

SOFT WINGED FLOWER BEETLES (COLEOPTERA: MALACHIIDAE) IN EGYPT

Ashraf M. El-Torkey¹, Alaa Din A. Oshaibah², Magdi M. H. Salem³,
Mohamad T. Hossni² & Abd Allah A. El-Zouk³

¹ Plant Protection Department, College of Food and Agriculture Sciences, King Saud University, Riyadh, Saudi Arabia
– aeltorkey@ksu.edu.sa

² Department of Zoology, Faculty of Science (Boys), Al-Azhar University.

³ Plant Protection Research Institute, Agriculture Research Center.

Abstract: The distribution of the known species of the Egyptian malachiid fauna is analysed and their recent taxonomic status is assessed. Various sources indicated the existence in Egypt of 43 malachiid species belonging to 17 genera in one subfamily. Representatives of 23 species were collected in the course of the current project. The remaining 20 species have been included in our list on the basis of their presence in Egyptian insect collections.

Key words: Coleoptera, Malachiidae, faunistics, Egypt.

Maláquidos de Egipto (Coleoptera: Malachiidae)

Resumen: Se analiza la distribución de las especies de maláquidos (Coleoptera: Malachiidae) conocidas de la fauna de Egipto, y se evalúa su estatus taxonómico. Diversas fuentes han señalado la existencia en Egipto de 43 especies, pertenecientes a 17 géneros y una subfamilia. Se obtuvieron representantes de 23 especies durante la realización del presente proyecto. Las restantes 20 especies se han incluido en la lista en base a su presencia en colecciones entomológicas egipcias.

Palabras clave: Coleoptera, Malachiidae, faunística, Egipto.

Introduction

The members of family Malachiidae are small, elongate-oval, soft-bodied beetles, 1.5–7 mm in length or less; rather brightly colored, black blue or green and often with brown or yellow, red or orange markings and covered with moderately dense, erect, stiff hairs; they have peculiar orange-colored structures along the sides of abdomen, which may be averted and saclike or withdrawn into the body and inconspicuous, these are believed to be scent organs used in defense. Head more or less concealed from above and in some cases the two basal segments of the antennae are greatly enlarged. Family Malachiidae, commonly known as soft winged flower beetles, has a worldwide distribution with a marked preference for desert and arid biotopes. This family appears to have originated in the Mediterranean area, since it is the richest in its species.

Literature on the so-called soft winged flower beetles indicate that they are of minor harm to agriculture. Meanwhile, certain malachiids are considered pollinators, while others are beneficial for acting as predators attacking some insect pests. Adults are commonly found on flowers and foliage of herbaceous plants and feed on pollen or fungi and evidently feed on flower visiting insects during the course of normal adult feeding. They are also known to pollinate flowering plants, because of the dense setae and pubescence of the adults which often trap pollen grains, which are transported to other flowers.

Larvae occur in various habitats, but most commonly in soil, leaf litter or under bark as well as dead wood and in stems of plants, where they are predatory on larvae of xylophagous insects. Some known to be predatory on larvae of some nest-making Hymenoptera, others on small insects and

other small arthropods. In general, they are carnivorous or scavengers on dead animal material.

Classification, distribution and economic importance of malachiid beetles were treated by many investigators (Jacquelin du Val, 1849; Lacordaire, 1857; Peyron, 1877; Abeille de Perrin, 1885 a, b; Pic, 1911, 1919 a, b, 1921 a, b, 1929, 1931 a, b; Alfieri, 1920, 1976; Peyerimhoff, 1929; Portevin, 1931; Wittmer, 1934, 1935, 1936, 1937, 1979, 1989, 1995a, b; Greiner, 1937; Shalaby, 1958; Matthes, 1962; Farrow, 1974; Shurovenkov, 1977, 1980; Svihla, 1980, 1990; Evers, 1985; Booth *et al.*, 1990; Dix, 1990; Voicu, 1991; Buchelos & Papadoulis, 1994; Mayor, 2002; Arefnia & Tshernyshev, 2004; Mayor, 2007; Svihla & Hajek, 2009; Bahillo & Lopez, 2009; Mirutenko, 2010 & Plata-Negrache, 2010).

Material and methods

The present taxonomic work started by examination of the Egyptian Reference Insect Collections for materials regarded as malachiid beetles. These collections are: Collection of Ministry of Agriculture, Plant Protection Research Institute (MAC); Coll. of Alfieri, Al-Azhar University, Faculty of Agriculture (ALFC); Coll. of Egyptian Entomological Society (EESC); Coll. of Faculty of Science, Cairo University (CUC); Coll. of Faculty of Science, Ain Shams University (ASUC) and Coll. of the author (AUC). Examination of the external features of the mounted specimens were achieved using a stereo-binocular microscope MBC–9 (USSR) in the Plant Protection Department, College of Food and Agriculture Sciences, King Saud University. The distribution of the species in the main Egyptian biogeo-

Table I. Distribution of the species of Family Malachiidae in the main Egyptian geographical. Zones as indicated in Egyptian collections: I: Agr. Coll.; A: Alfieri Coll.; S: Society Coll.; C: Cairo Coll.; E: Ain Shams Coll.; U: Authar Coll.

Species of Malachiidae	Coastal Strip	Lower Nile	Upper Nile	Western Destert	Eastern Destert	Sinai	Gabal Elba
<i>Attalus aegyptiacus</i>	–	–	–	–	–	IAU	–
<i>Attalus lutatus</i>	–	IASU	S	I	A	–	–
<i>Attalus mitlaensis</i>	–	–	–	–	A	AU	–
<i>Attalus mokattamensis</i>	A	–	–	–	IAE	IE	–
<i>Attalus mozabita</i>	S	–	–	–	C	IAU	–
<i>Attalus schatzmayri</i>	–	–	–	–	–	–	–
<i>Attalusinus alfierii</i>	–	IAS	IS	–	–	–	–
<i>Brachyattalus anastasei</i>	–	–	–	–	–	–	–
<i>Callotroglops atrithorax</i>	–	–	–	–	A	–	–
<i>Callotroglops convexicollis</i>	–	–	–	–	–	–	–
<i>Cephaloncus aegyptiacus</i>	–	–	–	–	–	I	–
<i>Cephaloncus bispinus</i>	–	–	–	–	–	–	–
<i>Clanoptilus abdominalis</i>	IAS	U	–	–	–	–	–
<i>Clanoptilus aegyptiacus</i>	–	–	–	–	–	–	–
<i>Clanoptilus insignis</i>	–	–	–	–	–	–	–
<i>Clanoptilus sexplagiatus</i>	–	–	–	–	IA	IU	–
<i>Colotes (Heterodipnis) cinctus cinctus</i>	IAS	IASEU	–	–	IS	–	A
<i>Colotes (Heterodipnis) cinctus suturellus</i>	–	E	–	–	–	–	–
<i>Colotes (Colotes) dollfusi</i>	–	–	–	–	–	–	–
<i>Colotes (Colotes) longior</i>	I	ISU	–	–	S	–	–
<i>Colotes (Homoeodipnis) javeti</i>	S	IASU	S	–	I	–	–
<i>Colotes (Allodipnis) ogieri</i>	–	–	–	–	–	–	–
<i>Colotes (Antidipnis) punctatus</i>	–	–	–	–	–	–	–
<i>Colotes (Antidipnis) scutellaris</i>	IAS	U	–	–	–	–	–
<i>Ebaeus laterinodosus</i>	–	–	–	–	–	–	–
<i>Hypebaeina torretassoi</i>	–	–	–	–	–	I	–
<i>Hypebaeus (Hypebaeus) elongaticornis</i>	–	–	–	–	–	–	–
<i>Hypebaeus (Allogynes) nodipennis</i>	S	–	–	–	–	–	–
<i>Hypebaeus (Hypebaeus) peyerimhoffi</i>	–	U	–	–	IAS	IA	–
<i>Laius venustus</i>	SU	IASCU	IS	IACU	ISC	I	–
<i>Malachiomimus sinaitus</i>	–	–	–	–	I	U	–
<i>Malachius alfierii</i>	–	–	–	–	S	U	–
<i>Malachius coccineus</i>	–	–	–	–	–	–	–
<i>Nudoplectinus flabellicornis</i>	S	IASEU	–	E	AC	–	–
<i>Protapalochrus flavolimbatus</i>	IS	IASEU	–	–	IA	–	–
<i>Psiloderes diabolicus</i>	S	–	–	–	–	–	–
<i>Psiloderes sinaiticus</i>	–	–	–	–	–	–	–
<i>Psiloderes viridiceps</i>	–	–	–	–	–	–	–
<i>Troglops alfierianus</i>	–	–	–	–	–	–	–
<i>Troglops apterus</i>	IAS	–	–	–	–	–	–
<i>Troglops atriceps</i>	–	–	–	–	–	–	–
<i>Troglops orientalis</i>	–	–	–	–	–	–	–
<i>Troglops rabinocitchi</i>	–	–	–	–	–	–	–

graphical zones is plotted in maps using DIVA-GIS (Ver. 7.1.7).

