

Revised check-list of digger wasps (Hymenoptera: Sphecidae) from the collection of N. Nedelkov at the National Museum of Natural History in Sofia

Toshko LJUBOMIROV

Introduction

High school teacher Nikola Nedelkov from Sofia published some of the first scientific reports on the Bulgarian sphecid wasp fauna (NEDELKOV, 1909; NEDELKOV, 1914). Before that only Dimitar Joakimoff (JOAKIMOFF, 1899) had reported five sphecid species in the Rila Mountain. Nedelkov did not restrict his study to a single group of insect families or to a single order. He discussed almost all main insect orders in his publications. This made the results obtained by Nedelkov rather doubtful as far as large groups were concerned, because at that time they were quite insufficiently studied from faunistic and taxonomic points of view (for instance, many Diptera; Homoptera; Hymenoptera: Ichneumonoidea, Chalcidoidea, Proctotrupoidea). However, most of the West-Palaeartic sphecid wasp species were already relatively well-known and their classification was almost completed. In species determination and reference making, Nedelkov used one of the best works on Sphecidae in Europe at that time - the work of Andrea Dahlbom (DAHLBOM, 1843-1845). Therefore, the sphecid material was to a great extent correctly determined and reported despite some misidentifications and misreports in Nedelkov's well-preserved and labelled collection containing 364 digger wasp specimens. The goal of the present study is to correct these misidentifications, to give a full list of the sphecid species reported by Nedelkov including data collected by the same author but unpublished so far. At present the whole collection of Nedelkov is deposited in five boxes in the entomological collection of the National Museum of Natural History in Sofia. The new species for the Bulgarian fauna established are marked with an asterisk.

The sphecid material in the publication of N. Nedelkov from 1909

In 1909 the paper of Nedelkov "Our Entomological Fauna" was published in the Archive of the Ministry of Education (Arhiv na Ministerstvoto na narodnoto prosvetshenie). There Hymenoptera together with many other insect groups (mostly Orthoptera and Coleoptera) was included in a list of 73 species, 11 of which were sphecids, as well as one undetermined *Cerceris* species. The sphecid material was collected by the author in Svishtov, Varna, Stara Zagora, Rhodope Mountains, Assenovgrad, Sozopol and Bourgas. Nedelkov also revised two small collections in Chirpan made by N. Botusharov and P. Dimitrov.

Sphecinae

Sceliphron (Sceliphron) spirifex (Linnaeus, 1758). *Pelopaeus spirifex*: p. 125: VII, Varna, ♀1 ; Chirpan, (P. Dimitrov), no preserved material.

Isodontia paludosa (Rossi, 1790). *Sphex paludosa*: p. 125: VII, Svishtov, no preserved material.

Podalonia hirsuta (Scopoli, 1763). *Psammophila hirsuta*: p. 125: ?VI, Rhodope Mts.: nearby Bachkovski Monastery, 1 ♀. *Psammophila affinis*: p. 125: VII, Sredna Gora Mts, 2 ♂♂, misidentified.

Ammophila heydeni Dahlbom, 1845. *Ammophila holosericea*: p. 125: VII, VIII, Bourgas, 1 ♀; Sozopol, no preserved material; Assenovgrad, no preserved material; Chirpan (N. Botusharov), no preserved material.

Ammophila sabulosa (Linnaeus, 1758). *Ammophila sabulosa* (sic): p. 125: VII, Rhodope Mts, 1 ♂, 1 ♀; VIII, Rhodope Mts, 1 ♂.

Bembicinae

Bembix oculata Panzer, 1801. *Bembex neglecta*: p. 125: VII, Varna, no preserved material; Bourgas, 1 ♀.

Bembix olivacea Fabricius, 1787. *Bembex olivacei* (sic): p. 125: VII-VIII, Bourgas, 1 ♂, 1 ♀; ?VII, Varna, 2 ♀♀; Bourgas, 1 ♀.

Philanthinae

Philanthus coronatus (Thunberg, 1784). *Philanthus coronatus*: p. 125: VII, Sredna Gora Mts., no preserved material.

Philanthus triangulum (Fabricius, 1775). *Philanthus triangulum*: p. 125: VIII, Stara Zagora, 1 ♂; ?VII, ?1916, Bourgas, 1 ♀.

Cerceris rubida (Jurine, 1807). *Cerceris* sp.: p. 124: Devnya, 1 ♀, erroneously designated by Nedelkov as male.

