

**NOTES ON THE DISTRIBUTION OF THE RARE FUNGUS  
WEEVIL *ANTHRIBUS SCAPULARIS* GEBLER, 1833  
(COLEOPTERA: ANTHRIBIDAE) IN UKRAINE**

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**ABSTRACT:** The paper presents new faunistic information regarding the *Anthribus scapularis* Gebler, 1833 species (Coleoptera, Anthribidae) distribution in Ukraine and the Palearctic Region. An updated map of *A. scapularis* distribution in the Palearctic Region is proposed.

**KEY WORDS:** *Anthribus scapularis*, Anthribidae, Coleoptera, Palearctic Region, Ukraine

The genus *Anthribus* Geoffroy, 1762 belongs to the tribe Anthribini Billberg, 1820 of the subfamily Anthribinae Billberg, 1820 and comprises 6 species distributed in the Palearctic Region: *A. fasciatus* Forster, 1770; *A. kuwanai* (Yuasa, 1931); *A. nebulosus* Forster, 1770; *A. niveovariegatus* (Roelofs, 1879); *A. scapularis* Gebler, 1833 and *subroseus* Reitter, 1916 (Tryzna & Valenti, 2011). Until recently, *A. scapularis* had not been known from Ukraine. In this paper, we report occurrence of this species in the southern part of Ukraine (Mykolaiv region).

### MATERIALS AND METHODS

The specimens of *A. scapularis* were collected by Kizub I.V. and Krivosheev R.E. and deposited in the Kizub I.V. private collection (KI, Kyiv, Ukraine) and the collection of the I.I. Schmalhausen Institute of Zoology of the National Academy of Sciences of Ukraine (SIZ, Kyiv, Ukraine). The following keys were used for the identification of the specimens: Jacobson, 1932; Cmoluch Z. 1989; Egorov, 1996. Photographs were taken by the Canon EOS 5D Mark III camera with the Canon Macro Lens EF 100 mm 1:2.8 L IS USM and the flash Nissin MF18 Macro.

### RESULTS AND DISCUSSION

***Anthribus scapularis* Gebler, 1833** (Fig. 1)

= *constrictus* Stierlin, 1867 (*Brachytarsus*)

= *gebleri* Reitter, 1916 (*Brachytarsus*)

= *roseus* Reitter, 1916 (*Brachytarsus*)

**Material examined:** 1 ex., Southern Ukraine, the Mykolaiv region, [Voznesensk district], Aktovskiy Canyon, [Aktovo village environs, the Mertvovod river valley, 47°42'13"N 31°25'05"E], 01-02.05.2016, Kizub I.V. leg. et det. (KI). 2 ex., Ukraine, the Mykolaiv region, the Southern Bug river valley, 47°59' N, 31°00' E, 11.04.2016, Krivosheev R.E. leg., Nazarenko V.Yu. det. (SIZ).