A field survey of malachiid beetles was under taken over a great area of the Egyptian territories and covered the main geographical zones (Table I).

Results

Family Malachiidae Fleming, 1821

Tribe Apalochrini Mulsant & Rey, 1867

Laius venustus Erichson, 1840

Laius venustus Erichson, 1840: 63

Laius abyssinicus Pic, 1917: 5.

Laius bedforti Pic, 1928: 5.

Laius bifasciatus Laporte, 1840a: 280.

Laius letourneuxi Pic: 5.

Laius rugosiceps Pic, 1922: 159.

TYPE LOCALITY: Pyramides [Giza, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Lower & Upper Nile Valley, Eastern & Western Desert and Sinai.

WORLD DISTRIBUTION: Egypt, Saudi Arabia, Yemen and Afrotropical Region.

MATERIAL EXAMINED: Talbieh N 29.99743 E 31.17384 (Giza), 28-4-1925; Abu Rawash N 30.05385 E 31.07669 (Giza), 8-9-1911; Shoubr N 30.08034 E 31.25528 (Cairo), 2-8-1913; Massara N 30.0709 E 31.2451 (Cairo), 1-12-1935; Mansouriah N 30.1383 E 31.0712 (Giza), 1-11-1935. {14, ALFC}; Nahia N 30.0465 E 31.12563 (Giza), on Sugar Cane, 3-8-2008; Kirdasa N 30.03226 E 31.10908 (Giza), on Halfa, 10-1-2008; Kirdasa N 30.03226 E 31.10908 (Giza), on Sugar Cane, 30-7-2008; Kirdasa N 30.03226 E 31.10908 (Giza), on Cotton, 11-7-2010; Kirdasa N 30.03226 E 31.10908 (Giza), 11-7-2010; Helwan N 29.960289 E 31.2577285, on Halfa, 10-12-2008; Helwan N 29.960289 E 31.2577285, 30-9-2009; Helwan N 29.960289 E 31.2577285, 2-8-2010; El-Warrak N 30.09948 E 31.21308 (Giza), on Halfa 11-8-2009; Nahia N 30.0465 E 31.12563 (Giza), on Sugar Cane, 3-8-2009; Imbaba N 30.08333 E 31.21667 (Giza), 21-11-2008; Tokh N 30.3502 E 31.2013 (Qalyubiya), on Manderina, 13-12-2008; Kafir Hakim N 30.08169 E 31.1152 (Giza), on Cotton, 13-9-2009; Abu Rawash N 30.05385 E 31.07669 (Giza), 25-7-2008; Tanta N 30.7795 E 31.0257 (Gharbiya), on Manderina, 5-11-2009; Mansouriah N 30.1383 E 31.0712 (Giza), 26-11-2010; Saft el laban N 30.0291 E 31.1678 (Giza), 31-8-2010. {20, AUC}; Abu Rawash N 30.05385 E 31.07669 (Giza), 26-8-1925; Borgash N 30.16569 E 31.03274 (Giza), 16-9-1925; Helwan N 29.960289 E 31.2577285, 15-10-1935; Ghobbt El-Bous N 29.63975 E 32.34494 (Suez), 26-6-1929. {4, CUC}; Seila N

29.30267 E 30.83599 (Fayium), 27-10-1912; Cairo N 30.05041 E 31.2538, 10-7-1907; Abu Rawash N 30.05385 E 31.07669 (Giza), 1-1-1912; Abu Rawash N 30.05385 E 31.07669 (Giza), 7-1909; Luxor N 25.68889 E 32.65404, 7-1910; Fayium N 29.30267 E 30.83599, 1-7-1907; Talbieh N 29.99743 E 31.17384 (Giza), 29-11-1908; Beni Mazar N 28.49838 E 30.79803 (El-Minya), 22-1-1915; Beni Mazar N 28.49838 E 30.79803 (El-Minya), 17-11-1916; Barrage N 30.2 E 31.13333 (Giza), 21-8-1912; Pyramids N 29.97633 E 31.11251 (Giza), 1-1-1914; Pyramids N 29.97633 E 31.11251 (Giza), 10-3-1916; Pyramids N 29.97633 E 31.11251 (Giza), 18-9-1907; Maadi N 29.960289 E 31.2577285 (Cairo), 11-1919; Massara N 30.0709 E 31.2451 (Cairo), 5-1915; Qratein N 30.15004 E 31.14984 (Giza), 1-1923; Alexandria N 29.88235 E 31.17794, 9-1927. {80, EESC}; Tura N 29.93733 E 31.27858 (Helwan), 7-5-1913; Pyramids N 29.97633 E 31.11251 (Giza), 8-12-1913; Assuit N 27.18166 E 31.18759, 9-8-1916; Giza N 30.00135 E 31.19738, 10-9-1916; Maadi N 29.960289 E 31.2577285 (Cairo), 20-9-1916; Giza N 30.00135 E 31.19738, 20-9-1916; Eion Moussa N 29.86738 E 32.63883 (Sinai), 27-9-1917; Gemmeiza N 29.6953 E 31.314147 (Gharbiya), 21-9-1918; Khanka N 30.21722 E 31.35781 (Kalioubiya), 25-7-1921; Cairo N 30.05041 E 31.2538, 2-2-1924; Kafr Hakim N 30.08169 E 31.1152 (Giza), 25-12-1924; Abu Rawash N 30.05385 E 31.07669 (Giza), 10-12-1924; Kafr Hakim N 30.08169 E 31.1152 (Giza), 30-12-1924; Abu Rawash N 30.05385 E 31.07669 (Giza), 19-6-1925; Kafr Hakim N 30.08169 E 31.1152 (Giza), 22-7-1925; Abu Rawash N 30.05385 E 31.07669 (Giza), 25-7-1925; Kafr Hakim N 30.08169 E 31.1152 (Giza), 19-8-1925; Borgash N 30.16569 E 31.03274 (Giza), 16-9-1925; Mansouriah N 30.1383 E 31.0712 (Giza), 21-10-1925; Kafr Hakim N 30.08169 E 31.1152 (Giza), 31-10-1926; Mazghuna N 29.73763 E 31.25821 (Giza), 12-11-1926; Mansouriah N 30.1383 E 31.0712 (Giza), 17-9-1927; Kafr Hakim N 30.08169 E 31.1152 (Giza), 28-7-1928; Mazghuna N 29.73763 E 31.25821 (Giza), 5-9-1928; Kafr Hakim N 30.08169 E 31.1152 (Giza), 27-6-1929; Mazghuna N 29.73763 E 31.25821 (Giza), 28-6-1929; Nahia N 30.0465 E 31.12563 (Giza), 15-8-1929; Abu Rawash N 30.05385 E 31.07669 (Giza), 19-10-1929; Helwan N 29.960289 E 31.2577285, 11-3-1930; Giza N 30.00135 E 31.19738, 26-7-1930; Gemmeiza N 29.6953 E 31.314147 (Gharbiya), 26-7-1930; Nahia N 30.0465 E 31.12563 (Giza), 27-7-1930; Kirdasa N 30.03226 E 31.10908 (Giza), 20-10-1930; Mansouriah N 30.1383 E 31.0712 (Giza), 4-12-1930; Maadi N 29.960289 E 31.2577285 (Cairo), 15-3-1931; Abu Rawash N 30.05385 E 31.07669 (Giza), 5-6-1931; Helwan N 29.960289 E 31.2577285, 9-6-1931; Helwan N 29.960289 E 31.2577285, 1-9-1931; Imbaba N 30.08333 E 31.21667 (Giza), 21-11-1931; Borgash N 30.16569 E 31.03274 (Giza), 27-7-1932; Helwan N 29.960289 E 31.2577285, 23-9-1932; Helwan N 29.960289 E 31.2577285, 6-12-1932; Helwan N 29.960289 E 31.2577285, 10-12-1932; Pyramids N 29.97633 E 31.11251 (Giza), 12-6-1933; Kirdasa N 30.03226 E 31.10908 (Giza), 10-1-1934. {108, MAC}.