***Cerceris sabulosa* (Panzer, 1799).** *Cerceris minuta*: p. 124: VIII, Stara Zagora, 1 ♂.

The sphecid material in the publication of N. Nedelkov from 1914

In his "Seventh Contribution to the Entomological Fauna of Bulgaria" Nedelkov reported at least 98 sphecid species under 104 specific names. In this paper he included material published in 1909 as well. The publication appeared in 1914 and contained only data on Hymenoptera. The material was collected by N. Nedelkov (from the vicinities of Sofia), by S. Kozarov (from Stara Zagora, Kyustendil, Kostenets, Sofia and vicinities), by D. Vezhev (from Bourgas), by K. Seizov (from Provadia), by T. Penev (from Pazardzhik), by P. Ramnarov (from Svishtov), and by I. Stribrni (from Sadovo).

Sphecinae

***Sceliphron* (*Sceliphron*) *destillatorium* (Illiger, 1807).** *Sceliphron destillatorius* (sic): p. 199: VII, Vidin, 1 ♀; VII, Sofia, 1 ♂; VII, Pancharevo, 1 ♀; VII, Stara Zagora, 1 ♂, 1 ♀. *Sceliphron spirifex*: p. 199: V, Pazardzhik, 1 ♀; VII, Stara Zagora, 1 ♀; VII, Bourgas, 1 ♀, misidentified. Unpublished material: VII, Kazanlak, 1 ♀, determined - *Sceliphron spirifex*; Sadovo, 1 ♀, determined: *Sceliphron spirifex*.

***Sceliphron* (*Sceliphron*) *spirifex* (Linnaeus, 1758).** *Sceliphron spirifex*: p. 199: VII, Veliko Turnovo, 1 ♀; VII, Stara Zagora, 2 ♀♀. Unpublished material: VII, Kazanlak, 1 ♀, determined - *Sceliphron spirifex*; VIII, Sliven, 1 ♀, determined - *Sceliphron spirifex*; Stara Zagora, 2 ♀♀; Pazardjik, 1 ♂, 2 ♀♀.

***Sphex* (*Sphex*) *funerarius* Gussakovskij, 1934.** *Sphex maxillosus*: p. 199: VII, Bourgas, 1 ♂.

***Prionyx kirbii* (Vander Linden, 1827).** *Sphex albisectus*: p. 199: VII, Pancharevo, 1 ♀; VI, Ihtiman, 1 ♂; VII, Rhodope Mts.: Batchkovski Monastery, 1 ♀; VII, Bourgas, 1 ♀.

***Podalonia affinis* (W. Kirby, 1798).** *Psammophila tydei*: p. 199: VII, Rhodope Mts., 1 ♀, misidentified.

***Podalonia fera* (Lepeletier, 1845).** *Psammophila tydei*: p. 199: VI, Pancharevo, 2 ♀♀; VIII, Sofia: Pancharevo sub. 1 ♀; VII, Stara Zagora, 1 ♀, misidentified.

***Podalonia hirsuta* (Scopoli, 1763).** *Psammophila affinis*: p. 199: VII, Sredna Gora Mts., 2 ♂♂, misidentified. *Psammophila hirsuta*: p. 199: Sredna Gora Mts., 1 ♂; 1 ♀; VIII, Rila Mtn: Rilski Monastery, 1 ♀; VIII, Rila Mtn: Samokov, 1 ♀; Pazardzhik, 2 ♂♂; VII, Stara Planina Mts., 2 ♂♂, 1 ♀; VII, Sofia, 2 ♀♀; VII, Pancharevo, 1 ♀. *Psammophila tydei*: p. 199: VII, Rhodope Mts., 1 ♂;

V, Lyulin Mtn., 1 ♀; VI, Pancharevo, 1 ♀; VII, Pancharevo, 1 ♂; VI, Ihtiman, 3 ♂♂, 2 ♀♀; Byala Tcherkva, 1 ♂; IV, Sofia, 1 ♀; VI, Sofia, 1 ♀; VI, Rhodope Mts.: Batchkovski Monastery, 1 ♀, misidentified. Unpublished material: V, Lyulin Mtn, 1 ♀, determined: *Psammophila hirsuta*.

***Podalonia tydei* (Le Guillou, 1841).** *Psammophila tydei*: p. 199: VII, Svishtov, 1 ♂; VI, Sofia: Pancharevo sub., 1 ♂.

***Ammophila heydeni* Dahlbom, 1845.** *Ammophila campestris*: p. 199: VII, Pancharevo, 1 ♂, misidentified. *Ammophila heydeni*: p. 199: VI, Svoge, 1 ♀; VII, Pancharevo, 3 ♀♀; Pancharevo, 1 ♂; Sredna Gora Mts., 1 ♂, 1 ♀; VII, Haskovo, 1 ♂; VII, Bourgas, 1 ♀. Unpublished material: VIII, Pancharevo, 1 ♂, 1 ♀, determined - *Ammophila heydeni*; VIII.

