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A catalogue of the families Aphelinidae and Azotidae (Hymenoptera, Chalcidoidea) of Eritrea

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A b s t r a c t : In Eritrea the family Aphelinidae is represented by four genera and 16 species. The subfamily Aphytinae is known by four species in the genus *Aphytis* HOWARD, 1900. The subfamily *Coccophaginae* is represented by the genera *Coccobius* RATZBURG, 1852 (one species), *Coccophagus* WESTWOOD, 1833 (10 species) and *Encarsia* FÖRSTER, 1878 (one species). The family Azotidae is known only by one species, *Ablerus elegantulus* (SILVESTRI, 1915).

K e y w o r d s : Aphelinidae, *Aphytis*, *Coccobius*, *Coccophagus*, *Encarsia*, Azotidae, *Ablerus*, catalogue, Eritrea

Introduction

Members of the families Aphelinidae and Azotidae are known as parasitoids or hyperparasitoids of Hemiptera (Homoptera). As the hosts are often of economic importance, Aphelinidae are used in biological control programs. Hitherto 16 species of Aphelinidae have been recorded from Eritrea. The subfamily Aphytinae is represented by the genus *Aphytis* HOWARD, 1900 and the subfamily Coccophaginae by the genera *Coccobius* RATZBURG, 1852, *Coccophagus* WESTWOOD, 1833 and *Encarsia* FÖRSTER, 1878. Two new genera of Aphelinidae have been described from Eritrea, but *Euxanthellus* SILVESTRI, 1915 and *Prococcophagus* SILVESTRI, 1915 are considered as synonyms of *Coccobius* RATZBURG, 1852.

There is no key to the African genera of the family Aphelinidae. HAYAT (1983) keyed the world genera of the Aphelinidae s.l. The species of Europe and Mediterranean Basin were keyed by FERRIÈRE (1965) and the Indian species by HAYAT (1998).

Annotated catalogue

Synonyms or misidentifications are marked with an asterisk (*) and printing errors with an exclamation mark (!).

Family **A p h e l i n i d a e**

Subfamily **A p h e l i n i n a e**

***Aphytis diaspidis* (HOWARD, 1881)**

Aphytis diaspidis (HOWARD, 1881): COMPERE 1955: 281 (fig. 3: *diaspidis*), 283 (fig. 5: *diaspidis*), 289 (key, taxonomy, biology, Asmara, (introduced into USA in 1952 and bred – no males), 290 (fig. 7).

Aphytis diaspidis (HOWARD, 1881): ROSEN & DEBACH 1979: 106 (world catalogue), 107 (world catalogue), 171 (taxonomy), 212 (biology), 194 (taxonomy), 222 (key), 375 (taxonomy), 376 (taxonomy), 377 (taxonomy), 405 (taxonomy, description ♀ ♂, biology, Eritrea without exact locality), 443 (figs 642-647), 444 (figs 648-653), 445 (figs 654-656, 657: taxonomy), 750 (tab. 4: distribution), 753 (world host-parasitoid catalogue), 755 (world host-parasitoid catalogue), 756 (world host-parasitoid catalogue), 757 (world host-parasitoid catalogue), 758 (world host-parasitoid catalogue), 759 (world host-parasitoid catalogue), 753 (world host-parasitoid catalogue), 760 (world host-parasitoid catalogue), 761 (world host-parasitoid catalogue), 763 (world host-parasitoid catalogue), 764 (world host-parasitoid catalogue), 765 (world host-parasitoid catalogue), 767 (tab. 5: host records).

Aphytis diaspidis (HOWARD, 1881): PRINSLOO & NESER 1994: Publication not seen.

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

Aphytis diaspidis is known from all zoogeographical regions.

***Aphytis erythraeus* (SILVESTRI, 1915)**

Aphelinus erythraeus sp.n.: SILVESTRI 1915a: 260 (biology), 315 (description ♀ ♂, biology, Nefasit partim), 316 (figs 67.1-5).

Aphelinus erythraeus SILVESTRI, 1915: FULMEK 1943: 13 (world host-parasitoid catalogue: Africa = Eritrea), 84 (world parasitoid-host catalogue), 98 (biology).

Aphelinus erythraeus SILVESTRI, 1915: THOMPSON 1944: 18 (world host-parasitoid catalogue), 121 (world parasitoid-host catalogue).

Aphelinus erythraeus SILVESTRI, 1915: THOMPSON 1953: 3 (world parasitoid-host catalogue).

