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New and additional faunistic records for 18 species of diving beetles from the USA and Mexico (Coleoptera: Dytiscidae)

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Abstract

New data on the distribution of 18 species of Dytiscidae (Coleoptera) from the USA and Mexico are provided.

Key words: Coleoptera, Dytiscidae, faunistics, new records, USA, Mexico, Nearctic.

Introduction

The present paper was initiated mainly by the examination of material from the Museum für Naturkunde, Humboldt-Universität, Berlin, and of numerous specimens collected by Dr. A.E.Z. Short and G. Challet. It deals with new and interesting faunistic data on 18 species of diving beetles. This paper is in continuity with my previous works (SHAVERDO 2004, 2005, SHAVERDO et al. 2002).

Material and methods

Specimens were identified using relevant taxonomic literature, and with reference to authoritatively identified specimens and types. For data on prior species distributions, LARSON et al. (2000), GORDON (1969), and NILSSON (2001) were consulted. All label data are quoted as they appear on the labels. Comments in square brackets are those of the author. The abbreviation “hw” means handwriting.

The specimens studied are deposited in the following museums and private collections:

CGC	coll. G. Challet, California, USA
CGW	coll. G. Wewalka, Vienna, Austria
CHF	coll. H. Fery, Berlin, property of NMW
CHS	coll. H. Shaverdo, Vienna, property of NMW
CLH	coll. L. Hendrich, Munich, property of NMW
MNB	Museum für Naturkunde, Humboldt-Universität, Berlin, Germany (B. Jaeger, M. Uhlig)
NMW	Naturhistorisches Museum Wien, Vienna, Austria (M.A. Jäch)

Faunistic notes

***Agabus oblongulus* FALL, 1922**

USA: California: “California austr. Forrer” [hw] – 1 ♂ (MNB).

First record from California. So far this species was recorded from Washington and Oregon.

***Platambus semivittatus* (LECONTE, 1852)**

USA: Maryland: "USA: Maryland: Allegany Co. Little Orleans, nr. Campground 39°37.844 N, 78°23.348 W 456 ft, 5.06.2004 [AS-04-068], A.E.Z. Short leg." – 1 ♀ (CHS).

First record from Maryland.

***Copelatus distinctus* AUBÉ, 1838**

USA: California: "California, Forrer" [green, hw] – 1 ♀ (MNB).

First record from California. So far this species was recorded from Texas to Arizona and Mexico.

***Coptotomus longulus lenticus* HILSENHOFF, 1980**

USA: Pennsylvania: "USA Auburn Pa. VI.71 Lichtfalle [light trap] leg. Perry Gilck" – 1 ♀ (NMW).

First record from Pennsylvania.

***Neobidessus pulloides* YOUNG, 1977**

USA: Arizona: "USA: Arizona: Santa Cruz Co. Nr. Rt. 39: Sycamore Canyon, lights, [AS-03-053], 6.08.2003, A.E.Z.Short leg." – 1 ♂ (CHS).

First record from Arizona.

Five specimens were also collected in Texas ("USA: Texas: McMullen Co., Rt. 72 @ Esperanza Creek, W of Tilden; [AS-03-009], 31.07.2003, A.E.Z.Short leg.") together with 16 exs. of *N. pullus* (LECONTE).

***Uvarus falli* (YOUNG, 1940)**

USA: New York: "USA: New York: Tompkins Co. Marsh off Ellis Hollow Road 4 mi E of Pine Tree Road 17.04.2004; [AS-04-060] A.E.Z. Short leg." – 1 ♂, 1 ♀ (CHS).

First record from New York.

This species is known only from a few localities in eastern Canada and USA.

***Heterosternuta pulcher* (LECONTE, 1855)**

USA: Maryland: "USA: Maryland: Allegany Co. Little Orleans, nr. Campground 39°37.844 N, 78°23.348 W 456 ft, 5.06.2004 [AS-04-068], A.E.Z. Short leg." – 1 ♀ (CHS).

Additional record from Maryland. Although it is not indicated in LARSON et al. (2000), this species has been previously recorded from this state by STAINES (1986, 2008a, 2008b).

***Hydroporus civicus* SHARP, 1887**

Mexico: "Sal" [hw], "MEXICO, Coll. J. Flohr" – 1 ♂ (MNB), "Mexico, Ciudad, 17, Coll. Flohr" [partly hw] – 2 ♀ ♀ (MNB), "Ciudad, 17", "MEXICO, Coll. J. Flohr" – 1 ♀ (MNB).