***Ammophila sabulosa* (Linnaeus, 1758).** *Ammophila apicalis*: p. 199: VI, Svoge, 1 ♂; VI, Sofia: Vladaya sub., 1 ♂ (LJUBOMIROV, 2000b); VI, Vitosha Mtn., 3 ♂♂ (LJUBOMIROV, 2000b); V, Rhodope Mts., 1 ♂, misidentified. *Ammophila sabulosa*: p. 199: Vratsa, 1 ♂; VI, Vitosha Mtn., 1 ♀ (LJUBOMIROV, 2000b); VII, Vitosha Mtn., 1 ♂ (LJUBOMIROV, 2000b); VI, Sredna Gora Mts., 1 ♂; VI, Rila Mtn., 2 ♂♂; VII, Rila Mtn., 2 ♀♀; VIII, Rila Mtn.: Borovets, 1 ♂, 1 ♀; VII, Rhodope Mts., 1 ♂, 1 ♀; VIII, Rhodope Mts., 1 ♂.

Pemphredoninae

***Mimesa* sp.** *Mimesa bicolor*: p. 199: VII, Svishtov, 1 ♂. It is impossible to determinate the correct specific appurtenance - the material is damaged.

****Mimumesa atratina* (F. Morawitz, 1891).** *Mimesa bicolor*: p. 199: VII, Pancharevo, 1 ♂, misidentified. *Mimesa dahlbomi*: p. 199: VII. Pancharevo, 2 ♂♂, misidentified. Unpublished material: VIII, Pancharevo, 1 ♀, determined - *Mimumesa dahlbomi*.

***Mimumesa dahlbomi* (Wesmael, 1852).** *Mimesa dahlbomi*: p. 199: V, Sofia. 1 ♂.

***Mimumesa unicolor* (Vander Linden, 1829).** *Mimesa unicolor*: p. 199: VII, Pancharevo, 2 ♂♂, 1 ♀.

***Mimumesa* sp.** *Mimesa unicolor*: p. 199: VII, Pancharevo, 1 ♀. It is impossible to determinate the correct specific appurtenance - the material is damaged.

***Psenulus fuscipennis* (Dahlbom, 1843).** *Psenulus fuscipennis*: p. 199: V, Sofia, 1 ♀; VI, Sofia, 1 ♀.

***Psenulus pallipes* (Panzer, 1798).** *Mimesa unicolor*: p. 199: V, Sofia, 1 ♀, misidentified. *Psenulus atratus*: p. 199: VII, Pancharevo, 1 ♂, 1 ♀. *Psenulus fuscipennis*: p. 199: VI, Sofia, 2 ♀♀; VII, Stara Zagora, 2 ♂♂, determined as females, misidentified. Unpublished material: IV, Sofia, 3 ♀♀, determined - *Psenulus fuscipennis*; VI, Sofia, 1 ♀, determined - *Psenulus* sp.

***Diodontus minutus* (Fabricius, 1793).** *Diodontus luperus*: p. 196: V, Sofia, 1 ♀, misidentified.

***Pemphredon inornata* Say, 1824.** Unpublished material: IV, Sofia, 1 ♀; V, Sofia, 1 ♀; VII, Sofia, 2 ♂♂; Sofia, 2 ♂♂. All six specimens determined - *Pemphredon* sp.

***Pemphredon lethifer* (Shuckard, 1837).** Unpublished material: VIII, Vitosha Mtn.: Bistritsa vill., 1 ♀, (LJUBOMIROV, 2000b); VI, Sofia, 1 ♀; VII, Sofia, 1 ♀; VII, Pancharevo, 1 ♂, 1 ♀; Pancharevo, 1 ♀. All six specimens determined - *Pemphredon* sp.

***Pemphredon lugubris* (Fabricius, 1793).** *Pemphredon lugubris*: p. 196: VIII, Sofia, 1 ♀.

***Pemphredon morio* Vander Linden, 1829.** *Pemphredon clypealis* Thomson: VI, Sofia, 1 ♀.

***Pemphredon rugifer* Dahlbom, 1844.** Unpublished material: IV, Sofia, 1 ♀; V, Sofia, 1 ♀, determined - *Pemphredon* sp.

***Passaloecus corniger* Shuckard, 1837.** *Passaloecus corniger*: p. 196: VI, Sofia, 1 ♀. *Pemphredon clypealis*: p. 196: V, Sofia, 1 ♀, misidentified.

