

New records on the distribution of some species of the families Haliplidae and Hydrophilidae (Coleoptera)

Nová data k rozšíření některých druhů čeledi Haliplidae a Hydrophilidae (Coleoptera)

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Abstract. New data on the distribution of 16 Palaearctic, Oriental, Afrotropical and Neotropical species of the families Haliplidae [*Peltodytes* (s. str.) *caesus* (Duftschmid, 1805), *Halipus* (*Liaphlus*) *andalusicus* Wehneke, 1874, *Halipus* (*Liaphlus*) *guttatus* Aubé, 1836 and *Halipus* (s. str.) *sibiricus* Motschulsky, 1860] and Hydrophilidae [*Peltochares* *conspicuous* Régimbart, 1907, *Hydrochara* *flavipalpis* (Boheman, 1851), *Hydrophilus* (*Dibolocerus*) *smaragdinus* Brullé, 1837, *Hydrophilus* (s. str.) *bilineatus caschmirensis* Redtenbacher, 1844, *Hydrophilus* (s. str.) *ensifer duvali* Hansen, 1999, *Hydrophilus* (s. str.) *foveolatus* (Régimbart, 1901), *Hydrophilus* (s. str.) *guarani* (Bachmann, 1966), *Hydrophilus* (s. str.) *hastatus* (Herbst, 1779), *Hydrophilus* (s. str.) *indicus* (Bedel, 1891), *Hydrophilus* (s. str.) *pistaceus* Castelnau, 1840, *Hydrophilus* (*Temnopterus*) *aculeatus* (Solier, 1834) and *Cercyon* (*Arcocercyon*) *dieganus* Régimbart, 1903] are provided.

INTRODUCTION

The distribution of many species of the families Haliplidae and Hydrophilidae is still insufficiently known. I have recently studied specimens of the Haliplidae and the hydrophilid genera *Peltochares* Régimbart, 1907, *Hydrochara* Berthold, 1827, *Hydrophilus* O. F. Müller, 1764 and *Cercyon* Leach, 1817 from different collections, which confirm their occurrence in additional countries and/or provide precise locality data corroborating their occurrence in several states in the Palaearctic, Oriental, Afrotropical and Neotropical Regions.

The geographic distribution of the Haliplidae was studied in detail by Zimmermann (1924) and Vondel (2005). Additional studies concerning the distribution of the family in Europe and other parts of the Palaearctic Region were published by Zaitsev (1953), Holmen (1987), Shatrovskiy (1989) and Vondel (1991, 1992, 1995, 1998a and 2003). The validity of *Halipus sibiricus* Motschulsky, 1860, was discussed and established by Lundmark, Drotz & Nilsson (2001) and Vondel (1998b, 2003 and 2005).

The geographic distribution of the Hydrophilidae was summarized by Hansen (1987, 1999, 2004). Distributional data of all then known species of the genus *Hydrophilus* were summarized by Bedel (1891), Kuwert (1893) and Régimbart (1902) more than 100 years ago. Additional data were published by Watts (1988) for the Australian species and by Bachmann (1965, 1966) for the Neotropical species. Gentili et al. (1995) gave a check list of the subfamily Hydrophilinae recorded from China and adjacent territories, mentioning also some species of

the genus *Hydrophilus*. The geographic distribution of the genus *Hydrochara* was summarized by Smetana (1980). Hebauer (1997) and Fikáček (2005) published detailed distributional data for the *Cercyon (Arctocercyon) dieganus*-group in Africa.

ABBREVIATIONS AND EXPLANATIONS

All specimens were identified by the author. They come from both museum and private collections: JSLC – coll. Jaroslav Štátný, Liberec, Czech Republic; MBPC – coll. Milan Boukal, Pardubice, Czech Republic; MMHC – coll. Marion Mantič, Hlučín, Czech Republic; MSEM – coll. Museum of South-Eastern Moravia, Zlín, Czech Republic (D. Trávníček).

