

New records and additional data on the distribution of some species of *Hydroporus* CLAIRVILLE (Coleoptera: Dytiscidae)

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Abstract

New data on the distribution of 13 Palearctic and Nearctic species of *Hydroporus* CLAIRVILLE (Coleoptera: Dytiscidae) are provided.

Key words: Coleoptera, Dytiscidae, *Hydroporus*, faunistics, new records, Palearctic Region, Nearctic Region.

Introduction

The genus *Hydroporus* CLAIRVILLE is a speciose Holarctic genus of diving water beetles. It includes 162 species (NILSSON 2001, 2003a, SHAVERDO 2003). The distribution of some species is still not well known.

I have studied a large set of material from different collections mentioned below and discovered some new faunistic data for several *Hydroporus* species from the Nearctic and the Palearctic Regions. Most of these records are from areas contiguous with known distributions of the taxa.

Material and methods

Specimens were identified using relevant taxonomic literature and with reference to authoritatively identified specimens and types. The recently published "Catalogue of Palaearctic Coleoptera" (NILSSON 2003b) was used to get information on the distribution of Palearctic species. For data on the ranges of Nearctic species LARSON et al. (2000) and GORDON (1969) were consulted. All specimen data are quoted as on the locality labels. Label text is cited using quotation marks separating different labels. Comments in square brackets are those of the author. The specimens were studied from the following museums and private collections:

- CAS California Academy of Sciences, San Francisco (D.H. Kavanaugh, R. Brett)
CGC coll. G. Challet, California
CGW coll. G. Wewalka, Vienna
CHS coll. H. Shaverdo, Vienna
CNC Canadian National Collections of Insects, Arachnids, and Nematodes, Eastern Cereal and Oilseed Research Center, Research Branch, Ottawa (A. Davies)
JBWM J.B. Wallis Museum, University of Manitoba, Winnipeg (R.E. Roughley)
MSU Moscow State University (P. Petrov)
MSUB Montana State University in Bozeman, Bozeman (M. Ivie)
NMW Naturhistorisches Museum Wien, Vienna (M.A. Jäch)
OSU Oregon State University, OSU Systematic Entomology Laboratory, Department of Entomology, Corvallis (N. Anderson, G.L. Peters)
ZISP Zoological Institute, Russian Academy of Sciences, St.-Petersburg (A.G. Kirejtshuk)

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Faunistic notes

Hydroporus aurora LARSON & ROUGHLEY

[*striola* group]

CANADA: Yukon Territory: "Y.T., British Mts. Firth R., 250 m 69°13', 140°04' J.M. Campbell", "18.VI.1984 84-8, treading around edge of small pond" – 2 ♂♂, 5 ♀♀ (CNC). First record from Yukon Territory.

Hydroporus carri LARSON

[*transpunctatus* group]

CANADA: Saskatchewan: "Tp. 8 Rge. 27 W. 3 Mer. [Cypress Hills Provincial Park, SW Maple Creek] Sask. 22.VIII.1986 Lot 6 B.F. & J.L. Carr" – 1 ♂, 3 exs. (JBWM). First record from Saskatchewan.

USA: Washington: "Monroe Wash. VII, 4-14, 05" – 1 ♀ (CAS). First record from Washington.

USA: Montana: "MONT: Gallatin Co. Blackmore Cr. 7000' 27 May 1994 D.L. Gustafson col." – 1 ♀ (MSUB). First record from Montana.

USA: California: "Cal. Mono Co. Bodie, mine reservoir Alt. 8500 ft.", "13-VIII-1962 H.B. Leech" – 2 ♂♂, 3 exs. (CAS). "Cal. Mono Co. Bodie, Bodie Cr. Alt. 8320 ft.", "13-VIII-1962 H.B. Leech" – 5 exs. (CAS). "Farrington's Owen's Val. Calif. [Ihyo Co.] VI-12-1917 - Fox" – 1 ♂ (CAS). First record from California.

Hydroporus fuscipennis SCHAUM

[*fuscipennis* or *planus* group]

USA: Michigan: "Huron Co. Mich. Hume Twp. 24 VI-28-1952 P.J. Spangler" – 1 ex. (USNM). "U.S.A.: MI. Midland Co. Stratford Woods F.F. June 5, 1991 T.R. Wilmot" – 1 ex. (CGC).

The species was recorded from Michigan by GORDON (1969), but his records are in need of confirmation since they might refer to *H. larsoni* NILSSON too.

