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CHECKLIST OF MEGACHILIDAE (HYMENOPTERA: APOIDEA) OF THE ROMANIAN FAUNA

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Abstract. It is presented the checklist of the Romanian Megachilidae, made basing on the present literature, on the scientific collections and on the author's own investigations. Totally, in this list there are included 123 species of 21 genera belonging to two tribes and two subfamilies.

Résumé. On présente la liste des espèces de Megachilidae de Roumanie, élaborée sur la base de la littérature existante, des collections scientifiques et des propres investigations de l'auteur. Le total comprend 123 espèces de 21 genres appartenant à deux tribus et deux sous-familles qui sont listées.

Key words: Megachilidae, Apoidea, Romania, checklist.

INTRODUCTION

Data on the wild bees of Romania were published by: Henrich (1880, 1881, 1882, 1883), Mocsáry (1874, 1897), Móczár (1956), Móczár & Henter (1907), Szilády (1914), Zilahi-Kiss (1915), Iuga & Scobiola-Palade (1959), Constantinescu (1976) and Pascu (2003). One of the first lists of the family Megachilidae species reported in the Romanian fauna is published by Aftene since 1972, which includes 88 species and 8 forms. In the papers published during the period 1973-1995, Aftene (1973, 1976, 1979 a, b, 1995) and Aftene & Goagă (1993) reported 22 Romanian new species; other new reports for Romania were also made by Noskiewicz (1962) and Matache & Ban (2006). The species list was completed by Zanden & Matache (1986) by the publishing of the Catalogue of the Megachilidae collection of "Grigore Antipa" National Museum of Natural History (București), which offered new distributional data for the species already reported; Ban-Calefariu & Ljubomirov (2009) certify the presence of *Chalicodoma parietina* on the Romanian territory, it being found again after 100 years, also in the southern region of the country.

RESULTS

The present list was made basing on literature, scientific collections of "Grigore Antipa" National Museum of Natural History and of Brukenthal National Museum (Sibiu) and on my own investigation results; totally, there are presented 123 species of 21 genera, belonging to two tribes and two subfamilies.

Nomenclature was updated according to the papers signed by: Banaszak & Romasenko (2001), Pawlikowski (2001), Scheuchl (2006) and also to "Fauna Europaea" (Polaszek, 2005). Subfamilies, tribes and genera are presented in a systematical order, according to Banaszak & Romasenko (op. cit.), and the species, in alphabetical order. For most of the species the specification of the toponimies was necessary, in this respect using Móczár's paper (1972).

English translation by Mihaela Barcan Achim.

Abbreviations:

+ - reports before 1970

* - reports after 1970 up to present

♦ - species still reported only one in Romania

Taxonomic list

Subfamily Lithurginae

Lithurgus Latreille, 1825*Lithurgus chrysurus* Fonscolombe, 1834= *Lithurgus analis* Lepeletier, 1841= *Lithurgus haemorroidalis* Lepeletier, 1841*Lithurgus cornutus* (Fabricius, 1787)= *Lithurgus fuscipennis* Lepeletier, 1841

Subfamily Megachilinae

Tribe Anthidiini

Trachusa Panzer, 1804*Trachusa byssina* (Panzer, 1798)= *Trachussa serratulae* Panzer, 1805*Archianthidium* Mavromoustakis, 1939+ * *Archianthidium pubescens* (Morawitz, 1872)= *Anthidium pubescens* Morawitz, 1872*Paraanthidium* Friese, 1898*Paraanthidium interruptum* (Fabricius, 1781)*Rhodanthidium* Isensee, 1927*Rhodanthidium septemdentatum* (Latreille, 1809)= *Anthidium septemdentatum* Lepeletier, 1841*Paraanthidiellum* Michener, 1948(= *Pseudoanthidium* Friese, 1898)*Paraanthidiellum lituratum* (Panzer, 1801)* * *Paraanthidiellum melanurum* (Klug, 1832)+ *Paraanthidiellum tenellum* (Mocsáry, 1881)= *Anthidium tenellum* Mocsáry, 1881*Icteranthidium* Michener, 1948*Icteranthidium laterale* (Latreille, 1809)= *Anthidium laterale* Latreille, 1809*Anthidium* Fabricius, 1804*Anthidium cingulatum* Latreille, 1809*Anthidium florentinum* (Fabricius, 1775)* * *Anthidium loti* Perris, 1852*Anthidium manicatum* (Linnaeus, 1758)+ * *Anthidium mocsaryi* Friese, 1897*Anthidium punctatum* Latreille, 1809*Anthidium septemspinatum* Lepeletier, 1841*Proanthidium* Friese, 1898*Proanthidium oblongatum* Latreille, 1809= *Anthidium oblongatum* Latreille, 1809

