

World catalogue of the Hydrophiloidea (Coleoptera): additions and corrections II (2006–2010)

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Abstract. All new names and nomenclatural acts affecting the taxonomy of the extant Hydrophiloidea (s. str.) since the publication of the first World Catalogue update in 2006 are reviewed. Additional citations relating to the phylogeny, immature stages, and fossil taxa of the superfamily are also provided. Four changes to family-group names are introduced, all affecting Hydrophilini: the subtribe Globulosina is synonymized with Acidocerina, and the three resulting subtribes of the Hydrophilini sensu HANSEN (1991) are each elevated to tribal rank: Acidocerini stat. nov., Hydrobiusini stat. nov., and Hydrophilini sensu nov. Five new genus-group synonymies are made: *Aгнаeformia* Shatrovskiy, 1989, syn. nov. = *Pacrillum* d'Orchymont, 1941; *Aschnaia* Makhan, 2007, syn. nov. = *Allocotocerus* Kraatz, 1883; *Gemelus* García, 2000, syn. nov. = *Methyrus* Rey, 1885; *Guaramacalus* García, 2000, syn. nov. = *Hugoscottia* Knisch, 1922; *Quasiparacymus* Marjanian, 2009, syn. nov. = *Paracymus* Thomson, 1867. Eight new combinations are proposed, most resulting from the new generic synonymies: *Allocotocerus soesilae* (Makhan, 2007) comb. nov. (from *Aschnaia*), *Enochrus andinus* (García, 2000) comb. nov. (from *Guaramacalus*), *Enochrus emeritensis* (García, 2000) comb. nov. (from *Guaramacalus*), *Enochrus pallidus* (García, 2000) comb. nov. (from *Gemelus*), *Laccobius flaveolus* (Hebauer & Wang, 1998) comb. nov. (from *Oocyclus* Sharp, 1882), *Oosternum amrishi* (Makhan, 2009) comb. nov. (from *Motonerus* Hansen, 1989), *Oosternum rishwani* (Makhan, 2009) comb. nov. (from *Motonerus*), and *Pacrillum lucidum* (Shatrovskiy, 1989) comb. nov. (from *Aгнаeformia*). Three replacement names for secondary junior homonyms are introduced: *Anacaena ovatides* Newton, 2011 for *Anacaena ovata* (Gentili, 2002); *Anacaena striatides* Newton, 2011 nom. nov. for *Anacaena striata* (Gentili, 2002); and *Laccobius manalicus* Short & Fikáček, 2011 nom. nov. for *Laccobius inermis* (Hebauer & Wang, 1998). The total number of valid, extant species in the Hydrophiloidea now stands at 3335 species in 176 genera.

Keywords. Hydrophiloidea, catalogue, taxonomy, update, new name, new synonym, new status, new combination

Introduction

Since the publication of the World Catalogue of Hydrophiloidea (HANSEN 1999), the lineage has enjoyed a comparatively modern and up-to-date accounting of its nomenclature. This work, taken together with the first update (SHORT & HEBAUER 2006), ensures that this comprehensive reference is maintained. In the last five years, nearly 200 species and five genera were described (though, nearly a dozen genera were also synonymized in the same period, and thus the number of valid genera has actually decreased).

Here, we review all new names and nomenclatural acts that affect the taxonomy of the Hydrophiloidea that have been made since the publication of the first update (SHORT & HEBAUER 2006) to the end of 2010. Older, known omissions from the previous catalogue or update are also included. In addition to the core catalogue, we have added a short second section on various research efforts that have been published in the last five years. This is not meant to be an exhaustive reference on these topics (it is not), but serves as a guide to other current literature that may be relevant to hydrophiloid nomenclature but that does not directly impact it.

While we maintain a systematic arrangement of families and subfamilies as in HANSEN (1999), we present the tribes, genera, and species alphabetically within each of those groups for ease of use. The total number of valid, extant species in the Hydrophiloidea at the end of 2010 stands at 3335 species in 176 genera (Table 1). This represents net gain of 532 species, or an increase of nearly 20 %, since the publication of the World Catalogue eleven years ago.

New family-group names and nomenclatural acts

tribe Acidocerini Zaitzev, 1908, **stat. nov.**

tribe Hydrobiusini Mulsant, 1844, **stat. nov.**

tribe Hydrophilini Latreille, 1802, **sensu nov.**

Comments. In his phylogenetic reorganization of the superfamily, HANSEN (1991) defined the Hydrophilini to include a broad range of typically aquatic hydrophilid taxa, which were grouped into three reciprocally monophyletic subtribes: the Hydrophilina (including all the larger, sternal-keel bearing hydrophilids which have traditionally comprised the Hydrophilini), the Acidocerina, and the Hydrobiina (later changed to Hydrobiusina by ICZN 2003). Subsequent phylogenetic analyses have largely supported the monophyly of each of the three constituent subtribes, but have found little support for a monophyletic Hydrophilini *sensu* Hansen (e.g. ARCHANGELSKY 2004, BERNHARD et al. 2006, SHORT 2010a). The morphological character support for a unified Hydrophilini is also weak. Consequently, we here elevate the three subtribes of the Hydrophilini *sensu* Hansen each to tribal rank in their own right. We note that this does not alter the implied monophyly of any of these units, nor is it incompatible with the phylogeny by HANSEN (1991). We make this change to facilitate a more clear and explicit discussion of the higher-level classification of the Hydrophiloidea.

subtribe Globulosina García, 2001, **syn. nov.** = tribe Acidocerini Zaitzev, 1908

Comments. The genus *Globulosis* García, 2001, erected for a single male specimen from Venezuela, served as the type genus for a concurrently described subtribe, Globulina (later emended to *Globulosina* by SHORT & HEBAUER

Table 1. Updated numbers of described genera and species for family-level taxa of the Hydrophiloidea (compiled according to HANSEN (1999), SHORT & HEBAUER (2006) and this paper).

HYDROPHILOIDEA (176 genera / 3335 species).

Helophoridae (1 genus / 192 species) – *Helophorus* (192).

Epimetopidae (3 genera / 29 species) – *Epimetopus* (19), *Eumetopus* (8), *Eupotemus* (2).

Georissidae (1 genus / 80 species) – *Georissus* (80).

Hydrochidae (1 genus / 181 species) – *Hydrochus* (181).

Spercheidae (1 genus / 18 species) – *Spercheus* (18).

Hydrophilidae (169 genera / 2835 species).

Horelophinae (1 genus / 1 species) – *Horelophus* (1).

Horelophopsinae (1 genus / 2 species) – *Horelophopsis* (2).

Hydrophilinae (61 genera / 1852 species).

ACIDOCERINI (17 genera / 528 species) – *Acidocerus* (1), *Agraphydrus* (18), *Chasmogenus* (39), *Cymbiodyta* (29), *Dieroxenus* (1), *Enochrella* (3), *Enochrus* (222), *Globulosus* (1), *Helochares* (180), *Helobata* (11), *Helocombus* (1), *Helopeltarium* (1), *Megagraphydrus* (12), *Peltochares* (1), *Quadriops* (6), *Tobochares* (1), *Troglochares* (1).

ANACAENINI (6 genera / 256 species) – *Anacaena* (111), *Crenitis* (41), *Notohydrus* (6), *Notionotus* (16), *Paracymus* (81), *Phelea* (1).

BEROSINI (5 genera / 364 species) – *Allocotocerus* (27), *Berosus* (273), *Derallus* (18), *Hemiosus* (36), *Regimbartia* (10).

CHAETARTHRIINI (8 genera / 92 species) – *Amphiops* (20), *Apurebium* (1), *Chaetarthria* (49), *Guyanobius* (4), *Hemisphaera* (5), *Micramphiops* (1), *Thysanarthria* (10), *Venezuelobium* (2).

HYDROBIUSINI (5 genera / 23 species) – *Hybognathus* (1), *Hydrumara* (1), *Hydrobius* (9), *Limnocyclus* (1), *Limnoxenus* (11).

HYDROPHILINI (7 genera / 198 species) – *Brownephilus* (2), *Hydrobiomorpha* (55), *Hydrochara* (23), *Hydrophilus* (48), *Protistolophus* (1), *Sternolophus* (9), *Tropisternus* (63).

LACCOBIINI (8 genera / 367 species) – *Arabhydrus* (1), *Hydrophilomima* (3), *Laccobius* (245), *Oocyclus* (48), *Ophthalmocyclus* (1), *Pelthydrus* (63), *Scoliopsis* (1), *Tritonus* (7).

SPERCHOPSINI (5 genera / 24 species) – *Amator* (5), *Anticura* (1), *Cylomissus* (1), *Hydrocassis* (16), *Sperchopsis* (1).

Sphaeridiinae (106 genera / 980 species).

ANDOTYPINI (2 genera / 4 species) – *Andotypus* (2), *Coelostomopsis* (2).

BORBOROPHORINI (2 genera / 4 species) – *Borborophorus* (3), *Petasopsis* (1).

RYGMODINI (7 genera / 20 species) – *Cylorygmus* (1), *Eurygmus* (1), *Pseudohydrobius* (2), *Pseudorygmus* (1), *Rygmus* (11), *Rygmotralia* (1), *Saphydrus* (3).

TORMISSINI (5 genera / 9 species) – *Afrotormus* (2), *Exydrus* (1), *Hydrostygnus* (1), *Tormus* (3), *Tormissus* (2).

COELOSTOMATINI (20 genera / 235 species) – *Adolopus* (5), *Badioglobus* (1), *Bourdonnaisia* (2), *Coeloctenus* (1), *Coelofletum* (3), *Coelostoma* (104), *Cyclotypus* (2), *Cyloma* (8), *Dactylosternum* (77), *Dactylostethus* (1), *Elocomosta* (1), *Galapagodacnum* (1), *Hemikruia* (1), *Hydroglobus* (1), *Kruia* (1), *Lachnodacnum* (3), *Phaenotomum* (18), *Phaenostoma* (3), *Rhachiolestethus* (1), *Toma* (1).

PROTOSTERNINI (4 genera / 19 species) – *Mucetum* (1), *Protosternum* (9), *Rhombosternum* (8), *Sphaerocetum* (1).

OMICRINI (15 genera / 104 species) – *Aculomicrus* (6), *Heteryon* (1), *Lala* (1), *Litrosurus* (1), *Mircogioton* (8), *Nannomicrus* (1), *Noteropagus* (4), *Omicrogiton* (4), *Omicrus* (20), *Oreomicrus* (3), *Paromicrus* (14), *Peratogonus* (3), *Psallitrus* (36), *Stannalcolmia* (1), *Tylomicrus* (1).

SPHAERIDIINI (1 genus / 42 species) – *Sphaeridium* (42).

MEGASTERNINI (50 genera / 543 species) – *Acaryon* (1), *Agna* (2), *Anchorosternum* (1), *Armustus* (13), *Australocyon* (19), *Bolbonotum* (3), *Cenebriophilus* (2), *Cercillum* (1), *Cercyodes* (2), *Cercyon* (259), *Ceronocyon* (3), *Cetiocyon* (9), *Chledocyon* (5), *Colerus* (1), *Cryptopleurum* (24), *Cycreeon* (1), *Cyrcillum* (1), *Cyrtonion* (3), *Delimetrium* (1), *Deltostethus* (4), *Emmidolium* (1), *Erycyodes* (2), *Gillsius* (2), *Kahanga* (1), *Kanala* (5), *Megasternum* (6), *Moraphilus* (1), *Morastus* (1), *Motonerus* (8), *Nipponocercyon* (1), *Nitidulodes* (1), *Notocercyon* (2), *Oosternum* (28), *Oreocyon* (1), *Pachysternum* (21), *Pacrillum* (5), *Parastromus* (6), *Paroosternum* (9), *Pelocyon* (1), *Pelosoma* (21), *Peltocercyon* (2), *Pilocnema* (18), *Platycyon* (26), *Pyretus* (1), *Pseucyon* (1), *Pseudocercyon* (1), *Pseudoosternum* (3), *Quadristerium* (1), *Sacosternum* (9), *Tectosternum* (3).

