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A survey of the weevils of Ukraine. Bark and ambrosia beetles (Coleoptera: Curculionidae: Platypodinae and Scolytinae)

TATYANA NIKULINA^{1,*}, MIKHAIL MANDELSHTAM^{2,3}, ALEXANDER PETROV⁴, VITALIJ NAZARENKO⁵
& NIKOLAI YUNAKOV⁶

¹*Donetsk National University, Biological Faculty, Department of Zoology and Ecology, Shchorsa, 46, Donetsk, 83050, Ukraine.*
E-mail: nikulinatanya@mail.ru

²*Saint-Petersburg State Forest Technical University, Centre for Bioinformatics and Genome Research, Institutsky per., 5, St.Petersburg, 194021, Russia*

³*Saint-Petersburg State University, Universitetskaya nab., 7/9, St.Petersburg, 199034, Russia.*
E-mail: michail@MM13666.spb.edu

⁴*Institute of Forest Science RAS, Sovetskaya st., 21, Uspenskoe, Moscow Region, 143030, Russia.*
E-mail: hylesinus@list.ru

⁵*Schmalhausen Institute of Zoology, National Academy of Sciences of Ukraine, Bohdan Khmel'ni茨kiy, 15, 01601, Kyiv, Ukraine.*
E-mail: nazarenko@izan.kiev.ua

⁶*University of Oslo, Natural History Museum, Department of Zoology, P.O. Box 1172 Blindern, NO-0318 Oslo, Norway.*
E-mail: n.yunakov@gmail.com

*Corresponding author



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& NIKOLAI YUNAKOV
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Abstract

Our knowledge of Ukrainian bark and ambrosia beetles (Coleoptera: Curculionidae: Scolytinae and Platypodinae) is summarized as a baseline for future studies of the fauna, with a checklist including information on distribution, host trees, biology and taxonomy. One hundred twenty-two species are recorded from Ukraine, of which seven are recorded for the first time. One species is recorded for the first time from Europe. Previous records of 24 species are considered dubious and requiring confirmation. In contrast to the Palaearctic Catalogue (Knížek 2011b), we consider *Anisandrus maiche* to be first described by Kurentsov (1941) rather than by Eggers (1942); *A. maiche* (Eggers, 1942) is a junior synonym of *A. maiche* (Kurentsov, 1941).

Key words: Coleoptera, Curculionidae, Scolytinae, Platypodinae, Ukraine, checklist, new records

Introduction

The taxonomic rank of bark and ambrosia beetles is a still matter of debate. Most papers dealing with faunistics and/or applied forest entomology traditionally considered these groups as well-defined beetle families – Scolytidae Latreille and Platypodidae Shuckard – distinct from weevils both morphologically and ecologically. However, new molecular genetic data along with morphological analyses of immatures and adults support treating bark and ambrosia beetles as subfamilies within Curculionidae (Thompson 1992; Lyal 1995; Marvaldi 1997; Marvaldi *et al.* 2002; Alonso-Zarazaga & Lyal 2009; Jordal *et al.* 2011).

The known world fauna includes ca. 6000 species of Scolytinae, from 230 genera and 28 tribes and ca. 1400 species of Platypodinae from 38 genera and 3 tribes (Wood & Bright 1992a,b; Alonso-Zarazaga 2009). The recently published Catalogue of Palaearctic Coleoptera (Knížek 2011b) includes 956 species of Scolytinae, in 107 genera and 21 tribes. These tribes are grouped into two supertribes: Hylesinitae and Scolytitae. Palaearctic Platypodinae count 96 species of from 11 genera and 2 tribes, that being grouped into two supertribes Platypoditae and Tesserocerinitae (Knížek 2011a).

Historical collections of Scolytinae and Platypodinae in Ukraine. Studies of bark and ambrosia beetles fauna in modern Ukraine territory proceed more than 130 years and is detailed in the recent review of Nikulina (2012). The first paper on Scolytinae that contains direct references to bark beetles for Ukraine is a fundamental work issued by Lindemann (1875–1879). In separate parts of the book there are present indications of several species of Scolytines for Ukraine (Lindemann 1875). As a second pioneering work on scolytines of Ukraine the monograph by Shevyrew “Bark beetles” (Shevyrew 1887) should be named. However, scattered references to bark beetle distribution in western provinces of Ukraine, former parts of adjacent countries, can be found in rather numerous papers by Łomnicki (1866, 1868, 1870, 1880, 1891, 1904), Miller (1868), Król (1877), Eggers (1914a,b). Some reports on bark beetles of Central and Eastern Ukraine were provided by Cherkunov (1889) and Shevyrew (1889). In the next decades the need for detailed study of wood pests has been tightly connected with the new branch of forest management appeared in the beginning of the XIX century – steppe afforestation. First results of steppe foresteries bark beetles studies were reflected in Shevyrew monograph “Description of insect pests of steppe foresteries and methods of struggle them” (Shevyrew 1893b). During the XXth century, most studies of bark and ambrosia beetles were applied research that dealt with rather few number of species bringing damage to forest economy. Due to this fact faunistic reviews for bark and ambrosia beetles for most of Ukraine regions were not

Scolytus jaroschewskii Shevyrew

Records. CRI [Eggers 1914a: 185–186; Korotnev 1926: 66; Stark 1952: 109; Sokanovsky 1954: 14; Stark 1955a: 660; Rudnev 1962: 72; Pfeffer 1995: 97; Knížek 2011b: 238.]

Distribution. Crimea, Caucasus (Stark 1952), Zentral Asia (Pfeffer 1995; Petrov 2005).

Material examined. No specimens from Ukraine were found.

Biology. On *Elaeagnus angustifolia*, *Ulmus laevis*, *U. minor* (Pfeffer 1995).

Notes. Besides the record by Eggers (1914) who described it as *S. tauricus*, a junior synonym of *S. jaroschewskii*, no further findings of this species in Ukraine were recorded. Apparently *S. jaroschewskii* can be also found in eastern provinces adjacent to Rostov Province of Russian Federation where it is known.

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