A catalog of the types of Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Limnichidae, Elmidae, Dryopidae, Heteroceridae and Scirtidae (Insecta, Coleoptera) deposited in the Museo Argentino de Ciencias Naturales, Buenos Aires

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Abstract: The type specimens (all current categories) of Gyrinidae, Haliplidae, Dytiscidae, Noteridae (Adophaga), Limnichidae, Elmidae, Dryopidae, Heteroceridae and Scirtidae (Polyphaga) deposited in this Museum are listed; 52 names are recorded, 31 of them (60%) represented here by name-bearing types (‘primary’ types). The specific and subspecific names were alphabetically filed, followed by the generic ones as they were spelled in the original publication (or the generic and specific names in the case of subspecies and varieties). Later combinations and/or current binomina are mentioned, as far as these are known to the author. Two lists are added: 1. of specimens labelled as types of names not found in the literature, and presumably not published, and 2. of specimens labelled as types, but not originally included as such, and published or not after the original description.

Key words: water beetles, type specimens, museum collection, Argentina.

A list of the type specimens of the species of aquatic coleopteran families (exclusive of Hydrophiloidea) deposited in the Entomological Division of this Museum is presented, corresponding to 52 names: 10 holotypes, 32 syntypes (of 21 names) 1 of them dubious, 130 paratypes (including 5 allotypes), and 1 paralectotype; 31 of these 52 names (60%) are here represented by name-bearing types (‘primary types’).

Specific and subspecific names are alphabetically entered, as is usual in type catalogs; each name is followed by the generic one (and subspecific one if it was mentioned) as it was spelled in the original binomen, or by the generic and specific ones in the case of subspecies or ‘varieties’; bibliographic citation follows, as well as an account of the types, if these were mentioned, starting with those deposited in this Museum. An account of the type specimens actually housed follows, with their label data. According to the International Code of Zoological Nomenclature (4th edition, 1999), allotypes are not ‘name-bearing types’. If the country is not mentioned, Argentina is meant; in every other case, the country is mentioned first. Some specimens bear a registration number, entered in the Entomological Division register, but numbers under 10000 correspond to the old general register of the museum. Later nomenclatural or taxonomical changes are added, as far as they are known to the author.

For the identification of types not formally designated in the original publication (art. 72.4 of the Code), evidences from the labels, as they are written in the collections examined by authors of names, were used. When the authors did not formally designate a holotype, or its equivalent, and did not mention the amount of specimens examined, it is assumed that they had a series of syntypes (recommendation 73 F of the Code), eventually ‘unique syntypes’.

There are some specimens labelled as types, of names not found in the literature, and assumed not to have been published. These names are probably not available in the sense of the Code, but in order to assist in future research, they are listed separately.

Specimens designated as types after the original publication date, published or not, cannot be accepted as included in the type series, but, also in order to assist in future research, they are included in a further separate list along with other specimens labelled as types, but not included in the original publication.

This Museum is identified by MACN; repositories of other types are identified as follows:

The classification given by Lawrence and Newton (1995) is here followed. *Orychonotus excavatus* Bréthes 1922 was identified by Reichardt in 1973 as a Limnichid, not a Nosodendrid, and therefore the entry was included here.

Fernández & Cabrera (1996) published a catalog of the types of Dytiscoidea, Haliploidea, Gyrinoidea and Hydrophiloidea kept in the Museo de La Plata, which, along with the present one, include most of the types kept in Argentinian Institutions; a few are in the Fundación e Instituto Miguel Lillo, Tucumán.

CATALOG OF THE TYPES

GYRINOIDEA: GYRINIDAE

*selindanus* [*Aulonogryrus caffer* subsp.]. Brinck 1955: 341: Southern Rhodesia.
1 parat., pinned, “Chirinda For- / est, S. Rhod. XII / -1937, G. von Son”.

HALIPOLEOIDEA: HALIPOLEIDAE

2 parat. 7725 on cards, Chaco, with a white paper disc “3437” (type register of MLP), with a glass microval; 1♂. parat. B. Aires Prov.: Tigre, ex AOB.

