

# Fauna of the Nolidae and Noctuidae of the Levante

with descriptions and taxonomic notes

(Lepidoptera, Noctuoidea)

Appendix: Revision of the genus *Clytie* Hübner, 1823

with 130 figures and 22 colour plates

by

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## Summary

The aim of the publication presented here is to give a taxonomic and faunistic revision of the Noctuidae (Lepidoptera) of the Levante (Israel, Jordan, Lebanon, Sinai, Syria), including a summary of the distribution of all species, some details of their bionomics and figures of the genitalia features and typical examples, including the variability, of interesting taxa.

In the present fauna 585 species of noctuid moths occurring in the Levante are dealt with. Among them, 2 genera, 8 species, 10 subspecies are described as new to science, numerous new synonyms and various taxonomic changes are proposed. 79 species are newly reported for the fauna of the Levante. In many cases corrections to previous misidentifications are made or dubious taxa and records discussed.

Three neotypes are designated for the specific taxa *Clytie illunaris* (Hübner, [1813]), *Clytie syriaca* (Bugnion, 1837) and *Xylocampa areola* (Esper, [1789]). Numerous lecto- and paralectotypes are designated as well.

Key words: Fauna Noctuidae Levante, taxonomic and faunistic revision, distribution, bionomics, figures of species and genitalia, Revision Genus *Clytie* Hübner, [1823]

## Zusammenfassung

Der Zweck der vorliegenden Noctuidae-Fauna der Levante (Israel, Jordanien, Libanon, Sinai, Syrien) ist eine Revision der Taxonomie, Verbreitung, Bionomie und Zoogeographie der bisher nachgewiesenen Arten. Interessante Arten werden abgebildet, sofern für die Bestimmung notwendig, werden auch die Genitalstrukturen abgebildet. Nach gegenwärtigem Stand der Kenntnis kommen in der Levante 585 Arten vor.

Zwei Genera, 8 Arten und 10 Unterarten werden als neu für die Wissenschaft beschrieben, zahlreiche neue Synonyme und taxonomische Änderungen werden angeführt, ebenso Erkenntnisse über frühere Fehlbestimmungen oder zweifelhafte Taxa. Für die Arten *Clytie illunaris* (Hübner, [1813]), *Clytie syriaca* (Bugnion, 1837) und *Xylocampa areola* (Esper, [1789]) werden Neotypen festgelegt, ebenso Lecto- und Paralectotypen für zahlreiche weitere Taxa. Alle neuen Taxa oder taxonomische Änderungen sind in der folgenden Synopsis zusammengefaßt.

## Synopsis

**New combinations, new status** (including "Appendix"):

*Earias chlorophyllana* Staudinger, 1892; =*syrticola* Turati, 1926 syn. n.; =*waterstoni* Wiltshire, 1947 syn. n.

*Rhabdophera* Staudinger, 1898; =*Hansa* Berio, 1959 syn. n.; =*Beriohansa* Nye, 1975 syn. n.

*Rhabdophera hansali* (Felder & Rogenhofer, 1874) comb. n.

*Clytie sancta canaria* Pinker, 1974) syn. n., comb. n.

*Clytie gracilis* (Bang-Haas, 1907) bona sp.

*Clytie gracilis* *suppura* Wiltshire, 1969 comb. n.

*Clytie scotorrhiza orthomelaina* Wiltshire, 1986 comb. n.

*Clytie sabae bernardi* Rungs, 1958 comb. n.

*Clytie arenosa* Rothschild, 1913 bona sp.

*Clytie arenosa nabataea* Hampson, 1913 comb. n.

*Pandesma benenotata* Warren, 1888) syn. n.

*Drasteria herzi judaica* (Hampson, 1926) stat. n.; = *Aleucanitis herzi angustifasciata* Amsel, 1935 syn. n.

*Euchalcia hedeja* Dufay, 1978; = *Euchalcia aureolineata* Ronkay & Gyulai, 1997 syn. n.

*Eublemma siticulosa* (Lederer, 1858); = *Porohyrinia rushi* Wiltshire, 1961 syn. n.