- Anthidiellum* Cockerell, 1904
Anthidiellum strigatum (Panzer, 1805)
Stelis Panzer, 1806
Stelis breviscula (Nylander, 1848)
⁺*Stelis jugae* Noskiewicz, 1962
⁺**Stelis minuta* Lepeletier et Serville, 1825
**Stelis odontopyga* Noskiewicz, 1925
**Stelis ornatula* (Klug, 1807)
Stelis phaeoptera (Kirby, 1802)
Stelis punctulatissima (Kirby, 1802)
= *Stelis aterrima* Panzer, 1798
**Stelis scutellaris* Morawitz, 1894
Stelis signata (Latreille, 1809)
Dioxys Lepeletier et Serville, 1825
⁺*Dioxys cincta* (Jurine, 1807)
Dioxoides Popov, 1947
**Dioxoides tridentata* (Nylander, 1848)

Tribe Megachilini

- Chelostoma* Latreille, 1809
Chelostoma campanularum (Kirby, 1802)
**Chelostoma distinctum* (Stoeckert, 1929)
**Chelostoma florissomne* (Linnaeus, 1758)
= *Chelostoma maxillosum* (Linnaeus, 1767)
Chelostoma foveolatum (Morawitz, 1868)
Chelostoma grande Schletterer, 1889
Chelostoma handlirschi Schletterer, 1889
**Chelostoma proximum* Schletterer, 1889
Chelostoma rapunculi (Lepeletier, 1841)
= *Chelostoma fuliginosum* Panzer, 1798
= *Heriades nigricornis* Nylander, 1848
⁺**Chelostoma schmiedeknechti* Schletterer, 1889
Chelostoma ventrale Schletterer, 1889
Heriades Spinola, 1808
Heriades crenulatus Nylander, 1856
**Heriades rubicolus* Pérez, 1890
Heriades truncorum (Linnaeus, 1758)
Hoplitis Klug, 1807
⁺**Hoplitis acuticornis* (Dufour et Perris, 1840)
= *Osmia acuticornis* Dufour et Perris, 1840
Hoplitis adunca (Panzer, 1798)
= *Osmia adunca* (Panzer, 1798)
**Hoplitis anthocopoides* (Schenck, 1853)
Hoplitis claviventris (Thomson, 1872)
⁺**Hoplitis jheringii* (Ducke, 1898)
= *Osmia bidentata* Morawitz, 1876
Hoplitis laevifrons (Morawitz, 1872)
= *Osmia laevifrons* Morawitz, 1872

- Hoplitis lepeletieri* (Pérez, 1879)
Hoplitis leucomelana (Kirby, 1802)
 = *Hoplitis parvula* Doufour et Perris, 1840
Hoplitis manicata Morice, 1901
 * *Hoplitis praestans* (Morawitz, 1894)
 * *Hoplitis princeps* (Morawitz, 1872)
 * *Hoplitis ravouxi* (Pérez, 1902)
Hoplitis rufohirta (Latreille, 1811)
 = *Osmia rufohirta* Latreille, 1811
Hoplitis tridentata (Doufour et Perris, 1840)
- Anthocopa* Lepeletier, 1825
Anthocopa andrenoides (Spinola, 1808)
Anthocopa bidentata (Morawitz, 1876)
 = *Hoplitis bidentata* Morawitz, 1876
 * *Anthocopa ligurica* (Morawitz, 1868)
Anthocopa papaveris (Latreille, 1799)
Anthocopa spinulosa (Kirby, 1802)
 = *Hoplitis spinulosa* Kirby, 1802
Anthocopa villosa (Schenck, 1853)
- Osmia* Panzer, 1806
Osmia aurulenta (Panzer, 1799)
Osmia bicolor (Schrank, 1781)
Osmia brevicornis (Fabricius, 1798)
 = *Osmia atrocaerulea* Schilling, 1849
 = *Osmia panzeri* Morawitz, 1869
Osmia caerulescens (Linnaeus, 1758)
 = *Osmia aenea* (Linnaeus, 1761)
Osmia cephalotes Morawitz, 1870
Osmia cerinthidis Morawitz, 1876
Osmia cornuta (Latreille, 1805)
 † *Osmia dalmatica* Morawitz, 1871
 * *Osmia dimidiata* Morawitz, 1870
Osmia emarginata Lepeletier, 1841
 = *Osmia mustelina* Gerstäcker, 1869
Osmia fulviventris (Panzer, 1798)
 = *Osmia niveata* Fabricius, 1804
Osmia gallarum Spinola, 1808
Osmia leaiana (Kirby, 1802)
 = *Osmia solsky* Morawitz, 1871
Osmia melanogaster Spinola, 1808
 = *Osmia notata* Schenck, 1867
 = *Osmia aterrima* Morawitz, 1872
 = *Osmia incerta* Radoskowski, 1876
Osmia parietina Curtis, 1828
 = *Osmia angustula* (Zetterstedt, 1838)
Osmia pilicornis Smith, 1846
Osmia rufa (Linnaeus, 1758)
 = *Osmia bicornis* Linnaeus, 1758
Osmia uncinata Gerstaecker, 1869