**Geographical distribution:** *A. scapularis* is widely but fragmentally distributed in the Palearctic Region. So far, the species has been reported from southern parts of **Norway** (Strand, 1946; Silfverberg, 1992; Zachariassen, 1990; Gønget, 2003; Silfverberg, 2004; Olsen, 2007; Ødegaard et al., 2009; 2010; Tryzna & Valenti, 2011; Mikalsen, 2012; Henriksen & Hilmo, 2015; Alonso-Zarazaga, 2017), **Sweden** (Palm, 1951; Silfverberg, 1992; Lundberg, 1994; Gønget, 2003; Silfverberg, 2004; Tryzna & Valenti, 2011; Alonso-Zarazaga, 2017), **Finland** (Silfverberg, 1992; Gønget, 2003; Silfverberg, 2004; Hyvärinen, 2006; Albrecht, 2010; Tryzna & Valenti, 2011; Alonso-Zarazaga, 2017), **Denmark** (Silfverberg, 1992; Hansen, 1996; Mahler et al., 1996; Stoltze & Pihl, 1998; Gønget, 2003; Tryzna & Valenti, 2011; Jørum et al., 2012; Alonso-Zarazaga, 2017), **France** (Guillebeau, 1895; Hoffmann, 1945; Dajos, 1965), **Germany** (Gønget, 2003; Heinz & Bense, 2003; Rote Listen Bayerns, 2010; Gürlich et al., 2011; Tryzna & Valenti, 2011; Alonso-Zarazaga, 2017), **Poland** (Burakowski et al., 1992; Kubisz et al., 1998; Cmoluch Z. 1989; Pawłowski et al. 2002; Głowaciński Z., 2002; Stachowiak, 2002; Wanat & Mokrzycki, 2005; Tryzna & Valenti, 2011; Greń et al. 2012; Parusel, 2012; Szołtys et al., 2015; Alonso-Zarazaga, 2017), **Czech Republic** (Benedikt et al., 2010; Tryzna & Valenti, 2011), **Slovakia** (Tryzna & Valenti, 2011), **Latvia** (Silfverberg, 1992; Telnov, 2004; Silfverberg, 2004; Tryzna & Valenti, 2011; Alonso-Zarazaga, 2017), **Lithuania** (Pileckis, 1968; Pileckis, 1976; Silfverberg, 1992; Monsevičius, 1997; Pileckis & Monsevičius, 1997; Silfverberg, 2004; Tamutis et al., 2011; Tryzna & Valenti, 2011; Alonso-Zarazaga, 2017), **Estonia** (Silfverberg, 1992; Silfverberg, 2004; Tryzna & Valenti, 2011; Alonso-Zarazaga, 2017), **Belarus** (Alexandrovitch et al., 1996; Tryzna & Valenti, 2011; Alonso-Zarazaga, 2017), **Moldova** (Poiras, 2006; Munteanu, 2008; Bacal et al., 2013), **Bulgaria** (Angelov, 1981; Gueorguiev et al., 1998; Tryzna & Valenti, 2011; Alonso-Zarazaga, 2017), European part of **Turkey** (Tryzna & Valenti, 2011), Sicily in **Italy** (Abbazzi & Osella, 1992; Abbazzi et al., 1999; Colonelli, 2003; Audisio et al., 2014; Alonso-Zarazaga, 2017), **Algeria** (Tryzna & Valenti, 2011), European parts of **Russia** (Stierlin, 1867; Lindeman, 1871; Dwigubsky, 1892; Lebedev, 1912; Plavilstshikov, 1913; Jacobson, 1932; Frieser, 1981; Gønget, 2003; Vlasov, 2003; Silfverberg, 2004; Legalov, 2011; Tryzna & Valenti, 2011; Nikitsky & Legalov, 2016; Alonso-Zarazaga, 2017) and Asian (Frieser, 1981; Legalov & Opanassenko, 2000; Dedyukin et al., 2005; Tshernyshev & Legalov, 2008; Legalov, 2010; Dedyukin, 2012) including the Far East (Eropob, 1996; Legalov, 2010), and from Eastern **Kazakhstan** (Matesova, 1966; Legalov, 2010; Dedyukin, 2012). In the present study, we report records of *A. scapularis* from southern parts of **Ukraine**. 3 specimens of the species were collected in the Mykolaiv region in the Spring of 2016. One female of *A. scapularis* has previously been found in the Kherson region of Ukraine (Ivano-Rybal'tshansky district of the Chernomorskiy Biosphere Reserve, 46°26'55"N 32°07'51"E) in 1999 by Gorbunov V.Yu. and deposited in the Museum of Nature of Kharkiv National University (Loboda, 2017). Based on the information from literature and our new data, a map of *A. scapularis* distribution in the Palearctic Region is presented in Figs. 2 and 3. Fig. 4 shows the locality of *A. scapularis* in Ukraine.

*A. scapularis* is a relict species and is extremely rare throughout its entire range. In Norway, it is known from only a few locations in southern parts of the country (Zachariassen, 1990; Ødegaard et al., 2010; Henriksen & Hilmo, 2015) and is in the Red List of Norway (Ødegaard et al., 2009; 2010; Mikalsen, 2012; Henriksen & Hilmo, 2015). Recently, in the Red List of Norway changed the species` category from species with deficient data (Ødegaard et al., 2009) to a

vulnerable species (Ødegaard et al., 2010; Mikalsen, 2012; Henriksen & Hilmo, 2015). In Poland, *A. scapularis* is known from single location (Cmoluch, 1989; Burakowski et al., 1992; Kubisz et al., 1998; Stachowiak, 2002; Greń et al. 2012; Szoltyś et al., 2015) and is included in the Red List of Poland in the category of a species with deficient data (Pawłowski et al. 2002 Greń et al. 2012; Parusel, 2012; Szoltyś et al., 2015). Solitary findings of *A. scapularis* have also been reported from Moldova (Poiras, 2006), Bulgaria (Gueorguiev et al., 1998) and Czech Republic (Benedikt et al., 2010). *A. scapularis* is also included as a vulnerable species in the Red List of Denmark (Mahler et al., 1996; Stoltze & Pihl, 1998) and as a species with deficient data in the Red List of Italy (Audisio et al., 2014). In Italy, this species has been reported only once from Sicilia in 1932 (Abbazzi et al., 1999). In Germany, *A. scapularis* is known from the Schleswig-Holstein Land, where its last collected in 1928, and Southern Bavaria, and is included in the Red Lists of these regions as an extinct (Gürlich et al., 2011) and endangered species (Heinz & Bense, 2003; Rote Listen Bayerns, 2010), respectively. Presence of *A. scapularis* in some southern regions of the European part of Russia is documented mostly by old reports. For example, the species was reported from the Volgograd region in 1867 (Stierlin, 1867), from the Saratov region in 1903 (Sakharov, 1903), and Tatarstan in 1910 (Lebedev, 1912). In the Moscow region, the species has also been reported up to 1913 (Nikitsky & Legalov, 2016). Therefore, *A. scapularis* might be already extinct from some parts of its known range.

