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FIRST DOCUMENTED RECORD OF *GRAPTUS WEBERI* (PENECKE, 1901) (COLEOPTERA: CURCULIONIDAE: ENTIMINAE) IN IVANO-FRANKIVSK REGION (UKRAINE)

Сумароков, О. М., Назаренко, В. Ю. Перша підтверджена знахідка *Graptus weberi* (Penecke, 1901) (Coleoptera: Curculionidae: Entiminae) в Івано-Франківській області (Україна). *Вісті Харківського ентомологічного товариства*. 2023. Т. XXXI, вип. 1. С. 5–7. DOI: 10.36016/KhESG-2023-31-1-1.

Гірський нелітаючий жук-довгоносик *Graptus weberi* раніше був відомий за літературними даними з семи областей Правобережної України. З них достатньо документованими виявилися лише три (Закарпатська, Львівська, Чернівецька), оскільки для них були вказані конкретні місця виявлення. Знахідка цього виду в Івано-Франківській області підтверджує наявні дані щодо його розповсюдження на території Карпатського гірського масиву. Відомості щодо поширення *G. weberi* на схід від Карпат до Вінницької області включно вимагає підтвердження. 3 рис., 9 назв.

Ключові слова: Coleoptera, Curculionidae, Entiminae, *Graptus weberi*, жуки, довгоносики, Україна, Івано-Франківськ, фауна.

Sumarokov, O. M., Nazarenko, V. Yu. First documented record of *Graptus weberi* (Penecke, 1901) (Coleoptera: Curculionidae: Entiminae) in Ivano-Frankivsk Region (Ukraine). *The Kharkov Entomological Society Gazette*. 2023. Vol. XXXI, iss. 1. P. 5–7. DOI: 10.36016/KhESG-2023-31-1-1.

Mountain flightless weevil *Graptus weberi* was previously known from literature data from seven regions of western Ukraine. Only three of them (Zakarpattia, Lviv, Chernivtsi) were convincingly documented, as specific localities were indicated for them. The finding of this species in Ivano-Frankivsk Region confirms the available data on its distribution in the Carpathian mountain range. The information on the distribution of *G. weberi* east of the Carpathians up to and including Vinnytsia Region needs to be confirmed. 3 figs, 9 refs.

Keywords: Coleoptera, Curculionidae, Entiminae, *Graptus weberi*, beetles, weevils, Ukraine, Ivano-Frankivsk, fauna.

Сумароков, А. М., Назаренко, В. Ю. Первая подтверждённая находка *Graptus weberi* (Penecke, 1901) (Coleoptera: Curculionidae: Entiminae) в Івано-Франковской области (Украина). *Известия Харьковского энтомологического общества*. 2023. Т. XXXI, вып. 1. С. 5–7. DOI: 10.36016/KhESG-2023-31-1-1.

Горный нелетающий жук-долгоносик *Graptus weberi* был ранее известен по литературным данным из семи областей Правобережной Украины. Из них достаточно документированными оказались только три (Закарпатская, Львовская, Черновицкая), поскольку для них были указаны конкретные места обнаружения. Находка этого вида в Івано-Франковской области подтверждает имеющиеся данные о его распространении на территории Карпатского горного массива. Сведения о распространении *G. weberi* восточнее Карпат по Винницкую область включительно требует подтверждения. 3 рис., 9 назв.

Ключевые слова: Coleoptera, Curculionidae, Entiminae, *Graptus weberi*, жуки, долгоносики, Украина, Івано-Франковск, фауна.

Introduction. The genus *Graptus* Schoenherr, 1823 contains 28 species distributed in Europe, SW Asia and the Canary Islands. Six of them (*G. carpathicus* (Reitter, 1901), *G. circassicus* (Solari, 1945), *G. kaufmanni* (Stierlin, 1884), *G. steppensis* Davidian, Arzanov et Korotyaev, 2004, *G. triguttatus* (Fabricius, 1775), *G. weberi* (Penecke, 1901) were recorded from Ukraine (Yunakov *et al.*, 2018).

Flightless weevils of the genus are poorly known because of hidden life, narrow distribution, intraspecific variability, questionable status of some species and subtle differences between them. *Graptus weberi* (Penecke, 1901) was previously recorded from Zakarpattia and Lviv regions (Yunakov *et al.*, 2018).

Materials and methods. Single female of *G. weberi* was collected in Zhenets forest district near Tatariv of Ivano-Frankivsk Region by the first author. The taxonomy is adopted from Alonso-Zarazaga *et al.* (2023). The photographs of specimen have been taken using Leica Z16 APO stereo-microscope equipped with a Leica DFC 450 camera and processed with LAS v. 3.8 software, then edited with GIMP v. 2.8.4 and Inkscape v. 0.48.4 r9939. Coordinates missed in labels data were obtained as text-derived using Google Maps. Mapping was done using modified terrain map of Ukraine (<https://www.maps-of-the-world.org/europe/ukraine/large-relief-map-of-ukraine>).

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Results and discussions.

