

# Moths: Lepidoptera

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Vitor O. Becker • Scott E. Miller

THE FOLLOWING LIST summarizes identifications of the so-called Macrolepidoptera and pyraloid families from Guana Island. Methods are detailed in Becker and Miller (2002). Data and illustrations for Macrolepidoptera are provided in Becker and Miller (2002). Data for Crambidae and Pyralidae will be provided in Becker and Miller (in preparation). General, but outdated, background information on Crambidae and Pyralidae are provided by Schaus (1940). Data for Pterophoridae are provided in Gielis (1992) and Landry and Gielis (1992). Author and date of description are given for each species name. Earlier dates were not always printed on publications; those in square brackets indicate that the year was determined from external sources not the publication itself. As in previous lists, authors' names are put in parentheses when their generic placement has been revised. Detailed acknowledgments are provided in Becker and Miller (2002), but, in addition, we are especially grateful to C. Gielis, E.G. Munroe, M. Shaffer, and M.A. Solis for assistance with identifications and to K. Darrow for assistance in all aspects of this project. Sampling on Guana Island was supported by The Conservation

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## SPHINGIDAE

### SPHINGINAE

*Agrius cingulatus* (Fabricius 1775). United States south to Argentina.

*Cocytius antaeus* (Drury 1773). Southern United States to Argentina.

*Manduca sexta* (Linnaeus 1763). Widespread in the New World.

*Manduca rustica* (Fabricius 1775). Widespread in the New World.

*Manduca brontes* (Drury 1773). Antilles north to Central Florida.

### MACROGLOSSINAE

*Pseudosphinx tetrio* (Linnaeus 1771). (See plate 37.) United States through the Antilles to Argentina.

*Erinnyis alope* (Drury 1773). Widespread in the New World.

*Erinnyis ello* (Linnaeus 1758). Neotropical.

*Erinnyis crameri* (Schaus 1898). Southern United States through the Caribbean south to Brazil.

*Erinnyis domingonis* (Butler 1875). Southern United States through the Caribbean south to Brazil.

*Erinnyis obscura* (Fabricius 1775). Southern United States through the Caribbean south to Brazil.

*Pachylia ficus* (Linnaeus 1758). Widespread in the New World.

*Callionima falcifera* (Gehlen 1943). Southern United States to Argentina.

*Perigonia lusca* (Fabricius 1777). Southern Florida to Argentina.

*Enyo lugubris* (Linnaeus 1771). Southern United States, Antilles, south to Argentina.

*Aellopos tantalus* (Linnaeus 1758). New York south to Argentina.

*Eumorpha vitis* (Linnaeus 1758). United States through the Caribbean to Argentina.

*Cauthetia noctuiformis* (Walker 1856). Caribbean.

*Xylophanes chiron* (Drury 1770). Mexico through the Antilles to Argentina.

*Xylophanes pluto* (Fabricius 1777). Southern United States to Brazil.

*Xylophanes tersa* (Linnaeus 1771). Ontario, Antilles south to Argentina.

*Hyles lineata* (Fabricius 1775). Worldwide.

## NOTODONTIDAE

*Nystalea nyseus* (Cramer 1775). Mexico through the Caribbean south to Brazil.

## NOCTUIDAE

### HELIOTHINAE

*Heliothis subflexa* (Guenée 1852). North America, Antilles, south to Argentina.

### NOCTUINAE

*Anicla infecta* (Ochsenheimer 1816). Central United States south to Argentina.

### HADENINAE

*Leucania humidicola* Guenée 1852. Antilles to Brazil.

*Leucania dorsalis* Walker 1856. Southern Florida through the Neotropics.

## AMPHIPYRINAE

*Neogalea sunia* (Guenée 1852). Florida to Argentina.

*Catabenoides terminellus* (Grote 1883). Southern United States, Antilles.

*Catabenoides lazelli* Becker & Miller 2002. Guana, Anegada, St. Croix.

*Spodoptera albulum* (Walker 1857). United States, Antilles, south to Argentina.

*Spodoptera frugiperda* (J. E. Smith 1797). Widespread in the New World.

*Spodoptera latifascia* (Walker 1856). U.S. gulf states, Antilles south to Costa Rica.

*Spodoptera pulchella* (Herrich-Schäffer 1868). Florida, Greater Antilles.

*Spodoptera dolichos* (Fabricius 1794). U.S. gulf states, Antilles south to Costa Rica.

*Magusa orbifera* (Walker 1857). Widespread from Canada to Argentina.

