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A catalogue of the Scoliidae (Hymenoptera, Vespoidea) of Eritrea

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Abstract: In Eritrea the family Scoliidae is represented by five genera and 17 species of the subfamily Scoliinae. They belong to the genera *Campsomeriella* BETREM, 1941 (five species), *Cathimeris* BETREM 1972 (two species), *Guigliana* BETREM, 1967 (one species) *Micromeriella* BETREM, 1972 (two species) and *Scolia* FABRICIUS, 1775 (seven species).

Key words: Scoliidae, Scoliinae, *Campsomeriella*, *Cathimeris*, *Guigliana*, *Micromeriella*, *Scolia*, Eritrea

Introduction

Species of the family Scoliidae (mammoth wasps) belong to the largest Hymenoptera. They are known as parasitoids of in soil living larvae of the superfamilies Scarabaeoidea and Curculinoidea (Coleoptera).

So far, only the subfamily Scoliinae has been recorded from Eritrea. It is represented by the genera *Campsomeriella* BETREM, 1941 (five species), *Cathimeris* BETREM 1972 (two species), *Guigliana* BETREM, 1967 (one species), *Micromeriella* BETREM, 1972 (one species) and *Scolia* FABRICIUS, 1775 (seven species). Nothing is known about the biology of the Eritrean species.

Annotated catalogue

In the systematics and taxonomy I follow OSTEN (2005). The data of the general distribution are based on my unpublished catalogue of the Afrotropical Scoliidae. Records from the Palaearctic region are listed only from the Arabian Peninsula.

Subfamily Scoliinae

Tribe Scoliini

Campsomeriella (*Campsomeriella*) *caelebs* (SICHEL, 1864)

Elis (*Dielis*) *caelebs* n.s.: SICHEL 1864 (In: DE SAUSSURE & SICHEL): 297 (description ♀, Ethiopia without exact locality = Massawa according to BETREM & BRADLEY 1972).

Dielis caelebs (SICHEL, 1864): MAGRETTI 1884b: 559 (taxonomy, Aikota, Keren).

Elis caelebs (!) SICHEL, 1864: MAGRETTI 1885: 293 (Aikota), 329 (Keren), 352 (catalogue species collected by expedition).

Campsomeris caelebs (SICHEL, 1864): GUIGLIA 1939b: 80 (taxonomy, Barentu).

- Campsomeris caelebs* (SICHEL, 1864): GUIGLIA 1951: 9 (taxonomy, Barentu, Keren, Saganeiti).
Campsomeris caelebs (SICHEL, 1864): GUIGLIA 1954: 342 (taxonomy, Eritrea without exact locality).
Campsomeriella (Campsomeriella) caelebs (SICHEL, 1864): BETREM & BRADLEY 1972: 86 (key ♀), 267 (taxonomy), 269 (keys ♀), 270 (key ♂), 271 (key ♂), 273 (taxonomy, biogeography, footnote: taxonomy), 276 (figs. 49, 50), 282 (map 42 ♂), 285 (map 43 ♀), 287 (taxonomy, lectotype designation by Betrem, description ♀ ♂, biology, Adi Ugri, Agordat, Aikota, Assab, Cherema = Keren, Ghinda, Gura, Keren, Mdi Hildeya = Mai Edaga, Massawa, Mentei = Hali Mentel, Orti Davi = Orti Dari, Pozzi Dorotai = Pozzi Darotai, Rothes Meer = Red Sea without exact locality, Saganeiti, Salamaona, Wakhivo = Wadi Wakhiro), 295 (taxonomy).
 **Dielis collaris* (FABRICIUS, 1775): MAGRETTI 1884b: 558 (taxonomy, biology, Aikota, Khor Cheru, Khor Lebka).
 **Elis eriophora* (KLUG, 1832): MAGRETTI 1885: 293 (Aikota), 323 (Khor Cheru), 333 (Khor Lebka), 352 (catalogue species collected by expedition).
Elis (Dielis) eriophora KLUG, 1832: GUIGLIA 1931: 158 (taxonomy, Gahare).
Campsomeris thoracica subsp. *eriophora* (KLUG, 1832): GUIGLIA 1932: 128 (taxonomy, Agordat).
Campsomeris thoracica f. *eriophora* (KLUG, 1832): GUIGLIA 1951: 6 (taxonomy, Eritrea without exact locality).
 **Dielis auricollis* (LEPELETIER DE SAINT-FARGEAU, 1845): WALKER 1871: 13 (taxonomy, Massawa, Raffla).
Dielis auricollis (LEPELETIER DE SAINT-FARGEAU, 1845): INNES BEY 1911: 110 (without exact locality (could be also record from Sudan), catalogue Lord Collection).
 Distribution: Adi Ugri, Agordat, Aikota, Assab, Barentu, Keren, Gahare, Ghinda, Habi-Mentel, Keren, Khor Cheru, Khor Lebka, Mai Edaga, Massawa, Orti Dari, Pozzi Darotai, Raffla, Saganeiti, Salamaona, Wadi Wakhiro, Red Sea without exact locality (BETREM & BRADLEY 1972).