***Passaloecus gracilis* (Curtis, 1834).** *Passaloecus brevicornis*: p. 196: V, Sofia, 1 ♂. *Passaloecus eremita*: p. 196: VI, Sofia, 1 ♂, erroneously designated by Nedelkov as a female, misidentified. *Pemphredon clypealis*: p. 196: VI, Sofia, 1 ♀, misidentified.

****Passaloecus pictus* Ribaut, 1952.** *Passaloecus brevicornis*: p. 196: V, Sofia, 2 ♀♀.

***Passaloecus singularis* Dahlbom, 1844.** *Passaloecus tenuis*: p. 196: ?VIII, Vitosha Mtn., 1 ♀ (LJUBOMIROV, 2000b). *Stigmus solskyi*: p. 196: V, Sofia, 1 ♂, misidentified.

***Stigmus* (*Stigmus*) *solskyi* A. Morawitz, 1864.** *Stigmus solskyi*: p. 196: V, Sofia, 9 ♂♂; VI, Sofia, 1 ♂; VI, Sofia, 1 ♂, erroneously designated by Nedelkov as a female; Sofia, 1 ♀. Unpublished material: IV, Sofia, 1 ♀, determined - *Stigmus solskyi*.

Astatinae

***Astata jucunda* Pulawski, 1959.** *Astata boops*: p. 198: VII, Pancharevo, 1 ♂. *Astata minor*: p. 198: VII, Pancharevo, 1 ♀, misidentified.

***Astata minor* (Kohl, 1885).** *Astata minor*: p. 198: VI, Sofia, 1 ♂. Unpublished material: VI, Sofia, 1 ♂.

***Astata rufipes* Mocsary, 1883.** *Astata rufipes*: p. 198: VII., Pancharevo, 1 ♀. Unpublished material: VIII, Pancharevo, 1 ♂, determined - *Astata minor*.

****Dryudella picticornis* (Gussakovskij, 1927).** *Astata stigma*: p. 198: VII, Pancharevo, 1 ♀.

***Dinetus pictus* (Fabricius, 1793).** *Dinetus pictus*: p. 196: VI, Vratschanska Mtn.: Rebarkovo vill., 1 ♂; VII, Pancharevo, 1 ♀.

Crabroninae

***Larra (Larra) anathema* (Rossi, 1790).** *Larra anathema*: p. 198: VII, Stara Zagora, 1 ♂; Bourgas, 1 ♂.

***Liris (Leptolarra) niger* (Fabricius, 1775).** *Notogonia pompiliformis*: p. 198: VII, Pancharevo, 1 ♀.

***Tachytes panzeri* Dufour, 1841.** *Tachytes europaeus*: p. 197: VII, Pancharevo, 1 ♀.

***Tachysphex panzeri* (Vander Linden, 1829).** *Tachysphex panzeri*: p. 198: VII, Pancharevo, 1 ♀.

***Tachysphex pompiliformis* (Panzer, 1804).** *Tachysphex pygidialis*: p. 197: VI, Pancharevo, 1 ♀, misidentified. *Tachysphex panzeri*: p. 198: VII, Pancharevo, 1 ♀, misidentified. *Tachysphex pectinipes*: p. 198: VI, Ichtiman, 1 ♀.

***Palarus variegatus* (Fabricius, 1781).** *Palarus flavipes*: p. 197: VII, Pancharevo, 1 ♂; VII, Ichtiman, 1 ♀.

***Trypoxylon (Trypoxylon) attenuatum* F. Smith, 1851.** *Trypoxylon attenuatum*: p. 199: V, Sofia., 1 ♀.

***Trypoxylon (Trypoxylon) clavicerum* Lepeletier et Serville, 1828.** *Trypoxylon clavicerum*: p. 199: VII, Plana Mtn.: German, 1 ♀.

***Trypoxylon (Trypoxylon) figulus* (Linnaeus, 1758).** *Trypoxylon figulus*: p. 199: V, Sofia, 1 ♀; VI, Sofia, 1 ♀; VII, Sofia, 1 ♀; VII, Vitosha Mtn., 1 ♀ (LJUBOMIROV, 2000b).

***Trypoxylon (Trypoxylon) kolazyi* Kohl, 1893.** *Trypoxylon clavicerum*: p. 199: IV, Sofia, 1 ♀, misidentified.

****Trypoxylon (Trypoxylon) latilobatum* Antropov, 1991.** *Trypoxylon figulus*: p. 199: VII, Pancharevo, 1 ♀.

***Trypoxylon* spp.** *Trypoxylon figulus*: p. 199: V, Sofia, 1 ♀; VIII, Stara Zagora, 1 ♀, (both specimens are hardly damaged).