*Cucullia hemidiaphana efflatoni* Wiltshire, 1948 stat. n.

*Mormo maura* (Linnaeus, 1758); = *Mormo maura cyprica* Hacker, 1996 syn. n.

*Olivenebula xanthochloris* Boisduval, 1840 comb. n.

*Olivenebula subsericata* Herrich-Schäffer, [1861] comb. n.

*Olivenebula* Kishida & Yoshimoto, 1977; = *Chlorothalpa* Beck, 1996 syn. n.

*Condica palaestinensis* (Staudinger, 1895) bona sp., stat. n.

*Arenostola deserticola modesta* (Staudinger, 1900) comb. n.

*Eremobastis fulva* (Rothschild, 1914); = *maribelae* Pérez-López & Morente-Benítez, 1996 syn. n.

*Eremobastis dimorpha* (Rungs, 1948); = *hackeri* de Freina & Behounek, 1996 syn. n.

*Scythrocentropus misella* (Püngeler, 1907) comb. n.

*Scythrocentropus* Speiser, 1902; = *Ecbolema* Hampson, 1908 syn. n.

*Megalodes eximia tengistana* Brandt, 1938 stat. n.

*Megalodes eximia prolixa* Draudt, 1933 stat. n.

*Allophyes benedictina* (Staudinger, 1892); = *Allophyes benedictina pseudasiatica* Boursin, 1957 syn. n.

*Polymixis trisignata* (Ménétriés, 1847); = *nasamonius* Turati, 1924 syn. n.

*Polymixis epiphlebs* (Turati & Krüger, 1936) comb. n.

*Eremotrachea bacheri* (Püngeler, 1902) comb. n.

*Agrochola schreieri* Hacker & Weigert, 1986 stat. n.

*Spudaea castanea* Osthelder, 1933 nom. rest. = *pontica* Kljutschko, 1968 syn. n.

*Lycophorus* Staudinger, 1901; = *Pachyagrotis* Boursin, 1953 syn. n.

*Lycophorus ankariensis* (Rebel, 1931) comb. n.

*Lycophorus tischendorfi* (Püngeler, 1925) comb. n.

*Dichagyris rubidior* (Corti, 1933) bona sp. , stat. n.

*Aedophron phlebophora* Lederer, 1858; =*Aedophron monotonia* Amsel, 1935 syn. n.

**79 new records for the fauna of the Levante:**

*Earias chlorophyllana* Staudinger, 1892

*Earias vitella* (Fabricius, 1794)

*Arcyophora dentula* (Lederer, 1870)

*Bryophilopsis roederi* (Standfuss, 1892)

*Nycteloa asiatica* (Krulikovsky, 1904)

*Acronicta megacephala* ([Denis & Schiffermüller], 1775)

*Victrix klapperichi* sp.n.

*Nodaria nodosalis* (Herrich-Schäffer, [1851])

*Catocala neonypha osthelderensis* Hacker, 1990

*Minucia lunaris* ([Denis & Schiffermüller], 1775)

*Anumeta cestis* (Ménétriés, 1849)

*Anumeta arabiae* Wiltshire, 1961

*Anumeta asiatica* Wiltshire, 1961

*Anumeta hilgerti popovi* Wiltshire, 1982

*Tytroca leucoptera* (Hampson, 1896)

*Gnamptonyx innexa* (Walker, 1858)

*Drasteria oranensis arabica* Wiltshire, 1990

*Lygephila lusoria amasina* (Staudinger, 1879)

*Africalpe intrusa* Krüger, 1939

*Plecoptera reflexa* Guenée, 1852

*Antarchaea erubescens* (Bang-Haas, 1910)

*Tysanoplusia orichalcea* (Fabricius, 1775)

*Metachrostis dardouini dilucida* Osthelder, 1933

*Eublemma cyrenaea* (Turati, 1924)

*Eublemma apicipunctalis* (Brandt, 1939)

*Eublemma bulla* (Swinhoe, 1884)

*Eublemma kruegeri* (Wiltshire, 1970)