***Nudoplectinus flabellicornis* (Erichson, 1840)**

Apalochrus flabellicornis Erichson, 1840: 52.

Nudoplectinus bijunctus Pic, 1899:231.

Nudoplectinus sudanicus Pic, 1931:101.

TYPE LOCALITY: Egypt.

LOCAL DISTRIBUTION: This species is distributed in Lower Nile Valley, Coastal Strip and Western Desert.

WORLD DISTRIBUTION: Egypt and Afrotropical region.

MATERIAL EXAMINED: Mataria N 30.12989 E 31.32053 (Cairo), 3-1908; Wadi zohleiga N 28.99856 E 34.29718 (Helwan), 20-6-1921; Ezbet El-Nakhl N 30.15032 E 31.31702 (Cairo), 3-7-1909. {3, ALFC}; Cairo N 30.05041 E 31.2538, 21-2-1937, on *Acacia nilotica*; Abu Rawash N 30.05385 E 31.07669, 29-7-1958. {4, ASUC}; Mansouriah N 30.1383 E 31.0712 (Giza), 5-6-2008; Nahia N 30.0465 E 31.12563 (Giza), on Sunt, 1-8-2008; Nahia N 30.0465 E 31.12563 (Giza), on Sunt, 3-8-2009; Borgash N 30.16569 E 31.03274 (Giza), 26-8-2009. {5, AUC}; Cairo N 30.05041 E 31.2538, 21-7-1912; Cairo N 30.05041 E 31.2538, 11-9-1902; Cairo

N 30.05041 E 31.2538, 22-9-1905; Cairo N 30.05041 E 31.2538, 1908; Mataria N 30.12989 E 31.32053 (Cairo), 13-5-1912; Alexandria N 29.88235 E 31.17794, 1913; Mazghuna N 29.73763 E 31.25821 (Giza), 23-9-1905; Giza N 30.00135 E 31.19738, 7-1907; Giza N 30.00135 E 31.19738, 7-1913; Pyramids N 29.97633 E 31.11251 (Giza), 24-5-1915; Pyramids N 29.97633 E 31.11251 (Giza), 3-8-1913; Alag N 30.1739 E 31.3437 (Qalioubiya), 23-8-1913; Dahshor N 29.75458 E 31.23541 (Giza), 9-1927. {27, EESC}; Giza N 30.00135 E 31.19738, 1-9-1928 Mealy bugs on Lebekh; Giza N 30.00135 E 31.19738, 10-10-1928; Mansouriah N 30.1383 E 31.0712 (Giza), 4-6-1933; Kirdasa N 30.03226 E 31.10908 (Giza), 9-9-1934; Tameiya N 29.30267 E 30.83599 (Faiyum), 30-9-1934. {12, MAC}.

***Protapalochrus flavolimbatus* Mulsant & Rey, 1853**

Protapalochrus flavolimbatus Mulsant & Rey, 1853: 8.

Protapalochrus cretica Pic, 1903: 77.

Apalochrus tricolor Kiesenwetter, 1859: 30.

TYPE LOCALITY: Egypt.

LOCAL DISTRIBUTION: This species is distributed in Lower Nile Valley, Upper Nile Valley, Coastal Strip and Eastern Desert.

WORLD DISTRIBUTION: Algeria, Cyprus, Egypt, France, Italy, Morocco, Spain and Tunis.

MATERIAL EXAMINED: Geneifa N 30.20953 E 32.4295 (Suez), 23-9-195; Fayed N 30.63911 E 32.26877 (Ismailiya), 3-10-1910; Kantara N 30.85 E 32.31 (Ismailiya), 10-1910; Ein Shams N 30.12734 E 31.31712 (Cairo), 11-7-1913; Talbieh N 29.99743 E 31.17384 (Giza), 28-4-1915. {7, ALFC}; Kom Osheim N 29.56866 E 30.9073 (Giza), 6-5-1956. {9, ASUC}; Abu Zabal N 30.28493 E 31.36272 (Qalioubiya), 25-6-2008; Mahmacha N 30.07075 E 31.26009 (Giza), 8-9-2008. {3, AUC}; Ezbet El-Nakhl N 30.15032 E 31.31702 (Cairo), 20-10-1915; Mahmacha N 30.07075 E 31.26009 (Giza), 26-8-1907; Fayed N 30.63911 E 32.26877 (Ismailiya), 3-10-1910; Alexandria N 29.88235 E 31.17794, 7-5-1909; Alexandria N 29.88235 E 31.17794, 6-6-1911; Sherbeen N 31.19669 E 31.52604 (Daqahliya), 27-4-1913; Mahmacha N 30.07075 E 31.26009 (Giza), 27-9-1908; Alexandria N 29.88235 E 31.17794, 3-4-1911; Alexandria N 29.88235 E 31.17794, 2-6-1906; Alexandria N 29.88235 E 31.17794, 2-6-1910. {34, EESC}; Fayed N 30.63911 E 32.26877 (Ismailiya), 10-1909; Fayed N 30.63911 E 32.26877 (Ismailiya), 30-6-1910; Ras EL Bar N 31.51381 E 31.82492 (Damietta), 7-1916; Sherbeen N 31.19669 E 31.52604 (Daqahliya), 14-9-1925; Geneifa N 30.20953 E 32.4295 (Suez), 23-9-1925; Fayed N 30.63911 E 32.26877 (Ismailiya), 2-10-1925; Gabal Asfar N 30.2282 E 31.40817 (Cairo), 27-10-1925; Fayed N 30.63911 E 32.26877 (Ismailiya), 22-8-1932; Atar El-Nabi (Cairo), 17-8-1933; Gabal Asfar N 30.2282 E 31.40817 (Cairo), 14-7-1933; Abu Zabal N 30.28493 E 31.36272 (Qalioubiya), 24-6-1934. {30, MAC}.

Tribe Attalini Abeille, 1890

***Attalus aegyptiacus* Pic, 1911**

Attalus aegyptiacus Pic, 1911:73.

TYPE LOCALITY: Wardan [Giza, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Upper Nile Valley and Sinai.

WORLD DISTRIBUTION: Egypt.

MATERIAL EXAMINED: Wadi Belda N 28.21576 E 34.2797 (S. Sinai), 9-3-1928. {4, ALFC}; Wadi Belda N 28.21576 E 34.2797 (S. Sinai), 15-5-2009. {1, AUC}; Wadi Belda N 28.21576 E 34.2797 (S. Sinai), 9-3-1928. {1, MAC}.

***Attalus lutatus* Abeille, 1890**

Attalus lutatus Abeille, 1890: 46.

Attalus tournieri Pic, 1914: 50.

TYPE LOCALITY: Cairo [Egypt].

LOCAL DISTRIBUTION: This species is distributed in Lower & Upper Nile Valley.

WORLD DISTRIBUTION: Egypt.

MATERIAL EXAMINED: kafr Hakim N 30.08169 E 31.1152 (Giza), 18-

8-1928; Shoubra N 30.08034 E 31.25528 (Cairo), 7-1913; Helwan N 29.960289 E 31.2577285 (Cairo), 26-8-1930; Mahmasha N 30.07075 E 31.26009 (Cairo), 14-7-1909; Mansouriah N 30.1383 E 31.0712 (Giza), 7-5-1914. {5, ALFC}; Nahya N 30.0465 E 31.12563 (Giza), 6-8-2009; Mansouriah N 30.1383 E 31.0712 (Giza) on Grasses, 5-6-2008. {3, AUC}; Mataria N 30.12989 E 31.32053 (Cairo), 8-1907; Mataria N 30.12989 E 31.32053 (Cairo), 17-5-1914; Marg N 30.16127 E 31.34882 (Cairo), 21-2-1914; Luxor N 25.68889 E 32.65404, 7-1-1908; Barrage N 30.2 E 31.13333 (Giza), 23-8-1912; Pyramids N 29.97633 E 31.11251 (Giza), 4-5-1915; Talbieh N 29.99743 E 31.17384 (Giza), 13-10-1913; Imbaba N 30.08333 E 31.21667 (Giza), 7; Shoubra N 30.08034 E 31.25528 (Cairo), -10-1910. {14, EESC}; Nahya N 30.0465 E 31.12563 (Giza), 8-8-1929; Maasarah N 30.0708961 E 31.2451019 (Cairo), 6-9-1931; Abu Rawash N 30.05385 E 31.07669 (Giza), 13-9-1931; Abu Rawash N 30.05385 E 31.07669 (Giza), 11-9-1932; Mansouriah N 30.1383 E 31.0712 (Giza), 4-6-1933; Abu Rawash N 30.05385 E 31.07669 (Giza), 25-6-1933; Maadi N 29.960289 E 31.2577285 (Cairo), 21-8-1933; Abu Rawash N 30.05385 E 31.07669 (Giza), 24-8-1933; Mansouriah N 30.1383 E 31.0712 (Giza), 2-1934; Marg N 30.16127 E 31.34882 (Cairo), 11-6-1935. {13, MAC}.

