

## New records of Hydraenidae and Dryopidae (Coleoptera) from the Caucasus

### Новые указания Hydraenidae и Dryopidae (Coleoptera) с Кавказа

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KEY WORDS: Coleoptera, Hydraenidae, Dryopidae, new records, Caucasus, Russia, Adygea, Krasnodarsky Krai, Abkhazia, South Ossetia.

КЛЮЧЕВЫЕ СЛОВА: Coleoptera, Hydraenidae, Dryopidae, новые указания, Кавказ, Россия, Адыгея, Краснодарский Край, Абхазия, Южная Осетия.

ABSTRACT. New data on the distribution of seven species of Hydraenidae and three species of Dryopidae from Russian Caucasus, Abkhazia and South Ossetia are provided. *Hydraena anatolica* Janssens, 1963, *Limnebius myrmidon* Rey, 1883, *Ochthebius adventicius* Jäch, 1990, *O. colveranus* (Ferro, 1979) and *O. difficilis* Mulsant, 1844 are recorded from Russia for the first time. Other new records are: *Dryops nitidulus* (Heer, 1841) (South European Territory of Russia), *D. rufipes* (Krynicky, 1832) and *Limnebius myrmidon* (Abkhazia) and *D. similaris* Bollow, 1936 (South Ossetia). The presence of *H. canakcioglu aydini* Janssens, 1968 in Krasnodarsky Krai and *H. dentipalpis* Reitter, 1888 in Adygea is confirmed.

РЕЗЮМЕ. Приводятся новые данные о распространении семи видов Hydraenidae и трёх Dryopidae на территории российского Кавказа, Абхазии и Южной Осетии. *Hydraena anatolica* Janssens, 1963, *Limnebius myrmidon* Rey, 1883, *Ochthebius adventicius* Ядч, 1990, *O. colveranus* (Ferro, 1979) и *O. difficilis* Мюльсан, 1844 впервые указаны для России; *Dryops nitidulus* (Heer, 1841) — для юга европейской части России; *D. rufipes* (Крыницкий, 1832) и *Limnebius myrmidon* — для Абхазии, *D. similaris* Bollow, 1936 — для Южной Осетии. Новыми находками подтверждено обитание *H. canakcioglu aydini* Janssens, 1968 в Краснодарском крае, *H. dentipalpis* Reitter, 1888 — в Адыгее.

#### Introduction

Catalogues providing information about the occurrence of the species in the Caucasian countries were published by Jäch and Skale [2015] (Hydraenidae) and by Kodada and Jäch [2016] (Dryopidae).

In recent years, several publications have appeared that summarize data on the Hydraenidae of Turkey [Ertorun et al., 2011], Armenia [Jäch, Skale, 2011], and the Dryopidae of Iran [Mascagni et al., 2016]. Some records of Caucasian Dryopidae were also published by Zaitzev [1934], Nikitsky et al. [2010b], and Shapovalov et al., [2012], but the knowledge of the faunal composition of these families in the Russian part of the Caucasus, as well as in Abkhazia and South Ossetia (former parts of the Soviet Union, which were included in Georgia) is still quite incomplete.

#### Material

This paper is based mainly on material collected by the first two authors, i.e., by Maxim Shapovalov in Krasnodarsky Krai and Adygea, 2011–2015, and by Alexander Prokin in South Ossetia in May 2016 and in Abkhazia and Krasnodarsky Krai in August 2016.

The specimens are deposited in the collections of the first two authors and in the Naturhistorisches Museum Wien (Vienna, Austria).

#### Results

##### Family Hydraenidae Mulsant, 1844

##### *Hydraena anatolica* Janssens, 1963

MATERIAL. **Russia**, Adygea, Maikop Distr., Sibir' River, 44°9' 19.6"N, 40°6' 37.1"E, 550 m alt., 6.IV.2013, leg. M.Saprykin, 3 exs.; **Russia**, Krasnodarsky Krai, Akhmetovskaya, Etsokha River downstream of Garnukha River mouth, T = 15.8 °C, 44°9' 1.27"N, 41°2' 31.9"E, 19.VII.2013 leg. M.Shapovalov & M.Saprykin, 2 exs.; **Russia**, Adygea, Maikopskaya River, 44°28' 49.2"N, 40°12' 12.7"E, 290 m alt., 27.X.2013 leg. M.Shapovalov, M.Saprykin, A.Motorin, 4 exs.

NOTE. New for Russia!