2006). The new subtribe was based primarily on the relatively rotund and convex body form, the last maxillary palpomere longer than the penultimate, and the last metatarsal segment as long as segments 1–4 combined. We have examined the unique holotype, as well as seen additional specimens from northern South America. While these and other characters set it apart as a separate genus, they are all found in various combinations in other members of the Acidocerini, and *Globulosis* is probably most closely related to the *Helochares*-group of genera. Consequently, we place the subtribe in synonymy with Acidocerini. It should be noted that the original incorrect spelling was emended twice independently: by SHORT & HEBAUER (2006) to *Globulosina* (considered as Latinized Greek) and by BOUCHARD et al. (2011) to *Globuloseina* (using a formal Greek stem of *Globulose*-). However, they were not aware of the emendation by SHORT & HEBAUER (2006) and the usage of the name *Globulosina* in subsequent publications (e.g., ARCHANGELSKY et al. 2009). Hence, we argue that the spelling *Globulosina* should be therefore maintained.

New genus-group names and nomenclatural acts

Agnaeformia Shatrovskiy, 1989, **syn. nov.** = *Pacrillum* Orchymont, 1941

Comments. We have examined the type series of *Agnaeformia lucida* Shatrovskiy, 1989 (the type species of *Agnaeformia*) deposited in the collection of the Zoological Museum of the Moscow University (not in the Zoological Institute of the Russian Academy of Science in St. Petersburg as it is indicated by SHATROVSKIY (1992)). The species agrees with *Pacrillum* in all diagnostic characters and is moreover extremely similar to *P. manchuricum* d'Orchymont, 1941. Thus, we place *Agnaeformia* in the synonymy with *Pacrillum*.

Aschnaia Makhan, 2007, **syn. nov.** = *Allocotocerus* Kraatz, 1883

Comments. This genus, described from India, was diagnosed by having an extremely convex body form, 8-segmented antennae, four abdominal ventrites, and an unusually long aedeagus, and was compared to the New World genus *Derallus* Sharp, 1882. This diagnosis combined with the photographs in the paper unambiguously show the taxon to be the same as the Old World genus *Allocotocerus*, a common element of the Indian fauna.

Beralitra d'Orchymont, 1919 = *Oocyclus* Sharp, 1882

Synonymized by SHORT & GARCÍA (2010: 4).

Brownephilus Mouchamps, 1959 – Hydrophilidae: Hydrophilinae: Hydrophilini (Near East)

Originally described as a subgenus of *Hydrobiomorpha* Blackburn, 1888, elevated to generic rank by SHORT (2010a).

Enigmata Hansen, 1999 = *Anacaena* Thomson, 1859

Synonymized by KOMAREK & BEUTEL (2007: 223).

Gemelus García, 2000, **syn. nov.** = *Methydрус* Rey, 1885 (subgenus of *Enochrus* Thomson, 1859)

Comments. This genus, described from the Venezuelan savanna, was erected largely on the presence of a sexual dimorphism of the protarsi, in which the basal segments of the males are expanded. Having examined the type material of *G. pallidus* (type species of *Gemelus*), indeed, the tarsi are curiously expanded reminiscent of some Chaetarthriini males. However, the species agrees in all other characters with a typical *Enochrus* (*Methydрус*). While the sexual dimorphism is indeed very interesting, as it is in other members of the genus *Enochrus* (e.g. the enlarged male palps of *Enochrus punctipalpus* Short, 2004), the species agrees in all other respects with the widespread and variable subgenus *Methydрус*. Thus, we place *Gemelus* in synonymy with *Methydрус*, now a subgenus of *Enochrus*.

Gentilina Hebauer, 2003 = *Anacaena* Thomson, 1859

Synonymized by KOMAREK & BEUTEL (2007: 223).

Grodum Hansen, 1999 = *Anacaena* Thomson, 1859

Synonymized by KOMAREK & BEUTEL (2007: 223).

Guaramacalus García, 2000 **syn. nov.** = *Hugoscottia* Knisch, 1922 (subgenus of *Enochrus* Thomson, 1859)

Comments. This genus, described from the Venezuelan Andes, was characterized as similar to *Enochrus* (in having the second, outwardly bowed maxillary palpomere) but possessing 8-segmented antennae (rather than 9-segmented in *Enochrus*), and the mesoventral process forming a cross, with both lateral and transverse carinae. We have examined the holotypes of the two described species, and the antennae in fact do have 9 segments in both of them. The cross-shape of the mesoventrite is diagnostic (within *Enochrus*) for the Andean subgenus *Hugoscottia*, although this subgenus has not previously been recorded from the northern Andes. Thus, we place *Guaramacalus* in synonymy with *Hugoscottia*, now a subgenus of *Enochrus*.

Hebauerina Gentili, 2002 = *Anacaena* Thomson, 1859

Synonymized by KOMAREK & BEUTEL (2007: 223).

Micramphiops Short, 2009 – Hydrophilidae: Hydrophilinae: Chaetartriini (Madagascar)

Omiops Perkins & Short, 2004 = *Anacaena* Thomson, 1859

Synonymized by KOMAREK (2009: 231).

Paracymus Thomson, 1867

Note. Based on their phylogenetic analysis of the Anacaenini based on adult morphological characters, KOMAREK & BEUTEL (2007) transferred the genus *Paracymus* from the tribe Anacaenini (where it was placed by HANSEN (1991)) to the tribe Laccobiini. The analysis by KOMAREK & BEUTEL (2007) is based on a wider set of characters than that by HANSEN (1991) and clearly shows that the genus *Paracymus* is more similar to several representatives of the Laccobiini (*Laccobius minutus* (Linnaeus, 1758), *Pelthydrus championi* d'Orchymont, 1926 and *Oocycclus imitator* Hebauer & Wang, 1998) than to the included Anacaenini. The position of *Paracymus* within the Hydrophilidae remains, however, unclear in our opinion due to the several issues which may affect its position in the analysis by KOMAREK & BEUTEL (2007): (i) several characters are misinterpreted [presence/absence of systematic punctures on various parts of the body] or adopted from previous analyses without a careful re-examination [morphology of the stridulatory area on abdominal laterotergite] and these are unfortunately among the few characters considered as synapomorphies of Anacaenini, Laccobiini and Anacaenini + Laccobiini; (ii) only a very limited number of taxa outside of Anacaenini *sensu* HANSEN (1991) was included, restricting the possible position of *Paracymus* in the resulting tree: when the root is excluded, the Laccobiini is the only other tribe included in the analysis other than the in-group taxa of Anacaenini. For these reasons, we consider the transfer of *Paracymus* to Laccobiini by KOMAREK & BEUTEL (2007) as premature and prefer to here maintain the genus *Paracymus* in Anacaenini until its position can be clarified.

Paranacaena Blackburn, 1889 = *Anacaena* Thomson, 1859

Synonymized by KOMAREK (2007: 157)

Comments. *Paranacaena* was found polyphyletic and moreover nested in the *Anacaena* clade in the phylogenetic analysis performed by KOMAREK & BEUTEL (2007), but was not officially synonymized with *Anacaena* in the paper as the type species of *Paranacaena* was not included into the analysis (see also KOMAREK & BEUTEL 2007: 223). In spite of that, KOMAREK (2007: 147) considered the synonymy as already proposed as he wrote that 'in a recent phylogenetic study (Komarek & Beutel 2006 [*sic!*]) *Paranacaena* and *Gentilina* were synonymized with *Anacaena*.' Even though the synonymy of *Paranacaena* with *Anacaena* was therefore never formally proposed, the type species of *Paranacaena*, *Paracymus lindi* Blackburn, 1889, was transferred to *Anacaena* by KOMAREK (2007: 157) and this transfer has to be formally understood as the synonymization of *Paranacaena* with *Anacaena*.

Protistolophus Short, 2010 – Hydrophilidae: Hydrophilinae: Hydrophilini (Venezuela)

Quasiparacymus Marjanian, 2009, **syn. nov.** = *Paracymus* Thomson, 1867

Comments. The subgenus *Quasiparacymus* was erected for two Palaearctic species of *Paracymus*, *P. chalceolus* (Solsky, 1874) (type species) and *P. scutellaris* (Rosenhauer, 1856), based on the characters of mouthparts, mesoventrite and abdominal segments. By including *P. scutellaris* into this new subgenus, it is however automatically becoming the junior synonym of *Paracymorphus* Kuwert, 1888, which is now considered as a synonym

of *Paracymus* (see ORCHYMONT 1937: 251) [the type species of *Paracymorphus* is *P. globuloides* Kuwert, 1888, now considered as a synonym of *Paracymus scutellaris*]. In the phylogenetic analysis performed by KOMAREK & BEUTEL (2007), both *P. chaldeus* and *P. scutellaris* are nested deeply inside the *Paracymus* clade and do not even form a monophyletic clade. Hence, we follow the opinion of ORCHYMONT (1937) and keep *Paracymorphus* (and therefore also *Quasiparacymus*) as a junior synonym of *Paracymus*.

Sphaerocetum Fikáček, 2010 – Hydrophilidae: Sphaeridiinae: Protosternini (Malaysia)

Tobochares Short & García, 2007 – Hydrophilidae: Hydrophilinae: Acidocerini (Venezuela)

New species-group names and nomenclatural acts

Family Helophoridae

Helophorus Fabricius, 1775

apfelbecki Knisch, 1910

Restored from synonymy with *H. nivalis* Giraud, 1852 by ANGUS (2009: 1).

atlantis Angus & Aouad, 2009

Helophorus atlantis Angus & Aouad, 2009: 295. – Morocco, Meknès-Tafilalet region, Ifrane.

Distribution. Morocco.

Note. The species was not explicitly placed into a subgenus, but its assignment to the *H. minutus* species complex clearly places it into the subgenus *Rhopalohelophorus* Kuwert, 1886.

schoedli Angus, 2007

Helophorus (Rhopalohelophorus) schoedli Angus, 2007: 143. – USA, New York State, Ithaca, Stewart Park, lower course of Fall Creek.

Distribution. USA (New York).

thauma Angus & Toledo, 2010

Helophorus (s. str.) *thauma* Angus & Toledo, 2010: 107 – Italy, Provincia di Parma, Torrile.

Distribution. Italy.

turca İncekara, 2008

Helophorus (Orphelophorus) turca İncekara, 2008: 421 – Turkey, Giresun Province, Aksu Yaylasi, Essek Meydani near Istanbul Suyu, 3000 m a.s.l.

Distribution. Turkey.

Note. The species was placed in the subgenus *Orphelophorus*, but no reasons were given to justify this placement. The species belongs more probably to the subgenus *Transithelophorus* according to the opinion of R. B. Angus (pers. comm. 2010).

Family Georissidae

Georissus Latreille, 1809

amrishi Makhan, 2009

Georissus amrishi Makhan, 2009a: 1. – Suriname, Brokopondo district [without detailed locality data].

Distribution. Suriname.

Note. The species was not placed in any subgenus in the original description. Based on the habitus photograph, the similarity with *G. humeralis* as well as on the absence of other subgenera in the New World, the species should most probably belong to the subgenus *Georissus* s. str.

chameleo Fikáček & Trávníček, 2009

Georissus (Neogeorissus) chameleo Fikáček & Trávníček, 2009: 145. – United Arab Emirates, Sharjah-Khor Kalba, near tunnel, 24°59'N 56°09'E.

Distribution. United Arab Emirates.

persicus Fikáček & Falamarzi, 2010

Georissus (Neogeorissus) persicus Fikáček & Falamarzi, 2010: 108. – Iran, Khuzestan Province, Hosseiniyeh, Bala Rud valley, 28 km NNW of Andimeshk, 32°41'N 48°16'E, 360 m a.s.l.

Distribution. Iran.

Family Hydrochidae

***Hydrochus* Leach, 1817**

farsicus Hidalgo-Galiana, Jäch & Ribera, 2010

Hydrochus farsicus Hidalgo-Galiana, Jäch & Ribera, 2010: 61. – Iran, Fars Province, Sepidan.

