



### Revision of family Noctuidae (4)

### Subfamilies “Bryophilinae, Condicinae, Cuculliinae, Eriopinae and Eustrotiinae” of Egypt (Lepidoptera, Noctuidae)

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#### ABSTRACT

This is the last paper on the revision of Noctuidae in Egypt, we revised 11 subfamilies (from total 16 subfamilies). In this study, we are exposed to revise the last five subfamilies which are Bryophilinae, Condicinae, Cuculliinae, Eriopinae, and Eustrotiinae. These subfamilies contain 40 species under 10 genera. Subfamily Eustrotiinae Grote, 1882 is the largest subfamily (in this study) with 11 species and 3 genera, followed by Subfamily Bryophilinae Guenée, 1852 with 11 species under one genera while Subfamily Eriopinae Herrich-Schäffer, [1851] is the smallest subfamily containing two species under one genus.

We added three Annexes, one for the recent situation of Family Noctuidae; 2<sup>nd</sup> a list of noctuid types in Egypt and the 3<sup>rd</sup> is the complete recent list of family Noctuidae in Egypt.

#### INTRODUCTION

This is the last paper in the series revision of the Noctuidae of Egypt (4<sup>th</sup> paper). During this study, we revised the last 5 subfamilies (Bryophilinae, Condicinae, Cuculliinae, Eriopinae, and Eustrotiinae).

Based on material from the main reference collections in Egypt, light traps collections, National museums, and other references, 40 species in the 5 subfamilies (Bryophilinae, Condicinae, Cuculliinae, Eriopinae, and Eustrotiinae) under 10 genera were listed. Some further taxonomic changed re-proposed. Taxonomic position, synonyms, and types are included and photographs for available species are provided.

Bryophilinae is a big subfamily with about 200 species worldwide (Speidel *et al.*, 1996a); most species are small, and their larvae feed on lichens and rest well concealed in holes and crevices during the daytime, feeding at night, with their food becoming softened by nocturnal humidity. The larvae pupate in a spun cocoon in the shelter of holes and ledges. The coloration of larvae is non-protective, but that of the adult remarkably matches the different hues of the lichen-covered surface on which they rest (Seitz, 1914).

Genus *Cryphia* was the only genus recorded in Egypt with 11 species.

Condicinae was once included in the polyphyletic Amphipyrinae. In Europe, they are represented by four genera: *Condica* Walker, 1856, *Hadjina* Staudinger, 1892, *Acosmetia*

Stephens, 1829 and *Eucarta* Lederer, 1857 (Fibiger & Hacker, 2005). So far, 6 species belonging to 2 genera under one tribe have been recorded in Egypt

*Cuculliinae* is a large and phylogenetically compact subfamily with more than 200 species worldwide (Speidel *et al.*, 1996a). Most species are xerophilous, inhabiting steppes, eremic areas and/or xeromontane habitats (Ronkay & Ronkay 1994, 1995). They are usually quite attracted to ultraviolet light, but often not before midnight.

Ten species belonging to 3 genera under one tribe were recorded in Egypt  
*Eriopinae* was previously either placed in *Amphipyrinae*, *Hadeninae*, or its own subfamily *Eriopinae*. Due to the complicated taxonomic histories of all the trifine groups of the Noctuidae sensu lato during the last decades, and the varying intensities of the evidence used for inferring the phylogenetic relationships, no consensus about the systematic position of the *Eriopinae* has ever been reached.

So far, 2 species have been recorded in Egypt belonging to one genera.  
*Eustrotiinae* were often included in the *Acontiinae*, but interpreted by Fibiger & Lafontaine (2005) as an independent subfamily. The systematic scope is very uncertain. The genus-group of *Eublemma* is included in the database "Butterflies and Moths of the World - Generic Names and their Type-species" of the Natural History Museum London. This group is described by Kravchenko *et al.* (2007) considered as a separate subfamily *Eublemminae*. The *Eustrotiinae* are probably paraphyletic.

Up to date, 11 species were recorded in Egypt under 3 genera.

## MATERIALS AND METHODS

The present work based upon:

- \* The main five reference insect collections in Egypt: Collection of Ministry of Agriculture, Plant Protection Research Institute (PPRI); Collection of Faculty of Science, Cairo University (CUC); Collection of Faculty of Science, Ein Shams University (ESUC); Collection of El Alfieri, Al Azhar University, Faculty of Agriculture (ALUC) and Collection of Egyptian Entomological Society (EESC).
- \* The published papers and Thesis in Egypt.
- \* Data from the Collections of International Museums (BMNH, London; USNM, Smithsonian, USA; ZI, Leningrad; MNHU, Berlin; MNHN, Paris, ...etc.)
- \* Main monographs of Lepidoptera in the world

Recent taxonomic position, senior synonyms, types, and host records together with local and world distribution for each species are presented. Photos for all species are also provided (as possible). Tribes, genera, and species are alphabetically arranged.

## ACRONYMY

**BMNH:** The Natural History Museum, London, United Kingdom

**HNHM:** Hungarian Natural History Museum, Budapest, Hungary

**LNU:** Landessammlungen für Naturkunde, Karlsruhe, Germany

**LS:** Linnean Society, London, United Kingdom

**MNGH:** National Museum of Natural History Grigore Antipa, Bucharest, Romania

**MNHN:** Muséum National d'Histoire Naturelle, Paris, France

**MNHU:** Museum für Naturkunde der Humboldt Universität, Berlin, Germany

**NHMW:** Naturhistorisches Museum Wien, Vienna, Austria

**NHRM:** Naturhistoriska Riksmuseet, Stockholm, Sweden

**NM:** National Museum in Prague

**USNM:** National Museum of Natural History, Smithsonian Institution, Washington, U.S.A.

**ZI:** Zoological Institute, Academy of Sciences, Leningrad, Russia

**ZSM:** Zoologische Staatssammlung, Münchenhausenstr. Munich, Germany

**ZMHB:** Zoologisches Institut und Museum, Universität Hamburg, Germany.

**ZMUC:** Zoologisk Museum, Universitetsparken, Copenhagen, Denmark

## RESULTS AND DISCUSSION

The revision of the last list of Noctouidea in Egypt (Amer & El-Torkey, 2017); indicate that there are few changes:

- \* *Prospalta coptica* Wiltshire, 1948 is a synonymy to *Condica pauperata* (Walker, 1858) (Condicinae)
- \* Both *Cucullia syrtana* (Mabille, 1888) and *Cucullia verbasci* Linnaeus, 1758 transfer to genus *Shargacucullia* (Cuculliinae)
- \* We recorded 11 types (or type synonymy) from Egypt as follows:

### Subfamily Bryophilinae Guenée, 1852

- \* *Cryphia minima* Waltshire, 1949 from Wadi Hoff (Cairo, Lower Egypt)
- \* *Cryphia pallida* (Bethune-Baker, 1894) from Alexandria (Coastal Strip); (Type: BMNH)

### Subfamily Condicinae Poole, 1995

- \* *Acosmetia arida* Joannis, 1909 from Mokattam (Cairo, Lower Egypt); (Type: MNHN)
- \* *Condica pauperata* (Walker, 1858) as *Prospalta coptica* Wiltshire, 1948 (Marsa Halaib, Gebel Elba)

### Subfamily Cuculliinae Herrich-Schäffer, [1850]

- \* *Cucullia hemidiaphana* Graeser, 1892 as *Cucullia efflatouni* Wiltshire, 1948 from Wadi el Lega, Um Arab, Farsh el Arab (Sinai); (Type: Alfieri Collection, Destroyed); (Paratype: BMNH)
- \* *Cucullia macara* Rebel, 1947 from Wadi Cansisrob (Gebel Elba); (Syntype: NHMW)

### Subfamily Eustrotiinae Grote, 1882

- \* *Eulocastra alfierii* (Wiltshire, 1948) from Bir Isla, Wadi Isla, Karm Alam, (Sinai); (Holotype: USNM)
- \* *Ozarba capreolana* Rebel, 1947 from Mersa Halaib (Gebel Elba)
- \* *Ozarba fuscescens* Rebel, 1947 from Wadi Eideb (Gebel Elba)
- \* *Ozarba socotrana* Hampson, 1910 as *Ozarba cervina* Rebel, 1948 from Wadi Eideb (Gebel Elba)
- \* *Ozarba variabilis* Berio, 1940 as *Ozarba elephina* Rebel, 1948 from Wadi Eideb (Gebel Elba)

There are 3 species recorded only from Egypt: *Acosmetia arida* Joannis, 1909 (Condicinae); *Ozarba capreolana* Rebel, 1947 (Eustrotiinae) and *Ozarba fuscescens* Rebel, 1947 (Eustrotiinae)

### List of subfamilies, genera and species:

#### Subfamily: Bryophilinae Guenée, 1852

##### 1. *Cryphia* Hübner, 1818

1. *Cryphia algae* (Fabricius, 1775)
2. *Cryphia amasina* (Drandt, 1931)
3. *Cryphia fraudatricula* (Hübner, 1803)
4. *Cryphia maeonis* (Lederer, 1865)
5. *Cryphia minima* Waltshire, 1949
6. *Cryphia pallida* (Bethune-Baker, 1894)
7. *Cryphia paulina* (Staudinger, 1892)
8. *Cryphia petrea* (Guenée, 1852)
9. *Cryphia raptricula* (Denis & Schiffermüller, 1775)
10. *Cryphia receptricula* (Hübner, 1803)
11. *Cryphia vandalusiae* (Duponchel, 1842)

**Subfamily: Condicinae Poole, 1995****Tribe: Condicini Poole, 1995****2. *Acosmetia* Stephens, 1829**12. *Acosmetia arida* Joannis, 1909**3. *Condica* Walker, 1856**13. *Condica capensis* (Guenée, 1852)14. *Condica conducta* (Walker, 1857)15. *Condica palaestinensis* (Staudinger, 1895)16. *Condica pauperata* (Walker, 1858)17. *Condica viscosa* (Freyer, 1831)**Subfamily Cuculliinae Herrich-Schäffer, [1850]****Tribe Cucullini Ronkay & Gyulai, 2011****4. *Cucullia* Schrank, 1802**18. *Cucullia calendula* Treitschke, 183519. *Cucullia chamomillae* (Denis & Schiffmüller, 1775)20. *Cucullia hemidiaphana* Graeser, 189221. *Cucullia macara* Rebel, 194722. *Cucullia melanoglossa* (Berio, 1934)23. *Cucullia santolinae* Rambur, 183424. *Cucullia syrtana* (Mabille, 1888)**5. *Shargacucullia* Ronkay & Ronkay, 1992**25. *Shargacucullia strigicosta* (Boursin, 1940)26. *Shargacucullia verbasci* Linnaeus, 1758**6. *Metlaouia* Dumont, 1929**27. *Metlaouia autumna* (Chrétien, 1910)**Subfamily Eriopinae Herrich-Schäffer, [1851]****7. *Callopistria* Hubner, [1821]**28. *Callopistria latreillei* (Duponchel, 1827)29. *Callopistria yerburii* (Butler, 1884)**Subfamily Eustrotiinae Grote, 1882****8. *Eulocasta* Butler, 1886**30. *Eulocasta alfierii* (Wiltshire, 1948)31. *Eulocasta diaphora* (Staudinger, 1878)32. *Eulocasta platizona* (Lederer, 1869)33. *Eulocasta rex* (Wiltshire, 1948)34. *Eulocasta tamsina* Brandt, 1947**8. *Ozarba* Walker, 1865**35. *Ozarba capreolana* Rebel, 194736. *Ozarba fuscescens* Rebel, 194737. *Ozarba scotiana* Berio, 194038. *Ozarba variabilis* Berio, 1940**9. *Pseudozarba* Warren, 1913**39. *Pseudozarba bipartita* (Herrich-Schäffer, 1850)40. *Pseudozarba menozena* (Hampson, 1910)**Subfamily: Bryophilinae Guenée, 1852 (Plate I)**

Bryophilinae is a big subfamily with about 200 species worldwide (Speidel *et al.*, 1996a); most species are small, and their larvae feed on lichens and rest well concealed in holes and crevices during the daytime, feeding at night, with their food becoming softened by nocturnal humidity. The larvae pupate in a spun cocoon in the shelter of holes and ledges.