***Oxybelus bipunctatus* Olivier, 1812.** *Oxybelus bipunctatus*: p. 196: VII, Sofia, 4 ♀♀. Unpublished material: VIII, Pancharevo, 1 ♀.

***Oxybelus latro* Olivier, 1812.** *Oxybelus latro*: p. 196: VI, Ichtiman, 1 ♀. *Oxybelus latidens*: p. 196: VI, Ichtiman, 1 ♂, erroneously designated by Nedelkov as a female, misidentified.

***Oxybelus mandibularis* Dahlbom, 1845.** *Oxybelus pulchellus*: p. 196: VII, Pancharevo, 1 ♂, misidentified.

***Oxybelus mucronatus* (Fabricius, 1793).** Unpublished material: VII, Stara Zagora, 1 ♂.

***Oxybelus occitanicus* Marquet, 1896.** *Oxybelus pulchellus*: p. 196: VII, Pancharevo, 1 ♂, misidentified.

***Oxybelus quattuordecimnotatus* Jurine, 1807.** *Oxybelus quattuordecimnotatus*: p. 196: VII, Sofia, 1 ♀; Ichtiman, 1 ♀, erroneously designated by Nedelkov as a male; VII, Pancharevo, 1 ♀. *Oxybelus pulchellus*: p. 196: VII,

Pancharevo, 1 ♂, misidentified. Unpublished material: VIII, Pancharevo, 1 ♀, determined - *Oxybelus quattuordecimnotatus*.

***Oxybelus variegatus* Wesmael, 1852.** *Oxybelus pulchellus*: p. 196: VII, Pancharevo, 4 ♂♂; Pazardzik, 1 ♂.

***Entomognathus (Entomognathus) brevis* (Vander Linden, 1829).** *Crossocerus exiguus*: VII, Pancharevo, 1 ♂, erroneously designated by Nedelkov as a female, misidentified. Unpublished material: VII, Pancharevo, 2 ♂♂, 2 ♀♀, determined - *Crabro brevis*.

***Lindenius albilabris* (Fabricius, 1793).** *Lindenius albilabris*: p. 196: VI, Svoge, 1 ♂; VI, Sofia, 1 ♂; VII, Pancharevo, 1 ♂, 2 ♀♀; Pancharevo, 1 ♂; Stara Zagora, 1 ♂.

***Lindenius laevis* A. Costa, 1871.** *Lindenius albilabris*: p. 196: VI, district of Sofia, 1 ♀, misidentified.

***Rhopalum (Corynopus) coarctatum* (Scopoli, 1763).** *Rhopalum tibialis*: p. 196: V, Sofia, 1 ♀; VI, Sofia, 1 ♂.

***Crossocerus (Acanthocrabro) vagabundus* (Panzer, 1798).** *Cuphopterus vagabundus*: p. 196: ?IV, Sofia, 1 ♂.

***Crossocerus (Blepharipus) annulipes* (Lepelletier & Brullé, 1834).** *Coelocrabro gonager*: p. 196: VI, Sofia, 1 ♂; Sofia: Knyazhevo sub., 1 ♀.

***Crossocerus (Blepharipus) megacephalus* (Rossi, 1790).** *Coelocrabro leucostoma*: p. 196: ?VIII, Vitosha Mtn., 1 ♀ (LJUBOMIROV, 2000b). *Coelocrabro barbipes*: p. 196: Sofia: Dragalevtsi sub., 1 ♀ (LJUBOMIROV, 2000b), misidentified.

***Crossocerus (Crossocerus) exiguus* (Vander Linden, 1829).** *Crossocerus wesmaeli*: p. 196: Sofia, 1 ♀, misidentified.

***Crossocerus (Hoplocrabro) quadrimaculatus* (Fabricius, 1793).** *Hoplocrabro quadrimaculatus*: p. 196: VII, Sofia., 1 ♀; Sofia, 2 ♀♀.

***Crabro (Crabro) cribrarius* (Linnaeus, 1758).** *Thyreopus cribrarius*: p. 196: VII, Stara Planina Mts., 2 ♂♂, 1 ♀; VI, Rila Mtn., 1 ♂; ? "Godoyk", 1 ♀.

***Crabro (Crabro) peltarius* (Schreber, 1784).** *Thyreopus peltarius*: p. 196: VI, Sofia, 1 ♂; VI, Ihtiman, 1 ♂.

***Crabro (Crabro) scutellatus* (Scheven, 1781).** *Thyreopus scutellatus*: p. 196: V, Pancharevo, 1 ♂.

***Ectemnius (Clytochrysus) cavifrons* (Thomson, 1871).** *Clytochrysus planifrons*: p. 195: V, Sofia, 1 ♂.

***Ectemnius (Clytochrysus) lapidarius* (Panzer, 1804).** *Thyreopus peltarius*: p. 196: VII, Troyan, 1 ♀, misidentified.