Campsomeriella caelebs, which is widely distributed in the Afrotropical region, is recorded also from Djibouti, Ethiopia and Sudan.

***Campsomeriella (Campsomeriella) dimidiatipennis* (DE SAUSSURE, 1854)**

Campsomeriella (Campsomeriella) dimidiatipennis (DE SAUSSURE, 1854): BETREM & BRADLEY 1972: 85 (key ♀), 87 (key ♀), 268 (key ♀), 269 (key ♀), 270 (key ♂), 300 (taxonomy, description ♂ ♀, Keren, Vitidare = Orti Dari, 301 (map 45), 304 (fig. 54).

Distribution: Keren, Orti Dari.

Campsomeriella dimidiatipennis, which is widely distributed in the Afrotropical region, is also known from Ethiopia.

***Campsomeriella (Maddonimeris) madonensis madonensis* (DU BUYSSON, 1910)**

Campsomeriella (Maddonimeris) madonensis madonensis (DU BUYSSON, 1910): BETREM & BRADLEY 1972: 93 (key ♀), 98-99 (key ♂), 100 (key ♂), 102 (key ♂), 268 (key ♀), 270 (key ♀), 271 (key ♂), 272 (key ♂), 305 (typus subgeneris), 306 (taxonomy, description ♀, Gura), 307 (map 46), 309 (taxonomy, description ♂, Gura).

Distribution: Gura.

Campsomeriella madonensis madonensis is recorded also from Burundi, Democratic Republic of Congo, Kenya, Malawi, Mozambique, South Africa, Tanzania, Uganda, Zambia and Zimbabwe.

***Campsomeriella (Campsomeriella) torquata* BETREM & BRADLEY, 1972**

Campsomeriella (Campsomeriella) torquata sp.n.: BETREM & BRADLEY 1972: 87 (key ♀), 267 (taxonomy), 269 (key ♀), 270 (key ♀), 294 (taxonomy), 297 (map 44), 298 (description ♀, Ghinda).

Campsomeriella (Campsomeriella) torquata BETREM & BRADLEY, 1972: OSTEN 2005: 24 (world catalogue).

D i s t r i b u t i o n : Ghinda.

Campsomeriella torquata is known also from the Democratic Republic of Congo, Kenya, Tanzania and Uganda.

***Cathimeris (Cathimeris) clotho ghindae* BETREM & BRADLEY, 1972**

Cathimeris (Cathimeris) clotho ghindae subsp. n.: BETREM & BRADLEY 1972: 92 (key ♀), 228 (key ♀), 231 (description ♀, Adi Ugri, Ghinda, Saganeiti), 233 (map 35).

Cathimeris (Cathimeris) clotho ghindae BETREM & BRADLEY, 1972: OSTEN 2005: 8 (world catalogue), 12 (world catalogue).

