

Contribution to the study of Limoniidae in Yugoslavia

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Abstract: Of the eighty species of Limoniidae recorded for Yugoslavia 14 are new additions to the fauna. Notes are given on localities, dates of collection and number of specimens.

Key words: Limoniidae, fauna, Yugoslavia, new records.

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The fauna of Limoniidae in Yugoslavia has been scarcely investigated. The following papers should be consulted for the most important information: STROBL (1898, 1904), LANGHOFFER (1917), LACKSCHEWITZ (1928, 1940, 1941), COE (1958/59), SIMOVA (1959, 1960) and particularly MENDL (1984).

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Explanation of the abbreviations:

BH - Bosnia and Hercegovina, Cro - Croatia, M - Macedonia, MN - Monte Negro, Ser - Serbia, Sl - Slovenia, Mat - Material examined

The species new to the fauna of Yugoslavia are marked with an asterisk in the text.

LISTED SPECIES

Subfamily Pediciinae

Tribus Pediciini

**Dicranota (Paradicranota) candelisequa* STARÝ, 1981

Mat: MN - Durmitor (Donja Bukavica, 20.09.1986, 3 ♂♂, 1 ♀)

**Dicranota (Paradicranota) subtilis* LOEW 1871

Mat: MN - Durmitor (Donja Bukavica, 20.09.1986, 1 ♂)

Pedicia (Amalopis) occulta (MEIGEN, 1830)

Mat: MN - Durmitor (Mlinski potok, 5.07.1983, 1 ♂; Barno jezero, 28.08.1984, 2♂♂, leg. VUJOVIĆ; Bukavica, 29.08.1984, 1 ♂, leg. ŠIMIĆ; ŽABLJAK, 27.08.1986, 1 ♂, 1 ♀, leg. VUJOVIĆ). Ser - Kopaonik (Jovanova Ravan, 25.05.1986, 1 ♂, leg. VUKOVIĆ). M - (Šar planina 27.07.1978, 1 ♂, leg. PEROVIĆ)

Pedicia (Crunobia) littoralis (MEIGEN, 1804)

Mat: MN - (Djurdjevića Tara, 22.09.1986, 1 ♂, leg. KAĆANSKI). Ser - Goč (Stanišinci, 19.08.1982, 2 ♂♂)

Pedicia (Crunobia) riedeli (LACKSCHEWITZ, 1940)

Mat: MN - (Škrbuša 1000 m, 13.05.1986, 1 ♂, leg. KAĆANSKI; Dobropoljska over the source of Bistrica, 13.05.1986, 1 ♂, leg. KAĆANSKI)

Pedicia (Crunobia) straminea (MEIGEN, 1838)

Mat: BH - (Sarajevo, 30.06.1979, 1 ♂)

**Pedicia (Crunobia) zernyi pallens* SAVCHENKO, 1978

Mat: BH - (Izvorište Miljacke, 18.09.1984, 2♂♂, leg. KAĆANSKI). MN - Kanjon Tare (Plašnica, 20.05.1986, 1 ♂, leg. KAĆANSKI)

Tricyphona (Tricyphona) immaculata (MEIGEN, 1804)

Mat: Ser - Kopaonik (Jovanova Ravan, 21.05.1986, 1 ♂). MN - (MOJKOVAC, 25.05.1986, 1 ♂, leg. KAĆANSKI; Biograds lake effluent, 1120 m, 19.05.1986, 2♂♂, leg. KAĆANSKI)

Tribus Ulini

Ula sylvatica (MEIGEN, 1818)

Mat: Ser - (Goč, 19.06.1991, 1 ♂, leg. SMILJANIĆ)

Subfamily Hexatominae

Tribus Epiphragmmini

Austrolimnophila (Archilimnophila) unica (O.S., 1869)

Mat: MN - Durmitor (Djurdjevića Tara, 8.07.1986, 2♂♂, 1 ♀, leg. KAĆANSKI)

Austrolimnophila (Austrolimnophila) ochracea (MEIGEN, 1804)

Mat: Ser - (Goč, 22.06.1978, many ♂♂ and ♀♀; Miroč mountain, 28.06.1987, 6♂♂). Sl - (Travna Gora, 06.1971, 1 ♂, 1 ♀, leg. SIVEC)