The coloration of larvae is non-protective, but that of the adult remarkably matches the different hues of the lichen-covered surface on which they rest (Seitz, 1914).

Genus *Cryphia* was the only genus recorded in Egypt with 11 species, two of them (*Cryphia minima* Waltshire, 1949 and *Cryphia pallida* (Bethune-Baker, 1894) are Egyptian types. *Cryphia minima* Waltshire, 1949 recorded only in Egypt.

### **Subfamily Bryophilinae Guenée, 1852**

#### **1. *Cryphia* Hübner, 1818**

1. *Cryphia algae* (Fabricius, 1775)
2. *Cryphia amasina* (Drandt, 1931)
3. *Cryphia fraudatricula* (Hübner, 1803)
4. *Cryphia maeonis* (Lederer, 1865)
5. *Cryphia minima* Waltshire, 1949
6. *Cryphia pallida* (Bethune-Baker, 1894)
7. *Cryphia paulina* (Staudinger, 1892)
8. *Cryphia petrea* (Guenée, 1852)
9. *Cryphia raptricula* (Denis & Schiffermüller, 1775)
10. *Cryphia receptricula* (Hübner, 1803)
11. *Cryphia vandalusiae* (Duponchel, 1842)

#### **1. *Cryphia* Hübner, 1818**

##### **1. *Cryphia algae* (Fabricius, 1775)**

*Noctua spoliaticula* (Denis & Schiffermüller, 1775)

*Noctua degener* (Denis & Schiffermüller, 1775)

*Phalaena Noctua chloris* (Borkhausen, 1792)

*Noctua algae* (FABRICIUS, 1775)

*Phalaena algae* (FABRICIUS, 1775)

*Bryophila algae* (FABRICIUS, 1775)

*Metachrostis algae* (FABRICIUS, 1775)

*Euthales algae* (FABRICIUS, 1775)

*Phalaena Noctua calligrapha* (BORKHAUSEN, 1792)

*Noctua mendacula* (HÜBNER, 1813)

**Common name:** Tree-lichen Beauty

**Wingspan:** 24-30 mm

**Host records:** Tree lichen

**Geographical Records:** Albania, Algeria, Armenia, Austria, Belgium, Bulgaria, Corsica, Cyprus, Czech Republic, Denmark, England, Finland, France, Germany, Greece, Hungary, Iran, Iraq, Israel, Italy, Libya, Lithuania, Malta, Morocco, Netherlands, Palestine, Poland, Portugal, Romania, Russia, Sardinia, Sicily, Slovakia, Spain, Sweden, Switzerland, Tunisia, Turkey, Ukraine, Yugoslavia

**Distribution in Egypt:** Coastal Stripe

**Type Locality:** Germany

**Type specimen:**

**Type:** Germany

#### **2. *Cryphia amasina* (Drandt, 1931)**

*Bryophila muralis* ssp. *amasina* Draudt, 1931

**Common name:** Unknown

**Wingspan:** 26-29mm

**Host records:** Lichens

**Geographical Records:** Albania, Bulgaria, Croatia, Greece, Jordan, Israel, Lebanon, Romania, Saudi Arabia, Turkmenistan, Turkey, Yemen

**Distribution in Egypt:** Alexandria, Mariout (Coastal Stripe)

**Type Locality:** Turkey, Amasia

**Type specimen:**

**Syntype:** Turkey, Amasia

**3. *Cryphia fraudatricula* (Hübner, 1803)**

*Noctua fraudatricula* Hübner, [1803]

**Common name:** Unknown

**Wingspan:** about 32 mm.

**Host records:** Lichens

**Geographical Records:** Albania, Austria, Bulgaria, Czech Republic, Finland, France, Germany, Greece, Hungary, Italy, Japan, Lithuania, Poland, Romania, Russia, Slovakia, Spain, Switzerland, Ukraine, Yugoslavia

**Distribution in Egypt:** Coastal Stripe

**Type Locality:** Europa

**Type specimen:**

**Type:** Europe

**4. *Cryphia maeonis* (Lederer, 1865)**

*Cryphia praecana* Christoph, 1893

*Cryphia rubellina* Staudinger, 1900

*Metachrostis sabulosa* (Warren, 1909)

*Bryophila rubrolineata* (Osthelder, 1933)

*Criphia sabulicolor* (deLattin, 1950)

**Common name:** Unknown

**Wingspan:** 29-34 mm

**Host records:** Lichens

**Geographical Records:** Afghanistan, Armenia, Cyprus, Greece, Iran, Iraq, Israel, Jordan, Palestine, Syria, Turkey, Turkmenistan

**Distribution in Egypt:** Eastern desert

**Type locality:** Turkey, Anatolia

**Type specimens:**

**Syntype:** MNHU, Berlin

**5. *Cryphia minima* Waltshire, 1949**

*Bryoleuca minima* (Wiltshire, 1949)

**Common name:** Unknown

**Wingspan:** 21-25mm.

**Host records:** Lichens

**Geographical Records:** Israel, Palestine, Saudi Arabia

**Distribution in Egypt:** Lower Egypt (Wadi Hoff).

**Type Locality:** Egypt, Cairo (Wadi Hoff, Ougret El-Sheikh)

**6. *Cryphia pallida* (Bethune-Baker, 1894)**

**Common name:** Unknown

**Wingspan:** 19- 22 mm

**Host records:** Lichens

**Geographical Records:** Algeria, France, Italy, Malta, Morocco, Portugal, Sardinia, Spain

**Distribution in Egypt:** Coastal Stripe (Alexandria, Mariout).

**Type locality:** Egypt, Alexandria

**Type specimens:**

**Type:** BMNH, London

**7. *Cryphia Paulina* (Staudinger, 1891)**

*Caradrina keltana* Amsel. 1935

*Cryphia paulina* subsp. *fuscirena* Wiltshire, 1980

*Cryphia paulina* subsp. *mizbilensis* Wiltshire, 1980

**Common name:** Unknown

**Wingspan:** 19- 22 mm

**Host records:** Lichens

**Geographical Records:** Israel, Jordan, Palestine, Saudi Arabia

**Distribution in Egypt:** Sinai

**Type locality:** Palestine/Israel, near Jerusalem

**Type specimens:**

**Syntype:** MNHU (ZMHB), Berlin

#### 8. *Cryphia petrea* (Guenée, 1852)

*Bryophila ramosana* (Draudt, 1931)

*Bryophila transversa* (Draudt, 1931)

**Common name:**

**Wingspan:** 26-30 mm

**Host records:** Lichens

**Geographical Records:** Crete, Croatia, Cyprus, France, Greece, Israel, Lebanon, Morocco, Palestine, Portugal, Sicily, Spain, Turkey

**Distribution in Egypt:** Eastern desert

**Type locality:** Spain, Andalusia

#### 9. *Cryphia raptricula* (Denis & Schiffermüller, 1775)

*Noctua raptricula* Denis & Schiffermüller, 1775

*Phalaena divisa* Esper, 1791

*Phalaena palliola* Borkhausen, 1792

*Phalaena pomula* Borkhausen, 1792

*Noctua deceptricula* Hübner, [1803]

*Bryophila carbonis* Freyer, 1849

*Bryophila oxybiensis* Millière, 1875

*Bryophila raptriculoides* Turati, 1912

*Catamecia bryophiloides* Rothschild, 1914

*Bryophila dolopis* f. *pallidior* Draudt, 1931

*Bryophila dolopis* f. *striata* Draudt, 1931

**Common name: Marbled Grey**

**Wingspan:** 27-35 mm

**Host records:** Lichens, *Parmelia centrifuga*, *P. saxatilis*.

**Geographical Records:** Afghanistan, Algeria, Armenia, Ashkhabad, Austria, China, England, France, Germany, Hungary, Iran, Iraq, Israel, Italy, Korea, Lebanon, Malta, Morocco, Portugal, Sardinia, Spain, Syria, Ukraine, USSR

**Distribution in Egypt:** Coastal Stripe (Kingi Mariout)

**Type locality:** Austria, Vienna

**Type specimens:**

**Type:** Destroyed

#### 10. *Cryphia receptricula* (Hübner, 1803)

*Noctua strigula* (Borkhausen, 1792)

*Bryophila stictica* (Ménétriés, 1859)

**Common name: Unknown**

**Wingspan:** 20-24 mm

**Host records:** Lichens, *Parmelia centrifuga*, *P. saxatilis*.

**Geographical Records:** Armenia, Austria, Bulgaria, Czech Republic, Cyprus, Greece, Germany, Hungary, Italy, Iran, Palestine, Poland, Romania, Russia, Sicily, Slovakia, Switzerland, Syria, Turkey, Ukraine, Yugoslavia

**Distribution in Egypt:** Coastal Stripe

**Type locality:** Europe

**11. *Cryphia vandalusiae* (Duponchel, 1842)**

*Miana trilinea* Bethune-Baker, 1894; Type: **Egypt**, Alexandria

*Bryophila vandalusiae* Duponchel, 1842

*Cryphia trilinea* Bethune-Baker, 1894

*Metachrostis syrticiola* Turati, 1924

*Cryphia rectilinea auberti* Boursin, 1952

*Bryoleuca trilinea* Hampson, 1908

**Common name:** Unknown

**Wingspan:** 20-23 mm

**Host records:** Lichens

**Geographical Records:** Corsica, France, Libya, Morocco, Portugal, Italy, Sardinia, Spain

**Distribution in Egypt:** Coastal Stripe (Alex.).

**Type locality:** Spain, Andalusia

**Type specimens:**

**Type:** Spain, Andalusia

**Subfamily: Condicinae Poole, 1995 (Plate I)**

The subfamily Condicinae was once included in the polyphyletic Amphipyrinae. In Egypt, they are represented by two genera: *Condica* Walker, 1856, and, *Acosmetia* Stephens, 1829. So far, 6 species belonging to 2 genera under one tribe have been recorded in Egypt. There are 2 types from Egypt, one of them is recorded only in Egypt from Al-Mokattam (Near Cairo, Lower Egypt).

**Subfamily: Condicinae Poole, 1995**

**Tribe: Condicinae**

**1. *Acosmetia* Stephens, 1829**

1. *Acosmetia arida* Joannis, 1909

**2. *Condica* Walker, 1856**

2. *Condica capensis* (Guenée, 1852)

3. *Condica conducta* (Walker, 1857)

4. *Condica palaestinensis* (Staudinger, 1895)

5. *Condica pauperata* (Walker, 1858)

6. *Condica viscosa* (Freyer, 1831)

**Tribe: Condicinae Poole, 1995**

**1. *Acosmetia* Stephens, 1829**

**1. *Acosmetia arida* Joannis, 1909**

**Common name:** Unknown

**Wingspan:** about 18 mm.

**Host records:** Grasses

**Geographical Records:** Not recorded

**Distribution in Egypt:** Lower Egypt (Cairo, Mokattam)

**Type locality:** Egypt (Cairo, Mokattam)

**Type specimens:**

**Syntype:** 2 Females (MNHN, Paris)

**2. *Condica* Walker, 1856**

**1. *Condica capensis* (Guenée, 1852)**

*Prospalta capensis* Guenée, 1852

*Condica afra* (Guenée, 1852)

*Condica prodita* Walker, 1862

*Condica inexacta* Walker, 1862

*Condica canorufa* Walker, 1865

*Condica leonina* Walker, 1865

*Apamea capensis* Guenée, 1852

**Common name:** Unknown

**Wingspan:** 27-34 mm

**Host records:** Grasses, oilseed crops (*Guizatia* sp.) *Ageratum*, *Bidens pilosa*, *Calendula*,

*Cinerana*, *Coreopsis*, *Cynara*, *Macadamia*

**Geographical Records:** Australia, Cape Verde, China, Comoros, DRCongo, England, Equatorial Guinea, Eritrea, Ethiopia, Ghana, India, Indonesia, Israel, Jordan, Kenya, Madagascar, Malawi, Mauritania, Morocco, Oman, Pakistan, Palestine, São Tomé & Príncipe, Saudi Arabia, Seychelles, Spain, Somalia, South Africa, UA Emirates, Yemen, Zambia

