannii</i>	Sanseverino and Trivinho-Strixino, 2010: 71	H, P	m, p, l	
H3/33-37	<i>Tanytarsus</i>	<i>hirsutus</i>	Trivinho-Strixino, Wiedenbrug and Silva, 2015: 93	H, P	m, p	
H3/01-13	<i>Tanytarsus</i>	<i>impar</i>	Trivinho-Strixino and Strixino, 2004: 160	H, P	m, f, p, l	
H3/40-43	<i>Tanytarsus</i>	<i>jatai</i>	Trivinho-Strixino, Wiedenbrug and Silva, 2015: 95	H, P	m	
H1/46-49	<i>Tanytarsus</i>	<i>lenyae</i>	Sanseverino and Trivinho-Strixino, 2010: 68	H, P	m, p	
H2/29-36	<i>Tanytarsus</i>	<i>longitubuli</i>	Trivinho-Strixino, Wiedenbrug and Silva, 2015: 96	H, P	m, p, l	
H3/19-27	<i>Tanytarsus</i>	<i>magnus</i>	Trivinho-Strixino and Strixino, 2004: 155	H, P	m, f, p, l	
H1/01-21	<i>Tanytarsus</i>	<i>obiriciae</i>	Trivinho-Strixino and Sonoda 2006: 2	H, P	m, f, p, l	

Type number	Original genus	Original species	Author/Reference	Type	Sex/Life stage	Note
H3/30-31	<i>Tanytarsus</i>	<i>pseudocurvicristatus</i>	Trivinho-Strixino, Wiedenbrug and Silva, 2015: 98	H, P	m, p, l	
A3/01-05	<i>Tapajos</i>	<i>cristinae</i>	Trivinho-Strixino, Silva and Oliveira, 2013: 396	H, P	m	
M3/01-15	<i>Xenochironomus</i>	<i>ceciliae</i>	Roque and Trivinho-Strixino, 2005: 232	H, P	m, f, p, l	
<b>Orthoclaadiinae</b>						
N3/01	<i>Gravatamberus</i>	<i>nidularium</i>	Mendes and Andersen, 2008: 49	P	m, p, l	
N3/02	<i>Physoneura</i>	<i>paulseni</i>	Stur and Andersen, 2000: 132	P	m	
<b>Podonominae</b>						
N1/13-14	<i>Podonomus</i>	<i>pepinellii</i>	Roque and Trivinho-Strixino, 2004: 2	H	p	
<b>Tanypodinae</b>						
P1/25	<i>Ablabesmyia</i>	<i>arquata</i>	Neubern, 2013: 9	H	m	
P3/02-06	<i>Ablabesmyia</i>	<i>cauame</i>	Neubern, 2013: 13	H, P	m	
P1/12-20	<i>Ablabesmyia</i>	<i>commata</i>	Neubern, 2013: 21	H, P	m	
O1/01-21	<i>Ablabesmyia</i>	<i>communiba</i>	Neubern, 2013: 24	H, P	m, p, l	
P2/12-14	<i>Ablabesmyia</i>	<i>cordeiroi</i>	Neubern, 2013: 30	H, P	m	
O2/37-38	<i>Ablabesmyia</i>	<i>depaulai</i>	Neubern, 2013: 33	H	m, p, l	
P2/40-42	<i>Ablabesmyia</i>	<i>diversa</i>	Neubern, 2013: 39	H, P	m	
O2/01-05	<i>Ablabesmyia</i>	<i>ducke</i>	Neubern, 2013: 41	H, P	m, p, l	
O2/32-33	<i>Ablabesmyia</i>	<i>fazzari</i>	Neubern, 2013: 47	H, P	m, p, l	
P1/45-46	<i>Ablabesmyia</i>	<i>fusariae</i>	Neubern, 2013: 53	H, P	m, p, l	
P1/36-39	<i>Ablabesmyia</i>	<i>gessnerae</i>	Neubern, 2013: 59	H, P	m, p, l	
P2/33-37	<i>Ablabesmyia</i>	<i>gigas</i>	Neubern, 2013: 64	H, P	m	
O2/29	<i>Ablabesmyia</i>	<i>jaquirana</i>	Neubern, 2013: 71	H	m	