Distribution. Iran.

angustatus bicolor Rey, 1885 = *smaragdineus* Fairmaire, 1879

Synonymized by HIDALGO-GALIANA et al. (2010: 64).

Family Hydrophilidae

Subfamily Hydrophilinae

Tribe Acidocerini stat. nov.

***Chasmogenus* Sharp, 1882**

balkei Short, 2010

Chasmogenus balkei Short, 2010b: 301. – Fiji, Vanua Levu, near Dawara, 100 m.

Distribution. Fiji.

punctulatus Short, 2010

Chasmogenus punctulatus Short, 2010b: 303. – Fiji, Viti Levu, Nadarivatu, 650 m.

Distribution. Fiji.

rhodesiensis Hebauer, 2006

Chasmogenus rhodesiensis Hebauer, 2006b: 18. – Zambia, Copperbelt, W of Kapiri Mposhi.

Distribution. Zambia.

***Enochrus* Thomson, 1859**

andinus (García, 2000) **comb. nov.**

Guaramacalus andinus García, 2000: 227.

Note. The new combination is proposed herein due to the synonymy of *Guaramacalus* with *Hugoscottia* (see above).

barituensis Fernandez, 2006

Enochrus (Methydus) barituensis Fernandez, 2006: 280. – Argentina, Salta province, Parque Nacional Baritú, Arroyo Arrasallal.

Distribution. Argentina, Bolivia, Venezuela.

cheesemanae Balfour-Browne, 1939 = *nigropiceus* (Motschulsky, 1861)

Synonymized by SHORT (2010b: 310).

emeritensis (García, 2000) **comb. nov.**

Guaramacalus emeritensis García, 2000: 230.

Note. The new combination is proposed herein due to the synonymy of *Guaramacalus* with *Hugoscottia* (see above).

fijiensis Short, 2010

Enochrus (Methydus) fijiensis Short, 2010b: 306. – Fiji, Vanua Levu, near Dawara, 100 m.

Distribution. Fiji.

liangi Jia & Zhao, 2007

Enochrus (Hydatotrephis) liangi Jia & Zhao, 2007: 252 (description), 255 (holotype depository). – China, Guizhou, Leigongshan

Distribution. China (Guizhou).

Note. A more detailed redescription in English was published by JIA & WANG (2010).

pallidus (García, 2000) **comb. nov.**

Gemelus pallidus García, 2000: 224.

Note. The new combination is proposed herein due to the synonymy of *Gemelus* with *Methydus* (see above).

pseudesuriens Jia & Wang, 2010

Enochrus (Methydus) pseudesuriens Jia & Wang, 2010: 377. – China, Hainan province, Sanya.

Distribution. China (Hainan).

robustus Fernandez, 2006

Enochrus (Methydus) robustus Fernandez, 2006: 281. – Argentina, Salta, Parque Nacional Baritú, Yaculiba.

Distribution. Argentina.

Helobata* Bergroth, 1888**aschnakiranae*** Makhan, 2007

Helobata aschnakiranae Makhan, 2007a: 1. – Suriname, Commwijn District.

Distribution. Suriname.

soesilae Makhan, 2007

Helobata soesilae Makhan, 2007a: 3. – Suriname, Nieuw Amsterdam.

Distribution. Suriname.

Helochares* Mulsant, 1844**bilardoii*** Hebauer, 2009

Helochares (Hydrobaticus) bilardoii Hebauer, 2009: 4. – Gabon, Monts de Cristal National Park, Andok Village, Foula.

Distribution. Gabon.

kerstinneumanni Hebauer, 2009

Helochares (Hydrobaticus) kerstinneumanni Hebauer, 2009: 4 – Gabon, ‘Makokou Riv. Ivindo Chutes Kongou’

Distribution. Gabon.

obliquus Mart, İncekara, & Karaca, 2010

Helochares obliquus Mart, İncekara, & Karaca, 2010: 299. – Turkey, Ordu Province, Mesudiye, Lake Ulugöl, 40°24'N 37°49'E, 1605 m a.s.l.

Distribution. Turkey.

Note. The species was not explicitly assigned to a subgenus in the original description. It is extremely similar to *Helochares* (s. str.) *obscurus* (Müller, 1776) and should be therefore without any doubt placed into the subgenus *Helochares* s. str.

opacus Hebauer, 2009

Helochares (Hydrobaticus) opacus Hebauer, 2009: 5. – Gabon, Monts de Cristal National Park, Asseng Assala Village.

Distribution. Gabon.

silvester Hebauer, 2009

Helochares (Hydrobaticus) silvester Hebauer, 2009: 5. – Republic of the Congo, Brazzaville, d’Odzala Mboko National Park.

Distribution. Republic of the Congo.

subseriatus Hebauer, 2009

Helochares (Hydrobaticus) subseriatus Hebauer, 2009: 5. – Gabon, Plateaux Batéké National Park.

Distribution. Gabon.

Megagraphydrus* Hansen, 1999**luteilateralis*** Minoshima & Fujiwara, 2009

Megagraphydrus luteilateralis Minoshima & Fujiwara, 2009: 55. – Japan, Okinawa, Iriomote-jima Island, Shirahama, 24°21'59"N 123°45'22"E.

Distribution. Japan (Okinawa).

puzhelongi Jia, 2010

Megagraphydrus puzhelongi Jia, 2010: 65. – China, Jiangxi, Shangrao, Sanqingshan mount, Upper Xinjiang river.

Distribution. China (Jiangxi).

***Tobochares* Short & García, 2007**

Tobochares Short & García, 2007: 2 – Type species: *Tobochares sulcatus* Short & García, 2007 (original designation). Gender: masculine.

sulcatus Short & García, 2007

Tobochares sulcatus Short & García, 2007: 4. – Venezuela, Amazonas, Tobogan de la Selva, margin of Rio Coromoto, 5°23.207'N 67°36.922'W, ca. 125 m a.s.l.

Distribution. Venezuela.

Tribe Anacaenini

Anacaena Thomson, 1859

- = *Enigmata* Hansen, 1999
- = *Hebauerina* Gentili, 2002
- = *Gentilina* Hebauer, 2003
- = *Grodum* Hansen, 1999
- = *Omniops* Perkins & Short, 2004
- = *Paranacaena* Blackburn, 1888

aiyura Komarek, 2009

Anacaena aiyura Komarek, 2009: 199. – Papua New Guinea, Eastern Highlands, Aiyura.

Distribution. Papua New Guinea.

alticola (Gentili, 2002)

New combination proposed by KOMAREK (2009: 200) [from *Paranacaena*].

bacchusi (Gentili, 2002) = *gilva* (Gentili, 1996)

Transferred from *Paranacaena* to *Anacaena* and synonymized by KOMAREK (2007: 159).

balkei (Gentili, 1993)

New combination proposed by KOMAREK (2009: 201) [from *Paranacaena*].

boukali Komarek, 2006

Anacaena boukali Komarek, 2006: 288. – India, Kerala, Kallar Bridge Road, 30 km NNE of Trivandrum, Kaller Bridge (village).

Distribution. India (Kerala).

brevis Komarek, 2009

Anacaena brevis Komarek, 2009: 203. – Papua New Guinea, Morobe, Bundun.

Distribution. Papua New Guinea.

brunnea (Hansen, 1999)

New combination proposed by KOMAREK & BEUTEL (2007: 223) [from *Enigmata*].

bunduna Komarek, 2009

Anacaena bunduna Komarek, 2009: 204. – Papua New Guinea, Morobe, Bundun.

Distribution. Papua New Guinea.

colorata (Gentili, 1996)

New combination proposed by KOMAREK (2009:205) [from *Paranacaena*].

convexa (Gentili, 1996)

New combination proposed by KOMAREK (2009:207) [from *Paranacaena*].

endroedyi (Hansen, 1999)

New combination proposed by KOMAREK (2009: 221) [from *Grodum*].

eremita (Blackburn, 1896)

New combination proposed by KOMAREK (2007: 149) [transferred from *Paranacaena*].

eremitoides Komarek, 2007

Anacaena eremitoides Komarek, 2007: 150. – Australia, Queensland, Cunninghams's Gap.

Distribution. Australia.

fasciata (Perkins & Short, 2004) = *praetexta* (Gentili, 1996)

Transferred from *Omnioops* to *Anacaena* and synonymized by KOMAREK (2009: 231).

foveata (Komarek, 2005)

New combination proposed by KOMAREK & BEUTEL (2007: 223) [from *Enigmata*].

gentilii Komarek, 2009

Replacement name for *Paranacaena maculata* Gentili, 2002 (secondary junior homonym of *Anacaena maculata* Pu, 1964) due to the synonymization of *Paranacaena* with *Anacaena* by KOMAREK (2007)).

gilva (Gentili, 1996)

New combination proposed by KOMAREK (2009: 209) [from *Paranacaena*].

hanseni (Perkins & Short, 2004) = *lineata* (Gentili, 1996)

Transferred from *Omnioops* to *Anacaena* and synonymized by KOMAREK (2009: 214).

hebaueri (Gentili, 2002)

New combination proposed by KOMAREK (2009: 211) [from *Paranacaena*].

hibrida (Gentili, 2002) = *littoralis* (d'Orchymont, 1942)

Transferred from *Paranacaena* to *Anacaena* and synonymized by KOMAREK (2007: 159).

horni (Blackburn, 1896)

New combination proposed by KOMAREK (2007: 154) [transferred from *Paranacaena*].

humilis d'Orchymont, 1942

New combination proposed by KOMAREK (2009: 212) [transferred from *Paranacaena*].

jaechi Komarek, 2010

Anacaena jaechi Komarek, 2010b: 114. – Indonesia, South Sulawesi, surroundings of Malino, 700 m a.s.l.

Distribution. Indonesia (Sulawesi).

jaegeri Komarek, 2006

Anacaena jaegeri Komarek, 2006: 289. – Nepal, Western Region, Gandaki Zone, Kaski District, Telbrung Danda (mountain), stream near Ganpokhara (village, 30 km NE of Pokhara), 2000 m.

Distribution. Nepal.

javana Komarek, 2010

Anacaena javana Komarek, 2010b: 115. – Indonesia, West Java, Banten Province, Tangerang City, Cibodas.

Distribution. Indonesia (Java)

laevoides Komarek, 2006

Anacaena laevoides Komarek, 2006: 294. – India: Meghalaya, West Garo Hills District, Nokrek National Park.

Distribution. India (Meghalaya, Uttarkhand).

lindi (Blackburn, 1889)

New combination proposed by KOMAREK (2007: 157) [from *Paranacaena*].

lineata (Gentili, 1996)

New combination proposed by KOMAREK (2009: 214) [from *Paranacaena*].

littoralis d'Orchymont, 1942

New combination proposed by KOMAREK (2007: 159) [from *Paranacaena*].

lucida (Gentili, 1996)

New combination proposed by KOMAREK (2009: 216) [from *Paranacaena*].

madangi (Gentili, 2002)

New combination proposed by KOMAREK (2009: 218) [from *Paranacaena*].

minja Komarek, 2009

Anacaena minja Komarek, 2009: 220. – Papua New Guinea, Western Highlands, 5 km SE Minj, Mondmill.

Distribution. Papua New Guinea.

nanica (Gentili, 2002)

New combination proposed by KOMAREK & BEUTEL (2007: 223) [from *Hebauerina*].

nitens (Gentili, 1993)

New combination proposed by KOMAREK & BEUTEL (2007: 223) [from *Gentilina*].

novacaledonica Komarek, 2010

Anacaena novacaledonica Komarek, 2010a: 273. – New Caledonia, North Province, Aoupinié, 15 km SW of Ponérihouen, ca. 500–700 m a.s.l.

Distribution. New Caledonia.

obscura (Gentili, 1996)

New combination proposed by KOMAREK (2009: 221) [from *Paranacaena*].

occulta Komarek, 2009

Anacaena occulta Komarek, 2009: 224. – Indonesia, Papua, Jayawijaya, Angguruk.