Aphytis erythraeus (SILVESTRI, 1915): COMPERE 1955: 279 (key), 299 (taxonomy, description ♀ ♂, types examined), 300 (fig. 10).

Aphelinus erythraeus SILVESTRI, 1915: ANNECKE & INSLEY 1971: 28 (catalogue Afrotropical region).

Aphytis erythraeus (SILVESTRI, 1915): ROSEN & DEBACH 1979: 106 (world catalogue), 123 (taxonomy), 140 (taxonomy), 180 (taxonomy), 193 (taxonomy), 234 (taxonomy), 672 (taxonomy), 674 (taxonomy, description ♀ ♂, biology, Nefasit partim (see *Aphytis mimosae*), 691 (key ♂), 692 (key ♀), 703 (figs 1193-1198), 704 (figs 1199-1204), 705 (figs 1205, 1206), 751 (tab. 4: distribution), 755 (app. 2: world host-parasitoid catalogue), 771 (tab. 5: host records).

Aphytis erythraeus (SILVESTRI, 1915): PRINSLOO & NESER 1994: Publication not seen.

H o s t : Diaspididae: *Aspidiotus elaeidis* MARCHAL, 1909 (SILVESTRI 1915a).

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

Aphytis erythraeus is known only from Eritrea.

***Aphytis mimosae* ROSEN & DEBACH, 1976**

Aphytis mimosae ROSEN & DEBACH, 1976: ROSEN & DEBACH 1979: 107 (world catalogue), 225 (key), 672 (taxonomy), 678 (taxonomy, biology, Nefasit), 694 (description ♀ ♂), 705 (figs 1208, 1209), 721 (figs 1286-1291), 722 (figs 1292-1296), 751 (tab. 4: distribution), 755 (app. 2: world host-parasitoid catalogue), 771 (tab. 5: host records).

Aphytis mimosae ROSEN & DEBACH, 1979: PRINSLOO & NESER 1994: Publication not seen.

**Aphytis erythraeus* sp.n. smaller form: SILVESTRI 1915a: 316 (fig. 67.6), 317 (taxonomy ♀, Nefasit partim).

H o s t : Diaspididae: *Aspidiotus elaeidis* MARCHAL, 1909 (ROSEN & DEBACH 1979).

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

Aphytis mimosae is also recorded from South Africa.

***Aphytis secundus* (COMPÈRE, 1936)**

Marlattella secunda n.sp.: COMPÈRE 1936: 279 (key), 280 (description ♀ ♂, fig. 2, biology, Nefasit).

Marlattella secunda COMPÈRE, 1936: FULMEK 1943: 28 (world host-parasitoid catalogue), 90 (world parasitoid-host catalogue), 98 (biology).

Marlattella secunda COMPÈRE, 1936: FERRIÈRE 1965: 98 (world catalogue).

Marlattella secunda COMPÈRE, 1936: ANNECKE & INSLEY 1971: 35 (catalogue Afrotropical region).

Aphytis secundus (COMPÈRE, 1936): ROSEN & DEBACH 1979: 95 (taxonomy), 107 (world catalogue), 109 (taxonomy), 123 (taxonomy), 126 (taxonomy), 702 (figs 1188-1192), 751 (tab. 4: distribution), 752 (no host record), 771 (tab. 5: host records).

Marlattella (!) *secunda* COMPÈRE, 1936: ABATE 1991: 21 (host-parasitoid catalogue Ethiopia: Ethiopia = Eritrea).

Aphytis secundus (COMPÈRE, 1936): PRINSLOO & NESER 1994: Publication not seen.

H o s t : probably coccid on *Olea chrysophylla* (COMPÈRE 1936).

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

Aphytis secundus is known only from Eritrea.

Subfamily Coccophaginae***Coccobius seminotus* (SILVESTRI, 1915)**

Physcus seminotus sp.n.: SILVESTRI 1915b: 361 (description ♀, biology, Nefasit), 362 (figs 19, 20.1-6).

Physcus seminotus SILVESTRI, 1915: FULMEK 1943: 25 (world host-parasitoid catalogue), 91 (world parasitoid-host catalogue), 98 (biology).

Physcus seminotus SILVESTRI, 1915: ANNECKE & INSLEY 1971: 35 (catalogue Afrotropical region).

Coccobius seminotus (SILVESTRI, 1915): HAYAT 1985: 309 (taxonomy, biology, Ethiopia = Eritrea), 314 (key ♀).