Dactylolabis (Dactylolabis) denticulata (BERG., 1891)

Mat: MN - Durmitor (Žabljak, 07.1984, 1 ♂)

Dactylolabis (Dactylolabis) sexmaculata (MACQUART, 1826)

Mat: MN - Durmitor (Crno jezero, 3.07.1986, 4♂♂); Sl - (Krka pri Šmihelv, 26.07.1977, 1 ♂)

Dactylolabis (Dactylolabis) transversa (MEIGEN, 1804)

Mat: Sl - (Divača, 05.1971, 1 ♂)

Epiphragma ocellare (L., 1761)

Mat: Ser - (Debeli Lug, 9.06.1990, 2 ♀♀, leg. SMILJANIĆ; Goč, 19.06.1978, 2 ♂♂, 1 ♀)

Tribus Limnophilini

Eloeophila maculata (MEIGEN, 1804)

Mat: MN - (Kolašin, 17.05.1986, 1 ♂, leg. KAĆANSKI)

**Eloeophila miliaria* (EGGER, 1863)

Mat: Ser - (Goč, 19.06.1976, 2 ♂♂)

**Idiocera macroptryx* (TJEDER, 1955)

Mat: MN - Durmitor (Barno jezero, 9.07.1986, 1 ♂)

Limnophila punctata (SCHRANK, 1781)

Mat: MN - Durmitor (Žabljak, 3.07.1982, 3 ♂♂)

Limnophila pictipennis (MEIGEN, 1818)

Mat: MN - (Andrijevica, 21.05.1986, 4 ♂♂, 1 ♀). BH - Bistrica, 24.05.1986, 1 ♂; Mokranjska, 28.04.1986, 2 ♂♂; Dobropoljska, 14.05.1986, 1 ♂, leg. KAĆANSKI). Ser - (Goč, 20.06.1978, 13 ♂♂; Kopaonik, 23.05.1986, 1 ♂; Radan, 17.05.1989, 1 ♂, leg. STOJNIĆ)

Neolimnomyia (Brachylimnophila) nemoralis (MEIGEN, 1818)

Mat: MN - Durmitor (Žabljak, 08.1981, 9 ♂♂, 1 ♀; Crno Jezero, 8.06.1983, 1 ♂; Vrelo Bukavice, 15.10.1987, 1 ♂). Ser - (Goč, 18.06.1978, 1 ♂)

Neolimnomyia (Neolimnomyia) filata (WALKER, 1856)

Mat: MN - Durmitor (Mlinski potok, 5.07.1986, 2 ♂♂)

Phylidorea (Phylidorea) ferruginea (MEIGEN, 1818)

Mat: Cro - Zagreb (Podsused, 07.1980, 1 ♂, leg. PEROVIĆ)

Pilaria discicollis (MEIGEN, 1818)

Mat: Ser - (Goč, 19.06.1978, 1 ♂, 1 ♀)

Prionolabis platyptera (MACQUART, 1826)

Mat: MN - Durmitor (Mlinski Potok, 5.07.1986, 2 ♂♂; Crno Jezero, 3.07.1986, 2 ♂♂; Čeline, 26.06.1986, 3 ♂♂; Mali Štuoc, 3.06.1980, 1 ♂). Cro - (Gornji šančevi, 20.06.1976, 1 ♂). Sl - (D. Grmada, 1970, 1 ♂, 1 ♀). Ser - (Radan, 17.05.1989, 4 ♂♂, leg. STOJNIĆ)

Hexatoma (Eriocera) chirothecata (SCOPOLI, 1763)

Mat: MN - Durmitor (Gornja Bukavica, 28.06.1986, 1 ♂; Pašine vode, 27.06.1986, 1 ♂, leg. KAĆANSKI). BH - (Trnova, 13.05.1986, 1 ♂, leg. KAĆANSKI)

Hexatoma (Eriocera) cimicoides (SCOPOLI, 1763)

Mat: MN - Durmitor (Debeli namet, 23.08.1984, 1 ♂)