Distribution. Indonesia (Papua).

orchymonti Komarek, 2010

Anacaena orchymonti Komarek, 2010b: 120. – Indonesia, Java Tengah Province, Saragan.

Distribution. Indonesia (Java).

ovatides Newton, 2011, **nom. nov.**

Paranacaena ovata Gentili, 2002: 83.

Anacaena ovata (Gentili, 2002): new combination proposed by KOMAREK (2009: 225).

Note. Due to the synonymy of *Paranacaena* with *Anacaena*, *Paranacaena ovata* Gentili, 2002 becomes a secondary junior homonym of *Anacaena ovata* (Reiche, 1861), which is now a synonym of *Anacaena limbata* (Fabricius, 1792). To solve this homonymy, a new replacement name is proposed here for *Anacaena ovata* (Gentili, 2002). The homonymy was found during the preparation of the Catalogue of the Staphyliniformia by A. Newton and the replacement name hence follows the same derivation as other new substitute names in a contribution to the nomenclature of the staphyliniform beetles by NEWTON (2011) – it consists of the stem of the name to be replaced, plus the Greek suffix *-ides*, meaning ‘son of’ or ‘descendant of’. The new name is a noun in apposition.

pallens (Gentili, 1996)

New combination proposed by KOMAREK (2009: 227) [from *Paranacaena*].

personata (Gentili, 1996)

New combination proposed by KOMAREK (2009: 228) [from *Paranacaena*].

pilosa (Gentili, 1996)

New combination proposed by KOMAREK (2009: 229) [from *Paranacaena*].

plana (Gentili, 2002) = *praetexta* (Gentili, 1996)

Transferred from *Paranacaena* to *Anacaena* and synonymized by KOMAREK (2009: 231).

praetexta (Gentili, 1996)

New combination proposed by KOMAREK (2009: 229) [from *Paranacaena*].

rara Komarek, 2010

Anacaena rara Komarek, 2010a: 274. – New Caledonia, North Province, 20–30 km W Poindimié, first pass-road to Pomed', 350 m a.s.l.

Distribution. New Caledonia.

rotunda (Gentili, 2002)

New combination proposed by KOMAREK (2009: 233) [from *Paranacaena*].

rubra (Gentili, 2002)

New combination proposed by KOMAREK (2009: 234) [from *Paranacaena*].

setifera Komarek, 2006

Anacaena setifera Komarek, 2006: 303. – India: Karnataka, Kodagu District, near Kakkabe, 900–1200 m a.s.l.

Distribution. India (Karnataka).

silvatica Komarek, 2010

Anacaena silvatica Komarek, 2010a: 275. – New Caledonia, North Province, Hienghène, Roche d'Ouaieme.

Distribution. New Caledonia.

spurca (Gentili, 2002) = *obscura* (Gentili, 1996)

Transferred from *Paranacaena* to *Anacaena* and synonymized by KOMAREK (2009: 221).

striata (Hansen, 1999)

New combination proposed by KOMAREK & BEUTEL (2007: 223) [from *Grodum*].

striatides Newton, 2011, **nom. nov.**

Paranacaena striata Gentili, 2002: 87.

Anacaena striata (Gentili, 2002): new combination proposed by KOMAREK (2009: 235).

Note. Due to the synonymies of *Paranacaena* and *Grodum* with *Anacaena*, both *Grodum striatum* Hansen, 1999 and *Paranacaena striata* Gentili, 2002 were transferred to *Anacaena* and the latter became a junior secondary homonym of the former. To solve this homonymy, a new replacement name is proposed here for *Anacaena striata* (Gentili, 2002). The homonymy was found during the preparation of the Catalogue of the Staphyliniformia by A. Newton and the replacement name hence follows the same derivation as other new substitute names in a contribution to the nomenclature of the staphyliniform beetles by NEWTON (2011) – it consists of the stem of the name to be replaced, plus the Greek suffix *-ides*, meaning 'son of' or 'descendant of'. The new name is a noun in apposition.

sublineata (Blackburn, 1889)

New combination proposed by KOMAREK (2007: 162) [from *Paranacaena*].

sucinacia (Gentili, 2002)

New combination proposed by KOMAREK (2009: 236) [from *Paranacaena*].

sulawesica Komarek, 2010

Anacaena sulawesica Komarek, 2010b: 121. – Indonesia, North Sulawesi, surroundings of Modinding, NE of Kotamobagu.

Distribution. Indonesia (Sulawesi).

tasmaniana Gentili, 2002 = *sublineata* (Blackburn, 1889)

Transferred from *Paranacaena* to *Anacaena* and synonymized by KOMAREK (2007: 162).

testacea (Gentili, 1996)

New combination proposed by KOMAREK (2009: 237) [from *Paranacaena*].

tetrops (Gentili, 2002) = *obscura* (Gentili, 1996)

Transferred from *Paranacaena* to *Anacaena* and synonymized by KOMAREK (2009: 221).

violacea (Gentili, 1996)

New combination proposed by KOMAREK (2010a: 276) [from *Paranacaena*].

wattsi (Gentili, 1993)

New combination proposed by KOMAREK (2007: 164) [from *Paranacaena*].

***wewalkai* Komarek, 2010**

Anacaena wewalkai Komarek, 2010a: 281. – New Caledonia, North Province, Aoupinié, 15 km SW Ponérihouen, ca. 500–700 m a.s.l.

Distribution. New Caledonia.

Notionotus* Spangler, 1972**dilucidus* Queney, 2010**

Notionotus dilucidus Queney, 2010b: 130. – French Guiana: Cascades de Fourgassié. [Not ‘Guyana’, as indicated in QUENEY (2010b)]

Distribution. French Guiana.

***lohezi* Queney, 2010**

Notionotus lohezi Queney, 2010b: 135. – French Guiana: Régina, Patawa. [Not ‘Guyana’, as indicated in QUENEY (2010b)]

Distribution. French Guiana.

***shorti* Queney, 2010**

Notionotus shorti Queney, 2010b: 133. – Guyana: Mazaruni-Potaro District, Takutu Mountains.

Distribution. Guyana.

Notohydrus* Balfour-Browne, 1939**shorti* Gentili, 2006**

Notohydrus shorti Gentili, 2006a: 179. – Australia, Australian Capital Territory, Namadai National Park, Gibraltar Falls, Gibraltar Creek.

Distribution. Australia (Australian Capital Territory, New South Wales).

***Paracymus* Thomson, 1867**

= *Quasiparacymus* Marjanian, 2009: 124. – Type species: *Hydrobius chalceolus* Solsky, 1874 (original designation).

– Synonymized in this paper (see above).

***metallescens* Fauvel, 1883**

Paracymus metallescens Fauvel, 1883: 352. – New Caledonia, Tonghoué (lectotype designated by GENTILI (2000: 102)).

Distribution. New Caledonia.

Note. The species was restored from synonymy with *Paracymus pygmaeus* (MacLeay, 1871) by GENTILI (2010: 259).

Tribe Berosini

***Allocotocerus* Kraatz, 1883**

= *Aschnaia* Makhan, 2007b: 1. – Type species: *Ashnaia soesolae* Makhan, 2007 (by monotypy). – Synonymized in this paper (see above).

***soesilae* (Makhan, 2007) comb. nov.**

Aschnaia soesilae Makhan, 2007b: 1 – India, Wyanad, Kerala.

Distribution. India (Kerala).

Note. The new combination is proposed herein due to the synonymy of *Aschnaia* with *Allocotocerus* (see above).

***Berosus* Leach, 1817**

***atlanticus* Queney, 2007**

Berosus atlanticus Queney, 2007: 93. – France, La Tranche-sur-Mer, La Belle-Henriette, Vendée.

Distribution. France.

***degallieri* Queney, 2010**

Berosus degallieri Queney, 2010a: 52. – Brazil, Brasilia, 15°45'35.99"S 47°55'11.19"W, 1138 m a.s.l.

Distribution. Brazil.

***duquefi* Queney, 2006**

Berosus duquefi Queney, 2006: 457. – French Guiana, Roura, Camp Caiman, 300 m a.s.l.

Distribution. French Guiana.

***guyanensis* Queney, 2006**

Berosus guyanensis Queney, 2006: 461. – French Guiana, Iracoubo, road to Pères, savane Henri.

Distribution. French Guiana.

***nigricollis* Hebauer, 2006**

Berosus (s. str.) *nigricollis* Hebauer 2006b: 16. – Zambia, Copperbelt, W of Kapiri Mposhi.

Distribution. Republic of the Congo, Zambia.

***olivae* Queney, 2006**

Berosus olivae Queney, 2006: 459. – French Guiana, Iracoubo, road to Pères, savane Henri.

Distribution. French Guiana.

***spiniger* Queney, 2010**

Berosus spiniger Queney, 2010a: 55. – Brazil, Brasilia, 15°45'35.99"S 47°55'11.19"W, 1138 m a.s.l.

Distribution. Brazil.

***tayouanus* Ueng, Wang & Wang, 2007**

Berosus (*Enoplurus*) *salinus* Ueng, Wang & Wang, 2006: 63. – China, Taiwan, Tainan City, Shihchu Wildlife Reserve.

Berosus tayouanus Ueng, Wang & Wang, 2007: 88 (replacement name for *B. salinus* Ueng, Wang & Wang, 2006 due to its homonymy with *Berosus salinus* Fall, 1901 [= *B. metalliceps* Sharp, 1882]).

Distribution. China (Fujian, Taiwan, Zhejiang).

Hemiosus* Sharp, 1882**ater* Clarkson & Ferreira-Jr, 2009**

Hemiosus ater Clarkson & Ferreira-Jr 2009: 62. – Brazil, Rio de Janeiro, Nova Friburgo, Rio Cascatinha, 22.340408°S [sic!] 42.557367°W.

Distribution. Brazil.

***frades* Clarkson & Ferreira-Jr, 2009**

Hemiosus frades Clarkson & Ferreira-Jr 2009: 66. – Brazil, Rio de Janeiro, Rio dos Frades, 22.340408°S [sic!] 42.811028°W.

Distribution. Brazil.

***santosi* Clarkson & Ferreira-Jr, 2009**

Hemiosus santosi Clarkson & Ferreira-Jr 2009: 64. – Brazil, Minas Gerais, Lima Duarte, Parque Estadual do Ibitipoca, Lago dos Espelhos, 21.697243°S 43.879448°W.

Distribution. Brazil.

***selva* Short, 2006**

Hemiosus selva Short, 2006 in SHORT & TORRES (2006: 6). – Costa Rica, Heredia Province, La Selva Biological Station, near Puerto Viejo.

Distribution. Costa Rica.

***tarsalis* Oliva & Short, 2010**

Hemiosus tarsalis Oliva & Short, 2010: 139. – Peru, Madre de Dios, Tambopata Research Center, 13°08.305'S 69°36.502'W, 622 ft.

Distribution. Peru.

***toxillus* d'Orchymont, 1940 = *exilis* (LeConte, 1852)**

Synonymized by SHORT & TORRES (2006: 8).

Tribe Chaetarthriini

Chaetarthria* Stephens, 1835**incisa* Fikáček, 2010**

Chaetarthria incisa Fikáček, 2010a: 264. – New Caledonia, Grande Terre, North Province, Aoupinié, 21°11'S 165°17'E, 800 m a.s.l.

Distribution. New Caledonia.

***Micramphiops* Short, 2009**

Micramphiops Short, 2009a: 189. – Type species: *Micramphiops newtoni* Short, 2009 (original designation). Gender: masculine.

***newtoni* Short, 2009**

Micramphiops newtoni Short, 2009a: 192. – Madagascar, Antsiranana, Manongarivo, 14°2.72'S 48°24.06'E.

Distribution. Madagascar.

Guyanobius* Spangler, 1986**lacuniventris* Gustafson & Short, 2010**

Guyanobius lacuniventris Gustafson & Short, 2010b: 253. – Venezuela, Trujillo state, ca. 3 km NE of Laguna Aqua Negro, 9°19.371'N 70°9.303'W, 1770 m a.s.l.