***Ectemnius (Ectemnius) dives* (Lepelletier & Brullé, 1834).** *Ectemnius dives*: p. 195: VII, Pancharevo, 1 ♀. *Hoplocrabro quadrimaculatus*: p. 196: Sofia, 1 ♀, misidentified.

***Ectemnius (Hypocrabro) continuus* (Fabricius, 1804).** *Solenius vagus*: p. 195: VI, Svoge, 1 ♂; Sadovo, 1 ♂.

***Ectemnius (Hypocrabro) hypsae* (de Stefani, 1894).** *Solenius vagus*: p. 195: Sadovo, 1 ♀, misidentified.

***Ectemnius (Hypocrabro) meridionalis* (A. Costa, 1871).** *Thyreus clypeatus*: p. 195: VI, Stara Zagora, 1 ♀, misidentified.

***Ectemnius (Metacrabro) cephalotes* (Olivier, 1792).** *Crabro quadricinctus*: p. 195: ?V, Sofia, 1 ♀; VII, Sofia, 3 ♀♀; IX, Sofia, 1 ♀; Sofia, 1 ♀; Sadovo, 1 ♂, 1 ♀, misidentified.

***Lestica (Ceratocolus) alata* (Panzer, 1797).** *Ceratocolus alatus*: p. 195: Ihtiman, no preserved material. Unpublished material: VII, Stara Zagora, 1 ♂, determined - *Ceratocolus subterraneus*.

***Lestica (Clypeocrabro) clypeata* (Schreber, 1759).** *Thyreus clypeatus*: p. 195: VII, Svishtov, 1 ♀; VII, Vratsa, 1 ♀; ?VI, Sofia, 1 ♂; VII, Sofia, 1 ♂; VII, Pancharevo, 1 ♂, 2 ♀♀; VIII, Pancharevo, 1 ♂; Pazardzik, 1 ♀; Stara Zagora, 1 ♂; Haskovo, 1 ♀.

***Lestica (Lestica) subterranea* (Fabricius, 1775).** *Ceratocolus subterraneus*: p. 195: VI, Ihtiman, 1 ♀.

Bembicinae

***Mellinus arvensis* (Linnaeus, 1758).** *Mellinus arvensis*: p. 197: ?VIII, Rila Mtn.: Rilsky Monastery, 1 ♀. *Mellinus sabulosus* var. *a*: p. 197: VII, Rila Mtn., 1 ♂, misidentified. *Hoplissus laticinctus*: p. 197: VII, Sofia, 1 ♀, misidentified.

***Alysson spinosus* (Panzer, 1801).** *Alysson fuscatus*: p. 197: VII, Pancharevo, 3 ♀♀; VII, Varna, 1 ♀, (LJUBOMIROV, 2000a). *Alysson pertheesi*: p. 197: VII, Pancharevo, 1 ♂, (LJUBOMIROV, 2000a), misidentified. *Alysson ratzeburgi*: p. 197: Pancharevo, 4 ♂♂, (LJUBOMIROV, 2000a), misidentified. Unpublished material: VIII, Pancharevo, 1 ♂, determined - *Alysson ratzeburgi*, (LJUBOMIROV, 2000a).

***Didineis lunicornis* (Fabricius, 1798).** *Didineis lunicornis*: p. 197: VII, Pancharevo, 1 ♂, (LJUBOMIROV, 2000a).

***Nysson maculosus* (Gmelin, 1790).** *Nysson maculatus*: p. 197: VII, Varna, 1 ♀.

***Brachystegus scalaris* (Illiger, 1807).** *Nysson spinosus*: p. 197: VII, Pancharevo, 1 ♂, misidentified.

****Argogorytes fargeii* (Shuckard, 1837).** *Gorytes quadrifasciatus*: p. 197: VII, Stara Zagora, 2 ♂♂, misidentified.

***Harpactus elegans* (Lepeletier, 1832).** *Harpactes elegans*: p. 197: VI, Pancharevo, 1 ♂, 1 ♀.

***Gorytes quinquecinctus* (Fabricius, 1793).** *Hoplissus fallax*: p. 197: V, Sofia, 1 ♂, misidentified. *Hoplissus quinquefasciatus*: p. 197: VII, Pancharevo, 1 ♂, misidentified.

