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Syntomus pallipes (Dejean, 1825) (Coleoptera: Carabidae) – ground beetle new to Belarus

Oleg Aleksandrowicz,[1] Artsiom Ostrovsky[2]

[1] Institute of Biology and Environment protection of Pomeranian University, Arciszewskiego 22b, 76-200 Słupsk, Poland, e-mail: oleg.aleksandrowicz@apsl.edu.pl
[2] Gomel State Medical University, Lange str. 5, 246000, Gomel, Belarus, e-mail: Arti301989@mail.ru

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Abstract: *Syntomus pallipes* (Dejean, 1825) was recorded for the first time in Belarus from Gomel city (SE Belarus).

Syntomus pallipes (Dejean, 1825) – nowy gatunek dla fauny Białorusi z rodziny biegaczowatych (Coleoptera: Carabidae)

Słowa kluczowe: Coleoptera, Carabidae, *Syntomus pallipes* (Dejean, 1825), pierwsza rejestracja, południowo-wschodnia Białoruś

Streszczenie: *Syntomus pallipes* (Dejean, 1825) został odnotowany po raz pierwszy na Białorusi w Homlu (Białoruś południowo-wschodnia).

Introduction

The genus *Syntomus* Hope 1838 includes 52 wide dispersed mainly tropical species (Lorenz, 2005). There are 38 species known in Palaearctic region (Kabak, 2003), in Europe – 16 species, and 4 – in Middle Europe (Persohn, 2004). Nowadays 2 species only was known in Belarus (Aleksandrowicz, 2014).

S. pallipes occurs in Eurasia and North Africa. Its range takes whole temperate and steppe zones of Eurasia: from Netherlands to the Russian Far East. In the forest zone, it is very seldom, in the steppe – more common (Persohn, 2004).

Based on the author's research conducted in the south-eastern Belarus *Syntomus pallipes* was found to occur in the country.

Material and methods

Locality: Belarus – Gomel city, (UTM UD61) (Figure 1).

The species new for the Belarus fauna: *Syntomus pallipes* (Dejean, 1825): Gomel, Auerbah str., 11.03.2016, 9 ex., in dry plant remains in the garden; ad lucem, 16.04.2016, 11 ex.; Gomel, Central City Park, sand beach of Sozh river, 28.05.2017, 2 ex., leg. A. Ostrovsky. Two specimens were with fully development wings, 20 – wingless. A material was collected by the second author by hand in 2016–2017.

Discussion

According to Kabak (2003) *S. pallipes* is distributed from North Africa and southern Europe, through the Balkans and Asia Minor to Central Asia, East Siberia and Far East.

In Central Europe occurs, but in most cases only single, in the south and south-east. From Germany, in addition to the current guidelines of Saxony, there are only old or questionable findings (Persohn, 2004). There are only old dates in Poland – more than 100 years ago (Burakowski et al., 1974; http://baza.biomap.pl/en/taxon/species-syntomus_pallipes/mapb). *S. pallipes* not found yet in north Ukraine (Putchkov, 2011).

It is interesting, that *S. pallipes* was known from large cities: Prague (Veselý, 2002) and Vienna (Hepner et al., 2008). We found all specimens in Gomel – a comparatively large city too.

Environmental requirements of *S. pallipes* are poorly known. According Persohn (2004) it prefers dry steppe habitats or light forests from lowlands to foothills. Koch (1989) considers it as an eurybiont.

According Persohn (2004) the wings are predominantly reduced. In our material 91% of specimens were wingless.

It is very rare everywhere. In Poland and Germany it has been placed on red lists of endangered species (Pawłowski et al., 2002; Schmidt et al., 2016). In Upper Silesia it is known as the extinct (Kuśka, 2007).

Conclusion

Nowadays, there are three species of the genus *Syntomus* Hope, 1838 known from Belarus, namely *S. foveatus* (Geoffroy in Fourcroy, 1785), *S. pallipes* (Dejean, 1825), *S. truncatellus* (Linnaeus, 1761).

S. pallipes is the next steppen species found in the south-eastern Belarus last decades. There were *Calosoma investigator* (Illiger, 1798), *C. denticolle* (Gebler, 1833), *Harpalus subcylindricus* (Dejean, 1829), *H. honestus* (Duftschmid, 1812), *Zabrus tenebrioides* (Goeze, 1777) (Aleksandrowicz, 2011) and *Lebia marginata* (Geoffroy, 1785) (Halinouski et al., 2015).

Figure 1. Distribution map of *Syntomus pallipes* in West Palaearctic region (according Vigna Taglianti 2013) with new date from Belarus (gray – species occurs, white – absent, black dot – new date)

Source: https://fauna-eu.org.

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