Distribution. Venezuela.

queneyi Gustafson & Short, 2010*Guyanobius queneyi* Gustafson & Short, 2010b: 254. – French Guiana, Roura, Kaw-Patawa road.**Distribution.** French Guiana, Suriname.Tribe Hydrobiusini **stat. nov.****Hydrobius** Leach, 1815**orientalis** Jia & Short, 2009*Hydrobius orientalis* Jia & Short, 2009: 26. – China, Guangdong, Gaoming, town of Yangmei.**Distribution.** China (Guangdong).**Limnoxenus** Motschulsky, 1853**kauaiensis** Short & Liebherr, 2007*Limnoxenus kauaiensis* Short & Liebherr, 2007: 612. – USA, Hawaiian Islands, Kauai, summit of Mt. Waialeale, 22°04.355'N 159°30.054'W, 1520 m a.s.l.**Distribution.** Hawaiian Islands.**namolokama** Short & Liebherr, 2007*Limnoxenus namolokama* Short & Liebherr, 2007: 617. – USA, Hawaiian Islands, Kauai, summit of Mt. Namolokama, 1325 m a.s.l.**Distribution.** Hawaiian Islands.**oahuensis** Short & Liebherr, 2007*Limnoxenus oahuensis* Short & Liebherr, 2007: 616. – USA, Hawaiian Islands, Oahu, Koolau Mountains, Eleaoumassif, 805 m a.s.l.**Distribution.** Hawaiian Islands.**punctatostriatus** Short & Liebherr, 2007*Limnoxenus punctatostriatus* Short & Liebherr, 2007: 615. – USA, Hawaiian Islands, Kauai, Kokee State Park, Pihea Trail, ca. 1200 m a.s.l.**Distribution.** Hawaiian Islands.**waialeale** Short & Liebherr, 2007*Limnoxenus waialeale* Short & Liebherr, 2007: 614. – USA, Hawaiian Islands, Kauai, summit of Mt. Waialeale, 22°04.354'N 159°30.056'W, 1520 m a.s.l.**Distribution.** Hawaiian Islands.

Tribe Hydrophilini

Brownephilus Mouchamps, 1959Elevated to generic rank from a subgenus of *Hydrobiomorpha* Blackburn, 1888 by SHORT (2010a: 30).**levantinus** (Balfour-Browne, 1939)Transferred from the genus *Hydrobiomorpha* to *Brownephilus* due to the elevation of the latter to the generic level.**major** (İncerkara, Mart, Polat & Karaca, 2009)*Hydrochara major* İncerkara, Mart, Polat & Karaca, 2009: 318. – Turkey, Samsun, Ondokuzmayıs, Fish Lake, 41°35'10"N, 36°06'42"E, 0 m a.s.l.*Brownephilus major*: new combination proposed by DARILMAZ et al. (2010: 14).**Distribution.** Turkey.

Hydrobiomorpha* Blackburn, 1888**celata namibiensis* Hebauer, 2006**

Hydrobiomorpha (s. str.) *celata namibiensis* Hebauer, 2006d: 36. – Namibia, Kavengo, Mahango.

Distribution. Namibia.

***davidsoni* Hebauer, 2006**

Hydrobiomorpha (s. str.) *davidsoni* Hebauer, 2006d: 35. – Cameroon, Batanga.

Distribution. Cameroon.

***perssoni* Hebauer, 2006**

Hydrobiomorpha (s. str.) *perssoni* Hebauer, 2006b: 14. – Guinea Bissau, Cacheu, 5 km W Bula.

Distribution. Benin, Guinea Bissau.

***Protistolophus* Short, 2010**

Protistolophus Short, 2010a: 29. – Type species: *Protistolophus spangleri* Short, 2010 (original designation).

Gender: masculine.

***spangleri* Short, 2010**

Protistolophus spangleri Short, 2010a: 30. – Venezuela, Amazonas, Cerro de la Neblina, 1 km S basecamp, 0°50'N 66°10'W, 140 m a.s.l.

Distribution. Venezuela.

Tropisternus* Solier, 1882**phyllisae* Spangler & Short, 2008**

Tropisternus (*Pristoternus*) *phyllisae* Spangler & Short, 2008: 65. – Suriname, Krakka-Phedra Road.

Distribution. Suriname.

***richmondi* Spangler & Short, 2008**

Tropisternus (s. str.) *richmondi* Spangler & Short, 2008: 67. – Bahama Islands, Bells Island, Exuma Cays.

Distribution. Bahama Islands.

***surinamensis* Spangler & Short, 2008**

Tropisternus (*Pristoternus*) *surinamensis* Spangler & Short, 2008: 67. – Suriname, Krakka-Phedra Road.

Distribution. Suriname.

Tribe Laccobiini

Laccobius* Erichson, 1837**cretaeus* Gentili, 1975**

Elevated from a subspecies of *L. (Microlaccobius) gracilis* Motschulsky, 1855 to the species level by GENTILI & CSABAI (2009: 82).

***eximius* Kuwert, 1890**

Laccobius eximius Kuwert, 1890: 71. – Saudi Arabia, Hijaz (lectotype designation: GENTILI & CHIESA (1976)).

Distribution. Saudi Arabia.

Note. Restored from the synonymy with *Laccobius (Microlaccobius) precipuus* Kuwert, 1890 by FIKÁČEK et al. (2010).

***flaveolus* (Hebauer & Wang, 1998) comb. nov.**

Oocyclus flaveolus Hebauer & Wang, 1998: 41.

Note. We have examined the holotype of this species and found that it is actually a member of the genus *Laccobius* (as evidenced by six exposed abdominal ventrites as well as very small size). We are therefore transferring the species from the genus *Oocyclus* to the subgenus *Cyclolaccobius* Gentili, 1991 of the genus *Laccobius*.

***guttalis* Gentili & Fikáček, 2009**

Laccobius (Glyptolaccobius) guttalis Gentili & Fikáček, 2009: 611. – Nepal, Bagmati, Sindhupalchok, Sarmanang, 2500 m a.s.l.

Distribution. Nepal.

***hanka* Gentili & Fikáček, 2009**

Laccobius (Glyptolaccobius) hanka Gentili & Fikáček, 2009: 612. – India, Arunachal Pradesh, 1 km N of Bhulukpong, 27°01'21"N 92°38'06"E, 240 m a.s.l.

Distribution. India (Arunachal Pradesh).

***harteni* Fikáček, Gentili & Short, 2010**

Laccobius (Microlaccobius) harteni Fikáček, Gentili & Short, 2010: 142. – United Arab Emirates, Bithnah, 25°11'N 56°14'E.

Distribution. United Arab Emirates.

***josefi* Gentili & Fikáček, 2009**

Laccobius (Glyptolaccobius) josefi Gentili & Fikáček, 2009: 615. – India, Arunachal Pradesh, 1 km N of Bhulukpong, 27°01'21"N 92°38'06"E, 240 m a.s.l.

Distribution. India (Arunachal Pradesh).

manalicus* Short & Fikáček, 2011, *nom. nov.

Oocyclus inermis Hebauer & Wang, 1998: 42 [here transferred from *Oocyclus* to *Laccobius*].

Note. We have examined the holotype of this species and found that it is actually a member of the genus *Laccobius* (as evidenced by six exposed abdominal ventrites as well as very small size). We are therefore transferring the species from the genus *Oocyclus* to the subgenus *Cyclolaccobius* of the genus *Laccobius*. As *Laccobius inermis* (Hebauer & Wang, 1998) comb. nov. becomes a secondary homonym of *Laccobius (Cyclolaccobius) inermis* Gentili, 1995 by this transfer, we are proposing here a new replacement name for it, *L. manalicus* nom. nov. The name is an adjective derived from the type locality of the species, Manali.

***masatakai* Kamite, Ogata & Hikida, 2007**

Laccobius (Cyclolaccobius) masatakai Kamite, Ogata & Hikida, 2007: 35. – Japan, Honshu Island, Ibaraki Prefecture, Hitachi-shi, Ohmika-machi, Kobodihana.

Distribution. Japan.

***moriyai* Kamite, Ogata & Hikida, 2007**

Laccobius (Glyptolaccobius) moriyai Kamite, Ogata & Hikida, 2007: 36. – Japan, Honshu Island, Yamagata Prefecture, Asahi-Mura, Arasawa.

Distribution. Japan.

***pluvialis* Gentili, 2006**

Laccobius (Glyptolaccobius) pluvialis Gentili, 2006b: 68. – India, Meghalaya State, SW of Cherrapunjee, 25°13'–14'N 91°40'E, 900 m a.s.l.

Distribution. India (Meghalaya).

persicus Gentili, 1974

Elevated from a subspecies of *L. (Microlaccobius) gracilis* Motschulsky, 1855 to the species level by DARILMAZ & KIYAK (2010: 66).

serratus Gentili, 2010

Laccobius (Yateberosus) serratus Gentili, 2005: 321 (unavailable, type material not listed).

Laccobius (Yateberosus) serratus Gentili, 2010: 290. – New Caledonia, South Province, Rivière Bleue Provincial Park, 500–600 m a.s.l.

Distribution. New Caledonia.

shorti Gentili, 2006

Laccobius (Glyptolaccobius) shorti Gentili, 2006b: 71. – Thailand, Kanchanaburi, Amphur Tong Pha Phum, 500 m a.s.l.

Distribution. Thailand.

silvester Gentili, 2006

Laccobius (Glyptolaccobius) silvester Gentili, 2006b: 72. – India, Uttaranchal [= Uttarkhand], W. Loharket Village, 30 km N. Bageshwar, 1800–1900 m a. s. l.

Distribution. India (Uttarkhand).

sipeki Gentili & Fikáček, 2009

Laccobius (Glyptolaccobius) sipeki Gentili & Fikáček, 2009: 618. – India, Meghalaya, Khasi Hills, Laitkynsew, 11 km SW of Cherrapunjee.

Distribution. India (Meghalaya).

wewalkai Gentili, 2010

Laccobius (Yateberosus) wewalkai Gentili, 2005: 322 (unavailable, type material not listed).

Laccobius (Yateberosus) wewalkai Gentili, 2010: 293. – New Caledonia, South Province, Dumbéa, 150 m a.s.l.

Distribution. New Caledonia.

***Oocyclus* Sharp, 1882**

= *Beralitra* d'Orchymont, 1919

andinus Short & García, 2010

Oocyclus andinus Short & García, 2010: 7. – Venezuela, Merida State, Cascada de Bailadores, 8°14.397'N 71°48.580'W, 1950 m a.s.l.

Distribution. Venezuela.

armstrongorum Short, 2009

Oocyclus armstrongorum Short, 2009b: 626. – India, Meghalaya, Khasi Hills, Laitkynsew, 11 km SW of Cherrapunjee, 25°13'N 91°39'E, 810 m a.s.l.

Distribution. India (Meghalaya).

bolivari Short & García, 2010

Oocyclus bolivari Short & García, 2010: 10. – Venezuela, Bolivar, Auyan tepui, 5°46'N 62°32'W, 2178 m a.s.l.

Distribution. Venezuela.

coromoto Short & García, 2010

Oocyclus coromoto Short & García, 2010: 11. – Venezuela, Amazonas, Tobogan de la Selva.

Distribution. Venezuela.

floccus Short & García, 2010

Oocyclus floccus Short & García, 2010: 12. – Venezuela, Bolivar, Rio Toron, 12 km N of road to Kavanayen, 5°43'30.9"N 61°36'35.8"W, 1385 m a.s.l.

Distribution. Venezuela.

galbus Short & García, 2010

Oocyclus galbus Short & García, 2010: 13. – Venezuela, Zulia, Perijá National Park, Toromo, SW of Machiques, 10°02.962'N 72°42.615'W, 432 m a.s.l.

Distribution. Venezuela.

iguazu (Oliva, 1996)

New combination proposed by SHORT & GARCÍA (2010: 6) due to the synonymy of *Beralitra* with *Oocyclus*.

luteus García-Hernandez, 2009

Oocyclus luteus García-Hernandez, 2009: 250. – Colombia, Quindio, Pijao, La Playa.