**Biology:** *A. scapularis* is an entomophagous species that is quite an exceptional case among curculionoid Coleoptera. The biology and trophic relations of the species are very poorly studied. It is known that *A. scapularis* larvae develop on insects of the family Coccidae Fallen, 1814 (called soft scales), in particular of the genera *Rhodococcus* Borchsenius, 1953 and *Eulecanium* Cockerell, 1900 (Opanassenko, 1966; Poiras, 2006) and the family Diaspididae Targioni, 1868 (called armored scales) leaving on the *Pinus silvestris* Linnaeus, 1753 trees (Burakowski et al., 1992; Dedyukhin, 2012). The larvae of *A. scapularis* feed on the eggs and larvae of these hosts (Matesova, 1966; Poiras, 2006). In Europe, *A. scapularis* also feed on soft scales species associated with the introduced plant *Myrica gale* Linnaeus, 1753 (Koch, 1992; Burakowski et al., 1992) and the genus *Caragana* Fabricius, 1763 in East Siberian steppe (Tshernyshev & Legalov, 2008). The species hibernates in the adult stage (Gønget, 2003).

**Comparative notes:** *A. scapularis* can be distinguished from *A. nebulosus*, another species of the genus *Anthribus* distributed in Ukraine, by the lateral border of the pronotum which is marked and sharp throughout from its base to the apex, and elytra colored brick-red with black parquet spots. From *A. fasciatus*, which also occurs in Ukraine, *A. scapularis* can be distinguished by the pronotum not narrowing from the base towards its front end, its sharp-cornered posterior angles with a deep notch at the base of the pronotum, and by the elytra interstices being of similar width and convexity.

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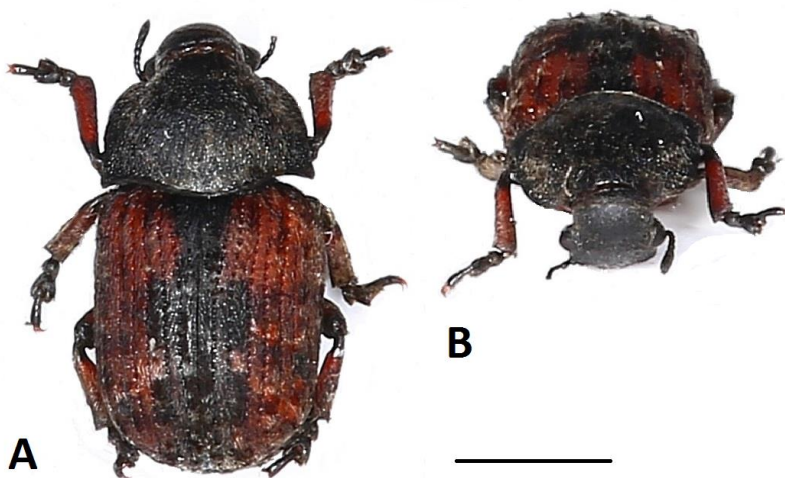


Figure 1. The habitus of *Anthribus scapularis* Gebler, 1833: A) dorsal view; B) frontal view. Scale bar = 1 mm.