USA: Montana: "MONT: Madison Co. Ponds near Elk Lake 6750' 30 June 1990 D.L. Gustafson col." – 1 ♂ (MSUB). First record from Montana.

Mongolia: "Mongoliya, Vost. [vostochniy = Eastern] aymak r. [river] Khalkhin-Gol, 33 km YuV [SE] somona Khalkh-Gol Kerzhner 19.VII.971" – 1 ♀ (ZISP). First record from Mongolia.

Hydroporus klamathensis LARSON & ROUGHLEY

[*transpunctatus* group]

USA: California: "Calif. Siskiyou Co. Roadside trickle, 1 road mi W of E. Boulder creek, alt. 6080', Scott Mts. South of Callahan" – 1 ♂, 2 ♀♀, 1 ex. (CAS). "Cal. Siskiyou Co. E. Boulder creek, alt. 5725', Scott Mts. S. Callahan, 26.VIII.1970 Hugh B. Leech" – 1 ♂, 4 exs. (CAS). "Calif. 6000 ft. Siskiyou Co. Soap Cr. Ridge, N of Ft. Jones", "Roadside spring 6000 ft.", "2-VIII-1960 H.B. Leech collector" – 1 ♂, 1 ♀ (CAS). "Cal. Siskiyou Co. Taylor creek below rd. to Taylor lake altitude 5400 feet 19.VIII.1970 Hugh B. Leech" – 1 ♂, 4 exs. (CAS). "Cal. Siskiyou Co. Taylor lake Salmon Mts. alt. 6500 feet. Hugh B. Leech", "20-VIII-1970 Small stream, meadow, S end Taylor lk." – 1 ex. (CAS). "Cal. Siskiyou Co. W. Boulder creek, alt. 5025', Scott Mts. S. Callahan. 24.VIII.1970 Hugh B. Leech" – 1 ♀ (JBWM). "Cal. Siskiyou Co. Headwaters E. Fork of S. Fork Salmon, river, Cecilville-Callahan road", "Alt. 6000 feet 31.VII.1968 collector Hugh B. Leech" – 1 ♀ (CAS). "Big Springs Shasta Co. Calif.", "Elev. 4,000 d 26 m6 y 1947 H.P. Chandler" – 1 ♂ (CAS). "Cal. SW corner Tehama Co. 2 mi SW of Government Camp, 6000'", "29-VII-1960 H.B. Leech collector", "Pool in bed of dried up stream, grassy slope" – 2 ♂♂, 3 ♀♀ (CAS). "Mendocino Calif. 3.VIII.40 J.R. Helfer" [hw] – 2 ♂♂, 2 ♀♀ (CAS). "Cal. Lake Co. 0.6 mi SE of Glenbrook 30-V-1966 Hugh B. Leech", "pool in dry streambed tributary of Kelsey cr." – 1 ♂ (CAS). "U.S.A., California, Calaveras County, Big Trees State Park, 11 July 1907, F.E. Blaisdell, coll." – 1 ex. (CAS). "Calaveras Big Trees, Cal. 11/11/23" – 1 ♂ (JBWM). "Mokel. Hill, [Mokelumne Hill, Calaveras Co.] V-18 Cal. 1893" – 1 ♂

(CAS). "Vic. Angel's Camp, Calaveras Co., Calif.", "18 April 1971 Colls: L.N. Bell & J.L. Walker" – 1 ex. (CAS). "2 mi ESE Mariposa Grove Mariposa Co.", "H.P. Chandler No. 79 Expo. 7/27/46 NE Elv. 7,000 SW" – 1 ♀ (CAS). "Miami Ranger Sta Mariposa Co. Cal.", "H.P. Chandler No. 144 and 120] Expo. 6/7/42 N Elv. 5,000 S" – 1 ♂, 1 ♀ (CAS). "Miami Ranger Sta Mariposa Co. Cal.", "H.P. Chandler No. 8 [3, 9, and 14] Expo. 6/7/42 N Elv. 4,000 S" – 3 ♂♂, 1 ♀ (CAS). "Mariposa, Calif April 29, 1952 (F.X Williams)" [hw] - 2 ♀ (CAS). "Calif. Mariposa Co. Chowchilla Mts., S. branch Iron creek, west of Stove Pipe Campground, altitude 6000 ft 5.VIII.1971 Hugh B. Leech" – 1 ♂ (CAS). "Miami Cal", "June" – 2 ♀♀ (CAS). "Calif. Madera Co. Roadside stream alt. 7120', ca. 1 air mi W Chilkoote lake 10.VIII.1971 Hugh B. Leech" – 1 ♂ (CAS). "Calif. Madera Co. Stream in Boggy Meadow, 4.75 mi airline ESE Fish Camp 6400' Aug. 9, 1971 H. Leech" – 2 ♀♀ (CAS). "Soquel Basin, Cal. Madera Co. 7/4/1946", "H.P. Chandler No. 76 Expo. //4 NE Elv. 5,000 SW" – 1 ♀ (CAS). "Bass Lake, Calif. Madera Co. 7/1/1946", "H.P. Chandler No. 9 [and 25] Expo. //4 NE Elv. 3,000 SW" – 2 ♀♀ (CAS). "Calif. Fresno Co. End Stump Springs road to Aspen Mdw, Alt. 6350' W. of Huntington lake, August 26, 1971. H.B. Leech" – 1 ♀ (JBWM). "Calif. Fresno Co. S. Fk. Tamarack cr. at Tamarack Meadow alt. 7440', ca. 6", "mi airline south of Huntington L. 2.IX.1971 Pools in drying stream bed, Hugh B. Leech coll." – 1 ♀ (CAS).