*oblongus* [*Haliplus*]. Zimmermann 1921: 182: 1♂, 1♀. from B. Aires, in BRC.
1 synt. on a card, with a glass microval, B. Aires Prov., labelled “Typus”, ex BRC.

*ornatipennis* [*Haliplus*]. Zimmermann 1921: 182-183: 6 ex. from Tucumán, in BRC.
2 synt. (both?) on cards, Tucumán Prov., labelled “Typus” and “Cotypus” (printed on pale green paper) respective, the first one with an identification label handwritten by Zimmermann; ex BRC.

Note: from Zimmermann’s paper it is not clear if he intended to designate a type; Bruch’s printed labels suggest that there were name-bearing and non-name-bearing types; on the other hand Bruch’s handwritten identification labels differ in shape and aspect, suggesting that he received the specimens at different times, and that the “Cotypus” (with the later label) could not have been included in the original series.

*subseriatus* [*Haliplus, Halipliadeae*]. Zimmermann 1921: 181-182: 1♀ from Tierra del Fuego.
Holot. ♀. on a card, with a glass microval, Tierra del Fuego, labelled “Typus”, ex BRC.

Note: The locality agrees with, but the sex of the specimen differs from that mentioned by Zimmermann (a transcription error?).

DYTISCOIDEA: DYTISCIDAE AND NOTERIDAE

*arauco* [*Lancetes, Dytiscidae*] Bachmann & Trémouilles 1981: 106, 113-115, f. 17: Holot. ♀ from Mendoza, ex BRC. Allot. ♀ from Neuquen Prov.: La Pintada, at MLP, parat. in MLP, IFML and AOB.

Holot. ♀. pinned, with a glass microval, Mendoza, ex BRC; 1 parat. Neuquen Prov.: La Pintada, ex AOB.

*bifasciatus* [[*Bidessus*] (*Hemibidessus*), Dytiscidae]. Zimmermann 1921: 197, 206: 5 ex. from Brasil: Corumbá; 2 ex., somewhat larger, from Argentina: Santa Fe, in BRC.
1 synt. on a card, S. Fe Prov., ex BRC.

Note: Recorded under *Hemibidessus* by Young (1969: 2).

*bruchi* [sub Bruchi] [*Canthydrus, Noteridae*]. Zimmermann 1919: 115-116: 2 ex. from B. Aires in BRC. Name of Régimbart in litt.
1 synt. on a card, labelled “Typus”, ex BRC.
Note: Recorded under *Sushisellus* by Bruch (1927: 538, 540).

**bruchi** [sub *Bruchi*]. [*Dorovatellus*, Dytiscidae]. Zimmermann 1919: 125-126: 3 ex. from Buenos Aires, in BRC. Name of Régimbart in litt.

1 synt. on a card, B. Aires Prov., ex BRC.

*Note: Designated type species of *Mesovatellus* Trémoillies (1995: 25, 26-27).*


**conicus** [*Bidessus* (*Hemibidessus*), Dytiscidae]. Zimmermann 1921: 196-197, 206: Brasil: Corumbá, in large amounts; 1 ex. from Paraguay.

Name of Régimbart in litt.

2 synt. on cards, on 1 pin, Brasil: Mato Grosso State: Corumbá, labelled "Cotypus", ex BRC.

*Note: Recorded under *Hemibidessus* by Young (1969: 2).*


1 *c*, 10 ♀ synt. on pointed cards, the *c* with dissected parts glued to a further pointed card, Venezuela: Guárico: 44 km S of Calabozo.


2 synt. on cards, on 1 pin, Brasil: Mato Grosso State: Corumbá, labelled "Cotypus", ex BRC.


2 synt. on cards, on 1 pin, Brasil: M. Grosso State: Corumbá, labelled "Cotypus", ex BRC.

**magnus** [*Megodytes* (*Bifurcitus*), Dytiscidae]. Trémoillies & Bachmann 1981: 118-122, pl. vii: 10-18: Holot. *c*, allot. ♀ from Santa Fe Prov.: Ceres; parat.: 1 *c*, 1 ♀ from Santiago del Estero; 1 ♀ from S. Fe, in BRC; 1 *c* from S. Fe Prov.: Ceres; 1 ♀, 1 ♀ 15803 from Salta Prov.: Campo Durán; 1 ♀ from Paraguay: Boquerón Dept.: Cerro León; 2 ♀ without locality label 2110, 2111. Other parat. from the same localities, and from Formosa Prov.: Ing. Juárez, and E. Ríos Prov.: Primero de Mayo, at MLP, AOB and TRC.