**Distribution in Egypt:** Coastal Stripe, Lower Egypt

**Type Locality:** South Africa, Western Cap

**Type specimens:**

**Holotype:** Male, MNHN (Lost)

#### 2. *Condica conducta* (Walker, 1857)

*Caradrina conducta* Walker, 1857

*Perigea inexacta* Walker, 1865

*Condica decolorata* (Guenée, 1862)

*Perigea conducta* (Walker, 1856)

*Platysenta conducta* (Walker, 1856)

**Common name:** Unknown

**Wingspan:** about 30 mm

**Host records:** *Senecio* sp., Asteraceae

**Geographical Records:** Cape Verde, Comoros, Congo, Djibouti, Equatorial Guinea, Fiji, Hong Kong, India, Kenya, Madagascar, Malawi, Mauritania, Mauritius, Reunion, Seychelles, South Africa, Saudi Arabia, Yemen

**Distribution in Egypt:** Coastal Stripe

**Type Locality:** DRC (Democratic Republic of Congo) as *Condica conducta*

**Type specimens:**

**Lecotype:** Male (BMNH, London)

**Paralectotype:** 5 (Male & Female) (BMNH, London)

#### 3. *Condica Palaestinensis* (Staudinger, 1895)

*Hadjina palaestinensis* Staudinger, 1895

**Common name:** Unknown

**Wingspan:** 33 - 36 mm

**Host records:** Grasses, *Pluchea dioscorides*

**Geographical Records:** Iran, Iraq, Israel, Pakistan, Palestine, Syria, Yemen

**Distribution in Egypt:** Sinai

**Type Locality:** Palestine/Israel, Jerusalem

**Type specimens:**

**Lecotype:** female (ZMHB)

#### 4. *Condica pauperata* (Walker, 1858)

*Prospalta coptica* Wiltshire, 1948

*Hadena pauperata* Walker, 1858

**Common name:** Unknown

**Wingspan:** 33 - 36 mm

**Host records:** Asteraceae; (Grasses, *Pluchea dioscorides*; *Bidens pilosa*); Apiaceae

(*Caropsis* sp.)

**Geographical Records:** Cape Verde, Comoros, DR Congo, Madagascar, Mauritius, Reunion, Saudi Arabia, Seychelles, Sierra Leone, South Africa, São Tomé & Príncipe, Uganda, Yemen

**Distribution in Egypt:** Gebel Elba, Fayoum, Sinai, Western Desert

**Type Locality:** South Africa, KwaZulu-Natal, Port Natal [Durban], as *Condica pauperata*

Egypt, Marsa Halaib, Gebel Elba, as *Prospalta optica*

**Type specimens**

**Holotype:** Male (BMNH, London) as *Condica pauperata*

#### 5. *Condica viscosa* (Freyer, 1831)

*Hadjena viscosa* Freyer, 1831

*Hadjina indelicata* Turati, 1934

*Condica europaea* Parenzan, 1980

*Mythimna viscosa* Freyer, 1831

**Common name:** Unknown

**Wingspan:** 25-29 mm

**Host records:** *Inula viscosa* (Asteraceae)

**Geographical Records:** Albania, Algeria, Bulgaria, Crete, Croatia, Cyprus, Greece, Iran, Iraq, Israel, Italy, Jordan, Lebanon, Libya, Mauritania, Morocco, Oman, Portugal, Saudi Arabia, Sicily, Spain, Syria, Turkey, United Arab Emirates, Yemen

**Distribution in Egypt:** Sinai

**Type Locality:** Italy (Sicily)

### Subfamily Cuculliinae Herrich-Schäffer, [1850] (Plate II)

Cuculliinae is a large and phylogenetically compact subfamily with more than 200 species worldwide (Speidel *et al.*, 1996a). Most species are *xerophilous*, inhabiting steppes, eremic areas and/or *xeromontane* habitats (Ronkay & Ronkay 1994, 1995). They are usually quite attracted to ultraviolet light, but often not before midnight.

Genus *Cucullia* Schrank, 1802 is comprised of some extremely similar species and so correct identification can sometimes be difficult. The Palearctic region contains more than 130 species (Ronkay & Ronkay, 1994). Three different species-groups are clearly distinguished based on the selection of larval food-plants, on the female genitalia and on the appearance of the moths. These species-groups are either elevated to the status of separate genera (Ronkay & Ronkay, 1994) or retained as valid subgenera (Fibiger & Hacker, 2005). The larvae mainly feed on Asteraceae (Compositae) and Lamiaceae (Labiatae) (Ronkay & Ronkay, 1994). 9 species belonging to 3 genera under one tribe were recorded in Egypt. Two types from Egypt, *Cucullia hemidiaphana* Graeser, 1892 type as (*Cucullia efflatouni* Wiltshire, 1948) and *Cucullia macara* Rebel, 1947.

### Subfamily Cuculliinae Herrich-Schäffer, [1850]

#### Tribe Cucullini Ronkay & Gyulai, 2011

##### 1. *Cucullia* Schrank, 1802

1. *Cucullia calendulae* Treitschke, 1835
2. *Cucullia chamomillae* (Denis & Schiffermüller, 1775)
3. *Cucullia hemidiaphana* Graeser, 1892
4. *Cucullia macara* Rebel, 1947
5. *Cucullia melanoglossa* (Berio, 1934)
6. *Cucullia santolinae* Rambur, 1834
7. *Cucullia syrtana* (Mabille, 1888)

##### 2. *Shargacucullia* Ronkay & Ronkay, 1992

8. *Shargacucullia strigicosta* (Boursin, 1940)

9. *Shargacucullia verbasci* Linnaeus, 1758

**3. *Metlaouia* Dumont, 1929**

10. *Metlaouia autumna* (Chrétien, 1910)

**Tribe: Cucullini**

**1. *Cucullia* Schrank, 1802**

**1. *Cucullia calendulae* Treitschke, 1835**

*Cucullia wredowi* Costa, 1836 (Type; Italy)

*Cucullia wredowi judaeorum* Wiltshire, 1948

*Cucullia dellabrunai* Berio, 1980 (Holotype; Italy)

*Cucullia leucanthemi* Rambur, 1858 (Type; Spain)

*Cucullia hermiguae* Pinker & Bacallado, 1979

**Common name:** Unknown

**Wingspan:** 40 - 46 mm.

**Host records:** The larvae feed on Asteraceae, *Chrysanthemum coronarium*, (*Glebionis coronaria*), *Calendula*, *Ormenis*, *Achillea*, *Anthemis*

**Geographical Records:** Afghanistan, Albania, Algeria, Croatia, Cyprus, England, France, Greece, Iran, Iraq, Israel, Italy, Jordan, Lebanon, Libya, Malta, Morocco, Palestine, Portugal, Saudi Arabia, Sicily, Spain, Syria, Tunisia, Turkey, Turkmenistan

**Distribution in Egypt:** Sinai

**Type locality:** Italy, Sicily

**Type Specimens:**

**Lecotype:** HNHM, Budapest

**2. *Cucullia chamomillae* (Denis & Schiffemüller, 1775)**

*Noctua chamomillae* Denis & Schiffemüller, 1775

*Noctua fissina* Haworth, 1809

*Noctua chrysanthemi* Hübner, [1822]

*Cucullia residua* Berio, 1992

**Common name:** Chamomile Shark, Chamomile monk

**Wingspan:** 43-50 mm

**Host records:** Various Compositae, *Chamaemelum*, *Achillea*, *Anthemis*, *Artemisia*, *Chrysanthemum*, *Matricaria*

**Geographical Records:** Algeria, Austria, Belgium, Crete, Croatia, Czech Republic, Denmark, England, France, Germany, Greece, Hungary, Israel, Italy, Norway, Malta, Morocco, Palestine, Poland, Portugal, Romania, Sicily, Spain, Sweden, Switzerland, Syria, Tunisia, Turkey, Ukraine

**Distribution in Egypt:** Coast Stripe

**Type Locality:** Austria, Wien

**Type specimen:**

**Type:** Destroyed

**3. *Cucullia hemidiaphana* Graeser, 1892**

*Cucullia efflatouni* Wiltshire, 1948

*Cucullia galleti* Rungs, 1972

**Common name:** Unknown

**Wingspan:** 30-35 mm

**Host records:** *Artemisia* sp.

**Geographical Records:** Afghanistan, Azerbaijan, Iran, Jordan, Kyrgyzstan, Morocco, Oman, Turkey, Turkmenistan, UA Emirates

**Distribution in Egypt:** Sinai

**Type Locality:** Egypt, S. Sinai, Wadi el Lega, Um Arab, Farsh el Arab as *Cucullia efflatouni* Kyrgyzstan, as *Cucullia hemidiaphana*

**Type specimen:****Type:** Alfieri Coll. Cairo (Destroyed) as *C. efflatouni***Paratype:** Male (BMNH, London) *C. efflatouni***Syntype:** 2 Males and one male (ZMHB) as *Cucullia hemidiaphana***4. *Cucullia macara* Rebel, 1947***Cucullia macara* ssp. *benderi* Boursin, 1963*Cucullia leptographa* Reisser, 1958**Common name:** Unknown**Wingspan:** about 32 mm**Host records:** L.T.**Geographical Records:** Israel, Jordan, Palestine, Saudi Arabia**Distribution in Egypt:** Gebel Elba, Sinai**Type Locality:** Egypt, Gebel Elba, Wadi Cansisrob**Type specimens:****Syntype:** Male & Female (NHW)**5. *Cucullia melanoglossa* (Berio, 1934)***Pseudocopicucullia melanoglossa* Berio, 1934**Common name:** Unknown**Wingspan:****Host records:** L.T.**Geographical Records:** Libya**Distribution in Egypt:** Sheikh Fadl (Upper Egypt)**Type Locality:****Type specimens:****Syntype:****6. *Cucullia santolinae* Rambur, 1834***Cucullia amaenissima* Oberthür, 1918**Common name:** Holy Linae**Wingspan:** 40-44 mm**Host records:** *Artemisia*, *Santolina* sp.**Geographical Records:** Algeria, Corsica, France, Israel, Italy, Jordan, Lebanon, Morocco, Palestine, Portugal, Sardinia, Sicily, Spain, Tunisia, Turkey**Distribution in Egypt:** Gebel Elba**Type Locality:** France, Corisca as *Cucullia santolinae*Algeria, Biskra as *Cucullia amaenissima***Type:** BMNH, London as *Cucullia amaenissima***7. *Cucullia syrtana* (Mabille, 1888)***Pseudocopicucullia syrtana* subsp. *iranica* Brandt 1841**Common name:** Unknown**Wingspan:** 35-42 mm**Host records:** Asteraceae (*Launaea* sp.)**Geographical Records:** Algeria, Cyprus, Greece, Iran, Iraq, Israel, Jordan, Kuwait, Malta, Mauritania, Libya, Morocco, Palestine, Saudi Arabia, Tunisia, UA Emirates**Distribution in Egypt:** Lower Egypt, Costal Stripe, Eastern Desert, Sinai**Type Locality:** Tunisia, Gebes**Type specimens:****Holotype:** MNHN, Paris**2. *Shargacucullia Ronkay & Ronkay*, 1992****8. *Shargacucullia strigicosta* (Boursin, 1940)***Cucullia strigicosta* Boursin, 1940

**Common name:** Unknown

**Wingspan:** 38-42mm.

**Host records:** *Scrophularia* sp, *Artemisia monosperma*, *Retama raetam* and *Helianthemum stipulatum*

**Geographical Records:** Azerbaijan, Iran, Iraq, Israel, Jordan, Palestine, Turkey

**Distribution in Egypt:** Sinai

**Type Locality:** Iraq, (Near Khannikin, Kizil-Robat, Djebel Darawishka).

**Type specimens:**

**Holotype:** Male (LNK, Karlsruhe, Germany)

### 9. *Shargacucullia verbasci* Linnaeus, (1758)

*Cucullia verbasci* Linnaeus, 1758

*Noctua verbasci* Linnaeus, 1758

*Cucullia oberthueri* Rothschild, 1911

**Common name:** mullein moth

**Wingspan:** 45-55 mm

**Host records:** *Verbascum*, *Scrophularia*, *Celsia* sp., *Buddleia* sp.; *Artemisia monosperma*

**Geographical Records:** Albania, Austria, Belgium, Bulgaria, Croatia, Cyprus, England, French, Germany, Hungary, Iran, Ireland, Israel, Italy, Jordan, Lebanon, Malta, Palestine, Portugal, Romania, Sicily, Spain, Switzerland, Syria, Turkmenistan, Ukraine

**Distribution in Egypt:** Lower Egypt

**Type Locality:** Europe

**Type:** LS, London

### 3. *Metlaouia* Dumont, 1929

### 10. *Metlaouia autumna* (Chrétien, 1910)

*Metlaouia pberthuri* Chrétien, 1909

*Cucullia oberthuri* Culot, 1909

*Simyra oberthueri* (Culot, 1910) (T.: Algerien, Aflou, BMNH, London)

*Simyra fiorii* (Turati, 1922) (Holot.: Libyen, Cirenaica, Tobruk)

*Simyra chpakowskii* (Chnéour, 1942) (Holot.: Tunesien, Kasserine)

**Common name:** Unknown

**Wingspan:** 35-40mm.

**Host records:** *Scrophularia* sp., *Artemisia campestris*

**Geographical Records:** Algeria, Iraq, Israel, Lebanon, Libya, Morocco, Palestine, Tunisia, Turkey,

**Distribution in Egypt:** Sinai

**Type Locality:** Tunisia (Gafsa)

**Type:** MNHN, Paris

## Subfamily Eriopinae Herrich-Schäffer, [1851] (Plate II)

Subfamily Eriopinae was previously either placed in Amphyrrinae, Hadeninae, or its own subfamily Eriopinae. Due to the complicated taxonomic histories of all the trifine groups of the Noctuidae sensu lato during the last decades, and the varying intensities of the evidence used for inferring the phylogenetic relationships, no consensus about the systematic position of the Eriopinae has ever been reached.