Physcus seminotus SILVESTRI, 1915: ABATE 1991: 21 (parasitoid-host catalogue Ethiopia: Ethiopia = Eritrea).

Coccobius seminotus (SILVESTRI, 1915): PRINSLOO 1995: 1519 (key ♀, Ethiopia = Eritrea).

H o s t : Diaspididae: *Chionaspis* s.l. (SILVESTRI 1915b).

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

Coccobius seminotus is recorded from the Afrotropical (Eritrea, Uganda, Malagasy subregion: Mauritius) and Oriental regions.

***Coccophagus baldassarii* COMPÈRE, 1931**

Coccophagus baldassarii COMPÈRE (nomen nudum): COMPÈRE 1931a: 242 (biology, Asmara Plateau without exact locality (see COMPÈRE 1931b)).

Coccophagus baldassarii n.sp.: COMPÈRE 1931b: 251 (description ♀, biology, Asmara, Ez'Taclesan = Adi Tekelezan).

Coccophagus baldassarii COMPÈRE, 1931: COMPÈRE 1940: 397 (key ♀), 401 (taxonomy, biology, Eritrea without exact locality).

Coccophagus baldassarii COMPÈRE, 1931: FULMEK 1943: 75 (world host-parasitoid catalogue), 86 (world parasitoid-host catalogue), 98 (biology).

Coccophagus baldassarii COMPÈRE, 1931: THOMPSON 1944: 102 (world host-parasitoid catalogue), 129 (world parasitoid-host catalogue).

Coccophagus baldassarii COMPÈRE, 1931: FLANDERS 1953: Publication not seen.

Coccophagus baldassarii COMPÈRE, 1931: THOMPSON 1953: 12 (parasitoid-host catalogue).

Coccophagus baldassarii COMPÈRE, 1931: DE LOTTO & NASTASI 1955: Publication not seen.

Coccophagus baldassarii COMPERE, 1931: BOSCH et al. 1955: 54 (biology, Hamasien Plateau (Asmara, Ghescinascim)).

Coccophagus baldassarii COMPERE, 1931: ANNECKE 1963: 338 (figs 6-9), 340 (taxonomy, description ♀, biology, no Eritrean material examined).

Coccophagus baldassarii COMPERE, 1931: ANNECKE & INSLEY 1971: 30 (catalogue Afrotropical region).

Coccophagus baldassarii COMPERE, 1931: ABATE 1991: 19 (parasitoid- host catalogue Ethiopia: Ethiopia = Eritrea).

Coccophagus baldassarii COMPERE, 1931: ANNECKE & INSLEY 1974: 3 (key ♀), 14 (taxonomy, description ♀ ♂, biology, Eritrea (BOSCH et al. 1955)), 19 (fig. 29), 58 (host-parasitoid catalogue), 59 (host-parasitoid catalogue).

H o s t : Coccidae: *Saissetia oleae* (OLIVIER, 1791) (COMPERE 1931a, b).

D i s t r i b u t i o n : Adi Tekelezan, Asmara, Ghescinascim.

In the Afrotropical region *Coccophagus baldassarii* is known only from Eritrea.

***Coccophagus eleaphilus* SILVESTRI, 1915**

Coccophagus eleaphilus sp.n.: SILVESTRI 1915a: 257 (biology), 318 (description ♀ ♂, biology, Nefasit), 319 (figs 69.1-3).

Coccophagus eleaphilus SILVESTRI, 1915: MERCET 1927: 495 (taxonomy).

Coccophagus eleaphilus SILVESTRI, 1915: MERCET 1930: 221 (taxonomy, biology, Asmara).

Coccophagus eleaphilus SILVESTRI, 1915: COMPERE 1931b: 254 (taxonomy, biology, Nefasit).

Coccophagus eleaphilus SILVESTRI, 1915: COMPERE 1931c: 11 (footnote 18: taxonomy), 16 (key ♀), 57 (taxonomy), 59 (taxonomy), 60 (key ♂), 63 (taxonomy, description ♀ ♂, biology, Nefasit).

Coccophagus eleaphilus SILVESTRI, 1915: COMPERE 1940: 396 (key ♀), 400 (taxonomy, biology, Eritrea without exact locality).

Coccophagus eleaphilus SILVESTRI, 1915: FULMEK 1943: 59 (world host-parasitoid catalogue – Africa including Eritrea), 73 (world host-parasitoid catalogue), 75 (world host-parasitoid catalogue), 87 (world parasitoid-host catalogue), 96 (biology).