**microscopicus** [*Bidessus*, Dytiscidae]. Zimmermann 1921: 193, 206: Brasil: Mato Grosso State: Corumbá, the species seems to be abundant.

2 synt. on cards on 1 pin, Brasil: M. Grosso State: Corumbá, labelled "Cotypus", ex BRC.

*Note: Recorded under *Liodessus* by Young (1969: 3).*


Holot. *c* with a glass microvial, allot. ♀, 17 parat., 2 of them with glass microvials, all pinned, R. Negro Prov.: Bariloche and Puerto Pañuelo.


1 ♀ parat. (with a glass microvial), 1 ♀ parat., both pinned, Brasil: Goiás State: S. Rita.

**peschetti** [sub *Peschetti*] [*Bidessus*, Dytiscidae]. Zimmermann 1921: 194, 206: Brasil: Mato Grosso State: Corumbá, in very large amounts.

3 synt. on cards on 1 pin, Brasil: Mato Grosso State: Corumbá, ex BRC.

*Note: A synonym of *Neobidessus alternatus* (Régimbart 1889), fide Young (1969: 3).*

**rufus** [*Sushisellus*, Noteridae]. Zimmermann 1921: 188: Mato Grosso State: Corumbá; several dozen specimens.

2 synt. on 1 pin, Brasil: Mato Grosso State: Corumbá, labelled "Cotypus".


2 synt. (both?) on cards, B. Aires Prov., both
labelled “Typus,” 1 of them labelled by Zimmermann as “Hydrovatus turbinatus Rég. n. sp. typ.,” and by Bruch as “Hydrovatus / turbinitus / Zimmer”; the other one without identification label. Ex BRC.

Note: The second specimen, not labelled by Zimmermann, is perhaps not a syntype.

tuyuensis [Hydatidus, Dytiscidae]. Trémouilles 1996: 17, 30-31, f. 1, 2a, b, 4, 19, 27, 35, 43: Holot. ♂, allot. ♀, 2 ♀, 1 ♀ parat. from Buenos Aires Prov.: Paraná River delta; 1 ♀ parat. from B. Aires Prov.: S. Clemente del Tuyú; 1 ♀ parat. from B. Aires Prov.: Punta Médanos; 1 ♀ parat. from B. Aires Prov.: Miramar; 2 ♀, 1 ♀ parat. from Uruguay: Rocha Dept.


varicollis [Sypsisellus, Noteridae]. Zimmermann 1921: 187: 2 ex. from Santa Fe Prov. in BRC; 1 ex. from Brasil: Corumbá.

1 synt. on a card, S. Fe Prov., labelled “Typus,” ex BRC.


1 parat. on a card, Venezuela: Guárico State: S. Fernando.

Note: The locality differs from that given in the original description, but the labels seem authentic.

BYRRHOIDEA: LIMNICHIDAE, ELMIDAE DRYOPIDAE AND HETEROCEIDAE


1 ♀ parat. on a pointed card, Costa Rica: Las Canas.

amazonica [Pagelmis, Elmidae]. Spangler 1981: 286-294, f. 1-17: Ecuador: Pastaza Prov.: Tzapino; Nape Prov.: Limoncocha. Parat. in MACN. Holot. ♀, allot. ♀ and parat. in USNM; other parat. in several institutions.

12 ♀, ♀ parat. on pointed cards, Ecuador: Pastaza Prov.: Tzapino, blacklight trap.

annectens [Hydora, Elmidae]. Spangler & Brown 1981: 599-602, f. 1-5, 8: Neuquen Prov.: Quilquihué; Río Negro Prov.; W of San Martín de los Andes; El Bolsón, and Norquino [all these under “Chile” by error]; Chile: Caútaun, Llanquihue, Malbeco, Ñuble, Osorno, and Talca Prov. Parat. in MACN. Holot. ♀, allot. ♀ and parat. in USNM; other parat. in several institutions.