*Hydraena dentipalpis* Reitter, 1888

MATERIAL. **Russia**, Adygea, near Novosvobodnaya village, Phars (Fars) River, 44°22'16.2"N, 40°24'47.5"E, 14.III.2013, leg. M.Shapovalov, M.Saprykin, A. Motorin, 4 exs.; **Russia**, Adygea, near Kamennomostsky village, Mishoko River, downstream of waterfall "Amphiteatr", T = 3.5–4.3 °C, 44°16'41.0"N, 40°11'20.8"E, 450 m alt., 10.XII.2008, leg. M.Shapovalov, A.Motorin, 3 exs.

NOTE. This species was recorded from Adygea with a question mark by Nikitsky et al. [2010].

*Hydraena canackioglui aydini* Janssens, 1968

MATERIAL. **Russia**, Krasnodarsky Kray, Il' River upstream Il'skiy village, 44°47'25.1"N, 38°31'52.0"E, 17.VIII.2016, leg. A.Prokin, 1 ex.

NOTE. *Hydraena canackioglui aydini* was recorded from Krasnodarsky Kray only once [Prokin et al., 2016].

*Limnebius myrmidon* Rey, 1883

MATERIAL. **Abkhazia**, Uakumi River near Achguara, small shallow pools at river bank, 42°41'13.9"N, 41°37'17.4"E, 23.VIII.2016, leg. A.Prokin, 25 exs.; **Russia**, Krasnodarsky Kray, Bolshaya Khoshta River, near Krasnaya Volya, small shallow pools at river bank, 43°33'02.5"N, 39°53'38.8"E, 21.VIII.2016, leg. A.Prokin, 15 exs.; **Russia**, Krasnodarsky Kray, Agoy River near Tuapse, small shallow pools at river bank, 44°09'33.5"N, 39°03'23.8"E, 20.VIII.2016, leg. A.Prokin, 18 exs.; **Russia**, Krasnodarsky Kray, Il' River upstream Il'skiy village, small shallow pools at river bank, 44°47'25.1"N, 38°31'52.0"E, 17.VIII.2016, leg. A.Prokin, 22 exs.; **Russia**, Krasnodarsky Kray, Pshekha River upstream of Apsheron-sk, small shallow pools at river bank, 44°25'23.9"N, 39°47'35.9"E, 16.VIII.2016, leg. A.Prokin, 33 exs.

NOTE. New for Russia and Abkhazia! *L. myrmidon* is in need of taxonomic revision. Possibly, the Russian populations represent an undescribed species.

*Ochthebius adventicius* Jäch, 1990

MATERIAL. **Russia**, Krasnodarsky Kray, near Krasny Dagestan village, Kurdzhips River bank, pool, 44°20'8.2"N, 39°57'17.6"E, 29.VI.2015, leg. M.Shapovalov, M.Saprykin, 4 exs.

NOTE. New for Russia!

*Ochthebius colveranus* (Ferro, 1979)

MATERIAL. **Russia**, Adygea, near Novosvobodnaya village, Phars (Fars) River, 44°22'16.2"N, 40°24'47.5"E, 14.III.2013, leg. M.Shapovalov, M.Saprykin, A.Motorin, 3 exs.; **Russia**, Krasnodarsky Kray, near Makhoshevskaya village, Phars (Fars) River, 44°34'29.4"N, 40°27'27.1"E, 25.VI.2011, leg. M.Shapovalov, 2 exs.

NOTE. New for Russia!

*Ochthebius difficilis* Mulsant, 1844

MATERIAL. **Russia**, Krasnodarsky Kray, Neberdzhay River near Krymsk, 44°51'41.0"N, 37°55'27.8"E, 18.VIII.2016, leg. A.Prokin, 5 exs.

NOTE. New for Russia!

Family **Dryopidae** Billberg, 1820*Dryops nitidulus* (Heer, 1841)

MATERIAL. **Russia**, Krasnodarsky Kray, tributary of Agoy River, under half-flooded stones at river bank, 44°09'32.0"N, 39°03'47.2"E, 20.VIII.2016, leg. A.Prokin, 7 exs.; **Russia**, Krasnodarsky Kray, Shebsh River – tributary of Aphips River, near Stavropolskaya village, under half-flooded stones at river bank, 44°44'08.2"N, 38°50'13.6"E, 17.VIII.2016, leg. A.Prokin, 8 exs.

NOTE. New for South European Territory of Russia!