Family CURCULIONIDAE

Subfamily ENTIMINAE Schoenherr, 1823

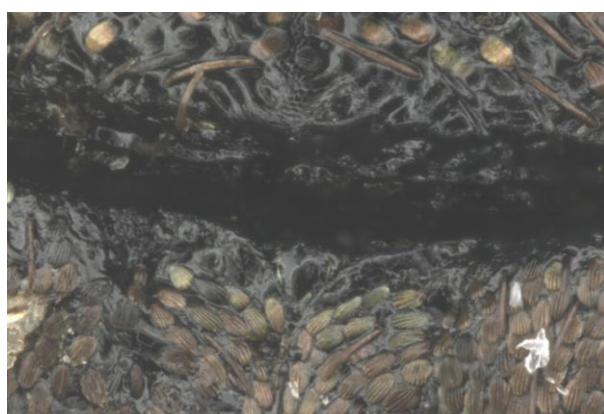
Tribe BYRSOPAGINI Lacordaire, 1863

Genus *Graptus* Schoenherr, 1823

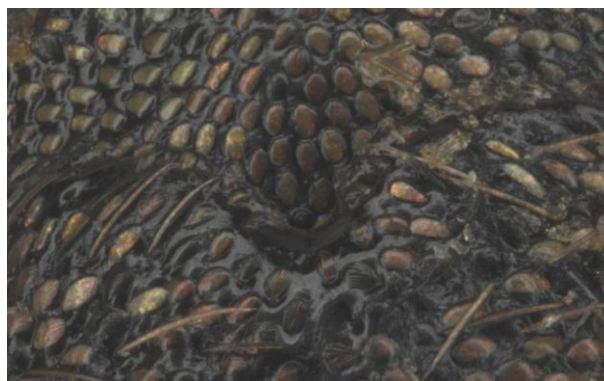
***Graptus weberi* (Penecke, 1901)**

References. Alonso-Zarazaga *et al.*, 2023; Yunakov *et al.*, 2018.

Material. Ivano-Frankivsk Region: Zhenets forest district Tatariv vill. out. (N48.3695739, E24.5515084), 2.06.2011 (A. Sumarokov) — 1 ♀ (private collection of A. Sumarokov) (Figs. 1, 3, grey circle).



A



B

Fig. 1. *G. weberi*, ♀, dorsal view.

Fig. 2. *G. weberi*, ♀, scutellum (A) and pronotal emargination (B).

Distribution. Central and South Europe and Balkans (Alonso-Zarazaga *et al.*, 2023). Ukraine: Chernivtsi, Khmelnytskyi, Lviv, Ternopil, Vinnytsia, Zakarpattia regions (Penecke, 1928, Roubal, 1941; Mazur, 2002; Davidian, Arzanov, 2004; Yunakov *et al.*, 2018) (Fig. 3). Records in three of them (Chernivtsi, Lviv, Zakarpattia) were supported with more or less complete sampling data. Findings in Khmelnytskyi, Ivano-Frankivsk, Ternopil, and Vinnytsia regions were obtained from indirect data (Fig. 3, hatching) and were not convincingly documented (Mazur, 2002; Yunakov *et al.*, 2018).

Differential diagnosis. *G. weberi* is treated sometimes as a subspecies of *G. triguttatus* and having similar genitalia morphology, but differs from this and other Ukrainian species of *Graptus* by small and nearly hairless scutellum (Fig. 2, A), sharp emargination on anterior margin of pronotum (Fig. 2, B) and epifrons almost not costate, from *G. circassicus* and *G. steppensis* also by obliquely protruding elytral setae, from *G. carpathicus* by conspicuous scutellum and smoother elytral sculpture, from *G. kaufmanni* also by even pronotal disc and almost glabrous scutellum (Penecke, 1901; Smreczyński, 1957, 1968).

Biology. The species occurs in mountain deciduous and mixed forests. Adults occur in May–August on the ground and leaves of plants. Polyphagous on herbaceous plants, in Chernivtsi environs on *Eupatorium cannabinum* L. (Penecke, 1928; Smreczyński, 1957). Immature stages unknown. Larva probably lives in soil and feeds on roots, pupation in soil chamber as in *G. triguttatus*.

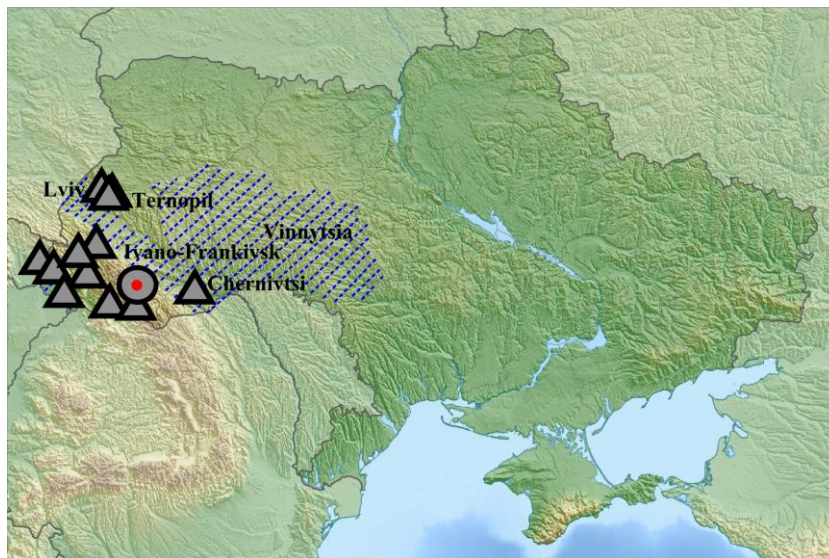


Fig. 3. Findings of *G. weberi* in Ukraine (circle marks new record, triangles — cited locations, hatching — ranges by M. Mazur (2002)).

Conclusion. This is the first documented record of *G. weberi* in Ivano-Frankivsk Region. The finding completely fits to general range in Ukraine. More likely its distribution in Ukraine is restricted to the Carpathian mountain range. The occurrence of this species in Khmelnytskyi and Vinnytsia regions needs to be confirmed.

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