**Dielis clotho* (DE SAUSSURE, 1859): MAGRETTI 1906: 10 (biology, Massawa).

**Campsomeris lachesis* (DE SAUSSURE, 1859): GUIGLIA 1951: 9 (taxonomy, Adi Ugri, Saganeiti).

Campsomeris lachesis (DE SAUSSURE, 1859): GUIGLIA 1954: 340 (taxonomy, Adi Ugri, Saganeiti).

D i s t r i b u t i o n : Adi Ugri, Ghinda, Saganeiti.

Cathimeris clotho ghindae is recorded also from Ethiopia and Sudan.

***Cathimeris (Cathimeris) hymenaea hymenaea* (GERSTAECKER, 1871)**

Cathimeris hymenaea hymenaea (GERSTAECKER, 1871): BETREM 1972 (In: BETREM & BRADLEY): 89 (key ♀), 99 (key ♂), 103 (key ♂), 200 (typus generis), 201 (taxonomy), 202 (taxonomy), 203 (key ♀), 204 (key ♂), 205 (fig. 38), 210 (taxonomy), 211 (taxonomy, lectotype designation by Betrem & Bradley, description ♀, Saganeiti), 212 (key), 215 (key ♂, taxonomy), 216 (taxonomy, description ♂, map 30).

Cathimeris (Cathimeris) hymenaea hymenaea (GERSTAECKER, 1871): OSTEN 2005: 13 (world catalogue).

**Campsomeris aureoloides* sp.n.: BRADLEY 1931: 168 (description ♀, Saganeiti), 171 (footnote: taxonomy), 173 (key).

Campsomeris aureoloides BRADLEY, 1931: GUIGLIA 1950a: 210 (taxonomy, Saganeiti).

Campsomeris aureoloides BRADLEY, 1931: GUIGLIA 1951: 7 (taxonomy, Saganeiti).

Campsomeris aureoloides BRADLEY, 1931: BETREM & BRADLEY 1972: 211 (synonym).

D i s t r i b u t i o n : Saganeiti.

Cathimeris hymenaea hymenaea, which is widely distributed in the Afrotropical region, is also known from Ethiopia.

***Cathimeris (Cathimeris) masaica* (CAMERON, 1910)**

Cathimeris (Cathimeris) masaica (CAMERON, 1910): BETREM & BRADLEY 1972: 11 (taxonomy), 91 (key ♀), 202 (key ♀), 228 (in key ♀ *Cathimeris clotho ghindae*), 233 (taxonomy, lectotype designation by Bradley, description ♀, Ghinda, map 35).

D i s t r i b u t i o n : Ghinda.

Cathimeris masaica is recorded also from the Democratic Republic of Congo, Djibouti, Ethiopia, South Africa, Tanzania, Uganda and Zimbabwe

***Guigliana (Guigliana) aliena aliena* (KLUG, 1832)**

Scolia (Trielis) aliena KLUG, 1832: SAUSSURE & SICHEL 1864: 27 (key ♀), 151 (taxonomy, description ♂ ♀, Ethiopia without exact locality = Massawa according to BETREM & BRADLEY 1972).

Scolia aliena KLUG, 1832: DALLA TORRE 1897: 145 (world catalogue).

Trielis aliena (KLUG, 1832): WALKER 1871: 14 (taxonomy, Harkeko, Massawa).

Dielis aliena (KLUG, 1832: MAGRETTI 1906: 20 (Ailet).

Trielis aliena (KLUG, 1832): INNES BEY 1911: 110 (Harkeko, catalogue Lord Collection).

Elis (Trielis) aliena (KLUG, 1832): GUIGLIA 1931: 158 (Gahare).

Campsoscolia (Campsoscolia) aliena (KLUG, 1832): BRADLEY 1951: 436 (taxonomy, world catalogue).

Campsoscolia aliena (KLUG, 1832): GUIGLIA 1961: 367 (taxonomy, Gahare), 368 (fig. 3).

Guigliana (Guigliana) aliena aliena (KLUG, 1832): BETREM & BRADLEY 1972: 20 (taxonomy), 27 (key ♀), 30 (key ♂), 49 (fig. 15), 69 (key ♀, taxonomy), 70 (taxonomy, lectotype designation by Bradley, description ♀ ♂, Gahare, Harkeko, Massawa, Sabarguma), 71 (map 10), 111 (fig. 16).