Coccophagus eleaphilus SILVESTRI, 1915: THOMPSON 1944: 35 (world host-parasitoid catalogue), 53 (world host-parasitoid catalogue), 102 (world host-parasitoid catalogue), 105 (world host-parasitoid catalogue), 129 (world parasitoid-host catalogue).

Coccophagus eleaphilus SILVESTRI, 1915: THOMPSON 1953: 13 (world parasitoid-host catalogue).

Coccophagus eleaphilus SILVESTRI, 1915: DE LOTTO & NASTASI 1955: Publication not seen.

Coccophagus eleaphilus SILVESTRI, 1915: BOSCH et al. 1955: 54 (biology, Hamasien Plateau (Asmara, Ghescinascim)).

Coccophagus eleaphilus SILVESTRI, 1915: ANNECKE & INSLEY 1971: 31 (catalogue Afrotropical region).

Coccophagus eleaphilus SILVESTRI, 1915: ANNECKE & INSLEY 1974: 4 (key ♀), 23 (figs 51, 52), 24 (taxonomy, description ♀ ♂, biology, Eritrea (SILVESTRI 1915a, COMPERE 1940)), 58 (host-parasitoid catalogue), 59 (host-parasitoid catalogue).

Coccophagus eleaphilus SILVESTRI, 1915: MOUND & HALSEY 1979: 198 (world host-parasitoid catalogue Aleyrodidae).

Coccophagus eleaphilus SILVESTRI, 1915: ABATE 1991: 19 (parasitoid- host catalogue Ethiopia: Ethiopia = Eritrea).

H o s t s : Coccidae: *Coccus longulus* (DOUGLAS, 1897) (MERCET 1930), *Saissetia oleae* (OLIVIER, 1791) (MERCET 1930), *Stotzia chrysophyllae* (SILVESTRI, 1915) (SILVESTRI 1915a).

D i s t r i b u t i o n : Asmara, Ghescinascim, Nefasit.

In the Afrotropical region *Coccophagus eleaphilus* is also known from South Africa, Uganda, Zimbabwe and Seychelles.

***Coccophagus eritreensis* COMPERE, 1931**

Coccophagus eritreensis n.sp.: COMPERE 1931b: 253 (description ♀ ♂, biology, Asmara, Nefasit).
Coccophagus eritreensis COMPERE, 1931: COMPERE 1940: 397 (key ♀), 401 (taxonomy, biology, Eritrea without exact locality).

Coccophagus erythraeensis (!) SILVESTRI (!): FULMEK 1943: 46 (world host-parasitoid catalogue), 73 world (host-parasitoid catalogue), 87 (taxonomy as *Coccophagus eritraeensis* (!) COMPERE), world parasitoid-host catalogue), 98 (biology as *Coccophagus eritraeensis* (!) COMPERE).

Coccophagus eritreensis COMPERE, 1931: THOMPSON 1944: 36 (world host-parasitoid catalogue), 100 (world host-parasitoid catalogue), 129 (world parasitoid-host catalogue).

Coccophagus eritreensis COMPERE, 1931: THOMPSON 1953: 13 (world parasitoid-host catalogue).

Coccophagus eritreensis COMPERE, 1931: DE LOTTO & NASTASI 1955: Publication not seen.

Coccophagus eritreensis COMPERE, 1931: BOSCH et al. 1955: 54 (biology, Hamasien Plateau (Asmara, Ghescinascim)).

Coccophagus eritreensis COMPERE, 1931: FLANDERS 1959: 597 (taxonomy: colour form of *Coccophagus pulvinariae* COMPERE, 1931). Publication not seen.

Coccophagus eritreensis COMPERE, 1931: PECK 1963: 313-314 (synonym of *Coccophagus pulvinariae* COMPERE, 1931).

Coccophagus eritreensis COMPERE, 1931: ANNECKE & INSLEY 1971: 31 (taxonomy, catalogue Afrotropical region).

Coccophagus eritreensis COMPERE, 1931: ANNECKE & INSLEY 1974: 4 (key ♀), 21 (taxonomy, biology, Eritrea (COMPERE 1931, 1940)), 23 (fig. 47), 58 (host-parasitoid catalogue Afrotropical region).

Coccophagus eritreensis COMPERE, 1931: ABATE 1991: 19 (parasitoid- host catalogue Ethiopia: Eritrea, Ethiopia).

H o s t s : Coccidae: *Coccus hesperidum* (LINNAEUS, 1758) (COMPERE 1931b), *Parasaissetia nigra* (NIETNER, 1861) (COMPERE 1931b).