*Condica albiger*a (Guenée 1852). Mexico through the Antilles to Paraguay.

*Condica mobilis* (Walker [1857]). Southern United States through Antilles to Argentina.

*Condica sutor* (Guenée 1852). Southern United States, Antilles to Argentina.

*Perigea gloria* Becker & Miller 2002. Guana, Tortola.

*Elaphria agrotina* (Guenée 1852). Florida, Antilles south to Argentina.

*Elaphria nucicolora* (Guenée 1852). Neotropical.

*Anateinoma affabilis* Möschler 1890. Puerto Rico, Virgin Islands.

*Micrathetis triplex* (Walker 1857). Southern United States through South America.

## AGARISTINAE

*Caularis undulans* Walker [1858]. Hispaniola, Jamaica, Puerto Rican Bank.

## BAGISARINAE

*Bagisara repanda* (Fabricius 1793). Southeast United States to Paraguay.

## ACONTIINAE

*Amyna axis* (Guenée 1852). Pantropical.

*Ponometia exigua* (Fabricius 1793). Southern United States, Antilles south to Brazil.

*Cydosia nobilitella* (Cramer 1779). Southern United States, Antilles south to Argentina.  
*Tripudia quadrifera* (Zeller 1874). Southern United States, Antilles south to Brazil.  
*Tripudia balteata* Smith 1900. Southern United States, Antilles south to Brazil.  
*Ommatochila mundula* (Zeller 1872). Southern United States, Antilles south to Argentina.  
*Cobubatha metaspilaris* Walker 1863. Antilles.  
*Eumicremma minima* (Guenée 1852). Southern United States, Antilles south to Argentina.  
*Eublemma rectum* (Guenée 1852). Southern United States, Antilles south to Argentina.  
*Spragueia margana* (Fabricius 1794). Southern United States, the Neotropics.  
*Spragueia perstructana* (Walker 1865). Southern United States, Antilles south to Costa Rica.  
*Thioptera aurifere* (Walker [1858]). Southern United States, Antilles south to Brazil.

#### SARROTHRIPINAE

*Characoma nilotica* (Rogenhofer 1882). Pantropical.  
*Collomena filifera* (Walker 1857). Florida, Antilles south to Brazil.  
*Motya abseuzalis* Walker 1859. Florida, Antilles south to Brazil.

#### EUTELIINAE

*Paectes obrotunda* (Guenée 1852). Southern United States, Antilles south to Paraguay.

#### PLUSIINAE

*Pseudoplusia includens* (Walker [1858]). United States to northern Chile and Argentina.

#### CATOCALINAE

*Ptichodis immunita* (Guenée 1852). Mexico through the Antilles to Brazil.  
*Mocis latipes* (Guenée 1852). Southern United States, Antilles south to Argentina.  
*Mocis antillesia* Hampson 1913. Lesser Antilles, Bahamas.  
*Mocis repanda* (Fabricius 1794). Antilles, Guatemala.  
*Ophisma tropicalis* Guenée 1852. Southern United States, Antilles south to Argentina.

#### OPHIDERINAE

*Azeta versicolor* (Fabricius 1794). Neotropical.  
*Metallata absumens* (Walker 1862). Southern United States, Antilles south to Brazil.  
*Plusiodonta thomae* (Guenée 1852). Endemic to the Antilles.  
*Syllectra erycata* (Cramer 1780). Florida, Antilles south to Brazil.  
*Litoprosopus puncticosta* Hampson 1926. Haiti, Virgin Islands.  
*Diphthera festiva* (Fabricius 1775). Neotropical.  
*Gonodonta bidens* Geyer 1832. Florida, Antilles south to Argentina.  
*Melipotis acontioides* (Guenée 1852). Florida, Antilles south to Brazil.  
*Melipotis fasciolaris* (Hübner [1831]). Southern United States, Antilles south to Uruguay.  
*Melipotis contorta* (Guenée 1852). Florida, Antilles.  
*Melipotis famelica* (Guenée 1852). Southern United States, Antilles south to Venezuela.  
*Melipotis ochrodes* (Guenée 1852). Mexico through the Antilles to Brazil.  
*Melipotis januaris* (Guenée 1852). Southern United States, Antilles, northern South America.  
*Ascalapha odorata* (Linnaeus 1758). Pantropical.  
*Epidromia lienaris* (Hübner 1823). Neotropical.  
*Manbuta pyraliformis* (Walker 1858). Florida, Antilles.  
*Ephyrodes cacata* Guenée 1852. Southern United States, Antilles south to Colombia.  
*Concana mundissima* Walker [1858]. Florida, Antilles south to Brazil.  
*Massala asema* Hampson 1926. Antilles.  
*Lesmone formularis* (Geyer 1837). Neotropical.  
*Lesmone hinna* (Geyer 1837). Southern United States, Antilles south to Brazil.  
*Eulepidotis addens* (Walker 1858). Antilles.  
*Eulepidotis modestula* (Herrich-Schäffer 1869). Antilles.  
*Toxonprucha diffundens* (Walker 1858). Antilles south to Brazil.  
*Kakopoda progenies* (Guenée 1852). Florida, Antilles south to Brazil.  
*Parachabora abydas* (Herrich-Schäffer [1869]). Mexico through the Antilles to Brazil.