***Gorytes planifrons* (Wesmael, 1852).** *Hoplissus fallax*: p. 197: VI, Svoge, 1 ♀, misidentified.

***Lestiphorus bicinctus* (Rossi, 1794).** *Lestiphorus bicinctus*: p. 197: VII, Vitosha Mtn., 1 ♀ (LJUBOMIROV, 2000b).

***Ammatomus coarctatus* (Spinola, 1808).** Unpublished material: VII, Stara Zagora, 3 ♀♀.

***Stizus bipunctatus* (F. Smith, 1856).** *Stizus terminalis*: p. 197: VII, Stara Zagora, 1 ♂.

***Bembecinus tridens* (Fabricius, 1781).** *Stizus tridens*: p. 197: VI, Pancharevo, 2 ♀♀; VII, Pancharevo, 1 ♂.

***Bembix bicolor* (Radoszkowsky, 1877).** *Bembex oculata*: p. 197: Pazardzik, 1 ♀, misidentified.

***Bembix bidentata* (Vander Linden, 1829).** *Bembex bidentata*: p. 196: VII, Bourgas, 3 ♂♂. *Bembex megerlei*: p. 197: V, Sadovo, 1 ♂, misidentified. *Bembex rostrata*: p. 197: VII, Asenovgrad, 1 ♀, misidentified.

***Bembix megerlei* (Dahlbom, 1845).** *Bembex megerlei*: p. 197: VII, Bourgas, 6 ♂♂. *Bembex integra*: p. 197: Bourgas, 2 ♀♀, misidentified.

***Bembix oculata* (Panzer, 1801).** *Bembex oculata*: p. 197: VII, Bourgas, 1 ♀.

***Bembix olivacea* (Fabricius, 1787).** *Bembex mediterranea*: p. 197: Svishtov, 1 ♀; VII, Bourgas, 1 ♂, 1 ♀; Bourgas, 1 ♀. *Bembex oculata*: p. 197: ?VII, Varna, 2 ♀♀, misidentified. Unpublished material: VI, Svoge, 1 ♂.

***Bembix rostrata* (Linnaeus, 1758).** *Bembex rostrata*: p. 197: VI, Svoge, 2 ♂♂; VI, Pancharevo, 1 ♀; VII, Pancharevo, 1 ♀.

***Bembix tarsata* (Latreille, 1809).** *Bembex integra*: p. 197: VI, Svoge, 1 ♂; VI, Vitosha Mtn., 1 ♀ (LJUBOMIROV, 2000b); VII, Varna, 2 ♀♀.

Philanthinae

***Philanthus coronatus* (Thunberg, 1784).** *Philanthus venustus*: p. 198: VI, Iskar Riverside, 1 ♂, misidentified. Unpublished material: 1 ♀, no further data.

***Philanthus triangulum* (Fabricius, 1775).** *Philanthus triangulum*: p. 198: VIII, Stara Zagora, 1 ♂.

***Philanthus venustus* (Rossi, 1790).** *Philanthus venustus*: p. 198: VII, Pancharevo, 1 ♂. *Philanthus coronatus*: p. 198: VII, Bourgas, 1 ♀, misidentified.

***Cerceris bracteata* Eversmann, 1849.** *Cerceris bucculata*: p. 198: VII, Pancharevo, 1 ♀, misidentified.

***Cerceris flavicornis* Brullé, 1833.** *Cerceris conigera*: p. 198: VII, Stara Zagora, 1 ♂.

***Cerceris flavilabris* (Fabricius, 1793).** *Cerceris arenaria*: p. 198: VI, Sofia district, 1 ♂; VIII, Vidin, 1 ♂, misidentified.

***Cerceris interrupta* (Panzer, 1799).** *Cerceris labiata*: p. 198: VII, Pancharevo, 1 ♀.

***Cerceris lunata* A. Costa, 1869.** *Cerceris hortivaga*: p. 198: VII, Stara Zagora, 1 ♂, misidentified.

***Cerceris quadricincta* (Panzer, 1799).** *Cerceris quadricincta*: p. 198: VII, Pancharevo, 1 ♀; Pazardzik, 1 ♂. *Cerceris quadrifasciata*: p. 198: VII, Stara

Zagora, 1 ♂; VI, Pazardzik, 1 ♂, misidentified.

***Cerceris quadrifasciata* (Panzer, 1799).** *Cerceris quadrifasciata*: p. 198: VI, Vitosha Mtn., 1 ♂ (LJUBOMIROV, 2000b).

***Cerceris quinquefasciata* (Rossi, 1792).** *Cerceris arenaria*: p. 198: VII, Pancharevo, 2 ♂♂, misidentified. *Cerceris labiata*: p. 198: VII, Pancharevo, 1 ♀. *Cerceris stratiotes*: p. 198: VII, Pancharevo, 2 ♂♂, misidentified.