Distribution. Colombia.

madidus Short, 2009

Oocyclus madidus Short, 2009b: 628. – India, Meghalaya, Khasi Hills, Laitkynsew, 11 km SW of Cherrapunjee, 25°13'N 91°39'E, 810 m a.s.l.

Distribution. India (Meghalaya).

meridensis Short & García, 2010

Oocyclus meridensis Short & García, 2010: 15. – Venezuela, Merida, ca. 1 km E. Jaji. 8°34.489'N 71°20.165'W; 1833 m a.s.l.

Distribution. Venezuela.

morgani García-Hernandez, 2009

Oocyclus morgani García-Hernandez, 2009: 251. – Colombia, Quindio, Calarca, La Virginia, 1700 m a.s.l.

Distribution. Colombia.

obscurus (d'Orchymont, 1919)

New combination proposed by SHORT & GARCÍA (2010: 6) due to the synonymy of *Beralitra* with *Oocyclus*.

petra Short & García, 2010

Oocyclus petra Short & García, 2010: 18. – Venezuela, Amazonas State, Tobogan de la Selva, 5°23.207'N 67°36.922'W, 125 m a.s.l.

Distribution. Venezuela.

pico Short & García, 2010

Oocyclus pico Short & García, 2010: 20. – Venezuela, Aragua, Parque Nacional Henri Pittier; road to Choroni, 10°21.070'N 67°34.920'W.

Distribution. Venezuela.

pittieri Short & García, 2010

Oocyclus pittieri Short & García, 2010: 21. – Venezuela, Aragua, Henri Pittier National Park, Rio Curucuruma, 10°21.070'N 67°34.920'W.

Distribution. Venezuela.

rupicola Minoshima, 2009

Oocyclus rupicola Minoshima, 2009: 46. – Laos, Bolikhamxai Province, 11 km Southwest by West of Ban Pakha, Route 8, 18°11.83'N 104°36.19'E, 580 m a.s.l.

Distribution. Laos.

sapphirus Short & García, 2010

Oocyclus sapphirus Short & García, 2010: 23. – Venezuela, Aragua, Henri Pittier National Park, 10°21.018'N 67°36.991'W.

Distribution. Venezuela.

trujillo Short & García, 2010

Oocyclus trujillo Short & García, 2010: 28. – Venezuela, Trujillo, E of Pampan, 9°27.795'N 70°25.136'W, 1100 m a.s.l.

Distribution. Venezuela.

zulianus Short & García, 2010

Oocyclus zulianus Short & García, 2010: 29. – Venezuela, Zulia, Perijá National Park, Toromo, 10°03.058'N 72°42.074'W, 435 m a.s.l.

Distribution. Venezuela.

Pelthydrus d'Orchymont, 1919

angulatus Bian, Schönmann & Li, 2008

Pelthydrus (s. str.) *angulatus* Bian, Schönmann & Li, 2008: 268. – China, Hainan, Wuzhishan City, Maoyang Town, 18°55'N 109°28'E, 255 m a.s.l.

Distribution. China (Hainan).

grossus Bian, Schönmann & Li, 2009

Pelthydrus grossus Bian, Schönmann, & Li, 2009: 59. – China, Yunnan, Xishuangbanna, 1500 m.

Distribution. China (Yunnan), Laos, Thailand.

Note. The species was not assigned to the subgenus in the original description, but is explicitly placed into the *P. (Globipelthydrus) jendeki* group and belongs therefore to the subgenus *Globipelthydrus* Schönmann, 1994.

longifolius Bian, Schönmann & Li, 2009

Pelthydrus longifolius Bian, Schönmann, & Li, 2009: 61. – China, Hunan, Yueyang City, Pingjiang County, ca. 290 m a.s.l.

Distribution. China (Guizhou, Hunan, Jiangxi, Fujian).

Note. The species was not assigned to the subgenus in the original description, but is explicitly placed into the *P. (Globipelthydrus) jendeki* group and belongs therefore to the subgenus *Globipelthydrus* Schönmann, 1994.

rosa Bian, Schönmann & Li, 2009

Pelthydrus rosa Bian, Schönmann, & Li, 2009: 62. – China, Hunan, Wulingyuan, N Dayong, Suoxiyu.

Distribution. China (Hunan).

Note. The species was not assigned to the subgenus in the original description, but is explicitly placed into the *P. (Globipelthydrus) jendeki* group and belongs therefore to the subgenus *Globipelthydrus* Schönmann, 1994. The species name stands evidently as the noun in apposition although it is not stated in the original description.

subgrossus Bian, Schönmann & Li, 2009

Pelthydrus subgrossus Bian, Schönmann, & Li, 2009: 60. – China, Hubei Province, Zhongjian He Nat. Res., 105 km S Enshi, Xianfeng, 650 m a.s.l.

Distribution. China (Hubei).

Note. The species was not assigned to the subgenus in the original description, but is explicitly placed into the *P. (Globipelthydrus) jendeki* group and belongs therefore to the subgenus *Globipelthydrus* Schönmann, 1994.

tongi Bian, Schönmann & Li, 2008

Pelthydrus (s. str.) *tongi* Bian, Schönmann & Li, 2008: 271. – China, Hainan, Wuzhishan City, Maoyang Town, 18 55'N 109 28'E, 255 m a.s.l.

Distribution. China (Hainan).

waltraudae Bian, Schönmann & Li, 2008

Pelthydrus (Globipelthydrus) waltraudae Bian, Schönmann & Li, 2008: 267. – China, Hainan, Wuzhishan City, Maoyang Town, 18 55'N 109 28'E, 255 m a.s.l.

Distribution. China (Hainan).

yulinensis Bian, Schönmann & Li, 2009

Pelthydrus yulinensis Bian, Schönmann & Li, 2009: 63. – China, Guangxi, Yülin, Liuwan, ca. 100 m a.s.l.

Distribution. China (Guangxi).

Note. The species was not assigned to the subgenus in the original description, but is explicitly placed into the *P. (Globipelthydrus) jendeki* group and belongs therefore to the subgenus *Globipelthydrus* Schönmann, 1994.

***Tritonus* Mulsant, 1844**

complanatus Short, 2008

Tritonus complanatus Short, 2008: 45. – Madagascar, Antsiranana, Andapa, R. Masiaposa, 700 m a.s.l.

Distribution. Madagascar.

crenulatus Short, 2008

Tritonus crenulatus Short, 2008: 48. – Madagascar, Antananarivo, Manakambahiny.

Distribution. Madagascar.

madagascarensis Short, 2008

Tritonus madagascarensis Short, 2008: 51. – Madagascar, Antsiranana, Andapa, R. Masiaposa, 700 m a.s.l.

Distribution. Madagascar.

riambavy Short, 2008

Tritonus riambavy Short, 2008: 53. – Madagascar, Fianarantsoa, Andringitra National Park.

Distribution. Madagascar.

riana Short, 2008

Tritonus riana Short, 2008: 53. – Madagascar, Pic Louis Mt., 0°33.09'S 46°58'4.91"E.

Distribution. Madagascar.

steineri Short, 2008

Tritonus steineri Short, 2008: 54. – Madagascar, Fianarantsoa province, 32 km S of Ambositra, 1400 m a.s.l.

Distribution. Madagascar.

Tribe Sperchopsini

Hydrocassis* Fairmaire, 1878**mongolica*** Liu, Ji, & Jing, 2008

Hydrocassis mongolica Liu, Ji & Jing, 2008: 175. – China, Inner Mongolia, Daqinggou Nature Reserve.

Distribution. China (Inner Mongolia).

Subfamily Sphaeridiinae

Tribe Coelostomatini

Coelostoma* Brullé, 1835**kantnerorum*** Hebauer, 2006

Coelostoma (Coelostoma) kantnerorum Hebauer, 2006b: 15. – Benin, Sontou, Department du Borgou, 55 km NNE of Parakou.

Distribution. Benin.

turnai Hebauer, 2006

Coelostoma (Lachnocoelostoma) turnai Hebauer, 2006a: 3. – China, Hubei, Dabie Shan, Wujia Shan, 31.1°N 115.8°E.

Distribution. China (Hubei).

Dactylosternum* Wollaston, 1854**bommelanum*** Hebauer, 2008

Dactylosternum bommelanum Hebauer, 2008: 50. – Indonesia, Irian Jaya, Jayawijaya Province, Bommela, 1700–1900 m a.s.l.

Distribution. Indonesia (Papua).

circumcinctum Fikáček, 2010

Dactylosternum circumcinctum Fikáček, 2010b: 344. – New Caledonia, Grande Terre, North Province, Mt. Panié, 600 m a.s.l.

Distribution. New Caledonia.

despectum Hebauer, 2008

Dactylosternum despectum Hebauer, 2008: 51. – Indonesia, Irian Jaya, Baliem district, Kangime, 1900 m a.s.l.

Distribution. Indonesia (Papua).

destructum Hebauer, 2008

Dactylosternum destructum Hebauer, 2008: 51. – Indonesia, Irian Jaya, Japen Is., Kontinuai, 600–750 m a.s.l.

Distribution. Indonesia (Papua).

fikaceki Hebauer, 2008

Dactylosternum fikaceki Hebauer, 2008: 52. – Indonesia, Irian Jaya, Wandammen Bay, Wasior, 200 m a.s.l.

Distribution. Indonesia (Papua).

kanakorum Fikáček, 2010

Dactylosternum kanakorum Fikáček, 2010b: 388. – New Caledonia, Grande Terre, North Province, Mt. Panié trail.

Distribution. New Caledonia.

Phaenostoma* d'Orchymont, 1937**kontax* Gustafson & Short, 2010**

Phaenostoma kontax Gustafson & Short, 2010a: 464. – Peru, Loreto Department, Campamento San Jacinto, 2°18.75'S 75°51.77'W.

Distribution. Peru.

***stochasma* Gustafson & Short, 2010**

Phaenostoma stochasma Gustafson & Short, 2010a: 466. – Costa Rica: Cartago Province, Turrialba, Barquilla National Park.

Distribution. Costa Rica, Venezuela.

Tribe Protosternini

***Sphaerocetum* Fikáček, 2010**

Sphaerocetum Fikáček, 2010d: 29. – Type species: *Sphaerocetum malayanum* Fikáček, 2010 (original designation).
Gender: neuter.

***malayanum* Fikáček, 2010**

Sphaerocetum malayanum Fikáček, 2010d: 33. – Malaysia, Perak, Banjaran Titiwangsa Mts., Korbu Mt., 25 km NE of Ipoh, 1200 m a.s.l.

Distribution. Malaysia (peninsular).

Tribe Omicrini

Aculomicrus* Smetana, 1990**alesi* Fikáček, 2010**

Aculomicrus alesi Fikáček, 2010b: 342. – New Caledonia, Grande Terre, South Province, Mt. Koghi.

Distribution. New Caledonia.

***reticulatus* Fikáček, 2010**

Aculomicrus reticulatus Fikáček, 2010b: 344. – New Caledonia, Grande Terre, South Province, Rivière Bleue Provincial Park.

Distribution. New Caledonia.

Mircogioton* d'Orchymont, 1937**huonus* Hebauer, 2006**

Mircogioton huonus Hebauer, 2006c: 27. – Papua New Guinea, Kainantu env., Onerunka.

Distribution. Papua New Guinea.

***irregularis* Hebauer, 2006**

Mircogioton irregularis Hebauer, 2006c: 26. – Indonesia, Irian Jaya, Baliem district, Ilugwa, Melanggama, 2100–2300 m a.s.l.

Distribution. Indonesia (Papua).

***seriatus* Hebauer, 2006**

Mircogioton seriatus Hebauer, 2006c: 27. – Indonesia, Irian Jaya, Baliem district, Ilugwa, Melanggama, 1900–2200 m a.s.l.

Distribution. Indonesia (Papua).

Psalitrus* d'Orchymont, 1919**altipaniensis* Fikáček, 2010**

Psalitrus altipaniensis Fikáček, 2010b: 347. – New Caledonia, Grande Terre, North Province, Mt. Panié, summit, 1638 m a.s.l.