*Callopistria*, the type genus of the Eriopinae, was originally confined to its type species. It placed also in Acronictinae (as Acronictinae) and in Hadeninae as (*Eriopus*). Kitching (1984) reviewed the concepts of Noctuidae subfamilies and suggested placing Callopistria in the Amphyrrinae, which was considered by Kitching at least as paraphyletic. Poole (1995), suggested placing Callopistria and four other New World genera in the Eriopinae. Kitching & Rawlins (1999) transfer Callopistria back into Hadeninae based on the

superficial similarity in male genitalia and some plesiomorphic features of the pupa. Fibiger & Lafontaine (2005) discussed the validity of Eriopinae and suggested adding a few more African genera; Fibiger & Hacker (2007) further extended the taxonomic boundary of Eriopinae to accommodate the genus *Prometopus* Guenée.

So far, 2 species have been recorded in Egypt belonging to one genera.

**Type genus:** *Eriopus* Treitschke, 1825 (= *Callopistria* Hübner, [1821] 1816)

### Subfamily Eriopinae Herrich-Schäffer, [1851]

#### 1. *Callopistria* Hubner, [1821]

1. *Callopistria latreillei* (Duponchel, 1827)
2. *Callopistria yerburii* (Butler, 1884)

#### 1. *Callopistria* Hubner, [1821]

##### 1. *Callopistria latreillei* (Duponchel, 1827)

*Noctua latreillei*, Duponchel, 1827  
*Methorasa latreillei* (Duponchel, [1828])  
*Callopistria roseitelum* (Walker, 1858)  
*Callopistria anthracita* (Wanger, 1926)  
*Eriopus rechingeri* (Koutsaftikis, 1973)

**Common name:** Latreille's Latin

**Wingspan:** 25-33 mm

**Host records:** Pteridaceae (*Adiantum* sp.), Aspleniaceae (*Ceterach officinarum*), *Cochlearia* sp.

**Geographical Records:** Albania, Algeria, Angola, Austria, Bulgaria, Cape Verde, Crete, Croatia, Cyprus, DR Congo, Ethiopia, France, Greece, Hungary, India, Iran, Iraq, Israel, Italy, Kenya, Reunion, Lesotho, Madagascar, Malta, Morocco, Oman, Pakistan, Palestine, Portugal, Romania, Sardinia, Saudi Arabia, Somalia, South Africa, Spain, Switzerland, Syria, Tanzania, Turkey, UA Emirates, Yemen, Zimbabwe

**Distribution in Egypt:** Lower Egypt, Sinai

**Type Locality:** France, Provence Bretagne

**Type Specimens:**

**Syntype:** France

#### 2. *Callopistria yerburii* (Butler, 1884)

*Callopistria promiscua*, Saalmüller, 1891

**Common name:** Yerbur's Tangle

**Wingspan:** about 27mm

**Host records:** Pteridaceae (*Adiantum* sp.), Aspleniaceae (*Asplenium* sp.)

**Geographical Records:** Botswana, DR Congo, Eritrea, Eswatini, Ethiopia, India, Reunion, Lesotho, Madagascar, Mozambique, Oman, Saudi Arabia, Seychelles, Somalia, South Africa, Sri Lanka, Yemen, Zambia, Zimbabwe

**Distribution in Egypt:** Lower Egypt, Sinai

**Type Locality:** Yemen, Aden

**Type specimens:**

**Holotype:** Male, (BMNH, London)

### Subfamily Eustrotiinae Grote, 1882 (Plate II)

Eustrotiinae were often included in the Acontiinae, but interpreted by Fibiger & Lafontaine (2005) as an independent subfamily. It includes about 200 species worldwide (Speidel et al., 1996a). The systematic scope is very uncertain. The genus-group of *Eublemma* is included in the database "Butterflies and Moths of the World - Generic Names and their Type-species" of the Natural History Museum London. This group is described by Kravchenko et al. (2007) considered as a separate subfamily Eublemminae. The Eustrotiinae are probably paraphyletic.

Up to date, 11 species were recorded in Egypt under 3 genera. There are 5 types from Egypt two of them (*Ozarba capreolana* Rebel, 1947 & *Ozarba fuscescens* Rebel, 1947) recorded only from Egypt.

### **Subfamily Eustrotiinae Grote, 1882**

#### **1. *Eulocasta* Butler, 1886**

1. *Eulocasta alfierii* (Wiltshire, 1948)
2. *Eulocasta diaphora* (Staudinger, 1878)
3. *Eulocasta platizona* (Lederer, 1869)
4. *Eulocasta rex* (Wiltshire, 1948)
5. *Eulocasta tamsina* Brandt, 1947

#### **2. *Ozarba* Walker, 1865**

6. *Ozarba capreolana* Rebel, 1947
7. *Ozarba fuscescens* Rebel, 1947
8. *Ozarba scotrina* Berio, 1940
9. *Ozarba variabilis* Berio, 1940

#### **3. *Pseudozarba* Warren, 1913**

10. *Pseudozarba bipartita* (Herrich-Schäffer, 1850)
11. *Pseudozarba menozona* (Hampson, 1910)

#### **1. *Eulocasta* Butler, 1886**

##### **1. *Eulocasta alfierii* (Wiltshire, 1948)**

*Eulocasta alfierii erythra* Wiltshire, 1948, (Holot. Saudi Arabia, BMNH, London)  
*Thalerastria alfierii* Wiltshire, 1948

**Common name:** Unknown

**Wingspan:** about 16mm.

**Host records:** L.T.

**Geographical Records:** Oman, Saudi Arabia, United Arab Emirates, Yemen

**Distribution in Egypt:** Sinai.

**Type Locality:** Egypt, S. Sinai, Bir Isla, Wadi Isla, Karm Alam as *O. alfierii*

**Type specimens**

**Holotype:** Male (USNM, Washington)

##### **2. *Eulocasta diaphora* (Staudinger, 1878)**

*Erastria diaphora* Staudinger, 1878

*Thalerastria laticincta* (Staudinger, 1898); (Synt.: Turkey, Mardin, MNHU, Berlin)

*Metachrostis atribasalis* (Hampson, 1896); (T.: Yemen, Aden, BMNH, London)

*Thalpochares triangularis* Warren, 1888

**Common name:** Unkown

**Wingspan:** 15-17 mm

**Host records:** *Conyza albida*

**Geographical Records:** Afghanistan, Algeria, Armenia, India, Iran, Iraq, Israel, Jordan, Lebanon, Morocco, Oman, Pakistan, Palestine, Russia, Saudi Arabia, Spain, Syria, Turkey, United Arab Emirates, Yemen

**Distribution in Egypt:** Lower & Upper Egypt, Eastern Desert, Sinai, Gebel Elba

**Type locality:** Turkey, Kerasdere

**Type Specimen:**

**Holotype:** Female (MNHU, Berlin)

##### **3. *Eulocasta rex* (Wiltshire, 1948)**

*Thalerastria rex* Wiltshire, 1948

**Common name:** Unkown

**Wingspan:** about 16mm.

**Host records:** L.T.

**Geographical Records:** Yemen, Saudi Arabia.

**Distribution in Egypt:** Red Sea, Eastern Desert

**Type locality:** Yemen, Asia Mountain, Khamis Mushait

**Type specimen:**

**Holotype:** Male, BMNH, London

#### 4. *Eulocasta platizona* (Lederer, 1869)

*Madopa platizona* Lederer, 1869

*Eulocasta schah* Bytinski-Salz & Brandt, 1937

**Common name:** Unkown

**Wingspan:** about 17mm

**Host records:** L.T.

**Geographical Records:** Iran, Transcaucasia (USSR).

**Distribution in Egypt:** Lower Egypt

**Type locality:** USSR, Transcaucasie

**Type specimen:**

**Type:** Transcaucasie, (MNHU, Berlin)

**Holotype:** Iran, Keredj, male (NR, Stockholm) as *E. schah*

#### 5. *Eulocasta tamsina* Brandt, 1947

*Eulocasta tamsi* Brandt, 1941

**Common name:** Unkown

**Wingspan:** 14-17mm.

**Host records:** L.T.

**Geographical Records:** Gambia, Iran, Oman, United Arab Emirates, Yemen

**Distribution in Egypt:** Upper Egypt, Gebel Elba

**Type locality:** Iran, Kouh, aftan: Bender Tchahbhar

**Type specimen:**

**Syntype:** NHRM, Stockholm

#### 2. *Ozarba* Walker, 1865

#### 6. *Ozarba capreolana* Rebel, 1947

**Common name:** Unknown

**Wingspan:**

**Host records:** L.T.

**Geographical Records:** Not Recorded

**Distribution in Egypt:** Gebel Elba

**Type Locality:** Egypt, Gebel Elba, Mersa Halaib

**Type specimens**

#### 7. *Ozarba fuscescens* Rebel, 1947

**Common name:** Unknown

**Wingspan:**

**Host records:** L.T.

**Geographical Records:** Not Recorded

**Distribution in Egypt:** Gebel Elba

**Type Locality:** Egypt, Gebel Elba, Wadi Eideb

**Type specimens**

#### 8. *Ozarba socotrana* Hampson, 1910

*Ozarba cervina* Rebel, 1948

*Ozarba timida* Berio, 1940

**Common name:** Unknown

**Wingspan:**

**Host records:** L.T.

**Geographical Records:** Eritrea, Madagascar, Oman, Saudi Arabia, Yemen

**Distribution in Egypt:** Gebel Elba

**Type Locality:** Yemen, Socotra, Habidu Plain as *Ozarba socotrana*

Egypt, Gebel Elba, Wadi Eideb as *Ozarba cervina*

Eritrea, Elaberet, as *Ozarba timida*

**Type specimens:**

**Holotype:** Male, (BMNH, London) as *Ozarba socotrana*

Male, (MSNM) as *Ozarba timida*

**Paratype:** Male and Female (BMNH, London) as *Ozarba timida*

#### 9. *Ozarba variabilis* Berio, 1940

*Ozarba elephina* Rebel, 1948

**Common name:** Unknown

**Wingspan:**

**Host records:** L.T.

**Geographical Records:** Eritrea, Ethiopia, Mauritania, Sudan, Tanzania, Yemen

**Distribution in Egypt:** Gebel Elba

**Type Locality:** Eritrea, Elaberet, as *Ozarba variabilis*

Egypt, Gebel Elba, Wadi Eideb as *Ozarba elephina*

**Type specimens:**

**Holotype:** male, MSNM as *Ozarba variabilis*

#### 2. *Pseudozarba* Waren in Seitz, 1913

#### 10. *Pseudozarba bipartita* (Herrich-Schäffer, 1850)

*Apamea bipartita* Herrich-Schäffer, 1850

*Pseudozarba pseudomorosa* Hacker, 2016

**Common name:** Unknown

**Wingspan:** 16-20mm

**Host records:** Poaceae (*Setaria* sp. and others)

**Geographical Records:** Algeria, Bulgaria, Burkina Faso, Cape Verde, Croatia, Ethiopia, France, Gambia, Greece, Iran, Israel, Italy, Jordan, Kenya, Mauritania, Namibia, Niger, Nigeria, Palestine, Sicily, Somalia, South Africa, Spain, Sudan, Tanzania, Tunisia, Turkey, Yemen, Zambia,