1 ♀ parat. on a pointed card, Chile [sic, Argentina is meant]: R. Negro Prov.: El Bolsón.

argentinus [Dryops (Pomatinus), Dryopidae]. Berg 1885: 223-224: Surroundings of Buenos Aires; type in BC.

Holot. parat., B. Aires, labelled “Typus” (printed in red), and Dryops / argentinus / Berg 1885” (handwritten by Berg), ex BC.


breyeri [Limnichoderus, Limnichidae]. Pic 1930: 43: Buenos Aires Prov.: Tigre [Paraná River delta], in BRC and PC.

1 paratype. on a card, B. Aires: Tigre, labelled “Typus” (handwritten by Bruch on pale green paper), and “Limnichoderus / Breyeri n. sp.” (handwritten, seemingly by Pic), ex BRC.

Note: A synonym of Eulimnichus plebeius Sharp 1902 fide Wooldridge (1978: 170), who designates lectot.


2 synt. on cards, B. Aires, labelled “Typus” and “Cotyopus” respectively (printed on pale green paper), and “Heterocerus / Bruchi” and “Bruchi” respectively (handwritten by Grouvelle); ex BRC.

Notes: Transferred to Efflagitatus by Trémouilles (1993: 24), who states that E. splendidus Pacheco 1965 is a synonym Efflagitatus Pacheco 1965 is a synonym of Heterocerus Fabricius 1792, fide Mascagni (1993: 1).

cordubensis [Helichus, Dryopidae]. Berg 1885: 224: Córdoba Prov., at the Sierras, and at the surroundings of Córdoba city, in MACN and BC.

2 synt. on one card, labelled “Typus” (printed in red), “Cordoba” (printed on green paper), and “Hylichus / Erichs.” (handwritten, seemingly by Berg).
1 parat. on a pointed card, Venezuela: Guárico: Calabozo, blacklight trap.

1 synt. on a pointed card, B. Aires 10.VII.1908, with a square piece of red paper, labelled “type!” (handwritten by Brèthes). Ex JBC.
Notes: Brèthes did not mention how many specimens he had seen, seemingly only one (sole syntype?). The specimen is also labelled “Not Nosodendridae / ? Limnichidae / Reichardt det. 1973”.

2 ♀ parat. on pointed cards, Guiana: Mazaruni: Potaro Dist., Takutu Mountains.

Holot. ♂, allot. ♀ and 14 parat. on cards, on 16 pins, Jujuy: Yala pond 22.III.1982 leg. E. Angrisano.

1 parat. on a pointed card, Ecuador: Agrio Lake, at Aguarico River; blacklight trap.

latus [Phalacrichus, Limnichidae]. Wooldridge 1982: 382, 386, f. 5: Venezuela: Guárico and Barinas; Brasil: Pará; Colombia: Meta; Ecuador: Napo; Portuguesa Is. Holot. ♂, allot. ♀, parat. in USNM; other parat. in MCZ.
1 parat. on a pointed card, Venezuela: Barinas: Yuca River.

levis [Physemus, Limnichidae]. Wooldridge 1984: 538, f. 1: Venezuela: Barinas: E of El Cantón, holot. ♂, allot. ♀, many parat. in USNM; other parat. from Brasil: Goiás: Itapuranga; Jacaré: Xingu Nat. Park; Trinidad Is. in FMNH, MCZ and CNC.
1 pin, specimen missing on the pointed card, Venezuela: Barinas: E of El Cantón, blacklight trap.

1 parat. on a pointed card, Ecuador: Napo Prov.: Puerto Nuevo, blacklight trap.

1 synt. on a card, B. Aires: Tigre 10.IX.1908, labelled “type!” (handwritten by Brèthes), and with a square piece of red paper. Ex JBC.
Notes: Brèthes did not mention how many specimens he had seen, seemingly only one (sole syntype?). Recorded under Limnichoderes by Blackwelede (1944: 274).