D i s t r i b u t i o n : Asmara, Ghescinascim, Nefasit.

Coccophagus eritreensis is also recorded from Angola and Ethiopia. As the synonymy with *Coccophagus pulvinariae* COMPERE, 1931 proposed by FLANDERS (1959) and PECK (1963: 313-314) has not been accepted by ANNECKE & INSLEY (1971, 1974), the specific status should be checked.

***Coccophagus nigrinus* COMPERE, 1931**

Coccophagus nigrinus COMPERE, 1931: COMPERE 1940: 397 (key ♀), 402 (taxonomy, biology, Eritrea without exact locality).

Coccophagus nigrinus COMPERE, 1931: FULMEK 1943: 73 (world host-parasitoid catalogue), 87 (world parasitoid-host catalogue), 98 (biology).

Coccophagus nigrinus COMPERE, 1931: THOMPSON 1944: 36 (world host-parasitoid catalogue), 100 (world host-parasitoid catalogue), 102 (world host-parasitoid catalogue), 130 (world parasitoid-host catalogue).

Coccophagus nigrinus COMPERE, 1931: THOMPSON 1953: 16 (parasitoid-host catalogue).

Coccophagus nigrinus COMPERE, 1931: BOSCH et al. 1955: 54 (biology, Hamasien Plateau (Asmara, Ghescinascim)).

Coccophagus nigrinus COMPERE, 1931: ANNECKE & INSLEY 1971: 32 (catalogue Afrotropical region).

Coccophagus nigrinus COMPERE, 1931: ANNECKE & INSLEY 1974: 5 (key ♀), 39 (taxonomy, description ♀ ♂, biology, Eritrea (COMPERE 1940)), 43 (figs 103-105), 58 (host-parasitoid catalogue Afrotropical region), 59 (host-parasitoid catalogue Afrotropical region).

Coccophagus nigrinus COMPERE, 1931: ABATE 1991: 20 (parasitoid-host catalogue Ethiopia: Ethiopia = Eritrea).

**Coccophagus* sp. – *nigrinus* in press: COMPERE 1931b: 253 (taxonomy, biology, Ez'Taclesan = Adi Tekelezan, Giglasciu = Ghescinascim, Nefasit).

H o s t : Coccidae: *Parasaissetia nigra* (NIETNER, 1861) (COMPERE 1931).

D i s t r i b u t i o n : Adi Tekelezan, Asmara, Ghescinascim, Nefasit.

In the Afrotropical region *Coccophagus nigrinus* is also known from Cameroon, Kenya and South Africa.

***Coccophagus ochraceus* HOWARD, 1895**

Coccophagus ochraceus HOWARD, 1895: COMPERE 1931a: 242 (biology, Asmara Plateau without exact locality).

Coccophagus ochraceus HOWARD, 1895: COMPERE 1931b: 250 (biology, Eritrea without exact locality).

Coccophagus ochraceus HOWARD, 1895: COMPERE 1940: 396 (key ♀), 398 (taxonomy, biology, Eritrea without exact locality).

Coccophagus ochraceus HOWARD, 1895: THOMPSON 1944: 102 (world host-parasitoid catalogue), 130 (world parasitoid-host catalogue).

Coccophagus ochraceus HOWARD, 1895: THOMPSON 1953: 16 (world parasitoid-host catalogue).

Coccophagus ochraceus HOWARD, 1895: DE LOTTO & NASTASI 1955: Publication not seen.

Coccophagus ochraceus HOWARD, 1895: ANNECKE & INSLEY 1971: 32 (catalogue Afrotropical region).

Coccophagus ochraceus HOWARD, 1895: ANNECKE & INSLEY 1974: 4 (key ♀), 27 (figs 66-69), 29 (taxonomy, description ♀ ♂, biology, Eritrea (COMPERE 1931b, 1940)), 58 (host-parasitoid catalogue Afrotropical region), 59 (host-parasitoid catalogue Afrotropical region).

Coccophagus ochraceus HOWARD, 1895: ABATE 1991: 20 (parasitoid-host catalogue Ethiopia: Ethiopia = Eritrea).

H o s t : Coccidae: *Saissetia oleae* (OLIVIER, 1791) (COMPERE 1931a).

D i s t r i b u t i o n : Asmara Plateau without exact locality (COMPERE 1931a).

In the Afrotropical region *Coccophagus ochraceus* is also recorded from Kenya and South Africa. The introduction into the USA was successful.