Distribution. New Caledonia.

***kuscheli* Fikáček, 2010**

Psalitrus kuscheli Fikáček, 2010b: 351. – New Caledonia, Grande Terre, South Province, Mt. Rembai, 700 m a.s.l.

Distribution. New Caledonia.

***lapita* Fikáček, 2010**

Psalitrus lapita Fikáček, 2010b: 353. – New Caledonia, Grande Terre, North Province, Mt. Panié, 600 m a.s.l.

Distribution. New Caledonia.

***masatakai* Hoshina, 2007**

Psalitrus masatakai Hoshina, 2007: 42. – Japan, Ryukyu Isl., Amami-Ōshima Is., Materia-no-taki.

Distribution. Japan (Ryukyus).

Tribe Megasternini

Armostus* Sharp, 1890**nigricans* Hoshina & Satō, 2006**

Armostus nigricans Hoshina & Satō, 2006: 97. – Japan, Ryukyu Islands, Tokara Island Group, Nakanoshima Island.

Distribution. Japan (Ryukyu Islands), South Korea (HOSHINA & SATŌ 2006, HOSHINA & CHO 2008).

***ohyamatenis* Hoshina & Satō, 2006**

Armostus ohyamatenis Hoshina & Satō, 2006: 102. – Japan, Kyushu, Fukuoka Prefecture, Mt. Fukuchi.

Distribution. Japan (Kyushu).

Cercyon* Leach, 1817**aequalis* Sharp, 1884**

Transferred to the subgenus *Clinocercyon* by RYNDEVICH (2006b: 316).

***alinae* Ryndevich, 2004**

Transferred to the subgenus *Cercyon* s. str. by RYNDEVICH (2006b: 320).

***castaneipennis* Vorst, 2009**

Cercyon (Cercyon) castaneipennis Vorst, 2009: 60. – The Netherlands, Utrecht province, Elst, plantage Willem III.

Distribution. Czech Republic, Latvia, the Netherlands, Slovakia, Sweden, Poland.

***depressus uruguayanus* Knisch, 1924 = *depressus* Stephens, 1829**

Synonymized by FIKÁČEK (2009b: 353).

***deserticola* Fikáček, Gentili & Short, 2010**

Cercyon (Cercyon) deserticola Fikáček, Gentili & Short, 2010: 156. – United Arab Emirates, Fujairah.

Distribution. United Arab Emirates.

***hebaueri* Ryndevich, 2007**

Cercyon (s. str.) *hebaueri* Ryndevich, 2007a: 309. – India [without specified locality].

Distribution. India.

linearis Wu & Pu, 1995

Transferred to the subgenus *Paracycreon* by RYNDEVICH (2008: 89).

panamensis Hansen, 1999 = *nigriceps* (Marsham, 1802)

Synonymized by FIKÁČEK (2009b: 354).

paranigriceps Ryndevich & Hebauer, 2010

Cercyon (s. str.) *paranigriceps* Ryndevich & Hebauer, 2010: 335. – Russia, Primorskiy Kray, Tshernye Gory, Venedivnovo.

Distribution. Russia (Far East), Myanmar.

placidus Sharp, 1844

Transferred to the subgenus *Clinocercyon* by RYNDEVICH (2006b: 316).

rubicundus Sharp, 1884

Transferred to the subgenus *Clinocercyon* by RYNDEVICH (2006b: 317).

sanaïi Hoshina, 2008

Cercyon sanaïi Hoshina, 2008: 2. – Japan, Honshu, Fukui Prefecture, Fukui City, Ichijô-daki.

Distribution. Japan (Honshu).

Note. The species is not placed in any subgenus in the original description. It is compared with *C. vagus* Sharp, 1884 (currently placed in the subgenus *Conocercyon*; RYNDEVICH 2007b) and *C. shinanensis* Nakane, 1965 (currently placed in *Cercyon* s. str.). The subgeneric placement remains therefore unclear, but the morphology of the metaventrite drawn in the original description allows the possibility that it may be placed into the subgenus *Conocercyon* as well (compare Fig. 7 in HOSHINA (2008) with Fig. 10 in RYNDEVICH (2006b)).

soesilae Makhan, 2010

Cercyon soesilae Makhan, 2010: 1. – Suriname, Suriname district [without detailed locality].

Distribution. Suriname.

Note. The species was not placed in any subgenus in the original description and the subgeneric placement is unclear based on the short and inadequate description.

striatus Sharp, 1882 = *nigriceps* (Marsham, 1802)

Synonymized by FIKÁČEK (2009b: 354).

tropisternus Wu & Pu, 1995

Transferred to the subgenus *Paracycreon* by RYNDEVICH (2008: 89).

vagus Sharp, 1844

Transferred to the subgenus *Conocercyon* by RYNDEVICH (2006b: 318).

Cetiocyon* Hansen, 1990cribripunctatus* Fikáček & Short, 2010

Cetiocyon cribripunctatus Fikáček & Short, 2010b: 318. – Indonesia, Papua province, Baliem valley, Jiwika-Wandaku, 1700–2300 m a.s.l.

Distribution. Indonesia (Papua).

hebaueri Fikáček & Short, 2010

Cetiocyon hebaueri Fikáček & Short, 2010: 321. – Indonesia, Papua Province, Jayawijaya, Nalca env., Galbok, 1700–1800 m a.s.l.

Distribution. Indonesia (Papua).

incantatus Fikáček & Short, 2010

Cetiocyon incantatus Fikáček & Short, 2010b: 314. – Suriname, Brokopondo district, Brownsberg Nature Reserve, Witi Creek Trail, 4°56'55"N 55°10'53"W.

Distribution. Surinam.

riedeli Fikáček & Short, 2010

Cetiocyon riedeli Fikáček & Short, 2010: 322. – Indonesia, Papua province, Baliem valley, Jiwika-Wandaku, 1900–2300 m a.s.l.

Distribution. Indonesia (Papua), Papua New Guinea.

traipela Fikáček & Short, 2010

Cetiocyon traipela Fikáček & Short, 2010: 323. – Papua New Guinea, Eastern Highlands Province, Kainantu area, Onerunka.

Distribution. Papua New Guinea.

Cyrtonion* Hansen, 1989**sculpticolle*** (Régimbart, 1907)

Transferred from *Pachysternum* to *Cyrtonion* by FIKÁČEK (2006: 154).

moto Fikáček, 2008

Cyrtonion moto Fikáček, 2008: 29. – Democratic Republic of the Congo, Ituri prov., Moto, 3°10'N 29°30'E, 790 m a.s.l.

Distribution. Democratic Republic of the Congo.

Kanala* Balfour-Browne, 1939**bipunctata*** Fikáček, 2010

Kanala bipunctata Fikáček, 2010c: 380. – New Caledonia, Grande Terre, South Province, Mt. Koghi, 500 m a.s.l.

Distribution. New Caledonia.

loebli Fikáček, 2010

Kanala loebli Fikáček, 2010c: 381. – New Caledonia, Grande Terre, South Province, Mt. Koghi, 500–600 m a.s.l.

Distribution. New Caledonia.

punctiventris Fikáček, 2010

Kanala punctiventris Fikáček, 2010c: 388. – New Caledonia, Grande Terre, South Province, Mt. Koghi, 500 m a.s.l.

Distribution. New Caledonia.

Motonerus* Hansen, 1989**andersoni*** Fikáček & Short, 2006

Motonerus andersoni Fikáček & Short, 2006: 9. – Panama, Chiriqui Province, 12 km NE of Santa Clara, 8°54.74'N 82°43.29'W, 2120 m a.s.l.

Distribution. Costa Rica, Panama.

apterus Fikáček & Short, 2006

Motonerus apterus Fikáček & Short, 2006: 12. – Venezuela, Mérida State, 34 km NW of Mérida, 8°37'00"N 71°20'12"W, 2350 m a.s.l.

Distribution. Colombia, Venezuela.

***depressus* Fikáček & Short, 2006**

Motonerus depressus Fikáček & Short, 2006: 15. – Colombia, Caldas Province, 18 km NW of La Aquadita, 2130 m a.s.l.

Distribution. Colombia.

***hanseni* Fikáček & Short, 2006**

Motonerus hanseni Fikáček & Short, 2006: 17. – Costa Rica, Puntarenas Province, Reserva de Monteverde, 1500 m a.s.l.

Distribution. Costa Rica.

***nublado* Fikáček & Short, 2006**

Motonerus nublado Fikáček & Short, 2006: 25. – Venezuela, Mérida State, 25 km NW of Mérida, Jaji Road, Chorrera Gonzales, 1800 m a.s.l.

Distribution. Venezuela.

***oosternoides* Fikáček & Short, 2006**

Motonerus oosternoides Fikáček & Short, 2006: 30. – Panama, Chiriqui Province, 5.6 km N of Boquete, 1800 m a.s.l.

Distribution. Panama.

***problematicus* Fikáček & Short, 2006**

Motonerus problematicus Fikáček & Short, 2006: 32. – Costa Rica, Puntarenas Province, Monteverde Cloud Forest Reserve.

Distribution. Costa Rica.

Nipponocercyon* Satô, 1963**monticola* Nakane, 1968 = *shibatai* Satô, 1963**

Synonymized by HOSHINA & FIKÁČEK (2010: 124).

***shibatai oyamanum* Nakane, 1968 = *shibatai* Satô, 1963**

Synonymized by HOSHINA & FIKÁČEK (2010: 124).

Oosternum* Sharp, 1882**acutheca* Fikáček, Hebauer & Hansen, 2009**

Oosternum acutheca Fikáček, Hebauer & Hansen, 2009: 13. – Honduras, Olancho province, La Muralla National Park, 14 km N of La Union, 1450 m a.s.l.

Distribution. Costa Rica, Honduras, Nicaragua.

amrishi* (Makhan, 2009) *comb. nov.

Motonerus amrishi Makhan, 2009: 1. – Suriname, Kasikasima.

Distribution. Suriname.

Note. Based on the photograph of the male genitalia published in the original description, the aedagus differs distinctly from the typical shape present in all *Motonerus* species (see FIKÁČEK & SHORT 2006) and agrees well with the genus *Oosternum* in all characters seen in the photographs. For that reason, the species is transferred here to the genus *Oosternum*.

***attenuatum* Fikáček, Hebauer & Hansen, 2009**

Oosternum attenuatum Fikáček, Hebauer & Hansen, 2009: 24. – Panama, Coclé Province, 7.2 km NE of El Cope, 750 m a.s.l.

Distribution. Colombia, Ecuador, Panama.

cicatricosum Fikáček, 2009

Oosternum cicatricosum Fikáček, 2009a: 180. – Costa Rica, Puntarenas Province, Osa Peninsula, Corcovado National Park, Sirena Station, lower Ollas trail, 8°24'48"N 83°35'22"W, 5 m a.s.l.

Distribution. Costa Rica.

convexum Fikáček & Hebauer, 2009

Oosternum convexum Fikáček & Hebauer, 2009: 109. – Panama, Chiriqui Province, 4.5 km SE of Cerro Punta, oak and bamboo forest.

Distribution. Costa Rica, Panama.

gibbicolle Fikáček, Hebauer & Hansen, 2009

Oosternum gibbicolle Fikáček, Hebauer & Hansen, 2009: 26. – Ecuador, Sucumbios province, Limoncocha, 250 m a.s.l.

Distribution. Ecuador, Panama.

holosericeum Fikáček, Hebauer & Hansen, 2009

Oosternum holosericeum Fikáček, Hebauer & Hansen, 2009: 30. – Argentina, Salta province, 11.2 km N of La Caldera, 1550 m a.s.l.

Distribution. Argentina.

intermedium Fikáček & Hebauer, 2009

Oosternum intermedium Fikáček & Hebauer, 2009: 111. – Costa Rica, San José Province, Estación Cuerici, 4.6 km E of Villa Mills, 09°34'N 83°40'W, 2600 m a.s.l.

Distribution. Costa Rica.

latum Fikáček, Hebauer & Hansen, 2009

Oosternum latum Fikáček, Hebauer & Hansen, 2009: 34. – Saint Vincent and the Grenadines (Windward Islands), Saint Vincent Island.