FAUNISTIC NOTES

Haliplidae

Peltodytes (s. str.) *caesus* (Duftschmid, 1805)

Tadzhikistan: Fan Mts., vii.1991, 2 ♀♀, J. Štátný leg. (JSLC).

Distribution: Afghanistan, Albania, Algeria, Armenia, Austria, Belgium, Bulgaria, Byelorussia, China, Croatia, Czech Republic, Denmark, France, Germany, Great Britain, Greece, Hungary, Iran, Iraq, Israel, Italy, Kazakhstan, Latvia, Liechtenstein, Luxembourg, Macedonia, Morocco, the Netherlands, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Syria, Transcaucasia, Tunisia, Turkmenistan, Turkey, Ukraine, Uzbekistan, Yugoslavia (Vondel 2005). Vondel (2005) also added new records for Azerbaijan, Bosnia and Herzegovina, Kyrgyzstan, Lebanon, and Tadzhikistan but without precise locality data; therefore I present further information on the distribution of the species in Tadzhikistan.

Haliplus (Liaphlus) andalusicus Wehncke, 1874

Portugal: Portugal mer., region Faro, Trafal, “meadow-freshwater”, 2.iii.2004, 27 ♂♂, 14 ♀♀, M. Mantič leg. (MMHC; 5 ♂♂ in MBPC); same data but 4.iii.2004, 1 ♂, M. Mantič leg. (MBPC); same data but “puddle on the road and ditch”, 10.xi.2004, 3 ♂♂, 15 ♀♀, M. Mantič leg. (MMHC; 6 ♀♀ in MBPC).

Distribution: Algeria, France, Italy, Morocco, Portugal, Spain, Tunisia (Vondel 2005). Considering the limited amount of published recent records I present further information on the distribution in Portugal.

Haliplus (Liaphlus) guttatus Aubé, 1836

Portugal: Portugal mer., region Faro, Trafal, “meadow-freshwater”, 2.iii.2004, 1 ♂, 1 ♀, M. Mantič leg. (MMHC; 1 ♂ in MBPC); same data but “puddle on the road and ditch”, 10.xi.2004, 10 ♂♂, 13 ♀♀, M. Mantič leg. (MMHC; 2 ♂♂, 3 ♀♀ in MBPC).

Distribution: Algeria, Croatia, France, Greece, Hungary, Italy, Malta, Morocco, Spain, Tunisia (Vondel 2005). First record from Portugal.

Haliplus (s. str.) *sibiricus* Motschulsky, 1860 [syn. = *H. wehnckei* Gerhardt, 1877; *H. zacharenkoi* Gramma et Prisny, 1973]

Turkey: Turkey or., Muradiye, Süphan Gölü lake, 2.500 m a.s.l., in a stream emptying into

the lake, 19.v.1997, 1 ♂, D. Trávníček leg. (MSEM); Kars village, 20 km NW of Ardahan, Çam Geçidi, 2.800 m a.s.l., 28.vi.2006, 1 ♂, 1 ♀, J. Mertlik leg. (MBPC).

Distribution: Andorra, Austria, Belgium, Bulgaria, Byelorussia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Kazakhstan, Kyrgyzstan, Latvia, Liechtenstein, Macedonia, Mongolia, the Netherlands, Norway, Poland, Romania, Russia, Spain, Sweden, Transcaucasia, Turkey, Uzbekistan, Ukraine (Vondel 2003, 2005). Considering the limited amount of published detailed records I add further information on the distribution in Turkey.

Hydrophilidae

Hydrophilinae: Hydrophilini: Acidocerina

Peltochares conspicuus Régimbart, 1907

Cameroon: Cameroon Sud, Campo, 20.vi.2002, 1 ♂, J. Kondler leg. (MBPC).

Distribution: Gabon, Zaire (Hansen 1999). First record from Cameroon.

