DONACIINAE (COLEOPTERA: CHRYSOMELIDAE) OF THE REPUBLIC OF MOLDOVA FAUNA

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Abstract. The Donaciinae of the Republic of Moldova (including Transnistria) fauna are reviewed based on collected material, museum collections and available literature data. In total, 14 species of Donaciinae are known from Republic of Moldova.

Introduction

The leaf beetles (Coleoptera, Chrysomelidae) is one of the largest beetle families and according to some bibliographical sources, from 35 to 50 thousand species are known in the world. Donaciinae is a subfamily of Chrysomelidae and sometimes are called longhorned leaf beetles because of the long antennae comparatively than other chrysomelids. Both the adult and larval stages feed on the same plants and occur in lotic and lentic habitats.

Materials and methods

The Donaciinae subfamily material presented in the paper includes collections (fig. 1) from the 1924-1939 years stored in the National Museum of Ethnography and Natural History [1] and the recent period (2004-2021) from the Institute of Zoology and available literature data [4-8]. Collecting was performed using standard methods: manual collecting and sweeping with a sweep net. The taxonomic identities of specimens were determined using the key [2].

Figure 1. Example of beetles from the National Museum of Ethnography and Natural History collection

Results and discussion

In the Republic of Moldova, the following species were identified:

***Genus Donacia* Fabricius, 1775**

Donacia clavipes Fabricius, 1793

General distribution: Europe, Siberia

Distribution in R.Moldova: Chişinău [1], Chişinău [4], “Iagorlîc” Scientific Reserve [5, 6, 7]

Biological data: host plants are *Phragmites* Adans., *Eleocharis* R.Br.

***Donacia cinerea* Herbst, 1784**

General distribution: Europe, Siberia.

Distribution in R.Moldova: Chişinău [4], “Iagorlîc” Scientific Reserve [5, 6, 7]

Biological data: host plants are *Typha* L., *Carex*.

***Donacia dentata* Hoppe, 1795**

General distribution: Europe, Middle Asia.

Distribution in R.Moldova: Chişinău [1], Merenesti [7]

Biological data: host plants are *Sagittaria sagittifolia* and *Alisma plantagoaquatica*

***Donacia brevicornis* Ahrens, 1810**

General distribution: Europe

Distribution in R.Moldova: Ploti [7], Badragii vechi, 14.07.2016

Biological data: host plants are *Scirpus lacustris* and *Carex* L.

***Donacia simplex* Fabricius, 1775**

General distribution: Palearctic region

Distribution in R.Moldova: Goian (Transnistria) [1], Tighina (Bender) [4], “Iagorlîc” Scientific Reserve [7]

Biological data: host plants are *Sparganium* L., *Glyceria* L., *Carex* L.

***Donacia polita* Kunze, 1818**

General distribution: Northern Africa to South and Eastern Europe.

Distribution in R.Moldova: Chişinău, [4]

Biological data: host plants are *Sparganium* L., *Glyceria* L.

***Donacia antiqua* Kunze, 1818**

General distribution: Europe

Distribution in R.Moldova: Chişinău, [1]

Biological data: *Carex* L.

***Donacia bicolora* Zschach, 1788**

General distribution: Europe.

Distribution in R.Moldova: Chişinău, [4]

Biological data: host plants are *Sparganium* L., *Carex* L.

***Donacia marginata* Hoppe, 1795**

General distribution: Northern Africa, Europe, Middle Asia

Distribution in R.Moldova: Chişinău [1]

Biological data: host plants are Sparganium L. and Carex L.

***Donacia semicuprea* Panzer, 1796**

General distribution: Northern and Middle Europe

Distribution in R.Moldova: Goian (Transnistria), Chişinău [1]

Biological data: host plants *Glyceria aquatica* L.

***Donacia versicolorea* (Brahm, 1790)**

General distribution: Europe

Distribution in R.Moldova: ubiquitous [4]

Biological data: host plants are *Typha* L., *Potamogeton* L.

Genus *Plateumaris* Thomson, 1859

Plateumaris affinis (Kunze, 1818)

General distribution: Europe

Distribution in R.Moldova: r.Orhei, s.Vatici, 20.05.1978 (fig. 2a)

Biological data: host plants are *Sparganium* L., *Carex* L.

***Plateumaris bracata* (Scopoli, 1772)**

General distribution: Spain to Central Asia

Distribution in R.Moldova: Chişinău [4]

Biological data: host plants are *Phragmites australis*, *Eriophorum*

***Plateumaris sericea* (Linnaeus, 1758)**

General distribution: Palearctic region

Distribution in R.Moldova: Goian (Transnistria) [8]; r.Orhei, s.Ivancea, 12.05.1968; (fig. 2b) Rădenii vechi, 19.05.2006; Țaul, 20.06.2004

Biological data: host plants are *Carex* L., *Iris* L., *Sparganium* L.

a

b

Figure 2. *Plateumaris affinis* (a) and *Plateumaris sericea* (b)

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