*Cecharismena abarusalis* (Walker 1859). Florida, Antilles south to Brazil.

*Cecharismena cara* Möschler 1890. Antilles.

*Glympis eubolialis* (Walker [1866]). Antilles.

#### HERMINIINAE

*Drepanopalpia lunifera* (Butler 1878). Antilles.

*Lascoria orneodalis* (Guenée 1854). Florida, Antilles.

*Bleptina hydrillalis* Guenée 1854. Southern United States, Central America, Antilles.

*Bleptina caradrinalis* Guenée 1854. Southern United States, Antilles south to Brazil.

*Bleptina menalcalalis* Walker [1859]. Antilles south to Venezuela.

*Bleptina araealis* (Hampson 1901). Antilles, Florida.

#### HYPENINAE

*Hypena lividalis* (Hübner 1790). Southern Palearctic, Pantropical.

*Hypena minualis* (Guenée 1854). Antilles south to Brazil.

#### ARCTIIDAE

##### ARCTIINAE

*Hypercompe simplex* (Walker 1855). Puerto Rican Bank, Lesser Antilles.

*Calidota strigosa* (Walker 1855). Antilles, Southern United States.

*Eupseudosoma involutum* (Sepp [1855]). Southern United States, Antilles south to Argentina.

*Utetheisa ornatix* (Linnaeus 1758). Southern United States, Antilles south to Argentina.

*Utetheisa pulchella* (Linnaeus 1758). Africa, Asia, the Neotropics.

##### PERICOPINAE

*Composia credula* (Fabricius 1775). Antilles, Puerto Rican Bank.

##### CTENUCHINAE

*Empyreuma pugione* (Linnaeus 1767). Restricted to the Puerto Rican Bank.

*Horama pretus* (Cramer 1777). Antilles.

*Horama panthalon* (Fabricius 1793). Southern United States, Antilles to southern Brazil.

*Cosmosoma achemon* (Fabricius 1781). Antilles south to Brazil.

*Eunomia colombina* (Fabricius 1793). Antilles.

*Nyridela chalciope* (Hübner [1831]). Antilles, Central America.

#### LITHOSIINAE

*Afrida charientisma* Dyar 1913. Antilles.

*Progonia pallida* (Möschler 1890). Puerto Rico.

*Lomuna nigripuncta* (Hampson 1900). Puerto Rico.

#### GEOMETRIDAE

##### OENOCHROMINAE

*Almodes terraria* Guenée [1858]. Southern United States, Antilles to Colombia.

##### ENNOMINAE

*Pero rectisectaria* (Herrich-Schäffer [1855]). Puerto Rican Bank, Lesser Antilles.

*Oxydia vesulia* (Cramer [1779]). Southern United States, Antilles south to Argentina.

*Erastria decrepitaria* (Hübner [1823]). Southern United States, Antilles south to Brazil.

*Sphacelodes fusilineatus* (Walker 1860). Antilles.

*Macaria paleolata* (Guenée [1858]). Antilles.

*Patalene ephyrata* (Guenée [1858]). Antilles.

*Cyclomia mopsaria* Guenée [1858]. Antilles south to Brazil.

##### GEOMETRINAE

*Eueana simplaria* Herbulot 1986. Guana, Guadeloupe.

*Phrudocentra centrifugarium* (Herrich-Schäffer 1870). Florida through the Greater Antilles to Puerto Rico.

*Chloropteryx paularia* (Möschler 1886). Florida, Antilles.

*Synchlora frondaria* (Guenée [1858]). United States, Antilles south to Argentina.