***Attalus mitlaensis* Wittmer, 1937**

Attalus mitlaensis Wittmer, 1937: 168.

TYPE LOCALITY: Wadi Um-Mitla [Sinai, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Sinai.

WORLD DISTRIBUTION: Egypt.

MATERIAL EXAMINED: Wadi Um Mitla N 30.49017 E 33.72486 (Sinai), 21-3-1937; Wadi El-Ghedirat N 30.64724 E 34.41211 (Sinai), 13-3-1937. {22 ALFC}; Wadi Um Mitla N 30.49017 E 33.72486 (Sinai), 29-3-2009. {1 AUC}.

***Attalus mokattamensis* Pic, 1912**

Attalus mokattamensis Pic, 1912: 33.

TYPE LOCALITY: Mokattam [Cairo, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Lower & Upper Nile Valley, Eastern Desert and Sinai.

WORLD DISTRIBUTION: Egypt.

MATERIAL EXAMINED: Wadi Zohleiga N 28.99856 E 34.29718 (S. Sinai), 25-8-1925; on *Launea nudicollis* (L.); Wadi Digla N 29.93269 E 31.42776 (Helwan), 7-3-1930; Ogret el Shekh N 29.88784 E 31.3652 (Red Sea), 11-4-1921; Mataria N 30.12989 E 31.32053 (Cairo), 4-7-1910; Mokattam N 30.02098 E 31.29796 (Cairo), 3-1910. {11, ALFC}; Wadi Digla N 29.93269 E 31.42776 (Helwan), 13-3-1955. {2, ASUC}; Wadi Hoff N 29.88784 E 31.3652 (Helwan), 10-3-1916; Wadi Hoff N 29.88784 E 31.3652 (Helwan), 26-3-1916; Wadi Houssein N 25.28298 E 32.4836 (Qena), 24-5-1916; Eion Moussa N 29.86738 E 32.63883 (Sinai), 16-3-1925; Wadi Zohleiga N 28.99856 E 34.29718 (S. Sinai), 25-8-1925 on *Launea nudicollis* (L.). {11, MAC}.

***Attalus mozabita* Chobaut, 1897**

Attalus mozabita Chobaut, 1897: 278.

TYPE LOCALITY: Eion Moussa [Sinai, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Lower Nile Valley and Sinai.

WORLD DISTRIBUTION: Algeria, Egypt, Jordan and Morocco.

MATERIAL EXAMINED: Eion Moussa N 29.86738 E 32.63883 (Sinai), 27-9-1934; Bir Meyer N 27.58906 E 31.10973 (Sinai), 20-9-1936; Wadi Gerrawi N 29.78421 E 31.31595 (Red Sea), 9-9-1933. {5, ALFC}; Bir Meyer N 27.58906 E 31.10973 (Sinai), 20-9-2008. {1, AUC}; Wadi El-Ghedirat N 30.64724 E 34.41211 (Sinai), 7-8-1951. {12, CUC}; Ein Shams N 30.12734 E 31.31712 (Cairo), 27-9-1934. {1, EESC}; Eion Moussa N 29.86738 E 32.63883 (Sinai), 27-9-1934; Bir Meyer N 27.58906 E 31.10973 (Sinai), 20-9-1936; Wadi Um Mitla N 30.49017 E 33.72486 (Sinai), 12-3-1937. {11, MAC}.

***Attalus schatzmayri* Wittmer, 1934**

Attalus schatzmayri Wittmer, 1934: 453.

TYPE LOCALITY: Salloum [Egypt].

LOCAL DISTRIBUTION: This species is distributed in Coastal Strip.

WORLD DISTRIBUTION: Egypt.

***Malachiomimus sinaitus* (Pic, 1921)**

Attalus sinaitus, Pic, 1921: 13.

TYPE LOCALITY: Sinai [Egypt].

LOCAL DISTRIBUTION: This species is distributed in Sinai and Eastern Desert.

WORLD DISTRIBUTION: Egypt.

MATERIAL EXAMINED: Wadi Birqena N 27.47829 E 32.82051 (Red Sea), 30-4-1925. {1, ALFC}; Wadi Um Mitla N 30.49017 E 33.72486 (Sinai), 29-3-2009. {2, AUC}; Kosseir N 26.1062 E 34.2793 (Red Sea), 7-2-1924; Wadi Um Mitla N 30.49017 E 33.72486 (Sinai), 12-3-1937; Wadi Ghedirat N 30.64724 E 34.41211 (Sinai), 3-1937; Wadi Um Mitla N 30.49017 E 33.72486, 21-2-1937. {18, MAC}.

***Colotes (Allodipnis) ogieri* (Fairmaire, 1864)**

Ebaeus ogieri Fairmaire, 1864: 641.

Colotes unicolor Pic, 1895: CXXVII.

TYPE LOCALITY: Biskra [Constantine, Algeria].

LOCAL DISTRIBUTION: This species is distributed in Lower & Upper Nile Valley and Coastal Strip.

WORLD DISTRIBUTION: Algeria, Egypt, Morocco and Tunis.

MATERIAL EXAMINED: Maadi N 29.960289 E 31.2577285 (Cairo), 1-3-1912; Tura N 29.93733 E 31.27858 (Helwan), 10-3-1907; Maadi N 29.960289 E 31.2577285 (Cairo). {15, ALFC}; Mariout N 29.77329 E 31.01192 (Alex.), 15-3-2008. {3, AUC}; Tura N 29.93733 E 31.27858 (Helwan), 21-3-1912; Maadi N 29.960289 E 31.2577285 (Cairo), 3-1907; Helwan N 29.960289 E 31.2577285, 1907; Nefisha N 30.56556 E 32.22121 (Ismaliya), 12-7-1910; Barrage N 30.2 E 31.13333 (Giza), 8-1910. {25, EESC}; Maadi N 29.960289 E 31.2577285 (Cairo), 1-3-1912; Cairo N 30.05041 E 31.2538, 2-4-1916; Beni Suef N 29.08333 E 31.08333, 5-4-1916, El-Wasta N 29.33333 E 31.2 (Beni Suef), 25-3-1934; Kingi Mariout N 29.77329 E 31.01192 (Alex.), 17-3-1935. {12, MAC}.

***Colotes (Antidipnis) punctatus* (Erchson, 1840)**

Charopus punctatus Erchson, 1840: 122.

Colotes rubripes Jacqu. du Val, 1852: 707.

Colotes colon Abeille, 1890: 259.

Colotes pygmaeus Abeille, 1890: 259.

Colotes immaculatus Escalera, 1914: 233.

Colotes obscurithorax Pic, 1914: 24.

TYPE LOCALITY: Meridionale [France].

LOCAL DISTRIBUTION: This species is distributed in Western Desert

WORLD DISTRIBUTION: Algeria, Egypt, France, Germany, Italy, Malta, Morocco, Portugal, Spain and Tunis.

***Colotes (Antidipnis) scutellaris* Pic, 1919**

Colotes scutellaris Pic, 1919: 46.

TYPE LOCALITY: Mariout [Alexandria, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Coastal Strip.

WORLD DISTRIBUTION: Egypt.

MATERIAL EXAMINED: Kingi Mariout N 29.77329 E 31.01192 (Alex.), 19-3-1914; El-Borg N 29.77329 E 31.01192 (Alex.), 2-5-1921. {9, ALFC}; Mariout N 29.77329 E 31.01192 (Alex.), 16-3-2008. {1, AUC}; Kingi Mariout N 29.77329 E 31.01192 (Alex.), 16-3-1935. {1, EESC}; Kingi Mariout N 29.77329 E 31.01192 (Alex.), 16-3-1935; Mersa Matrouh N 27.23701 E 31.35577, 17-3-1935; Ameriah N 29.83024 E 31.02343 (Alex.), 13-6-1936; Kingi Mariout N 29.77329 E 31.01192 (Alex.), 6-4-1937. {11, MAC}.

***Colotes (Colotes) dollfusi* Pic, 1938**

Colotes dollfusi Pic, 1938: 251.

TYPE LOCALITY: [Sinai, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Sinai.

WORLD DISTRIBUTION: Egypt.