Type number	Original genus	Original species	Author/Reference	Type	Sex/Life stage	Note
P2/18	<i>Ablabesmyia</i>	<i>manauara</i>	Neubern, 2013: 80	H	m	
P2/20-22	<i>Ablabesmyia</i>	<i>martha</i>	Neubern, 2013: 83	H, P	m	
P3/09-10	<i>Ablabesmyia</i>	<i>novema</i>	Neubern, 2013: 89	H, P	m, p, l	
O3/12-16	<i>Ablabesmyia</i>	<i>oliveirai</i>	Oliveira and Fonseca-Gessner, 2006: 740	H, P	m, p, l	
P1/29-33	<i>Ablabesmyia</i>	<i>parannulata</i>	Neubern, 2013: 95	H, P	m	
O2/39-40	<i>Ablabesmyia</i>	<i>parareissi</i>	Neubern, 2013: 99	H, P	m	
O2/20-27	<i>Ablabesmyia</i>	<i>pinhoi</i>	Neubern, 2013: 102	H, P	m, p	
P2/30	<i>Ablabesmyia</i>	<i>rafaeli</i>	Neubern, 2013: 106	H	m	
P1/42	<i>Ablabesmyia</i>	<i>separata</i>	Neubern, 2013: 109	H	m	
P2/25-27	<i>Ablabesmyia</i>	<i>strixinoae</i>	Neubern, 2013: 113	H, P	m, p, l	
P1/21-23	<i>Ablabesmyia</i>	<i>suiamissu</i>	Neubern, 2013: 118	H, P	m	
O1/41-42	<i>Clinotanypus</i>	<i>caritus</i>	Oliveira, Silva and Trivinho-Strixino, 2014a: 319	P	m, p, l	
O1/31-32	<i>Clinotanypus</i>	<i>gymnos</i>	Oliveira, Silva and Trivinho-Strixino, 2014a: 325	H, P	m, p, l	
O1/44-45	<i>Clinotanypus</i>	<i>setosus</i>	Oliveira, Silva and Trivinho-Strixino, 2014a: 330	H, P	m, p, l	
O1/34-39	<i>Clinotanypus</i>	<i>striatus</i>	Oliveira, Silva and Trivinho-Strixino, 2014a: 336	H, P	m, p, l	
B3/11-14	<i>Guassutanypus</i>	<i>oliveirai</i>	Roque and Trivinho-Strixino, 2003: 161	H, P	m, f, p, l	5
O3/04-10	<i>Hudsonimyia</i>	<i>araxa</i>	Silva, Wiedenbrug, Oliveira, Trivinho-Strixino and Pepinelli, 2012: 1629	P	m, f, p, l	
O3/01	<i>Hudsonimyia</i>	<i>caissara</i>	Silva, Wiedenbrug, Oliveira, Trivinho-Strixino and Pepinelli, 2012: 1623	P	m, p, l	
O2/42-44	<i>Larsia</i>	<i>gelhausi</i>	Oliveira and Silva, 2011: 30	H, P	m, p, l	

Type number	Original genus	Original species	Author/Reference	Type	Sex/Life stage	Note
O2/12-14	<i>Larsia</i>	<i>hamadae</i>	Oliveira and Silva, 2011: 35	H	m, p, l	
B3/07-08	<i>Larsia</i>	<i>labartheae</i>	Serpa-Filho, 2005: 295	P	m	
O3/25-32	<i>Metapelopia</i>	<i>corbii</i>	Silva, Oliveira and Trivinho-Strixino, 2014: 86	H, P	m, f, p, l	
O2/07-10	<i>Monopelopia</i>	<i>paranaensis</i>	Oliveira, Mendes and Silva, 2010: 54	H, P	m, f, p, l	
O1/24-27	<i>Parapentaneura</i>	<i>brunnescens</i>	Oliveira, Silva and Trivinho-Strixino, 2014b: 27	H, P	m, p, l	
O1/29	<i>Parapentaneura</i>	<i>flavescens</i>	Oliveira, Silva and Trivinho-Strixino, 2014b: 31	H	m, p, l	

#### Telmatogetoninae

P1/01-09	<i>Thalassomya</i>	<i>gutae</i>	Oliveira, Silva and Trivinho-Strixino, 2013: 590	H, P	m, p, l	
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Notes in Table 1:

1. In *Chironomus amissum* Correia, Trivinho-Strixino and Michailova, 2013, the original spelling of the species epithet, “*amissum*”, meaning loss, has to be emended. Correia *et al.* (2012: 134) gave an etymological derivation from a Latin noun “*amissum*”, meaning loss, but that Latin noun is “*amissus*”, with masculine rather than neuter gender and ending.
2. *Chironomus sancticaroli* Trivinho-Strixino and Strixino, 1981 has been treated as a junior synonym of *C. xanthus* Rempel, 1939 by some authors since Spies and Reiss (1996).
3. *Nimboecera paulensis* Trivinho-Strixino and Strixino, 1991 has been treated as a junior synonym of *Caladomyia ortonii* Säwedal, 1981 since Trivinho-Strixino and Strixino (2003).
4. *Nimboecera rhabdomantis* Trivinho-Strixino and Strixino, 1991 has been carried as *Tanytarsus rhabdomantis* (Trivinho-Strixino and Strixino, 1991) since Trivinho-Strixino and Sanseverino (2003).
5. *Guassutanypus oliveirai* Roque and Trivinho-Strixino, 2003 has been carried as *Alotanypus oliveirai* (Roque and Trivinho-Strixino, 2003) since Cranston and Epler (2013).

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