*Synchlora cupedinaria* (Grote 1880). Florida, Greater Antilles to Virgin Islands, Nevis.

## STERRHINAE

*Semaepus malefidarius* (Möschler 1890). Puerto Rican Bank.

*Leptostales noctuata* (Guenée [1858]). Antilles.

*Acratodes suavata* (Hulst 1900). Southern United States, Antilles.

*Lobocleta nymphidiata* (Guenée [1858]). Antilles.

*Scopula laesaria* Schaus 1940. Puerto Rican Bank.

*Idaea* sp., probably *Idaea fernaria* (Schaus 1940). Antilles.

"*Idaea*" *monata* (Forbes in Ramos [1947]). Antilles.

*Idaea minuta* (Schaus 1901). Antilles, United States.

*Idaea eupitheciata* (Guenée [1858]). Antilles.

*Leptostales phorcaria* (Guenée [1858]). Antilles.

*Leptostales oblinataria* Möschler 1890. Southern United States, Antilles to South America.

## LARENTIINAE

*Obila praecurraria* (Möschler 1890). Antilles.

*Pterocypha defensata* Walker 1862. Southern United States, Antilles.

## HYBLAEIDAE

*Hyblaea puera* species complex.

## COSSIDAE

*Psychonoctua personalis* Grote 1865. Antilles, Mexico.

## CRAMBIDAE

### CRAMBINAE

*Argyria diplomochalis* Dyar 1913. Puerto Rico.

*Donacoscaptes micralis* (Hampson 1919). Antilles.

*Fissicrambus fissiradiellus* (Walker 1863). Antilles, Panama, Colombia.

*Fissicrambus minuellus* (Walker 1863). Florida, Antilles, Central America.

*Microcrambus atristrigellus* (Hampson 1919). Jamaica.

## ODONTIINAE

*Cliniodes nomadalis* Dyar 1912. Central America, Antilles.

*Microtheoris ophionalis* (Walker 1859). Southern United States, Central America, Antilles.

*Mimoschinia rufofascialis* (Stephens 1834). Antilles.

## GLAPHYRIINAE

*Alatuncusia bergii* (Möschler 1891). Southern Florida, Antilles, perhaps South America.

*Chalcoela iphitalis* (Walker 1859). North America to Guatemala.

*Chalcoela pegasalis* (Walker 1859). North America, Antilles.

*Contortipalpia santiagalis* (Schaus 1920). Antilles.

*Dichogama amabilis* Möschler 1891. Southern Florida to Antilles.

*Dichogama innocua* (Fabricius 1793). Antilles, Central America.

*Dichogama redtenbacheri* Lederer 1863. Southern Florida, the Neotropics.

*Galphyria badierana* (Fabricius 1794). Antilles, Central America.

*Schacontia* new species Neotropical.

## EVERGESTINAE

*Evergestella evincalis* (Möschler 1891). Antilles, Florida Keys.

## PYRAUSTINAE

*Achyra bifidalis* (Fabricius 1794). Neotropical.

*Achyra rantalis* (Guenée 1854). New World.

*Arthromastix lauralis* (Walker 1859). Neotropical.

*Asciodes gordialis* Guenée 1854. Neotropical.

*Atomopteryx serpentifera* (Hampson 1913). Antilles.

*Bicilia iarchasalis* (Walker 1859). Neotropical.

*Cryptobotys zoilusalis* (Walker 1859). Neotropical.

*Desmia ufeus* (Cramer 1777). Neotropical.

*Diaphania costata* (Fabricius 1794). Antilles.

*Diaphania elegans* (Möschler 1890). Antilles, Central America.