Distribution. Saint Vincent and the Grenadines (St. Vincent Island).

rishwani (Makhan, 2009) **comb. nov.**

Motonerus rishwani Makhan, 2009: 2. – Suriname, Nieuw Amsterdam.

Distribution. Suriname.

Note. Based on the photograph of the male genitalia published in the original description, the aedagus differs distinctly from the typical shape present in all *Motonerus* species (see FIKÁČEK & SHORT 2006) and agrees well with the genus *Oosternum* in all characters seen on the photographs. For that reason, the species is transferred here to the genus *Oosternum*.

simplex Fikáček & Hebauer, 2009

Oosternum simplex Fikáček & Hebauer, 2009: 112. – Costa Rica, border of San José and Cartago Provinces, 3 km S of El Empalme, 9°42'30"N 83°57'W, 2350 m a.s.l.

Distribution. Costa Rica.

sugitai Hoshina, 2009

Oosternum sugitai Hoshina, 2009: 2. – Japan, Honshu, Fukui Prefecture, Ôno City, Shimo-uchinami.

Distribution. Japan (Honshu).

takedai Hoshina & Satô, 2005

Oosternum takedai Hoshina & Satô, 2005: 2. – Japan, Honshu, Fukui Prefecture, Tsuruga City, Nakaikemi wetland.

Distribution. Japan (Honshu).

Pachysternum* Motschulsky, 1863**loxodonta* Fikáček, 2006**

Pachysternum loxodonta Fikáček, 2006: 149. – Republic of the Congo, Lefinie reservation, Nambouli river.

Distribution. Republic of the Congo.

***sulawesicum* Fikáček, 2006**

Pachysternum sulawesicum Fikáček, 2006: 152. – Indonesia, Sulawesi, Malino env., E of Ujung Pandang.

Distribution. Indonesia (Sulawesi).

Pacrillum* d'Orchymont, 1941**cyrilloideum* Fikáček & Hebauer, 2006**

Pacrillum cyrilloideum Fikáček & Hebauer, 2006: 60 – Nepal, Annapurna Himalaya, 19 km NW of Pokhara, 28°18'57"N 83°49'59"E, 2100 m a.s.l.

Distribution. Nepal.

lucidum* (Shatrovskiy, 1989) **comb. nov.*

Agnaeformia lucida Shatrovskiy, 1989: 286.

Note. Because of the synonymy of *Agnaeformia* with *Pacrillum* proposed above, *Agnaeformia lucida* has to be transferred to *Pacrillum*.

Paroosternum* Scott, 1913**africanum* Hebauer, 2006**

Paroosternum africanum Hebauer, 2006e: 45. – Rwanda, Western Province, Cyangugu, Nyekabuye env.

Distribution. Republic of the Congo, Gambia, Kenya, Nigeria, Rwanda, Uganda.

***ceylonense* Hebauer, 2006**

Paroosternum ceylonense Hebauer, 2006e: 46. – Sri Lanka, Central Province, Kunundu Oya, 11 miles NE of Nuwara Eliya, 2900 ft.

Distribution. Sri Lanka.

***jayanum* Hebauer, 2006**

Paroosternum jayanum Hebauer, 2006e: 48. – Indonesia, Irian Jaya, Jayapura district, Demta coast.

Distribution. Indonesia (Papua).

***melanesinum* Hebauer, 2006**

Paroosternum melanesinum Hebauer, 2006e: 42. – Papua New Guinea, Morobe, Gurakor env.

Distribution. Indonesia (Papua), Papua New Guinea.

Sacosternum* Hansen, 1989**auribleps* Fikáček & Short, 2010**

Sacosternum auribleps Fikáček & Short, 2010a: 8. – Brazil, Rondônia State, 62 km SW of Ariquemes near to Fzda. Rancho Grande.

Distribution. Brazil.

***cruciphallus* Fikáček & Short, 2010**

Sacosternum cruciphallus Fikáček & Short, 2010a: 9. – Panama, Chiriqui Province, Fortuna.

Distribution. Panama.

delta Fikáček & Short, 2010

Sacosternum delta Fikáček & Short, 2010a: 12. – Paraguay, Itapúa Department, Yalai, San Rafael Reserve, 26°38'17"S 55°39'50"W, 100 m a.s.l.

Distribution. Brazil, Paraguay.

emissarium Fikáček & Short, 2010

Sacosternum emissarium Fikáček & Short, 2010a: 13. – Costa Rica, Puntarenas Province, Coto Brus Canton, Estación Pittier, 1670 m a.s.l.

Distribution. Costa Rica.

epulum Fikáček & Short, 2010

Sacosternum epulum Fikáček & Short, 2010a: 15. – Brazil, Santa Catharina State, Nova Teutonia, 300–500 m a.s.l.

Distribution. Brazil.

garciai Fikáček & Short, 2010

Sacosternum garciai Fikáček & Short, 2010a: 16. – Chiriquí Province, Boquete.

Distribution. Costa Rica, Panama, Venezuela.

inconnivum Fikáček & Short, 2010

Sacosternum inconnivum Fikáček & Short, 2010a: 19. – Panama, Canal Zone, Barro Colorado Island.

Distribution. Costa Rica, Panama.

lebbinorum Fikáček & Short, 2010

Sacosternum lebbinorum Fikáček & Short, 2010a: 24. – Peru, Loreto Region, 160 km NE of Iquitos, Explornapo Camp at Rio Sucusari, 2 km from Rio Napo.

Distribution. Brazil, Peru, French Guiana.

Geographic distribution of new species

Since the publication of the original Catalogue (HANSEN 1999), 580 new species have been described (this total includes a small number of species which were both described and synonymized since 1999). Expectedly, the geographic distribution of these new species is very uneven: the Nearctic saw its fauna grow only by eight new species, while the Australian Region experienced explosive growth, accounting for more than 29 % of the new taxa over the same 11 year period (it should be noted that the majority of these species are not from Australia proper, but from New Guinea and surrounding islands) (Fig. 1).

Several shifts in geographic emphasis between the first and second updates are also apparent. The Neotropical Region, which accounted for only 16 % of new species by the publication of the first update, was the home to more than 34 % of the species described in the five years covered by this update and was the only region to see an increase in the number of new species described. Inversely, the Australian, Oriental and Afrotropical Regions saw sharp declines of between 60 and 70 % in the number of new species described over the totals in the first update. The Palearctic was relatively steady in species accumulation, with 27 and 26 species described in the updates respectively.

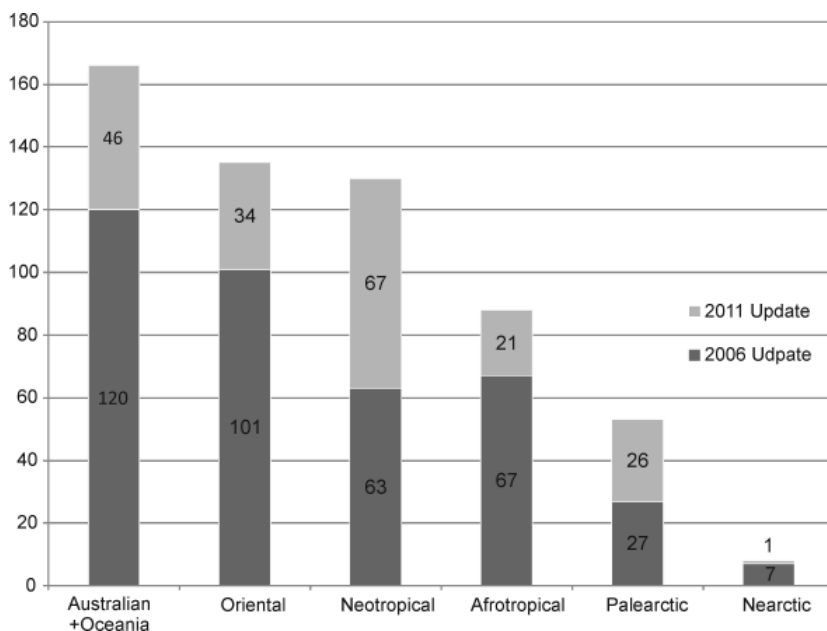


Fig. 1. Distribution of newly described species since HANSEN (1999) by faunal region and catalogue update (SHORT & HEBAUER 2006, this paper). Boundaries used to define regions are identical to those used by HANSEN (1999), except we have combined the Australian and 'Pacific' Regions into one.

Research on the Hydrophiloidea between 2006–2010

Besides the progress in the taxonomy of the Hydrophiloidea depicted above, several additional papers concerning phylogeny, larval morphology and fossil record of the superfamily were published and the presented results are briefly summarized below.

Phylogeny. Five studies focusing the higher-level phylogeny of the Hydrophiloidea were published between 2006–2010. Three phylogenetic studies were based on adult morphological data: KOMAREK & BEUTEL (2007) analysed the generic relationships within the Anacaenini, SHORT & LIEBHERR (2007) within the Hydrobiusini, and SHORT (2010a) within Hydrophilini *sensu nov.* ARCHANGELSKY (2008) analysed the relationships between the genera of the Berosini based on the combination of larval and adult morphology. Two studies were focused on the family-level relationships within the Hydrophiloidea: the analysis by BERNHARDT et al. (2006) was based on sequences of four mitochondrial and two nuclear genes, the study by BERNHARD et al. (2009) combines these molecular data with the morphological characters of adults and larvae largely adapted from previous phylogenetic studies. ARCHANGELSKY (2007) discuss the evolution of selected characters of morphology and life style of adults and larvae under five phylogenetic hypotheses presented earlier for the family relationships of the Hydrophiloidea.

Larval morphology. The studies on larval morphology published between 2006–2010 were mainly focused on the immature stages of the Neotropical Hydrophilinae (TORRES et al. 2008: *Tropisternus*, BYTTBIER & TORRES 2009: *Enochrus*, see also recently published paper about *Tropisternus* by TORRES et al. 2011) and on Japanese Hydrophilidae (HAYASHI 2008, 2009: several aquatic genera [see the paper by MINOSHIMA & HAYASHI (2011) for detailed English description of these larvae]; HAYASHI & HAYAMA 2009: *Cercyon*). ARCHANGELSKY et al. (2009) presented a key to the hydrophiloid genera of the Neotropical region based on larval characters. The characters of the primary chaetotaxy of the head and legs were introduced into the studies of the immature stages of the Hydrophiloidea just recently by FIKÁČEK et al. (2008), BYTTBIER & TORRES (2009) and TORRES et al. (2011).

Fossil record. Three fossil genera and eight species were described between 2006–2010. Two of these new species were placed in recent genera: *Hydrobiomorpha eopalpalis* Fikáček, Wedmann & Schmied, 2010 and *Limnoxenus olenus* Fikáček, Prokop & Nel, 2010. Three extinct genera were described: *Georissites* Ponomarenko, 2008 (containing two species: *G. negev* Ponomarenko, 2008 and *G. magnus* (Haupt, 1956)), *Prospercheus* Prokin, 2009 (with a single species *P. cristatus* Prokin, 2009) and *Sinosperchopsis* Prokin, Ren & Fikáček, 2010 (with a single species *S. silinae* Prokin, Ren & Fikáček, 2010). Four additional species of the extinct genus *Hydrophilopsia* Ponomarenko, 1987 were described by PROKIN (2009) and PROKIN et al. (2010): *H. bontsaganica* Prokin, 2009, *H. gracilis* Prokin, Ren & Fikáček, 2010, *H. hydraenoides* Prokin, Ren & Fikáček, 2010 and *H. shatrovskiyi* Prokin, Ren & Fikáček, 2010. Additional revisions of European Tertiary fossils of the Hydrophilidae confirming or correcting their generic assignments were published by FIKÁČEK et al. (2008, 2010c). A complete commented catalogue of the fossils of the Hydrophiloidea is currently compiled by FIKÁČEK et al. (in prep.) and the fossil taxa are therefore not mentioned in the taxonomic part of this paper.

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