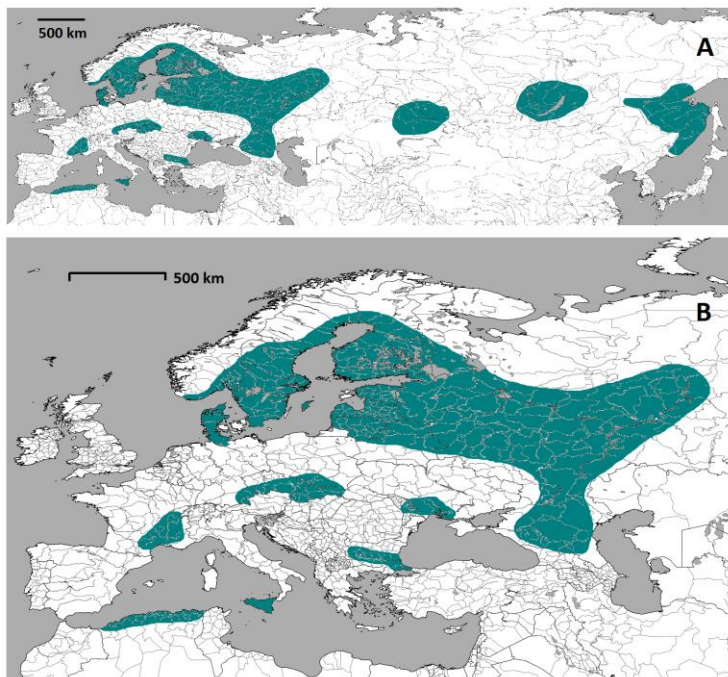


Figure 2. A map of *Anthribus scapularis* Gebler, 1833 distribution: A) entire range; B) distribution in the Western Palearctic Region.