Hydrophilinae: Hydrophilini: Hydrophilina

Hydrochara flavipalpis (Boheman, 1851)

Cameroon: Cameroon Nord, Waza, 8.vi.2002, 1 ♂, 1 ♀, J. Kondler leg. (MBPC). **Gambia:** Janjangbureh, 21.-25.vii.2003, 1 ♂, J. Kobylák leg. (MBPC).

Distribution: Angola, Botswana, Burkina, Chad, Ethiopia, Kenya, Madagascar, Mozambique, Namibia, Niger, Nigeria, Oman, Republic of South Africa, Senegal, Somalia, Sudan, Tanzania, Yemen, Zaire, Zimbabwe (Smetana 1980, Hansen 1999). First records from Cameroon and Gambia.

Hydrophilus (Dibolocerus) smaragdinus Brullé, 1837

Colombia: Region Amazónica, Nariña, 10.xi.1995, 2 ♂♂, 1 ♀, Mráček leg. (MBPC).

Distribution: Bolivia, Brazil, Cuba, French Guiana, Mexico, Peru (Bedel 1891, Régimbart 1902, Hansen 1999). First record from Colombia.

Hydrophilus (s. str.) bilineatus caschmirensis Redtenbacher, 1844

Pakistan: Sanjwal, vi.-vii.1978, 1 ♂, J. Tošnar leg. (MBPC).

Distribution: Burma, Cambodia, China, India, Indonesia (Sumatra), Japan, Malaysia, South Korea, Sri Lanka, Taiwan, Thailand, Vietnam (Bedel 1891, Kuwert 1893, Régimbart 1902, Hansen 1999). First record from Pakistan.

Hydrophilus (s. str.) ensifer duvali Hansen, 1999

Guatemala: Tikal, 28.viii.1995, on the light, 1 ♂, 1 ♀, M. Veselý leg. (MBPC). **Mexico:** Yucatan, Campeche, Lerma, 9.vi.2003, 1 ♂, Hanč leg. (MBPC); Tapachula, Puerto Madero, v.1994, 1 ♀, M. Sér leg. (MBPC).

Distribution: Bahamas, Cuba, Dominican Republic, Puerto Rico, Lesser Antilles (Bedel 1891, Régimbart 1902, Young 1953, Hansen 1999). First records from Guatemala and Mexico.

***Hydrophilus (s. str.) foveolatus* (Régimbart, 1901)**

Ecuador: Province Napo, Baeza, 3.-4.ii.2000, 1 ♂, Mráček leg. (MBPC); Guayaquil, v.1980, 1 ♀, H. Loufalová leg. (MBPC).

Distribution: ?Ecuador, Peru, Venezuela (Régimbart 1902, Bachmann 1966, Hansen 1999). Occurrence confirmed in Ecuador.

***Hydrophilus (s. str.) guarani* (Bachmann, 1966)**

Paraguay: Lama Plata, 27.i.2001, 1 ♀, J. Kondler leg. (MBPC).

Distribution: Argentina, Brazil, Chile, ?Ecuador, Peru, Uruguay (Bachmann 1966, Hansen 1999). First record from Paraguay.

***Hydrophilus (s. str.) hastatus* (Herbst, 1779)**

Thailand: Khao Yai National Park, 7.vii.1995, 2 ♂♂, V. Bičík leg. (MBPC); Chiang Mai, vi.1996, 3 ♂♂, without collector data (MBPC); Northern Thailand, Pai, 1.-12.v.2001, 1 ♀, R. Kocina leg. (MBPC); Pai env., 1.-14.v.2001, 1 ♀, J. Hromádka leg. (MBPC); Northern Thailand, 100 km NE of Nan Doi Phu Kha NP, 20.-25.iv.2004, 1 ♂, F. Pavel leg. (MBPC); Ko-Chang, 6.-10.vii.2004, 1 ♀, R. Kocina leg. (MBPC); North Thailand, Chiang Dao, 10.-20.vii.2004, 1 ♀, R. Kocina leg. (MBPC).