*Cucullia improba muelleri* ssp. n.  
*Calophasia angularis* (Chretien, 1911)  
*Cleonymia jubata* (Oberthür, 1890)  
*Cleonymia warionis* (Oberthür, 1876)  
*Teinoptera gafsana* (Blachier, 1905)  
*Metopoceras philbyi* Wiltshire, 1980  
*Oncocnemis confusa persica* Ebert, 1878  
*Oncocnemis exacta vanensis* Hreblay & Ronkay, 1992  
*Onconemis strioligera anatolica* Hacker, 1986  
*Condica conducta* Walker, 1857  
*Apamea monoglypha* (Hufnagel, 1766)  
*Mesoligia furuncula* ([Denis & Schiffermüller, 1775)  
*Luperina rjabovi* (Kljutschko, 1967)  
*Diadochia stigmatica* Wiltshire, 1984  
*Scythocentropus eberti* sp. n.  
*Metopoplus excelsa* (Christoph, 1885)  
*Platyperigea panurgia* (Boursin, 1939)  
*Platyperigea oberthuri* (Rothschild, 1913)  
*Platyperigea soudanensis* (Hampson, 1918)  
*Paradrina mairei* (Draudt, 1909)  
*Paradrina minus* Fibiger, Svendsen & Nilsson, 1999  
*Eremodrina casearia* (Staudinger, 1900)  
*Sesamia ilonae* Hacker sp. n.  
*Osthelderia gracilis* (Osthelder, 1933)  
*Episema lemoniopsis* sp. n.  
*Ulochlaena gemmifera* sp. n.  
*Lithophane semibrunnea wiltshirei* Boursin, 1962  
*Dryobotodes tenebrosa*(Esper, [1789])  
*Polymixis epiphlebs* (Turati & Krüger, 1936)  
*Conistra veronicae* (Hübner, [1813])  
*Agrocola osthelderi* Boursin, 1951

Wiltshireola praecipua Hacker & Kravchenko sp. n.

Odontelia margina Püngeler, 1901

Hadena gueneei (Staudinger, 1901)

Hadena drenowskii sultana Hacker, 1996

Hadena avempacei (Tams, 1925)

Egira tibori Hreblay, 1994

Mythimna alopecuri (Boisduval, 1840)

Leucania joannisi Boursin & Rungs, 1952

Euxoa praestrigiosa Brandt, 1941

Euxoa foeda (Lederer, 1855)

Agrotis scruposa (Draudt, 1936)

Agrotis sardzeana Brandt, 1941

Agrotis syricola Corti & Draudt, 1933

Agrotis pierreti (Bugnion, 1837)

Dichagyris pfeifferi (Corti & Draudt, 1933)

Dichagyris anastasia (Draudt, 1936)

Stenosomides sureyae facunda (Draudt, 1938)

Chersotis capnistis (Lederer, 1872)

Spaelotis senna contorta (Rebel & Zerny, 1931)

Eicomorpha antiqua Staudinger, 1888

Heliothis incarnata (Freyer, 1838)

## Appendix

### Revision of the Genus *Clytie* HÜBNER, [1823]

#### Abstract

The genus *Clytie* HÜBNER, [1823] is a well-known Old World North-tropical desert zone genus with great variation in facies between all kinds of sandy groundcolour and more or less darkened appearances, including a strong sexualdimorphism. Additional materials of the last decades of various countries of the Old world Eremic zone give reason for additional taxonomic discussions in addition to several papers of WILTSHIRE (1976a; 1982b; 1986; 1990) on this subject.

The aim of the publication presented here is a short taxonomic and faunistic revision with check of the type specimens, summary of the distribution of all species and figures of the genitalia features and typical examples (including the variability) of all taxa.

The species status of 20 taxa with 9 additional subspecies is confirmed. *C. gyulai* HACKER sp. n. and *C. illunaris* legraini HACKER ssp. n. are described as new. In order to fix and stabilize the identity of difficult taxa, neotypes for the species *illunaris* (HÜBNER, [1813]) and *syriaca* (BUGNION, 1837) are designated.

Key words Genus *Clytie* HÜBNER, [1823], taxonomic and faunistic revision, figures of the species and their genitalia features