**Hexatoma (Eriocera) grisea* (RIEDEL, 1914)

Mat: MN - Durmitor (Pašine vode, 27.06.1986, 1 ♂, leg. KAĆANSKI). Ser - (Goč, 20.06.1978, 1 ♂)

Subfamily Eriopterinae

Tribus Cladurini

Chionea (Sphaeonophilus) alpina BEZZI, 1908

Mat: MN - Durmitor (Ledena pećina, 18.07.1986, 2 ♀)

Chionea (Sphaeonophilus) lutescens LUNDSTROM, 1907

Mat: MN - Durmitor (Vodena pećina, 1600 m, 3 ♂, Zupci, 2000 m, in cave, 2 ♂, 2 ♀, 22.06.1987, leg. PAVIĆEVIC)

Tribus Eriopterini

**Baeoura malickyi* MENDL and TJEDER, 1976

Mat: Ser - (Miroč mountain, 28.06.1987, 2 ♂, 1 ♀, leg. ŽEĆEVIC)

Erioptera (Erioptera) divisa (WALKER, 1848)

Mat: MN - Durmitor (Žabljak, 7.09.1985, 2 ♂, 1 ♀)

Erioptera (Erioptera) flavata (WESTHOFF, 1882)

Mat: Ser - (Goč, 20.06.1978, 2 ♂)

Erioptera (Erioptera) griseipennis MEIGEN, 1838

Mat: Ser - (Sopot, 10.05.1979, 1 ♂, on a trap light)

Erioptera (Erioptera) lutea MEIGEN, 1804

Mat: Cro - (Pešćenica, 14.03.1987, 5 ♂; 20.10.1977, 1 ♂; 3.08.1986, 1 ♂, leg. PEROVIC). Ser - (Resnik, 07.1987, 1 ♂, Goč, 18.06.1978, 1 ♂)

Symplecta (Symplecta) hybrida (MEIGEN, 1804)

Mat: MN - Durmitor (Žabljak, 21.09.1986, 1 ♂). Cro - (Pešćenica, 30.08.1976, 1 ♀). Ser - (Zaječar, 30.10.1986, 1 ♂, 25.06.1987., 1 ♂, leg. ŽEĆEVIC; Vel. Vlaskovac, 20.07.1987, 1 ♂, leg. ŽEĆEVIC)

Symplecta (Psiloconopa) stictica (MEIGEN, 1818)

Mat: Cro - (Pešćenica, 7.07.1976, 1 ♂, 1 ♀, 26.06.1976, 1 ♂, 1 ♀, 3.08.1976, 2 ♂, 1 ♀, leg. PEROVIC). BH - (Bjelina, 21.09.1976). M - (Taor, 3.04.1962, 1 ♂). Ser - (Dragačev, 28.04.1982, 1 ♂; Stara planina, Suvodol, 23.07.1987, many ♂♂ and ♀♀)

Tribus Molophilini

Cheilotrichia (Empeda) cinerascens (MEIGEN, 1804)

Mat: Sl - (Ljubljana, 5.06.1976, 2 ♂, 1 ♀). Ser - (Zaječar, 2.07.1986, 3 ♂)

Hoplobasis (Parilisia) areolata (SIEBKE, 1872)

Mat: Ser - (Zaječar, 25.05.1987, 1 ♂, 1 ♀, leg. ŽEĆEVIC)

Hoplobasis (Parilisia) yezoana (ALEXANDER, 1924)

Mat: Ser - (Zaječar, 26.06.1987, 2 ♂; Manastir Suvodol, Zaječar, 1.07.1987, 1 ♂)

Ilisia maculata (MEIGEN, 1804)

Mat: Ser - (Goč, 19.06.1978, 1 ♂)

Molophilus (Molophilus) appendiculatus (STAEGER, 1840)

Mat: Ser - (Goč, 18.06.1978, 1 ♂)

**Molophilus (Molophilus) cinereifrons* MEIJERE, 1920

Mat: Ser - (Goč, 20.06.1978, 1 ♂, 1 ♀)

**Molophilus (Molophilus) czizeki* LACKSCHEVITZ, 1931

Mat: MN - (Biogradsko jezero, 19.05.1986, 1 ♂, 1 ♀, leg. KAĆANSKI)