***Colotes (Colotes) longior* Pic, 1938**

Colotes longior Pic, 1938e: 10.

TYPE LOCALITY: Egypt.

DISTRIBUTION: Egypt.

***Colotes (Heterodipnis) cinctus cinctus* Motschulsky, 1853**

Colotes cinctus Motschulsky, 1853: 56.

Colotes inlateralis Pic, 1938: 10.

Antidipnis palpator Marsual, 1868: 188.

TYPE LOCALITY: Egypt.

LOCAL DISTRIBUTION: This species is distributed in Lower Nile Valley, Coastal Strip, Western & Eastern Desert, and Gabal Elba.

WORLD DISTRIBUTION: Beirut, Cyprus, Egypt, Palestine and Syria.

MATERIAL EXAMINED: King Mariout N 29.77329 E 31.01192 N 29.77329 E 31.01192 (Alex.), 8-8-1934; King Mariout N 29.77329 E 31.01192 (Alex.), 14-7-1917; Mansouriah N 30.1383 E 31.0712 (Giza), 4-6-1934; King Mariout N 29.77329 E 31.01192 (Alex.), 2-7-1937; Barrage N 30.2 E 31.13333 (Giza), 15-5-1910; Marg N 30.16127 E 31.34882 (Cairo), 5-1908; Gabal Elba N 22.111614 E 36.221509, 7-3-1939; Abu Qir N 30.05493 E 31.31661 (Alex.), 1934. {9, ALFC}; Baharia N 28.34983 E 28.911 (Westren Desart), 28-1-1958. {1, ASUC}; Mansouriah N 30.1383 E 31.0712 (Giza), 6-6-2008. {1, AUC}; Alexandria N 29.88235 E 31.17794, 2-6-1906; Alexandria N 29.88235 E 31.17794, 13-5-1911; Alexandria N 29.88235 E 31.17794, 4-1910; Alexandria N 29.88235 E 31.17794, 9-1909; Ras EL Bar N 31.51381 E 31.82492 (Damietta), 27-6-1906; Wardan N 30.31632 E 30.90539 (Giza), 8-3-1907; Tura N 29.93733 E 31.27858 (Helwan), 1-4-1906; Sherbeen N 31.19669 E 31.52604 (Daquhlia), 27-4-1913; Ismailia N 30.63911 E 32.26877, 5-1910; Talbieh N 29.99743 E 31.17384 (Giza), 9-1912; Marg N 30.16127 E 31.34882 (Cairo), 3-1916; Ezbet El Nakhl N 30.15032 E 31.31702 (Cairo), 16-4-1916. {17, EESC}; King Mariout N 29.77329 E 31.01192 (Alex.), 8-8-1934; Abu Seir N 29.5334 E 30.91193, (Burg El-Arab, Alex.), 12-6-1936; Abu Qir N 30.05493 E 31.31661 (Alex.), 5-8-1934; Wadi Abu Goafan N 30.07154 E 31.96228 (Suez), 26-3-1918; Wadi Um Elek N 29.88784 E 31.3652 (Red Sea), 21-3-1924; Mansouriah N 30.1383 E 31.0712 (Giza), 4-6-1934; Shoubramant N 29.93677 E 31.17814 (Giza), 15-10-1933. {12, MAC}.

***Colotes (Heterodipnis) cinctus suturellus* Wittmer, 1935**

Colotes suturellus Wittmer, 1935: 186.

TYPE LOCALITY: Wadi Hebran [Sinai, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Sinai.

WORLD DISTRIBUTION: Egypt.

***Colotes (Homoeodipnis) javeti* Jacquelin du val, 1852**

Colotes javeti Jacquelin du val, 1852: 705.

Colotes rufthorax Jacquelin du Val, 1852: 706.

TYPE LOCALITY: Meridionale [France].

LOCAL DISTRIBUTION: This species is distributed in Lower and Upper Nile Valley and Coastal Strip.

WORLD DISTRIBUTION: Algeria, Egypt, France, Italy, Morocco, Portugal, Spain and Tunis.

MATERIAL EXAMINED: Ezbet El-Nakhl N 30.15032 E 31.31702 (Cairo), 3-7-1909; Ezbet El-Nakhl N 30.15032 E 31.31702 (Cairo), 5-4-1914; Wadi Hoff N 29.88784 E 31.3652 (Helwan), 14-3-195; Barrage N 30.2 E 31.13333 (Giza), 15-5-1906, Kalioubiya N 30.17797 E 31.20523, 22-8-1913; El Marg N 30.16127 E 31.34882 (Cairo), 5-1910; Kalioubiya N 30.17797 E 31.20523, 15-7-1909. {12, ALFC}; Kom Osheim N 29.56866 E 30.9073 (Giza), 9-5-1954. {2, ASUC}; El Warrak N 30.09948 E 31.21308 (Giza), 1-8-2008. {2, AUC}; Nefisha N 30.56556 E 32.22121 (Ismailia), 12-6-1910; Barrage N 30.2 E 31.13333 (Giza), 15-3-1906; Barrage N 30.2 E 31.13333 (Giza), 12-12-1906; Barrage N 30.2 E 31.13333 (Giza), 23-8-1912; Barrage N 30.2 E 31.13333 (Giza), 8-1908; Tura N 29.93733 E 31.27858 (Helwan), 31-12-1906; Alexandria N 29.88235 E 31.17794, 26-3-1910; Alexandria N 29.88235 E 31.17794, 9-1906; Alexandria N 29.88235 E 31.17794, 15-12-1907; Shoubra N 30.08034 E 31.25528 (Cairo), 21-7-1912; Wardan N 30.31632 E 30.90539 (Giza), 8-9-1907; Beni Mazar N 28.49838 E 30.79803 (El-Minya), 27-5-1915; Talbieh N 29.99743 E 31.17384 (Giza), 9-1908; Talbieh N 29.99743 E 31.17384 (Giza), 4-10-1909; Nahia N 30.0465 E 31.12563 (Giza), 5-3-1907; Marg N 30.16127 E 31.34882 (Cairo), 3-1912; Kirdasa N 30.03226 E 31.10908 (Giza), 7-1912. {79, EESC}; Imbaba N 30.08333 E 31.21667 (Giza), 22-6-

1913, on Grasses; Helwan, 5-10-1930, on Sugar cane; Faqus N 30.86753 E 31.868212 (Sharqiya), 13-12-1931; Warrak El-Hadar N 30.11685 E 31.2333 (Giza), 24-4-1932, on Halfa; Gabal Asfar N 30.2282 E 31.40817 (Cairo), 29-9-1932 on Datoura; Gabal Asfar N 30.2282 E 31.40817 (Cairo), 14-7-1933; Ezbet El-Nakhl N 30.15032 E 31.31702 (Cairo), 9-7-1933; Maadi N 29.960289 E 31.2577285 (Cairo), 7-8-1933; El-Warrak N 30.09948 E 31.21308 (Giza), 11-8-1933 on Halfa; Barrage N 30.2 E 31.13333 (Giza), 26-8-1933; Mitt Okba N 30.08439 E 31.14231 (Giza), 15-9-1933, on Halfa; Beni Yousef N 29.91144 E 31.16716 (Giza), 28-5-1934. {38, MAC}.

Tribe Ebaeini Portevin, 1931

***Ebaeus laterinodosus* (Wittmer, 1936)**

Hypebaeus laterinodosus Wittmer, 1936: 153.

TYPE LOCALITY: Wadi Luotaie [Sinai, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Sinai.

WORLD DISTRIBUTION: Egypt.

***Hypebaeina torretassoi* (Wittmer, 1935)**

Hypebaeus torretassoi Wittmer, 1935: 187.

TYPE LOCALITY: Wadi Hebran [Sinai, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Sinai.

WORLD DISTRIBUTION: Egypt.

MATERIAL EXAMINED: Wadi Luotaie N 29.24999 E 32.51668 (Sinai), 5-3-1935; Wadi Hebran N 28.42664 E 33.58915 (Sinai), 6-3-1935; Wadi Um Mitla N 30.49017 E 33.72486 (Sinai), 21-3-1937. {5, MAC}.

***Hypebaeus (Allogynes) nodipennis* (Krynicky, 1832)**

Malachus nodipennis Krynicky, 1832: 100.

Ebaeus cordicollis Kiesenwetter, 1859: 33.

Charopus scitulus Erichson, 1840: 122.

TYPE LOCALITY: Wadi Isla [Sinai, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Coastal Strip and Sinai.

WORLD DISTRIBUTION: Egypt, Greece, Iraq, Palestine, Syria and Turkey.