***Coccophagus philippiae* (SILVESTRI, 1915)**

Euxanthellus philippiae sp.n.: SILVESTRI 1915a: 257 (biology), 321 (typus generis, fig. 70), 322 (description ♀, figs 71.1-5, biology, Nefasit).

Euxanthellus philippiae SILVESTRI, 1915: GAHAN & FAGAN 1923: 64 (world catalogue genotypes Chalcidoidea).

Euxanthellus philippiae SILVESTRI, 1915: COMPERE 1931b: 255 (taxonomy, biology, Nefasit, various localities in Eritrea).

Euxanthellus philippiae SILVESTRI, 1915: COMPERE 1936: 281 (taxonomy, biology, Nefasit), 282 (taxonomy, description ♀ ♂, fig. 2, biology, Debre Bizen, Nefasit), 283 (figs 4a, c, g).

Euxanthellus philippiae SILVESTRI, 1915: COMPERE 1940: 395 (footnote: taxonomy, biology), 413 (biology).

Euxanthellus philippiae SILVESTRI, 1915: FULMEK 1943: 59 (world host-parasitoid catalogue), 73 (world, host-parasitoid catalogue), 89 (world parasitoid-host catalogue), 97 (biology).

Euxanthellus philippiae SILVESTRI, 1915: THOMPSON 1944: 53 (world host-parasitoid catalogue), 103 (world host-parasitoid catalogue), 135 (world parasitoid-host catalogue).

Euxanthellus philippiae SILVESTRI, 1915: THOMPSON 1953: 20 (parasitoid-host catalogue).

Euxanthellus philippiae SILVESTRI, 1915: FERRIÈRE 1965: 164 (world catalogue: Africa = Eritrea).

Euxanthellus philippiae SILVESTRI, 1915: ANNECKE & INSLEY 1971: 34 (catalogue Afrotropical region).

Euxanthellus philippiae SILVESTRI, 1915: ANNECKE & PRINSLOO 1976: 1 (taxonomy, biology, South Africa), 2 (tab. 1: taxonomy), 3 (fig. 1), 5 (tab. 2: taxonomy), 6 (key).

Coccophagus philippiae (SILVESTRI, 1915): HAYAT 1994: 85 (taxonomy).

**Euxanthellus* sp.: BOSCH et al. 1955: 54 (biology, Hamasien Plateau (Asmara, Ghescinascim)).

Euxanthellus sp.: ANNECKE & INSLEY 1971: 34 (catalogue Afrotropical region).

H o s t s : Coccidae: *Parasaissetia nigra* (NIETNER, 1861) (COMPERE 1936), *Stotzia chrysophyllae* (SILVESTRI, 1915) (Coccidae) (SILVESTRI 1915a, COMPERE 1936).

D i s t r i b u t i o n : Asmara, Debre Bizen, Ghescinascim, Nefasit.

Coccophagus philippiae is known from the Afrotropical (Eritrea), Eswatini (Swaziland), South Africa, Australian and Palaearctic regions.

***Coccophagus princeps* SILVESTRI, 1915**

Coccophagus princeps sp.n.: SILVESTRI 1915b: 357 (description ♀, Keren), 358 (figs 16.1-8).

Coccophagus princeps SILVESTRI, 1915: MERCET 1927: 495 (taxonomy).

Coccophagus princeps SILVESTRI, 1915: COMPERE 1931c: 19 (key ♀), 88 (taxonomy, description ♀ ♂, biology, Keren).

Coccophagus princeps SILVESTRI, 1915: ANNECKE & INSLEY 1971: 32 (catalogue Afrotropical region).

Coccophagus princeps SILVESTRI, 1915: ANNECKE & INSLEY 1974: 6 (key ♀), 43 (fig. 118), 45 (taxonomy, description ♀, biology, Eritrea (SILVESTRI 1915, COMPERE 1931c)), 57 (fig. 151), 58 (host-parasitoid catalogue Afrotropical region), 59 (host-parasitoid catalogue Afrotropical region).

Coccophagus princeps SILVESTRI, 1915: ABATE 1991: 20 (parasitoid-host catalogue Ethiopia: Ethiopia = Eritrea).

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

Coccophagus princeps is also recorded from Sudan.

***Coccophagus saintebeauvei* GIRAULT, 1917**

Coccophagus saintebeauvei GIRAULT, 1917: COMPERE 1931a: 242 (biology, Asmara Plateau without exact locality (see COMPERE 1931b)).

