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First record of the genus *Dusona* (Hymenoptera: Ichneumonidae: Campopleginae) from the Ukrainian Carpathians

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Varga, O. First record of the genus *Dusona* (Hymenoptera: Ichneumonidae: Campopleginae) from the Ukrainian Carpathians. — Twelve species of the genus *Dusona* Cameron, 1901 recorded from the Ukrainian Carpathians are listed. Of them, *D. confusa* (Förster, 1868), *D. mercator* (Fabricius, 1793), *D. nebulosa* Horstmann, 2004, *D. petiolator* (Fabricius, 1804), *D. subimpressa* (Förster, 1868), and *D. vidua* (Gravenhorst, 1829) are first records for the Ukrainian fauna.

Key words: Darwin wasps, parasitoids, new records, Ukraine.

Варга, О. Перша знахідка роду *Dusona* (Hymenoptera: Ichneumonidae: Campopleginae) в Українських Карпатах. — В даній роботі наведені дванадцять видів роду *Dusona* що виявлені на території Українських Карпат. Серед них, *D. confusa* (Förster, 1868), *D. mercator* (Fabricius, 1793), *D. nebulosa* Horstmann, 2004, *D. petiolator* (Fabricius, 1804), *D. subimpressa* (Förster, 1868), and *D. vidua* (Gravenhorst, 1829) вперше вказані для фауни України.

Ключові слова: їздці-іхневмоніди, паразитоїди, нові знахідки, Україна.

Introduction

Dusona Cameron, 1901 is a species-rich genus of the subfamily Campopleginae represented by almost 450 species worldwide (Yu *et al.*, 2016), of them 120 species occur in Europe (Horstmann, 2009, 2011). The Ukrainian list contains only 40 species recorded mostly by Horstmann (2011).

The members of the genus Dusona act as endoparasitoids of lepidopterans (Yu *et al.*, 2016).

The aim of the present paper is to provide a list of the Darwin wasps of the genus *Dusona* distributed in the Ukrainian Carpathians including six species recorded from Ukraine for the first time.

Materials and Methods

This study is based on specimens collected by the author during the field trips in the Ukrainian Carpathians in 2009–2012 and deposited in the collection of the Schmalhausen Institute of Zoology, Kyiv (SIZK). Images were taken with a Leica Z16 APO microscope equipped with Leica DFC 450 camera and processed by LAS Core software at SIZK. First Ukrainian records marked with asterisk.

List of species

Dusona angustifrons (Förster, 1868)

Material examined. UKRAINE: Ivano-Frankivsk Region, Vushkiv, 48.742229 N, 23.681654 E, sweeping, 18.07.2010, 1 ♀ (O. Varga) (SIZK).

Dusona bicoloripes (Ashmead, 1906) (fig. 1)

Material examined. UKRAINE: Transcarpathian Region, Svydovets, 2–3 km NW of Kvasy, 48.144694 N, 24.270809 E, 750 m, beech forest, sweeping, 5.06.2010, 1 ♀; Ivano-Frankivsk Region, Manyava, 48.633460 N, 24.310185 E, 650 m, mixed forest, sweeping, 28.vi.2009, 1 ♀ (O. Varga) (SIZK).

Dusona confusa (Förster, 1868)*

Material examined. UKRAINE: Transcarpathian Region, Marmarosy, 11–12 km SE of Dilove, 47.925407 N, 24.311800 E, 1550 m, subalpine zone, m. Pip-Ivan, sweeping, 11.08.2009, 1 ♀ (O. Varga) (SIZK).

Dusona flagellator (Fabricius, 1793)

Material examined. UKRAINE: Ivano-Frankivsk Region, Mochary, 48°50'51.17"N, 24°35'26.91"E, 300–350 m, mixed forest, 5 km NE of Bogorodchany, sweeping, 31.08.2009, 1 ♂ (O. Varga) (SIZK).

Dusona limnobia (Thomson, 1887)

Material examined. UKRAINE: Transcarpathian Region, slopes of m. Sheshul, 48°09'23.13"N, 24°21'27.15"E, 1400–1500 m, subalpine zone, 6–7 km E of Kvasy, sweeping, 27.05.2011, 1 ♂ (O. Varga) (SIZK).



Figs 1–4. *Dusona* spp., lateral view of habitus: 1 — *D. bicoloripes*, female; 2 — *D. petiolator*, female; 3 — *D. pugillator*, female; 4 — *D. subimpressa*, male. Scale bar = 1 mm.

Dusona mercator (Fabricius, 1793)*

Material examined. UKRAINE: Transcarpathian Region, slopes of m. Sheshul, 48°09'23.13"N, 24°21'27.15"E, 1400–1500 m, subalpine zone, 6–7 km E of Kvasy, sweeping, 16–18.06.2012, 1 ♂, (O. Varga) (SIZK).

Dusona nebulosa Horstmann, 2004*

Material examined. UKRAINE: Ivano-Frankivsk Region, Mochary, 48°50'51.17"N, 24°35'26.91"E, 300–350 m, mixed forest, 5 km NE of Bogorodchany, sweeping, 3.08.2011, 1 ♂ (O. Varga) (SIZK).

Dusona petiolator (Fabricius, 1804)* (fig. 2)

Material examined. UKRAINE: Transcarpathian Region, Marmarosy, 11–12 km SE of Dilove, 47.925407 N, 24.311800 E, 1550 m, subalpine zone, m. Pip-Ivan, sweeping, 11.08.2009, 1 ♀ (O. Varga) (SIZK).

Dusona pugillator (Linnaeus, 1758) (fig. 3)

Material examined. UKRAINE: Transcarpathian Region, Marmarosy, 11–12 km SE of Dilove, 47.925407 N, 24.311800 E, 1550 m, subalpine zone, m. Pip-Ivan, sweeping, 11.08.2009, 1 ♀ (O. Varga) (SIZK).

Dusona subimpressa (Förster, 1868)* (fig. 4)

Material examined. UKRAINE: Ivano-Frankivsk Region, Mochary, 48°50'51.17"N, 24°35'26.91"E, 300–350 m, mixed forest, 5 km NE of Bogorodchany, 3.05.2011, 1 ♂ (O. Varga) (SIZK).

Dusona tenuis (Förster, 1868)

Material examined. UKRAINE: Ivano-Frankivsk Region, Mochary, 48°50'51.17"N, 24°35'26.91"E, 300–350 m, mixed forest, 5 km NE of Bogorodchany, sweeping, 31.08.2009, 1 ♀; Ivano-Frankivsk, Vovchynets, 48.961303 N, 24.750302 E, 280 m, mixed forest, sweeping, 27.05.2009, 1 ♂ (O. Varga) (SIZK).

Dusona vidua (Gravenhorst, 1829)*

Material examined. UKRAINE: Transcarpathian Region, Svydovets, 2–3 km NW of Kvasy, 48.144694 N, 24.270809 E, 750 m, beech forest, sweeping, 10.07.2011, 1 ♀ (O. Varga) (SIZK).

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