***Cerceris rubida* (Jurine, 1807).** *Cerceris rybyensis*: p. 198: VIII, Devnya, 1 ♀, misidentified.

***Cerceris ruficornis* (Fabricius, 1793).** *Cerceris labiata*: p. 198: VII, Pancharevo, 1 ♀. Unpublished material: Sofia, 1 ♂; Pancharevo, 1 ♂; VII, Pancharevo, 1 ♂; VIII, Pancharevo, 1 ♂. All four specimens determined - *Cerceris conigera*.

***Cerceris rybyensis* (Linnaeus, 1771).** *Cerceris rybyensis*: p. 198: VI, Vitosha Mtn., 1 ♂ (LJUBOMIROV, 2000b).

***Cerceris sabulosa* (Panzer, 1799).** *Cerceris rybyensis*: p. 198: VII, Pancharevo, 2 ♂♂; VIII, Stara Zagora, 1 ♂; VII, Haskovo, 1 ♀, misidentified. Unpublished material: VI, Sofia district, 1 ♀, determined - *Cerceris* sp.; VI, Rhodope Mts., 1 ♂, determined - *Cerceris rybyensis*; 2. VI, 1903, Sliven, 1 ♂; VIII, Ichtiman, 1 ♀.

***Cerceris stratiotes* Schletterer, 1887.** *Cerceris stratiotes*: p. 198: VI, Ichtiman, 1 ♀. *Cerceris rybyensis*: p. 198: VI, Ichtiman, 1 ♀, misidentified.

***Cerceris tuberculata* (Villers, 1789).** *Cerceris tuberculata*: p. 198: Elena, 1 ♂.

References

- DAHLBOM A. 1843-1845. Hymenoptera Europaea praecipue borealia; formis typicis nonnullis Specierum Generumve Exoticorum aut Extraneorum propter nexum systematicus associatis; per Familias, Genera, Species et Varietates disposita atque descripta. Tomus: Spheg in sensu Linneano. Lund, Officina Lundbergiana. XLIV + 528 p.
- JOAKIMOFF D. 1899. Contribution to the insect fauna of Rila Mountain. - Periodische Zeitschrift, **59**: 758-778, 858-884. (In Bulgarian).
- LJUBOMIROV T. 2000a. Overview of the species composition and the distribution of the digger wasp tribe Alyssontini (Hymenoptera: Sphecidae) from Bulgaria - Acta zool. bulg., **51** (1): 21-23.
- LJUBOMIROV T. 2000b. Preliminary studies on the digger wasp fauna (Insecta: Hymenoptera: Sphecidae) in Vitosha Mountain. - Acta zool. bulg., **51** (2-3): 43-59.
- NEDELKOV N. 1909. Our entomological fauna. - Arhiv Min. nar. prosv., **1** (3): 83-135. (In Bulgarian).
- NEDELKOV N. 1914. Seventh contribution to the entomological fauna of Bulgaria. - Revue Acad. bulg. Sci., **9**: 181-210. (In Bulgarian).

Received on 22.11.1999

Author's address:
Toshko Ljubomirov
Institute of Zoology
1, Tsar Osliboditel Blvd
1000 Sofia, Bulgaria

Ревизиран списък на видовете риещи оси (Hymenoptera: Sphecidae) от сбирката на Н. Негелков в Националния природонаучен музей в София

Тoшкo ЛЮБОМИРОВ

(Резюме)

На базата на прегледания материал от 364 сфецидни екземпляра от сбирката на гимназиалния учител и ентомолог Никола Негелков са направени редица поправки върху публикациите му от 1909 и 1914 година и са представени данни от събиран от този автор материал, които не са били публикувани досега. Съобщените от Негелков 108 вида са сведени до 107 вида от 45 рода.



Ljubomirov, Toshko. 2000. "Revised check-list of digger wasps (Hymenoptera: Sphecidae) from the collection of N. Nedelkov at the National Museum of Natural History in Sofia." *Historia naturalis bulgarica* 12, 5–15.

View This Item Online: <https://www.biodiversitylibrary.org/item/97398>

Permalink: <https://www.biodiversitylibrary.org/partpdf/200959>

Holding Institution

American Museum of Natural History Library

Sponsored by

Harvard University, Museum of Comparative Zoology, Ernst Mayr Library

Copyright & Reuse

Copyright Status: In copyright. Digitized with the permission of the rights holder.

License: <http://creativecommons.org/licenses/by-nc-sa/3.0/>

Rights: <https://biodiversitylibrary.org/permissions>

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.