USA: Oregon: "Dilley Or. [Washington Co.]" – 1 ♂, 1 ex. (CAS).

The species was recently described and reported from south-western Oregon: Klamath County and northern California: Sonoma County (LARSON et al. 2000). The present records show that *H. klamathensis* is wide spread in Oregon and northern California.

***Hydroporus larsoni* NILSSON** [*fuscipennis* or *planus* group]

USA: Montana: "MONT: Gallatin Co. E. Gallatin R. 4630' 14 June 1989, pond D.L. Gustafson col." – 1 ex. (MSUB). "MONT: Gallatin Co. E. Gallatin R. 4650' 14 Apr 1987 D.L. Gustafson col." – 1 ex. (MSUB). First record from Montana.

***Hydroporus occidentalis* SHARP** [*appalachius* group]

USA: Oregon: "USA: Oregon, 1976 Douglas Co. Horse Lake, 10.9. leg. H.B. Leech" – 1 ♂, 3 ♀♀ (NMW).

USA: Wyoming: "USA, Wyoming, 120 km S Jackson, 30 km S Afton leg. Wewalka, 17.7.1996 (9)" – 1 ♂ (CGW).

The species was recorded from Oregon and Wyoming by GORDON (1969).

***Hydroporus pubescens* (GYLLENHAL)** [*fuscipennis* or *planus* group]

Georgia: "Gruziya, okr. [near] Kutaisi v ruche' [in the stream] 1.II.1987 leg. K. Makarov" – 1 ♂ (MSU). First record from Georgia.

***Hydroporus rufinasus* MANNERHEIM** [*puberulus* group]

USA: Minnesota: "USA, Minnesota Mille Lacs, 28.9.89 leg. Wewalka" – 1 ♂, 2 exs. (CGW). First record from Minnesota.

***Hydroporus sinuatipes* FALL** [*sinuatipes* group]

Canada: Alberta: "CA: Alberta, Silver Lake 1.07.1984, Lot 3 B.F. & J.L. Carr coll." – 2 ♀♀ (CHS). First record from Alberta.

The species is known from California, Oregon, Washington, 1 ♀ and south-western British Columbia. According to the present record the species probably occurs through southern British Columbia to southern Alberta.

***Hydroporus striola* (GYLLENHAL)** [*striola* group]

USA: Utah: "Saratoga Utah Co. Ut 7-7-58" – 1 ♂ (JBWM). "Lake 24 Uintah Mts. Duchesne Co. Ut 9-12-59" – 2 ♂♂ (JBWM). "Utah, Summit Co. Beaver Crk. @ Hwy 150 Cobblestone Campground X-12-1979, G. Challet" – 1 ex. (CGC). First record from Utah.

USA: Oregon: "Perry, Oregon 14.VI.84 Lot 2 B.F. & J.L. Carr" – 1 ♀ (CNC).

The species was recorded from Oregon by GORDON (1969).

***Hydroporus tristis* (PAYKULL)** [*tristis* group]

USA: Minnesota: "USA, Minnesota Mille Lacs, 28.9.89 leg. Wewalka" – 2 exs. (CGW).

The species was recorded from Minnesota by GORDON (1969).