D i s t r i b u t i o n : Ailet, Gahare, Harkeko, Massawa, Sabarguma.

Guigliana aliena aliena is known from the Afrotropical (Chad, Djibouti, Eritrea, Ethiopia, Mali, Niger, Nigeria, Senegal, Somalia, Sudan) and Palaearctic (Saudi Arabia, Yemen) regions.

***Micromeriella aureola aureola* (KLUG, 1832)**

Dielis aureola KLUG, 1832: WALKER 1871: 14 (taxonomy, Harkeko, Massawa, Dahlak Island = Dahlak Kebir).

Dielis aureola KLUG, 1832: INNES BEY 1911: 110 (Massawa, catalogue Lord Collection).

Micromeriella aureola aureola (KLUG, 1832): BETREM & BRADLEY 1972: 90 (key ♀), 100 (key ♂), 107 (key ♂), 108 (key ♂, footnote: taxonomy), 117 (key ♀ as *Micromeriella aureola*), 117 (key ♂ as *Micromeriella aureola*), 138 (key ♀), 139 (key ♂, taxonomy, biology, Assab, Massawa, Saganeiti, Wakhiro = Wadi Wakhiro, Dahlek Island = Dahlak Kebir), 142 (map 15: ♀), 147 (map 16 ♂).

D i s t r i b u t i o n : Assab, Harkeko, Massawa, Saganeiti, Wadi Wakhiro, Dahlak Kebir.

Micromeriella aureola aureola is recorded from the Afrotropical (Djibouti, Eritrea, Ethiopia, Kenya, Somalia, Sudan, Tanzania, Uganda) and Palaearctic (Saudi Arabia, United Arab Emirates, Yemen) regions.

***Micromeriella hyalina hyalina* (KLUG, 1832)**

Campsomeris hyalina (KLUG, 1832): GUGLIA 1939c: 46 (taxonomy, Ghinda, Saganeiti).

Campsomeris hyalina (KLUG, 1832): GUGLIA 1961: 369 (taxonomy, Ghinda, Saganeiti).

Micromeriella hyalina hyalina (KLUG, 1832): BETREM & BRADLEY 1972: 90-91 (key ♀), 91 (key ♀), 93 (key ♀), 109 (key ♂), 120 (taxonomy, key ♀), 121 (key ♂, taxonomy, description ♀ ♂, Ghinda, Massawa, Saganeiti), 123 (map 13 ♀), 133 (map 14 ♂), 144 (figs. 22-24), pl. 2 (fig. 2).

D i s t r i b u t i o n : Ghinda, Massawa, Saganeiti.

Micromeriella hyalina hyalina is known from the Afrotropical (Burkina Faso, Chad, Eritrea, Gambia, Mali, Nigeria, Senegal, Sudan, Togo) and Palaearctic (Oman, Saudi Arabia, United Arab Emirates) regions.

Tribe Scoliini

***Scolia (Discolia) abyssinica* DE SAUSSURE, 1858**

Discolia abyssinica (DE SAUSSURE, 1858): WALKER 1871: 13 (taxonomy, Harkeko, Massawa).

Discolia abyssinica (DE SAUSSURE, 1858): INNES BEY 1911: 109 (Harkeko, catalogue Lord Collection).

Scolia (Discolia) abyssinica DE SAUSSURE, 1858: OSTEN 2005: 26 (world catalogue).

D i s t r i b u t i o n : Harkeko, Massawa.

Scolia abyssinica is also known from Cameroon, Ethiopia, Malawi, South Africa and Tanzania.

***Scolia (Discolia) dispar* KLUG, 1832**

Discolia dispar (KLUG, 1832): MAGRETTI 1906: 20 (Ailet).

D i s t r i b u t i o n : Ailet.

Scolia dispar is recorded from the Afrotropical (Eritrea, Sudan) and Palaearctic (Saudi Arabia) regions.