Coccophagus saintebeauvei GIRAULT, 1917: COMPERE 1931b: 251 (biology, Ez'Taclesan = Adi Tekelezan, Giglasciu = Ghescinascim).

Coccophagus saintebeauvei GIRAULT, 1917: COMPERE 1940: 397 (key ♀), 402 (taxonomy, biology, Eritrea without exact locality).

Coccophagus saintebeauvei GIRAULT, 1917: FULMEK 1943: 75 (world host-parasitoid catalogue), 87 (world parasitoid-host catalogue), 98 (biology).

Coccophagus saintebeauvei GIRAULT, 1917: THOMPSON 1944: 102 (world host-parasitoid catalogue), 130 (world parasitoid-host catalogue).

Coccophagus saintebeauvei GIRAULT, 1917: THOMPSON 1953: 16 (world parasitoid-host catalogue).

Coccophagus saintebeauvei GIRAULT, 1917: DE LOTTO & NASTASI 1955: Publication not seen.

Coccophagus saintebeauvei GIRAULT, 1917: ANNECKE & INSLEY 1971: 32 (catalogue Afrotropical region).

Coccophagus saintebeauvei GIRAULT, 1917: ANNECKE & INSLEY 1974: 5 (key ♀), 37 (figs 96-98), 38 (taxonomy, description ♀ ♂, biology, Giglasciu = Ghescinascim (Ethiopia = Eritrea), Eritrea (COMPERE 1931b, 1940)), 57 (fig. 150), 59 (host-parasitoid catalogue Afrotropical region).

Coccophagus saintebeauvei GIRAULT, 1917: ABATE 1991: 20 (parasitoid-host catalogue Ethiopia: Eritrea, Ethiopia).

H o s t : Coccidae: *Saissetia oleae* (OLIVIER, 1791) (COMPERE 1931b).

D i s t r i b u t i o n : Adi Tekelezan, Ghescinascim.

Coccophagus saintebeauvei is also known from Ethiopia, Kenya, Uganda, South Africa and Zimbabwe.

***Coccophagus spectabilis* COMPERE, 1931**

Coccophagus spectabilis COMPERE, 1931: COMPERE 1940: 397 (key ♀), 403 (taxonomy, biology, Asmara, Ez'Taclesan = Adi Tekelezan, Giglasciu = Ghescinascim).

Coccophagus spectabilis COMPERE, 1931: ANNECKE & INSLEY 1971: 33 (catalogue Afrotropical region).

Coccophagus spectabilis COMPERE, 1931: ANNECKE & INSLEY 1974: 5 (key ♀), 33 (figs 78-80), 34 (taxonomy, description ♀ ♂, biology, Eritrea (COMPERE 1931b, 1940), 57 (fig. 145), 58 (host-parasitoid catalogue Afrotropical region), 59 (host-parasitoid catalogue Afrotropical region).

Coccophagus spectabilis COMPERE, 1931: ABATE 1991: 20 (parasitoid-host catalogue Ethiopia: Eritrea, Ethiopia).

**Coccophagus* sp.: COMPERE 1931b: 254 (taxonomy, biology, Giglasciu = Ghescinascim).

Coccophagus sp.: THOMPSON 1944: 102 (world host-parasitoid catalogue), 129 (world parasitoid-host catalogue).

Coccophagus sp.: THOMPSON 1953: 11 (parasitoid-host catalogue).

H o s t : Coccidae: *Saissetia oleae* (OLIVIER, 1791) (COMPERE 1931b).

D i s t r i b u t i o n : Adi Tekelezan, Asmara, Ghescinascim.

Coccophagus spectabilis is also recorded from Ethiopia, Kenya, South Africa and Uganda.

***Coccophagus varius* (SILVESTRI, 1915)**

Prococcophagus varius sp.n.: SILVESTRI 1915b: 359 (fig. 17), 360 (typus generis, description ♀, Keren), 361 (figs 18.1-5).

Prococcophagus varius SILVESTRI, 1915: GAHAN & FAGAN 1923: 120 (world catalogue generotypes Chalcidoidea).

Prococcophagus varius SILVESTRI, 1915: COMPERE 1936: 290 (key), 292 (world catalogue).

Prococcophagus varius SILVESTRI, 1915: FERRIÈRE 1965: 164 (world catalogue).

Prococcophagus varius SILVESTRI, 1915: ANNECKE & INSLEY 1971: 36 (catalogue Afrotropical region).

Prococcophagus varius SILVESTRI, 1915: ANNECKE & MYNHARDT 1979: 290 (taxonomy, description ♂, biology, Keren), 291 (figs 1-3).