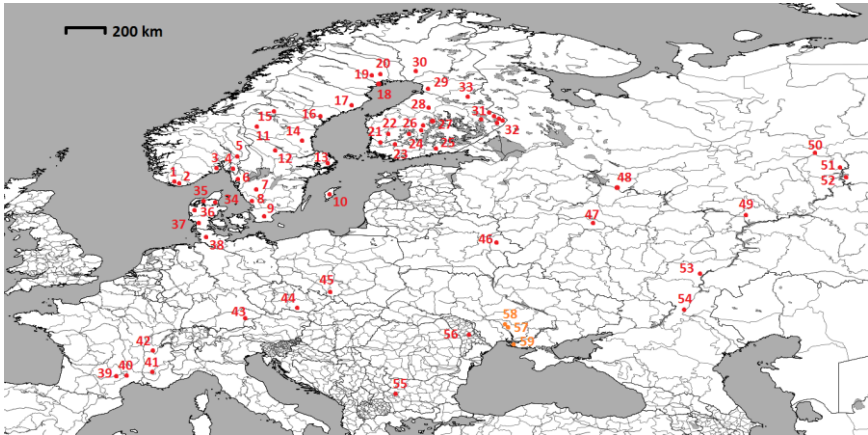


Figure 3. A map of some known localities of *Anthribus scapularis* Geblér, 1833 in the Western Palearctic Region: 1 – Lyngdal, Vest-Agder, Norway (Zachariassen, 1990; Ødegaard et al., 2010); 2 – Farsund, Vest-Agder, Norway (Zachariassen, 1990; Ødegaard et al., 2009; Henriksen & Hilmo, 2015); 3 – Budalsås, Larvik, Norway (Mikalsen, 2012); 4 – Kirkøy, Østfold, Norway (Zachariassen, 1990; Olsen, 2007; Ødegaard et al., 2010; Henriksen & Hilmo, 2015); 5 – Odal, Hedmark, Norway (Zachariassen, 1990; Ødegaard et al., 2010; Henriksen & Hilmo, 2015); 6 – Bohuslän, Sweden (Gønget, 2003); 7 – Västergötland, Sweden (Gønget, 2003); 8 – Halland, Sweden (Gønget, 2003); 9 – Skåne, Sweden (Gønget, 2003); 10 – Gotland, Sweden (Gønget, 2003); 11 – Härjedalen, Sweden (Gønget, 2003); 12 – Dalarna, Sweden (Gønget, 2003); 13 – Uppland, Sweden (Gønget, 2003); 14 – Hälsingland, Sweden (Gønget, 2003); 15 – Jämtland, Sweden (Gønget, 2003); 16 – Ångermanland, Sweden (Gønget, 2003); 17 – Västerbotten, Sweden (Gønget, 2003); 18 – Lulea, Sweden (Gønget, 2003); 19 – Norrbotten, Sweden (Gønget, 2003); 20 – Pållem, Sweden (Palm, 1951); 21, 23 – Finland Proper, Finland (Albrecht, 2010); 22 – Satakunta, Finland (Albrecht, 2010); 24, 26 – Pirkanmaa, Finland (Albrecht, 2010); 25 – Kouvola, Finland (Albrecht, 2010); 26 – Central Finland, Finland (Albrecht, 2010); 27 – Southern Ostrobothnia, Finland (Albrecht, 2010); 28, 29 – Northern Ostrobothnia, Finland (Albrecht, 2010); 30 – Rovaniemi, Finland (Albrecht, 2010); 31 – Northern Karelia, Finland (Albrecht, 2010); 32 – Lieksa and Ilomantsi, Finland (Hyvärinen, 2006); 33 – Kainuu, Finland; 34 – Tofte Skov, North Jutland, Denmark (Jørum et al., 2012); 35 – North-West Jutland, Denmark (Gønget, 2003); 36 – West Jutland, Denmark (Hansen, 1996; Gønget, 2003); 37 – The Wadden Sea Area, South Jutland, Denmark (Mahler et al., 1996; Gønget, 2003); 38 – Schleswig-Holstein, Germany (Gürlich et al., 2011); 39 – Sorèze, Tarn, France (Hoffmann, 1945; Dajos, 1965); 40 – France: Mont-Aigoual, Cévennes, France (Hoffmann, 1945; Dajos, 1965); 41 – Mont-Ventoux, Vaucluse, France (Hoffmann, 1945; Dajos, 1965); 42 – Villebois, de l'Ain, France, (Guillebeau, 1895; Hoffmann, 1945; Dajos, 1965); 43 – Southern Bavaria, Germany (Heinz & Bense, 2003; Rote Listen Bayerns, 2010); 44 – Načeratický kopec, Načeratice, Czech Republic (Benedikt et al., 2010); 45 – Bytom, Górný Śląsk, Poland (Cmoluch, 1989); 46 – Orshansko-Mogilevskij Geobotanical dist., Belarus (Alexandrovitch et al., 1996); 47 – Moscow region, Russia (Nikitsky & Legalov, 2016); 48 – Yaroslavl region, Russia (Vlasov, 2003); 49 – Kazan, Tatarstan, Russia (Lebedev, 1912); 50 – Kebraty, Permskiy Kray, Russia (Dedyukin, 2012); 51 – Sholia, Udmurtia, Russia (Dedyukin, 2012); 52 – Sokol, Udmurtia, Russia (Dedyukin, 2012); 53 – Oktiabrskiy Gorodok, Tatishievskiy dist., the Saratov region, Russia (Sakharov, 1903); 54 – Volgograd (Sarepta), Russia (Stierlin, 1867); 55 – Golo Burdo Mt., Bulgaria (Gueorguiev et al., 1998); 56 – Chişinău, Moldova (Poiras, 2006); 57 – the Southern Bug valley, the Mykolaiv region, Ukraine; 58 – Aktovskiy Canion, Voznesensk district, the Mykolaiv region, Ukraine; 59 – Ivano-Rybal'tshansky dist. of the Chernomorskiy Biosphere Reserve, Kherson region, Ukraine (Loboda, 2017).

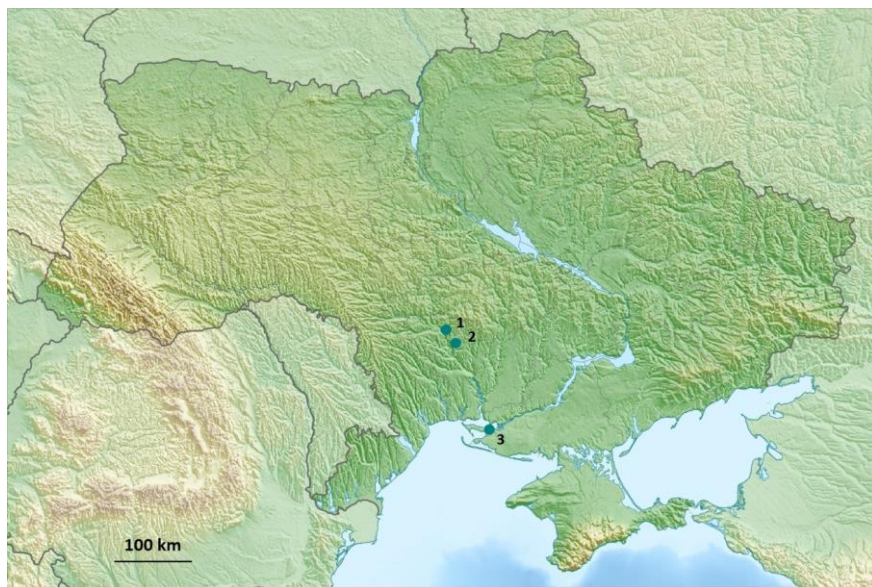


Figure 4. A map of *Anthribus scapularis* Gebler, 1833 known localities in Ukraine: 1 – the Southern Bug valley, the Mykolaiv region, Ukraine; 2 – Aktovskiy Canion, Voznesensk district, the Mykolaiv region, Ukraine; 3 – Ivano-Rybaltskansky district of the Chernomorskiy Biosphere Reserve, the Kherson region, Ukraine (Loboda, 2017).