Molophilus (Molophilus) griseus (MEIGEN, 1804)

Mat: MN - (Mojkovac, 960 m, 25.05.1986, 1 ♂)

**Molophilus (Molophilus) nodicornis* LACKSCHEWITZ, 1935

Mat: MN - Durmitor (Čelina, 27.06.1986, 2 ♂♂, 1 ♀)

Molophilus (Molophilus) obscurus (MEIGEN, 1818)

Mat: Ser - (Zaječar, 16.09.1987, 1 ♂, leg. ŽEČEVIC). MN - Durmitor (Donja Bukavica, 28.06.1986, 1 ♂)

**Molophilus (Molophilus) ochraceus* (MEIGEN, 1818)

Mat: MN - (Šavnik, 30.06.1986, 1 ♂, leg. KAĆANSKI)

Molophilus (Molophilus) propinguus (EGGER, 1863)

Mat: Ser - (Zaječar, 2.06.1986, 1 ♂, 1 ♀, 25.05.1987, 1 ♂, leg. ŽEČEVIC). BH - (Sarajevo-Šip, 29.05.1979, 1 ♂)

Ormosia (Ormosia) staegeriana ALEXANDER, 1953

Mat: MN - Durmitor (Kovačka dolina, 8.07.1983, 3 ♂♂, 4 ♀♀)

Tribus Gonomyini

Dicranoptyla fuscescens (SCIUMMEL, 1829)

Mat: MN - Durmitor (Žabljak, 26.07.1983, 1 ♂). BH - (Krupa river, 7.05.1985, 1 ♂, 1 ♀, leg. KAĆANSKI). M - (Skopje, 27.07.1984, 1 ♂). Ser - (Barajevo, 2.06.1987, 1 ♂; Goc, 22.06.1978, 1 ♂)

Ellipteroides (Protogonomyia) limbatus (von ROSER, 1840)

Mat: MN - Durmitor (Kanjon Komarnica, 22.08.1986, 2 ♂♂, leg. SIMIĆ). Ser - Miroć mountain, 28.06.1987, 1 ♂, leg. ŽEČEVIC)

Gnophomyia viridipennis (GIMMERTHAL, 1847)

Mat: BH - (Bjelina, 21.09.1976, 1 ♂, leg. DIMIĆ)

Gonomyia (Gonomyia) bifida TONNOIR, 1920

Mat: Ser - (Goč, 18.06.1978, 1 ♂)

Gonomyia (Gonomyia) tenella (MEIGEN, 1818)

Mat: M - (Treskavec, 18.05.1958, 1 ♂). SI - (Ljubljana, 29.09.1981, 1 ♂)

Subfamily Limoniinae**Tribus Elephantomyiini**

**Helius flavus* (WALKER, 1856)

Mat: Ser - (Zaječar, 25.06.1987, 1 ♂, 1 ♀, leg. ZECEVIĆ). M - (Skopje, 30.05.1985, 1 ♂)

Tribus Antochini

Antocha (Antocha) vitripennis (MIGEN, 1830)

Mat: Ser - (Zaječar, 1.11.1986, many ♂♂ and ♀♀; 26.06.1987, many ♂♂ and ♀♀ caught at light; 24.05.1987, many ♂♂ and ♀♀). BH - (Sip, 19.05.1986, 1 ♂, leg. DIMIĆ);

Tribus Limoniini

Atypophthalmus inustus (MEIGEN, 1818)

Mat: Cro - (Turopolje, 12.06.1976, 1 ♂, leg. PEROVIĆ)

Dicranomyia (Dicranomyia) coeiana (NIELSEN, 1959)

Mat: MN - Durmitor (Žabljak, 26.07.1982, 1 ♂)

Dicranomyia (Dicranomyia) frontalis (STAEGER, 1840)

Mat: Sl - (Ravne, 3.05.1978, 2 ♂♂, leg. STARČEVIĆ)

Dicranomyia (Dicranomyia) mitis (MEIGEN, 1830)