1 parat. on a pointed card, Ecuador: ENE of Quevedo, blacklight trap.

rudis [Phalacrichus, Limnichidae]. Wooldridge 1982: 382, 385-386, f. 4: Venezuela: Guárico; Suriname. Holot. ♂, allot. ♀, parat. in USNM; other parat. in FMNH.
1 parat. on a pointed card, Venezuela: Guárico: S of Calabozo, blacklight trap.


simplex [Phalacrichus, Limnichidae]. Wooldridge 1982: 383, 387-388, f. 8: Venezuela: Guárico; Bolivia: Bení; Brasil: Goiás, Mato Grosso; Colombia: Meta. Holot. ♂, allot. ♀, parat. in Mus. Washington; other parat. in FMNH and MCZ.
1 parat. on a pointed card, Venezuela: Guárico, S of Calabozo, blacklight trap.

spangleri [Phalacrichus, Limnichidae].
1 parat. on a pointed card, Venezuela: Barinas: E of El Cantón, blacklight trap.

Holot. ♂ and 1 parat. ♂ on cards, on 1 pin, Chile: Punta Arenas 10.IV.1961, leg. T. Cekalovic.

1 parat. on a pointed card, Ecuador: Caraquez Bay, brackish lagoon.

1 synt. on a card, B. Aires, labelled “Typus” (printed on pale green paper), and “Heterocerus / validus / Grouv.” (handwritten by Bruch), ex BRC.

Note: Transferred to Efflagitatus by Pacheco (1965: 121); Efflagitatus is a synonym of Heterocerus Fabricius 1792, fide Mascagni 1993: 1.

SCIRTOIDEA: SCIRTIIDAE

bruchi [Ora]. Pic 1928: 8-9: Argentina, in BRC and PC.
1 synt. on a card, Buenos Aires Prov., labelled “Typus” (handwritten by Bruch on pale green paper), and “Ora Bruchi n. sp.” (handwritten, seemingly by Pic).

diversenotatus [Scirtes adustus, var.]. Pic 1930: 43-44. Córdoba Prov.: San Javier: La Paz, in BRC.
1 synt. on a card, Córdoba: La Paz, labelled “Typus” (handwritten by Bruch on pale green paper), and “Scirtes / confusus [sic] v. nov. diversenotatus” (handwritten, seemingly by Pic), ex BRC.

Note: Pic did not mention how many specimens he had seen, seemingly only one (sole syntype?).

1 synt. on a card, B. Aires 24.III.1923, labelled “type!” (handwritten by Bréthes), and with a square piece of red paper. Ex JBC.

Note: Bréthes did not mention how many specimens he had seen; the date differs from the published one.

NAMES NOT FOUND IN THE BIBLIOGRAPHY

The following names were not found in the bibliography, and were probably not published.

brevenotata [Ora, Scirtidae]. Pic
1 ex. on a card, Chaco Prov., labelled “Typus” (handwritten by Bruch on pale green paper), and “Ora brevenotata Pic var.” (handwritten, seemingly by Pic), ex BRC.

bruchi [Helichus, Dryopidae]. Grouvelle.
1 ex. on a card, Misiones Prov., labelled “Typus”, and “Helichus Bruchi Grouv.” (handwritten by Grouvelle), ex BRC.

bruchi [Polonômus, Dryopidae]. Grouvelle.
3 ex. on cards, 1 of them Córdoba Prov., labelled “Typus” (printed on pale green paper), and “Pelonom. Bruchi” (handwritten by Grouvelle); 2 of them Tucumán Prov., labelled “Cotypus” (printed on pale green paper), ex BRC.

crassipes [Helichus, Dryopidae]. Grouvelle.
1 ex. on a card, from “Corumbá-Paraguay” (sic), labelled “Cotypus” (printed on pale green paper), and “Helic. crassip.” (handwritten by Grouvelle), ex BRC.