MATERIAL EXAMINED: Alexandria N 29.88235 E 31.17794, 17-3-1911. {1, EESC}.

***Hypebaeus (Hybebaeus) elongaticornis* Wittmer, 1960**

Hypebaeus elongaticornis, Wittmer, 1960: 110

TYPE LOCALITY: Ougret el Shekh, [Red Sea, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Eastern Desert.

WORLD DISTRIBUTION: Egypt.

***Hypebaeus (Hybebaeus) peyerimhoffi* Abeille, 1907**

Hypebaeus peyerimhoffi Abeille, 1907: 18.

Hypebaeus alferii Pic, 1919: 45.

TYPE LOCALITY: Wadi Gerrawi [Red Sea, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Lower Nile Valley, Eastern Desert and Sinai.

WORLD DISTRIBUTION: Egypt.

MATERIAL EXAMINED: Wadi Gerrawi N 29.78421 E 31.31595 (Red Sea), 19-4-1923; Wadi Gerrawi N 29.78421 E 31.31595 (Red Sea), 24-3-1925; Wadi um enab N 25.95171 E 34.3844 (Red Sea), 9-4-1934; Ogret el sheikh N 29.88784 E 31.3652 (Red Sea), 11-4-1921; Sinai, 3-5-1935; Ogret el sheikh N 29.88784 E 31.3652 (Red Sea), 21-3-1924; South Sinai N 29.14827 E 33.54349, 10-12-1940 ; W. Gerrawi N 29.78421 E 31.31595 (Red Sea), 24-3-1918. {18, ALFC}; Wadi Hoff N 29.88784 E 31.3652 (Helwan), 1-3-2009. {1, AUC}; Wadi Hoff N 29.88784 E 31.3652 (Helwan), 4-3-1934. {1, EESC}; Wadi Gandali N 29.90658 E 31.677386 (Sinai), 21-6-1916, on Katama; Wadi Um Elek N 29.88784 E 31.3652 (Red Sea), 30-3-1918; Wadi Hoff N 29.88784 E 31.3652 (Helwan), 20-2-1925; Wadi Aschar N 28.79067 E 32.33808 (Beni Suef), 28-2-1926, Retama; Wadi Um Assad N 29.3205 E 34.6691 (Helwan), 18-3-1935, Retama; Wadi Rashirash N 29.38776 E 31.63831 (Giza), 27-3-1935; Wadi Um Siala N 30.04119 E 32.11025 (Helwan), 3- 1935 Wadi

Hoff N 29.88784 E 31.3652 (Helwan), 4-3-1934; Wadi Digla N 29.93269 E 31.42776 (Helwan), 6-3-1935; Wadi Gerrawi N 29.78421 E 31.31595 (Red Sea), 24-3-1935. {35, MAC}.

Tribe Malachiini Fleming, 1821

***Clanoptilus abdominalis abdominalis* (Fabricius, 1798)**

Malachus abdominalis abdominalis, Fabricius, 1798: 71.
Malachus coeruleus Erichson, 1840: 82.
Malachus marginicollis Lucas, 1849: 191.
Malachus hilaris Rosenhauer, 1856: 150.
Malachus semilimbatus Fairmaire, 1862: 550.
Malachus lippus Chevrolat, 1866: 102.
Malachus serricornis Ballion, 1871: 352.
Malachus illus Abeille, 1890: 41.
Clanoptilus mozabitus Pic, 1898: 97.
Clanoptilus subcrucifer Pic, 1904: 90.
Clanoptilus cyrenaicus Pic, 1925: 2.
Malachus bimaculatus Pic, 1951: 4.
Clanoptilus pseudobimaculatus Pic, 1954: 1.

TYPE LOCALITY: South Algeria.

LOCAL DISTRIBUTION: This species is distributed in Coastal Strip.

WORLD DISTRIBUTION: Algeria, Egypt, Libya, Morocco, Syria and Tunis

MATERIAL EXAMINED: Abo mina N 29.43368 E 30.88771 (Mariout, Alex.) 27-3-1925. {4, ALFC}; Mariout N 29.77329 E 31.01192 (Alexandria), 15-3-2008. {2, AUC}; Alexandria N 29.88235 E 31.17794, 22-1-1909. {1, EESC}; Mariout N 29.77329 E 31.01192 (Alexandria.), 9-3-1925; El Borg N 27.23701 E 31.35577 (Mersa Matrouh), 17-3-1927. {15, MAC}.

***Clanoptilus aegyptiacus* Evers, 1985**

Clanoptilus aegyptiacus Evers, 1985: 13.

TYPE LOCALITY: Lower Egypt.

LOCAL DISTRIBUTION: This species is distributed in Lower Nile Valley.

WORLD DISTRIBUTION: Egypt.

***Clanoptilus insignis* (Buquet, 1840)**

Malachus insignis Buquet, 1840: 242.

TYPE LOCALITY: Tenez, Constantine [Algeria].

WORLD DISTRIBUTION: Algeria, Egypt and Tunis.

***Clanoptilus sexplagiatus* (Abeille, 1882)**

Malachus sexplagiatus Abeille, 1882: 115.

Malachus fourtaui Pic, 1920: 42.

TYPE LOCALITY: Jérico [Syria].

LOCAL DISTRIBUTION: This species is distributed in Sinai.

WORLD DISTRIBUTION: Egypt and Syria.

MATERIAL EXAMINED: Wadi.Um Mitla N 30.49017 E 33.72486 (Sinai), 22-3 -1937; W. El-Ghedirat N 30.64724 E 34.41211 (Sinai), 13-3-1937. {21, ALFC}; Wadi.Um Mitla N 30.49017 E 33.72486 (Sinai), 20-4 -2009. {2, AUC}; Wadi.Um Mitla N 30.49017 E 33.72486 (Sinai), 12-3 -1937; W. El-Ghedirat N 30.64724 E 34.41211 (Sinai), 13-3-1937. {18, MAC}.

***Malachus alferii* Pic, 1919**

Malachus alferii Pic, 1919: 14.

TYPE LOCALITY: Wadi Gandali [Sinai, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Sinai, Lower Nile Valley and Eastern Desert.

WORLD DISTRIBUTION: Egypt.

MATERIAL EXAMINED: W.Um enab N 25.95171 E 34.3844 (Red Sea), 7-3-1937; Gabal Asfar N 30.2282 E 31.40817 (Cairo), 25-2-1925; Wadi Gandali N 29.90658 E 31.677386 (Red Sea), 21-2-1916. {4, ALFC}; Wadi Gandali N 29.90658 E 31.677386 (Red Sea), 29-3-2009. {2, AUC}; Suez Road N 30.08913 E 32.31858, 5-1928; Wadi Gandali N 29.90658 E 31.677386 (Red Sea), 21-2-1916. {3, EESC}; Wadi Gandali N 29.90658 E 31.677386 (Red Sea), 21-2-1916; Wadi Um Assad N 29.3205 E 34.6691 (Helwan), 7-3-1937. {7, MAC}.

***Malachus coccineus* Waltl, 1838**

Malachus coccineus Waltl, 1838: 455.

Malachus baudueri Pic, 1930: 5.

TYPE LOCALITY: Mediterranean.

LOCAL DISTRIBUTION: This species is distributed in Upper Egypt.

WORLD DISTRIBUTION: Egypt, Lebanon, Palestine, Syria and Turkey.

ECOLOGICAL NOTES: It is common on the flowers, particularly those of euphorbes in the humid lands.

Tribe Troglolini Mulsant & Rey, 1867

***Attalusinus alferii* (Pic, 1909)**

Callotroglops alferii Pic, 1909: 185.

TYPE LOCALITY: Mahmasha [Cairo, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Lower Nile Valley.

WORLD DISTRIBUTION: Egypt.

MATERIAL EXAMINED: Ein Shams N 30.12734 E 31.31712 (Cairo), 3-6-1918; Kalioubiya N 30.17797 E 31.20523, 20-6-1910; Mansouriah N 30.1383 E 31.0712 (Giza), 6-1933. {4, ALFC}; Shoubra N 30.08034 E 31.25528 (Cairo), 15-4-1910; Imbaba N 30.08333 E 31.21667 (Giza), 7-1910; Cairo N 30.05041 E 31.2538, 15-6-1910. {1, EESC}; Ein Shams N 30.12734 E 31.31712 (Cairo), 5-6-1918; Marg N 30.16127 E 31.34882 (Cairo), 11-6-1933; Maadi N 29.960289 E 31.2577285 (Cairo), 26-6-1933; Kirdasa N 30.03226 E 31.10908 (Giza), 9-5-1934; Kirdasa N 30.03226 E 31.10908 (Giza), 9-9-1934. {7, MAC}.