- + **Osmia xanthomelana* (Kirby, 1802)
Chalicodoma Lepeletier, 1841
Chalicodoma ericetorum (Lepeletier, 1841)
= *Megachile ericetorum* Lepeletier, 1841
Chalicodoma parietina (Geoffroy, 1785)
= *Chalicodoma muraria* Fabricius, 1798
Megachile Latreille, 1802
Megachile alpicola Alfken, 1924
Megachile analis Nylander, 1852
Megachile apicalis Spinola, 1808
Megachile bombycina Radoszkowski, 1874
= *Megachile maxillosa* Eversmann, 1852
Megachile centuncularis (Linnaeus, 1758)
Megachile circumcincta (Kirby, 1802)
Megachile dorsalis Pérez, 1879
* **Megachile fulvimana* Eversmann, 1852
* *Megachile genalis* Morawitz, 1880
Megachile lagopoda (Linnaeus, 1761)
Megachile lapponica Thomson, 1872
Megachile leachella Curtis, 1828
= *Megachile argentata* Fabricius, 1973
Megachile leucomalla Gerstaecker, 1869
Megachile ligniseca (Kirby, 1802)
Megachile maritima (Kirby, 1802)
Megachile melanopyga Costa, 1863
Megachile nigriventris Schenck, 1868
Megachile octosignata Nylander, 1852
Megachile pilicrus Morawitz, 1878
* *Megachile pilidens* Alfken, 1924
Megachile rotundata (Fabricius, 1787)
= *Megachile pacifica* Panzer, 1798
= *Megachile imbecilla* Gerstaecker, 1869
* *Megachile rubrimana* Morawitz, 1893
Megachile sericans Fonscolombe, 1832
= *Megachile albisecta* (Klug, 1817)
Megachile versicolor Smith, 1844
Megachile willughbiella (Kirby, 1802)
Coelioxys Latreille, 1809
Coelioxys afra Lepeletier, 1841
+ * *Coelioxys argentea* Lepeletier, 1841
Coelioxys aurolimbata Förster, 1853
Coelioxys brevis Eversmann, 1852
= *Coelioxys erythropyga* Förster, 1853
* *Coelioxys caudata* Spinola, 1838
= *Coelioxys försteri* Morawitz, 1872
Coelioxys conoidea (Illiger, 1806)
= *Coelioxys vectis* Curtis, 1831
Coelioxys elongata Lepeletier, 1841
= *Coelioxys simplex* Nylander, 1852

- Coelioxys haemorrhoea* Förster, 1853
Coelioxys inermis (Kirby, 1802)
 = *Coelioxys acuminata* Nylander, 1852
Coelioxys mandibularis Nylander, 1848
Coelioxys polycentris Förster, 1853
Coelioxys quadridentata (Linnaeus, 1758)
 = *Coelioxys acuta* Nylander, 1848
 = *Coelioxys conica* Linnaeus, 1758
Coelioxys rufescens Lepeletier et Serville, 1825
 = *Coelioxys hebescens* Nylander, 1848
Coelioxys rufocaudata Smith, 1854
 = *Coelioxys octodentata* Lepeletier, 1841

DISCUSSIONS

12 species were reported in literature along the period 1874 - 1962, from a few sites from Romania, therefore being rare occurrences in the country.

The species: *Archianthidium pubescens*, *Paraanthidiellum melanurum*, *Anthidium loti*, *A. mocsaryi*, *Stelis minuta*, *S. odontopyga*, *S. scutellaris*, *Dioxoides tridentata*, *Chelostoma schmiedeknechti*, *Hoplitis acuticornis*, *H. jheringii*, *H. praestans*, *H. princeps*, *Anthocopa ligurica*, *Osmia dimidiata*, *O. xanthomelana*, *Megachile fulvimana* and *Coelioxys argentea* are reported once in Romania. Their presence in Romanian fauna has to be re-confirmed. It might be possible that, because of the lack of literature, some of them to be wrongly identified.