Previously this species was known only from four syntypes (two males and two females from Mexico, Durango, Ciudad, deposited in the Natural History Museum, London, studied), and from two additional specimens, mentioned in LARSON et al. (2000): Mexico, Durango, west of La Ciudad.

***Hydroporus fortis* LECONTE, 1852**

USA: Arizona: "AZ: Coconino Co., Double Sprgs Cmpgrd, Sept. 4, 1979, G.L. Challet" – 1 ♀ (CHS).

First record from Arizona. The present record is an extension of the known distribution of this species to the east.

***Hydroporus fuscipennis* SCHAUM, 1868**

USA: Wyoming: "USA, Wyoming, Yellowstone NP, Isa Lake, 20 km E West Thumb, leg. Wewalka, 14.7.1996 (3)" – 1 ♂, 1 ♀ (CGW), "USA, Wyoming, Yellowstone NP, Grand Village, rivulet, leg. Wewalka, 15.7.1996 (5)" – 1 ♂, 1 ♀ (CGW, CHS).

Additional record from Wyoming. This species was previously recorded from Wyoming by GORDON (1969).

***Hydroporus longiusculus* GEMMINGER & HAROLD, 1868**

USA: California: "USA: CA: Alpine Co., pond on Blue Lakes Rd, June 23, 2004, G. Challet" – 27 exs. (CGC, CHS). "Temp H₂O, Napa Fairgnds, Napa, CA, 31-III-1998" [hw] – 2 exs. (CHS). "CA: Tulare Co., pond nr. Kern Riv., Kennedy Meadows, May 1, 1989, G. L. Challet" – 2 exs. (CHS).

Additional records from Alpine, Napa, and Tulare Counties. Only a few records were known previously from these counties (SHAVERDO 2006).

***Hydroporus occidentalis* SHARP, 1882**

USA: Wyoming: "USA, Wyoming, Yellowstone NP, Grand Village, rivulet, leg. Wewalka, 15.7.1996 (5)" – 1 ♂, 2 ♀ ♀, 2 exs. (CGW, CHS).

Additional record from Wyoming. This species was previously recorded from Wyoming by GORDON (1969) and SHAVERDO (2004).

***Hydroporus mannerheimi* J. BALFOUR-BROWNE, 1944**

USA: Wyoming: "USA, Wyoming, Yellowstone NP, Isa Lake, 20 km E West Thumb, leg. Wewalka, 14.7.1996 (3)" – 9 ♂ ♂, 4 ♀ ♀ (CGW, CHS).

First record from Wyoming.

***Hydroporus obscurus* STURM, 1835**

USA: New Jersey: "USA: N.J. Middlesex Co., Monroe Twnshp, Old cranberry bog, 2 Aug. 2002, J.J. Scott" – 1 ♂, 3 exs. (CGC, NMW).

First record from New Jersey. The present record is a southern extension of the known distribution of the species.

***Neoporus dimidiatus* (GEMMINGER & HAROLD, 1868)**

USA: North Dakota: "N. Dakota: Williams Co. creek 15 mi NE Bainville, MT. 14-16 Apr. 1995, K.B. Miller, colr." – 1 ♂ (CHF).

First record from North Dakota.

***Neoporus venustus* (LECONTE, 1855)**

USA: Texas: "USA / Texas, Madison Co., 0.3 mi N Trinity River, 15 mi NW Huntsville, 19.III.1994, Gillogly leg. / Coll. Hendrich" – 1 ♂, 1 ♀, 2 exs. (CLH).

First record from Texas. The present record is an extension of the known distribution of this species to the west.

***Stictotarsus roffi* (CLARK, 1862)**

USA: Louisiana: "Louisiana, Mo. U.S.A." – 1 ♂ (MNB). "Hydroporus addendus" [hw] – 1 ex. (MNB). The specimens were standing in the collection together and were prepared in the same way, therefore, both labels are surely meant for both specimens.

First record from Louisiana. Previously this species was known from northern Mexico, western Texas and Arizona (LARSON et al. 2000, ZIMMERMAN 1982). The present record is an extension of the known distribution of the species to the east.

***Hygrotus sylvanus* (FALL, 1917)**

USA: Delaware: “USA: Delaware: New Castle County, Glasgow, woodland pools, 14.05.2003, A.E.Z. Short leg.” – 1 ♂, 3 ♀♀, 1 ex. (CHS).

First record from Delaware. One of the diagnostic characters of this species is the shiny dorsal surface of both sexes. However, one of the females listed above has a matt dorsal surface.

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