Mat: Ser - (Stol, 12.05.1982, 1 ♂, 1 ♀). BH - (Sarajevo, 20.05.1977, many ♂♂, leg. DIMIĆ). MN - Durmitor (Mlinski potok, 25-27.08.1984, many ♂♂ and ♀♀)

Dicranomyia (Dicranomyia) modesta (MEIGEN, 1818)

Mat: Cro - (Osilnica, 20.07.1978, 1 ♂, leg. MILADINOV). BH - (Krupica, 13.05.1986, 1 ♂, leg. KAĆANSKI; Grbavica, 17.09.1976, 1 ♂, caught at light, leg. DIMIĆ). MN - Durmitor (Djurdjevića Tara, 8.07.1986, 1 ♂, leg. KAĆANSKI)

Dicranomyia (Dicranomyia) autumnalis (STAEGER, 1840)

Mat: Cro - (Vozlići, 25.07.1983, 1 ♂, leg. PEROVIĆ)

Dicranomyia (Glochina) sericata (MEIGEN, 1830)

Mat: Ser - (Dragačevo, on wheat, 28.04.1962, 7 ♂♂)

**Dicranomyia (Melanolimonia) caledonica* EDWARDS, 1926

Mat: MN - Durmitor (Zminje jezero, 1.06.1980, 1 ♂)

Dicranomyia (Glochina) transsilvanica LACKSCHEWITZ, 1928

Mat: MN - Durmitor (Žabljak, 5.08.1981, 1 ♂). Ser - (Zaječar, 1.07.1987, 1 ♂)

Dicranomyia (Glochina) tristis (SCHUMMEL, 1829)

Mat: Ser - (Debeli Lug, 8.06.1990, 2 ♂♂, leg. ČKRKIĆ; Goč, 19.06.1978, 1 ♂, leg. VUKOVIĆ)

Libnotes (Afrolimonia) ladogensis (LACKSCHEWITZ, 1940)

Mat: Ser (Goč, 20.06.1978, 1 ♂)

- *Limonia albifrons* (MEIGEN, 1818)

Mat: MN - Durmitor (Mlinski potok, 5.07.1986, 1 ♂; Barno jezero, 9.07.1987, 1 ♂, leg. KAĆANSKI)

Limonia flavipes (FABRICIUS, 1787)

Mat: MN - Durmitor (Crno jezero, 3.07.1986, 1 ♂, Barno jezero, 26.08.1984; Biogorska river, 1090 m, 1 ♂, leg. KAĆANSKI; Krško jezero, 25.08.1984, 2 ♂♂, Kovačka dolina, 8.07.1983, 4 ♂♂, 3 ♀♀). Ser - (Goč, 19.06.1976, 1 ♂, 22.06.1978, 2 ♂♂; Debeli lug, 8.06.1990, 1 ♂, 1 ♀, leg. SMILJANIĆ). Cro - (Pešćenica, 05.1977, 1 ♂, leg. PEROVIĆ)

Limonia hercegovinae (STROBL, 1898)

Mat: MN - Durmitor (Barno jezero, 9.07.1986, 1 ♂; Crno jezero, 3.07.1986, 3 ♂♂, 1 ♀; Pašine vode, 27.06.1986, 1 ♂, leg. KAĆANSKI). BH - (Krupica, 13.05.1986, 1 ♂; Grabavica, 17.09.1976, 4 ♂♂, 2 ♀♀, leg. DIMIĆ). Ser - (Stol, 15.05.1982, many ♂♂ and ♀♀; Goč, 20.06.1978, many ♂♂ and ♀♀; Vlasinsko jezero, 24.07.1990, 1 ♂, leg. PETROVIĆ; Debeli lug, 8.06.1990, 1 ♂)

Limonia macrostigma (SCHUMMEL, 1829)

Mat: Ser - (Debeli lug, 9.06.1990, 2 ♂♂, leg. SMILJANIĆ)

Limonia nigropunctata nigropunctata (SCHUMMEL, 1829)

Mat: MN - Durmitor (Crno jezero, 2.07.1980, 1 ♂; Mojkovac (Plašnica, 20.05.1986, 1 ♂, leg. KAĆANSKI). Ser - (Goč, 18.06.1976, many ♂♂ and ♀♀; Rajac, 7.05.1978, 1 ♂). SI - (Međakla, 06.1969, 1 ♂, leg. SIVEC)