Distribution: Burma, China, India, Vietnam (Bedel 1891, Kuwert 1893, Régimbart 1902, Hansen 1999). First records from Thailand.

***Hydrophilus (s. str.) indicus* (Bedel, 1891)**

Pakistan: Baluchistan, Dera Murad Jamala, 22.viii.1995, at light, 1 ♂, 1 ♀, L. Gvoždík leg. (MBPC); Sanjwal, vi.-vii.1978, 1 ♂, J. Tošnar leg. (MBPC).

Distribution: India (Bedel 1891, Kuwert 1893, Régimbart 1902, Hansen 1999). First record from Pakistan.

***Hydrophilus (s. str.) pistaceus* Castelnau, 1840**

Spain – Mallorca: Alcudia, 20.vi.1992, 1 ♀, without collector data (MBPC).

Distribution: Algeria, France, Italy (including Sicily and Sardinia), Morocco, Portugal, Spain, Tunisia (Bedel 1891, Kuwert 1893, Régimbart 1902, Hansen 1999). Occurrence confirmed in Mallorca.

***Hydrophilus (Temnopterus) aculeatus* (Solier, 1834)**

Kenya: Province Lamu, E of Garsen, 11.iv.2004, 1 ♂, 1 ♀, M. Snížek leg. (MBPC); Tsavo, Voi env., 15.IV.2004, 1 ♀, M. Snížek leg. (MMHC). **Republic of South Africa:** RSA, Maputoland, Jozini, Tembe Elephant Park env. (W border), 22.i.2003, 1 ♀, M. Snížek leg. (MBPC).

Distribution: Cameroon, Egypt, Ethiopia, Iran, Israel, Mascarene Is., Oman, Saudi Arabia, Senegal, Somalia, Syria, Tanzania, Turkey, Yemen, Zaire, Zambia (Bedel 1891, Kuwert 1893, Régimbart 1902, Hansen 1999). First records from Kenya and Republic of South Africa.

Sphaeridiinae: Megasternini

***Cercyon (Arcocercyon) dieganus* Régimbart, 1903**

Cameroon: Cameroon Sud, Campo, 20.vi.2002, 1 ♂, 1 ♀, J. Kondler leg. (MBPC).

Distribution: Angola, Botswana, Chad, Congo, Egypt, Ethiopia, Ghana, Guinea, Kenya, Madagascar, Mauritania, Mozambique, Namibia, Nigeria, Republic of South Africa, Rwanda, Senegal, Tanzania, Zambia, Zaire, Zimbabwe (Hebauer 1997, Fikáček 2005). First record from Cameroon.

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SOUHRN

V tomto článku shrnuji nové nálezy a doplňující informace o rozšíření některých druhů čeledi Haliplidae [*Peltodytes* (s. str.) *caesus*, *Haliplus* (*Liaphlus*) *andalusicus*, *Haliplus* (*Liaphlus*) *guttatus*, *Haliplus* (s. str.) *sibiricus*] a Hydrophilidae [*Peltochares conspicuus*, *Hydrochara flavipalpis*, *Hydrophilus* (*Dibolocerus*) *smaragdinus*, *Hydrophilus* (s. str.) *bilineatus caschmirensis*, *Hydrophilus* (s. str.) *ensifer duvali*, *Hydrophilus* (s. str.) *foveolatus*, *Hydrophilus* (s. str.) *guarani*, *Hydrophilus* (s. str.) *hastatus*, *Hydrophilus* (s. str.) *indicus*, *Hydrophilus* (s. str.) *pistaceus*, *Hydrophilus* (*Temnopterus*) *aculeatus* a *Cercyon* (*Arcocercyon*) *dieganus*]. Pro všechny nálezy uvádím přesné lokální údaje potvrzující výskyt těchto druhů ve státech, v nichž nebyly dosud zaznamenány, nebo z nichž byly dosud publikovány pouze nepřesné lokální údaje.