USA: Montana: "MONT: Flathead Co. Glacier Nat. Park pond near Fish Cr. 11 Sept 1991 D.L. Gustafson col." – 1 ♂ (MSUB). First record from Montana.

***Hydroporus transpunctatus* CHANDLER**

[*transpunctatus* group]

Canada: Alberta: "CA: Alberta, Silver Lake 1.07.1984, Lot 3 B.F. & J.L. Carr coll." – 3 ♂♂, 1 ♀ (CHS).

USA: Montana: "MONT: Gallatin Co. Langhor Rd. trib. 20 May 1994 D.L. Gustafson col." – 1 ex. (MSUB). "MONT: Gallatin Co. Blackmore Cr. 7000' 27 May 1994 D.L. Gustafson col." – 1 ♂ (MSUB). "USA Montana Meagher Co., 24 mi n. White Sulphur Spgs., Hwy. 89, 6500', 27.X.1978 R.E. & M.L. Roughley coll" – 1 ♂ (JBWM). "Logan Pass, Mont August 25 1930 M.C. Lane, Coll" – 2 ♂♂, 1 ♀, 7 exs. (OSU). First record from Montana.

USA: Idaho: "Payette Lakes Valley Co., Id 7-19-63" – 1 ex. (JBWM). First record from Idaho.

USA: Nevada: "Nevada, Washoe Co. stream under Route 27, E slope Mt. Rose 0.5 mi E top pass. 8800' alt. 27.VIII.1969. H.B. Leech" – 3 ♂♂, 1 ♀, 14 exs. (JBWM, CAS, CHS). "Nevada, Washoe Co. stream under Route 27, E slope Mt. Rose 0.8 mi E top pass. 8725' alt. 27.VIII.1969. H.B. Leech" – 2 exs. (JBWM). "Nevada: Esmeralda County, White Mtns. Sagehen Flat Spring 9200' 31-VIII-1973 Derham Giuliani" – 1 ♂, 2 exs. (CAS, JBWM). First record from Nevada.

***Hydroporus uenoi* NAKANE**

[*tristis* group]

Russia: East Siberia: "Bass. [basin] r. [river] Vitim r. Sayzhekon 1.9.1967 Kabakov" – 1 ♀ (CHS). "Sev. [severnaya = northern] Buryatiya Sr. tech. [middle part] r. B. Amalat 29.6.1967 Kabakov" – 1 ♀ (CHS). First record from East Siberia.

Mongolia: "Mongoliya, Khent. aymak r. [river] Kerulen 40 km ZYUZ [W-SW] Bayan-Obo Kerzhner 28.VII.971" – 1 ♂, 2 ♀♀ (ZISP, CHS). "Mongoliya, Tsentral'niy [Central] aymak, Kerulen Narchuk 28.VIII-3.IX.975" – 1 ♀ (CHS). "Mongoliya, Tsentral'niy aymak, Kerulen 28.VIII-3.IX.975 Emel'yanov" – 1 ♀ (ZISP). First record from Mongolia.

Zusammenfassung

Neue Verbreitungsdaten von dreizehn *Hydroporus*-Arten werden publiziert.

References

- GORDON, R.D. 1969: A revision of the *niger-tenebrosus* group of *Hydroporus* (Coleoptera: Dytiscidae) in North America. – PhD. thesis, North Dakota State University, Fargo, ND, 311 + [25] pp.
- LARSON, D.J., ALARIE, Y. & ROUGHLEY, R.E. 2000: Predaceous Diving Beetles (Coleoptera: Dytiscidae) of the Nearctic Region, with emphasis on the fauna of Canada and Alaska. – NRC Research Press, Ottawa, Ontario, Canada, 982 pp.
- NILSSON, A.N. 2001: Dytiscidae. – World Catalogue of Insects, Vol. 3. – Stenstrup: Apollo Books: 1-395.
- NILSSON, A.N. 2003a: World Catalogue of Dytiscidae - corrections and additions, 1 (Coleoptera: Dytiscidae). – Koleopterologische Rundschau 73: 65-74.
- NILSSON, A.N. 2003b: Dytiscidae, pp. 35-78. – In Löbl, I. & Smetana, A. (eds.): Catalogue of Palaearctic Coleoptera, Vol. 1. – Stenstrup: Apollo Books, 819 pp.
- SHAVERDO, H.V. 2003: A new species of *Hydroporus* from Chukotka, northern Far East of Russia (Coleoptera: Dytiscidae). – Entomological Problems 33 (1-2): 59-62.

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