**Distribution in Egypt:** Gebel Elba

**Type Locality:** Italy, Sicily

**Type specimens:**

#### 11. *Pseudozarba mesozona* (Hampson, 1910)

*Eulocastra mesozona* (Hampson, 1910)

*Thalerastria mesozona* Hampson, 1910

*Pseudozarba mediana* (Staudinger, 1898)

**Common name:** Unknown

**Wingspan:** 15-19 mm

**Host records:** LT.

**Geographical Records:** Djibouti, Eritrea, Gambia, Israel, Iran, Jordan, Oman, Palestine, UAE, Yemen.

**Distribution in Egypt:** Upper Egypt, Gebel Elba, Sinai

**Type locality:** Yemen, Aden

**Type specimens:**

**Holotype:** Female (BMNH, London)

**Plate I**  
**Subfamily: Bryophilinae Guenée, 1852**



**Subfamily: Condicinae Poole, 1995**



## Plate II

### Subfamily Cuculliinae Herrich-Schäffer, 1845



### Subfamily Eriopinae Herrich-Schäffer, [1851]



### Subfamily Eustrotiinae Grote, 1882



**REFERENCES**

- Abdel Fattah M. Amer (2005): Ecological and Taxonomical studies of some Lepidoptera from Egypt with special References to family Noctuidae. Ph.D. Thesis, Department of Entomology, Faculty of Science, Cairo University.
- Abdel Fattah M. Amer and Ashraf M. El-Torkey (2017): Revision of Higher Classification of Superfamily Noctuoidea (Lepidoptera) in Egypt, Egypt. Acad. J. Biolog. Sci., 10(1):55– 69
- Abdel Fattah M. Amer, Rizk, M. A. & Iskandar, A. K. (2006): Impact of Environment on the Diversity of Lepidopterous Insects in Three Egyptian Governorates. CATRINA (2009), 1(1): 81-88.
- Adolf Andres (1910a): Observations sur quelques Lépidoptères nouveau ou peu connus d'Egypte. Bulletin de la Société Etomologique d'Egypt, pp. 21-23
- Ahmet Omer Kocak and Muhabbet Kemal (2009): Diversity of the Lepidoptera in the World (DLW); Lepidoptera in Africa (LAF). Cesa Publications of African Lepidoptera nr. 25
- Albert Legrain and Edward P. Wiltshire (1998): Provisional Checklist of the Macroheterocera [Lepidoptera] of the UAE TRIBULUS Vol. 8.2 pp. (5-8)
- Bang-Haas A. (1912): Neue oder wenig bekannte palaearktische Makrolepidopteren V. - Deutsche entomologische Zeitschrift, Iris 26(3):139–162, pl. 6.
- Beccaloni G.W., Scoble M.J., Robinson G.S. & Pitkin B. (2005): *LepIndex*: The Global Lepidoptera Names Index.
- Bethune-Baker G. T. (1894): Notes on some Lepidoptera received from the neighbourhood of Alexandria. - Transactions of the entomological Society of London 1894: 33–51
- Bisby FA, Roskov YR, Orrell TM, Nicolson D., Paglinawan LE, Bailly N., Kirk PM, Bourgoin T., Baillargeon G., Ouvrard D. (red.) (2011). "Species 2000 & ITIS Catalog of Life: 2011 Annual Checklist." Species 2000: Reading, UK . Retrieved June 28, 2014.
- Bugnion, C. (1837): Description de quatre nouvelles espèces de Lépidoptères de la Syrie et de l'Égypte. - Annales de la Société Entomologique de France 6: 439-444 + pl. 16th Paris (FG Levrault).
- Draudt, M. (1910): Liste des Lépidoptères recueillis en Egypt par M.G. Ferrante. Bulletin de la Société Etomologique d'Egypt, pp. 96-97.
- Fibiger M. and Hacker H. (2007): Noctuidae Europaea. Vol. 9, Amphipyrinae, Condcinae, Eriopinae, Xyleninae (part). Entomological Press, Sorø, 410pp.
- Fibiger, M, & Lafontaine J.D. (2005): A review of the higher classification of the Noctuoidea (Lepidoptera) with special reference to the Holarctic fauna. Esperiana 11: 7-92.
- Fryer J. C. F. (1912): The Lepidoptera of Seychelles and Aldabra, exclusive of the Orneodidae and Pterophoridae and of the Tortricina and Tineina. - Transactions of the Linnean Society of London (2)15(Zool.) (1):1–28; pl. 1.
- Graeser, L. (1892): New Lepidoptera from Central Asia. - Berlin Entomological Journal 37 (3): 299-318.
- Hacker H. H. (2001a): Fauna of the Nolidae and Noctuidae of the Levante with descriptions and taxonomic notes (Lepidoptera, Noctuoidea). Appendix: Revision genus Clytie Hübner, [1823]. - Esperiana 8:7–398, pls. 1–22.
- Hacker H. H. (2016a): Systematic and illustrated catalogue of the Macroheterocera and Cossoidea Leach, [1815], Zygaenoidea Latreille, 1809, Thyridoidea Herrich-Schäffer, 1846 and Hyblaeoidea Hampson, 1903 of the Arabian Peninsula, with a survey of their

- distribution (Lepid.). - *Esperiana* 20(1):1–742; (2): 1–430.
- Hacker, H. & Fibiger, M. (2006). "Updated list of Micronoctuidae, Noctuidae (s.l.), and Hyblaeidae species of Yemen, collected during three expeditions in 1996, 1998 and 2000, with comments and descriptions of species." *Esperiana Buchreihe zur Entomologie* 12: 75–166.
- Hacker H. H. & Saldaitis A. (2010): Noctuidae of the Socotra Archipelago (Yemen) with notes on the fauna of the southern Arabian Peninsula (Lepidoptera, Noctuoidea). - *Esperiana Memoir* 5:172–241.
- Hacker H. H., Schreier H.-P. & Aistleitner E. (2010): Noctuidae of Cape Verde Islands (Lepidoptera, Noctuidae). - *Esperiana Memoir* 5:7–96.
- Hacker H.H.; Aulombard F.; Bischof A.; Bittermann J.; Fibiger M. & Schreier H.P. (2001): Lepidoptera of Yemen Arab Republic, collected during three expeditions in 1996, 1998 and 2000. - *Esperiana* 8:597–632.
- Hampson G. F. (1910e): Catalogue of the Lepidoptera Phalaenae in the collection of the British Museum (Nat. Hist.). X. Noctuidae. 10: i–xix, 1–829.
- Hampson G. F. (1913d): Catalogue of the Lepidoptera Phalaenae in the collection of the British Museum (Nat. Hist.) XIII. Noctuidae. 13:i–xiv, 1–609. Taylor & Francis, London.
- Heppner, J. B. (1991): Classification of Lepidoptera. Holarctic Lepid., 5(1) supplement 1: 1–148.
- Innes Bey (1909): Résumé de travaux relative en partie a la faune entomologique d'Egypte.  
Bulletin de la Société Etomologique d'Egypt pp. 10-16
- Joannis, P.J. (1910): Nouveau Lèpidoptères d'Egypte. Bulletin de la Société Etomologique d'Egypt, 1: 161-170.
- Karrom, M. A. (1976): Revision of some Genera of the Family Noctuidae (Lepidoptera) in A.R. Egypt. PhD Thesis, Dep. Ent., Fac. Sci., Ain Shams University.
- Kitching, I.J. (1984): A historical review of the higher classification of the Noctuidae (Lepidoptera). *Bulletin of the British Museum (Natural History), Entomology series* 49(3): 153-234.
- Kitching, I. J. and Rawlins, J. E. 1999 [1998]. The Noctuoidea. pp. 355–401. In KRISTENSEN, N. P. (Ed.). Lepidoptera: Moths and Butterflies. Volume 1: Evolution, systematics and biogeography. – Handbook of Zoology/Handbuch der Zoologie. 491 pp. Berlin/New York: Walter de Gruyter.
- Kravchenko, V. D.; Orlova, O.; Fibiger, M.; Mooser, J.; Li, C. & Müller, G. C. (2006): The Acronictinae, Bryophilinae, Hypenodinae and Hypeninae of Israel (Lepidoptera: Noctuidae) SHILAP Revta. lepid., 34 (135): 255–264.
- Kravchenko V. D., Fibiger M., Hausmann A. & Müller G. C. (2007b): The Lepidoptera of Israel. Volume 2. Noctuidae. 2:1–320, incl. pls. 1–38.
- Lafontaine, J. D. & Fibiger, M. (2006): Revised Higher Classification of the Noctuoidea (Lepidoptera). *Bull. ent. Soc. Can.*, 138: 610–635.
- Legrain A. & Wiltshire E. P. (1998). Provisional checklist of the Macro-Heterocera (Lepidoptera) of the UAE. - *Tribulus* 8(2):5–8.
- Lehmann L. (2010b): Records of interesting eremic Noctuidae species new to several southern Mediterranean countries (Lepidoptera, Noctuidae). - *Esperiana Memoir* 5:409—412, pl. 20.
- Lehmann L. & Saldaitis A. (2006): Beitrag zur Nachtfalter-Fauna des Sinai (Lepidoptera). - *Esperiana* 12: 205-209, pls. 23, 24.
- Mabille P., (1888): Description de quelques Lépidoptères nouveaux de Tunisie et d'Algérie (2ème partie). - *Annales de la Société entomologique de France*, sér. 6, 8: LI-LII.