***Brachyattalus anastasei* Pic, 1931**

Callotroglops anastasei Pic, 1931: 135.

TYPE LOCALITY: Wadi Belda [Sinai, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Sinai.

WORLD DISTRIBUTION: Egypt.

***Callotroglops atrithorax* Pic, 1920**

Callotroglops atrithorax Pic, 1920:54.

TYPE LOCALITY: Wadi El Tih [Sinai, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Lower Nile Valley, Eastern Desert and Sinai.

WORLD DISTRIBUTION: Egypt.

MATERIAL EXAMINED: Wadi.Um enab N 25.95171 E 34.3844 (Red Sea), 5-4- 1934; Ogret El Shekh N 29.88784 E 31.3652 (Red Sea), 11-4- 1921; Suez N 29.95773 E 32.56686, 12-4-1925; Wadi Hoff N 29.88784 E 31.3652 (Helwan), 10-3-1935; Wadi.Um enab N 25.95171 E 34.3844 (Red Sea), 24-3-1935. {5, ALFC}; Wadi Um Assad N 29.3205 E 34.6691 (Helwan), 6-4- 1934. {2, EESC}; Wadi Um Assad N 29.3205 E 34.6691 (Helwan), 15-4- 1934; Wadi Ger-rawi N 29.78421 E 31.31595 (Red Sea), 24-3- 1935. {11, MAC}.

***Callotroglops convexicollis* Wittmer, 1935**

Callotroglops Convexicollis Wittmer, 1935: 185.

TYPE LOCALITY: Wadi Hebran [Sinai, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Sinai.

WORLD DISTRIBUTION: Egypt.

***Cephaloncus aegyptiacus* (Abeille, 1900)**

Troglops aegyptiacus Abeille, 1900: 20.

TYPE LOCALITY: Fayoum [Egypt].

LOCAL DISTRIBUTION: This species is distributed in Lower Nile Valley.

WORLD DISTRIBUTION: Egypt.

MATERIAL EXAMINED: Abu Khashab N 28.14156 E 32.8164917 (Red Sea), 30-3-1934. {2, MAC}.

***Cephaloncus bispinus* Wittmer, 1935**

Cephaloncus bispinus Wittmer, 1935: 181.

Cephaloncus interrupta Wittmer, 1935: 181.

Cephaloncus immaculate Wittmer, 1935: 182.

Cephaloncus bimaculata Wittmer, 1935: 182.

TYPE LOCALITY: Wadi Feran, Wadi Hebran [Sinai, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Sinai.

WORLD DISTRIBUTION: Egypt, Israel and Jordan.

***Psiloderes diabolicus* (Abeille, 1885)**

Troglops diabolicus Abeille, 1885: 150.

TYPE LOCALITY: Mersa Matrouh [Egypt].

LOCAL DISTRIBUTION: This species is distributed in Coastal Strip.

WORLD DISTRIBUTION: Algeria, Egypt and Tunis.

***Psiloderes sinaiticus* Wittmer, 1935**

Psiloderes sinaiticus Wittmer, 1935: 182.

TYPE LOCALITY: Wadi El Sheikh [Sinai, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Sinai.

WORLD DISTRIBUTION: Egypt.

***Psiloderes viridiceps* (Pic, 1929)**

Troglops viridiceps Pic, 1929: 108.

TYPE LOCALITY: Wadi-Hoff [Egypt].

LOCAL DISTRIBUTION: This species is distributed in Lower Nile Valley.

WORLD DISTRIBUTION: Egypt.

***Troglops alfierianus* Wittmer, 1934**

Troglops alfierianus Wittmer, 1934: 450.

TYPE LOCALITY: Salloum [Egypt].

LOCAL DISTRIBUTION: This species is distributed in Coastal Strip.

WORLD DISTRIBUTION: Egypt.

***Troglops apterus* Wittmer, 1935**

Troglops apterus Wittmer, 1935: 184.

TYPE LOCALITY: Borg el Arab [Mariout, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Coastal Strip and Eastern Desert.

WORLD DISTRIBUTION: Egypt.

MATERIAL EXAMINED: Wadi. um enab N 25.95171 E 34.3844 (Red Sea), 9-4- 1934. {1, ALFC}; Burg El-Arab N 29.5334 E 30.91193 (Alex), 12-3 – 1936. {1, EESC}; Abu Seir N 29.5334 E 30.91193, (Burg El-Arab, Alex), 18-3- 1935. {7, MAC}.

***Troglops atriceps* Pic, 1917**

Troglops atriceps Pic, 1917: 2.

TYPE LOCALITY: Mersa Matrouh [Egypt].

LOCAL DISTRIBUTION: This species is distributed in Coastal Strip.

WORLD DISTRIBUTION: Algeria and Egypt.

***Troglops orientalis* Abeille, 1881**

Troglops orientalis Abeille, 1881: 121.

Troglops laevissimus Abeille, 1890: 240.

TYPE LOCALITY: Mersa Matrouh [Egypt].

LOCAL DISTRIBUTION: This species is distributed in Coastal Strip.

WORLD DISTRIBUTION: Algeria, Egypt, Palestine, Syria and Turkey.

***Troglops rabinovitchi* Wittmer, 1934**

Troglops rabinovitchi Wittmer, 1934:450.

TYPE LOCALITY: Dabaa [Mariout, Egypt].

LOCAL DISTRIBUTION: This species is distributed in Coastal Strip.

WORLD DISTRIBUTION: Egypt.

Discussion

In Egypt, no work was done on the family, except the work of Alfieri (1976), who monographed the Coleoptera of Egypt, including family Malachiidae. He presented a list of malachiids, including forty-three species within ten genera, with notes on distribution and host plants of some species. Recently and during the present study these species have been exposed to many nomenclatorial changes. Different sources of information indicated that the existence of forty three species belonging to seventeen genera in one subfamily in Egypt within the scope of this work.

Some species dropped from the Catalogue of Palaearctic Coleoptera of Malachiid list according to Dr. Adrien Mayor comment as follows:

1. *Troglops ruficolor* Pic, 1930. Pic lists the type locality as Sudan Egyptian which I suppose means Sudan. Pic lists the locality as Sudan in Coleopterorum Catalogus, and the species is never mentioned by Alfieri. There are no literature records of specific locations, but I would assume in the northern part of Sudan.

2. *Troglops palaestinus* Pic, 1902. In 1924 Pic described the variety *T. palaestinus* var. *robusticeps* and lists the type locality as Egypt, Mokkatam (coll. Alfieri). Alfieri does not mention the name in his catalog, and I know of no other literature records.

3. *Hypebaeus annulifer* Pic, 1902. The type locality is "India: Murree" which today is part of Pakistan, North of Islamabad.

4. *Hypebaeus libanus* Peyron, 1877. Peyron lists the type locality as Lebanon, and Pic lists the locality as Syria in Coleopterorum Catalogus. Wittmer 1935: 252-253 lists a 17 specimens from the Aegean Island of Rodi, Fileremo 27-4-1932. It is possible that the Rodi specimens are a misidentification. At any rate, it was apparently my error to list the species from Egypt as there are no other literature records.

5. *Colotes nigrosignatus* Pic, 1933. wrongly recorded because the type locality from Sudan: Khartoum.

Acknowledgement

I would like to thank Prof. Dr. Adrien Mayor (Great Smoky Mountains National Park, USA) for his comments on the list of species of Egypt to Mr. Abd Allah A. El-Zouk.