***Scolia (Scolia) erythrocephala infuscata* Klug, 1832**

Scolia (Discolia) infuscata (KLUG, 1832): GUIGLIA 1931: 157 (taxonomy, Gahare).

D i s t r i b u t i o n : Gahare.

Scolia erythrocephala infuscata is also known from Ethiopia and Sudan.

***Scolia (Scolia) fuciformis* SCOPOLI, 1786**

**Discolia insubrica* ROSSIUS (!): WALKER 1871: 13 (taxonomy, Massawa).

Discolia insubrica ROSSIUS (!): INNES BEY 1911: 109 (Massawa, catalogue Lord Collection).

D i s t r i b u t i o n : Massawa.

As *Scolia fuciformis* is recorded only from the Palaearctic region, the identification should be checked.

***Scolia (Discolia) lateralis* KLUG, 1832**

Discolia lateralis (KLUG, 1832): WALKER 1871: 12 (Harkeko).

Discolia lateralis (KLUG, 1832): INNES BEY 1911: 109 (Harkeko, catalogue Lord Collection).

Scolia lateralis (KLUG, 1832) var.: GUIGLIA 1950b: 301 (taxonomy, Massawa (var.), Sabarguma).

Scolia lateralis (KLUG, 1832) subsp. (?): GUIGLIA 1954: 344 (Harkeko).

D i s t r i b u t i o n : Harkeko, Massawa, Sabarguma.

Scolia lateralis is known from the Afrotropical (Chad, Eritrea, Niger, Sudan) and Palaearctic regions.

***Scolia (Discolia) luteicornis* (WALKER, 1871)**

Discolia luteicornis sp.n.: WALKER 1871: 13 (description ♂, Harkeko, Massawa).

Scolia luteicornis (WALKER, 1871): DALLA TORRE 1897: 168 (taxonomy, world catalogue).

Discolia luteicornis WALKER, 1871: INNES BEY 1911: 109 (Massawa, catalogue Lord Collection).

Discolia luteicornis WALKER, 1871: MAGRETTI 1906: 10 (as *Discolia luteipennis*, biology, Massawa), 20 (Ailet).

Scolia (Discolia) luteicornis (WALKER, 1871): BETREM & BRADLEY 1964: 92 (taxonomy, world catalogue).

Scolia (Discolia) luteicornis (WALKER, 1871): OSTEN 2005: 37 (world catalogue).

D i s t r i b u t i o n : Ailet, Harkeko, Massawa.

Scolia luteicornis is recorded also from Sudan.

***Scolia (Discolia) morio* FABRICIUS, 1781**

Scolia morio FABRICIUS, 1781 ssp.: GUIGLIA 1958: 55 (taxonomy, Keren).

D i s t r i b u t i o n : Keren.

Scolia morio, which is widely distributed in the Afrotropical region, is also known from Sudan.

***Scolia (Discolia) ruficornis ruficornis* FABRICIUS, 1793**

Discolia ruficornis FABRICIUS, 1793: GRIBODO 1895: 115 (taxonomy, Saganeiti).

Scolia ruficornis FABRICIUS, 1793: CANNAVIELLO 1900: 296 (taxonomy, Adi-Kajè = Adi Caiè).

Scolia ruficornis FABRICIUS, 1793: GUIGLIA 1939a: 188 (taxonomy, Keren).

D i s t r i b u t i o n : Adi Caiè, Keren, Saganeiti.

Scolia ruficornis ruficornis, which is widely distributed in the Afrotropical region, is recorded also from Ethiopia. It is used in biological control of coconut palm beetles (GREATHEAD 1971).

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Zusammenfassung

Die Familie Scoliidae ist in Eritrea mit fünf Gattungen und 17 Arten aus der Unterfamilie Scoliinae vertreten. Die Gattung *Campsomeriella* BETREM, 1941 ist mit fünf Arten nachgewiesen, die Gattungen *Cathimeris* BETREM, 1972 und *Micromeriella* BETREM, 1972 mit je zwei Arten, die Gattung *Guigliana* BETREM, 1967 mit einer Art und die Gattung *Scolia* FABRICIUS, 1775 mit sieben Arten.

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