- Ménétriers M. (1849): Catalogue des insectes recueillis par feu M. Lehmann avec les descriptions des nouvelles espèces (seconde et dernière partie). - Mémoires de l'Académie impériale des sciences de St.-Pétersbourg Série 6, vol. 8(2):218–328, pls. 3–6.
- Oshaibah, A. A. (1981): Classification of some moths of family Noctuidae-Lepidoptera in Egypt. Ph.D. Thesis, Ent. Zool. Dept., Gac.Sci., Al-Azhar University.
- Pekarsky, O. & Ronkay, L. (2010): "Subfamily Bryophilinae Guenée. The *Bryophila raptricula* species-complex. in: Fibiger, M., Ronkay, L., Yela, J.L. & Zilli, A. (2010): Rivulinae – Phytometrinae, and Micronoctuidae, including Supplement to Noctuidae Europaea, vols 1-11. Noctuidae Europaea, volume 12." – Entomological Press, Sorø, 504 pp. + 13 colour plates.
- Poole, R. W. (1989): Lepidopterorum Catalogus (N.S.), Fasc. 118, Noctuidae part 1, 2, 3. Leiden/ New York: E. J. Brill/ Flora & Fauna Publications, xii + 1314pp.
- Poole, R. W. (1995): Noctuoidea: Noctuidae (part), Cuculliinae, Stiriinae, Psaphidinae (Part). pp. 249. In: R. B. Dominick et al., eds. The Moths of America North of Mexico Fasc. 26. Washington, DC.: The Wedge Entomological Research Foundation.
- Rebel H. (1909). In: Kneucker A., Zoologische Ergebnisse zweier in den Jahren 1902 und 1904 durch die Sinaihalbinsel unternommener botanischer Studienreise nebst zoologischen Beobachtungen aus Ägypten, Palästina und Syrien (Lepidoptera). - Verhandlungen des naturwissenschaftlichen Vereins Karlsruhe 21:129–137
- Rebel H. (1948): New heteroceras from Egypt. - Journal of the Vienna Entomological Society 32 (1947) (5–7): 49-60
- Ronkay, G. & Ronkay, L. (1994): Noctuidae Europaea, Cuculiinae I, Volume 6.
- Ronkay, G. & Ronkay, L. (1988): Taxonomic studies on the Palaearctic Cuculliae (Lepidoptera, Noctuidae), Part IV. Annales Histrico-Naturales Musei Nationalis Hungarici, 80: 91-103.
- Ronkay, L., Ronkay, G. & Behounek, G. (2008): Plusiinae 1. A Taxonomic Atlas of the Eurasian and North African Noctuoidea. Volume 1. – Heterocera Press, Budapest. 342 pp.
- Ronkay, G. & Ronkay, L. (2009): Cuculliinae 1. A Taxonomic Atlas of the Eurasian and North African Noctuoidea. Volume 2. – Heterocera Press, Budapest. 365 pp.
- Treitschke, F. (1835): The Butterflies of Europe **10** (2): 1-340. Leipzig (Ernst Fleischer).
- Seitz, A. (1938): The Macrolepidoptera of the World, Vol.3; The Palearctic Noctuid Moth
- Seitz, A. [Ed.] (1931-1938): The Great Butterflies of the Earth. A systematic processing of the previously known large butterflies. Supplement to volume 3. The palaearctic owl-like moths: I-VI, 1-332, pl. 1-26.
- Speidel, W., Fänger, H. and Naumann, C. M. (1996a): The phylogeny of the Noctuidae (Lepidoptera). Systematic Entomology, 21: 219–251.
- Storey, G., B.A., F.E.S. (1914): Notes on some Egyptian Lepidoptera. Bulletin de la Société Etomologique d’Egypt, pp. 73-75.
- Storey, G., B.A., F.E.S. (1916): List of Egyptian insects in the Collection of the Ministry of Agriculture. Cairo, Government Press, 52pp.
- Viette P. & Fletcher D.S., (1968): The types of Lepidoptera Heterocera described by P. Mabille. - Bulletin of The British Museum (Natural History) Entomology, 21: 389-425.
- Walker F. (1857a): List of the Specimens of Lepidopterous Insects in the Collection of the British Museum. Part X. Noctuidae. 10 (1856): i–iv, 253–491.
- Walker F. (1870): A list of the Lepidoptera collected by J. K. Lord, Esq., in Egypt, along the African shore of the Red Sea, and in Arabia; with descriptions of the species new to science.- The Entomologist 5(80–81):123–134; (82): 151–155.
- Wiltshire E. P. (1947b). Middle East Lepidoptera, VII: New species and forms from Egypt

- and Arabia. - Bulletin of the Society Fouad I Entomology 31(1):4–11.
- Wiltshire E. P. (1948a): The Lepidoptera of the Kingdom of Egypt, part 1. - Bulletin of the Society Fouad I Entomology 32:203–294, pls. 1–8
- Wiltshire E. P. (1977a). Middle East Lepidoptera XXXIV. More new species of Noctuidae (Lep.) from Africa and Arabia, with further records of Lepidoptera from the Sudan. - Mitteilungen der Münchener Entomologischen Gesellschaft 66:127–140.
- Wiltshire E. P. (1980a): Lepidoptera: Fam. Cossidae, Limacodidae, Sesiidae, Lasiocampidae, Sphingidae, Notodontidae, Geometridae, Lymantriidae, Nolidae, Arctiidae, Agaristidae, Noctuidae, Ctenuchidae. – In: Wittmer & Büttiker (eds.), Fauna of Saudi Arabia 2. - Fauna of Saudi Arabia 2:179–240.
- Wiltshire E. P. (1988): Fam. Metarbelidae, Geometridae, Arctiidae, Agaristidae, Noctuidae (part 6). – In Büttiker, W. & Krupp, F. (eds.) Fauna of Saudi Arabia. - Fauna of Saudi Arabia 9: 68–82.
- Zerny H. (1915): Zwei neue paläarktische Noctuiden. - Verhandlungen der zoologisch-botanischen Gesellschaft Wien 65:222–225.
- \* [www.Bestimmungshilfe für die in Europa nachgewiesenen Schmetterlingsarten](http://www.natura.org/lepidoptera/noctuidae/calopha.htm)
- \* [www.funet.fi/pub/sci/bio/life/.../lepidoptera/.../noctuidae/.../calopha...](http://www.funet.fi/pub/sci/bio/life/.../lepidoptera/.../noctuidae/.../calopha...)
- \* [www.noctuidae.de \(Noctuidae, Nolidae und Pantheidae von Bernd Schacht\)](http://www.noctuidae.de)

## ANNEXE 1

### Recent situation of Noctuidae in Egypt

After the revision of all specimens, collections and all references we found:

- \* *Pseudohadena jordana* (Staudinger, 1900) transfer from subfamily Hadeninae to subfamily Xyleninae
- \* *Aegoceropsis brevivitta* (Hampson, 1901) added to subfamily Agaristinae
- \* *Prospalta coptica* Wiltshire, 1948 is a synonymy to *Condica pauperata* (Walker, 1858) (Condicinae)
- \* Both *Cucullia syrtana* (Mabille, 1888) and *Cucullia verbasci* Linnaeus, 1758 transfer to genus *Shargacucullia* (Cuculliinae)
- \* *Anarta sodae* (Boisduval, 1829) added to subfamily Hadeninae
- \* *Aegle vespertalis* Hübner, [1812] is a synonymy to *Aegle semicana* (Esper, 1798) (Metoponiinae)
- \* *Anarta sodae* (Boisduval, 1829) added to subfamily Hadeninae
- \* *Bryomima sinaica* Wiltshire, 1948 is a synonymy to *Calophasia siniaca* (Wiltshire, 1948) (Oncocnemidinae)
- \* *Calophasia melanglossa* Berio, 1934 (Oncocnemidinae) not recorded in Egypt (get out from former list).
- \* *Spodoptera exempta* (Walker, 1857) (Xyleninae) 1934 not recorded in Egypt (get out from former list).
- \* *Caradrina flavirena* Güenée, 1852 (Xyleninae) 1934 not recorded in Egypt (get out from former list).
- \* *Caradrina apicimaculata* Rebel, 1947 is a synonymy to *Caradrina oberthuri* (Rothschild, 1913) (Xyleninae)
- \* *Luperina diversa* (Staudinger, 1892) added to subfamily Xyleninae
- \* *Conistra staudingeri* Graslin, 1863 added to subfamily Xyleninae
- \* *Pseudamathes volloni* Lucas, 1907 added to subfamily Xyleninae
- \* *Aporophyla australis* (Boisduval, 1829) is a synonymy to *Aporophyla nigra* (Haworth, 1809) (Xyleninae)
- \* *Ctenoplusia albostriata* (Bremer & Grey, 1853) added to subfamily Plusiinae (from Egyptian Nuba (Von F. Kasy, 1963))
- \* *Ctenoplusia limbirena* (Guenée, 1852) added to subfamily Plusiinae (from Egyptian Nuba (Von F. Kasy, 1963))
- \* Genus *Eulocastra* Butler, 1886 transfer from Acontiinae to Eustrodiinae
- \* There are 50 species as types (Types, Holotypes, Paratypes, ...etc)
- \* Family Noctuidae contain 16 subfamilies, 82 genera and 203 species as follows:

#### Summary of family Noctuidae in Egypt (Arranged according to the number of species)

No.	Subfamily	No. of Genera	No. of Species
1	Xyleninae	21	44
2	Noctuinae	7	33
3	Hadeninae	12	30
4	Acontiinae	5	15
5	Oncocnemidinae	8	15
6	Plusiinae	8	12
7	Eustrotiinae	3	11
8	Bryophilinae	1	11
9	Cuculliinae	3	10
10	Condicinae	2	6
11	Heliothinae	4	5
12	Agaristinae	2	3
13	Amphipyrinae	2	3
14	Acronictinae	1	2
15	Eriopinae	1	2
16	Metoponiinae	1	1

**ANNEXE II**  
**List of Noctuidae type species in Egypt**

**Subfamily Bryophilinae Guenée, 1852**

1. *Cryphia minima* Waltshire, 1949 from Wadi Hoff (Cairo, Lower Egypt)
2. *Cryphia pallida* (Bethune-Baker, 1894) from Alexandria (Coastal Strip); (Type: BMNH)
3. *Cryphia vandalusiae* (Duponchel, 1842) from Alexandria as *Miana trilinea* Bethune-Baker, 1894; (Type)

**Subfamily Condicinae Poole, 1995**

4. *Acosmetia arida* Joannis, 1909 from Mokattam, Cairo (Lower Egypt); (Type: MNHN)
5. *Condica pauperata* (Walker, 1858) from Marsa Halaib, (Gebel Elba) as *Prospalta optica* Wiltshire, 1948

**Subfamily Cuculliinae Herrich-Schäffer, [1850]**

6. *Cucullia hemidiaphana* Graeser, 1892 from Wadi el Lega, Um Arab, Farsh el Arab (S. Sinai) as *Cucullia efflatouni* Wiltshire, 1948; (Type: Alfieri Collection, Destroyed; Paratype: BMNH)
7. *Cucullia macara* Rebel, 1947 from Wadi Cansisrob (Gebel Elba); (Syntype: NHMW)

**Subfamily Eustrotiinae Grote, 1882**

8. *Eulocastra alfierii* (Wiltshire, 1948) from Bir Isla, Wadi Isla, Karm Alam (S. Sinai); (Holotype: USNM)
9. *Ozarba capreolana* Rebel, 1947 from Mersa Halaib (Gebel Elba)
10. *Ozarba fuscescens* Rebel, 1947 from Wadi Eideb (Gebel Elba)
11. *Ozarba socotrana* Hampson, 1910 from Wadi Eideb (Gebel Elba) as *Ozarba cervina* Rebel, 1948
12. *Ozarba variabilis* Berio, 1940 from Wadi Eideb (Gebel Elba) as *Ozarba elephina* Rebel, 1948

**Subfamily Acontiinae**

12. *Acontia asbenensis* (Rothschild, 1921) from Bir Tarfa, (S. Sinai) as *Trache hemipentha* Wiltshire, 1947; (Holotype: male, USNM, Washington; Paratype: male, BMNH, Lond.)
13. *Acontia biskrensis* Oberthur, 1887 from Gebel Elba as *Tarache grisescens* Rebel, 1947; (Syntype: Allfieri Coll., not found)
14. *Acontia crassivalva* (Wiltshire, 1947) from Sinai (Holotype: male, Alfieri collection (not found); USNM, Washington; genitalia in BMNH, London)
15. *Acontia dichroa* (Hampson, 1914) from Wadi Aideb (Gebel Elba) as *Tarache seminigra* Rebel, 1947, (Type)
16. *Armada nilotica* Bang-Hass, 1912, from Cairo (Lower Egypt); (Holotype: 2 males, MNHU, Berlin)
17. *Epharmottomena eremophila* (Rebrl, 1895); from Sinai as *M. plumbizonata* (Type: BMNH, London); from Cairo (Lower Egypt) as *L. plumbizonata* (Holotype: BMNH, London)
18. *Pyraloides spodia* Rebel, 1947; from Wadi Aideb (Gebel Elba); (Holotype: Alf. Coll.; male (not found))

**Subfamily Hadенинае**

19. *Cardepia sociabilis* (Graslin, 1850) from Alexandria (Coastal Stripe) as *Mamestrafra* Bethune-Baker, 1894; (Types: BMNH, London).
20. *Hadula deserticola* (Hampson, 1905) from Suez (Eastern Desert) as *Aglossestra deserticola* Hampson, 1905 (Holotype: BMNH, London)
21. *Hadena syriaca* (Ostheder, 1933) from Sinai as *Anepia imitaria* ssp. *petroffi* Wiltshire, 1948, (Holotype: BMNH, London)

22. *Thargelia gigantea* Rebel, 1909, from W. Werdan, Ajun Mus Oasis, W, Werdan (Sinai) (Syntypes: NM, Vienna)
23. *Mamestra immiscens* Walker, 1870; from Sinai, (Type: Mount Sinai)
24. *Mamestra mixtura* Walker, 1870; from Sinai, (Type: Mount Sinai)
25. *Mythimna languida* (Walker, 1858) from Alexandria (Coastal Strip) as *Mamestra abbas* Bethune-Baker, 1894 and as *Aletia abbas* Bethune-Baker, 1894 (Holotype: BMNH, London).