References

- ABEILLE DE PERRIN, E. 1885a. Nouveaux documents pour servir à l'histoire des Malachides. *Revue d'Entomologie*, **4**: 4-28.
- ABEILLE DE PERRIN, E. 1885b. Malachides nouveaux. *Revue d'Entomologie*, **4**: 139-153.
- ALFIERI, A. 1920. Contributions à la faune entomologique du Nord-est du Sinai. *Bulletin de la Société Entomologique d'Egypte*, **6**: 40-53.
- ALFIERI, A. 1976. The Coleoptera of Egypt (Monograph). *Mem. Soc. Ent. Egypte*, **5**: 361 pp.
- AREFNIA, A. & S. E. TSHERNYSHEV 2004. First record of *Laius venustus* Erichson, 1840 (Coleoptera, Malachiidae) in Iran. *Euroasian Entomological Journal*, **3**(1): 32.
- BAHILLO DE LA PUEBLA, P. & J.I LOPEZ-COLON 2009. La familia Malachiidae Fleming, 1821 en la comunidad Autónoma Vasca (Coleoptera: Cleroidea). *Heteropterus Rev. Entomol.*, **9**(1): 25-42.
- BOOTH, R. G., M. L. COX & R. B. MADGE 1990. *Guides to insects of Importance to man*. (3) Coleoptera: 71.
- BUCHELOS, C. T. & G T. PAPADOULIS 1994. Occurrence of Malachius sp. (Coleoptera: Malachiidae) larvae in houses in Southern Greece. *Annales-de-l'-Institut-Phytopathologique-Benaki*, **17**: 97-100.
- DIX, M. E. 1990. *Malachius ulkei* Horn (Coleoptera: Malachiidae): an egg predator of *Paleacrita vernata* Peck (Lepidoptera: Geometridae). *Journal of the Kansas Entomological-Society*, **63**(4): 648-652.
- EVERS, A. M. J. 1985. Distribution of the Palaearctic species of the genus complex of *Malachius* F. 54th Contribution to the knowledge of the Malachiidae. *Entomologische-Blatter-fur Biologie-und-Systematik-der-Kafer*, **81**(1/2): 1-40.
- FARROW, R. A. 1974. The larva of *Laius villosus* (Coleoptera: Melyridae) feeding on the egg pods of the Australian plague locust, *Chortoicetes terminifera* (Orthoptera: Acrididae). *Journal of the Australian Entomological Society*, **13**(3): 185-188.

- GREINER, J. 1937. *Coleopterorum Catalogues. Part 159: Malachiidae*. W. Junk and S. Scheukling, Berlin, 1-171.
- JACQUELIN DU VAL, P. N. C. 1849. *Genera des Coleopteres D'Europe*. Manuel Entomologique, 170-180.
- LACORDAIRE, M. TH. 1857. *Genera des Coleopteres. Histoire Naturelle des Insectes*, Paris, 378-398.
- MATTHES, D. 1962. Excitatorien und paarungsverhalten Mitteleuropäischer Malachiiden (Coleoptera, Malachodermata). *Zeitschrift für Morphologie und Ökologie der Tiere*, **51**: 375-546.
- MAYOR, A. J. 2002. American beetles. A text book, published by *Library of Congress Cataloging-in-Publication Data 2*: 281-304.
- MAYOR, A.J. 2007. Pp.: 60-63, 415-454 in: Löbl, I. & Smetana A (Eds). *Catalogue of Palaearctic Coleoptera (Vol. 4) Elateroidea- Derodontoidea- Bostrichoidea- Lymexyloidea- Cleroidea- Cucujoidea*. Apollo Books. Stenstrup, 935 pp.
- MIRUTENKO, V. V. 2010. A review of the beetles of the families Malachiidae and Dasytidae (Insecta: Coleoptera) of the Ukrainian Carpathians and Trans-carpathian Lowland. *Ukrainska entomofaunistyka*, **1**(1): 1-21.
- PEYRON, E. 1877. Étude sur les malachiides d'Europe et du bassin de la Méditerranée. *L'Abeille, Journal d'Entomologie*, **15**: 1-312.
- PEYERIMHOFF, P. 1929. Nouveaux coléoptères du Nord-Africain. Soixante-sixième note. Fauna du Hoggar et des massifs voisins. *Bulletin de la Société Entomologique de France*, 107-111.
- PIC, M. 1911. Coléoptères égyptiens nouveaux ou plus ou moins rares. *Bulletin de la Société Entomologique d'Égypte*, **4**: 71-76.
- PIC, M. 1919a. Notes diverses, descriptions et diagnoses (Suite). *L'Échange, Revue Linnéenne*, **35**: 13-15.
- PIC, M. 1919b. Sur divers coléoptères d'Égypte et Sinai en partie nouveaux. *Bulletin de la Société Entomologique de d'Égypte*, **6**: 44-56.
- PIC, M. 1921a. Nouveaux coléoptères. *Bulletin de la Société Entomologique d'Égypte*, **6**: 54-55.
- PIC, M. 1921b. Notes diverses, description et diagnoses. *L'Échange, Revue Linnéenne*, **37**: 13-15.
- PIC, M. 1929. Coléoptères d'Égypte et Sinai. *Bulletin de la Société Royale Entomologique d'Égypte*, 108-110.
- PIC, M. 1931a. Malacodermes exotiques. *L'Échange, Revue Linnéenne*, **47**: 93-96, 97-100, 101-104.
- PIC, M. 1931b. Coléoptères intéressants ou nouveaux d'Égypte et du Sinai. *Bulletin de la Société Royale Entomologique d'Égypte*, **15**: 134-136.
- PLATA-NEGRACHE, P. 2010. Estudio de la familia Malachiidae Fleming, 1821 (Coleoptera: Cleroidea) en la Comunidad Autónoma de Galicia (N.W. de la Península Ibérica). *Archivos Entomológicos*, **3**: 3-80.
- PORTEVIN, G. 1931. Histoire naturelle des Coleopteres de France. *Encyclopedie Entomologique*, **8**: 426-442.
- SHALABY, F. M. 1958. Alphabetical list of the Egyptian insects in the collection of the Ministry of Agriculture. *Min. Agr. Tech. Bull.*, Na. **289**.
- SHCHUROVENKOV, B. G. 1977. The blue lema, the wheat thrips and their natural enemies. *Zashchita-Rastenii*, (**10**): 44-45.
- SHUROVENKOV, B. G. 1980. The biology and importance of malachiid beetles (Coleoptera, Melyridae) as entomophages in the fields of the Kursk district. *Entomologicheskoe-Obozrenie*, **59**(3): 535-543.
- SVIHLA, V. 1980. New species of Malachiinae (Coleoptera, Melyridae) from Soviet Central Asia. *Acta Entomologica Bohemoslovaca*, **77**: 394-399.
- SVIHLA, V. 1990. Revision of *Ebaeus flavicornis* species-group in Central Europe (Coleoptera, Malachiidae) *Acta Entomologica Bohemoslovaca*, **87**: 355-359.
- SVIHLA, V. & J. HAJEK 2009. Taxonomic changes in Eastern Mediterranean *Malachius* (Coleoptera: Malachiidae). *Acta Entomologica Musei Nationalis Pragae*, **49**(1): 217-224.
- VOICU, M. C. 1991. Present situation with regard to investigations on malachiids (Coleoptera: Malachiidae) and the necessity of knowing about them in Romania. *Cercetari-Agronomice-in-Moldova*, **24**(1-2): 152.
- WITTMER, W. 1934. Résultats scientifiques des expéditions entomologiques de S. A. le Prince Alexandre C. della Torre e Tasso en Égypte et au Sinai. VI. Malachodermata (Coleoptera). *Bulletin de la Société Royale Entomologique d'Égypte*, **18**: 449-455.
- WITTMER, W. 1935. Wissenschaftliche Ergebnisse der entomologischen Expeditionen seiner Durchlaucht des Fürsten Alessander C. della Torre e Tasso nach Aegypten und der Sinaihaibinsel. VII. Malacodermata (Coleoptera). (5. Beitrag zur Kenntnis der palaearktischen Malacodermata). *Eos, revista española de Entomologia*, **11**: 181-189.
- WITTMER, W. 1936. Zur kenntnis der Malacodermata Aegyptens (8 Beitrag zur Kenntnis der palaearktischen Malacodermata) (Coleoptera – Malachiidae). *Bulletin de la Société Royale Entomologique d'Égypte*, **29**: 152-154.
- WITTMER, W. 1937. Zur Kenntnis der Malacodermata Aegyptens (9. Beitrag zur Kenntnis der palaearktischen Malacodermata). *Bulletin de Société Royale Entomologique d'Égypte*, **30**: 167-170.
- WITTMER, W. 1979. Insects of Saudi Arabia: Coleoptera: Fam. Malachiidae, Dasytidae, Karumiidae. *Fauna-of-Saudi-Arabia*, **1**: 186-192.
- WITTMER, W. 1989. 42nd Contribution to the knowledge of the Indomalayan Cantharidae and Malachiidae (Coleoptera). *Entomologica-Basiliensia*, **13**: 207-237.
- WITTMER, W. 1995a. To the knowledge of the Malachiidae (Coleoptera) of Papua New Guinea (1st contribution). *Entomologica-Basiliensia*, **18**: 393-412.
- WITTMER, W. 1995b. To the knowledge of the family Malachiidae (Coleoptera) 2nd contribution. *Entomologica, Basiliensia*, **18**: 287-391.