- Diaphania hyalinata* (Linnaeus 1767). Neotropical.
- Diaphantania* species near *D. cerasalis* (Walker 1859). Antilles.
- Ennomosia basalis* (Hampson 1897). Antilles.
- Epicorsia cerata* (Fabricius 1795). Lesser Antilles.
- Epipagis algarrobolis* (Schaus 1940). Lesser Antilles.
- Ercta vittata* (Fabricius 1794). Neotropical.
- Eulepte gastralis* (Guenée 1854). Antilles.
- Glyphodes sibillalis* Walker 1859. Neotropical.
- Herpetogramma bipunctalis* (Fabricius 1794). Neotropical.
- Herpetogramma phaeopteralis* (Guenée 1854). Neotropical.
- Loxomorpha cambogialis* (Guenée 1854). Neotropical.
- Marasmia cochrusalis* (Walker 1859). Neotropical.
- Marasmia* sp. Virgin Islands.
- Microthyris anormalis* (Guenée 1854). Neotropical.
- Oenobotys vinotinctalis* (Hampson 1895). Neotropical.
- Omiodes albicinctalis* (Hampson 1904). Antilles.
- Omiodes indicata* (Fabricius 1775). Pantropical.
- Palpita flegia* (Cramer 1777). Neotropical.
- Palpita persmilis* Munroe 1959. Neotropical.
- Palpita viettei* Munroe 1959. Neotropical.
- Palpusia* species near *P. eurypalpalis* (Hampson 1912).
- Phaedropsis principaloides* (Möschler 1890). Antilles.
- Portentomorpha xanthialis* (Guenée 1854). Neotropical.
- Pseudopyrausta minima* (Hedemann 1894). Lesser Antilles.
- Pyrausta insignitalis* (Guenée 1854). Lesser Antilles.
- Pyrausta laresalis* Schaus 1940. Lesser Antilles.
- Samea ecclesialis* Guenée 1854. Antilles.
- Sathria onophasalis* (Walker 1859). Antilles.
- Spoladea recurvalis* (Fabricius 1775). Pantropical.
- Steniodes mendica* (Hedemann 1894). Antilles.
- Synclera jarbusalis* (Walker 1859). Antilles.
- Syngamia florella* (Stoll 1781). Neotropical.
- Uresiphita reversalis* (Guenée 1854). Neotropical.

## PYRALIDAE

### PYRALINAE

*Ocrasa nostralis* (Walker 1854). Pantropical.

### CHRYSAUGINAE

- Bonchis munitalis* (Lederer 1863). Neotropical.
- Murgisca subductella* (Möschler 1890). Lesser Antilles.
- Streptopalpia minusculalis* (Möschler 1890). Neotropical.

### GALLERIINAE

- Pogrima palmasalis* Schaus 1940. Antilles.
- Thyridopyralis gallaerandialis* Dyar 1901. Florida.

### EIPASCHIINAE

- Phidotricha erigens* Ragonot 1888. Antilles, Central America.
- Phidotricha insularella* (Ragonot 1888). Antilles, Central America.
- Tineopaschia minuta* Hampson 1916. Antilles.

### PHYCITINAE

- Anabasis ochrodesma* (Zeller 1881). Southeast United States to northern South America.
- Ancylostomia stercorea* (Zeller 1848). Neotropical.
- Australephesiodes stictella* (Hampson 1901). Antilles.
- Bema neuricella* (Zeller 1848). Neotropical.
- Cactoblastis cactorum* (Berg 1885). Native to southern South America, now widespread because of biological control introductions.
- Cassiana malacella* (Dyar 1914). Mexico.
- Crocidomera fissuralis* (Walker 1863). Hispaniola, Puerto Rico.
- Ectomyelois decolor* (Zeller 1881). Antilles, Central America, South America.

*Ereliovia quantulella* (Hulst 1887). United States, Antilles.

*Etiella zinckenella* (Treitschke 1832). Cosmopolitan.

*Eurythmia hospitelletta* (Zeller 1875). United States.

*Fundella argentina* Dyar 1919. Neotropical.

*Hypargyria definitella* (Zeller 1881). Neotropical.

*Oryctometopia fossulatella* Ragonot 1888. Texas, Antilles, Central America to Brazil.

*Ozamia lucidalis* (Walker 1863). Neotropical.

*Sarasota furculella* (Dyar 1919). Antilles.

*Unadilla erronella* (Zeller 1881). Neotropical.

*Zamagiria laidion* (Zeller 1881). Neotropical.

*Adania thomae* (Zeller 1877). Antilles, South America.

*Exelastis cervinicolor* (Barnes & McDunnough 1913). Florida, Antilles, Galápagos.

*Exelastis pumilio* (Zeller 1873). Neotropical.

*Lantanophaga pusillidactyla* (Walker 1864). Pantropical.

*Megalorrhypida defectalis* (Walker 1864). Pantropical.

There are literally hundreds of additional species of moths we have collected on Guana Island. They are generally small species informally lumped together as "microlepidoptera." Sorting them out is taking decades. Meanwhile Davis (1986) clarified the taxonomic status of just one of them in family Tineidae: *Acrolophus triatomellus*.

## PTEROPHORIDAE

*Adania ambrosiae* (Murtfeldt 1880). North America, Antilles, Galápagos.

# ISLAND

*Fact and Theory in Nature*

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James Lazell

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