#### **Subfamily: Xyleninae**

26. *Caradrina alfieri* (Boursin, 1937) from Gebel Katherin (Sinai); (Holotype: female, coll. Alfieri; Paratype: Coll. Alfieri and BMNH, London).
27. *Caradrina katherina* Wiltshire, 1947 from Gebel Katherin (Sinai); (Holotype: Male, Coll. Alfieri; Allotype, female, Coll. Alfieri. Paratype: Coll. Alfieri, & BMNH, London).
28. *Scythocentropus inquinata* (Mabille, 1888); from Cairo (Lower Egypt) as *Centropodia ferrantei* (Draudt, 1911).
29. *Luperina grzimeki* Hacker, 1989 from l-Agami (Costal Stripe); (Holotype: Male in Coll. Zoologische Staassammlung München)
30. *Sidemia beduina* Wiltshire, 1948 from AlArish (S. Sinai). (Holotype: USNM, Washington & BMNH)
31. *Sesamia cretica* Lederer, 1857 from Al Arish (N. Sinai); (Type: MNHU, Berlin)
32. *Sesamia wiltshirei* Rungs, 1963; from Ismailia (Eastern Desert); (Holotype: MNHN, Paris).
33. *Mniotype compitalis* (Draudt, 1909) from Alexandria (Costal Strep); (Syntype: 2 males, destroyed).
34. *Polymixis aurora* (Turati, 1924) from Cairo (Lower Egypt) as *Eumichtis aurora aegyptiaca* Wiltshire, 1947; (Type: Coll. Alfieri, not found)
35. *Xylena infusa* Walker, 1870 from Gebel Elba; Type
36. *Xylena lefebvrei* Bugnion, 1837; Gebel Elba; Type

#### **Subfamily: Metoponiinae Herrich-Schäffer, 1851**

37. *Aegle semicana* (Esper, 1798) from Sinai as *Aegle vespertalis* form *petroffi* Andres & Seitz, 1925; (Type: Coll. Alfieri, not found)

#### **Subfamily Noctuinae Latreille, 1809**

38. *Agrotis alexandriensis* Bethune-Baker, from Alexandria (Coastal Strip); (Syntypes: BMNH, London)
39. *Agrotis inobtrusa* Walker, 1870 from St. Kathrin, Tur Sinai, Mount Sinai (S. Sinai); (Holotype: Male, BMNH, London, probably lost).
40. *Agrotis marginata* Walker, 1870; from Mount Sinai, Wadi Genneh, (S. Sinai); (Holotype, male, coll. J. K. Lord, destroyed)
41. *Agrotis pictifascia* (Hampson, 1896) from Gebel Elba as *Agrotis (Euxoa) pictifascia* subsp. *elabaensis* Rebel, 1948; (Holotype: 3 females, NHMW, Vienna)
42. *Agrotis pierreti* (Bugnion, 1837) from Alexandria (Costal Stripe) (Syntypes: male & female BMNH, London).
43. *Agrotis trux* (Hübner, [1824]) from Alexandria (Costal Stripe) as *Agrotis trux nili* Bethune-Baker, 1894; and from Mariout as *Agrotis adolfi* Corti & Draudt, 1933; (Type: as *A. nili*, BMNH, London; Syntype, as *A. adolfi* 1 Male and 2 Female)
44. *Euxoa wagneri* Corti, 1926, from Dekela (Coastal Stripe) as *Agrotis wagneri* Corti, 1926; (Holotype: NM, Basel)
45. *Feltia mollis* (Walker, [1857]), from Mount Sinai (Sinai); (Holotype: male, coll. J. K. Lord destroyed)

**Subfamily Oncocnemidinae Forbes & Franclemont, 1954**

46. *Calophasia sinaica* Wiltshire, 1948; from Gebel Katherine, W. El Rabaa (S. Sinai); (Holotype: USNM, Washington)
47. *Cerapoda aegyptiaca* Joannis, 1910; from Helwan, Cairo (Lower Egypt); (Type: MNHN, Paris)
48. *Metopoceras eutychina* Rebel, 1948; from St. Katherine (S. Sinai); (Holotype: NHMW, Vienna)
49. *Metopoceras kneuckeri* (Rebel, 1903); from W. Esch-Schech and Serbal Mountain (Sinai); (Holotype: LNK, Karlsruhe)
50. *Teinoptera culminifera* Calberla, 1891; from Al Arish (N. Sinai); (Syntype: ZMHB, Hamburg)

## ANNEXE III

## Recent List of Noctuidae Latreille, 1809 in Egypt

## 1. Subfamily Acontiinae Guenée, 1841

## Tribe Acontiini Guenée, 1841

1. *Acontia* Ochsenheimer, 1816

1. *Acontia asbenensis* (Rothschild, 1921)
2. *Acontia biskrensis* Oberthür, 1887
3. *Acontia carnescens* (Hampson, 1910)
4. *Acontia crassivalva* (Wiltshire, 1947)
5. *Acontia dichroa* (Hampson, 1914)
6. *Acontia hortensis* Swinhoe, 1884
7. *Acontia karachiensis* Swinhoe, 1889
8. *Acontia lucida* (Hufnagel, 1766)
9. *Acontia opalinoidea* (Guenée, 1852)

## Tribe Armadini Wiltshire, 1961

2. *Armada* Staudinger, 1884

10. *Armada dentata* (Staudinger, 1884)
11. *Armada nilotica* Bang-Haas, 1912
12. *Armada panaceorum* (Ménétriés, 1849)

3. *Epharmottomena* John, 1909

13. *Epharmottomena eremophila* (Rebel, 1895)

4. *Iranada* Wiltshire, 1977

14. *Iranada turcorum* (Zerny, 1915)

5. *Pyraloides* Rebel, 1947

15. *Pyraloides spodia* Rebel, 1947

## 2. Subfamily Acronictinae Heinemann, 1859

6. *Simyra* Ochsenheimer, 1816

16. *Simyra albovenosa* (Goeze, 1781)
17. *Simyra dentinosa* Freyer, 1839

## 3. Subfamily Agaristinae Herrich-Schäffer, [1858]

7. *Aegoceropsis* Karsch, 1895

17. *Aegoceropsis rectilinea* Boisduval, 1836
18. *Aegoceropsis brevivitta* (Hampson, 1901)

8. *Heraclia* Hübner, 1820

19. *Heracula geryon* (Fabricius, 1781)

## 4. Subfamily Amphipyrinae Guenée, 1837

## Tribe: Amphipyrini Guenée, 1837

9. *Amphipyra* Ochsenheimer, 1816

20. *Amphipyra tetra* (Fabricius, 1787)
21. *Amphipyra tragopoginis* (Clerck, 1759)

10. *Matopo* Distant, 1898

22. *Matopo selects* (Walker, 1865)

## 5. Subfamily Bryophilinae Guenée, 1852

11. *Cryphia* Hübner, 1818

23. *Cryphia algae* (Fabricius, 1775)
24. *Cryphia amasina* (Drandt, 1931)
25. *Cryphia fraudatricula* (Hübner, 1803)
26. *Cryphia maeonis* (Lederer, 1865)
27. *Cryphia minima* Wiltshire, 1949

- 28. *Cryphia pallida* (Bethune-Baker, 1894)
- 29. *Cryphia paulina* (Staudinger, 1892)
- 30. *Cryphia petrea* (Guenée, 1852)
- 31. *Cryphia raptricula* (Denis & Schiffermüller, 1775)
- 32. *Cryphia receptricula* (Hübner, 1803)
- 33. *Cryphia vandalusiae* (Duponchel, 1842)

## 6. Subfamily Condicinae Poole, 1995

Tribe: Condicini Poole, 1995

### 12. *Acosmetia* Stephens, 1829

- 34. *Acosmetia arida* Joannis, 1909

### 13. *Condica* Walker, 1856

- 35. *Condica capensis* (Guenée, 1852)
- 36. *Condica conducta* (Walker, 1857)
- 38. *Condica palaestinensis* (Staudinger, 1895)
- 38. *Condica pauperata* (Walker, 1858)
- 39. *Condica viscosa* (Freyer, 1831)

## 7. Subfamily Cuculliinae Herrich-Schäffer, [1850]

Tribe Cucullini Ronkay & Gyulai, 2011

### 14. *Cucullia* Schrank, 1802

- 40. *Cucullia calendula* Treitschke, 1835
- 41. *Cucullia chamomillae* (Denis & Schiffermüller, 1775)
- 42. *Cucullia hemidiaphana* Graeser, 1892
- 43. *Cucullia macara* Rebel, 1947
- 44. *Cucullia melanoglossa* (Berio, 1934)
- 45. *Cucullia santolinae* Rambur, 1834
- 46. *Cucullia syrtana* (Mabille, 1888)

### 15. *Shargacucullia* Ronkay & Ronkay, 1992

- 47. *Shargacucullia strigicosta* (Boursin, 1940)
- 48. *Shargacucullia verbasci* Linnaeus, 1758

### 16. *Metlaouia* Dumont, 1929

- 49. *Metlaouia autumna* (Chrétien, 1910)

## 8. Subfamily Eriopinae Herrich-Schäffer, [1851]

### 17. *Callopistria* Hubner, [1821]

- 50. *Callopistria latreillei* (Duponchel, 1827)
- 51. *Callopistria yerburii* (Butler, 1884)

## 9. Subfamily Eustrotiinae Grote, 1882

### 18. *Eulocastra* Butler, 1886

- 52. *Eulocastra alfieri* (Wiltshire, 1948)
- 53. *Eulocastra diaphora* (Staudinger, 1878)
- 54. *Eulocastra platizona* (Lederer, 1869)
- 55. *Eulocastra rex* (Wiltshire, 1948)
- 56. *Eulocastra tamsina* Brandt, 1947

### 19. *Ozarba* Walker, 1865

- 57. *Ozarba capreolana* Rebel, 1947
- 58. *Ozarba fuscescens* Rebel, 1947
- 59. *Ozarba scotrana* Berio, 1940
- 60. *Ozarba variabilis* Berio, 1940

### 20. *Pseudozorba* Warren, 1913

- 61. *Pseudozorba bipartita* (Herrich-Schäffer, 1850)
- 62. *Pseudozorba menozena* (Hampson, 1910)

**10. Subfamily Hadeninae Guenée, 1837****Tribe Hadenini Guenée, 1837****Subtribe: Discestrina Beck, 1996****21. *Anarta* Ochsenheimer, 1816**

- 63. *Anarta trifolii* (Hufnagel, 1766)
- 64. *Anarta sodae* (Boisduval, 1829)

**22. *Cardepia* Hampson, 1905**

- 65. *Cardepia affinis* Rothschild, 1913
- 66. *Cardepia irrigatoria* (Erschoff, 1998)
- 67. *Cardepia sociabilis* (Graslin, 1850)

**23. *Hadula* Staudinger, 1889**

- 68. *Hadula deserticola* (Hampson, 1905)
- 69. *Hadula sabulorum* (Alphéraky, 1882)
- 70. *Hadula stoliczkana* Moore, 1878

**Subtribe: Hadenina Guenée, 1852****24. *Enterpia* Guenée, 1850**

- 71. *Enterpia laudeti* (Boisduval, 1840)

**25. *Hadena* Schrank, 1802**

- 72. *Hadena sancta* Staudinger, 1840
- 73. *Hadena silenes* (Hübner, 1822)
- 74. *Hadena silenides* (Staudinger, 1895)
- 75. *Hadena syriaca* (Ostheder, 1933)

**26. *Odontelia* Hampson, 1905 7**

- 76. *Odontelia daphnadeparisae* Kravchenko et. al., 2007

**27. *Thargelia* Pungeler, 1900**

- 77. *Thargelia gigantea* Rebel, 1909

**Subtribe: Mamestrina Beck, 1996****28. *Haplocestra* Aurivillius, 1910**

- 78. *Haplocestra similis* Aurivillius, 1910

**29. *Hecatera* Guenée, 1852**

- 79. *Hecatera dysodea* ([Denis & Schiffermüller], 1775)
- 80. *Hecatera fixseni* (Christoph, 1883)
- 81. *Hecatera weissi* (Draudt, 1934)