Prococcophagus varius SILVESTRI, 1915: ABATE 1991: 21 (parasitoid-host catalogue Ethiopia: Ethiopia = Eritrea).

Coccophagus varius (SILVESTRI, 1915): Viggiani 1985: 92 (taxonomy).

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

Prococcophagus varius is known from the Afrotropical (Eritrea, South Africa) and Palaearctic regions.

***Encarsia siphonini* SILVESTRI, 1915**

Encarsia siphonini sp.n.: SILVESTRI 1915a: 249 (biology), 317 (description ♀ ♂, figs 68.1-5, biology, Nefasit).

Encarsia siphonini SILVESTRI, 1915: FULMEK 1943: 77 (world host-parasitoid catalogue: Africa = Eritrea), 88 (world parasitoid-host catalogue), 98 (biology).

Encarsia siphonini SILVESTRI, 1915: THOMPSON 1944: 105 (world host-parasitoid catalogue), 132 (world parasitoid-host catalogue).

Encarsia siphonini SILVESTRI, 1915: THOMPSON 1953: 19 (parasitoid-host catalogue).

Encarsia siphonini SILVESTRI, 1915: ANNECKE & INSLEY 1971: 33 (catalogue Afrotropical region).

Encarsia siphonini SILVESTRI, 1915: MOUND & HALSEY 1979: 198 (host-parasitoid catalogue).

Encarsia siphonini SILVESTRI, 1915: VIGGIANI & MAZZONE 1980: 9 (biology), 12 (key).

Encarsia siphonini SILVESTRI, 1915: HAYAT 1989: 10 (taxonomy), 65 (taxonomy – probably synonym of *Encarsia inaron* (WALKER, 1839)).

Encarsia siphonini SILVESTRI, 1915: ABATE 1991: 21 (host-parasitoid catalogue Ethiopia: Ethiopia = Eritrea).

Encarsia siphonini SILVESTRI, 1915: HAYAT 1998: 181 (taxonomy).

H o s t : Aleyrodidae: *Siphoninus finitimus* SILVESTRI, 1915 (SILVESTRI 1915a).

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

Encarsia siphonini is recorded only from Eritrea.

Family Azotidae

Ablerus elegantulus (SILVESTRI, 1915)

Azotus elegantulus sp.n.: SILVESTRI 1915b: 363 (description ♀ ♂, figs 21.1-6, biology, Nefasit).

Azotus elegantulus SILVESTRI, 1915: MERCET 1922: 197 (world catalogue).

Azotus elegantulus SILVESTRI, 1915: FULMEK 1943: 24 (world host-parasitoid catalogue), 85 (world parasitoid-host catalogue), 98 (biology).

Azotus elegantulus SILVESTRI, 1915: THOMPSON 1953: 9 (world parasitoid-host catalogue).

Azotus elegantulus SILVESTRI, 1915: GHESQUIÈRE 1960: 8 (taxonomy).

Azotus elegantulus SILVESTRI, 1915: ANNECKE & INSLEY 1970: 245 (figs 20-24), 246 (taxonomy, biology, no Eritrean material seen), 247 (key ♀).

Azotus elegantulus SILVESTRI, 1915: ANNECKE & INSLEY 1971: 29 (catalogue Afrotropical region).

Azotus elegantulus SILVESTRI, 1915: ABATE 1991: 19 (parasitoid-host catalogue Ethiopia: Ethiopia = Eritrea).

Ablerus elegantulus (SILVESTRI, 1915): HAYAT 1994: 84 (taxonomy).

H o s t : Diaspididae: *Chionaspis* s.l. (SILVESTRI 1915b).

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

Azotus elegantulus, a hyperparasitoid, is known from the Afrotropical (Eritrea, South Africa, Mauritius), Neotropical and Palaearctic regions.

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Zusammenfassung

Die Familie Aphelinidae ist in Eritrea mit vier Gattungen und 16 Arten vertreten. Die Unterfamilie Aphytinae ist mit vier Arten aus der Gattung *Aphytis* HOWARD, 1900 nachgewiesen und die Unterfamilie Coccophaginae mit den Gattungen *Coccobius* RATZEBURG, 1852 (eine Art), *Coccophagus* WESTWOOD, 1833 (10 Arten) und *Encarsia* FÖRSTER, 1878 (eine Art). Die Familie Azotidae ist nur mit einer Art, *Ablerus elegantulus* (SILVESTRI, 1915), vertreten.

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