20 species are recently reported in the Romanian fauna, after 1970 up to present, the rest of the species from the list which are not marked were reported both in the past and now.

The presence of *Chalicodoma parietina* on the Romanian territory was confirmed by its present occurrence, after 100 years (Ban-Calefariu & Ljubomirov, op. cit.).

Dioxys cincta, *Chelostoma grande*, *Hoplitis lepeletieri*, *Osmia cephalotes*, *O. emarginata*, *Coelioxys haemorrhoea* and *C. polycentris* are distributed almost in the whole Europe (Polaszek, op. cit.), but in Romania, each of them is reported in a single region. But this distribution is not a certainty of their preference for the habitats or the respective regions; probably, these aspects are also influenced by the small number of sites where the studies were made (Tab. 1).

Table 1

Situation of the reported species in some certain regions of Romania.

Reports of species only in some certain regions of Romania	Taxa	References
Reports from southern Romania	<i>Paraanthidiellum melanurum</i>	Zanden & Matache, 1986
	<i>Anthidium loti</i>	Zanden & Matache, 1986
	<i>Anthidium mocsaryi</i>	Mocsáry, 1874
	<i>Stelis odontopyga</i>	Aftene, 1995
	<i>Chelostoma grande</i>	Mocsáry, 1897 Aftene, 1972

Table 1 (continued)

Reports of species only in some certain regions of Romania	Taxa	References
Reports from southern Romania	<i>Chelostoma schmiedeknechti</i>	Mocsáry, 1897
	<i>Hoplitis jheringii</i>	Zilahi, 1915
	<i>Hoplitis praestans</i>	Matache & Ban, 2006
	<i>Anthocopa ligurica</i>	Zanden & Matache, 1986
	<i>Chalicodoma parietina</i>	Móczar & Henter, 1907 Ban-Calefariu & Ljubomirov, 2009
	<i>Osmia cephalotes</i>	Iuga & Scobiola-Palade, 1959
	<i>Osmia dimidiata</i>	Zanden & Matache, 1986
	<i>Osmia emarginata</i>	Mocsáry, 1897 Aftene, 1972 Ban-Calefariu & Ljubomirov, 2009
	<i>Coelioxys argentea</i>	Mocsáry, 1874
	<i>Coelioxys haemorrhoea</i>	Iuga & Scobiola-Palade, 1959 Ban-Calefariu & Ljubomirov, 2009
Reports from central Romania	<i>Dioxys cincta</i>	Mocsáry, 1897 Zilahi-Kiss, 1915
	<i>Dioxoides tridentata</i>	Zanden & Matache, 1986
	<i>Hoplitis lepeletieri</i>	Szilady, 1914
	<i>Coelioxys polycentris</i>	Szilady, 1914 Aftene, 1979 Zanden & Matache, 1986
Reports from western Romania	<i>Archianthidium pubescens</i>	Móczár, 1956
	<i>Paraanthidiellum tenellum</i>	Mocsáry, 1874
	<i>Anthidium mocsaryi</i>	Mocsáry, 1874
	<i>Stelis minuta</i>	Mocsáry, 1897
Reports from eastern Romania	<i>Stelis scutellaris</i>	Zanden & Matache, 1986
	<i>Hoplitis princeps</i>	Aftene & Goagă, 1993
	<i>Megachile fulvimana</i>	Aftene & Goagă, 1993
Reports from northern Romania	<i>Hoplitis acuticornis</i>	Mocsáry, 1897

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LISTA REVIZUITĂ DE MEGACHILIDAE (HYMENOPTERA: APOIDEA)
DIN FAUNA ROMÂNIEI

REZUMAT

Lucrarea prezintă lista speciilor de Megachilidae din România, elaborată pe baza literaturii existente, a colecțiilor științifice și a investigațiilor proprii ale autorului. În total, 123 specii din 21 genuri aparținând la două triburi și două subfamilii sunt listate. Pentru reactualizarea nomenclaturii și stabilirea sinonimiilor au fost studiate lucrările lui Banaszak & Romasenko (2001), Pawlikowski (2001), Scheuchl (2006) și, de asemenea, a fost consultată “Fauna Europaea” (Polaszek, 2005).

În urma analizei listei taxonomice s-a constatat că: 18 specii au rămas la prima semnalare în fauna României, nefiind regăsite în cercetările noastre, 12 specii sunt menționate în literatură doar în intervalul 1874 - 1962 și 20 specii au semnalări mai recente, după anul 1970 până în prezent; restul speciilor au atât semnalări vechi cât și recente, fiind răspândite în aproape toată țara.

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