**30. *Mamestra* Ochsenheimer, 1816**

- 82. *Mamestra immiscens* Walker, 1870
- 83. *Mamestra mixtura* Walker, 1870

**Tribe: Leucaniini Guenée, 1837****31. *Leucania* Ochsenheimer, 1816**

- 84. *Leucania herrichii* Herrich-Schäffer, 1849
- 85. *Leucania loreyi* (Duponchel, 1827)
- 86. *Leucania palaestinae* Staudinger, 1897
- 87. *Leucania punctosa* (Treitschke, 1825)
- 88. *Leucania putrescens* (Hübner, 1824)
- 89. *Leucania zaea* Duponchel, 1827

**32. *Mythimna* Ochsenheimer, 1816**

- 90. *Mythimna languida* (Walker, 1858)
- 91. *Mythimna sicula* Treitschke, 1835
- 92. *Mythimna unipuncta* (Haworth, 1809)

**11. Subfamily Heliothinae Biosduval, 1828****33. *Helicoverpa* Hardwick, 1965**

93. *Helicoverpa armigera* (Hübner, [1805])
- 34. *Heliothis* Ochsenheimer, 1816**
- 94. *Heliothis nubigera* (Herrich-Schäffer, 1851)
  - 95. *Heliothis peltigera* (Denis & Schiffermüller, 1775)
- 35. *Masalia* Moore, 1881**
- 96. *Masalia albida* (Hampson, 1905)
- 36. *Schinia* Hübner, 1818**
- 97. *Schinia scutosa* (Denis & Schiffermüller, 1715)
- 12. Subfamily3: Metoponiinae Herrich-Schäffer, 1851**
- 37. *Aegle* Hübner, 1823**
- 98. *Aegle semicana* (Esper, 1798)
- 13. Subfamily Noctuinae Latreille, 1809**
- Tribe Noctuini Latreille, 1809**
- Subtribe Agrotina Rambur, 1848**
- 38. *Agrotis* Ochsenheimer, 1816**
- 99. *Agrotis alexandriensis* Bethune-Baker, 1894
  - 100. *Agrotis bigramma* (Hübner, 1803)
  - 101. *Agrotis catalaunensis* (Millière, 1873)
  - 102. *Agrotis haifae* Staudinger, 1897
  - 103. *Agrotis herzogi* (Rebel, 1911)
  - 104. *Agrotis inobtrusa* Walker, 1870
  - 105. *Agrotis epsilon* (Hufnagel, 1766)
  - 106. *Agrotis lasserrei* (Oberthür, 1881)
  - 107. *Agrotis lata* Treitschke, 1835
  - 108. *Agrotis marginata* Walker, 1870
  - 109. *Agrotis pictifascia* (Hampson, 1896)
  - 110. *Agrotis pierrettii* (Bugnion, 1837)
  - 111. *Agrotis puta* (Hübner, [1803])
  - 112. *Agrotis ripae* (Hübner, [1823])
  - 113. *Agrotis sardzeana* Brandt, 1941
  - 114. *Agrotis segetum* (Denis & Schiffermüller, 1775)
  - 115. *Agrotis spinifera* (Hubner, 1808)
  - 116. *Agrotis trux* (Hübner, [1824])
- 39. *Dichagyris* Lederer, 1857**
- 117. *Dichagyris erubescens* (Staudinger, 1892)
  - 118. *Dichagyris flammatra* (Denis & Schiffermüller, 1775)
  - 119. *Dichagyris forficula* (Staudinger, 1877)
  - 120. *Dichagyris imperator* (Bang-Hass, 1912)
  - 121. *Dichagyris leucomelas* Brandt, 1941
  - 122. *Dichagyris melanuroides* (Kozhantschikov, 1930)
  - 123. *Dichagyris renigera* (Hübner, [1808])
- 40. *Euxoa* Hübner, 1821**
- 124. *Euxoa anarmodia* (Staudinger, 1897)
  - 125. *Euxoa canariensis* diamondi Boursin, 1940
  - 126. *Euxoa nigrofusca* (Esper, 1788)
  - 127. *Euxoa wagneri* Corti, 1926
- 41. *Feltia* Walker, 1856**
- 128. *Feltia mollis* (Walker, [1857])
- Subtribe Noctuina Latreille, 1809**
- 42. *Noctua* Linnaeus, 1758**

129. *Noctua pronuba* (Linnaeus, 1758)
- 43. *Rhyacia* Hübner, 1821**
130. *Rhyacia arenacea* (Hampson, 1907)
- 44. *Xestia* Hübner, 1818**
131. *Xestia c-nigrum* (Linnaeus, 1758)
- 14. Subfamily Oncocnemidinae Forbes & Franclemont, 1954**
- 45. *Brachygalea* Hampson, 1906**
132. *Brachygalea albolineata* (Blachier, 1905)
- 46. *Calophasia* Stephens, 1829**
133. *Calophasia angularis* Chrétien, 1911
134. *Calophasia siniaca* (Wiltshire, 1948)
- 47. *Cerapoda* Smith, 1894**
135. *Cerapoda aegyptiaca* Joannis, 1910
- 48. *Cleonymia* Berio, 1966**
136. *Cleonymia chabordis* (Oberthür, 1876)
137. *Cleonymia jubata* Oberthür, 1890
138. *Cleonymia warionis* (Oberthür, 1876)
- 49. *Lithophasia* Staudinger, 1892**
139. *Lithophasia quadrivirgula* (Mabille, 1888)
- 50. *Metopoceras* Guenée, 1850**
140. *Metopoceras eutychina* Rebel, 1947
141. *Metopoceras khalildja* Oberthür, 1884
142. *Metopoceras kneuckeri* (Rebel, 1903)
143. *Metopoceras omar* Oberthür, 1887
144. *Metopoceras solituda* (Brandt, 1938)
- 51. *Rhabinopteryx* Christoph, 1889**
145. *Rhabinopteryx subtilis* (Mabille, 1888)
- 52. *Teinoptera* Calberla, 1891**
146. *Teinoptera culminifera* Calberla, 1891
- 15. Subfamily Plusiinae Boisduval, [1828]**
- Tribe Argyrogrammatini Eichlin & Cunningham, 1978
- 53. *Argyrogramma* Hübner, [1821]**
147. *Argyrogramma signata* (Fabricius, 1775)
- 54. *Chrysodeixis* Hübner, [1821]**
148. *Chrysodeixis chalcites* (Esper, 1789)
149. *Chrysodeixis eriosoma* (Doubleday, 1843)
- 55. *Thysanoplusia* Ichinose, 1973**
150. *Thysanoplusia circumscripta* (Freyer, 1831)
151. *Thysanoplusia daubei* (Boisduval, 1840)
152. *Thysanoplusia orichalcea* (Fabricius, 1775)
- 56. *Trichoplusia* McDunnough, 1944**
153. *Trichoplusia ni* (Hübner, 1803)
- Tribe Plusiini Boisduval, [1828]
- Subtribe: Euchalciina Chou & Lu, 1979
- 57. *Euchalcia* Hübner, [1821]**
154. *Euchalcia maria* (Staudinger, 1892)
- Subtribe: Plusiina Boisduval, [1828]
- 58. *Autographa* Hübner, [1821]**
155. *Autographa gamma* (Linnaeus 1758)
- 59. *Ctenoplusia* Dufay, 1970**

156. *Ctenoplusia albostriata* (Bremer & Grey, 1853)  
 157. *Ctenoplusia limbirena* (Guenée, 1852)
- 60. *Syngrapha* Hübner, [1821]**  
 158. *Syngrapha circumflexa* (Linnaeus, 1767)
- 16. Subfamily Xyleninae Guenée, 1837**
- Tribe Prodeniini Forbes, 1954
- 61. *Spodoptera* Guenée, 1852**  
 159. *Spodoptera cilium* (Guenée, 1852)  
 160. *Spodoptera exigua* (Hübner, 1808)  
 161. *Spodoptera littoralis* (Boisduval, 1833)
- Tribe Caradrinini Boisduval, 1840
- Subtribe Caradrinina Boisduval, 1840
- 62. *Caradrina* Ochsenheimer, 1816**  
 162. *Caradrina alfierii* (Boursin, 1937)  
 163. *Caradrina aspersa* (Rambur, 1834)  
 164. *Caradrina atriluna* Guenée, 1852  
 165. *Caradrina bodenheimeri* Amsel, 1935  
 166. *Caradrina clavipalpis* (Scopoli, 1763)  
 167. *Caradrina flava* Oberthür, 1876  
 168. *Caradrina ingrata* (Staudinger, 1897)  
 169. *Caradrina katherina* Wiltshire, 1947  
 170. *Caradrina melanurina* (Staudinger, 1901)  
 171. *Caradrina oberthuri* (Rothschild, 1913)  
 172. *Caradrina scotoptera* (Püngeler, 1914)  
 173. *Caradrina selini* Boisduval, 1840  
 174. *Caradrina soudanensis* (Hampson, 1918)
- 63. *Catamecia* Staudinger, 1898**  
 175. *Catamecia minima* (Swinhoe, 1889)
- 64. *Hoplodrina* Boursin, 1937**  
 176. *Hoplodrina ambigua* (Denis & Schiffermüller, 1775)
- 65. *Pseudoligia* Staudinger, 1901**  
 177. *Pseudoligia similaria* (Ménétriés, 1849)
- 66. *Scythocentropus* Speiser, 1902**  
 178. *Scythocentropus inquinata* (Mabille, 1888)
- Tribe Cosmiini Guenée, 1852
- Subtribe Cosmiina Guenée, 1852
- 67. *Atethmia* Hübner, [1821]**  
 179. *Atethmia ambusta* (Denis & Schiffermüller, 1775)  
 180. *Atethmia centrago* (Haworth, 1809)
- Tribe Phlogophorini Hampson, 1918
- 68. *Euplexia* Stephens, 1829**  
 181. *Euplexia lucipara* (Linnaeus, 1758)
- 69. *Phlogophora* Treitschke, 1825**  
 182. *Phlogophora meticulosa* (Linnaeus, 1758)
- Tribe Apameini Guenée, 1841
- Subtribe Apameina Boisduval, 1828
- 70. *Luperina* Boisduval, 1829**  
 183. *Luperina diversa* (Staudinger, 1892)  
 184. *Luperina grzimeki* Hacker, 1989
- 71. *Nonagria* Ochsenheimer, 1816**

185. *Nonagria typhae* (Thunberg, 1784)
- 72. *Sidemia* Staudinger, 1892**
186. *Sidemia beduina* Wiltshire, 1948
- Subtribe Sesamiima Fibiger & Goldstein, 2005**
- 73. *Sesamia* Guenée, 1852**
187. *Sesamia cretica* Lederer, 1859
188. *Sesamia nonagrioides* (Lefebvre, 1827)
189. *Sesamia wiltshirei* Rungs, 1963
- 6. Tribe Xylenini Guenée, 1837**
- Subtribe Antitypina Forbes & Frandemont, 1954**
- 74. *Aporophyla* Guenée, 1841**
190. *Aporophyla nigra* (Haworth, 1809)
- 75. *Boursinia* Brandt, 1938**
191. *Boursinia discordans* (Boursin, 1940)
192. *Boursinia lithoxylea* (Bang-Haas, 1912)
- 76. *Conistra* Hübner, [1821]**
193. *Conistra staudingeri* Graslin, 1863
- 77. *Mniotype* Franclemont, 1941**
194. *Mniotype compitalis* (Draudt, 1909)
- 78. *Polymixis* Hübner, [1820]**
195. *Polymixis aurora* (Turati, 1924)
196. *Polymixis juditha* (Staudinger, 1898)
197. *Polymixis lea* (Staudinger, 1897)
198. *Polymixis variabile* (Stertz, 1915)
- 79. *Pseudamathes* Hampson, 1910**
199. *Pseudamathes volloni* Lucas, 1907
- 80. *Pseudohadena* Alphéraky, 1889**
200. *Pseudohadena jordana* (Staudinger, 1900)
- 81. *Xanthia* Ochsenheimer, 1816**
201. *Xanthia ocellaris* (Borkhausen, 1792)
- Subtribe Xylenina Guenée, 1837**
- 82. *Xylena* Ochsenheimer, 1816**
202. *Xylena infusa* Walker, 1870
203. *Xylena lefebvrei* Bugnion, 1837