Limonia nubeculosa MEIGEN, 1804

Mat: MN - Durmitor (Crno jezero, 29.07.1982, 1 ♂; Djurdjevića Tara, 24.08.1985, 1 ♂, 1 ♀). BH - (Popova pećina near Prijepolje, 6.06.1980, 1 ♂, 1 ♀, leg. NONVEILLER). Ser - (Vratarnica near Zaječar, 3.10.1986, 2 ♂♂, leg. ŽEČEVIĆ; Bebića Luka near Valjevo, 2.05.1975, 1 ♂, leg. MLADI ISTRAŽIVACI). Cro - (Osijek, 19.05.1975, many ♂♂, leg. VALENČIĆ; ISTRA-VOZLIĆ, 22.05.1977, 1 ♀, leg. PEROVIĆ; Rab, 14.05.1977, 1 ♂)

Limonia sylvicola (SCIUMMEL, 1829)

Mat: MN - (Bjelo polje near Kolašin, 05.1986, 1 ♂, 1 ♀, leg. KAĆANSKI)

Limonia tripunctata (FABRICIUS, 1782)

Mat: Widespread in Yugoslavia, from the end of April till July

Limonia trivittata (SCHUMMEL, 1829)

Mat: Ser - (Vlasinsko jezero, 22.07.1990, 2 ♂♂, 2 ♀♀, leg. PETROVIĆ)

Metalimnobia quadrinotata (MEIGEN, 1818)

Mat: MN - Durmitor (Pitomine, 25.08.1984, 1 ♂). M - (Vratnica - Popova Šapka, 4.09.1988, 1 ♂). SI - (Novo Mesto, 1.06.1976, 1 ♂)

**Metalimnobia zetterstedti* (TJEDER, 1968)

Mat: MN - Durmitor (South of Žabljak, 26.06.1982, 1 ♂)

Neolimonia dumetorum (MEIGEN, 1804)

Mat: Ser - (Debeli lug, 8.06.1990, 2 ♂♂, leg. ČRKIĆ; Goč, 18.06.1978, 1 ♂). Cro - (Istra, 19.06.1976, 1 ♂, leg. PEROVIĆ)

Rhipidia (Rhipidia) maculata (MEIGEN, 1818)

Mat: Cro - (Osilnica, 19.07.1978, 1 ♂, leg. MILADINOV; Istra, 20.10.1977, 1 ♂, leg. PEROVIĆ). Ser - (Zaječar, 29.09.1987, 1 ♂, leg. ZEČEVIC). Sl - (Ljubljana, 29.10.1971, 2 ♂♂, 1 ♀). MN - Durmitor (Žabljak, 20.07.1979, 1 ♂, Zminje jezero, 29.09.1987, leg. VUKOVIĆ).

SUMMARY

Of the eighty species listed in this paper, the following species are new for the fauna of Yugoslavia: *Baeoura malickyi* MENDL, *Dicranomyia caledonica* EDW., *Dicranota candelisequa* STARÝ, *Dicranota subtilis* LW., *Eloeophila miliaria* (EGG.), *Hexatoma grisea* (RIED.), *Helius flavus* (WALK.), *Idioptera macropteryx* TJED., *Metalimnobia zetterstedti* (TJED.), *Molophilus cinereifrons* MEIJ., *Molophilus czizeki* LACKSCHI., *Molophilus nodicornis* LACKSCHI., *Molophilus ochraceus* (MG.) and *Pedicia zernyi pallens* SAV.

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- Dicranomyia (Glochini)* (LACQUART, 1825) (Diptera, Limoniidae)
- Mat: Ser - (Debeli lug, 8.06.1990, 2 ♂♂, leg. ČRKIĆ; Goč, 18.06.1978, 1 ♂). Cro - (Istra, 19.06.1976, 1 ♂, leg. PEROVIĆ)
- Libnotes (Afrolimonia) latogensis* (LACKSCHEWITZ, 1940) (Diptera, Limoniidae)
- Mat: Ser (Goč, 20.06.1978, 1 ♂)