1 ex. on a card, Tucumán Prov., labelled “Cotypus” (printed on pale green paper), and “Pelonomus dubitabilis” (handwritten by Grouvelle), ex BRC.

elongatus [Polonomus, Dryopidae]. Grouvelle.
1 ex. on a card, Buenos Aires Prov., labelled “Typus” (printed on pale green paper), and “Pelonom. elongat.” (handwritten by Grouvelle), ex BRC.

iheringi [Laccophilus, Dytiscidae]. Régimbart.
2 ex. on cards, Brasil: S. Paulo, labelled “Cotypus”, ex BRC.

sulcicollis [Dryops, Dryopidae]. Grouvelle
1 ex. on a card, Buenos Aires Prov., labelled “Typus” (printed on pale green paper), and “Dryops / sulcicollis / Grouv.” (handwritten by Bruch), ex BRC.
SPECIMENS LABELLED AS TYPES BUT NOT INCLUDED IN THE ORIGINAL SERIES

angustus [Laccophilus, Dytiscidae]. Régimbart 1889: 266: Paraguay: Asunción, and Brasil: Mato Grosso State, in OC and RC.
Note: S. Paulo was not mentioned in the original publication.

3 ex. on cards, on 2 pins, with a glass microvial each, Tucumán Prov., labelled “Typus” (1 ex.) and “Cotyopus” (2 ex.), the first one, in addition, “Heterocerus / Bergi / Grouv. typ.” (handwritten by Bruch), and “H. bergi / Grouv. det.” (handwritten by Grouvelle); ex BRC.
Notes: Tucumán was not mentioned in the original publication. Transferred to Tropicus by Trémouilles (1993: 24), who states that T. imperator Pacheco 1965 is a synonym.

bergi [Pelonomus, Dryopidae]. Grouvelle 1896: 6-7: Uruguay, in MACN and GM.
3 ex. on cards, 2 of them Tucumán Prov., 1 of them Jujuy Prov., labelled “Cotyopus” (printed on pale green paper), the 2nd one labelled “Pelonomus / Bergi Grouv.” (handwritten by Grouvelle).
Note: Tucumán and Jujuy were not mentioned in the original publication. Furthermore, the specimens were collected after the publication date.

flavolineatus [Canthydrys, Noteridae]. Régimbart 1889: 262-263: Brasil: Caraça, in OC and RC.
1 ex., pinned, Brasil: S. Paulo, labelled “Cotyopus”, ex BRC.
Notes: S. Paulo was not mentioned in the original publication. Recorded under Saphisellus by Grosso (1879: 11, 88, f. 90, 91, 99, 128-131).

igias [Pomatius, Dryopidae]. Grouvelle 1897: 216: Brasil: Santa Catarina, in GC.
2 ex. on cards, labelled “Rep. Argentina / Prov. Buenos Aires / 7.XI.1899 / C. Bruch” (printed, the date handwritten by Bruch), and “Typus” and “Cotyopus” respectively (printed on pale green paper), ex BRC.
Notes: B. Aires was not mentioned in the original publication; furthermore, the specimens were collected after the publication date. Recorded as Helichus gigas by Blackwelder (1944: 273).

obliquatus [Laccophilus, Dytiscidae]. Régimbart 1889: 264-265: Central Paraguay, and Brasil: Mato Grosso State, in OC and RC; Oberthür says it is perhaps the same as L. ovatus.
1 ex. on a card, Buenos Aires, ex BRC.
Note: Buenos Aires was not mentioned in the original publication.

1 ex. on a card, Buenos Aires Prov., labelled “Typus” (printed on pale green paper) and “parallelus Grouv.” (handwritten by Grouvelle), ex BRC.
Notes: Buenos Aires was not mentioned in the original publication; furthermore, the specimen was collected after the publication date. Recorded and redescribed under Parygrus by Grouvelle (1896: 215-216).

piceonotatus [Cyphon ligeti, var., Scirtidae [sub Ligeti]]. Pic 1918: 24: Chile.
1 ex. on a card, Buenos Aires Prov., labelled “Typus” (handwritten by Bruch on pale green paper), and “Cyphon / Siggeti [sic] / v. piceonotatus Pic” (handwritten, seemingly by Pic).
Note: B. Aires was not mentioned in the original publication.

reticulatus [Notomicrus, Noteridae]. Zimmermann 1921: 188-189: 1 ex. from Santa Fe, in BRC. Name of Régimbart in litt.
1 ex., B. Aires Prov., ex RIC, labelled “Notomicrus / reticulatus / Rég. type” handwritten by Régimbart.
Note: The label seems authentic, but localities differ (mislabelled?).

BIBLIOGRAFIA


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