*Dryops rufipes* (Krynicky, 1832)

MATERIAL. **Abkhazia**, Uakumi River near Achguara, under half-flooded stones at river bank, 42°41'13.9"N, 41°37'17.4"E,

23.VIII.2016, leg. A.Prokin, 10 exs.; **Abkhazia**, Gumista River near mouth, under half-flooded stones at river bank, 43°02'18.6"N, 40°58'07.3"E, 22.VIII.2016, leg. A.Prokin, 12 exs.

NOTE. New for Abkhazia! This species was not yet recorded from Georgia. This species is in need of taxonomic revision.

*Dryops similaris* Bollow, 1936

MATERIAL. **South Ossetia**, Ertso Lake, on submerged wood among flooded *Sphagnum papillosum*, 42°28'24.7"N, 43°45'05.7"E, 1720 m alt., 07.V.2016, leg. A.Prokin, 7 exs.

NOTE. New for South Ossetia! This species was not yet recorded from Georgia.

For *Hydraena anatolica* and *Ochthebius adventicius* the records provided here significantly expand their known ranges.

By now, the fauna of Russia includes 71 species of Hydraenidae and 11 species of Dryopidae. The Hydraenidae and Dryopidae of Abkhazia and South Ossetia are still very poorly known. *Dryops viennensis* Castelnau, 1840 and *D. caspius* (Ménétriés, 1832) were recorded from Abkhazia by Zaitzev [1934], but these records need confirmation.

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## References

- Ertorun N., Jäch M.A., Kasapoğlu A., Darılmaz M.C. 2011. Checklist of the Hydraenidae (Coleoptera) of Turkey, with notes on distribution // *Zootaxa*. Vol.3055. P.22–42.
- Jäch M.A., Skale A. 2011. Annotated checklist of the Hydraenidae of Armenia (Coleoptera: Hydraenidae) // *Koleopterologische Rundschau*. Bd.81. S.93–111.
- Jäch M.A., Skale A. 2015. Family Hydraenidae Mulsant, 1844 // Löbl I., Löbl D. (eds.). *Catalogue of Palaearctic Coleoptera*. Vol. 2/1. Revised and Updated Edition. Leiden-Boston: Brill. P.130–162.
- Kodada J., Jäch M.A. 2016. Dryopidae // Löbl I., Löbl D. (eds.). *Catalogue of Palaearctic Coleoptera*, Vol. 3. Scarabaeoidea – Scirtoidea – Dascilloidea – Buprestoidea – Byrrhoidea. Revised and updated edition. Leiden: Brill. P.603–607.
- Mascagni A., Jäch M.A., Ostovan H., Ghahari H. 2016. Annotated checklist of Dryopidae and Heteroceridae (Coleoptera: Byrrhoidea) of Iran // *Zootaxa*. Vol.4144. No.3. P.354–364.
- Nikitsky N.B., Prokin A.A., Shapovalov M.I. 2010a. Family Hydraenidae // Zamotajlov A.S., Nikitsky N.B. (eds.). *Coleopterous insects (Insecta, Coleoptera) of Republic of Adyghea* (annotated catalogue of species). Maikop: Adyghe State University Publishers. P.70–71 [in Russian, with English Title].
- Nikitsky N.B., Prokin A.A., Shapovalov M.I. 2010b. Family Dryopidae. In: Zamotajlov A.S., Nikitsky N.B. (eds.): *Coleopterous insects (Insecta, Coleoptera) of Republic of Adyghea* (annotated catalogue of species). Maikop: Adyghe State University Publishers. P.128–129 [in Russian with English Title].
- Prokin A.A., Litovkin S.V., Jäch M.A. 2016 [2015]. New records of Hydraenidae and Elmidae (Coleoptera) from Russia and adjacent countries // *Fragmenta Faunistica*. Vol.58. No.2. P.99–110.
- Shapovalov M.I., Prokin A.A., L'vov V.D. 2012. New data on the fauna of families Dytiscidae, Hydrophilidae and Dryopidae (Coleoptera) of the North Caucasus // *Caucasian Entomological Bulletin*. Vol.8. No.2. P.211–212 [in Russian, with English abstract].
- Zaitzev Ph. 1934. [Uebersicht der Kaukasischen Vertreter der Unterfam. Dryopini] // *Proceedings of Zoological Sector of the Georgian Department of Transcaucasian Branch of the Academy of Sciences of the USSR*. P.1. P.33–45 [in Russian, with German Summary].